

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549**

**Confidential Draft Submission No. 3
FORM S-1
REGISTRATION STATEMENT
UNDER
THE SECURITIES ACT OF 1933**

Atlas Energy Solutions Inc.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction
of incorporation or organization)

1400
(Primary Standard Industrial
Classification Code Number)

88-0523830
(I.R.S. Employer
Identification No.)

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(Address, including zip code, and telephone number, including area code, of registrant's principal executive offices)

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Approximate date of commencement of proposed sale to the public:

As soon as practicable after the effective date of this registration statement.

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933 check the following box:

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(d) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer	<input type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input checked="" type="checkbox"/>	Smaller reporting company	<input type="checkbox"/>
		Emerging growth company	<input checked="" type="checkbox"/>

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 7(a)(2)(B) of the Securities Act.

The registrant hereby amends this registration statement on such date or dates as may be necessary to delay its effective date until the registrant shall file a further amendment which specifically states that this registration statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933, as amended, or until this registration statement shall become effective on such date as the U.S. Securities and Exchange Commission, acting pursuant to said Section 8(a), may determine.

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The information in this prospectus is not complete and may be changed. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This prospectus is not an offer to sell these securities, and it is not soliciting an offer to buy these securities in any state or jurisdiction where the offer or sale is not permitted.

SUBJECT TO COMPLETION, DATED _____, 2022

Shares

Atlas Energy Solutions Inc.

Class A Common Stock

This is the initial public offering of our Class A common stock. We are offering _____ shares of our Class A common stock.

Prior to this offering, there has been no public market for our Class A common stock. It is currently anticipated that the initial public offering price for our Class A common stock will be between \$ _____ and \$ _____ per share. We intend to apply to list our Class A common stock on the New York Stock Exchange (the "NYSE") under the symbol "AESI."

We are an "emerging growth company" as the term is used in the Jumpstart Our Business Startups Act of 2012 and, as such, are eligible for reduced reporting requirements. Please see the section titled "Risk Factors" and "Summary—Emerging Growth Company Status."

Investing in our Class A common stock involves risks. See "[Risk Factors](#)" beginning on page 32 to read about factors you should consider before investing in our Class A common stock.

Neither the U.S. Securities and Exchange Commission ("SEC") nor any state securities commission has approved or disapproved of these securities or passed upon the adequacy or accuracy of this prospectus. Any representation to the contrary is a criminal offense.

	Per Share	Total
Initial public offering price(1)	\$ _____	\$ _____
Underwriting discounts and commissions(2)	\$ _____	\$ _____
Proceeds, before expenses, to Atlas Energy Solutions Inc.	\$ _____	\$ _____

- (1) The public offering price for the shares sold to the public was \$ _____ per share.
- (2) See "Underwriting" for information relating to underwriting compensation, including certain expenses of the underwriters to be reimbursed by us.

The underwriters will have an option to purchase, exercisable within 30 days from the date of this prospectus, a maximum of _____ additional shares of our Class A common stock from us, at the initial price to public less the underwriting discount and commissions.

The underwriters expect to deliver the shares of Class A common stock against payment in New York, New York on _____, 2022.

Goldman Sachs & Co. LLC

BofA Securities

Piper Sandler

Prospectus dated _____, 2022.

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Neither we nor the underwriters have authorized anyone to provide you with information different from that contained in this prospectus and any free writing prospectus we have prepared. We take no responsibility for, and can provide no assurance as to the reliability of, any other information that others may give you. We and the underwriters are offering to sell shares of Class A common stock and seeking offers to buy shares of Class A common stock only in jurisdictions where offers and sales are permitted. The information in this prospectus is accurate only as of the date of this prospectus, regardless of the time of any sale of the Class A common stock. Our business, liquidity position, financial condition, prospects or results of operations may have changed since the date of this prospectus.

This prospectus contains forward-looking statements that are subject to a number of risks and uncertainties, many of which are beyond our control. See the sections titled "Risk Factors" and "Cautionary Note Regarding Forward-Looking Statements."

BASIS OF PRESENTATION

Unless otherwise indicated, the historical financial information presented in this prospectus is that of Atlas Sand Company, LLC (“Atlas LLC”), our “Predecessor” for financial reporting purposes. Further, the financial information and certain other information presented in this prospectus have been rounded to the nearest whole number or the nearest decimal. Therefore, the sum of the numbers in a column may not conform exactly to the total figure given for that column in certain tables in this prospectus. In addition, certain percentages presented in this prospectus reflect calculations based upon the underlying information prior to rounding and, accordingly, may not conform exactly to the percentages that would be derived if the relevant calculations were based upon the rounded numbers or may not sum due to rounding.

INDUSTRY AND MARKET DATA

This prospectus includes industry data and forecasts that we obtained from a variety of sources, including independent publications, government publications and publicly available information, as well as our good faith estimates, which have been derived from management’s knowledge and experience in the industry in which we operate. Although we believe that these third-party sources are reliable, we have not independently verified the data obtained from these sources and we cannot assure you of the accuracy or completeness of the data. Forecasts and other forward-looking information obtained from these sources are subject to the same qualifications and uncertainties as the other forward-looking statements in this prospectus.

The market data regarding supply and demand is difficult to quantify, as the proppant industry continues to evolve and many market participants are privately held, making accurate estimates of supply capacity and market demand difficult to qualify. While we are not aware of any misstatements regarding the market, industry or similar data presented herein, such data involves risks and uncertainties and are subject to change based on various factors, including those discussed in the sections titled “Cautionary Note Regarding Forward-Looking Statements” and “Risk Factors” in this prospectus. Please read the section titled “Industry” for additional information on the proppant industry.

TRADEMARKS AND TRADE NAMES

We own or have rights to various trademarks, service marks and trade names that we use in connection with the operation of our business. This prospectus may also contain trademarks, service marks and trade names of third parties, which are the property of their respective owners. Our use or display of third parties’ trademarks, service marks, trade names or products in this prospectus is not intended to, and does not imply, a relationship with, or endorsement or sponsorship by, us. Solely for convenience, the trademarks, service marks and trade names referred to in this prospectus may appear without the ®, TM or SM symbols, but the omission of such references is not intended to indicate, in any way, that we will not assert, to the fullest extent under applicable law, our rights or the right of the applicable owner of these trademarks, service marks and trade names.

SUMMARY

This summary highlights information contained elsewhere in this prospectus. This summary does not contain all of the information that you should consider before investing in our Class A common stock. You should read the entire prospectus carefully, including the information under the sections titled "Risk Factors," "Cautionary Note Regarding Forward-Looking Statements" and "Management's Discussion and Analysis of Financial Condition and Results of Operations," and the financial statements and the notes thereto appearing elsewhere in this prospectus. The information presented in this prospectus assumes (i) an initial public offering price of \$ _____ per share (the midpoint of the price range set forth on the cover page of this prospectus) and, unless otherwise indicated, (ii) that the underwriters do not exercise their option to purchase additional shares of our Class A common stock.

Unless we state otherwise or the context otherwise requires, the terms "Company," "Atlas," "we," "us" or "our" refer, prior to the corporate reorganization described in this prospectus, to Atlas LLC and its consolidated subsidiaries, and following the corporate reorganization described in this prospectus, to Atlas Energy Solutions Inc. and its consolidated subsidiaries. We have provided definitions for some of the terms we use to describe our business and industry and other terms used in this prospectus in the "Glossary of Certain Industry Terms" beginning on page A-1 of this prospectus.

The information appearing in this prospectus concerning estimates of our mineral reserves is based on the report of John T. Boyd Company, our independent mining engineers and geologists. A summary of John T. Boyd Company's report is included as an exhibit to the registration statement of which this prospectus forms a part.

Atlas Energy Solutions Inc.

Overview

We are an innovation-focused leading provider of proppant and logistics services to customers engaged in the oil and natural gas industry within the Permian Basin of West Texas and New Mexico, the most active basin in North America by rig count. Our core mission and key focus is to create a best-in-class value proposition for our stockholders by generating strong free cash flow, regularly returning capital to investors, reinvesting selectively to drive growth and maintaining a strong balance sheet to ensure our financial health throughout our industry's cycles. We aim to accomplish our mission and capitalize on our strategic advantages through the use of differentiated and innovative techniques and technologies to develop our high-quality and uniquely positioned resource base.

Our Company

We were founded in 2017 by Ben ("Bud") Brigham, our Executive Chairman, and are led by an experienced team of entrepreneurs from the oil and natural gas, transportation, industrial and proppant industries who have an established history of value creation and positive disruption in the energy industry. Our executive management team has over 75 years of combined industry experience and a history of generating positive returns, exemplified by Bud Brigham's significant experience leading companies such as Brigham Exploration Company ("Brigham Exploration"), Brigham Resources Operating, LLC ("Brigham Resources") and Brigham Minerals, Inc. ("Brigham Minerals") through a successful initial public offering ("IPO"), or an acquisition event. We believe this experience and our associated knowledge base differentiates us from our competitors and facilitates our ability to identify and execute as an early mover on critical value drivers, helping us to maximize the full potential of our business and outcomes for our stockholders. We have increased the volume of proppant sold every year since our inception.

We have assembled the sand mining rights associated with approximately 38,000 acres in the Permian Basin sand fairway (the “Winkler Sand Trend”) located in Winkler and Ward Counties, Texas, which are logistically well positioned to serve the entire Permian Basin. We control 14,575 acres of large open-dune reserves and resources, which represent more than 70% of the large open-dune acreage in the Winkler Sand Trend that is available for sand mining, making us the primary producer of proppant from the large open-dune deposits inside the Winkler Sand Trend. Large open-dune reserves accounted for 100% of our produced volumes for the three months ended March 31, 2022 and the year ended December 31, 2021. As the reserves of these large open dunes have not been subjected to the same degree of soil development, organics and impurities as buried sand deposits, they tend to produce better yields relative to buried sand deposits. Large open-dune reserves have also been proven to produce a higher-quality product (as measured by tests of crush strength, turbidity, etc.) more efficiently and with a smaller environmental footprint as compared to buried sand reserves throughout the Permian Basin.

Based on our current total annual production capacity of approximately 10.0 million tons, our properties have an aggregate expected reserve life of approximately 37 years based on the currently defined mineral reserves, with a potential extension of our reserve life to over _____ years based on our total mineral resources. The difference between our proved or probable reserves and measured, indicated and inferred resources is primarily attributable to limitations on proved or probable reserve booking based on the density of core sample spacing, development timing and other factors considered by our independent mining engineers and geologists. We have taken core samples across the entirety of our acreage position and the geologic homogeneity of those samples lead us to believe that substantial economic reserves of the same quality of our proved or probable reserves exist throughout; these core samples were taken with spacing ranging from 1,000 to 8,000 feet while the proved and probable reserve spacing standards utilized by our independent mining engineers and geologists, John T. Boyd Company, is less than or equal to 1,500 foot spacing for proven reserves and measured resources, 1,500 to 2,500 foot spacing for probable reserves and indicated resources, and 2,500 to 5,000 foot spacing for inferred resources. As a result of the consistency of the samples across our acreage, we anticipate a reclassification of resources to proven or probable reserves over time as we expand our mining operations and execute with tighter infill sampling. Please see the risk captioned under “Risk Factors—Risks Related to Our Business and Operations—*Inaccuracies in our estimates of sand reserves and resource deposits, or deficiencies in our title to those deposits, could result in our inability to mine the deposits or require us to pay higher than expected costs.*”

We were an early disruptor of the legacy Permian Basin proppant supply chain through the development of our in-basin sand resource. In-basin sand provides Permian Basin end-users with a logistically superior alternative to out-of-basin sand, shortening the supply chain and eliminating the need for rail transportation, transload storage, long truck hauls and other related costs, risks and inefficiencies. This disruption correspondingly provides economic and environmental benefits, including a significant reduction in emissions (for example, we estimate that shipping our annual capacity of 10 mmtpy by rail from Eau Claire, WI to wellsites in the Permian Basin through Pecos, TX transload would generate an estimated additional 200,000 metric tonnes of CO₂e as compared to shipping that product from our local facilities). Since our founding, we have continued to innovate in order to benefit our stockholders, our customers and the communities we operate in through enhanced efficiency, productivity and environmental benefits. In 2020, we became the first proppant producer in the Permian Basin to engage in electric dredging in an open reservoir (“e-mining”) at both of our plants, which we estimate has reduced our costs significantly and our estimated emissions related to mining activities by approximately half as compared to traditional mining. Our ongoing significant innovation projects include:

- **Dune Express Conveyor:** The Dune Express conveyor project, which will originate at our Kermit facility and stretch into the middle of the Northern Delaware Basin, will be the first

long-haul proppant conveyor system in the world and will facilitate the delivery of proppant to the Delaware Basin. See the subsection titled “—Growth and Technology Initiatives—Dune Express” below for additional information regarding the Dune Express.

- **Autonomous Trucking:** We have partnered with a leading technology provider with assets in the field of GPS-denied off-road applications alongside established equipment OEMs and expect to begin receiving deliveries of vehicles in the first quarter of 2023 with off-road platooning automation beginning in mid-2023, and deliveries of fully automated vehicles targeted to begin in 2025. See the subsection titled “—Growth and Technology Initiatives—Autonomous Trucking” below for additional information regarding our autonomous trucking initiatives.

Together, we believe these initiatives could have a significant impact in driving future revenue and increasing cash flow, reducing emissions, improving safety and relieving traffic and other burdens produced by the existing means of last-mile delivery.

Our organizational structure following the offering and corporate reorganization is commonly referred to as an umbrella partnership-C corporation (or “Up-C”) structure. Pursuant to this structure, following this offering we will hold a number of Atlas Units (as defined below) equal to the number of shares of Class A common stock issued and outstanding, and holders of Atlas Units (each, an “Atlas Unitholder”) (other than us) will hold a number of Atlas Units equal to the number of shares of Class B common stock issued and outstanding. The Up-C structure was selected in order to (i) allow certain Legacy Owners the option to continue to hold their economic ownership in Atlas LLC in “pass-through” form for U.S. federal income tax purposes through their ownership of Atlas Units, and (ii) potentially allow us to benefit from certain net cash tax savings that we might realize as a result of certain increases in tax basis that may occur as a result of Atlas Inc.’s acquisition (or deemed acquisition for U.S. federal income tax purposes) of Atlas Units pursuant to the exercise of the Redemption Right (as defined below) or the Call Right (as defined below).

Value Proposition to Our Stockholders

Our ability to generate free cash flow is paramount to our value proposition, as it correlates to our ability to regularly return capital to our stockholders. We have experienced significant growth in net income, Adjusted EBITDA, net cash provided by operating activities and Adjusted Free Cash Flow since January 2021, as oil and natural gas prices have improved, and the proppant market has tightened. For the three months ended March 31, 2022, we generated \$20.8 million in net income, \$31.0 million in Adjusted EBITDA, \$23.7 million in net cash provided by operating activities and \$22.3 million in Adjusted Free Cash Flow (representing an Adjusted EBITDA Margin of 51.8% and an Adjusted Free Cash Flow Margin of 37.3%). For the year ended December 31, 2021, we generated \$4.3 million in net income, \$72.0 million in Adjusted EBITDA, \$21.4 million in net cash provided by operating activities and \$64.2 million in Adjusted Free Cash Flow (representing an Adjusted EBITDA Margin of 41.7% and an Adjusted Free Cash Flow Margin of 37.3%). Please see the subsection titled “—Summary Historical and Pro Forma Financial and Operating Data—Non-GAAP Financial Measures” for more information. While improved market prices for proppant lead to improvements in measures of our performance, including those detailed above, our low and flexible operating cost structure also contributes materially to our ability to generate Adjusted Free Cash Flow. We have driven significant improvements in our costs of sales on a per ton basis since the commencement of our operations in 2018.

Value Proposition to Our Community and Stakeholders

We have a long history of being good stewards of not only stockholder capital but also of the environments and communities in which we live and operate. Our core obligation is to our stockholders, and we recognize that maximizing value for our stockholders requires that we optimize the outcomes for our broader stakeholders, including our employees, as well as the communities and the environments in which we operate. As a result, we deliver leadership across all aspects of Environmental, Social and Governance (“ESG”) matters. Our aptitude on ESG matters benefits from our commitment to identifying and executing upon opportunities to transform our business which enhance our growth and profitability through the implementation of new technologies.

Environmental

To our knowledge, we are the only proppant producer in the Permian Basin that engages in e-mining, which generates materially lower emissions than traditional sand mining. The electric dredge process at both of our Kermit and Monahans facilities exemplifies the alignment of both our operational and ESG leadership, as this process has materially improved safety and, based on our estimates, reduced emissions by approximately 50% versus traditional sand mining methods due to the significant reduction in diesel fuel usage required to mine sand traditionally, partially offset by increased electricity consumption from our dredges. Our proppant production process also leads to less surface area mined per ton of sand produced as we mine to greater depth as compared to mining associated with buried sand deposits, and therefore, results in less environmental disturbance.

Our large open-dune reserves, paired with the replenishing water sources from our acreage’s in-ground aquifers, are the key reasons why we are able to adopt a technology normally reserved for use in rivers and other bodies of water for use in the desert of West Texas. Our reserves benefit from a naturally occurring water table near the surface of our mines, which is unique in the Winkler Sand Trend and provides an ample natural supply of costless water for dredge and wash plant operations while minimizing the impact on regional aquifers.

Additionally, the results of a study commissioned by us with the Texas A&M Transportation Institute, an independent research agency (the “Transportation Study”), when integrated with our management’s internal analysis, support our estimate that our planned Dune Express sand conveyor system could significantly reduce emissions that would otherwise be produced by trucking-related activities associated with the delivery of proppant from the mines of Permian Basin providers to end users. Our estimates project that the system will result in an approximate 70% reduction in carbon dioxide emissions and other emissions, including pollutants that are harmful to humans. See the subsection titled “—Growth and Technology Initiatives—Dune Express” below for additional information regarding the Dune Express project.

The graphic below summarizes our estimates of the percentage reduction in the truck miles driven and associated emissions and emission costs attributable to the anticipated operation of our inaugural Dune Express conveyor system as compared to current, traditional practices.



Our management team has been proactive with respect to the protection of the dunes sagebrush lizard (“DSL”) and its habitat in an effort to reduce the risk that our business and operations will be materially interrupted in the event that the DSL is listed under the Endangered Species Act (“ESA”). We have adopted numerous best practices to promote active conservation measures for the benefit of the DSL, including our identification of up to 17,000 acres of land for potential set asides, our pursuit of more environmentally friendly mining practices and our participation in the Candidate Conservation Agreement with Assurances (“CCAA”) for the DSL. See the subsection titled “—Competitive Strengths—Proactive approach to the well-being of the environment and our employees” below. In January 2021, the CCAA was approved by the U.S. Fish and Wildlife Service (“USFWS”) to provide a framework for entry into voluntary conservation agreements between the USFWS and stakeholder participants, under which the parties work together to identify threats to the DSL, design and implement conservation measures to address these threats and monitor their effectiveness, among other things. Atlas has been a supporter of the CCAA since its inception and was the first proppant producer to apply for a permit under, and be accepted into, the CCAA. Due to our participation in the CCAA and other conservation measures that we have voluntarily adopted, we do not anticipate that a listing of the DSL as an endangered species would materially reduce sand production at our Kermit and Monahans facilities. We are currently only one of three companies participating in the CCAA. In the event that the DSL is listed as an endangered species under the ESA, it is possible that companies that are not participants in the CCAA at the time of a future ESA listing would see a disruption to their operations.

Social

We have committed to fostering a safe environment at our worksites and we are committed to extending this culture of safety far beyond our premises. We have a rigorous safety training program with well-developed protocols. We have automated or have invested in remote operations technology to substantially reduce the amount of the activities at the plant sites that require physical interaction between human beings and industrial equipment, and in doing so have removed many of the safety hazards at our facilities.

We anticipate that our planned Dune Express project will provide significant environmental benefits, while also benefitting the surrounding region, making it a safer place to live and work. Our management’s analysis of the results of the Transportation Study supports our expectation that the Dune Express will contribute to a meaningful reduction in Permian Basin traffic accidents, congestion and automobile fatalities, by taking trucks off public roads and operating in a much more efficient manner than the industry has historically operated. We believe this will also benefit the community by reducing the wear and tear on local infrastructure, while making the region a safer and better place to

live and work. Furthermore, by reducing the number of drivers needed per well and in the aggregate, these initiatives can meaningfully reduce trucking-related hazards on customer wellsites and mitigate future driver shortages.

The graphic below summarizes our estimates of the percentage reduction in the truck miles driven and associated traffic accidents, traffic fatalities and average truck drivers needed per Permian Basin wellsite that is attributable to the anticipated operation of our inaugural Dune Express conveyor system as compared to traditional practices.



We are actively engaged in the West Texas community in which we operate, as we believe that by supporting our community, our community will support us. We sponsor a number of programs benefitting schools and the youth in Winkler and Ward Counties, Texas, including supporting after-school programs for children and skill-development programs for high school students.

Our Company's culture is a product of our employees, and as such, we embrace the responsibility of promoting a diverse and inclusive meritocracy, with over 60% minority and/or female representation in our workforce as of March 31, 2022. We reward the hard work of our employees by compensating them well, with our median employee earning in excess of \$100,000 per year as of 2021. Furthermore, we provide our employees with a high-quality benefits package including full family medical, dental and vision insurance, a company 401(k) match program and substantial paid time off or rotational schedules. For our employees in West Texas, we provide convenient, safe and comfortable living facilities at Wyatt's Lodge, our distinctive alternative to the traditional, notoriously unsafe and unsanitary housing accommodations provided for many oilfield employees. Wyatt's Lodge provides employees with fully furnished housing, a full cafeteria with a chef and a diverse menu including healthy options, a workout facility, as well as a recreational room and a movie theater. The success of our efforts to create a high-quality workplace is evidenced by our low employee turnover and accolades that include the "Great Place to Work" certification from the Great Place to Work Institute, Inc. for the years ended December 31, 2019, 2020 and 2021, as well as the "Top Work Places" Award of Recognition from Austin American-Statesman for the year ended December 31, 2021.

We believe that the men and women who have served in the United States armed forces have earned a special place in our society. As such, at our founding we created a dedicated effort to support our veterans in our hiring. We have found our focus on recruiting veterans to work for Atlas has brought us many hardworking and outstanding employees over the years and has positively influenced our corporate values. We have received external recognition for our veteran hiring practices, including the Hire Vets Medallion from the U.S. Department of Labor ("DOL") in 2019, 2020 and 2021. As of March 31, 2022, 11% of our employees served in the U.S. military as compared to an average of 5.6% across all employers nationally.

Governance

We believe that the alignment of our employees, our management and our board of directors with our stockholders is paramount. A few examples of the actions that we will take in connection with this offering or the characteristics that highlight the alignment of interests between our management and stockholders are as follows:

- We will establish a diverse and independent board with complementary skills and backgrounds.
- We will adopt an executive compensation program that encourages return of capital to stockholders, including through the use of performance-based compensation, with performance metrics that focus business strategy and corporate objectives on total shareholder return, and equity-based long-term incentives.
- We will adopt a director compensation policy for our non-employee directors in which a significant portion of the total compensation package is equity-based to further align the interests of our directors with our stockholders.
- Management will maintain significant initial ownership in the Company after completion of this offering.

Management and Historical Successes

We were founded by Bud Brigham, our Executive Chairman, and are led by an experienced team of entrepreneurs from oil and natural gas, transportation, industrial and proppant industry backgrounds. We believe our management team's deep industry experience, record of successful value creation and established history as entrepreneurs and positive disruptors in the energy industry are unique advantages that enable us to continually identify critical value-creation drivers that will allow us to maximize the full potential of our business and the outcomes for our stockholders and stakeholders alike. However, past performance of our management team, our directors or their affiliates is not a guarantee of our future success or similar results. You should not rely on the historical record of our management team, our directors or their affiliates as indicative of the future performance of an investment in us or the returns we will, or are likely to, generate going forward.

Brigham Exploration

Prior to founding Atlas LLC, Bud Brigham founded Brigham Exploration, a positive disruptor and innovator in the exploration and production ("E&P") space. Brigham Exploration was an early pioneer in 3-D seismic exploration onshore, and went public in 1997. In subsequent years, Bud oversaw the identification, acquisition, delineation and development of approximately 375,000 net acres in the Williston Basin. Brigham Exploration established itself as a leading innovator in horizontal drilling and fracking, as well as oil, gas and water gathering and distribution. The company delivered industry leading operational and economic performance, leading up to Brigham Exploration's sale to Statoil ASA ("Statoil") in December 2011 for an enterprise value of \$4.7 billion.

Brigham Resources

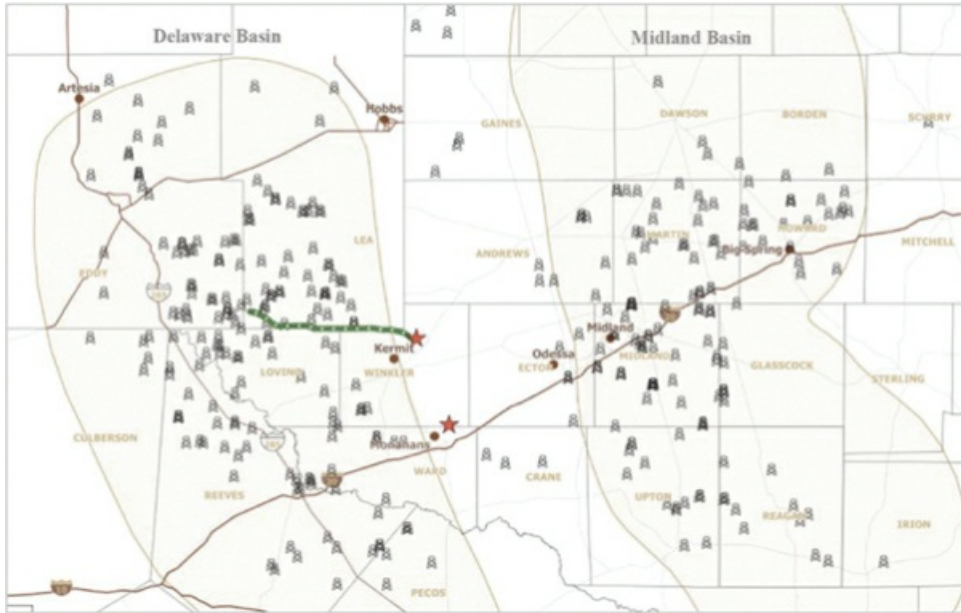
Immediately following the sale of Brigham Exploration, Bud Brigham and others from the Brigham Exploration management team founded Brigham Resources and executed on similar strategies in the Southern Delaware Basin in West Texas. By applying rigorous geologic evaluation criteria, Brigham Resources was an early entrant in the Southern Delaware Basin in Pecos County, Texas, where it assembled an approximately 80,185 net acre leasehold position in a largely contiguous block. Like its predecessor, Brigham Resources again was a leading innovator in the play, generating significant enhancements in operational and economic performance, prior to selling its assets to Diamondback Energy, Inc. ("Diamondback") in February 2017 for approximately \$2.6 billion.

Brigham Minerals

In addition, in 2012, Bud Brigham and other members of his management team founded Brigham Minerals, a mineral acquisition company that leverages its knowledge base and experience to acquire mineral ownership in top-tier liquids rich domestic resource plays. Subsequent to its rapid growth as a private enterprise, Brigham Minerals' management executed an upsized \$300 million IPO in April 2019. As of March 31, 2022, Brigham Minerals actively manages a portfolio of approximately 93,465 net royalty acres across 36 counties within the Delaware and Midland Basins in West Texas and New Mexico, the SCOOP/STACK plays in the Anadarko Basin of Oklahoma, the Denver-Julesburg Basin in Colorado and Wyoming and the Williston Basin in North Dakota.

Assets and Operations

We presently operate our Kermit and Monahans facilities in Winkler and Ward Counties, Texas. The following map shows the location of both facilities, as well as the secured right-of-way for the Dune Express conveyor system alongside a recent snapshot of the rig count in the Permian Basin as of June 3, 2022:



We currently control the largest and, we believe, the highest quality sand position in West Texas. We have developed our Kermit and Monahans facilities as in-basin frac sand mines on approximately 38,000 surface acres that we own or lease in Winkler and Ward Counties, Texas. We control 14,575 acres of large open-dune reserves and resources, which represent more than 70% of the open-dune acreage in the Winkler Sand Trend available for sand mining. The Monahans Dune consists of approximately 8,750 acres of premium open-dune reserves. Additionally, we have substantial off-dune acreage at Monahans that is not included in our estimated reserves or resources but that could be mined following our removal of material, such as soil and unusable sand, that lies above the useable

sand and must be removed to excavate the useable sand, which we refer to as “overburden.” The Kermit Dune consists of approximately 5,825 acres of premium open-dune reserves.

Our “twin” mines, located on the bookends of the Winkler Sand Trend, provide optimal logistics to serve both the Southern and Northern portions of the Delaware and Midland Basins and, as of March 31, 2022, have a combined annual production capacity of 10.0 million tons, 70,000 tons of dry storage, 700,000 tons of wet storage and 14 loadout lanes. Independent testing by Proptester indicates that the sand produced from our mines is the highest quality of all Permian Basin sand producers. Innovative plant design and large-scale operations ensure low-cost operations and continuity on site. Redundancies were designed into our facilities to remove singular points of failure that can disrupt the production process, ensuring maximum reliability of proppant production and delivery.

Additionally, the size and depth of our large open-dune reserves provides us with a distinct advantage relative to our competitors, including the fact that in the Winkler Sand Trend we uniquely benefit from a naturally occurring water table near the surface of our deposit, providing an ample natural supply and costless water for dredge and wash plant operations, while minimizing the impact on regional aquifers. The size, scale, quality, cost and reduced environmental impact associated with mining the two large open dunes in the Winkler Sand Trend positively differentiates us relative to our competition.

Our Kermit and Monahans facilities were built to produce high quality 40/70-mesh and 100-mesh sands, each of which are used extensively in upstream operations in the Permian Basin. As of March 31, 2022, each facility is in the production stage and capable of producing approximately 5.0 million tons of sand annually for a combined annual production capacity of approximately 10.0 million tons, and each facility was constructed with a modular design that provides us with the flexibility to expand one or both of the existing facilities to achieve incremental production capacity if such expansion were found to be necessary or desirable in light of customer demand, broader market conditions or other relevant considerations. The facilities are capable of operating year-round and feature advanced safety designs, onsite water supply, power infrastructure and access to low-cost natural gas through connections to interstate natural gas lines. Further, we strategically benefit from the locations of our facilities proximal to major highways at the south and north ends of the Winkler Sand Trend. Our Kermit facility is bisected by two state highways, while our Monahans facility is adjacent to two highways, one of which is Interstate 20, facilitating efficient transportation of our proppant to customers located at various points within the Permian Basin.

The operations of both sand facilities are managed and monitored in a highly automated manner from our command center in Austin, Texas. We have designed and/or adopted cutting-edge technology that we believe delivers one of the most efficient production and truck loading processes in the industry. This facility-wide ecosystem is comprised of live data and video feeds, two-way video calling at potential customer touchpoints, process control monitoring and RFID technology that work seamlessly together. The remote ecosystem allows our employees to simultaneously manage processes at both facilities, resulting in significant personnel productivity gains.

As of December 31, 2021, we had 368 million tons of proven and probable sand reserves at our Kermit and Monahans facilities according to estimates by John T. Boyd Company, our independent mining engineers and geologists. Based on our total annual expected production capacity of approximately 10.0 million tons as of December 31, 2021, our reserve life is expected to be approximately 37 years. As of December 31, 2021, our reserves are composed of approximately 58% 40/70-mesh and 42% 70/140-mesh substrate sand. We believe our reserve composition is attractive to customers that want to consolidate sourcing and positions us as a go-to provider of high quality in-basin proppant.

The following table provides the tonnage and mesh size characteristics of the proven and probable reserves at our Kermit and Monahans facilities as of December 31, 2021, based on \$30.00 per ton.

Facility	Tons By Classification and Mesh Size (In thousands)								
	Proven Mineral Reserves			Probable Mineral Reserves			Total Mineral Reserves		
	40/70	70/140	Total	40/70	70/140	Total	40/70	70/140	Total
Kermit	107,535	85,650	193,185	2,599	2,232	4,831	110,134	87,882	198,016
Monahans	71,886	46,739	118,625	32,041	19,057	51,098	103,927	65,796	169,723
Total	179,421	132,389	311,810	34,640	21,289	55,929	214,061	153,678	367,739

The following tables set forth the mineral resource estimates, exclusive of mineral reserves, associated with our Kermit and Monahans facilities as of December 31, 2021. Since the commissioning of our wet plants in 2018 through the end of 2021, the actual process yields for both plants is approximately 90%. In general, for every 100 tons of run-of-mine ("ROM") material fed into the plant, 90 tons of saleable product is produced. It should be noted that these actual process yields are slightly different than the overall process yields used to estimate our mineral reserves and our mineral resources. Our mineral reserve estimates utilized the average of all of the core-hole laboratory analysis data for each of our Kermit and Monahans facilities, respectively.

Kermit Facility						
Resource Category	Acres	Average Sand Thickness (ft)	Estimated In-Place Frac Sand Tons (In thousands)			
			Owned	Leased	Adverse	Total
Measured	65		—	9,700	—	9,700
Indicated	603		—	95,390	—	95,390
Measured + Indicated	668		—	105,090	—	105,090
Inferred	1,719		38,904	197,750	56,636	293,290
Total	2,387	79	38,904	302,840	56,636	398,380

Monahans Facility						
Resource Category	Acres	Average Sand Thickness (ft)	Estimated In-Place Frac Sand Tons (In thousands)			
			Owned	Leased	Adverse	Total
Measured	454		—	64,144	—	64,144
Indicated	809		—	108,726	—	108,726
Measured + Indicated	1,263		—	172,870	—	172,870
Inferred	8,906		—	1,093,869	—	1,093,869
Total	10,169	60	—	1,266,739	—	1,266,739

The following table sets forth our historical production volumes, associated with our Kermit and Monahans facilities for the preceding three fiscal years:

	Production (Tons) By Classification and Mesh Size (In thousands)					
	December 31, 2021		December 31, 2020		December 31, 2019	
	40/70	70/140	40/70	70/140	40/70	70/140
Kermit	858	3,339	753	2,413	697	2,264
Monahans	1,410	2,676	1,502	1,653	1,261	1,613
Total	2,268	6,015	2,255	4,066	1,958	3,877

Growth and Technology Initiatives

Currently, significant innovations include our Dune Express project, as well as our autonomous trucking initiative, with which we aim to revolutionize the delivery of proppant.

Dune Express

We are developing the world’s first electrified proppant conveyor system serving the oilfield, the Dune Express. The Dune Express is expected to take thousands of trucks off public roads, which should reduce traffic accidents and fatalities in the region and significantly reduce emissions generated, relative to the traditional delivery of sand by Permian Basin producers.

Our plans for the initial Dune Express conveyor system entail a 42-mile long, 13 mmtpy capacity conveyor system built to deliver proppant to oil and natural gas companies operating in the Northern and Central Delaware Basin. According to [redacted], the Permian Basin is expected to consume approximately 60 million tons of proppant in 2022 and 71 million tons of proppant in 2023, respectively. This conveyor system will be strategically located to deliver proppant to the core of the most prolific producing region of the Delaware Basin with flexible loadout capabilities, including both permanent and mobile loadouts. We have secured the contiguous right-of-way, substantially completed the requisite federal and state permitting necessary for construction of the Dune Express and are currently in active negotiations with upstream producers for contracts to secure capacity on the Dune Express.

We currently expect construction of the Dune Express conveyor system to begin in the [redacted] quarter of [redacted]. Our anticipated cost for completion of the Dune Express system is approximately \$ [redacted].

Autonomous Trucking

Consistent with our focus on leveraging technology to improve our operations, we are expanding our footprint in the proppant delivery logistics business through the use of autonomous trucking. In March 2022, we entered into a definitive agreement with a leading provider of autonomous vehicle technology holding an established record of addressing off-road and technically challenging applications. Under the terms of the agreement, the technology provider has committed to meet certain performance hurdles corresponding to increased levels of transportation autonomy as demonstrated by use in the field, which align with our commitment to expand our fleet of autonomously enabled vehicles. In May 2022, we entered into a Master Lease Agreement with a commercial equipment financing provider for the right, but not the obligation, to require such provider to fund up to \$70.0 million of purchases related to the fleet build-out and associated logistics equipment. We expect to

begin operations with 20 trucks, which we anticipate will be delivered in the first quarter of 2023 with off-road platooning automation beginning in mid-2023, and deliveries of fully automated vehicles are targeted to begin in 2025. We expect the autonomous last-mile delivery solutions to be further enhanced through synergies with our planned Dune Express conveyor system to improve the reliability and consistency of proppant delivery, mitigate risks to operations and lessen the probability and impact of traffic congestion and accidents, weather events and other disruptions that frequently affect the delivery of oilfield products within the United States. We also believe our autonomous trucking initiative will amplify the positive impacts of our planned Dune Express system on the environments and communities in which we operate.

Competitive Strengths

We believe the following competitive strengths will allow us to successfully execute our business strategies, achieve our primary business objectives and generate free cash flow, including:

- **Unique asset base allows for a differentiated business profile** . Our Kermit and Monahans facilities have a unique combination of key attributes that drive our differentiated business profile, including (1) unmatched scale of reserves and acreage within the two large open-dune deposits at the northern and southern ends of the Winkler Sand Trend, (2) the proximity of the two large open-dune deposits to areas of high unconventional resource development activity at both the Northern and Southern portions of the Delaware and Midland Basins, (3) the associated high quality of proppant, (4) the associated ease of access to our reserves and resources, (5) the depth of our deposit, which provides a smaller areal footprint per ton produced and (6) plentiful availability of water. We are not aware of any other area in the Permian Basin that is able to replicate this combination of key attributes. When selecting our asset base in 2017, our management team, with its experience in upstream operations in the Permian Basin, thoroughly evaluated multiple sites with extensive geological investigations, and found that, in addition to an attractive proximity to the highest unconventional development areas in the U.S., our acreage offered the presence of a differentiated resource. We believe this resource has one of the thickest deposits in the Permian Basin, providing us with a large, long-lived reserve base. Unlike the overburdened sand reserves that are often in thinner sheets of deposition, our deep reserves extend up to the surface as open dunes, enabling us to mine more sand with less effort, reducing both environmental disturbance and operating cost. We believe that our reserves contain the highest-quality in-basin sand in the region, exhibiting minimal impurities, high crush strength, low turbidity, homogeneity and exceptional sphericity—all characteristics that make our sand optimal for unconventional resource development in the Permian Basin and preferred by our top-tier customer base. Finally, the presence of available water at our facilities, in an area where such resource is geologically intermittent and can be difficult to source without impacting regional aquifers, is a unique attribute that allows us to mine by electric dredge, significantly reducing emissions per ton of proppant mined while reducing operating costs.
- **Strategically located, well designed premium facilities** . The strategic location and logistics capabilities of our Kermit and Monahans facilities have enabled us to reliably and efficiently meet the proppant demand of our customers in both the Delaware and Midland Basins. As of March 31, 2022, our combined facilities have approximately 10.0 million tons of annual production capacity, two electric dredges, six dryers, 70,000 tons of onsite, finished-good storage, 14 dedicated truck loadout lanes with high speed loadout silos, a comprehensive water recycling system at each plant, which allows us to reuse approximately 95% of the water used in the production process, and 450,000 square feet of damp sand storage. Our facilities are capable of operating year-round and feature advanced safety designs, onsite water supply and recycling, power infrastructure and access to low-cost natural gas through connections to

interstate natural gas lines. In addition, because a single-well completion in the Permian Basin can currently require hundreds of truckloads of proppant delivered to the wellsite, we strategically located our Kermit facility to be bisected by two state highways and positioned our Monahans facility adjacent to two highways, one of which is Interstate 20, to facilitate the efficient transportation of our proppant to customers within the Permian Basin, unlike certain regional competitors located in rural areas that lack the capacity to efficiently handle increased truck traffic. The recent shift towards simultaneous multi-well completion designs has increased the requisite truckloads of proppant delivered to multi-well pads to over 1,500 truckloads. Our Kermit facility's location also provides a strategic origination point for the initial Dune Express conveyor system, which will travel across the Texas-New Mexico state line area, one of the highest development intensity sections of the Permian Basin.

- **Unique equity investor capitalization of the Company.** We are differentiated and advantaged by our unique equity investor capitalization. Rather than sourcing private equity capital, Bud Brigham funded the initial investments in us. Subsequently, we conducted a successful "friends and family" equity capital raise, which included many investors that had previously invested in Bud Brigham's prior enterprises. Importantly, approximately 40 of our equity investors are energy entrepreneurs, energy executives and sophisticated energy investors, providing both a validation of the business and facilitating our growth. As a result, we are differentiated in our space with a diverse and sophisticated investor group that is aligned and actively supportive of our shareholder value creation objectives, and we therefore also operate without the overhang that can often be attributed to large private equity investor positions.
- **Ability to leverage technology in optimizing cost structure and addressing our customer's ESG goals .** Our ability to generate cash flow in various commodity price environments and across business cycles is underpinned by our commitment to the continuous optimization of our operating and capital cost structures. Our move from traditional excavation methods to e-mining reduces the need for on-site personnel, heavy equipment and diesel fuel. Further, this technology also provides us the ability to enhance our customers' ESG initiatives. Numerous employees once located on-site in the Permian Basin now work in a smaller group at our command center in Austin, Texas, monitoring and operating the facilities by video and telecom. This has significantly reduced our cost structure and also has enabled us to attract and retain an exceptionally credentialed workforce as compared to competitors with traditional operations that by nature do not provide such flexibility with respect to the location of personnel deployment. In addition, the reduction of heavy equipment usage significantly reduces our maintenance capital requirements, allowing for greater capital efficiency and improved safety as a result of fewer equipment operators on-site.
- **Pure-play, in-basin proppant and logistics in the Permian Basin .** We are a pure-play, in-basin proppant producer in the Permian Basin with large reserves of high-quality sand that are well-suited for the hydraulic fracturing of oil and natural gas wells in the region. The Permian Basin has been the most active and resilient unconventional development area in the U.S. When the U.S. horizontal rig count peaked in 2014 at 1,372, the Permian Basin accounted for 41% of total U.S. rig count. Since that peak, rig activity in the Permian Basin has proven resilient and has grown to represent nearly 50% of active U.S. drilling rigs as of March 31, 2022. Our acreage is located at the northern and southern ends of the Winkler Sand Trend, and we are logistically advantaged to reach wellheads throughout the entirety of the Permian Basin. Our focus on the Permian Basin, as well as our vast and diverse oil and gas operational experience, has enabled us to recognize and aggressively pursue large scale projects like the Dune Express that will be a step-change for the efficiency of proppant delivery in the area. Successful execution of such projects requires operational experience and in-basin expertise to

ensure that all aspects of the project have been thoroughly considered and executed. We have also benefited from our extensive track record, as well as the associated relationships developed through our previous activity in the region by our previously created enterprises. As such, among other actions, we have (1) substantially completed the requisite federal and state permitting process, (2) promoted optimal access to lease roads that, in comparison to public roads, provide a significantly shorter mine-to-wellsite path of travel and allow larger last-mile truckloads that promote per-ton efficiency, and (3) chosen appropriate conveyor routing and loadouts to service the most active parts of the Permian Basin with high-quality operators.

- ***Incentivized board and management team with significant experience in the Permian Basin and a track record of stockholder value creation.*** Our executive management team has a combined total of over 75 years of experience in the energy industry. This experience includes two successful IPOs, two successful company sales, multiple asset monetizations and the successful building of other enterprises. See the subsection titled “—Management and Historical Successes” above. Management benefits from extensive experience in the Permian Basin, where our founder was born and raised, and he and other management members have extensive relationships built over a long history of involvement with various businesses in the region across upstream operations, non-operated enterprises, sand mine development, mineral acquisitions and water sourcing. We believe our management team’s experience managing upstream operations in the Permian Basin lends a unique perspective that provides us with a network of key potential customers, suppliers, vendors and employees, contributes to our ability to provide a high-quality customer experience and serves as a strong foundation for our role as a collaborative partner in meeting the advanced completion needs of our customers. Further, our management team has extensive experience in identifying attractive operating areas and evaluating resource potential through a variety of means, including extensive geologic studies; we believe this experience will continue to allow us to expand our operations by selectively pursuing organic development opportunities and innovations in the Permian Basin.
- ***Valuable relationships with a diverse group of customers.*** The success of our business has been underpinned by our relationships with some of the most respected operators and service companies in the Permian Basin. Our customers range from high-profile, public oil and natural gas and service companies to private, independent enterprises. We also have a diverse customer base, which we believe minimizes counterparty risk. We had 31 customers during the three months ended March 31, 2022, with the top 10 customers accounting for approximately 72% of our revenue for that period. We had 41 customers during the year ended December 31, 2021, with the top 10 customers accounting for approximately 75% of our revenue for that period. Our ability to secure and maintain these robust relationships lends support to our ability to weather economic headwinds. In 2020, we continued to operate throughout the height of the pandemic, grew sales volumes year over year from 2019 to 2020, and increased our market share, as we expanded our customer base by the addition of 28 new customers since January 1, 2020.
- ***Proactive approach to the well-being of the environment and our employees.*** Our voluntary agreement under the CCAA ensures that the USFWS will not require us to comply with conservation measures or impose any restrictions on our use of resources beyond those which we have already agreed. Our large acreage position also provides us with the flexibility to set aside as much as 17,000 acres of high suitability DSL habitat for conservation protection, which would exempt us from certain enrollment fees otherwise required under the CCAA. The smaller acreage position of many of our Permian Basin competitors may make similar set-asides commercially challenging for them. We believe that our voluntary participation under the

CCAA will help to safeguard our assets and operations against adverse effects that could result from non-participation or any future listing of the DSL as an endangered species. We believe potential customers, focused on improving the sustainability profile of their own operations, value our proactive stance towards environmental risk management. As we focus on the well-being of the environment we operate in, we also focus on the well-being of our employees through initiatives such as Wyatt's Lodge. We believe that this differentiated investment in our employees creates a culture of pride and ownership that fosters the positive disruptions and innovations our business successes are built on.

Business Strategies

Our principal business objective is to drive improvements to critical products and services in the Permian Basin through innovation which may reduce environmental impacts and optimize our cost structure, while driving notable value creation for our stockholders and stakeholders alike.

- **Continuously optimize cost structure in order to deliver free cash flow across commodity cycles.** Demand for services used in the development of unconventional resources in the United States varies notably based on the pace and intensity of such development, which is driven in large part by the prevailing commodity price environment. Since the beginning of 2020 through March 31, 2022, per-barrel prices of West Texas Intermediate ("WTI") crude oil exhibited substantial volatility ranging from \$16.55 to \$123.70, and we expect commodity prices to continue to be unpredictable going forward; as such, since our inception, we have continuously strived to optimize our cost structure and we believe we are able to provide our stockholders with a return of capital through cycles. For instance, substantial up-front investments were made in our Kermit and Monahans facilities and associated equipment in order for their design to maximize uptime and reliability. Our access to a natural water table near the surface of our deposit has allowed us to significantly lower our production costs through dredge mining. Our adoption of e-mining has driven significant cost savings, with mining costs per ton down by approximately 70% in the first quarter of 2021 as compared to the first quarter of 2020. In the future, the modular designs of our facilities will accommodate future expansions at a significantly reduced expense as compared to the conventionally designed facilities of our Permian Basin competitors.
- **Seek out opportunities to positively disrupt the market for products and services critical to unconventional resource development projects.** Innovation is central to our corporate culture, as it has been since the leadership role of certain members of our management team in the Bakken Formation's evolution via Brigham Exploration, and we continuously strive to holistically improve unconventional resource development in the United States, particularly in the Permian Basin. We were a leader in the disruption in the proppant supply chain as early entrants into "in-basin" sand which eliminated the need for in excess of 1,000-mile train hauls from the midwestern United States and in excess of 250-mile truck hauls from central Texas, providing substantial economic and environmental benefits. More recently, we were the first to bring e-mining to the Permian Basin, and we are advancing our initiative to meaningfully electrify sand delivery operations in the Permian Basin through our Dune Express and autonomous trucking initiatives.
- **Use our unmatched scale to amplify innovation and disruptive technology to improve the unconventional resource supply chain.** Our Kermit and Monahans facilities represent a complete reinvention of the more traditional proppant production facility. Most proppant production facilities were historically located far from the point of consumption and therefore had long supply lines. Generally speaking, these facilities frequently experienced downtime on

an unpredictable schedule. With the onset of in-basin sand, we recognized the need for our facilities to operate on a just-in-time delivery basis and took to redesigning the traditional facility to ensure that redundancy was built in at critical junctures to mitigate the effects of unplanned equipment downtime. Additional early measures included investments into the automation of our loadout lanes to drive down load times and the automation of many of our operations activities to improve efficiency and safety. More recently, we were the first, and currently the only, Permian Basin miner to electrify the mining of frac sand through the use of electric dredges. Our Dune Express and autonomous trucking initiatives are the next positive major disruptions that we are bringing to the Permian Basin. As a positive disruptive industry technology, the Dune Express replaces much of the trucking haul with electric, conveyor-based transportation, which is likely to provide substantial ESG benefits, including a significant reduction in the emissions generated, relative to in the traditional delivery of sand to customer wellsites due to the reduction in miles driven per ton of payload delivered benefitting from the streamlined logistics footprint. Similarly, we expect our automated trucking initiative to significantly reduce vehicular incidents and save lives through the reduced incidence of human error, improved route planning and expanded payloads that will deliver substantially more tons of sand per gallon of diesel fuel consumed. These strategic initiatives and other innovations are clear demonstrations of our commitment to evaluate and pursue strategies and technologies that positively disrupt our industry and continue to establish, maintain and optimize aspects of our business that provide distinct advantages over our competitors.

- **Grow business around anchor contracts with high quality counterparties.** Innovation and the pursuit of additional projects like the Dune Express are central to our strategy, but they are only made possible by our relationships with top-tier operators in the Permian Basin. We have supply contracts in place with a variety of leading oil and natural gas and oilfield services companies, many of which are high-credit quality customers. The quality of our customer base is reflected in our collections rate over the three months ended March 31, 2022, which exceeded 99.9%. We had similar collection rates for the years ended December 31, 2021, 2020 and 2019, which also exceeded 99.9%. We are currently in active negotiations with upstream producers for contracts to secure capacity on the Dune Express. While many factors influence the selection of proppant providers, we believe that our differentiated environmental profile, resulting from our major electrification projects, paired with our ability to reliably provide large volumes of quality proppant at attractive rates makes us a preferred partner for customers similarly prioritizing enhanced sustainability of operations and cost structure optimization.
- **Drive stockholder value creation by prioritizing our other stakeholders through ESG.** We have recognized, from our founding, that long-term profitability for our stockholders can be achieved only by delivering positive outcomes for our other stakeholders—treating our employees well, executing as good stewards in the communities and the environments we do business in, and operating with the highest governance and diligence standards. Though many of our stakeholders are not owners of our business, they do have a meaningful influence in the success of our business. Therefore, to optimize value creation for our stockholders, we strive to provide attractive outcomes for our stakeholders.
- **Maintain a conservative financial profile in order to provide durable capital returns in a cyclical industry.** The energy services business is historically cyclical, and we believe that a strong balance sheet and substantial liquidity are key, not only for the long-term health of the Company, but also for its ability to continuously return capital to its stockholders through-cycles. On a pro forma basis after giving effect to this offering, we expect to have approximately \$ million of cash on hand, \$ million available under our Asset-Based Loan Credit

Facility (the “ABL Credit Facility”), and \$ outstanding under our credit agreement with Stonebriar Commercial Finance LLC (the “Term Lender”) pursuant to which the Term Lender extended a \$180.0 million single advance six-year term loan credit facility (the “Term Loan Credit Facility”). Further, we plan to continue making regular stockholder distributions as we transition into a public company, likely in the form of regular base dividends and potentially a combination of special dividends and share repurchases. Please see the subsection titled “—Recent Developments—May 2022 Cash Distribution” and the section titled “Dividend Policy.”

Recent Developments

Master Lease Agreement

In May 16, 2022, Atlas entered into a master lease agreement with Stonebriar Commercial Finance for the right, but not the obligation, to require Stonebriar Commercial Finance to fund up to \$70.0 million of purchases of transportation and logistics equipment. The interim financing for down payments on any purchased equipment is based on one-month Secured Overnight Financing Rate (“SOFR”), plus 8.00%. The final interest rate will be set upon acceptance of the equipment based on the terms of the agreement.

May 2022 Cash Distribution

In May 2022, we made cash distributions to unitholders of Atlas LLC in the aggregate amount of \$15.0 million pursuant to the terms of the Third Amended and Restated Limited Liability Company Agreement of Atlas LLC. Concurrent with this distribution, the Company paid \$5.0 million of the Term Loan Credit Facility per the terms of the Term Loan Credit Facility agreement.

Corporate Reorganization

Atlas LLC was formed on April 20, 2017 for the purpose of being an in-basin, pure-play producer and provider of proppant primarily in the Permian Basin.

Atlas Energy Solutions Inc. (“Atlas Inc.”) was incorporated as a Delaware corporation in February 2022. Following this offering and the corporate reorganization described below, Atlas Inc. will be a holding company whose sole material asset will consist of membership interests in Atlas LLC. Atlas LLC will own, directly or indirectly, all of our operating assets. After the consummation of this offering and the corporate reorganization described below, Atlas Inc. will be the sole managing member of Atlas LLC, will be responsible for all operational, management and administrative decisions relating to Atlas LLC’s business and will consolidate the financial results of Atlas LLC and its subsidiaries.

In connection with the completion of this offering, we will engage in the following transactions, which we refer to as the “corporate reorganization”:

- new holding companies will be formed through which the existing (direct or indirect) holders of Atlas Units (as defined below) (the “Legacy Owners”) will hold their interests in Atlas LLC;
- all of the membership interests in Atlas LLC will be converted into a single class of common units in Atlas LLC (“Atlas Units”);
- the Legacy Owners will directly or indirectly transfer all or a portion of their Atlas Units and voting rights in Atlas LLC to Atlas Inc. in exchange for shares of Class A common stock and shares of Class B common stock (such that the Legacy Owners will hold one share of Class B common stock for each Atlas Unit held by them immediately following this offering); and

- Atlas Inc. will contribute all of the net proceeds received by it in this offering to Atlas LLC in exchange for a number of Atlas Units such that the total number of Atlas Units held by Atlas Inc. equals the number of shares of Class A common stock outstanding after this offering.

In the event we increase or decrease the number of shares of Class A common stock sold in this offering, the number of Atlas Units held by us immediately following this offering will correspondingly increase or decrease, respectively.

After giving effect to these transactions and this offering and assuming the underwriters' option to purchase additional shares is not exercised:

- the Legacy Owners will own all of the outstanding shares of Class B common stock and _____ shares of Class A common stock, collectively representing _____ % of the voting power and _____ % of the economic interest of Atlas Inc.;
- Atlas Inc. will own an approximate _____ % interest in Atlas LLC; and
- the Legacy Owners will own an approximate _____ % interest in Atlas LLC.

If the underwriters' option to purchase additional shares is exercised in full:

- the Legacy Owners will own all of the outstanding shares of Class B common stock and _____ shares of Class A common stock, collectively representing _____ % of the voting power and _____ % of the economic interest of Atlas Inc.;
- Atlas Inc. will own an approximate _____ % interest in Atlas LLC; and
- the Legacy Owners will own an approximate _____ % interest in Atlas LLC.

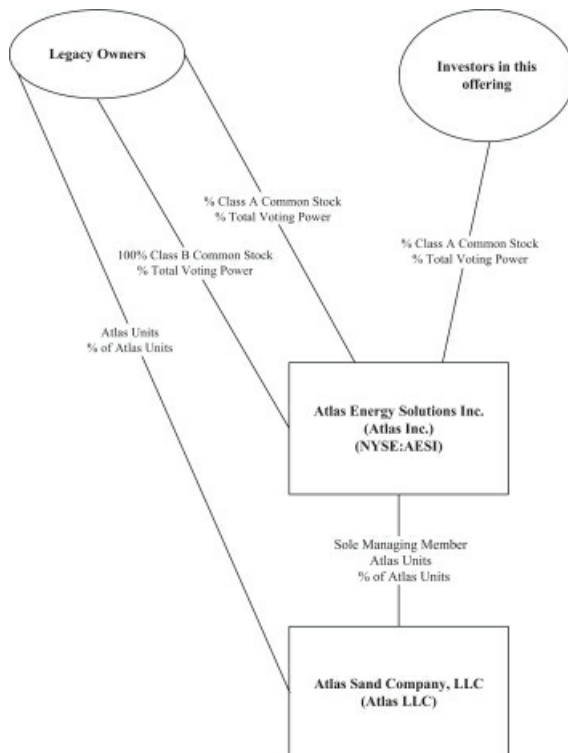
Each share of Class B common stock has no economic rights but entitles its holder to one vote on all matters to be voted on by stockholders generally. Holders of Class A common stock and Class B common stock will vote together as a single class on all matters presented to our stockholders for their vote or approval, except as otherwise required by applicable law or by our amended and restated certificate of incorporation. We do not intend to list our Class B common stock on any exchange.

Our organizational structure following the offering and corporate reorganization is commonly referred to as an "Up-C" structure. Pursuant to this structure, following this offering we will hold a number of Atlas Units equal to the number of shares of Class A common stock issued and outstanding, and the Atlas Unitholders (other than us) will hold a number of Atlas Units equal to the number of shares of Class B common stock issued and outstanding. The Up-C structure was selected in order to (i) allow certain Legacy Owners the option to continue to hold their economic ownership in Atlas LLC in "pass-through" form for U.S. federal income tax purposes through their ownership of Atlas Units, and (ii) potentially allow us to benefit from certain net cash tax savings that we might realize as a result of certain increases in tax basis that may occur as a result of Atlas Inc.'s acquisition (or deemed acquisition for U.S. federal income tax purposes) of Atlas Units pursuant to the exercise of the Redemption Right (as defined below) or the Call Right (as defined below).

Following this offering, under the Fourth Amended and Restated Limited Liability Company Agreement of Atlas LLC (the "Atlas LLC Agreement"), the Atlas Unitholders, other than Atlas Inc., will, subject to certain limitations, have the right (the "Redemption Right") to cause Atlas LLC to acquire all or a portion of their Atlas Units for, at Atlas LLC's election, (i) shares of our Class A common stock at a redemption ratio of one share of Class A common stock for each Atlas Unit redeemed, subject to

conversion rate adjustments for stock splits, stock dividends, reclassification and other similar transactions, or (ii) an equivalent amount of cash. We will determine whether to issue shares of Class A common stock or cash based on facts in existence at the time of the decision, which we expect would include the relative value of the Class A common stock (including the trading prices for the Class A common stock at the time), the cash purchase price, the availability of other sources of liquidity (such as an issuance of preferred stock) to acquire the Atlas Units and alternative uses for such cash. Alternatively, upon the exercise of the Redemption Right, Atlas Inc. (instead of Atlas LLC) will have the right (the “Call Right”) to, for administrative convenience, acquire each tendered Atlas Unit directly from the redeeming Atlas Unitholder for, at its election, (x) one share of Class A common stock, subject to conversion rate adjustments for stock splits, stock dividends, reclassification and other similar transactions, or (y) an equivalent amount of cash. In addition, upon a change of control of Atlas Inc., Atlas Inc. will have the right to require the Atlas Unitholders to exercise their Redemption Right with respect to some or all of their Atlas Units. In connection with any redemption of Atlas Units pursuant to the Redemption Right or the Call Right, a corresponding number of shares of Class B common stock will be cancelled. See the subsection titled “Certain Relationships and Related Party Transactions—Atlas LLC Agreement.”

The following diagram indicates our simplified ownership structure immediately following this offering and the transactions related thereto (assuming the underwriters’ option to purchase additional shares is not exercised):



Summary Risk Factors

Investing in our Class A common stock involves risks. You should carefully read the section of this prospectus titled "Risk Factors" and the other information in this prospectus for an explanation of these risks before investing in our Class A common stock. In particular, the following is a summary of some of the principal risks that could materially adversely affect our business, financial condition and results of operations, which could cause a decrease in the price of our Class A common stock and a loss of all or part of your investment.

Risks Related to Our Business and Operations

- Our proppant production and logistics operations depend on the level of activity in the oil and natural gas industries, which experiences substantial volatility due to a number of factors, including demand for oil and natural gas, the COVID-19 pandemic, weather, seasonality and demand for frac sand, among others.
- Increasing costs, a lack of dependability or availability of transportation services, or infrastructure or an oversupply of transportation services could have an adverse effect on our business, financial condition and results of operations.
- We may be adversely affected by decreased demand for frac sand or the development of technically and cost-effective alternative proppants or new processes to replace hydraulic fracturing.
- Given the nature of our proppant production operations, we face a material risk of liability, delays and increased cash costs of production from environmental and industrial accidents and operational breakdowns.
- The development of the Dune Express is a complex and challenging process that may take longer and cost more than estimated, or not be completed at all. In addition, successful development and operation of the Dune Express system will depend on certain factors that may be outside of our control, and the storage and transportation capacity or other anticipated benefits of our Dune Express system may not be achieved.
- A negative shift in investor sentiment towards the oil and natural gas industry and increased attention to ESG and conservation matters may adversely impact our business.
- Most of our product sales are currently generated at two facilities. Any adverse developments at those facilities could have an adverse effect on our business, financial condition and results of operations.
- If we or our customers are not able to obtain and maintain necessary permits, our results of operations could suffer.
- An increase in the supply of frac sand having similar characteristics as the frac sand we produce could make it more difficult for us to renew or replace our existing contracts on favorable terms, or at all.

Risks Related to Financial Conditions

- Our indebtedness could adversely affect our financial flexibility and our competitive position.
- Our supply agreements contain provisions requiring us to deliver minimum amounts of sand-based proppant. If we are unable to meet our minimum requirements under these contracts, we may be required to pay penalties or the contract counterparty may be able to terminate the agreement.

Risks Related to Environmental, Mining and Other Regulations

- Silica-related health issues and legislation, including compliance with existing or future regulations relating to respirable crystalline silica, or litigation could have an adverse effect on our business, reputation or results of operations.
- Federal, state and local legislative and regulatory initiatives relating to hydraulic fracturing and the potential for related litigation could result in increased costs, additional operating restrictions or delays for our customers, which could cause a decline in the demand for our frac sand and negatively impact our business, results of operations and financial condition.
- We and our customers are subject to other extensive regulations, including licensing, plant and wildlife protection and reclamation regulation, that impose, and will continue to impose, significant costs and liabilities. In addition, future regulations, or more stringent enforcement of existing regulations, could increase those costs and liabilities, which could adversely affect our results of operations.

Risks Related to Our Class A Common Stock and Organizational Structure

- We are a holding company. Our sole material asset after completion of this offering and our corporate reorganization will be our equity interest in Atlas LLC, and we will accordingly be dependent upon cash distributions from Atlas LLC to cover our taxes and corporate and overhead expenses, among other expenses.
- The requirements of being a public company, including compliance with the reporting requirements of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), and the requirements of the Sarbanes-Oxley Act, may strain our resources, increase our costs and distract management, and we may be unable to comply with these requirements in a timely or cost-effective manner.

Emerging Growth Company Status

We are an "emerging growth company" as defined in the Jumpstart Our Business Startups Act (the "JOBS Act"). For as long as we are an emerging growth company, unlike other public companies that are not emerging growth companies under the JOBS Act, we are not required to:

- provide an auditor's attestation report on management's assessment of the effectiveness of our system of internal control over financial reporting pursuant to Section 404(b) of the Sarbanes-Oxley Act;
- provide more than two years of audited financial statements and related management's discussion and analysis of financial condition and results of operations;
- comply with any new requirements that may be adopted by the Public Company Accounting Oversight Board (the "PCAOB") requiring mandatory audit firm rotation or a supplement to the auditor's report in which the auditor would be required to provide additional information about the audit and the financial statements of the issuer;
- provide certain disclosure regarding executive compensation required of larger public companies or hold stockholder advisory votes on executive compensation required by the Dodd-Frank Wall Street Reform and Consumer Protection Act; or
- obtain stockholder approval of any golden parachute payments not previously approved.

We will cease to be an emerging growth company upon the earliest of:

- the last day of the fiscal year in which we have \$1.07 billion or more in annual revenues;

- the date on which we become a “large accelerated filer” (the fiscal year-end on which the total market value of our common equity securities held by non-affiliates is \$700 million or more as of June 30);
- the date on which we issue more than \$1.0 billion of non-convertible debt over a three-year period; or
- the last day of the fiscal year following the fifth anniversary of our initial public offering.

In addition, Section 107 of the JOBS Act provides that an emerging growth company can take advantage of the extended transition period provided in Section 7(a)(2)(B) of the Securities Act of 1933, as amended (the “Securities Act”), for complying with new or revised accounting standards, but we have irrevocably opted out of the extended transition period and, as a result, we will adopt new or revised accounting standards on the relevant dates in which adoption of such standards is required for other public companies.

Principal Executive Offices and Internet Address

Our principal executive offices are located at 5918 W. Courtyard Drive, Suite 500, Austin, Texas 78730, and our telephone number at that address is (512) 220-1200. Our website address is . We expect to make our periodic reports and other information filed with or furnished to the SEC available free of charge through our website as soon as reasonably practicable after those reports and other information are electronically filed with or furnished to the SEC. Information contained on, or otherwise accessible through, our website or any other website is not incorporated herein by reference and does not constitute part of this prospectus.

The Offering	
Class A common stock offered by us	shares (shares if the underwriters' option to purchase additional shares is exercised in full).
Class A common stock to be outstanding immediately after completion of this offering	shares (shares if the underwriters' option to purchase additional shares is exercised in full).
Class B common stock to be outstanding immediately after completion of this offering	shares, or one share for each Atlas Unit held by the Legacy Owners immediately following this offering and any exercise of the underwriters' option to purchase additional shares. Class B shares are non-economic. In connection with any redemption of Atlas Units pursuant to the Redemption Right or the Call Right, a corresponding number of shares of Class B common stock will be cancelled.
Voting power of Class A common stock after giving effect to this offering	% (or (i) % if the underwriters' option to purchase additional shares is exercised in full and (ii) 100% if all outstanding Atlas Units held by the Legacy Owners were redeemed, along with a corresponding number of shares of our Class B common stock, for newly issued shares of Class A common stock on a one-for-one basis).
Voting power of Class B common stock after giving effect to this offering	% (or (i) % if the underwriters' option to purchase additional shares is exercised in full and (ii) 0% if all outstanding Atlas Units held by the Legacy Owners were redeemed, along with a corresponding number of shares of our Class B common stock, for newly issued shares of Class A common stock on a one-for-one basis).
Voting rights	Each share of our Class A common stock entitles its holder to one vote on all matters to be voted on by stockholders generally. Each share of our Class B common stock entitles its holder to one vote on all matters to be voted on by stockholders generally. Holders of our Class A common stock and Class B common stock vote together as a single class on all matters presented to our stockholders for their vote or

<p>Use of proceeds</p>	<p>approval, except as otherwise required by applicable law or by our amended and restated certificate of incorporation. See “Description of Capital Stock.”</p> <p>We expect to receive approximately \$ _____ million of net proceeds from the sale of Class A common stock, after deducting underwriting discounts and estimated offering expenses payable by us (assuming the midpoint of the price range set forth on the cover page of this prospectus) (or approximately \$ _____ million if the underwriters’ option to purchase additional shares is exercised in full).</p> <p>We intend to contribute all of the net proceeds of this offering to Atlas LLC in exchange for Atlas Units. Atlas LLC will use:</p> <ul style="list-style-type: none">• approximately \$ _____ million of the net proceeds of this offering to fund, in part, the construction of the Dune Express;• approximately \$ _____ million of the net proceeds of this offering to fund, in part, the expansion of our Kermit facility; and• approximately \$ _____ million of the net proceeds of this offering to fund general corporate purposes. <p>Please see “Use of Proceeds” for a more complete description of the intended use of proceeds from this offering.</p>
<p>Dividend policy</p>	<p>We expect to pay dividends on our Class A common stock in amounts determined from time to time by our board of directors. Future dividend levels will depend on the earnings of our subsidiaries, their financial condition, cash requirements, regulatory restrictions any restrictions in financing agreements and other factors deemed relevant by the board. Please see “Dividend Policy.”</p>
<p>Redemption rights of Atlas Unitholders</p>	<p>Following this offering, under the Atlas LLC Agreement, the Atlas Unitholders, other than Atlas Inc., will, subject to certain limitations, have the right, pursuant to the Redemption Right, to cause Atlas LLC to acquire all or a portion of their Atlas Units for, at Atlas LLC’s election, (i) shares of our Class A common stock at a</p>

	<p>redemption ratio of one share of Class A common stock for each Atlas Unit redeemed, subject to conversion rate adjustments for stock splits, stock dividends, reclassification and other similar transactions, or (ii) an equivalent amount of cash. Alternatively, upon the exercise of the Redemption Right, Atlas Inc. (instead of Atlas LLC) will have the right, pursuant to the Call Right, to, for administrative convenience, acquire each tendered Atlas Unit directly from the redeeming Atlas Unitholder for, at its election, (x) one share of Class A common stock, subject to conversion rate adjustments for stock splits, stock dividends, reclassification and other similar transactions, or (y) an equivalent amount of cash. In connection with any redemption of Atlas Units pursuant to the Redemption Right or the Call Right, a corresponding number of shares of Class B common stock will be cancelled. See "Certain Relationships and Related Party Transactions—Atlas LLC Agreement."</p>
Proposed listing symbol	<p>We intend to apply to list our Class A common stock on the NYSE under the symbol "AESL."</p>
Risk factors	<p>You should carefully read and consider the information set forth under the heading "Risk Factors" and all other information set forth in this prospectus before deciding to invest in our Class A common stock.</p>
<p>The information above excludes (i) shares of Class A common stock reserved for issuance under our long-term incentive plan (the "LTIP"), which we intend to adopt in connection with the completion of this offering and (ii) shares of Class A common stock reserved for issuance in connection with any exercise of the Redemption Right or Call Right.</p>	

Summary Historical and Pro Forma Financial and Operating Data

Atlas Inc. was formed on February 3, 2022 and does not have historical financial results. The following table shows the summary historical condensed consolidated financial information of our Predecessor and the summary pro forma financial information of Atlas Inc. for the periods and as of the dates indicated.

The summary historical condensed consolidated financial information of our Predecessor as of and for the years ended December 31, 2021 and December 31, 2020 was derived from the historical audited consolidated financial statements of our Predecessor included elsewhere in this prospectus. The summary historical condensed consolidated interim financial information of our Predecessor as of and for the three months ended March 31, 2022 and March 31, 2021 was derived from the historical unaudited condensed consolidated interim financial statements of our Predecessor included elsewhere in this prospectus.

The summary unaudited pro forma statement of operations data for the year ended December 31, 2021 has been prepared to give pro forma effect to (i) the reorganization transactions described under “Corporate Reorganization” and (ii) this offering and the application of the net proceeds therefrom as if each had been completed as of January 1, 2021. The summary unaudited pro forma statement of operations and balance sheet data as of and for the three months ended March 31, 2022 has been prepared to give pro forma effect to (i) the reorganization transactions described under “Corporate Reorganization” and (ii) this offering and the application of the net proceeds therefrom as if each had been completed as of January 1, 2021, in the case of the statement of operations data, and on March 31, 2022, in the case of the balance sheet data. This information is subject to and gives effect to the assumptions and adjustments described in the notes accompanying the unaudited pro forma financial statements included elsewhere in this prospectus. The summary unaudited pro forma financial and operating data is presented for informational purposes only and should not be considered indicative of actual results of operations that would have been achieved had such transactions been consummated on the dates indicated, and does not purport to be indicative of statements of financial position or results of operations as of any future date or for any future period.

The following table should be read together with the sections titled “Use of Proceeds,” “Management’s Discussion and Analysis of Financial Condition and Results of Operations” and “Corporate Reorganization,” and the historical consolidated financial statements of our Predecessor, our pro forma financial statements and related notes included elsewhere in this prospectus.

	Predecessor			
	Three Months Ended March 31,		Years Ended December 31,	
	2022	2021	2021	2020
	(In thousands, except per share and per ton amounts)			
	(unaudited)		(unaudited)	
Statement of Operations Data:				
Total sales	\$ 59,854	\$ 31,832	\$172,404	\$ 111,772
Cost of sales (excluding depreciation, depletion and accretion expense)	24,445	18,920	84,656	73,118
Depreciation, depletion and accretion expense	6,167	5,448	23,681	20,887
Gross profit	29,242	7,464	64,067	17,767
Selling, general and administrative expense	5,275	4,251	17,071	17,743
Impairment of long-lived assets	—	—	—	1,250

	Predecessor			
	Three Months Ended March 31,		Years Ended December 31,	
	2022	2021	2021	2020
	(In thousands, except per share and per ton amounts)			
	(unaudited)	(unaudited)		
Operating income (loss)	23,967	3,213	46,996	(1,226)
Interest expense, net(1)	(3,990)	(8,500)	(42,198)	(32,819)
Other income (loss)	1,094	55	291	(25)
Income (loss) before income taxes	21,071	(5,232)	5,089	(34,070)
Income tax expense	225	103	831	372
Net income (loss)	<u>\$ 20,846</u>	<u>\$ (5,335)</u>	<u>\$ 4,258</u>	<u>\$ (34,442)</u>
Pro Forma Information (unaudited):				
Pro forma net income (loss)(2)	\$			
Pro forma non-controlling interest(3)	\$			
Pro forma net income (loss) attributable to common stockholders(4)	\$			
Pro forma net income (loss) per common share attributable to common stockholders(2)(4)				
Basic	\$			
Diluted	\$			
Pro forma weighted-average shares outstanding(4)				
Basic				
Diluted				
Other Data (unaudited):				
Sales Volumes (tons)	2,320,563	1,874,715	8,279,036	6,317,716
Contribution Margin(5)	\$ 35,409	\$ 12,912	\$ 87,748	\$ 38,654
Adjusted EBITDA(5)	\$ 30,981	\$ 8,981	\$ 71,954	\$ 24,667
Adjusted EBITDA Margin(5)	51.8%	28.2%	41.7%	22.1%
Adjusted Free Cash Flow(5)	22,335	6,934	64,239	19,686
Adjusted Free Cash Flow Margin(5)	37.3%	21.8%	37.3%	17.6%
Adjusted Free Cash Flow Conversion(5)	72.1%	77.2%	89.3%	79.8%
Cost of Sales per ton				
Statement of Cash Flows Data:				
Net cash provided by operating activities	\$ 23,699	\$ 4,469	\$ 21,356	\$ 12,486
Net cash used in investing activities	(6,037)	(1,725)	(19,371)	(9,532)
Net cash (used in) provided by financing activities	(4,227)	(9,641)	2,344	11,826
Cash and cash equivalents, end of period	<u>\$ 53,836</u>	<u>\$ 29,175</u>	<u>\$ 40,401</u>	<u>\$ 36,072</u>
Balance Sheet Data (at end of period):				
Cash and cash equivalents	\$ 53,836	\$ 29,175	\$ 40,401	\$ 36,072
Total assets	<u>\$ 571,600</u>	<u>\$ 516,652</u>	<u>\$ 543,850</u>	<u>\$ 521,742</u>
Long-term debt, net of discount and deferred financing costs	155,496	131,058	159,712	134,844
Total liabilities	<u>211,852</u>	<u>190,265</u>	<u>205,153</u>	<u>190,045</u>
Total members' equity	<u>\$ 359,748</u>	<u>\$ 326,387</u>	<u>\$ 338,697</u>	<u>\$ 331,697</u>

- (1) For the year ended December 31, 2021, includes loss on extinguishment of debt of \$11.9 million resulting from the recognition of unamortized debt discount and deferred financing costs upon redemption of the 2018 Term Loan Credit Facility. Additionally, there was a make-whole premium of \$4.5 million paid upon redemption of the 2018 Term Loan Credit Facility.
- (2) Pro forma net income (loss) reflects pro forma income tax expense of \$ and \$ for the year ended December 31, 2021 and the three months ended March 31, 2022, respectively, associated with the income tax effects of this offering and the corporate reorganization described under the section titled "Corporate Reorganization." Atlas Inc. is a corporation and is subject to U.S. federal income tax. Our Predecessor is and was generally not subject to U.S. federal income tax at an entity level. As a result, the consolidated net income in our Predecessor's historical financial statements does not reflect the tax expense we would have incurred if we had been subject to U.S. federal income tax at an entity level during such periods.
- (3) Reflects the pro forma adjustment to non-controlling interest and net income attributable to common stockholders to reflect the ownership of Atlas Units by the Legacy Owners.
- (4) Pro forma net income per share attributable to common stockholders and weighted average shares reflect the estimated number of shares of Class A common stock we expect to have outstanding upon the completion of our corporate reorganization described under the section titled "Corporate Reorganization" and this offering. On a pro forma basis for the year ended December 31, 2021 and the three months ended March 31, 2022, the potential redemption of Atlas Units and cancellation of the corresponding shares of Class B common stock has been excluded from the reported diluted weighted average shares outstanding used to compute diluted earnings per share as the impact of such redemption would be antidilutive. We use the "if-converted" method to determine the potential dilutive effect of our Class B common stock.
- (5) Please read "—Non-GAAP Financial Measures" below for the definitions of Adjusted EBITDA, Adjusted EBITDA Margin, Adjusted Free Cash Flow, Adjusted Free Cash Flow Margin, Adjusted Free Cash Flow Conversion and Contribution Margin and a reconciliation of Adjusted EBITDA, Adjusted EBITDA Margin, Adjusted Free Cash Flow, Adjusted Free Cash Flow Margin, Adjusted Free Cash Flow Conversion and Contribution Margin to our most directly comparable financial measures calculated and presented in accordance with generally accepted accounting principles in the United States ("GAAP").

Non-GAAP Financial Measures

Adjusted EBITDA, Adjusted EBITDA Margin, Adjusted Free Cash Flow, Adjusted Free Cash Flow Margin, Adjusted Free Cash Flow Conversion and Contribution Margin are non-GAAP supplemental financial measures used by our management and by external users of our financial statements such as investors, research analysts and others, in the case of Adjusted EBITDA, to assess our operating performance on a consistent basis assess periods by removing the effects of development activities and, in the case of Adjusted Free Cash Flow, to assess the financial performance of our assets and their ability to sustain dividends over the long term without regard to financing methods, capital structure or historical cost basis.

We define Adjusted EBITDA as net income (loss) before depreciation, depletion and accretion, interest expense, income tax expense, expense related to workforce reduction, impairment of long-lived assets, unit-based compensation, loss on disposal of property, plant and equipment, gain (loss) on extinguishment of debt and unrealized commodity derivative gain (loss). Management believes Adjusted EBITDA is useful because it allows them to more effectively evaluate our operating performance and compare the results of our operations from period to period and against our peers without regard to our financing methods or capital structure. We exclude the items listed above from net income in arriving at Adjusted EBITDA because these amounts can vary substantially from company to company within our industry depending upon accounting methods and book values of assets, capital structures and the method by which the assets were acquired.

We define Adjusted EBITDA Margin as Adjusted EBITDA divided by total sales.

We define Adjusted Free Cash Flow as Adjusted EBITDA less *maintenance capital expenditures*. We believe that Adjusted Free Cash Flow is useful to investors as it provides a measure of the ability of our business to generate cash.

We define Adjusted Free Cash Flow Margin as Adjusted Free Cash Flow divided by total sales.

We define Adjusted Free Cash Flow Conversion as Adjusted Free Cash Flow divided by Adjusted EBITDA.

We define Contribution Margin as gross profit plus depreciation, depletion and accretion expense.

We define Maintenance Capital Expenditures as capital expenditures excluding growth capital expenditures.

Adjusted EBITDA, Adjusted EBITDA Margin, Adjusted Free Cash Flow, Adjusted Free Cash Flow Margin, Adjusted Free Cash Flow Conversion and Contribution Margin do not represent and should not be considered alternatives to, or more meaningful than, net income, income from operations, cash flows provided by operating activities or any other measure of financial performance presented in accordance with GAAP as measures of our financial performance. Adjusted EBITDA and Adjusted Free Cash Flow have important limitations as analytical tools because they exclude some but not all items that affect net income, the most directly comparable GAAP financial measure. Our computation of Adjusted EBITDA and Adjusted Free Cash Flow may differ from computations of similarly titled measures of other companies.

The following table presents a reconciliation of Adjusted EBITDA, Adjusted EBITDA Margin, Adjusted Free Cash Flow, Adjusted Free Cash Flow Margin, Adjusted Free Cash Flow Conversion and Contribution Margin to the most directly comparable GAAP financial measure for the periods indicated.

	Predecessor			
	Three Months Ended March 31,		Year Ended December 31,	
	2022	2021	2021	2020
	(In thousands, except percentages)			
	(unaudited)	(unaudited)		
Net income (loss)(1)	\$ 20,846	\$ (5,335)	\$ 4,258	\$ (34,442)
Depreciation, depletion and accretion expense	6,483	5,685	24,604	21,579
Interest expense, net, excluding loss on extinguishment of debt	3,990	8,500	30,276	32,819
Income tax expense	225	103	831	372
EBITDA	\$ 31,544	\$ 8,953	\$ 59,969	\$ 20,328
Unit-based compensation expense	205	28	129	2,545
Impairment of long-lived assets	—	—	—	1,250
Reduction in workforce expense	—	—	—	426
Loss on disposal of property, plant and equipment	—	—	—	118
Loss on extinguishment of debt	—	—	11,922	—
Unrealized commodity derivative gain	(768)	—	(66)	—
Adjusted EBITDA	\$ 30,981	\$ 8,981	\$ 71,954	\$ 24,667
Maintenance Capital Expenditures	\$ 8,646	\$ 2,047	\$ 7,715	\$ 4,981
Adjusted Free Cash Flow	\$ 22,335	\$ 6,934	\$ 64,239	\$ 19,686

	Predecessor			
	Three Months Ended March 31,		Year Ended December 31,	
	2022	2021	2021	2020
	(In thousands, except percentages)			
	(unaudited)	(unaudited)		
Cash from operating activities	\$ 23,699	\$ 4,469	\$ 21,356	\$ 12,486
Repayment of paid-in-kind interest borrowings	—	—	22,233	—
Current income tax expense (benefit)(2)	225	103	471	(294)
Change in operating assets and liabilities	3,105	1,305	8,622	(369)
Cash interest expense(2)	3,734	3,103	19,173	12,136
Maintenance capital expenditures(2)	(8,646)	(2,047)	(7,715)	(4,981)
Other	218	1	99	282
Reduction in workforce expense	—	—	—	426
Adjusted Free Cash Flow	\$ 22,335	\$ 6,934	\$ 64,239	\$ 19,686
Adjusted EBITDA Margin	51.8%	28.2%	41.7%	22.1%
Adjusted Free Cash Flow Margin	37.3%	21.8%	37.3%	17.6%
Adjusted Free Cash Flow Conversion	72.1%	77.2%	89.3%	79.8%

	Predecessor			
	Three Months Ended March 31,		Year Ended December 31,	
	2022	2021	2021	2020
	(In thousands)			
	(unaudited)	(unaudited)		
Gross Profit	\$ 29,242	\$ 7,464	\$ 64,067	\$ 17,767
Depreciation, depletion and accretion expense	6,167	5,448	23,681	20,887
Contribution Margin	\$ 35,409	\$ 12,912	\$ 87,748	\$ 38,654

(1) Pro forma net income (loss) reflects pro forma income tax expense of \$ _____ and \$ _____ for the year ended December 31, 2021 and the three months ended March 31, 2022, respectively, associated with the income tax effects of this offering and the corporate reorganization described under the section titled "Corporate Reorganization." Atlas Inc. is a corporation and is subject to U.S. federal income tax. Our Predecessor is and was generally not subject to U.S. federal income tax at an entity level. As a result, the consolidated net income in our Predecessor's historical financial statements does not reflect the tax expense we would have incurred if we had been subject to U.S. federal income tax at an entity level during such periods.

(2) A reconciliation of the adjustment of these items used to calculate Adjusted Free Cash Flow to the Consolidated Financial Statements is included below.

	Predecessor			
	Three Months Ended March 31,		Year Ended December 31,	
	2022	2021	2021	2020
	(In thousands)			
	(unaudited)			
<u>Current tax expense reconciliation:</u>				
Income tax expense	\$ 225	\$ 103	\$ 831	\$ 372
Less: deferred tax expense	—	—	(360)	(666)
Current income tax expense	<u>\$ 225</u>	<u>\$ 103</u>	<u>\$ 471</u>	<u>\$ (294)</u>
<u>Cash interest expense reconciliation:</u>				
Interest expense, net, excluding loss on extinguishment of debt	\$ 3,990	\$ 8,500	\$ 30,276	\$ 32,819
Less: Interest paid-in-kind through issuance of additional term loans	—	(3,039)	(3,039)	(11,794)
Less: Amortization of debt discount	(109)	(2,158)	(7,320)	(8,110)
Less: Amortization of deferred financing costs	(109)	(199)	(739)	(791)
Less: Other	(38)	(1)	(5)	12
Cash interest expense	<u>\$ 3,734</u>	<u>\$ 3,103</u>	<u>\$ 19,173</u>	<u>\$ 12,136</u>
<u>Maintenance capital expenditures, accrual basis reconciliation:</u>				
Purchases of property, plant and equipment	\$ 6,037	\$ 1,725	\$ 19,371	\$ 9,532
Changes in operating assets and liabilities associated with investing activities(3)	3,592	1,390	2,362	(844)
Less: Growth capital expenditures and capital lease additions	(983)	(1,068)	(14,018)	(3,707)
Maintenance capital expenditures, accrual basis	<u>\$ 8,646</u>	<u>\$ 2,047</u>	<u>\$ 7,715</u>	<u>\$ 4,981</u>
<p>(3) Positive working capital changes reflect capital expenditures in the current period that will be paid in a future period. Negative working capital changes reflect capital expenditures incurred in a prior period but paid during the period presented.</p>				

RISK FACTORS

Investing in our Class A common stock involves risks. The risks described below as well as information in this prospectus should be considered carefully, including our consolidated financial statements and the notes thereto, and the matters addressed under the sections titled "Management's Discussion and Analysis of Financial Condition and Results of Operations" and "Cautionary Statement Regarding Forward-Looking Statements," before making an investment decision. The risks and uncertainties described below are not the only ones we face. Additional risks not presently known to us or that we currently deem immaterial may also materially affect our business. The occurrence of any of the following risks or additional risks and uncertainties that are currently immaterial or unknown could materially and adversely affect our business, financial condition, liquidity, results of operations, cash flows and prospects. In such an event, the trading price of our Class A common stock could decline, and you may lose all or part of your investment.

Risks Related to Our Business and Operations

Our proppant production and logistics operations depend on the level of activity in the oil and natural gas industries, which experience substantial volatility.

Our operations that produce and transport proppant are materially dependent on the levels of activity in oil and natural gas exploration, development and production. More specifically, the demand for the proppant we produce is closely related to the number of oil and natural gas wells completed in geological formations where sand-based proppant is used in fracture treatments. These activity levels are affected by both short- and long-term trends in oil and natural gas prices. In recent years, oil and natural gas prices and, therefore, the level of exploration, development and production activity, have experienced significant volatility.

When oil and natural gas prices decrease, exploration and production companies may reduce their exploration, development, production and well completion activities. During such periods, demand for our product and services which supply oil and natural gas wells, including our transportation and logistics solutions, may decline, and may lead to a decline in the market price of proppant, if the supply of proppant is not similarly reduced. When demand for proppant increases, there may not be a corresponding increase in the prices for our products or our customers may not increase use of our products, which could have an adverse effect on our business, financial condition and results of operations.

Worldwide economic, political and military events, including war, terrorist activity, events in the Middle East and initiatives by the Organization of the Petroleum Exporting Countries ("OPEC"), have contributed, and are likely to continue to contribute, to oil and natural gas price volatility. For example, in February 2022, Russia invaded Ukraine and is still engaged in active armed conflict against the country. The conflict and the sanctions imposed in response have led to regional instability and caused dramatic fluctuations in global financial markets and have increased the level of global economic uncertainty, including uncertainty about world-wide oil supply and demand, which in turn has caused increased volatility in commodity prices. Additionally, warmer than normal winters in North America and other weather patterns may adversely impact the short-term demand for natural gas and, therefore, demand for our products. Reduction in demand for natural gas to generate electricity could also adversely impact the demand for proppant. In addition, any future decrease in the rate at which oil and natural gas reserves are discovered or developed, whether due to increased governmental regulation, limitations on exploration and drilling activity, technological innovations that result in new processes for oil and natural gas production that do not require proppant or other factors, could adversely affect the demand for our products, even in a stronger oil and natural gas price environment. Moreover, the energy transition to a low carbon economy, increased deployment of renewable power generation,

renewable fuels and electric vehicles all have the potential to reduce demand for oil and natural gas and consequently the services we provide. The continued or future occurrence of any of these risks could have an adverse effect on our business, financial condition and results of operations.

Our business is subject to the cyclical nature of our customers' businesses and on the oil and natural gas industry.

Our business is directly affected by capital spending to explore for, develop and produce oil and natural gas in the United States. The oil and natural gas industry is cyclical and historically has experienced periodic downturns in activity. During periods of economic slowdown in one or more of the industries or geographic regions we serve or in the worldwide economy, our customers often reduce their production and capital expenditures by deferring or canceling pending projects, even if such customers are not experiencing financial difficulties. These developments can have an adverse effect on sales of our products and our results of operations.

Weakness in the industries we serve has had, and may in the future have, an adverse effect on sales and our results of operations. A continued or renewed economic downturn in one or more of the industries that we serve, or in the worldwide economy, could cause actual results of operations to differ materially from historical and expected results.

Industry conditions are influenced by numerous factors over which we have no control, including:

- expected economic returns to exploration and production (“E&P”) companies of new well completions;
- domestic and foreign economic conditions and supply of and demand for oil and natural gas;
- the level of prices, and expectations about future prices, of oil and natural gas;
- the level of global oil and natural gas exploration and production, and inventories;
- federal, state and local regulation of hydraulic fracturing and exploration and production activities;
- United States federal, tribal, state and local and non-United States governmental laws, regulations and taxes, including the policies of governments regarding the exploration for and production and development of their oil and natural gas reserves;
- changes in the transportation industry that services our business, including the price and availability of transportation;
- political and economic conditions in oil and natural gas producing countries, including uncertainty or instability resulting from civil unrest, terrorism or war, such as the current conflict between Russia and Ukraine;
- actions by members of OPEC, Russia and other oil-producing countries with respect to oil production levels and announcements of potential changes in such levels, including the failure of such countries to comply with supply limitation and production cuts;
- global or national health epidemics, such as the ongoing COVID-19 pandemic (including the spread of variants or mutant strains);
- political or civil unrest in the United States or elsewhere;
- worldwide political, military and economic conditions;
- stockholder activism or activities by non-governmental organizations to limit certain sources of funding for the energy sector or restrict the exploration, development and production of oil and natural gas;

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- advances in exploration, development and production technologies or in technologies affecting energy consumption; and
- the potential acceleration of development of alternative fuels.

Decreased demand for frac sand or the development of technically and cost-effective alternative proppants or new processes to replace hydraulic fracturing would negatively impact our business.

Frac sand is the most commonly used proppant in the completion and re-completion of oil and natural gas wells through hydraulic fracturing. A significant shift in demand from frac sand to other proppants, such as ceramic proppant, the development and use of other effective alternative proppants, or the development of new processes to replace hydraulic fracturing altogether, could cause a decline in demand for frac sand that we produce and would have an adverse effect on our business, financial condition and results of operations.

In addition, fuel conservation measures, alternative fuel requirements and increasing consumer demand for alternatives to oil and natural gas could reduce demand for oil and natural gas. The impact of the reduced demand for oil and natural gas may have an adverse effect on our business, financial condition, prospects, results of operations and cash flows. Additionally, the increased competitiveness of alternative energy sources (such as wind, solar, geothermal, tidal and biofuels) could reduce demand for oil and natural gas and therefore for our product and services, which would lead to a reduction in our revenues and negatively impact our business, financial condition and results of operations.

Our future performance will depend on our ability to succeed in competitive markets and on our ability to appropriately react to potential fluctuations in demand for, and supply of, our products and services.

We operate in a highly competitive market that is characterized by a small number of large, national producers and a larger number of small, regional or local producers. Transportation costs are a significant portion of the total cost to customers of frac sand (in many instances transportation costs can represent more than 50% of delivered cost), the frac sand market is typically local, and competition from beyond the local area is limited. Further, competition in the industry is based on customer relationships, reliability of supply, consistency and quality of product, customer service, site location, distribution capability, breadth of product offering, technical support and price.

Some of our competitors may have or may develop greater financial, natural and other resources than we do. Periodically, some of our competitors may reduce the pricing that they offer to our customers for a variety of reasons. One or more of our competitors may develop technology superior to ours or may have production facilities located in closer proximity to certain customer location than we do. For example, mobile mines may be able to mine resources in close proximity to wells, enabling them to deliver sand with significantly lower transportation costs. When the demand for hydraulic fracturing services decreases or the supply of proppant available in the market increases, prices in the frac sand market can materially decrease. Our competitors may choose to consolidate, which could provide them with greater financial and other resources than us and improve their competitive positioning. Furthermore, oil and natural gas exploration and production companies and other providers of hydraulic fracturing services have acquired, and in the future may acquire, their own frac sand reserves to fulfill their proppant requirements, and these other market participants may expand their existing frac sand production capacity, all of which would negatively impact demand for our frac sand. In addition, increased competition in the proppant industry could have an adverse impact on our ability to enter into long-term contracts or to enter into contracts on favorable terms.

Past performance by members of our management team, our directors or their respective affiliates may not be indicative of future performance of an investment in us.

Information regarding performance by, or businesses associated with, our management team, our directors and their affiliates is presented for informational purposes only. Past performance of our management team, our directors and their affiliates is not a guarantee of our future success or similar results. You should not rely on the historical record of the performance of our management team, our directors or their affiliates as being indicative of the future performance of an investment in us or the returns we will, or are likely to, generate going forward.

Increasing costs, a lack of dependability or availability of transportation services or infrastructure or an oversupply of transportation services could have an adverse effect on our business, financial condition and results of operations.

The transportation industry is subject to possible legislative and regulatory changes that may affect the economics of the industry by requiring changes in operating practices or by changing the demand or the cost of providing truckload services.

Transportation and related costs tend to be a significant component of the total delivered cost to our customers purchasing our frac sand. The high relative cost of transportation related expense tends to favor manufacturers located in close proximity to the customer. Additionally, increases in the price of transportation costs, including freight charges, fuel surcharges and demurrage costs, could negatively impact operating costs if we are unable to pass those increased costs along to our customers. Failure to find long-term solutions to these logistical challenges could adversely affect our ability to respond quickly to the needs of our customers or result in additional increased costs, and thus could negatively impact our business, results of operations and financial condition.

Our operations are subject to operational hazards and inherent risks, some of which are beyond our control, and some of which may not be fully covered by insurance.

Our business and operations may be affected by natural or man-made disasters and other external events, many of which are not in our control. In addition to the other risks described in these risk factors, these risks include:

- unanticipated ground, grade or water conditions;
- environmental hazards;
- physical facility security breaches;
- inability to acquire or maintain necessary permits or mining or water rights;
- failure to maintain dust controls and meet restrictions on respirable crystalline silica dust;
- failures in quality control systems or training programs;
- technical difficulties or key equipment failures;
- inability to obtain necessary mining or production equipment or replacement parts;
- fires, explosions or industrial accidents or other accidents; and
- facility shutdowns in response to environmental regulatory actions.

These hazards can also cause personal injury and loss of life, severe damage to and destruction of property and equipment, pollution or environmental damage and suspension or cancellation of operations. Any prolonged downtime or shutdowns at our mining properties or production facilities

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could have an adverse effect on our business, financial condition and results of operations. In addition, our operations are subject to, and exposed to, employee/employer liabilities and risks such as wrongful termination, discrimination, labor organizing, retaliation claims and general human resource related matters.

Not all of these risks are reasonably insurable, and our insurance coverage contains limits, deductibles, exclusions and endorsements. Our insurance coverage may not be sufficient to meet our needs in the event of loss and any such loss may have an adverse effect on our business, financial condition and results of operations.

Our ability to produce our products economically and in commercial quantities could be impaired if we are unable to acquire adequate supplies of water for our dredging operations.

The dredging process that we currently employ to produce from our Kermit and Monahans facilities requires significant quantities of water from the aquifer underlying our acreage. If in the future there is insufficient capacity available from this aquifer to provide a source of water for our dredging and associated processes as a result of drought or similar conditions affecting the environment, we will be required to obtain water from other sources that may not be available, or may be too costly, and we may be unable to continue our dredge mining operations entirely. The effects of climate change may also further exacerbate water scarcity in certain regions, including at the aquifer on our acreage. If such an event were to require us to discontinue dredging and resume operations using traditional proppant production processes, this could impair our cost of operations and ability to economically produce our reserves and would have an adverse effect on our financial condition, results of operations and cash flows.

Failure to maintain effective quality control systems at our mining and production facilities could have an adverse effect on our business, financial condition and operations.

The quality and safety of our products are critical to the success of our business. These factors depend significantly on the effectiveness of our quality control systems, which, in turn, depend on a number of factors, including the design of our quality control systems, our quality-training program and our ability to ensure that our employees adhere to the quality control policies and guidelines. Any significant failure or deterioration of our quality control systems could have an adverse effect on our business, financial condition, results of operations and reputation.

Given the nature of our proppant production operations, we face a material risk of liability, delays and increased cash costs of production from environmental and industrial accidents and operational breakdowns.

Our business involves significant risks and hazards, including environmental hazards, industrial accidents and breakdowns of equipment and machinery. Our electric dredge mining operations are subject to delays and accidents associated with electrical supply, repositioning and maintenance. Furthermore, during operational breakdowns, the relevant facility may not be fully operational within the anticipated timeframe, which could result in further business losses. The occurrence of any of these or other hazards could delay production, suspend operations, increase repair, maintenance or medical costs and, due to the integration of our facilities, could have an adverse effect on the productivity and profitability of a particular facility or on our business as a whole. Although insurance policies provide limited coverage for these risks, such policies will not fully cover some of these risks.

The development of the Dune Express system is a complex and challenging process that may take longer and cost more than estimated, or not be completed at all. In addition, successful development and operation of the Dune Express system will depend on certain factors that may be outside of our control, and the storage and transportation capacity or other anticipated benefits of our Dune Express system may not be achieved.

We may encounter adverse geological conditions, regulatory procedures or other legal requirements that could impede the construction or operation of the Dune Express system. The inability to obtain any permits and other federal, state or local approvals that may be required, and any excessive delays in obtaining such permits and approvals due, for example, to litigation or third-party appeals, could potentially prevent us from successfully constructing and operating the Dune Express system in a timely manner.

We plan to engage qualified construction firms to perform work associated with the construction of the Dune Express system. However, if such firms experience delays, if they perform sub-standard work or if we fail to properly monitor the quality of their work or the timeliness of their progress, we may not be able to complete construction or begin operation of the Dune Express system by the date or at the cost currently estimated. In any such circumstance, we could also face difficulties meeting certain delivery obligations to our customers or incur additional costs in making such deliveries by truck or other alternative means. Any material delay caused by our construction firms and subcontractors could therefore ultimately impact our ability achieve the anticipated benefits of the Dune Express system and its integrated mining facilities and have an adverse effect on our business, financial condition and results of operations.

Operation of the Dune Express system will depend on transmission and distribution facilities. If transmission to the Dune Express system or any of its integrated mining facilities were to be interrupted physically, mechanically or with cyber means, it may hinder our ability to mine, sell or deliver frac sand to our customers, satisfy our contractual obligations or otherwise operate or fully realize the expected benefits of the Dune Express system.

A negative shift in investor sentiment towards the oil and natural gas industry and increased attention to ESG and conservation matters may adversely impact our business.

Increasing attention to climate change, societal expectations on companies to address climate change, investor and societal expectations regarding voluntary ESG disclosures, and consumer demand for alternative sources of energy may result in increased costs, reduced demand for our customers' hydrocarbon products and our product and services, reduced profits, increased legislative and judicial scrutiny, investigations and litigation, and negative impacts on our stock price and access to capital markets. Increasing attention to climate change and environmental conservation, for example, may result in demand shifts for our customers' hydrocarbon products and additional governmental investigations and private litigation against those customers. To the extent that societal pressures or political or other factors are involved, it is possible that liability could be imposed on our customers without regard to their causation of or contribution to the asserted damage, or to other mitigating factors. To date, however, changes in societal pressures and consumer demand related to increased attention to ESG and conservation matters have not had a material impact on our customers' operations or otherwise materially and adversely affected our business. Voluntary disclosures regarding ESG matters, as well as any ESG disclosures mandated by law, could result in private litigation or government investigation or enforcement action regarding the sufficiency or validity of such disclosures. In addition, failure or a perception (whether or not valid) of failure to implement ESG strategies or achieve ESG goals or commitments, including any GHG reduction or neutralization goals or commitments, could result in private litigation and damage our reputation, cause our investors or consumers to lose confidence in our Company, and negatively impact our operations.

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In addition, organizations that provide information to investors on corporate governance and related matters have developed ratings processes for evaluating companies on their approach to ESG matters. Such ratings are used by some investors to inform their investment and voting decisions. Unfavorable ESG ratings and recent activism directed at shifting funding away from companies with energy-related assets could lead to increased negative investor sentiment toward us or our customers and to the diversion of investment to other industries, which could have a negative impact on our stock price and our or operators' access to and costs of capital. Also, institutional lenders may, of their own accord, decide not to provide funding for fossil fuel industry companies based on climate change related concerns, which could affect our or our customers' access to capital for potential growth projects.

Our business may suffer if we lose or are unable to attract and retain members of our workforce.

We depend to a large extent on the services of our senior management team and other key personnel. These employees have extensive experience and expertise in evaluating and analyzing industrial mineral properties, maximizing production from such properties, marketing industrial mineral production and developing and executing financing and hedging strategies.

Competition for management and key personnel is intense, and the pool of qualified candidates is limited. The loss of any of these individuals or the failure to attract additional personnel as needed could have an adverse effect on our operations and could lead to higher labor costs or the use of less-qualified personnel. In addition, if any of our executives or other key employees were to join a competitor or form a competing company, we could lose customers, suppliers, know-how and other personnel. Our operations also rely on skilled laborers using modern techniques and equipment to mine efficiently. We may be unable to train or attract the necessary number of skilled laborers to maintain our operating costs.

With respect to our trucking services, the industry periodically experiences a shortage of qualified drivers, particularly during periods of economic expansion, in which alternative employment opportunities are more plentiful and freight demand increases, or during periods of economic downturns, in which unemployment benefits might be extended. The trucking industry suffers from a high driver turnover rate, which requires us to continually recruit a substantial number of drivers to operate our equipment and could negatively affect our operations and expenses if we are unable to do so. Our success will be dependent on our ability to continue to attract, employ and retain highly skilled personnel at all levels of our operations.

A shortage of skilled labor together with rising labor costs in the excavation industry may further increase operating costs, which could adversely affect our business, results of operations and financial condition.

Efficient sand excavation using modern techniques and equipment requires skilled laborers, preferably with several years of experience and proficiency in multiple tasks, including processing of mined minerals. If there is a shortage of experienced labor in areas in which we operate, we may find it difficult to hire or train the necessary number of skilled laborers to perform our own operations which could have an adverse impact on our business, results of operations and financial condition.

As a result of the volatility of the oilfield services industry and the demanding nature of the work, workers may choose to pursue employment in fields that offer a more desirable work environment at wage rates that are competitive. Increased competition for their services could result in a loss of available, skilled workers or at a price that is not as advantageous to our business, both of which could negatively affect our operating results. If we are unable to retain or meet growing demand for skilled technical personnel, our operating results and our ability to execute our growth strategies may be adversely affected.

Inaccuracies in our estimates of sand reserves and resource deposits, or deficiencies in our title to those deposits, could result in our inability to mine the deposits or require us to pay higher than expected costs.

We base our sand reserve and resource estimates on engineering, economic and geological data assembled and analyzed by our mining engineers, which are reviewed periodically by outside firms. However, frac sand reserve estimates are by nature imprecise and depend to some extent on statistical inferences drawn from available drilling data, which may prove unreliable. There are numerous uncertainties inherent in estimating quantities and qualities of frac sand reserves and non-reserve frac sand deposits and costs to mine recoverable reserves, many of which are beyond our control and any of which could cause actual results to differ materially from our expectations. These uncertainties include:

- geological and mining conditions that may not be fully identified by available data or that may differ from experience;
- assumptions regarding the effectiveness of our mining, quality control and training programs;
- assumptions concerning future prices of frac sand, operating costs, mining technology improvements, development costs and reclamation costs; and
- assumptions concerning future effects of regulation, including the issuance of required permits and taxes by governmental agencies.

In addition, title to, and the area of, mineral properties and water rights may also be disputed. Mineral properties sometimes contain claims or transfer histories that examiners cannot verify. A successful claim that we do not have title to one or more of our properties or lack appropriate water rights could cause us to lose any rights to explore, develop and extract any minerals on that property, without compensation for our prior expenditures relating to such property. Any inaccuracy in our estimates related to our mineral reserves and non-reserve mineral deposits, or our title to such deposits, could result in our inability to mine the deposits or require us to pay higher than expected costs.

Further, the SEC has adopted amendments to its disclosure rules (the "SEC Modernization Rules") to modernize the mineral property disclosure requirements for issuers whose securities are registered with the SEC under the Exchange Act, which are codified in Regulation S-K subpart 1300. Under the SEC Modernization Rules, the historical property disclosure requirements for mining registrants included in SEC Industry Guide 7 have been replaced. As a result of the adoption of the SEC Modernization Rules, the SEC now recognizes estimates of "measured mineral resources," "indicated mineral resources" and "inferred mineral resources." However, compared to mineralization that has been characterized as reserves, mineralization described using these terms has a greater amount of uncertainty as to their existence and whether they can be mined legally or economically, and investors are therefore cautioned not to assume that any reported "measured mineral resources," "indicated mineral resources" or "inferred mineral resources" are or will be economically or legally mineable.

All of our product sales are currently generated at two facilities. Any adverse developments at those facilities could have an adverse effect on our business, financial condition and results of operations.

All of our product sales are currently derived from our Kermit and Monahans facilities located in Winkler and Ward Counties in Texas. Any adverse development at these facilities due to catastrophic events or weather, adverse government regulatory impacts, transportation-related constraints or any other event that could cause us to curtail, suspend or terminate operations at

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either of these facilities, could result in us being unable to deliver our contracted volumes and related obligations. Although we maintain insurance coverage to cover a portion of these types of risks, there could be potential risks associated with our operations not covered by insurance. There also may be certain risks covered by insurance where the policy does not reimburse us for all of the costs related to such risks. Downtime or other delays or interruptions to our future operations that are not covered by insurance could have an adverse effect on our business, results of operations and financial condition. In addition, under our supply contracts, if we are unable to deliver contracted volumes, we may be required to pay liquidated damages that could have an adverse effect on our financial condition and results of operations.

Our operations consume large amounts of natural gas and electricity. An increase in the price or a significant interruption in the supply of these or any other energy sources could have an adverse effect on our business, financial condition and results of operations.

Natural gas and electricity costs represented approximately 5.3% and 1.4%, respectively, of our total product sales for the three months ended March 31, 2022, as compared to 5.6% and 2.6%, respectively, for the three months ended March 31, 2021. Natural gas and electricity costs represented approximately 4.9% and 1.6%, respectively, of our total product sales in the year ended December 31, 2021, and 2.0% and 1.6%, respectively, in the year ended December 31, 2020. Potential climate change regulations or carbon or emissions taxes could result in higher cost of production for energy, which may be passed on to us in whole or in part. A significant increase in the price of energy that is not recovered through an increase in the price of our product and services or covered through our hedging arrangements or an extended interruption in the supply of electricity or natural gas to our production facilities could have an adverse effect on our business, results of operations and financial condition.

A large portion of our sales is generated by our top 10 customers, and the loss of or a significant reduction in purchases by our largest customers could adversely affect our business, financial condition and results of operations.

Our 10 largest customers accounted for approximately 71.7% of total sales for the three months ended March 31, 2022, as compared to 73.3% for the three months ended March 31, 2021. During the years ended December 31, 2021 and 2020, our 10 largest customers accounted for 75.6% and 81.4% of total sales, respectively. Some of our customers have exited or could exit the business, or have been or could be acquired by other companies that purchase proppant solutions or logistics services we provide from other third-party providers. Our current customers also may seek to acquire frac sand or logistics services from other providers that offer more competitive pricing or capture and develop their own sources of proppant solutions or logistics services. The loss of a customer or contract, or a reduction in the amount of proppant solutions or logistics services purchased by any customer, could have an adverse effect on our business, financial condition and results of operations. Further, as a result of market conditions, competition or other factors, these customers may not continue to purchase the same levels of our products in the future, if at all. Substantial reductions in purchase volumes across these customers could have an adverse effect on our business, financial condition and results of operations.

Upon the expiration of our current contracts, our customers may not continue to purchase the same levels of proppant solutions or logistics services due to a variety of reasons. In addition, we may choose to renegotiate our existing contracts on less favorable terms or at reduced volumes in order to preserve relationships with our customers. Any renegotiation of our contracts on less favorable terms, or inability to enter into new contracts on economically acceptable terms upon the expiration of our current contracts, could have an adverse effect on our business, financial condition and results of operations.

Our business and operations depend on our and our customers' ability to obtain and maintain necessary permits.

We and our customers hold numerous governmental, environmental, mining and other permits and approvals authorizing operations at each of our facilities. Our future success depends on, among other things, our ability, and the ability of our customers, to obtain and maintain the necessary permits and licenses required to conduct operations. In order to obtain permits and renewals of permits in the future, we may be required to prepare and present data to governmental authorities pertaining to the impact that our activities may have on the environment. Compliance with these regulatory requirements is expensive and significantly lengthens the time needed to conduct operations. Additionally, obtaining or renewing required permits is sometimes delayed, conditioned or prevented due to community opposition, opposition from other parties, the location of existing or proposed third-party operations, or other factors beyond our control. The denial of a new or renewed permit essential to our operations, delays in obtaining such a permit or the imposition of conditions in order to acquire the permit could impair our ability to continue operations at the affected facilities, delay those operations, or involve significant unplanned costs, any of which could adversely affect our business, performance and financial condition.

Our supply agreements may preclude us from taking advantage of increasing prices for proppant or mitigating the effect of increased operational costs during the term of those contracts.

The supply agreements we have may negatively impact our results of operations. Our sales contracts require our customers to pay a specified price for a specified volume of proppant. Although most of our supply agreements provide for price adjustments based on various factors, such adjustments are generally calculated on a quarterly basis and do not adjust dollar-for-dollar with adjustments in spot market prices. As a result, in periods with increasing prices our sales will not keep pace with market prices.

Additionally, if our operational costs increase during the terms of our supply agreements, we will not be able to pass some of those increased costs to our customers. If we are unable to otherwise mitigate these increased operational costs, our net income could decline.

A proppant production facility closure entails substantial costs, and if we close any of our facilities sooner than anticipated, our results of operations may be adversely affected.

We base our assumptions regarding the life of our proppant production facilities on detailed studies that we perform from time to time, but our studies and assumptions do not always prove to be accurate. If we close any of our proppant production facilities sooner than expected, sales will decline unless we are able to increase production at any of our other proppant production facilities, which may not be possible. The closure of a proppant production facility may also involve significant fixed closure costs, including accelerated employment legacy costs, severance-related obligations, and potentially reclamation and other environmental costs and the costs of terminating long-term obligations, including energy contracts and equipment leases. We accrue for the estimated costs to retire the assets over the expected timing of settlement. If we were to reduce the estimated time to settlement, the fixed proppant production facilities closure costs could be applied to a shorter period of production, which would increase production costs per ton produced and could adversely affect our results of operations and financial condition.

In addition, some environmental laws such as the Comprehensive Environmental Response, Compensation and Liability Act ("CERCLA"), impose strict, retroactive and joint and several liability for the remediation of releases of hazardous substances.

Certain of our contracts contain provisions requiring us to deliver minimum amounts of sand-based proppant. If we are unable to meet our minimum requirements under these contracts, we may be required to pay penalties or the contract counterparty may be able to terminate the agreement.

In certain instances, we commit to deliver products under penalty of nonperformance. We commit to deliver products to our customers prior to production, and we are obligated to deliver a minimum volume of sand-based proppant per year or per month under our supply agreements over their respective terms. Depending on the contract, our inability to deliver the requisite volume of sand-based proppant may permit our customers to terminate the agreement or require us to pay our customers a fee, the amount of which is generally calculated by multiplying the difference between the amount of volume contracted for and the amount delivered by a per-ton penalty specified in the contract. In such events, our results of operations may be adversely affected.

Currently, all of our operations are concentrated in the Permian Basin, making us vulnerable to risks associated with operating in a limited geographic area.

Currently, all of our operations are geographically concentrated in the Permian Basin. As a result, we may be disproportionately exposed to various factors, including, among others: (i) the impact of regional supply and demand factors, (ii) delays or interruptions of completion activity in such areas caused by governmental regulation, (iii) processing or transportation capacity constraints, (iv) market limitations, (v) availability of equipment and personnel or (vi) water shortages or other drought related conditions. This concentration in a limited geographic area also increases our exposure to changes in local laws and regulations, certain lease stipulations designed to protect wildlife and unexpected events that may occur in the regions such as natural disasters, seismic events, industrial accidents or labor difficulties. Any of the risks described above could have an adverse effect on our business, financial condition, results of operations and cash flow.

An increase in the supply of frac sand having similar characteristics as the frac sand we produce could make it more difficult for us to renew or replace our existing contracts on favorable terms, or at all.

If significant new reserves of frac sand are discovered and developed and have similar characteristics to the frac sand we produce, we may be unable to renew or replace our existing contracts on favorable terms, if at all. Specifically, if frac sand is oversupplied, our customers may not be willing to enter into long-term take-or-pay contracts, may demand lower prices or both, which would have an adverse effect on our business, results of operations and financial condition. Similarly, the ongoing COVID-19 pandemic has caused a historic slowdown in oil and natural gas activity, which has led to an increase in available proppant supply relative to the reduced demand. The foregoing events have led to increased competition among our competitors, which could lead to pressure to further reduce prices to compete effectively.

Our results of operations are significantly affected by the market price of sand-based proppant, which have been historically subject to substantial price fluctuations.

Our results of operations and financial conditions are, and will continue to be, particularly sensitive to the long- and short-term changes in the market price of sand-based proppant. Among other factors, these prices also affect the value of our reserves and inventories, and could negatively impact the market price of our Class A common stock.

Market prices are affected by numerous factors beyond our control, including, among others, demand for high quality sand-based proppant, the availability and relative cost of alternate sources of sand, drilling and completion activity in the Permian Basin, prevailing commodity prices and overall economic activity.

Additionally, when demand for sand-based proppant increases, there may not be a corresponding or immediate increase in the prices for our products or our customers may choose to opt for lower-quality, lower priced products, which could have an adverse effect on our results of operations and financial condition. For example, the average price of frac sand F.O.B. minegate in the Permian Basin in 2019 was approximately \$17.86 per ton, compared to a low of approximately \$13.25 per ton in 2020 during the COVID-19 pandemic. As activity recovered during 2021, the average price of delivered frac sand increased to approximately \$ per ton, recovering only a portion of the previous price decrease. In addition, any future decreases in the rate at which oil and natural gas reserves are discovered or developed, whether due to increased governmental regulation, limitations on exploration and drilling activity, including hydraulic fracturing or other factors, could have an adverse effect on our business and financial condition, even in a stronger oil and natural gas price environment.

Our E&P customers' operations are subject to operating risks that are often beyond our control and could have an adverse effect on our business, financial condition and results of operations.

In addition to the sand-based proppant that we supply, the operations of our E&P customers rely on several other products and services in order to perform hydraulic fracturing activities, such as skilled laborers and equipment required for pumping proppant, water and fluids into oil and natural gas wells. Any failure by our E&P customers to obtain these other products and services could have an adverse effect on our business, financial condition and results of operations.

Our business and operations could suffer in the event of cybersecurity breaches, information technology system failures, network disruptions or other cyber security risks. A cyber incident could occur and result in information theft, data corruption, operational disruption and/or financial loss.

We rely on our information technology systems and other digital information to process transactions, summarize our operating results, deliver our systems, perform many of our services and manage our business and operations. In the ordinary course of our business, we collect and store sensitive data, including our proprietary business information and personally identifiable information of our employees. Our information technology systems and networks, and those of our customers, vendors, suppliers and other business partners, are subject to damage or interruption from power outages; computer and telecommunications failures; computer viruses; cyberattack or other security breaches; catastrophic events, such as fires, floods, earthquakes, tornadoes, hurricanes, acts of war or terrorism; and usage errors by our employees. If our information technology systems are damaged or cease to function properly, we may need to make a significant investment to fix or replace them, and we may suffer loss of critical data and interruptions or delays in our operations.

We have been the target of cyberattacks, and while to date none of these incidents has had a material impact on us, we expect to continue to be targeted in the future. Our risk and exposure to these matters remains heightened because of, among other things, the evolving nature of these threats, the current global economic and political environment, the outsourcing of some of our business operations, the ongoing shortage of qualified cybersecurity professionals and the interconnectivity and interdependence of third parties to our systems.

As cyber incidents continue to evolve, we will likely be required to expend additional resources to continue to modify or enhance our protective measures or to investigate and remediate any vulnerability to cyber incidents. In addition, any technology required for any mandate by authorities requiring the transition to remote work increases our vulnerability to cybersecurity threats, including threats to gain unauthorized access to sensitive information or to render data or systems. Any material disruption in our information technology systems or systems that affect our business operations, delays

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or difficulties in implementing or integrating new systems or enhancing current systems, or any vulnerabilities rendering data or systems unusable following any mandated remote work situations, could have an adverse effect on our business and results of operations.

The systems we employ to detect and prevent cyberattacks may be insufficient to protect us from an incident or to allow us to minimize the magnitude and effects of such incident for a significant period of time. The occurrence of a cyberattack, breach, unauthorized access, misuse, computer virus or other cybersecurity event could jeopardize our systems, interrupt our operations or result in the unauthorized disclosure, gathering, monitoring, misuse, corruption, loss or destruction of confidential and other information that belongs to us, our customers, our counterparties or third-party service providers that is processed and stored in, and transmitted through, our computer systems and networks. Any such event could result in significant losses, loss of customers and business opportunities, reputational damage, litigation, regulatory fines, penalties or intervention, reimbursement or other compensatory costs, or otherwise adversely affect our business, financial condition or results of operations.

Our business and results of operations have been adversely affected by, and may again in the future be adversely affected by, the ongoing COVID-19 pandemic.

Public health crises, pandemics and epidemics, such as the ongoing COVID-19 pandemic, have adversely impacted, and may again adversely impact our operations, the operations of our customers and the global economy, including the worldwide demand for oil and natural gas and the level of demand for our product and services. Fear of such events has also altered the level of capital spending by oil and natural gas companies for exploration and production activities and has adversely affected global economies and financial markets, resulting in an economic downturn that has affected demand for our product and services. For instance, the outbreak of COVID-19 and its development into a pandemic has caused governmental authorities to impose mandatory closures, seek voluntary closures and impose restrictions on, or advisories with respect to, travel, business operations and public gatherings or interactions. Though we are currently deemed an essential business and, as a result, are exempt from many orders in their current form, the impact of the ongoing COVID-19 pandemic, and measures to prevent its spread, have adversely affected our businesses in a number of ways.

The COVID-19 pandemic (including the spread of variants of mutant strains) may significantly worsen during the upcoming months, which may cause governmental authorities to consider further restrictions on business and social activities. In the event governmental authorities increase restrictions, the re-opening of the economy may be further curtailed. We have experienced, and expect to continue to experience, some resulting disruptions to our business operations, as these restrictions have significantly impacted, and may continue to impact, many sectors of the economy. For example, the COVID-19 pandemic has caused one of the most challenging times in the recent history of the North-American E&P industry. The rig count in the Permian Basin decreased from a peak of 488 in 2019 to a trough of 117 in 2020, however our revenues and net cash provided by operating activities only contracted from \$140.1 million and \$22.7 million, respectively, for the year ended December 31, 2019, to \$111.8 million and \$12.5 million, respectively, for the year ended December 31, 2020, before recovering to \$172.4 million and \$21.4 million, respectively, for the year ended December 31, 2021.

The global impact of the ongoing COVID-19 pandemic continues to evolve, and we will continue to monitor the situation closely. The ultimate impact of the pandemic (including the spread of variants of mutant strains) on our business, financial condition and results of operations is highly uncertain and subject to change, and will depend on future developments, including the duration of the outbreak within the United States and the related impact on the oil and natural gas industry, the impact of governmental actions designed to prevent the spread of COVID-19 and the availability of effective treatments and vaccines, all of which cannot be predicted with certainty at this time. While vaccines

have become available in most countries and many economies have reopened, the status of the global recovery remains uncertain and unpredictable, especially in light of new variant strains. Business activity may not recover as quickly as anticipated, and widespread recovery will be impacted by future developments, including future waves of outbreak or new variant strains of the virus which may require re-closures or other preventative measures. Conditions will be subject to the effectiveness of government policies, vaccine administration rates, and other factors that may not be foreseeable. Any of the foregoing could adversely affect our business, results of operations and financial condition.

Risks Related to Our Financial Condition

We may be unable to generate sufficient cash to service all of our indebtedness and financial commitments.

Our ability to make scheduled payments on or to refinance our indebtedness and financial commitments depends on our financial condition and operating performance, which are subject to prevailing economic and competitive conditions including financial, business and other factors beyond our control. We may be unable to generate sufficient cash flow to permit us to pay the principal, premium, if any, and interest on our indebtedness.

If our cash flows and capital resources are insufficient to fund debt and other obligations, we may be forced to reduce or delay capital expenditures, sell assets, seek additional capital or restructure our indebtedness. Our ability to restructure or refinance indebtedness will depend on the condition of the capital markets and our financial condition at such time. Any refinancing of indebtedness could be at higher interest rates and may require us to comply with more onerous covenants, which could further restrict our operations. The terms of existing or future debt instruments may restrict us from adopting some of these alternatives. In addition, any failure to service our debt would likely result in a reduction of our future credit rating, if any, which could harm our ability to incur additional indebtedness. If we face substantial liquidity problems, we might be required to sell assets to meet debt and other obligations. Our debt restricts our ability to dispose of assets and dictates our use of the proceeds from such disposition. We may not be able to consummate dispositions, and the proceeds of any such disposition may be inadequate to meet our obligations.

We may be unable to access adequate funding as a result of a decrease in the borrowing base under the ABL Credit Facility or base due to an unwillingness or inability on the part of lending counterparties to meet their funding obligations and the inability of other lenders to provide additional funding to cover a defaulting lender's portion. As a result, we may be unable to execute our development plan, make acquisitions or otherwise conduct operations, which would have an adverse effect on our financial condition and results of operations.

Our indebtedness could adversely affect our financial flexibility and our competitive position.

On October 20, 2021, we entered into the Term Loan Credit Facility. As of March 31, 2022, \$173.7 million of the principal amount of the term loan was outstanding under the Term Loan Credit Facility. The proceeds of the Term Loan Credit Facility were used, among other uses, to repay all outstanding indebtedness under the 2018 Term Loan Credit Facility. The term loan outstanding under the Term Loan Credit Facility bears interest at a rate of 8.47% per annum.

Atlas LLC has, and we expect to maintain in the near term, a significant amount of indebtedness. Under our ABL Credit Agreement, the ABL Lenders provide revolving credit financing to the Company in an aggregate principal amount of up to \$50.0 million with availability thereunder subject to a borrowing base as described in the ABL Credit Agreement. As of March 31, 2022, we had no loans outstanding under our ABL Credit Facility and we were using \$0.4 million for outstanding letters of credit, leaving \$26.0 million of borrowing availability under our ABL Credit Facility.

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Our debt agreements contain a number of significant covenants that may limit our ability to, among other things:

- incur additional indebtedness;
- sell or convey assets;
- make loans to or investments in others;
- enter into mergers;
- make certain payments;
- hedge future production or interest rates;
- incur liens;
- pay dividends; and
- engage in certain other transactions without the prior consent of the lenders.

Our indebtedness could also have important consequences to you and significant effects on our business, including:

- increasing our vulnerability to adverse changes in general economic, industry and competitive conditions;
- requiring us to dedicate a substantial portion of our cash flow from operations to make payments on our indebtedness, thereby reducing the availability of our cash flow to fund working capital, capital expenditures and other general corporate purposes, including dividend payments;
- restricting us from exploiting business opportunities;
- making it more difficult to satisfy our financial obligations, including payments on our indebtedness;
- disadvantaging us when compared to our competitors that have less debt; and
- increasing our borrowing costs or otherwise limiting our ability to borrow additional funds for the execution of our business strategy.

In addition, the amounts owed under our ABL Credit Facility use the London Interbank Offered Rate (“LIBOR”) as a benchmark for establishing the rate at which interest accrues. In accordance with regulatory requirements and guidance, LIBOR is being phased out as a benchmark interest rate for commercial loan transactions. As a result, we anticipate that our ABL Credit Facility may be amended to replace LIBOR with a different benchmark reference rate. The effects of such replacement cannot be entirely predicted but could include an increase in the cost to us of this indebtedness.

Changes to applicable tax laws and regulations, exposure to additional income tax liabilities, changes in our effective tax rates or an assessment of taxes resulting from an examination of our income or other tax returns could adversely affect our results of operations and financial condition, including our ability to repay our debt.

We are subject to various complex and evolving U.S. federal, state and local taxes. U.S. federal, state and local tax laws, policies, statutes, rules, regulations or ordinances could be interpreted, changed, modified or applied adversely to us, in each case, possibly with retroactive effect, and may have an adverse effect on our results of operations and financial condition, including our ability to repay our debt. For example, several tax proposals have been set forth that would, if enacted into law,

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make significant changes to U.S. tax laws. Such proposals include, but are not limited to, (i) an increase in the U.S. income tax rates applicable to individuals and corporations, (ii) the elimination of tax subsidies for fossil fuels, (iii) the imposition of a minimum tax on book income for certain corporations and (iv) the imposition of an excise tax on certain corporate stock repurchases that would be borne by the corporation repurchasing such stock. Congress may consider, and could include, some or all of these proposals in connection with tax reform that may be undertaken. It is unclear whether these or similar changes will be enacted and, if enacted, how soon any such changes could take effect. The passage of any legislation as a result of these proposals and other similar changes in U.S. federal income tax laws could adversely affect our results of operations and financial condition.

Changes in our effective tax rates or tax liabilities could also adversely affect our results of operations and financial condition. Our future effective tax rates could be subject to volatility or adversely affected by a number of factors, including:

- changes in the valuation of our deferred tax assets and liabilities;
- expected timing and amount of the release of any tax valuation allowances;
- expansion into future activities in new jurisdictions;
- the availability of tax deductions, credits, exemptions, refunds and other benefits to reduce tax liabilities; and
- tax effects of share-based compensation.

In addition, an adverse outcome arising from an examination of our income or other tax returns could result in higher tax exposure, penalties, interest or other liabilities that could have an adverse effect on our results of operations and financial condition.

We will need substantial additional capital to operate our business, and the inability to obtain needed capital or financing, on satisfactory terms, or at all, whether due to restrictions in our ABL Credit Facility, Term Loan Credit Facility or otherwise, could have an adverse effect on our growth and profitability.

Our business plan requires a significant amount of capital expenditures to maintain and grow our production levels over the long term. Although we currently use a significant amount of our cash reserves and cash generated from our operations to fund the maintenance and development of our existing sand reserves, we may need to depend on external sources of capital to fund future capital expenditures if frac sand prices were to decline for an extended period of time, if the costs of our operations were to increase substantially or if other events were to occur that reduce our sales or increase our costs. Our ability to obtain bank financing or to access the capital markets for future equity or debt offerings may be limited by our financial condition at the time of any such financing or offering, adverse market conditions or other contingencies and uncertainties that are beyond our control. Our failure to obtain the funds necessary to maintain, develop and increase our asset base could adversely impact our growth and profitability.

In addition, our existing ABL Credit Facility and Term Loan Credit Facility contain, and any future financing agreements we may enter into could also contain, operating and financial restrictions and covenants that may limit our ability to finance future operations or capital needs or to engage in, expand or pursue our business activities.

Our ability to comply with these restrictions and covenants is uncertain and will be affected by the levels of cash flow from our operations and events and circumstances beyond our control, including the ongoing COVID-19 pandemic (including the spread of variants of mutant strains). If market or other

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economic conditions deteriorate, our ability to comply with these covenants may be impaired. If we violate any of the restrictions or covenants in our ABL Credit Facility and Term Loan Credit Facility, a significant portion of our indebtedness may become immediately due and payable and our lenders' commitment to make further loans to us may terminate. We might not have, or be able to obtain, sufficient funds to make these accelerated payments. In addition, our obligations under our Term Loan Credit Facility are secured by substantially all of our assets, and if we are unable to repay our indebtedness or satisfy our other obligations under these, the lenders could seek to foreclose on our assets.

Even if we are able to maintain existing financing or access the capital markets, incurring additional debt may significantly increase our interest expense and financial leverage, and our indebtedness could restrict our ability to fund future development and acquisition activities. In addition, the issuance of any additional equity interests may result in significant dilution to our common stockholders.

We are subject to counterparty credit risk. Nonpayment or nonperformance by our customers, suppliers or vendors could have an adverse effect on our business, liquidity, financial condition and results of operations.

We are subject to the risk of loss resulting from nonpayment or nonperformance by our customers, suppliers and vendors. Our credit procedures and policies may not be adequate to fully eliminate customer credit risk. If we fail to adequately assess the creditworthiness of existing or future customers or unanticipated deterioration in their creditworthiness, any resulting increase in nonpayment or nonperformance by them and our inability to re-market or otherwise use the production could have an adverse effect on our business, results of operations and financial condition. A decline in oil and natural gas prices could negatively impact the financial condition of our customers and sustained lower prices could impact their ability to meet their financial obligations to us. Further, our contract counterparties may not perform or adhere to our existing or future contractual arrangements. To the extent one or more of our contract counterparties is in financial distress or commences bankruptcy proceedings, contracts with these counterparties may be subject to renegotiation or rejection under applicable provisions of the United States Bankruptcy Code. Any material nonpayment or nonperformance by our contract counterparties due to inability or unwillingness to perform or adhere to contractual arrangements could adversely affect our business and results of operations. If our customers delay or fail to pay us a significant amount of our outstanding receivables, it could have an adverse effect on our business, liquidity financial condition and results of operations.

If we fail to comply with the restrictions and covenants in our debt agreements, there could be an event of default under the terms of such agreements, which could result in an acceleration of payment.

A breach of any representation, warranty or covenant in any of our debt agreements would result in a default under the applicable agreement after any applicable grace periods. A default could result in acceleration of the indebtedness which would have an adverse effect on us. If an acceleration occurs, it would likely accelerate all of our indebtedness through cross-default provisions and we would likely be unable to make all of the required payments to refinance such indebtedness. Even if new financing were available at that time, it may not be on terms that are acceptable to us.

Any future indebtedness could adversely affect our financial condition.

We will, subject to the terms and conditions in the ABL Credit Agreement and availability under the borrowing base described therein, be able to borrow up to \$50.0 million under our ABL Credit Facility and anticipate that up to \$ under the Term Loan Credit Facility will remain outstanding after giving effect to the use of the net proceeds of this offering.

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In addition, subject to the limits contained in our ABL Credit Facility and Term Loan Credit Facility, we may incur substantial additional debt from time to time. Any borrowings we may incur in the future would have several important consequences for our future operations, including that:

- covenants contained in the documents governing such indebtedness may require us to meet or maintain certain financial tests, which may affect our flexibility in planning for, and reacting to, changes in our industry, such as being able to take advantage of acquisition opportunities when they arise;
- our ability to obtain additional financing for working capital, capital expenditures, acquisitions, general corporate and other purposes may be limited;
- we may be competitively disadvantaged to our competitors that are less leveraged or have greater access to capital resources; and
- we may be more vulnerable to adverse economic and industry conditions.

If we incur indebtedness in the future, we may have significant principal payments due at specified future dates under the documents governing such indebtedness. Our ability to meet such principal obligations will be dependent upon future performance, which in turn will be subject to general economic conditions, industry cycles and financial, business and other factors affecting our operations, many of which are beyond our control. Our business may not continue to generate sufficient cash flow from operations to repay any incurred indebtedness. If we are unable to generate sufficient cash flow from operations, we may be required to sell assets, to refinance all or a portion of such indebtedness or to obtain additional financing.

Risks Related to Environmental, Mining and Other Regulations

Silica-related health issues and legislation, including compliance with existing or future regulations relating to respirable crystalline silica, or litigation could have an adverse effect on our business, reputation or results of operations.

We are subject to laws and regulations relating to human exposure to crystalline silica. For example, the federal Occupational Safety and Health Act ("OSHA") has implemented rules establishing a more stringent permissible exposure limit for exposure to respirable crystalline silica and provided other provisions to protect employees. These rules require compliance with engineering control obligations to limit exposures to respirable crystalline silica in connection with hydraulic fracturing activities. In June 2022, the DOL's Mine Safety and Health Administration ("MSHA") launched a new enforcement initiative to better protect U.S. miners from health hazards resulting from repeated overexposure to respirable crystalline silica. MSHA reports that silica dust affects thousands of miners each year and, without adequate protection, miners face risks of serious illnesses, many of which can be fatal.

As part of the program, MSHA will conduct silica dust-related mine inspections and expand silica sampling at mines, while providing mine operators with compliance assistance and best practices to limit miners' exposure to silica dust.

Specifically, the silica enforcement initiative will include:

- Spot inspections at mines with a history of repeated silica overexposures to closely monitor and evaluate health and safety conditions.
- Increased oversight and enforcement of known silica hazards at mines with previous citations for exposing miners to silica dust levels over the existing permissible exposure limit of 100 micrograms. For mines where the operator has not timely abated hazards, MSHA will issue a withdrawal order until the silica overexposure hazard has been abated.

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- Expanded silica sampling at mines to ensure inspectors' samples represent the mines, commodities, and occupations known to have the highest risk for overexposure.
- A focus on sampling during periods of the mining process that present the highest risk of silica exposure for miners. For coal mines, those processes include shaft and slope sinking, extended cuts and developing crosscuts, while sampling will focus on miners working to remove overburden.
- Reminding miners about their rights to report hazardous health conditions, including any attempt to tamper with the sampling process.

In addition, the DOL's Educational Field and Small Mine Services staff will provide compliance assistance and outreach to mine operators, unions and other mining community organizations to promote and advance protections for miners. The MSHA initiative is intended to take immediate action to reduce the risks of silica dust exposure as the DOL's development of a mining industry standard continues.

If we are unable to satisfy these obligations, or are not able to do so in a manner that is cost effective or attractive to our customers, our business operations may be adversely affected or availability or demand for our products could be significantly affected. Federal and state regulatory authorities, including OSHA and MSHA, and analogous state agencies may continue to propose changes in their regulations regarding workplace exposure to crystalline silica, such as permissible exposure limits and required controls and personal protective equipment, and we can provide no assurance that we will be able to comply with any future laws and regulations relating to exposure to crystalline silica that are adopted, or that costs of complying with such future laws and regulations would not have an adverse effect on our operating results by requiring us to modify or cease our operations.

In addition, the inhalation of respirable crystalline silica is associated with health risks, including the lung disease silicosis. There is evidence of an association between crystalline silica exposure or silicosis and lung cancer and possible association with other diseases, including immune system disorders such as scleroderma. These health risks have been, and may continue to be, a significant issue confronting the hydraulic fracturing industry. Concerns over silicosis and other potential adverse health effects, as well as concerns regarding potential liability from the use of hydraulic fracture sand, may have the effect of discouraging our customers' use of hydraulic fracture sand. The actual or perceived health risks of handling hydraulic fracture sand could adversely affect hydraulic fracturing service providers, including us, through reduced use of hydraulic fracture sand, the threat of product liability or employee lawsuits naming us as a defendant, increased scrutiny by federal, state and local regulatory authorities of us and our customers or reduced financing sources available to the hydraulic fracturing industry.

Over the past few decades, a number of companies that utilize silica in their operations have been named as a defendant, usually among many defendants, in numerous product liability lawsuits brought by or on behalf of current or former employees or customers alleging damages caused by silica exposure. The silica-related litigation brought against us to date and associated litigation costs, settlements and verdicts have not resulted in a material liability to us, and we presently maintain insurance policies where available. However, we may continue to have silica exposure claims filed against us in the future, including claims that allege silica exposure for periods or in areas not covered by insurance, and the costs, outcome and impact to us of any pending or future claims is not certain. Any such pending or future claims or inadequacies of our insurance coverage could have a material adverse effect on our business, reputation, financial condition, and results of operations.

Federal, state and local legislative and regulatory initiatives relating to hydraulic fracturing and the potential for related litigation could result in increased costs, additional operating restrictions or delays for our customers, which could cause a decline in the demand for our frac sand and negatively impact our business, results of operations and financial condition.

We supply frac sand to hydraulic fracturing operators in the oil and natural gas industry. Hydraulic fracturing is an important practice that is used to stimulate production of oil and natural gas from low permeability hydrocarbon bearing subsurface rock formations. The hydraulic fracturing process involves the injection of water, proppant, and chemicals under pressure into the formation to fracture the surrounding rock, increase permeability and stimulate production.

Although we do not directly engage in hydraulic fracturing activities, our customers purchase our frac sand for use in their hydraulic fracturing activities. Hydraulic fracturing is typically regulated by state oil and natural gas commissions and similar agencies. Some states have adopted, and other states are considering adopting, regulations that could impose new or more stringent permitting, disclosure or well construction requirements on hydraulic fracturing operations. Aside from state laws, local land use restrictions may restrict drilling in general or hydraulic fracturing in particular. Municipalities may adopt local ordinances attempting to prohibit hydraulic fracturing altogether or, at a minimum, allow such fracturing processes within their jurisdictions to proceed but regulating the time, place and manner of those processes. In addition, federal agencies have started to assert regulatory authority over the process and various studies have been conducted or are currently underway by the Environmental Protection Agency ("EPA"), and other federal agencies concerning the potential environmental impacts of hydraulic fracturing activities. At the same time, certain environmental groups have suggested that additional laws may be needed and, in some instances, have pursued voter ballot initiatives to more closely and uniformly limit or otherwise regulate the hydraulic fracturing process, and legislation has been proposed by some members of Congress to provide for such regulation.

The adoption of new laws or regulations at the federal, state or local levels imposing reporting obligations on, or otherwise limiting, delaying, restricting, or prohibiting the hydraulic fracturing process could make it more difficult to complete oil and natural gas wells, increase our customers' costs of compliance and doing business, and otherwise adversely affect the hydraulic fracturing services they perform, which could negatively impact demand for our frac sand. In addition, heightened political, regulatory, and public scrutiny of hydraulic fracturing practices could expose us or our customers to increased legal and regulatory proceedings, which could be time-consuming, costly, or result in substantial legal liability or significant reputational harm. We could be directly affected by adverse litigation involving us, or indirectly affected if the cost of compliance limits the ability of our customers to operate. Such costs and scrutiny could directly or indirectly, through reduced demand for our frac sand, have an adverse effect on our business, financial condition and results of operations.

We and our customers are subject to extensive environmental and occupational health and safety regulations that impose, and will continue to impose, significant costs and liabilities. In addition, future regulations, or more stringent enforcement of existing regulations, could increase those costs and liabilities, which could adversely affect our results of operations.

We are subject to a variety of federal, state and local environmental laws and regulations affecting the mining and mineral processing industry, including, among others, those relating to employee health and safety, environmental permitting and licensing, plant and wildlife protection, wetlands protection, air and water emissions, greenhouse gas emissions, water pollution, waste management, including the transportation and disposal of waste and other materials, remediation of soil and groundwater contamination, land use, reclamation and restoration of properties, hazardous materials and natural resources. These laws and regulations have imposed, and will continue to impose, numerous obligations on our operations and the operations of our customers, including the

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acquisition of permits or other approvals to conduct regulated activities, the imposition of restrictions on the types, quantities and concentrations of various substances that may be released into the environment or injected in non-productive formations below ground in connection with oil and natural gas drilling and production activities, the incurrence of capital expenditures to mitigate or prevent releases of materials from our equipment, facilities or from customer locations where we are providing services, the imposition of substantial liabilities for pollution resulting from our operations, and the application of specific health and safety criteria addressing worker protection. Some environmental laws impose substantial penalties for noncompliance, and others, such as CERCLA, impose strict, retroactive and joint and several liability for the remediation of releases of hazardous substances.

The denial of a permit essential to our operations or the imposition of conditions with which it is not practicable or feasible to comply could have an adverse effect on our business. Significant opposition to a permit by neighboring property owners, members of the public or other third parties or delay in the environmental review and permitting process also could impair or delay our operations.

Moreover, environmental requirements, and the interpretation and enforcement of these requirements, change frequently and have tended to become more stringent over time. Future environmental laws and regulations could restrict our ability to expand our facilities or extract our mineral deposits or could require us to acquire costly equipment or to incur other significant expenses in connection with our business. The costs associated with complying with such requirements, could have an adverse effect on our business, financial condition and results of operations.

Any failure by us or by our customers to comply with applicable environmental laws and regulations may cause governmental authorities to take actions that could adversely impact our operations and financial condition, including:

- assessment of sanctions including administrative, civil or criminal penalties;
- denial, modification, or revocation of permits or other authorizations;
- occurrence of restrictions, delays or cancellations in permitting or development or performance of projects or operations;
- imposition of injunctive obligations or other limitations on our operations, including cessation of operations; and
- requirements to perform site investigatory, remedial, or other corrective actions or the incurrence of capital expenditures.

Any such regulations could require us to modify existing permits or obtain new permits, implement additional pollution control technology, curtail operations, increase significantly our operating costs or impose additional operating restrictions among our customers that reduce demand for our services. Such permit proceedings are often subject to public notice and comment, and third parties, including nongovernmental environmental organizations, may challenge government actions related to permits required for our operations.

Further, our business activities present risks of incurring significant environmental costs and liabilities, including costs and liabilities resulting from our handling of oilfield and other wastes, because of air emissions and wastewater discharges related to our operations, and due to historical oilfield industry operations and waste disposal practices. Moreover, accidental releases or spills may occur in the course of our operations or at facilities where our wastes are taken for reclamation or disposal, and we cannot assure you that we will not incur significant costs and liabilities as a result of such releases or spills, including any third-party claims for injuries to persons or damages to properties or natural resources. Some environmental laws and regulations may impose strict liability, which means that in

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some situations we could be exposed to liability as a result of our conduct that was lawful at the time it occurred or the conduct of, or conditions caused by, prior operators or other third parties. Remedial costs and other damages arising as a result of environmental laws and costs associated with changes in environmental laws and regulations could be significant and have an adverse effect on our liquidity, consolidated results of operations and financial condition.

Laws and regulations protecting the environment generally have become more stringent in recent years and are expected to continue to do so, which could lead to material increases in costs for future environmental compliance and remediation. In particular, the ESA restricts activities that may result in a “take” of endangered or threatened species and provides for substantial penalties in cases where listed species are taken by being harmed. The DSL is one example of a species that, if listed as endangered or threatened under the ESA, could impact our operations and the operations of our customers. The DSL is found in the active and semi-stable shinnery oak dunes of southeastern New Mexico and adjacent portions of Texas, including areas where our customers operate and our frac sand facilities are located. The USFWS is currently conducting a thorough review to determine whether listing the dunes sagebrush lizard as endangered or threatened under the ESA is warranted. If the DSL is listed as an endangered or threatened species, our operations and the operations of our customers in any area that is designated as the DSL’s habitat may be limited, delayed or, in some circumstances, prohibited, and we and our customers could be required to comply with expensive mitigation measures intended to protect the DSL and its habitat. In 2021, we were accepted into the USFWS-approved CCAA for the DSL. We have supported and contributed to the development of the CCAA since its inception. Our participation in the CCAA and our other voluntary conservation measures for the benefit of the DSL, including plans to set aside as much as 17,000 acres for DSL habitat, helps reduce the risk of disruptions to our business and operations in the event the DSL is listed. Furthermore, new laws and regulations, amendment of existing laws and regulations, reinterpretation of legal requirements or increased governmental enforcement with respect to environmental matters could restrict, delay or curtail exploratory or developmental drilling for oil and natural gas by our customers and could limit our well servicing opportunities.

We may not be able to comply with any new or amended laws and regulations that are adopted, and any new or amended laws and regulations could have an adverse effect on our operating results by requiring us to modify our operations or equipment or shut down our facility. Additionally, our customers may not be able to comply with any new or amended laws and regulations, which could cause our customers to curtail or cease operations. We cannot at this time reasonably estimate our costs of compliance or the timing of any costs associated with any new or amended laws and regulations, or any material adverse effect that any new or modified standards will have on our customers and, consequently, on our operations.

Our and our customers’ operations are subject to a number of risks arising out of the threat of climate change, including regulatory, political, litigation and financial risks, which could result in increased operating and capital costs for our customers and reduced demand for our products and services.

In recent years, the U.S. Congress has considered legislation to reduce emissions of greenhouse gas (“GHGs”), including methane, a primary component of natural gas, and carbon dioxide, a byproduct of the burning of natural gas. It presently appears unlikely that comprehensive climate legislation will be passed by either house of Congress in the near future, although energy legislation and other regulatory initiatives are expected to be proposed that may be relevant to GHG emissions issues. In addition, a number of states are addressing GHG emissions, primarily through the development of emission inventories or regional GHG cap and trade programs. Depending on the particular program, we could be required to control GHG emissions or to purchase and surrender allowances for GHG emissions resulting from our operations. Independent of Congress, the EPA has

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adopted regulations controlling GHG emissions under its existing authority under the federal Clean Air Act (“CAA.”) For example, following its findings that emissions of GHGs present an endangerment to human health and the environment because such emissions contributed to warming of the earth’s atmosphere and other climatic changes, the EPA has adopted regulations under existing provisions of the CAA that, among other things establish construction and operating permit reviews for GHG emissions from certain large stationary sources that are already potential major sources for conventional pollutants. In addition, the EPA has adopted rules requiring the monitoring and reporting of GHG emissions from specified production, processing, transmission and storage facilities in the United States on an annual basis. In December 2015, over 190 countries, including the United States, reached an agreement to reduce global GHG emissions, also known as the Paris Agreement, which went into force in November 2016.

In April 2021, President Biden announced a goal of reducing the United States’ emissions by 50-52% below 2005 levels by 2030. In November 2021, the international community gathered again in Glasgow at the 26th Conference to the Parties on the UN Framework Convention on Climate Change (“COP26”), during which multiple announcements were made, including a call for parties to eliminate certain fossil fuel subsidies and pursue further action on non-CO2 GHGs. Relatedly, the United States and European Union jointly announced the launch of the “Global Methane Pledge,” which aims to cut global methane pollution at least 30% by 2030 relative to 2020 levels, including “all feasible reductions” in the energy sector. We cannot predict what additional legislative or regulatory requirements may result from these developments. Several states and geographic regions in the United States have also adopted legislation and regulations to reduce emissions of GHGs, including cap and trade regimes and commitments to contribute to meeting the goals of the Paris Agreement. It is not possible at this time to predict the timing and effects of climate change or to predict the timing or effect of rejoining the Paris Agreement or whether additional climate-related legislation, regulations or other measures will be adopted at the local, state, regional, national and international levels. To the extent that the United States and other countries implement the Paris Agreement or local, state, regional, national or international governments impose other climate change regulations on the oil and natural gas industry, it could have an adverse effect on our business because substantial limitations on GHG emissions could adversely affect demand for the oil and natural gas that is produced by our customers.

Governmental, scientific and public concern over the threat of climate change arising from GHG emissions has resulted in increasing political risks in the United States, including climate change-related pledges made by certain candidates elected to public office. President Biden has issued several executive orders focused on addressing climate change, including items that may impact our costs to produce, or demand for, oil and natural gas. Additionally, in November 2021, the Biden Administration released “The Long-Term Strategy of the United States: Pathways to Net-Zero Greenhouse Gas Emissions by 2050,” which establishes a roadmap to net-zero emissions in the United States by 2050 through, among other things, improving energy efficiency; decarbonizing energy sources via electricity, hydrogen and sustainable biofuels; and reducing non-CO2 GHG emissions, such as methane and nitrous oxide. The Biden Administration is also considering revisions to the leasing and permitting programs for oil and natural gas development on federal lands. For more information, see the risk below titled “—Any restrictions on oil and natural gas development on federal lands has the potential to adversely impact our operations and the operations of our customers.” Other actions that could be pursued may include the imposition of more restrictive requirements for the establishment of pipeline infrastructure or the permitting of LNG export facilities, as well as more strict GHG emission limitations for oil and natural gas facilities. Litigation risks are also increasing, as a number of entities have sought to bring suit against oil and natural gas companies in state or federal court, alleging, among other things, that such companies created public nuisances by producing fuels that contributed to climate change. Suits have also been brought against such companies under stockholder and consumer protection laws, alleging that companies have been aware of the adverse effects of climate change but failed to adequately disclose those impacts. To the extent these risks impact our customers, we may experience reduced demand for our frac sand.

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There are also increasing financial risks for fossil fuel producers as stockholders currently invested in fossil fuel energy companies may elect in the future to shift some or all of their investments into other sectors. Institutional lenders who provide financing to fossil fuel energy companies also have become more attentive to sustainable lending practices and some of them may elect not to provide funding for fossil fuel energy companies. For example, at COP26, the Glasgow Financial Alliance for Net Zero (“GFANZ”) announced that commitments from over 450 firms across 45 countries had resulted in over \$130 trillion in capital committed to net zero goals. The various sub-alliances of GFANZ generally require participants to set short-term, sector-specific targets to transition their financing, investing, and/or underwriting activities to net zero emissions by 2050. There is also a risk that financial institutions will be required to adopt policies that have the effect of reducing the funding provided to the fossil fuel sector. President Biden signed an executive order calling for the development of a “climate finance plan” and, separately, the Federal Reserve has joined the Network for Greening the Financial System, a consortium of financial regulators focused on addressing climate-related risks in the financial sector. In November 2021, the Federal Reserve issued a statement in support of the efforts of the NGFS to identify key issues and potential solutions for the climate-related challenges most relevant to central banks and supervisory authorities. Limitation of investments in and financings for fossil fuel energy companies could result in the restriction, delay or cancellation of drilling programs or development or production activities, which could reduce demand for our frac sand.

Additionally, in March 2022, the SEC proposed new rules relating to the disclosure of a range of climate-related risks. We are currently assessing this rule but at this time we cannot predict the ultimate impact of the rule on our business or those of our customers. The SEC is expected to finalize the rule in October 2022. To the extent this rule is finalized as proposed, we or our customers could incur increased costs related to the assessment and disclosure of climate-related risks and certain emissions metrics. In addition, enhanced climate disclosure requirements could accelerate the trend of certain stakeholders and lenders restricting or seeking more stringent conditions with respect to their investments in certain carbon intensive sectors.

Finally, many scientists have concluded that increasing concentrations of GHGs in the Earth’s atmosphere may produce climate changes that have significant physical effects, such as increased frequency and severity of storms, severe and persistent drought conditions, winter storms, floods and other climatic events; if any such effects were to occur, they could have an adverse effect on our operations and our customers’ exploration and production operations.

Restrictions on our operations and those of our customers intended to protect certain species of wildlife could have an adverse impact on our ability to expand some of our existing operations or limit our customers’ ability to develop new oil and natural gas wells.

Various federal and state statutes prohibit certain actions that adversely affect endangered or threatened species and their habitat, migratory birds, wetlands, and natural resources. These statutes include the ESA, the Migratory Bird Treaty Act (“MBTA”), and the federal Clean Water Act (“CWA”). The USFWS may designate critical habitat areas that it believes are necessary for survival of threatened or endangered species. As a result of a 2011 settlement agreement, the USFWS was required to determine whether to identify more than 250 species as endangered or threatened under the ESA by no later than completion of the agency’s 2017 fiscal year. The USFWS missed the deadline but reportedly continues to review new species for protected status under the ESA pursuant to the settlement agreement. A critical habitat designation could result in further material restrictions on federal land use or on private land use and could delay or prohibit land access or development. Where takings of or harm to species or damages to wetlands, habitat, or natural resources occur or may occur, government entities or at times private parties may act to prevent or restrict oil and natural gas exploration activities or seek damages for any injury, whether resulting from drilling or construction or releases of oil, wastes, hazardous substances or other regulated materials, and in some cases, criminal penalties may result. Similar protections are offered to migratory birds under the MBTA.

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The DSL is one example of a species that, if listed as endangered or threatened under the ESA, could impact our operations and the operations of our customers. The DSL is found in the active and semi-stable shinnery oak dunes of southeastern New Mexico and adjacent portions of Texas, including areas where our customers operate and our frac sand facilities are located. The USFWS is currently conducting a thorough review to determine whether listing the dunes sagebrush lizard as endangered or threatened under the ESA is warranted. However, on November 17, 2021, one environmental organization delivered a Notice of Intent to Sue to the U.S. Department of the Interior (“DOI”) and the USFWS for failing to timely list the DSL as endangered. To date, no action has been taken by the DOI or USFWS. If the DSL is listed as an endangered or threatened species, our operations and the operations of our customers in any area that is designated as the DSL’s habitat may be limited, delayed or, in some circumstances, prohibited, and we and our customers could be required to comply with expensive mitigation measures intended to protect the dunes sagebrush lizard and its habitat. However, in January 2021, USFWS approved a CCAA for the DSL. We were a contributor to and supporter of the CCAA since its inception and have since been accepted into the program. Our participation in the CCAA and our other voluntary conservation measures for the benefit of the DSL reduces the risk of disruptions to our business and operations in the event the DSL is listed.

Another species whose listing could impact the operations of our customers is the Lesser Prairie-Chicken. On June 1, 2021, USFWS proposed to list two distinct population segments of the lesser prairie-chicken under the ESA. USFWS was expected to announce its final decision on the proposed listing in June 2022, but has not yet taken final action. The territory of the Southern Distinct Population segment could overlap with the areas of operations of some of our customers. The identification or designation of further previously unprotected species as threatened or endangered in areas where we or our customers operate could cause us to incur increased costs arising from species protection measures or could result in limitations on our customers that result in reduced demand for our services, adversely affects the results of our operations.

Any restrictions on oil and natural gas development on federal lands has the potential to adversely impact our operations and the operations of our customers.

Many of our customers possess leases in New Mexico which are granted by the federal government and administered by the Bureau of Land Management (“BLM”), a federal agency. Operations conducted by our customers on federal oil and natural gas leases must comply with numerous additional statutory and regulatory restrictions. These leases contain relatively standardized terms requiring compliance with detailed regulations. Under certain circumstances, the BLM may require operations on federal leases to be suspended or terminated. Any such suspension or termination of our customers’ leases could reduce demand for our service and adversely impact the results of our operations.

Additionally, the Biden Administration has taken several actions to curtail oil and natural gas activities on federal lands. For example, on January 27, 2021, President Biden issued an executive order that instructed the Secretary of the Interior to pause new oil and natural gas leases on public lands, but not existing operations under valid leases or on tribal lands which the federal government merely holds in trust, pending completion of a comprehensive review and reconsideration of federal oil and natural gas permitting and leasing practices. This moratorium was later reversed by a federal district court in June 2021. Meanwhile, the DOI released a report on the federal oil and natural gas leasing program in November 2021 which included several recommendations for how to reform the program. Some of the report’s recommendations, including an increased royalty rate and a significant reduction in total available acreage have been incorporated into recent lease sales. While we cannot predict the ultimate impact of these changes or whether the DOI and BLM will implement further reforms, any revisions to the federal leasing or permitting process that make it more difficult for our customers to pursue operations on federal lands may adversely impact our operations. The outcome of

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litigation surrounding the Biden Administration's Social Cost of Carbon ("SCC") metric may also impact future regulatory decision-making and our customers' ability to obtain federal leases. In February 2022, a district court blocked the Biden Administration's use of its interim SCC value in agency decision-making. As a result the BLM's first quarter oil and gas lease sale was delayed. In March 2022, the Fifth Circuit stayed in the order while the government's appeal remains in progress. The ultimate result of this litigation may impact the character of new regulations on certain of the federal oil and gas leases of our customers, which in turn could impact our results of operations.

Additionally, oil and natural gas operations on federal lands, and related infrastructure projects, may be impacted by recent changes to National Environmental Policy Act ("NEPA") implementing regulations. In 2020, the Trump Administration made a variety of substantive and procedural changes to NEPA, including limiting the scope of review to the direct effects of a proposed project on the environment. A new 'Final Rule,' introduced by the Biden Administration in April 2022, which took effect in May 2022, reversed several changes introduced by the 2020 rule, including the scope limitations. The 2022 Final Rule requires NEPA reviews to incorporate consideration of indirect and cumulative impacts of the proposed project, including effects on climate change and GHGs, consistent with pre-2020 requirements. The new rule also allows agencies to create stricter NEPA rules as they see fit, but left in place the 2020 rule two-year time limit to complete environmental impact statements. While the ultimate impact of these changes or whether the DOI and the BLM will implement further reforms cannot be predicted, any revisions to the federal leasing or permitting process that makes it more difficult for our customers to operate economically on federal lands may materially and adversely impact our operations and results.

In addition to administrative and policy risks, operations on federal lands also face judicial risks. For example, in January 2022, a federal district court judge in Washington, DC vacated the results of the federal government's Lease Sale 257, effectively canceling the sale, on the grounds that the federal government failed to consider foreign consumption of oil and natural gas in its greenhouse gas emissions analysis. More recently, a June 2022 settlement approved by a federal district court in Washington, DC, obligates BLM to redo its environment reports under NEPA for all oil and gas leases sold between 2015 and 2020. The settlement stems from a 2016 lawsuit alleging that BLM was not properly accounting for the cumulative climate impacts of its federal leasing program. Separately, there is a risk that authorizations required for existing operations may be delayed to the point that it causes a business disruption, and we cannot guarantee that further action will not be taken to curtail oil and natural gas development on federal land. For example, certain lawmakers have proposed to reduce or ban further leasing on federal lands or to adopt further restrictions for same. To the extent such legislation is passed, it may adversely impact our customers' operations, which could negatively impact our financial performance or results of operations.

We and our customers are subject to regulations that impose stringent health and safety standards on numerous aspects of our operations.

Multiple aspects of our and our customers' operations are subject to health and safety standards, including our mining operations, our trucking operations, and employee exposure to crystalline silica.

Our mining operations are subject to the Mine Safety and Health Act of 1977 ("Mine Act"), as amended by the Mine Improvement and New Emergency Response Act of 2006, which imposes stringent health and safety standards on numerous aspects of mineral extraction and processing operations, including the training of personnel, operating procedures, operating equipment and other matters. Our operating locations are regularly inspected by the MSHA for compliance with the Mine Act.

The Department of Transportation ("DOT") and various state agencies exercise broad powers over our trucking services, generally governing matters including authorization to engage in motor

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carrier service, equipment operation, safety, and financial reporting. In addition, our operations must comply with the Fair Labor Standard Act, which governs such matters as wages and overtime, and which is administered by the DOL. We may be audited periodically by the DOT or the DOL to ensure that we are in compliance with these safety, hours-of-service, wage and other rules and regulations.

We are also subject to laws and regulations relating to human exposure to crystalline silica. Several federal and state regulatory authorities, including MSHA and OSHA, may continue to propose changes to their regulations regarding workplace exposure to crystalline silica, such as permissible exposure limits, required controls and personal protective equipment. Our failure to comply with existing or new health and safety standards, or changes in such standards or the interpretation or enforcement thereof, could require us or our customers to modify operations or equipment, shut down some or all operating locations, impose significant restrictions on our ability to conduct operations or otherwise have an adverse effect on our business, financial condition and results of operations.

We and our customers are subject to other extensive regulations, including licensing, plant and wildlife protection and reclamation regulation, that impose, and will continue to impose, significant costs and liabilities. In addition, future regulations, or more stringent enforcement of existing regulations, could increase those costs and liabilities, which could adversely affect our results of operations.

In addition to the regulatory matters described above, we and our customers are subject to extensive governmental regulation on matters such as permitting and licensing requirements, plant and wildlife protection, wetlands protection, reclamation and restoration activities at mining properties after mining is completed, the discharge of materials into the environment, and the effects that mining and hydraulic fracturing have on groundwater quality and availability. Our future success depends, among other things, on the quantity and quality of our frac sand deposits, our ability to extract these deposits profitably, and our customers being able to operate their businesses as they currently do.

In order to obtain permits and renewals of permits in the future, we may be required to prepare and present data to governmental authorities pertaining to the potential adverse impact that any proposed excavation or production activities, individually or in the aggregate, may have on the environment. Certain approval procedures may require preparation of archaeological surveys, endangered species studies, and other studies to assess the environmental impact of new sites or the expansion of existing sites. Compliance with these regulatory requirements is expensive and significantly lengthens the time needed to develop a site. Finally, obtaining or renewing required permits is sometimes delayed or prevented due to community opposition and other factors beyond our control. The denial of a permit essential to our operations or the imposition of conditions with which it is not practicable or feasible to comply could impair or prevent our ability to develop or expand a site. Significant opposition to a permit by neighboring property owners, members of the public, or other third parties, or delay in the environmental review and permitting process also could delay or impair our ability to develop or expand a site. New legal requirements, including those related to the protection of the environment, could be adopted that could adversely affect our mining operations (including our ability to extract or the pace of extraction of mineral deposits), our cost structure, or our customers' ability to use our frac sand. Such current or future regulations could have an adverse effect on our business, and we may not be able to obtain or renew permits in the future.

Risks Related to Our Class A Common Stock and Organizational Structure

We are a holding company. Our sole material asset after completion of this offering and our corporate reorganization will be our equity interest in Atlas LLC, and we will accordingly be dependent upon cash distributions from Atlas LLC to cover our taxes and corporate and overhead expenses, among other expenses.

We are a holding company and will have no material assets other than our equity interest in Atlas LLC. We will have no independent means of generating revenue. To the extent Atlas LLC has available cash and subject to the terms of any current or future debt instruments, the Atlas LLC Agreement will (i) require Atlas LLC to make pro rata cash distributions to the Atlas Unitholders, including us, in an amount sufficient to allow us to pay our taxes and (ii) permit us, as managing member of Atlas LLC, to cause Atlas LLC to make additional pro rata distributions to the Atlas Unitholders, including to the Legacy Owners that hold the membership interests in Atlas LLC that will be converted into a single class of common units in Atlas LLC (the "Atlas Units") and us, in an amount generally intended to allow such holders (other than us) to satisfy their respective income tax liabilities with respect to their allocable share of the income of Atlas LLC, based on certain assumptions and conventions, to the extent such liabilities exceed amounts otherwise distributed by Atlas LLC. We generally expect Atlas LLC to fund such distributions out of available cash. When Atlas LLC makes distributions, the Atlas Unitholders will be entitled to receive proportionate distributions based on their interests in Atlas LLC at the time of such distribution. In addition, the Atlas LLC Agreement will require Atlas LLC to make non-pro rata payments to us to reimburse us for our corporate and other overhead expenses, which payments will not be treated as distributions under the Atlas LLC Agreement. To the extent that we need funds and Atlas LLC or its subsidiaries are restricted from making such distributions or payments under applicable law or regulation or under the terms of the ABL Credit Agreement or any future financing arrangements, or are otherwise unable to provide such funds, our liquidity and financial condition could be adversely affected.

Moreover, because we will have no independent means of generating revenue, our ability to make tax payments is dependent on the ability of Atlas LLC to make distributions to us in an amount sufficient to cover our tax obligations. This ability, in turn, may depend on the ability of Atlas LLC's subsidiaries to make distributions to Atlas LLC. The ability of Atlas LLC, its subsidiaries and other entities in which it directly or indirectly holds an equity interest to make such distributions will be subject to, among other things, (i) the applicable provisions of Delaware law (or other applicable jurisdiction) that may limit the amount of funds available for distribution and (ii) restrictions in our debt instruments issued by Atlas LLC or its subsidiaries and other entities in which it directly or indirectly holds an equity interest.

Our stock prices and trading volumes could be volatile, and you may not be able to resell shares of your Class A common stock when desired, at or above the price you paid, or at all.

The stock market has experienced and continues to experience extreme price and volume fluctuations that have often been unrelated or disproportionate to the operating performance of the underlying businesses. In 2020, market volatility was especially high due to the ongoing COVID-19 pandemic. In addition, broad market fluctuations may adversely affect the market price of our Class A common stock, regardless of our actual operating performance. In addition to the other risks described in this section, the market price of our Class A common stock may fluctuate significantly in response to a number of factors, many of which we cannot control, including:

- our operating and financial performance;
- quarterly variations in the rate of growth of our financial indicator;
- the public reaction to our press releases, our other public announcements, and our filings with the SEC;

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- announcements by others in or affecting our industry or our customers;
- strategic actions by our competitors;
- our failure to meet revenue or earnings estimates by research analysts or other investors;
- changes in revenue or earnings estimates, or changes in recommendations or withdrawal of research coverage, by equity research analysts;
- inaccurate or unfavorable research or ratings published by industry analysts about our business, or a cessation of coverage of us by industry analysts;
- speculation in the press or investment community;
- the failure of research analysts to cover our Class A common stock;
- sales of our Class A common stock by us, the Legacy Owners (including following an exercise of the Redemption Right or Call Right, as defined below) or our stockholders, or the perception that such sales may occur;
- changes in accounting principles, policies, guidance, interpretations, or standards;
- additions or departures of key management personnel;
- actions by our stockholders;
- general market conditions, including fluctuations in commodity prices, sand-based proppant, or industrial and recreational sand-based products;
- our acquisition of, investment in or disposition of other businesses;
- domestic and international economic, legal and regulatory factors unrelated to our performance; and
- the realization of any of the risks described under this "Risk Factors" section.

Volatility in the market price or trading volume of our Class A common stock may make it difficult or impossible for you to sell your Class A common stock at or above the price at which you purchased the stock. As a result, you may suffer a loss on your investment. Securities class action litigation has often been instituted against companies following periods of volatility in the overall market and in the market price of a company's securities. This litigation, if instituted against us, could result in substantial costs, reduce our profits, divert our management's attention and resources and harm our business.

Investors in this offering will experience immediate and substantial dilution.

Based on an assumed initial public offering price of \$ _____ per share (the midpoint of the price range set forth on the cover of this prospectus), purchasers of our Class A common stock in this offering will experience an immediate and substantial dilution of \$ _____ per share in the as adjusted net tangible book value per share of Class A common stock from the initial public offering price, and our as adjusted net tangible book value as of _____ after giving effect to this offering and the transactions related thereto would be \$ _____ per share. This dilution is due in large part to earlier investors having paid substantially less than the initial public offering price when they purchased their shares. See the section titled "Dilution."

Future sales of our Class A common stock in the public market, or the perception that such sales may occur, could reduce our stock price, and any additional capital raised by us through the sale of equity or convertible securities may dilute your ownership in us.

We may sell additional shares of our Class A common stock in subsequent offerings. In addition, subject to certain limitations and exceptions, the Legacy Owners holding Atlas Units may redeem their

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Atlas Units for shares of Class A common stock (on a one-for-one basis, subject to conversion rate adjustments for stock splits, stock dividends and reclassification and other similar transactions) and then sell those shares of Class A common stock. Sales of substantial amounts of our Class A common stock (including shares issued in connection with an acquisition), or the perception that such sales could occur, may adversely affect prevailing market prices of our Class A common stock.

We cannot predict the size of future issuances of our Class A common stock or securities convertible into Class A common stock or the effect, if any, that future issuances and sales of shares of our Class A common stock will have on the market price of our Class A common stock. Sales of substantial amounts of our Class A common stock (including shares issued in connection with an acquisition), or the perception that such sales could occur, may adversely affect prevailing market prices of our Class A common stock.

Our principal stockholders collectively hold a significant amount of the voting power of our common stock.

Holders of Class A common stock and Class B common stock vote together as a single class on all matters presented to our stockholders for their vote or approval, except as otherwise required by applicable law or our certificate of incorporation.

Although the Legacy Owners are entitled to act separately in their own respective interests with respect to their ownership in us, if the Legacy Owners choose to act in concert, they will together have the ability to strongly influence the election of the members of our board of directors, and thereby our management and affairs. In addition, they will be able to strongly influence the outcome of all matters requiring stockholder approval, including mergers and other material transactions. The existence of significant stockholders may also have the effect of deterring hostile takeovers, delaying or preventing changes in control or changes in management, or limiting the ability of our other stockholders to approve transactions that they may deem to be in the best interests of our Company. Moreover, this concentration of stock ownership may also adversely affect the trading price of our Class A common stock to the extent investors perceive a disadvantage in owning stock of a company with a controlling stockholder.

Anti-takeover provisions in our organizational documents and Delaware law might discourage or delay acquisition bids or merger proposals, which may adversely affect the market price of our Class A common stock and limit the price investors might be willing to pay in the future for our Class A common stock.

Our amended and restated certificate of incorporation and amended and restated bylaws will contain provisions that may discourage unsolicited takeover proposals that stockholders may consider to be in their best interests. These provisions:

- authorize the issuance of undesignated preferred stock, the terms of which may be established and the shares of which may be issued without stockholder approval, and which may include super voting, special approval, dividend, or other rights or preferences superior to the rights of our Class A common stock;
- prohibit stockholder action by written consent, which requires all stockholder actions to be taken at a meeting of our stockholders;
- provide that our board of directors is expressly authorized to make, alter or repeal our Bylaws;
- establish advance notice requirements for nominations of directors or for proposing matters that can be acted upon by stockholders at stockholder meetings; and

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- prevent us from engaging in a business combination with a person who acquires at least 15% of our Class A common stock for a period of three years from the date such person acquired such Class A common stock, unless board or stockholder approval is obtained prior to the acquisition.

These anti-takeover provisions and other provisions under Delaware law could discourage, delay or prevent a transaction involving a change in control of our Company all together, even if doing so would benefit our stockholders. These provisions could also discourage proxy contests and make it more difficult for you and other stockholders to elect directors of your choosing and to cause us to take other corporate actions you desire. Further, the staggered board of directors and the ability of the board of directors to designate the terms of and issue new series of preferred stock may make the removal of management more difficult and may discourage transactions that otherwise could involve payment of a premium over prevailing market prices for our securities.

Our amended and restated certificate of incorporation will designate the Court of Chancery of the State of Delaware and, to the extent enforceable, the federal district courts of the United States of America as the sole and exclusive forum for certain types of actions and proceedings that may be initiated by our stockholders, which could limit our stockholders' ability to obtain a favorable judicial forum for disputes with us or our directors, officers, employees or agents.

Our amended and restated certificate of incorporation will provide that, unless we consent in writing to the selection of an alternative forum, the Court of Chancery of the State of Delaware will, to the fullest extent permitted by applicable law, be the sole and exclusive forum for (i) any derivative action or proceeding brought on our or our stockholders' behalf, (ii) any action asserting a claim of breach of a fiduciary duty owed by any of our current or former directors, officers, employees or agents to us or our stockholders, (iii) any action asserting a claim arising pursuant to any provision of the Delaware General Corporation Law (the "DGCL"), our amended and restated certificate of incorporation or our bylaws, (iv) any action as to which the DGCL confers jurisdiction to the Court of Chancery of the State of Delaware or (v) any other action asserting a claim against us that is governed by the internal affairs doctrine, in each such case subject to such Court of Chancery having personal jurisdiction over the indispensable parties named as defendants therein.

Our amended and restated certificate of incorporation will also provide that, to the fullest extent permitted by applicable law, the federal district courts of the United States will be the exclusive forum for resolving any complaint asserting a cause of action arising under the Securities Act. Notwithstanding the foregoing, the exclusive forum provision will not apply to suits brought to enforce any liability or duty created by the Exchange Act or any other claim for which the federal courts have exclusive jurisdiction. While the Delaware courts have determined that such choice of forum provisions are facially valid, a stockholder may nevertheless seek to bring a claim in a venue other than those designated in the exclusive forum provisions, and there can be no assurance that such provisions will be enforced by a court in those other jurisdictions. If a court were to find the exclusive-forum provisions contained in our amended and restated certificate of incorporation to be inapplicable or unenforceable in an action, we may incur additional costs associated with resolving such action in other jurisdictions, which could harm our business.

Any person or entity purchasing or otherwise acquiring any interest in shares of our capital stock will be deemed to have notice of, and consented to, the provisions of our amended and restated certificate of incorporation described in the preceding sentence. This choice of forum provision may limit a stockholder's ability to bring a claim in a judicial forum that it finds favorable for disputes with us or our directors, officers, employees or agents, which may discourage such lawsuits against us and such persons. Alternatively, if a court were to find these provisions of our amended and restated

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certificate of incorporation inapplicable to, or unenforceable in respect of, one or more of the specified types of actions or proceedings, we may incur additional costs associated with resolving such matters in other jurisdictions, which could adversely affect our business, financial condition or results of operations. For example, the Court of Chancery of the State of Delaware previously has determined that a provision stating that U.S. federal district courts are the exclusive forum for resolving any complaint asserting a cause of action arising under the Securities Act is not enforceable.

In certain circumstances, Atlas LLC may make tax distributions to the Atlas Unitholders, including us, and such tax distributions may be substantial. To the extent we receive tax distributions in excess of our actual tax liabilities and retain such excess cash, the Legacy Owners that hold Atlas Units would benefit from such accumulated cash balances if they exercise their Redemption Right.

To the extent Atlas LLC has available cash and subject to the terms of any current or future debt instruments, the Atlas LLC Agreement will (i) require Atlas to make pro rata cash distributions to the Atlas Unitholders, including us, in an amount sufficient to allow us to pay our taxes and (ii) permit us, as managing member of Atlas LLC, to cause Atlas LLC to make additional pro rata distributions to the Atlas Unitholders, including to the Legacy Owners that hold Atlas Units and us, in an amount generally intended to allow such holders (other than us) to satisfy their respective income tax liabilities with respect to their allocable share of the income of Atlas LLC, based on certain assumptions and conventions, to the extent such liabilities exceed amounts otherwise distributed by Atlas LLC. The amount of such tax distributions will be determined based on certain assumptions, including an assumed individual income tax rate, and will be calculated after taking into account other distributions (including other tax distributions) made by Atlas LLC. Because tax distributions will be made pro rata based on ownership and due to, among other items, differences between the tax rates applicable to us and the assumed individual income tax rate used in the calculation and requirements under the applicable tax rules that Atlas LLC's net taxable income be allocated disproportionately to its unitholders in certain circumstances, tax distributions may significantly exceed the actual tax liability for many of the Atlas Unitholders, including us. If we retain the excess cash it receives, the Legacy Owners that hold Atlas Units would benefit from any value attributable to such accumulated cash balances upon their exercise of the Redemption Right. However, we expect to take steps to eliminate any material cash balances. In addition, the tax distributions Atlas LLC may make may be substantial and may exceed the tax liabilities that would be owed by a similarly situated corporate taxpayer. Funds used by Atlas LLC to make tax distributions will not be available for reinvestment in our business, except to the extent we use the excess cash it receives to reinvest in Atlas LLC for additional units.

We are an "emerging growth company" and we cannot be certain if the reduced disclosure requirements applicable to emerging growth companies will make our Class A common stock less attractive to investors.

We are an "emerging growth company," as defined in the JOBS Act and we intend to take advantage of certain exemptions from various reporting requirements that are applicable to other public companies, including, but not limited to, not being required to comply with the auditor attestation requirements of Section 404 of the Sarbanes-Oxley Act, reduced disclosure obligations regarding executive compensation in our periodic reports and proxy statements, and exemptions from the requirements of holding a nonbinding advisory vote on executive compensation and stockholder approval of any golden parachute payments not previously approved. We intend to take advantage of these reporting exemptions until we are no longer an emerging growth company. We cannot predict if investors will find our Class A common stock less attractive because we will rely on these exemptions. If some investors find our Class A common stock less attractive as a result, there may be a less active trading market for our Class A common stock and our stock price may be more volatile.

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Additionally, for as long as we are an emerging growth company, unlike other public companies, we will not be required to, among other things: (i) comply with any new requirements if adopted by the PCAOB requiring mandatory audit firm rotation or a supplement to the auditor's report in which the auditor would be required to provide additional information about the audit and the financial statements of the issuer; (ii) provide certain disclosures regarding executive compensation required of larger public companies; or (iii) hold nonbinding advisory votes on executive compensation.

We will remain an emerging growth company for up to five years after our IPO, although we will lose that status sooner if we have more than \$1.07 billion of revenues in a fiscal year, have more than \$700 million in market value of our Class A common stock held by non-affiliates as of any June 30 or issue more than \$1.0 billion of non-convertible debt over a rolling three-year period.

To the extent that we rely on any of the exemptions available to emerging growth companies, you will receive less information about our executive compensation and internal control over financial reporting than issuers that are not emerging growth companies. If some investors find our Class A common stock to be less attractive as a result, there may be a less active trading market for our Class A common stock and our stock price may be more volatile.

We may issue preferred stock whose terms could adversely affect the voting power or value of our Class A common stock.

Our amended and restated certificate of incorporation will authorize us to issue, without the approval of our stockholders, one or more classes or series of preferred stock having such designations, preferences, limitations and relative rights, including preferences over our Class A common stock respecting dividends and distributions, as our board of directors may determine. The terms of one or more classes or series of preferred stock could adversely impact the voting power or value of our Class A common stock. For example, we might grant holders of preferred stock the right to elect some number of our directors in all events or on the happening of specified events or the right to veto specified transactions. Similarly, the repurchase or redemption rights or liquidation preferences we might assign to holders of preferred stock could affect the residual value of the Class A common stock.

There is currently no existing market for our Class A common stock, and a market for our securities may not develop, which would adversely affect the liquidity and price of our securities.

Prior to this offering, there has not been a public market for our Class A common stock. We cannot predict the extent to which investor interest in our Company will lead to the development of an active trading market on the stock exchange on which we list our Class A common stock or otherwise or how liquid that market might become. If an active trading market does not develop, anyone purchasing our Class A common stock may have difficulty selling it. The initial public offering price for the Class A common stock was determined by negotiations between us and the representatives of the underwriters and may not be indicative of prices that will prevail in the open market following this offering. Consequently, purchasers of our Class A common stock may be unable to sell it at prices equal to or greater than the price paid.

The following factors could affect our stock price:

- quarterly variations in our financial and operating results;
- the public reaction to our press releases, our other public announcements and our filings with the SEC;
- strategic actions by our competitors;

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- changes in revenues or earnings estimates, or changes in recommendations or withdrawal of research coverage, by equity research analysts;
- speculation in the press or investment community;
- the failure of research analysts to cover our Class A common stock;
- sales of our Class A common stock by us or other stockholders, or the perception that such sales may occur;
- equity capital markets transactions by other frac sand companies, including by way of initial public offerings;
- changes in accounting principles, policies, guidance, interpretations or standards;
- additions or departures of key management personnel;
- actions by our stockholders;
- general market conditions, including fluctuations in commodity prices;
- changes in, or investors' perception of, the oil and natural gas industry;
- litigation involving us, our industry, or both;
- domestic and international economic, legal and regulatory factors unrelated to our performance; and
- the realization of any risks described under this "Risk Factors" section.

The stock markets in general have experienced extreme volatility that has often been unrelated to the operating performance of particular companies. These broad market fluctuations may adversely affect the trading price of our Class A common stock. Securities class action litigation has often been instituted against companies following periods of volatility in the overall market and in the market price of a company's securities. Such litigation, if instituted against us, could result in very substantial costs, divert our management's attention and resources and harm our business, operating results and financial condition.

If Atlas LLC were to become a publicly traded partnership taxable as a corporation for U.S. federal income tax purposes, we and Atlas LLC might be subject to potentially significant tax inefficiencies.

We intend to operate such that Atlas LLC does not become a publicly traded partnership taxable as a corporation for U.S. federal income tax purposes. A "publicly traded partnership" is a partnership the interests of which are traded on an established securities market or are readily tradable on a secondary market or the substantial equivalent thereof. Under certain circumstances, redemptions of Atlas Units pursuant to the Redemption Right or Call Right, or other transfers of Atlas Units, could cause Atlas LLC to be treated as a publicly traded partnership. Applicable U.S. Treasury regulations provide for certain safe harbors from treatment as a publicly traded partnership, and we intend to operate such that redemptions or other transfers of Atlas Units qualify for one or more such safe harbors. For example, we intend to limit the number of holders of Atlas Units, and the Atlas LLC Agreement, which will be entered into in connection with the closing of this offering, will provide for limitations on the ability of holders of Atlas Units to transfer their Atlas Units and will provide us, as managing member of Atlas LLC, with the right to impose restrictions (in addition to those already in place) on the ability of holders of Atlas Units to redeem their Atlas Units pursuant to the Redemption Right to the extent we believe it is necessary to ensure that Atlas LLC will continue to be treated as a partnership for U.S. federal income tax purposes.

If Atlas LLC were to become a publicly traded partnership taxable as a corporation for U.S. federal income tax purposes, significant tax inefficiencies might result for us and for Atlas LLC, including as a result of the inability to file a consolidated U.S. federal income tax return with Atlas LLC.

Our organizational structure confers certain benefits upon the Legacy Owners that hold Atlas Units that will not benefit the holders of our Class A common stock to the same extent as it will benefit those Legacy Owners.

Our organizational structure confers certain benefits upon the Legacy Owners that hold Atlas Units that do not benefit the holders of our Class A common stock to the same extent as it will benefit those Legacy Owners. We are a holding company and have no material assets other than our ownership of Atlas Units. As a consequence, our ability to declare and pay dividends to the holders of our Class A common stock is subject to the ability of Atlas LLC to provide distributions to us. If Atlas LLC makes such distributions, the Legacy Owners that hold Atlas Units will be entitled to receive equivalent distributions from Atlas LLC on a pro rata basis. However, because we must pay taxes, amounts ultimately distributed as dividends to holders of our Class A common stock are expected to be less on a per share basis than the amounts distributed by Atlas LLC to the Legacy Owners on a per unit basis. This and other aspects of our organizational structure may adversely impact the future trading market for our Class A common stock.

The U.S. federal income tax treatment of distributions on our Class A common stock to a holder will depend upon our tax attributes and the holder's tax basis in our stock, which are not necessarily predictable and can change over time.

Distributions of cash or other property on our Class A common stock, if any, will constitute dividends for U.S. federal income tax purposes to the extent paid from our current or accumulated earnings and profits, as determined under U.S. federal income tax principles. To the extent those distributions exceed our current and accumulated earnings and profits, the distributions will be treated as a non-taxable return of capital to the extent of the holder's tax basis in our Class A common stock and thereafter as capital gain from the sale or exchange of such common stock. Also, if any holder sells our Class A common stock, the holder will recognize a gain or loss equal to the difference between the amount realized and the holder's tax basis in such Class A common stock.

To the extent that the amount of our distributions is treated as a non-taxable return of capital as described above, such distribution will reduce a holder's tax basis in the Class A common stock. Consequently, such excess distributions will result in a corresponding increase in the amount of gain, or a corresponding decrease in the amount of loss, recognized by the holder upon the sale of the Class A common stock or subsequent distributions with respect to such stock. Additionally, with regard to U.S. corporate holders of our Class A common stock, to the extent that a distribution on our Class A common stock exceeds both our current and accumulated earnings and profits and such holder's tax basis in such shares, such holders would be unable to utilize the corporate dividends-received deduction (to the extent it would otherwise be applicable to such holder) with respect to the gain resulting from such excess distribution.

Investors in our Class A common stock are encouraged to consult their tax advisors as to the tax consequences of receiving distributions on our Class A common stock that are not treated as dividends for U.S. federal income tax purposes.

Because we have elected to take advantage of the extended transition period pursuant to Section 107 of the JOBS Act, our financial statements may not be comparable to those of other public companies.

Section 107 of the JOBS Act provides that an emerging growth company can use the extended transition period provided in Section 7(a)(2)(B) of the Securities Act for complying with new or revised

accounting standards. This permits an emerging growth company to delay the adoption of certain accounting standards until those standards would otherwise apply to private companies. We are choosing to take advantage of this extended transition period and, as a result, we will comply with new or revised accounting standards on the relevant dates on which adoption of such standards is required for private companies. Accordingly, our financial statements may not be comparable to companies that comply with public company effective dates, and our stockholders and potential investors may have difficulty in analyzing our operating results by comparing us to such companies.

General Risk Factors

The requirements of being a public company, including compliance with the reporting requirements of the Exchange Act, and the requirements of Sarbanes-Oxley, may strain our resources, increase our costs and distract management, and we may be unable to comply with these requirements in a timely or cost-effective manner.

As a public company, we need to comply with laws, regulations and requirements, certain corporate governance provisions of Sarbanes-Oxley and related regulations of the SEC and the requirements of the NYSE. Complying with these statutes, regulations and requirements occupies a significant amount of time of our board of directors and management and significantly increases our costs and expenses. We will need to:

- institute a more comprehensive compliance function to test and conclude on the sufficiency of our internal controls around financial reporting;
- comply with rules promulgated by the NYSE;
- prepare and distribute periodic public reports;
- establish new internal policies, such as those relating to insider trading; and
- involve and retain to a greater degree outside professionals in the above activities.

Furthermore, while we must comply with Section 404 of Sarbanes-Oxley, we are not required to have our independent registered public accounting firm attest to the effectiveness of our internal controls until our first annual report subsequent to our ceasing to be an “emerging growth company” within the meaning of Section 2(a)(19) of the Securities Act. Accordingly, we may not be required to have our independent registered public accounting firm attest to the effectiveness of our internal controls until as late as our annual report for the fiscal year ending December 31, 2027. Once it is required to do so, our independent registered public accounting firm may issue a report that is adverse in the event it is not satisfied with the level at which our controls are documented, designed, operated or reviewed. Compliance with these requirements may strain our resources, increase our costs and distract management, and we may be unable to comply with these requirements in a timely or cost-effective manner.

We believe that the out-of-pocket costs, diversion of management’s attention from running the day-to-day operations and operational changes caused by the need to comply with the requirements of Section 404 of Sarbanes-Oxley could be significant. If the time and costs associated with such compliance exceed our current expectations, our results of operations could be adversely affected.

If we fail to comply with the requirements of Section 404 or if we or our independent registered public accounting firm identify and report such material weaknesses, the accuracy and timeliness of the filing of our annual and quarterly reports may be adversely affected and could cause investors to lose confidence in our reported financial information, which could have a negative effect on the stock price of our Class A common stock. In addition, a material weakness in the effectiveness of our internal

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control over financial reporting could result in an increased chance of fraud and the loss of customers, reduce our ability to obtain financing and require additional expenditures to comply with these requirements, each of which could have an adverse effect on our business, results of operations and financial condition.

In addition, being a public company subject to these rules and regulations may make it more difficult and more expensive for us to obtain director and officer liability insurance and we may be required to accept reduced policy limits and coverage or incur substantially higher costs to obtain the same or similar coverage. As a result, it may be more difficult for us to attract and retain qualified individuals to serve on our board of directors or as executive officers.

If securities or industry analysts do not publish research or reports or publish unfavorable research about our business, the price and trading volume of our Class A common stock could decline.

The trading market for our Class A common stock depends in part on the research and reports that securities or industry analysts publish about us or our business. If one or more of the analysts who covers us downgrades our securities, the price of our securities would likely decline. If one or more of these analysts ceases to cover us or fails to publish regular reports on us, interest in the purchase of our securities could decrease, which could cause the price of our Class A common stock and other securities and their trading volume to decline.

If we fail to develop or maintain an effective system of internal controls, we may not be able to accurately report our financial results or prevent fraud. As a result, current and potential stockholders could lose confidence in our financial reporting, which would harm our business and the trading price of our Class A common stock.

Effective internal controls are necessary for us to provide reliable financial reports, prevent fraud and operate successfully as a public company. If we cannot provide reliable financial reports or prevent fraud, our reputation and operating results would be harmed. We cannot be certain that our efforts to develop and maintain our internal controls will be successful, that we will be able to maintain adequate controls over our financial processes and reporting in the future or that we will be able to comply with our obligations under Section 404 of the Sarbanes-Oxley Act. Any failure to develop or maintain effective internal controls, or difficulties encountered in implementing or improving our internal controls, could harm our operating results or cause us to fail to meet our reporting obligations. Ineffective internal controls could also cause investors to lose confidence in our reported financial information, which would likely have a negative effect on the trading price of our Class A common stock.

Natural disasters and unusual weather conditions could disrupt business and result in operational delays and otherwise have an adverse effect on our business.

The occurrence of one or more natural disasters, such as tornadoes, hurricanes, tsunamis, fires, floods and earthquakes or unusual weather conditions in the regions in which our facilities are located could adversely result in delayed operations or repair costs. For example, in February 2021, Texas and New Mexico experienced record-setting cold temperatures from Winter Storm Uri. These cold temperatures required our customers to significantly curtail their production and completion activities which, in turn, negatively impacted our produced water handling and water solutions volumes. In addition to the Produced Water Handling volume reductions, we also experienced elevated prices for field gas generated power for the month of February 2021. Frac sand volumes were also negatively impacted in February and March 2021 as the cold weather delayed completion schedules and pushed forecasted producer activity into the latter half of the year. Events such as this could have an adverse effect on our business.

A terrorist attack or armed conflict could harm our business.

Global and domestic terrorist activities, anti-terrorist efforts and other armed conflicts involving the United States could adversely affect the U.S. and global economies and could prevent us from meeting financial and other obligations. We could experience loss of business, delays or defaults in payments from payors or disruptions of fuel supplies and markets if pipelines, production facilities, processing plants, refineries or transportation facilities are direct targets or indirect casualties of an act of terror or war. Such activities could reduce the overall demand for oil and natural gas, which, in turn, could also reduce the demand for our frac sand. Global and domestic terrorist activities and the threat of potential terrorist activities and any resulting physical damage and economic downturn could adversely affect our results of operations, impair our ability to raise capital or otherwise adversely impact our ability to realize certain business strategies.

CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS

The information in this prospectus includes “forward-looking statements.” All statements, other than statements of historical fact included in this prospectus, regarding our strategy, future operations, financial position, estimated revenues and losses, projected costs, prospects, plans and objectives of management are forward-looking statements. When used in this prospectus, the words “could,” “would,” “believe,” “anticipate,” “intend,” “estimate,” “expect,” “project” and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain such identifying words. These forward-looking statements are based on our current expectations and assumptions about future events and are based on currently available information as to the outcome and timing of future events. When considering forward-looking statements, you should keep in mind the risk factors and other cautionary statements described under the section titled “Risk Factors” included in this prospectus. By their nature, forward-looking statements involve known and unknown risks and uncertainties because they relate to events and depend on circumstances that may or may not occur in the future. Although we believe that the forward-looking statements contained in this prospectus are based on reasonable assumptions, you should be aware that many factors could affect our actual financial results or results of operations and could cause actual results to differ materially from those in such forward-looking statements, including but not limited to:

- higher than expected costs to operate our Kermit and Monahans facilities and develop the Dune Express system;
- the amount of frac sand we are able to produce, which could be adversely affected by, among other things, operating difficulties and unusual or unfavorable geologic conditions;
- the volume of frac sand we are able to sell and our ability to enter into supply contracts for our frac sand on acceptable terms;
- the prices we are able to charge, and the margins we are able to realize, from our frac sand sales;
- the demand for and price of frac sand, particularly in the Permian Basin;
- fluctuations in the demand for certain grades of frac sand;
- the domestic and foreign supply of and demand for oil and natural gas;
- changes in the price and availability of natural gas, diesel fuel or electricity that we use as fuel sources for our proppant production facilities and related equipment;
- the availability of capital and our liquidity;
- the level of competition from other companies;
- pending legal or environmental matters;
- changes in laws and regulations (or the interpretation thereof) or increased public scrutiny related to the proppant production and oil and natural gas industries, silica dust exposure or the environment;
- facility shutdowns in response to environmental regulatory actions;
- technical difficulties or failures;
- liability or operational disruptions due to pit-wall or pond failure, environmental hazards, fires, explosions, chemical mishandling or other industrial accidents;
- health epidemics, such as the ongoing COVID-19 pandemic, natural disasters or inclement or hazardous weather conditions, including but not limited to cold weather, flooding, tornadoes and the physical impacts of climate change;
- unanticipated ground, grade or water conditions;

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- inability to obtain government approvals or acquire or maintain necessary permits or mining, access or water rights;
- changes in the price and availability of transportation services;
- inability of our customers to take delivery;
- difficulty collecting receivables;
- the level of completion activity in the oil and natural gas industry;
- inability to obtain necessary production equipment or replacement parts;
- the amount of water available for processing;
- any future expansion projects or capital expenditures;
- our ability to finance equipment, working capital and capital expenditures;
- inability to successfully grow organically, including through future land acquisitions;
- inaccuracies in estimates of volumes and qualities of our frac sand reserves;
- failure to meet our minimum delivery requirements under our supply agreements;
- material nonpayment or nonperformance by any of our key customers;
- development of either effective alternative proppants or new processes that replace hydraulic fracturing;
- our ability to borrow funds and access capital markets;
- our ability to comply with covenants contained in our debt instruments;
- the severity, operational challenges and duration of the ongoing COVID-19 pandemic and efforts to mitigate the spread of the virus, including logistical challenges, protecting the health and well being of our employees, remote work arrangements, performance of contracts and supply chain disruptions, which have caused economic slowdowns and interruptions to our and our customers' operations;
- the potential deterioration of our customers' financial condition, including defaults resulting from actual or potential insolvencies;
- changes in global political or economic conditions, generally, and in the markets we serve;
- physical, electronic and cybersecurity breaches;
- the effects of litigation;
- plans, objectives, expectations and intentions contained in this prospectus that are not historical; and
- other factors discussed elsewhere in this prospectus including in the section titled "Risk Factors."

We caution you that these forward-looking statements are subject to all of the risks and uncertainties, most of which are difficult to predict and many of which are beyond our control. These risks include, but are not limited to, the risks described under "Risk Factors" in this prospectus. Should one or more of the risks or uncertainties described in this prospectus occur, or should underlying assumptions prove incorrect, our actual results and plans could differ materially from those expressed in any forward-looking statements.

All forward-looking statements, expressed or implied, included in this prospectus are expressly qualified in their entirety by this cautionary statement. This cautionary statement should also be

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considered in connection with any subsequent written or oral forward-looking statements that we or persons acting on our behalf may issue. Except as otherwise required by applicable law, we disclaim any duty to update any forward-looking statements, all of which are expressly qualified by the statements in this section, to reflect events or circumstances after the date of this prospectus.

USE OF PROCEEDS

We estimate that our net proceeds from this offering, based on an assumed initial public offering price of \$ _____ per share of Class A common stock (the midpoint of the price range set forth on the cover of this prospectus), after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us, will be approximately \$ _____ million, or approximately \$ _____ million if the underwriters' option to purchase additional shares of Class A common stock is exercised in full.

Each \$1.00 increase or decrease in the assumed initial public offering price of \$ _____ per share of Class A common stock (the midpoint of the price range set forth on the cover of this prospectus) would increase or decrease the net proceeds to us from this offering by approximately \$ _____ million (or approximately \$ _____ million if the underwriters' option to purchase additional shares of Class A common stock is exercised in full), assuming that the number of shares of Class A common stock offered by us, as set forth on the cover page of this prospectus, remains the same and after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us. Similarly, each increase or decrease of one million in the number of shares of Class A common stock offered by us would increase or decrease the net proceeds to us from this offering by approximately \$ _____ million (or approximately \$ _____ million if the underwriters' option to purchase additional shares of Class A common stock is exercised in full), assuming no change in the assumed initial public offering price of \$ _____ per share and after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us.

The principal purposes of this offering are to help fund our current growth initiatives, create a public market for our Class A common stock, and facilitate our future access to the capital markets. Atlas LLC will use:

- approximately \$ _____ million of the net proceeds of this offering to fund, in part, the construction of the Dune Express;
- approximately \$ _____ million of the net proceeds of this offering to fund, in part, the expansion of our Kermit facility; and
- approximately \$ _____ million of the net proceeds of this offering to fund general corporate purposes.

We do not currently intend to use any of the net proceeds from this offering to make payments in connection with the Redemption Right or Call Right.

The expected use of net proceeds from this offering represents our intentions based upon our present plans and business conditions. We cannot predict with certainty all of the particular uses for the proceeds of this offering or the amounts that we will actually spend on the uses set forth above. Accordingly, our management will have significant flexibility in applying the net proceeds of this offering. The timing and amount of our actual expenditures will be based on many factors, including cash flows from operations and the anticipated growth of our business.

DIVIDEND POLICY

We expect to pay dividends on our Class A common stock in amounts determined from time to time by our board of directors. We will continuously evaluate market conditions to efficiently increase stockholder value. However, the declaration and payment of any dividend by us will be at the sole discretion of our board of directors, which may change our dividend policy at any time. Our board of directors will take into account:

- general economic and business conditions;
- our financial condition and operating results;
- our Adjusted Free Cash Flow, any other measures of cash flow generation deemed relevant and current and anticipated cash needs;
- our capital requirements;
- contractual, legal, tax and regulatory restrictions and implications on the payment of dividends by us to our stockholders or dividends or distributions by our subsidiaries (including Atlas LLC) to us; and
- such other factors as our board of directors may deem relevant.

We will be a holding company upon the completion of this offering, and will have no material assets other than our ownership of Atlas Units. As a consequence, our ability to declare and pay dividends to the holders of our Class A common stock will be subject to the ability Atlas LLC to provide distributions to us. The ability of our subsidiaries to make distributions to Atlas LLC depends upon the amount of cash they generate from their operations and the restrictions contained in the ABL Credit Facility and such subsidiaries' governing documents. For additional information, please see "Risk Factors—Risks Related to this Offering and Our Class A Common Stock and Organizational Structure—*We are a holding company. Our sole material asset after completion of this offering and our corporate reorganization will be its equity interest in Atlas LLC, and we will accordingly be dependent upon cash distributions from Atlas LLC to cover our taxes and corporate and overhead expenses, among other expenses.*"

If Atlas LLC makes such distributions, the Legacy Owners holding Atlas Units will be entitled to receive equivalent distributions from Atlas LLC on a pro rata basis. However, because Atlas Inc. must pay taxes, amounts ultimately distributed as dividends to holders of our Class A common stock are expected to be less on a per share basis than the amounts distributed by Atlas LLC to the Legacy Owners on a per unit basis.

Assuming Atlas LLC makes distributions to Atlas Inc. and the Legacy Owners in any given year, the determination to pay dividends, if any, in respect of our Class A common stock out of the portion, if any, of such distributions remaining after our payment of taxes and our expenses (any such portion, an "excess distribution") will be made by our board of directors. Because our board of directors may determine to pay or not pay dividends in respect of shares of our Class A common stock, our holders of Class A common stock may not necessarily receive dividend distributions relating to excess distributions, even if Atlas LLC makes such distributions to us.

CAPITALIZATION

The following table sets forth our cash and cash equivalents and capitalization as of March 31, 2022:

- on an actual basis; and
- as adjusted to give pro forma effect to (i) the transactions described under “Corporate Reorganization” and (ii) the sale of shares of our Class A common stock in this offering at the assumed initial offering price of \$ _____ per share (the midpoint of the price range set forth on the cover of this prospectus) and the application of the net proceeds therefrom as described under the section titled “Use of Proceeds.”

The table below should be read in conjunction with, and is qualified in its entirety by reference to the section titled “Management’s Discussion and Analysis of Financial Condition and Results of Operations” and the historical condensed consolidated financial information of our Predecessor and our pro forma financial information for the periods and as of the dates indicated.

	As of March 31, 2022	
	Predecessor(1)	As adjusted(2)
	(In thousands, except number of shares)	
Cash and cash equivalents	\$ 53,836	\$ _____
Total debt:		
ABL Credit Facility(3)	\$ —	\$ _____
Term Loan Credit Facility	\$ 173,720	\$ _____
Total debt	\$ 173,720	\$ _____
Members’ / stockholders’ equity:		
Members’ / stockholders’ equity	\$ 359,748	\$ _____
Class A common stock, \$0.01 par value; no shares authorized, issued or outstanding (actual); shares authorized, _____ shares issued and outstanding (as adjusted)		
Class B common stock, \$0.01 par value, no shares authorized, issued or outstanding (actual); shares authorized, _____ shares issued and outstanding (as adjusted)		
Additional paid-in capital		
Non-controlling interests		
Total members’ / stockholders’ equity	\$ _____	\$ _____
Total capitalization	\$ _____	\$ _____

- (1) Atlas LLC was formed in April 2017. The data in this table has been derived from the historical consolidated financial statements included in this prospectus which pertain to the assets, liabilities, revenues and expenses of our accounting predecessor.
- (2) A \$1.00 increase (decrease) in the assumed initial public offering price of \$ _____ per share, which is the midpoint of the price range set forth on the cover page of this prospectus, would increase (decrease) the as adjusted additional paid-in capital, total members’ / stockholders’ equity and total capitalization by approximately \$ _____ million, \$ _____ million and \$ _____ million, respectively, assuming that the number of shares offered by us, as set forth on the cover page of this prospectus, remains the same, after deducting the estimated underwriting discounts and commissions payable by us. We may also increase (decrease) the number of shares we are offering. An increase (decrease) of one million shares offered by us at the assumed initial public offering price of \$ _____ per share, which is the midpoint of the price

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range set forth on the cover page of this prospectus, would increase (decrease) the as adjusted additional paid-in capital, total members'/stockholders' equity and total capitalization by approximately \$ million, \$ million and \$ million, respectively, after deducting the estimated underwriting discounts and commissions and estimated offering expenses payable by us.

(3) As of , 2022, the ABL Credit Facility includes an undrawn letter of credit in the amount of \$.

DILUTION

Purchasers of the Class A common stock in this offering will experience immediate and substantial dilution in the net tangible book value per share of the Class A common stock for accounting purposes. Our as adjusted net tangible book value as of March 31, 2022, after giving pro forma effect to the transactions described under the section titled "Corporate Reorganization," was approximately \$ million, or \$ per share of Class A common stock. Pro forma net tangible book value per share is determined by dividing our pro forma tangible net worth (tangible assets less total liabilities) by the total number of outstanding shares of Class A common stock (assuming that 100% of Atlas Units have been redeemed for Class A common stock) that will be outstanding immediately prior to the closing of this offering including giving effect to our corporate reorganization. After giving effect to the sale of the shares in this offering and further assuming the receipt of the estimated net proceeds from this offering (after deducting estimated underwriting discounts and commissions and estimated offering expenses), our pro forma as adjusted net tangible book value as of March 31, 2022 would have been approximately \$ million, or \$ per share. This represents an immediate decrease in the net tangible book value of \$ per share to the Legacy Owners and an immediate dilution (i.e., the difference between the offering price and the as adjusted net tangible book value after this offering) to new investors of \$ per share. The following table illustrates the per share dilution to new investors (assuming that 100% of Atlas Units have been redeemed for Class A common stock):

Initial public offering price per share of Class A common stock	\$
As adjusted net tangible book value per share of Class A common stock as of March 31, 2022 (after giving pro forma effect to our corporate reorganization as described above)	\$
Decrease per share of Class A common stock attributable to this offering and related transactions as described above	_____
Pro forma as adjusted net tangible book value per share of Class A common stock (after giving further effect to this offering and related transactions as described above)	_____
Dilution in pro forma as adjusted net tangible book value per share of Class A common stock to new investors	\$ _____

The dilution information discussed above is illustrative only and will change based on the actual public offering price and other terms of this offering to be determined at pricing. A \$1.00 increase (decrease) in the assumed initial public offering price of \$ per share, which is the midpoint of the price range set forth on the cover page of this prospectus, would increase (decrease) the pro forma as adjusted net tangible book value per share by approximately \$ million, or by approximately \$ per share, assuming the number of shares offered by us, as set forth on the cover page of this prospectus, remains the same, after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us. Similarly, an increase (decrease) of one million in the number of shares offered by us would increase (decrease) the pro forma as adjusted net tangible book value per share by approximately \$ million, or approximately \$ per share, assuming the assumed public offering price remains the same, after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us.

The following table summarizes, on an as adjusted basis as of March 31, 2022, the total number of shares of Class A common stock owned by the Legacy Owners (assuming that 100% of our Class B common stock and Atlas Units have been redeemed for Class A common stock) and to be owned by new investors, the total consideration paid, and the average price per share paid by the Legacy Owners and to be paid by new investors in this offering at our initial offering price of \$ per

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share, calculated before deduction of estimated underwriting discounts and commissions and estimated offering expenses payable by us.

	<u>Shares Acquired</u>		<u>Total Consideration</u>		<u>Average Price</u>
	<u>Number</u>	<u>Percent</u>	<u>Amount</u>	<u>Percent</u>	<u>Per Share</u>
Legacy Owners		%	\$	%	\$
New investors in this offering		%		%	
Total		100.0%	\$	100.0%	\$

The above table and discussion are based on the number of shares of our Class A common stock and Class B common stock to be outstanding as of the closing of this offering. The table does not reflect shares of Class A common stock reserved for issuance under our LTIP, which we intend to adopt in connection with the completion of this offering.

If the underwriters' option to purchase additional shares is exercised in full, the number of shares held by new investors will be increased to , or approximately % of the total number of shares of our Class A common stock.

MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

The following discussion and analysis should be read in conjunction with the section titled "Summary—Summary Historical and Pro Forma Financial and Operating Data" and the financial statements and related notes appearing elsewhere in this prospectus. This discussion contains "forward-looking statements" reflecting our current expectations, estimates and assumptions concerning events and financial trends that may affect our future operating results or financial position. Actual results and the timing of events may differ materially from those contained in these forward-looking statements due to a number of factors. Factors that could cause or contribute to such differences include, but are not limited to, market prices for oil and natural gas, capital expenditures, economic and competitive conditions, regulatory changes and other uncertainties, as well as those factors discussed below and elsewhere in this prospectus, particularly in the sections titled "Risk Factors" and "Cautionary Note Regarding Forward-Looking Statements," all of which are difficult to predict. In light of these risks, uncertainties and assumptions, the forward-looking events discussed may not occur. We assume no obligation to update any of these forward-looking statements except as otherwise required by applicable law.

Overview

We are an innovation-focused leading provider of proppant and logistics services to customers engaged in the oil and natural gas industry within the Permian Basin of West Texas and New Mexico, the most active basin in North America by rig count. Our core mission and key focus is to create a best-in-class value proposition for our stockholders by generating strong free cash flow, regularly returning capital to investors, reinvesting selectively to drive growth and maintaining a strong balance sheet to ensure our financial health throughout our industry's cycles. Our ability to generate free cash flow is paramount to our value proposition, as it correlates to our ability to regularly return capital to our stockholders. We have experienced significant growth in net income, Adjusted EBITDA, net cash provided by operating activities and Adjusted Free Cash Flow since January 2021, as oil and natural gas prices have improved, and the proppant market has tightened. We aim to accomplish our mission and capitalize on our strategic advantages through the use of differentiated and innovative techniques and technologies to develop our high-quality and uniquely positioned resource base.

We have assembled the sand mining rights associated with approximately 38,000 acres in the Winkler Sand Trend located in Winkler and Ward Counties, Texas, which are logistically well-positioned to serve the entire Permian Basin. We control 14,575 acres of large open-dune reserves and resources, which represent more than 70% of the large open-dune acreage in the Winkler Sand Trend that is available for sand mining, making us the primary producer of proppant from the large open-dune deposits inside the Winkler Sand Trend. Large open-dune reserves accounted for 100% of our produced volumes for the three months ended March 31, 2022 and year ended December 31, 2021. As the reserves of these large open dunes have not been subjected to the degree of soil development, organics and impurities as buried sand deposits, they tend to produce better yields relative to buried sand deposits. Large open-dune reserves have also been proven to produce a higher-quality product (as measured by tests of crush strength, turbidity, etc.) more efficiently and with a smaller environmental footprint as compared to buried sand reserves throughout the Permian Basin.

Based on our current total annual production capacity of approximately 10.0 million tons, our properties have an aggregate expected reserve life of approximately 37 years based on the currently defined mineral reserves, with a potential extension of our reserve life to _____ years based on our total mineral resources. The difference between our proved or probable reserves and measured, indicated and inferred resources is primarily attributable to limitations on proved or probable reserve booking based on the density of core sample spacing development timing and other factors

considered by our independent mining engineers and geologists. We have taken core samples across the entirety of our acreage position and the geologic homogeneity of those samples lead us to believe that substantial economic reserves of the same quality of our proved or probable reserves exist throughout; these core samples were taken with spacing ranging from 1,000 to 8,000 feet while the proved and probable reserve spacing standards utilized by our independent mining engineers and geologists, John T. Boyd Company, is less than or equal to 1,500 foot spacing for proven reserves and measured resources, 1,500 to 2,500 foot spacing for probable reserves and indicated resources and 2,500 to 5,000 foot spacing for inferred resources. As a result of the consistency of the samples across our acreage, we anticipate a reclassification of resources to proven or probable reserves over time as we expand our mining operations and execute with tighter infill sampling. Please see the risk captioned under “Risk Factors—Risks Related to Our Business and Operations—*Inaccuracies in our estimates of sand reserves and resource deposits, or deficiencies in our title to those deposits, could result in our inability to mine the deposits or require us to pay higher than expected costs.*”

Market Conditions, Operational Trends and Outlook

Increasing economic activity, from historic lows brought about by the COVID-19 pandemic, has supported a higher oil and natural gas commodity price environment. As the global demand for hydrocarbons has returned to pre-pandemic levels, historically low levels of capital investment into the oil and natural gas space, during the preceding two years has led to significant supply concerns as the supply of oil and natural gas has not been able to keep pace with growing global demand. Russia’s war with Ukraine has further exacerbated the tightness in the markets for oil and natural gas. The price of West Texas Intermediate crude oil increased to a quarterly high of \$125.70 per barrel, during the first quarter of 2022, before ending the period at \$101.28 per barrel — the highest commodity price levels experienced since 2014.

The rising commodity price environment coupled with an increase in the demand for hydrocarbons has painted a favorable macro backdrop for the oil and natural gas industry. With demand forecasted to outpace supply, oil producers have continued to ramp up drilling activity in an effort to meet demand expectations. The Permian Basin, the most prolific basin in North America, has seen the most robust recovery in oilfield activity to-date.

At the peak of the COVID-19 health crisis, oilfield activity became relatively subdued as evidenced by historically low rig count activity. The Permian Basin saw its lowest rig count in over a decade while oil spot prices briefly entered negative territory. As a result, operators began to shut in wells and significantly reduce capital spending, which in turn led to a precipitous decline in the demand for oilfield services.

These historically difficult industry conditions and constrained access to capital led several proppant producers to shut down their facilities in an effort to conserve cash. In contrast to these companies, we never closed our facilities. We operated throughout the height of the pandemic, increased our market share, generated positive Adjusted EBITDA and took advantage of the slower activity levels to implement several facility upgrades, and other capital projects, to increase our production capacity or reduce costs, including the implementation of e-mining. As a result, we have emerged from the ongoing COVID-19 pandemic in a position of strength and as a market leader for proppant in the Permian Basin.

The price of West Texas Intermediate crude oil experienced a significant rally during the 2021 fiscal year through March 31, 2022, ending the period at \$101.28 per barrel, representing an absolute increase of \$114.41 from pandemic lows. As of March 31, 2022, the Permian Basin had 319 active horizontal drilling rigs, up from 221 at the end of 2021, representing an increase of approximately 44%.

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As a result of increased drilling activity, completions activity experienced robust growth as well. As of March 31, 2022, Permian Basin has added an estimated 56 horizontal frac fleets since pandemic lows, ending the period with approximately 92 total active frac fleets while total horizontal completions continue to increase. The higher pricing environment, and favorable macro backdrop, has led to robust demand for our products and services.

We believe these industry trends will continue to directly benefit proppant producing companies like us that have the industry expertise and technological ability to meet the growing demand for our products.

How We Generate Revenue

We generate revenue by mining, processing and distributing proppant that our customers use in connection with their operations. We sell proppant to our customers under supply agreements or as spot sales at prevailing market rates, which is dependent upon the cost of producing proppant, the proppant volumes sold and the desired margin and prevailing market conditions.

In some instances, revenues also include charges for sand logistics services provided to our customers. Our logistics service revenue fluctuates based on several factors, including the volume of proppant transported and the distance between our facilities and our customers. Revenue is generally recognized as products are delivered in accordance with the contract.

Some of our contracts contain shortfall provisions that calculate agreed upon fees that are billed when the customer does not satisfy the minimum purchases over a period of time defined in each contract.

As of March 31, 2022, our Kermit and Monahans production facilities have 10.0 million tons of annual production capacity.

Costs of Conducting our Business

We incur operating costs primarily from direct and indirect labor, freight charges, utility costs, fuel and maintenance costs and royalties. We incur labor costs associated with employees at our Kermit and Monahans facilities, which represent the most significant cost of converting frac sand to finished product. We may incur variable freight charges from trucking companies related to our delivery of sand to customer wellsites. Our Kermit and Monahans facilities undergo maintenance to minimize unscheduled downtime and ensure the ongoing quality of our proppant and ability to meet customer demands. We may incur variable utility costs in connection with the operation of our processing facilities, primarily natural gas and electricity, which are both susceptible to market fluctuations. We lease equipment in many areas of our operations including our proppant production hauling equipment. We incur variable royalty expense and / or delay rentals related to our agreement with the owners of our reserves. In addition, other costs including overhead allocation, depreciation and depletion are capitalized as a component of inventory and are reflected in cost of goods sold when inventory is sold.

How We Evaluate Our Operations

Our management uses a variety of financial and operating metrics to evaluate and analyze the performance of our business, including Adjusted EBITDA, Adjusted EBITDA Margin, Adjusted Free Cash Flow, Adjusted Free Cash Flow Margin, Adjusted Free Cash Flow Conversion and Contribution Margin.

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Adjusted EBITDA, Adjusted EBITDA Margin, Adjusted Free Cash Flow, Adjusted Free Cash Margin, Adjusted Free Cash Flow Conversion, and Contribution Margin are non-GAAP supplemental financial measures used by our management and by external users of our financial statements such as investors, research analysts and others, in the case of Adjusted EBITDA, to assess our operating performance on a consistent basis across periods by removing the effects of development activities and, in the case of Adjusted Free Cash Flow, to assess the financial performance of our assets and their ability to sustain dividends over the long term without regard to financing methods, capital structure or historical cost basis.

We define Adjusted EBITDA as net income (loss) before depreciation, depletion and accretion, interest expense, income tax expense, expense related to workforce reduction, impairment of long-lived assets, unit based compensation, loss on disposal of property, plant and equipment, gain (loss) on extinguishment of debt and unrealized commodity derivative gain (loss). Management believes Adjusted EBITDA is useful because it allows them to more effectively evaluate our operating performance and compare the results of our operations from period to period and against our peers without regard to our financing methods or capital structure. We exclude the items listed above from net income in arriving at Adjusted EBITDA because these amounts can vary substantially from company to company within our industry depending upon accounting methods and book values of assets, capital structures and the method by which the assets were acquired.

We define Adjusted EBITDA Margin as Adjusted EBITDA divided by total sales.

We define Adjusted Free Cash Flow as Adjusted EBITDA less maintenance capital expenditures. We believe that Adjusted Free Cash Flow is useful to investors as it provides a measure to of the ability of our business to generate cash, which can be used to pay dividends, capital expenditures or debt repayment.

We define Adjusted Free Cash Flow Margin as Adjusted Free Cash Flow divided by total sales.

We define Adjusted Free Cash Flow Conversion as Adjusted Free Cash Flow divided by Adjusted EBITDA.

We define maintenance capital expenditures as capital expenditures excluding growth capital expenditures.

We define Contribution Margin as gross profit plus depreciation, depletion and accretion expense.

Adjusted EBITDA, Adjusted EBITDA Margin, Adjusted Free Cash Flow, Adjusted Free Cash Flow Margin, Adjusted Free Cash Flow Conversion and Contribution Margin do not represent and should not be considered alternatives to, or more meaningful than, net income, income from operations, cash flows provided by operating activities or any other measure of financial performance presented in accordance with GAAP as measures of our financial performance. Adjusted EBITDA and Adjusted Free Cash Flow have important limitations as analytical tools because they exclude some but not all items that affect net income, the most directly comparable GAAP financial measure. Our computation of Adjusted EBITDA, Adjusted EBITDA Margin, Adjusted Free Cash Flow, Adjusted Free Cash Flow Margin, Adjusted Free Cash Flow Conversion and Contribution Margin may differ from computations of similarly titled measures of other companies.

Adjusted EBITDA, Adjusted EBITDA Margin, Adjusted Free Cash Flow, Adjusted Free Cash Flow Margin, and Adjusted Free Cash Flow Conversion are non-GAAP supplemental financial measures used by our management and external users of our financial statements such as investors, research analysts and others, in the case of Adjusted EBITDA, to assess the financial performance of our assets

and their ability to sustain dividends over the long term without regard to financial methods, capital structure or historical cost basis, and, in the case of Adjusted Free Cash Flow, to assess our operating performance on a consistent basis across periods by removing the effects of development activities.

Factors Affecting the Comparability of Our Results of Operation

COVID-19

In March 2020, the World Health Organization categorized the outbreak of COVID-19 as a pandemic. The COVID-19 pandemic has led to significant economic disruption globally, including in the areas of the United States in which we operate. Governmental authorities took actions to limit the spread of COVID-19 through travel restrictions and stay-at-home orders, which caused many businesses to adjust, reduce or suspend activities. Concerns about global economic growth, as well as uncertainty regarding the timing, pace and extent of an economic recovery in the United States and abroad, have had a significant adverse impact on commodity prices and financial markets. COVID-19 cases in the United States have decreased from their highest levels and vaccines are being distributed, but additional uncertainty remains regarding the timing, pace and extent of an economic recovery in the United States.

Beginning in March 2020, we took action to protect the health and safety of our workers, while continuing to operate, and to maintain the safety and integrity of, our assets. Where possible, our employees have worked remotely to support our business. Where continuous remote work was not possible, we implemented strategies to reduce the likelihood of spreading the disease. In compliance with Center for Disease Control guidance, these strategies include requiring sick employees to stay home, implementing policies and practices for social distancing and wearing cloth face coverings, educating employees about steps they can take to protect themselves at work and at home, performing enhanced cleaning and disinfecting, limiting non-essential travel, and minimizing meetings and gatherings.

COVID-19 contributed to a significant downturn in oil and natural gas commodity prices, and we experienced a corresponding drop in activity levels from our customers in the Permian Basin in 2020. We took action to reduce operating and general and administrative expenses while maintaining safe and reliable performance of our systems. We anticipate that these cost improvements are sustainable and will continue to benefit us in the future. We also expect a significant recovery in operator activity levels as the impact of COVID-19 diminishes and commodity prices continue to recover. However, we are unable to predict the future impact of COVID-19, and it is possible that such impact could be negative. For more information on the risks relating to COVID-19, please read the risks under the section titled "Risk Factors", including "Risk Factors—Risks Related to Our Business and Operations— *Our business and results of operations have been adversely affected by, and may again in the future be adversely affected by, the ongoing COVID-19 pandemic.*"

Long-Term Incentive Plan

In order to incentivize management members following the completion of this offering, we anticipate that our board of directors will adopt a LTIP for employees and directors prior to the completion of this offering. Our principal executive officer and our next two most highly compensated executive officers (our "Named Executive Officers") will be eligible to participate in this plan, which will become effective upon the consummation of this offering. We anticipate that the LTIP will provide for the grant of options, stock appreciation rights, restricted stock, restricted stock units, stock awards, dividend equivalents, other stock-based awards, cash awards, substitute awards and performance awards intended to align the interests of service providers (including the Named Executive Officers) with those of our stockholders. As such, our historical financial data may not present an accurate indication of what our actual results would have been if we had implemented the LTIP program prior to the periods presented within.

Implementation of Electric Dredge Mining

In July 2020 and August 2020, we switched from traditional pit mining and implemented dredge mining at the Kermit and Monahans facilities, respectively. Accordingly, historical consolidated financial statements for the year ended December 31, 2020 included in this prospectus do not include a full year of associated operational cost reductions related to the implementation of dredge mining. The historical consolidated financial statements for the year ended December 31, 2021 included in this prospectus include the associated operational cost reductions related to the implementation of dredge mining. Dredge mining has resulted in total operational cost savings in excess of \$10.0 million per annum when compared to traditional pit mining. As such, our historical financial data may not yield an accurate indication of what our actual results would have been if we had implemented dredge mining prior to the periods presented within.

Wyatt's Lodge

On December 10, 2021, we entered into a definitive agreement under which we acquired certain assets from Brigham Development, LLC and BDWTX, LLC in an all-cash transaction valued at \$7.0 million. These assets include Wyatt's Lodge, a lodging facility operated by us for our Permian Basin-based personnel conveniently located in Kermit, Texas between our Kermit and Monahans facilities. By acquiring Wyatt's Lodge, we eliminated approximately \$1.5 million of annual rental expense.

Income Taxes

Atlas Inc. is a corporation and will be subject to U.S. federal, state and local income taxes. Although the Predecessor is subject to franchise tax in the State of Texas (at less than 1% of modified pre-tax earnings), it is and historically has been treated as a pass-through entity for U.S. federal and other state and local income tax purposes, and as such is and was generally not subject to U.S. federal income taxes or other state or local income taxes. Rather, the tax liability with respect to the taxable income of the Predecessor is and was passed through to its owners. Accordingly, the financial data attributable to Predecessor contains no provision for U.S. federal income taxes or income taxes in any state or locality (other than franchise tax in the State of Texas). We estimate that we will be subject to U.S. federal, state and local taxes at a blended statutory rate of approximately 21.75% (plus any applicable state income tax) of pre-tax earnings, based upon the federal statutory rate of 21%, plus Texas franchise tax rate of 0.75%.

Atlas Inc. accounts for income taxes under the asset and liability method. Under this method, deferred tax assets and liabilities are recognized for the estimated future tax consequences attributable to differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax basis. Deferred tax assets and liabilities are measured using enacted tax rates in effect for the year in which those temporary differences are expected to be recovered or settled pursuant to the provisions of Accounting Standards Codification ("ASC") 740, *Income Taxes*. The effect on deferred tax assets and liabilities of a change in tax rate is recognized in earnings in the period that includes the enactment date. Valuation allowances are established when necessary to reduce deferred tax assets to the amounts more likely than not to be realized.

We expect to record a full valuation allowance on our net deferred tax assets based on our assessment that it is more likely than not that the deferred tax asset will not be realized. A change in these assumptions could cause a decrease to the valuation allowance, which could materially impact our results of operations.

Results of Operations

	Predecessor			
	Three Months Ended March 31,		Year Ended December 31,	
	2022	2021	2021	2020
	(In thousands)			
	(unaudited)	(unaudited)		
Product sales	\$ 54,812	\$ 26,056	\$ 142,519	80,527
Service sales	5,042	5,776	29,885	31,245
Total sales	<u>59,854</u>	<u>31,832</u>	<u>172,404</u>	<u>111,772</u>
Cost of sales (excluding depreciation, depletion and accretion expense)	24,445	18,920	84,656	73,118
Depreciation, depletion and accretion expense	6,167	5,448	23,681	20,887
Gross profit	<u>29,242</u>	<u>7,464</u>	<u>64,067</u>	<u>17,767</u>
Operating expenses:				
Selling, general and administrative expense	5,275	4,251	17,071	17,743
Impairment of long-lived assets	—	—	—	1,250
Operating income (loss)	23,967	3,213	46,996	(1,226)
Interest expense, net	(3,990)	(8,500)	(42,198)	(32,819)
Other income (loss)	1,094	55	291	(25)
Income tax expense	225	103	831	372
Net income (loss)	<u>\$ 20,846</u>	<u>\$ (5,335)</u>	<u>\$ 4,258</u>	<u>\$ (34,442)</u>

Three Months Ended March 31, 2022 Compared To Three Months Ended March 31, 2021

Product Sales. Product sales increased by \$28.7 million to \$54.8 million for the three months ended March 31, 2022, as compared to \$26.1 million for the three months ended March 31, 2021. An increase in proppant prices between the periods contributed to a \$22.5 million positive impact, while an increase in sales volume contributed a \$6.2 million positive impact.

Service Sales. Services sales, which includes freight for last-mile logistics services, decreased by \$0.8 million to \$5.0 million for the three months ended March 31, 2022, as compared to \$5.8 million for the three months ended March 31, 2021. The decrease in logistics revenue was due to lower sales volumes shipped to last-mile logistics customers.

Cost of sales (excluding depreciation, depletion and accretion expense). Cost of sales (excluding depreciation, depletion and accretion expense) increased by \$5.5 million to \$24.4 million for the three months ended March 31, 2022, as compared to \$18.9 million for the three months ended March 31, 2021. Cost of sales (excluding depreciation, depletion and accretion) related to product sales increased by \$6.1 million due to increased sales volumes, which increased costs for utilities, maintenance and royalties. These increases were partially offset by decreased rental equipment costs.

Cost of sales (excluding depreciation, depletion and accretion expense) related to services decreased by \$0.6 million due to lower sales volumes shipped to last-mile logistics customers during the period.

Depreciation, depletion and accretion expense. Depreciation, depletion and accretion expense increased by \$0.8 million to \$6.2 million for the three months ended March 31, 2022, as compared to

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\$5.4 million for the three months ended March 31, 2021. The increase in depreciation, depletion and accretion expense is due to increased units of production depletion due to higher sand production when compared to the prior period.

Selling, general and administrative expense. Selling, general and administrative expense increased by \$1.0 million to \$5.3 million for the three months ended March 31, 2022, as compared to \$4.3 million for the three months ended March 31, 2021. The increase is due to an increase of \$1.0 million of employee costs, including \$0.2 million of unit-based compensation expense during the three months ended March 31, 2022, compared to the three months ended March 31, 2021.

Our selling, general and administrative expenses include the non-cash expense for unit-based compensation for equity awards granted to our employees. For the three months ended March 31, 2022, unit-based compensation expense was \$0.2 million, as compared to de minimis unit-based compensation expense for the three months ended March 31, 2021.

Interest expense, net. Interest expense, net decreased by \$4.5 million to \$4.0 million for the three months ended March 31, 2022, as compared to \$8.5 million for the three months ended March 31, 2021. The decrease is primarily due to the outstanding Term Loan Credit Facility, which accrued \$3.7 million of interest expense and \$0.1 million of amortization of debt discount during the three months ended March 31, 2022, as compared to the outstanding 2018 Term Loan Credit Facility, which accrued \$6.1 million of interest expense and \$2.2 million of amortization of debt discount during the three months ended March 31, 2021.

Income tax expense. Income tax expense increased by \$0.1 million to \$0.2 million for the three months ended March 31, 2022, as compared to \$0.1 million for the three months ended March 31, 2021. The increase is primarily due to increased revenues, which increased our liability related to Texas franchise taxes.

Year Ended December 31, 2021 Compared To Year Ended December 31, 2020

Product Sales. Product sales increased by \$62.0 million to \$142.5 million for the year ended December 31, 2021, as compared to \$80.5 million for the year ended December 31, 2020. An increase in proppant prices between the periods contributed to a \$37.0 million positive impact, while an increase in sales volume contributed a \$35.0 million positive impact.

Service Sales. Services sales, which includes freight for last-mile logistics services decreased by \$1.4 million to \$29.9 million for the year ended December 31, 2021, as compared to \$31.2 million for the year ended December 31, 2020. The decrease in logistics revenue was due to lower sales volumes shipped to last-mile logistics customers.

Cost of sales (excluding depreciation, depletion and accretion expense). Cost of sales (excluding depreciation, depletion and accretion expense) increased by \$11.6 million to \$84.7 million for the year ended December 31, 2021, as compared to \$73.1 million for the year ended December 31, 2020. Cost of sales (excluding depreciation, depletion and accretion) related to product sales increased by \$10.7 million due to increased sales volumes, which increased costs for utilities, maintenance and royalties. These increases were partially offset by decreased mining and rental equipment costs, due to dredge mining for the full year, and cost efficiencies gained during the period. Cost of sales (excluding depreciation, depletion and accretion expense) related to services decreased by \$0.9 million due to lower sales volumes shipped to last-mile logistics customers during the period.

Depreciation, depletion and accretion expense. Depreciation, depletion and accretion expense increased by \$2.8 million to \$23.7 million for the year ended December 31, 2021, as compared to

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\$20.9 for the year ended December 31, 2020. The increase in depreciation, depletion and accretion expense is due to increased component depreciation for certain product belts used in the proppant production process, as well as increased units of production depletion due to higher sand production when compared to the prior period.

Selling, general and administrative expense. Selling, general and administrative expense decreased by \$0.7 million to \$17.1 million for the year ended December 31, 2021, as compared to \$17.7 million for the year ended December 31, 2020. The decrease is primarily due to a decrease of \$2.4 million in unit-based compensation expense during the year ended December 31, 2021, compared to the year ended December 31, 2020. This decrease was partially offset by an increase of \$1.8 million of employee and marketing costs associated with increased economic activity, from historic lows brought about by the COVID-19 pandemic during the year ended December 31, 2021, compared to the year ended December 31, 2020.

Our selling, general and administrative expenses include the non-cash expense for unit-based compensation for equity awards granted to our employees. For the year ended December 31, 2021, unit-based compensation expense was \$0.1 million, as compared to unit-based compensation expense of \$2.5 million for the year ended December 31, 2020.

Impairment of Long-Lived Assets. We recognized no impairment of long-lived assets expense for the year ended December 31, 2021. We recognized \$1.3 million of impairment of long-lived assets expense for the year ended December 31, 2020, due to a write off of a vendor deposit during the period.

Interest expense, net. Interest expense, net increased by \$9.4 million to \$42.2 million for the year ended December 31, 2021, as compared to \$32.8 million for the year ended December 31, 2020. The increase is primarily due to the recognition of a loss on extinguishment of debt of \$16.4 million resulting from the recognition of unamortized debt discount and deferred financing costs of \$11.9 million and a make-whole premium of \$4.5 million paid upon redemption of the 2018 Term Loan Credit Facility. This increase was partially offset by the recognition of gain on extinguishment of debt of \$4.5 million due to the forgiveness of the SBA Paycheck Protection Program Loan and the related accrued interest expense during the period, and decreased interest expense of \$1.7 million and decreased debt discount amortization of \$0.8 million related to the Term Loan Credit Facility.

Income tax expense. Income tax expense increased by \$0.5 million to \$0.8 million for the year ended December 31, 2021, as compared to \$0.4 million for the year ended December 31, 2020. The increase is primarily due to increased revenues, which increased our liability related to Texas franchise taxes.

Liquidity and Capital Resources

Overview

Our primary sources of liquidity to date have been capital contributions from our owners, cash flows from operations, and borrowings under our 2018 Term Loan Credit Facility, our Term Loan Credit Facility and our ABL Credit Facility. Our primary uses of capital have been capital expenditures to support organic growth and the construction of our Kermit Facility and Monahans Facility. In addition, we have routine facility upgrades and additional ancillary capital expenditures associated with, among other things, contractual obligations and working capital obligations. Funding for these cash needs may be provided by any combination of internally generated cash flow, borrowings under our ABL Credit Facility, additional capital investment from our owners, or other external financing sources. We strive to maintain financial flexibility and proactively monitor potential capital sources, including equity and debt financing, to meet our investment and target liquidity requirements and to permit us to manage the cyclicity associated with our business.

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As of March 31, 2022, we had working capital, defined as current assets less current liabilities, of \$53.9 million and \$26.0 million of availability under the ABL Credit Facility. As of March 31, 2022, our cash and cash equivalents totaled \$53.8 million.

We intend to contribute all of the net proceeds of this offering to Atlas LLC in exchange for Atlas Units. The principal purposes of this offering are to help fund our current growth initiatives, create a public market for our Class A common stock, and facilitate our future access to the capital markets. Atlas LLC will use:

- approximately \$ million of the net proceeds of this offering to fund, in part, the construction of the Dune Express;
- approximately \$ million of the net proceeds of this offering to fund, in part, the expansion of our Kermit facility; and
- approximately \$ million of the net proceeds of this offering to fund general corporate purposes.

We do not currently intend to use any of the net proceeds from this offering to make payments in connection with the Redemption Right or Call Right. Please see the section titled "Use of Proceeds" for more information.

Cash Flow

The following table summarizes our cash flow for the periods indicated:

	For the Three Months Ended March 31,		For the Year Ended December 31,	
	2022	2021	2021	2020
	(unaudited)			
	(In thousands)			
Consolidated Statement of Cash Flow Data:				
Net cash provided by operating activities	\$ 23,699	\$ 4,469	\$ 21,356	\$ 12,486
Net cash used in investing activities	(6,037)	(1,725)	(19,371)	(9,532)
Net cash (used in) provided by financing activities	(4,227)	(9,641)	2,344	11,826
Net increase (decrease) in cash	<u>\$ 13,435</u>	<u>\$ (6,897)</u>	<u>\$ 4,329</u>	<u>\$ 14,780</u>

Three Months Ended March 31, 2022 Compared To The Three Months Ended March 31, 2021

Net Cash Provided by Operating Activities

Net cash provided by operating activities was \$23.7 million and \$4.5 million for the three months ended March 31, 2022 and 2021, respectively. The increase is primarily attributable to increased revenues of \$28.0 million. The increase was partially offset by a \$5.5 million increase in cost of sales (excluding depreciation, depletion and accretion expense).

Net Cash Used in Investing Activities

Net cash used in investing activities was \$6.0 million and \$1.7 million for the three months ended March 31, 2022 and 2021, respectively. The increase was due to an increase in capital spending at the Kermit and Monahans facilities during the three months ended March 31, 2022 when compared to the three months ended March 31, 2021.

Net Cash Used in by Financing Activities

Net cash used in financing activities was \$4.2 million and \$9.6 million for the three months ended March 31, 2022 and 2021, respectively. The decrease is primarily due to a decrease of \$5.7 million for

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payments of term loan borrowings during the three months ended March 31, 2022 compared to the three months ended March 31, 2021.

Year Ended December 31, 2021 Compared To The Year Ended December 31, 2020

Net Cash Provided by Operating Activities

Net cash provided by operating activities was \$21.4 million and \$12.5 million for the year ended December 31, 2021 and 2020, respectively. The increase is primarily attributable to increased revenues of \$60.6 million. The increase was partially offset by an \$11.5 million increase in cost of sales (excluding depreciation, depletion and accretion expense), a \$22.2 million increase in repayment of paid-in-kind interest upon the repayment of the 2018 Term Loan Credit Facility and an \$8.8 million decrease in interest paid-in-kind through the issuance of additional term loans, as we elected not to pay certain term loan interest in-kind as of June 30, 2021.

Net Cash Used in Investing Activities

Net cash used in investing activities was \$19.4 million and \$9.5 million for the year ended December 31, 2021 and 2020, respectively. The increase was due to the purchase of Wyatt's Lodge and an increase in capital spending at the Kermit and Monahans facilities during the year ended December 31, 2021 when compared to the year ended December 31, 2020.

Net Cash Provided by Financing Activities

Net cash provided by financing activities was \$2.3 million and \$11.8 million for the year ended December 31, 2021 and 2020, respectively. The decrease is primarily due to an increase of \$165.6 million for the repayment of the 2018 Term Loan Credit Facility partially offset by an increase of \$163.2 million from proceeds of term loan borrowings during the year ended December 31, 2021 compared to the year ended December 31, 2020.

Capital Requirements

Outside of our growth and technology initiatives, our business is not presently capital intensive in nature and only requires the maintenance of our two existing proppant production facilities. Our current level of capital expenditures is expected to remain within our internally generated cash flow as we maintain significant flexibility around the timing of capital expenditures. For the fiscal year ended December 31, 2022, we expect our capital expenditures to range from \$ million to \$ million.

We intend to fund capital requirements through our primary sources of liquidity, which include cash on hand and cash flows from operations and, if needed, our borrowing capacity under the Credit Facility.

If and to the extent our board of directors were to declare a cash distribution to our Class A common stockholders, we currently expect the dividend to be paid from free cash flow. We do not currently expect to borrow funds or to adjust planned capital expenditures to finance dividends on our Class A common stock, if any such dividends were to be declared by our board of directors. The timing, amount and financing of dividends, if any, will be subject to the discretion of our board of directors from time to time following this offering. Please see the section titled "Dividend Policy."

Debt Agreements

ABL Credit Facility

On December 14, 2018, the Company and the ABL Lenders entered into the ABL Credit Agreement pursuant to which the ABL Lenders provide revolving credit financing to the Company in an aggregate principal amount of up to \$50.0 million with availability thereunder subject to a borrowing base as described in the ABL Credit Agreement. The ABL Credit Facility includes a letter of credit sub-facility, which permits issuances of letters of credit up to an aggregate amount of \$10.0 million. As of March 31, 2022, the Company had an aggregate principal amount of \$0.4 million in letters of credit outstanding under the ABL Credit Facility. The ABL Credit Facility will mature on December 14, 2023.

Borrowings under the ABL Credit Facility bear interest, at the Company's option, at either a base rate or LIBOR, as applicable, plus an applicable margin based on average excess availability as set forth in the ABL Credit Agreement. LIBOR loans bear interest at the LIBOR plus an applicable margin, which ranges from 1.50% to 2.00% per annum based on average excess availability as set forth in the ABL Credit Agreement. Base rate loans bear interest at the applicable base rate, plus an applicable margin, which ranges from 0.50% to 2.00% per annum based on average excess availability as set forth in the ABL Credit Agreement. In addition to paying interest on outstanding principal under the ABL Credit Facility, the Company is required to pay a commitment fee of 0.375% per annum with respect to the unutilized commitment under the ABL Credit Facility, based on the average utilization of the ABL Credit Facility. The Company is also required to pay customary letter of credit fees, to the extent that one or more letter of credit is outstanding. As of March 31, 2022, we were in compliance with all covenants associated with the ABL Credit Facility and we had no borrowings outstanding.

The ABL Credit Facility is unconditionally guaranteed, jointly and severally, by the Company and its subsidiaries and secured by substantially all of the assets of the Company and its subsidiaries.

Term Loan Credit Facility—Stonebriar Commercial Finance, LLC

On October 20, 2021, we entered into a credit agreement with Stonebriar Commercial Finance LLC (the "Term Lender") pursuant to which the Term Lender extended a \$180.0 million single advance term loan credit facility (the "Term Loan Credit Facility"). The term loan outstanding under the Term Loan Credit Facility is payable in seventy-two consecutive monthly installments in varying amounts as more particularly set forth in the promissory note that was executed and delivered in connection with the Term Loan Credit Facility and has a final maturity date of October 1, 2027. The amortization of the Term Loan Credit Facility carries an implied interest rate of 8.47% per annum.

At any time prior to the October 1, 2027 maturity date, we may redeem the Term Loan Credit Facility, in whole or in part, at a price equal to 100% of the principal amount plus a prepayment fee. The prepayment fee ranges from 3% on or before October 19, 2022, to 2% after October 19, 2022, and on or before October 19, 2023, and 1% thereafter. Upon maturity of the Term Loan Credit Facility, the entire unpaid principal amount, together with interest, fees and other amounts payable in connection with the facility, will be immediately due and payable without further notice or demand. Mandatory debt service (inclusive of principal repayment and interest) is \$30 million per year for the first two years of the Term Loan Credit Facility, increasing to \$45 million for the final four years.

The Term Loan Credit Facility includes certain non-financial covenants, including but not limited to restrictions on incurring additional debt and certain distributions. The Term Loan Credit Facility is not subject to financial covenants, but does require us to maintain a minimum average liquidity balance of not less than \$20.0 million at any time there are loans of \$5.0 million or more in the aggregate outstanding under our ABL Credit Facility.

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Proceeds from the Term Loan Credit Facility were used to repay of outstanding indebtedness under our previous term loan credit facility with BlackGold Capital Management to make permitted distributions, and for general corporate purposes.

Quantitative and Qualitative Disclosure about Market Risk

Commodity Price Risks

The market for our services is indirectly exposed to fluctuations in the price of crude oil and natural gas, to the extent such fluctuations impact drilling and completion activity levels and thus impact the activity levels of our customers in the exploration and production and oilfield services industries. We do not currently intend to hedge our indirect exposure to commodity price risk.

Our natural gas purchases expose us to commodity price risk. Our facility operations require natural gas consumption for motorized facility equipment used in the manufacturing of proppant. Pricing for natural gas has been volatile and unpredictable for several years, and this volatility is expected to continue in the future. The cost we pay for our natural gas depends on many factors outside of our control, such as the strength of the global economy and global supply and demand for the commodities we produce. To reduce the impact of fluctuations in natural gas prices on our operational costs, we periodically enter into commodity derivative contracts with respect to certain of our forecasted natural gas usage through various transactions that reduce the impact of price volatility. We plan to continue our practice of entering into such transactions to reduce the impact of commodity price volatility on our cash flow from operations. These hedging activities are intended to manage our exposure to natural gas price fluctuations.

Interest Rate Risks

We are subject to interest rate risk on a portion of our long-term debt under the ABL Credit Facility. The amounts owed under our ABL Credit Facility use LIBOR as a benchmark for establishing the rate at which interest accrues. In accordance with regulatory requirements and guidance, LIBOR is being phased out as a benchmark interest rate for commercial loan transactions. To account for this, the Fourth Amendment to the ABL Credit Agreement (the "Fourth Amendment") amended the ABL Credit Agreement to add provisions addressing the potential transition from LIBOR to SOFR in the event the administrator of LIBOR has ceased or will cease publication of LIBOR. We do not currently have any borrowings under our ABL Credit Facility and do not currently have or intend to enter into any derivative arrangements to protect against fluctuations in interest rates applicable to our outstanding indebtedness under our ABL Credit Facility.

Market Risks

The demand, pricing and terms for proppant and last-mile services provided by us are largely dependent upon the level of drilling activity in the oil and natural gas industry in the Permian Basin. These activity levels are influenced by numerous factors over which we have no control, including, but not limited to: the supply of and demand for oil and natural gas; the level of prices, and expectations about future prices of oil and natural gas; the cost of exploring for, developing, producing and delivering oil and natural gas; the expected rates of declining current production; the discovery rates of new oil and natural gas reserves; available rail and other transportation capacity; weather conditions; domestic and worldwide economic conditions; political instability in oil-producing countries; environmental regulations; technical advances affecting energy consumption; the price and availability of alternative fuels; the ability of oil and natural gas companies to raise equity capital and debt financing; and merger and divestiture activity among oil and natural gas companies.

The level of U.S. oil and natural gas drilling is volatile. Expected trends in oil and natural gas production activities may not materialize and demand for our services may not reflect the level of

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activity in the industry. Any prolonged and substantial reduction in oil and natural gas prices would likely affect oil and natural gas production levels and therefore affect demand for our services. A material decline in oil and natural gas prices or Permian Basin activity levels could have an adverse effect on our business, financial condition, results of operations and cash flows.

Credit Risks

We are subject to risks of loss resulting from nonpayment or nonperformance by our customers. We examine the creditworthiness of third-party customers to whom we extend credit and manage our exposure to credit risk through credit analysis, credit approval, credit limits and monitoring procedures, and for certain transactions, we may request letters of credit, prepayments or guarantees, although collateral is generally not required. As of March 31, 2022, we had 31 customers, of which six were investment grade. As of December 31, 2021, we had 32 customers, of which four were investment grade.

Inflation Risks

Inflationary factors such as increases in the cost of our products and overhead costs may adversely affect our results of operations. Although we do not believe that inflation has had a material impact on our financial position or results of operations to date, a high rate of inflation in the future may have an adverse effect on our ability to maintain current levels of gross margin and selling, general and administrative expenses as a percentage of net revenue if the selling prices of our products do not increase with these increased costs.

Critical Accounting Policies and Estimates

The preparation of financial statements requires the use of judgments and estimates. Our critical accounting policies are described below to provide a better understanding of how we develop our assumptions and judgments about future events and related estimates and how they can impact our financial statements. A critical accounting estimate is one that requires our most difficult, subjective or complex estimates and assessments and is fundamental to our results of operations.

We base our estimates on historical experience and on various other assumptions we believe to be reasonable according to the current facts and circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. We believe the following are the critical accounting policies used in the preparation of our combined financial statements, as well as the significant estimates and judgments affecting the application of these policies. This discussion and analysis should be read in conjunction with our combined financial statements and related notes included in this report.

Our significant accounting policies are described in Note 2 to our audited consolidated financial statements as of and for the years ended December 31, 2021 and 2020 and our unaudited interim condensed consolidated financial statements as of March 31, 2022 and December 31, 2021 and for the three months ended March 31, 2022 and 2021 included elsewhere in this prospectus. We prepare our consolidated financial statements in conformity with generally accepted accounting principles in the United States of America ("U.S. GAAP"), which requires us to make estimates and assumptions about future events that affect the amounts reported in the consolidated financial statements and accompanying footnotes. Actual results could differ from those estimates. For additional information concerning certain estimates and assumptions, see the respective footnotes to our audited consolidated financial statements as of and for the years ended December 31, 2021 and 2020 included elsewhere in this prospectus. We believe that the following discussion addresses our most critical accounting estimates, which require management's most subjective and complex judgments.

Property, Plant and Equipment, Including Depreciation and Depletion

In order to calculate depreciation for our fixed assets, other than plant facilities and mine development costs, we use the best estimated useful lives at the time the asset is placed into service.

Mining property and development costs, including plant facilities directly associated with mining properties, are amortized using the units of production method on estimated measures of tons of in-place reserves. The impact to reserve estimates is recognized on a prospective basis. Drilling and related costs are capitalized for deposits where proven and probable reserves exist. These activities are directed at obtaining additional information on the deposit or converting non-reserve minerals to proven and probable reserves, with the benefit being realized over a period greater than one year. At a minimum, we will assess the useful lives and residual values of all long-lived assets on an annual basis to determine if adjustments are required. The actual reserve life may differ from the assumptions we have made about the estimated reserve life.

We review property, plant and equipment for impairment annually or whenever events or changes in circumstances indicate that the carrying value of such assets may not be recoverable. If such a review should indicate that the carrying amount of long-lived assets is not recoverable, the Company will reduce the carrying amount of such assets to fair value.

Recently Issued Accounting Pronouncements

See Note 2, "Summary of Significant Accounting Policies" to our audited consolidated financial statements as of and for the years ended December 31, 2021 and 2020 and Note 2, "Summary of Significant Accounting Policies" and Note 5, "Leases" to our unaudited interim condensed consolidated financial statements as of March 31, 2022 and December 31, 2021 and for the three months ended March 31, 2022 and 2021, included elsewhere in this prospectus, for a discussion of recent accounting pronouncements.

Under the JOBS Act, we expect that we will meet the definition of an "emerging growth company," which would allow us to have an extended transition period for complying with new or revised accounting standards pursuant to Section 107(b) of the JOBS Act, but we have irrevocably opted out of the extended transition period and, as a result, we will adopt new or revised accounting standards on the relevant dates in which adoption of such standards is required for other public companies. In June 2016, the Financial Accounting Standards Board issued ASU 2016-13, *Financial Instruments — Credit Losses (Topic 326)*, which amends the guidance on the impairment of financial instruments. The standard adds an impairment model, referred to as current expected credit loss, which is based on expected losses rather than incurred losses. The standard applies to most debt instruments, trade receivables, lease receivables, reinsurance receivables, financial guarantees and loan commitments. Under the guidance, companies are required to disclose credit quality indicators disaggregated by year of origination for a five-year period. In May 2019, ASU 2016-13 was subsequently amended by ASU 2019-04, *Codification Improvements to Topic 326, Financial Instruments – Credit Losses*, ASU 2019-05, *Financial Instruments – Credit Losses (Topic 326): Targeted Transition Relief*. The new guidance is effective for fiscal years beginning after December 15, 2021. The Company is currently evaluating the impact of the ASU on the consolidated financial statements and does not believe it will have a material impact on the consolidated financial statements.

Internal Controls and Procedures

We are not currently required to comply with the SEC's rules implementing Section 404 of the Sarbanes-Oxley Act and are therefore not required to make a formal assessment of the effectiveness of our internal control over financial reporting for that purpose. Upon becoming a public company, we

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will be required to comply with the SEC's rules implementing Section 302 of the Sarbanes-Oxley Act, which will require our management to certify financial and other information in our quarterly and annual reports and provide an annual management report on the effectiveness of our internal control over financial reporting. We will not be required to make our first assessment of the effectiveness of our internal control over financial reporting under Section 404 until our second annual report on Form 10-K after we become a public company.

Further, our independent registered public accounting firm is not yet required to formally attest to the effectiveness of our internal controls over financial reporting and will not be required to do so for as long as we are an "emerging growth company" pursuant to the provisions of the JOBS Act. Please see the subsection titled "Summary—Emerging Growth Company Status" for more information.

Off Balance Sheet Arrangements

We currently have no material off-balance sheet arrangements.

Environmental and Other Governmental Regulations

We are subject to a variety of federal, state and local regulatory environmental requirements affecting the proppant production and mineral processing industry, including among others, those relating to employee health and safety, environmental permitting and licensing, air and water emissions, GHG emissions, water pollution, waste management, remediation of soil and groundwater contamination, land use, restoration of properties, hazardous materials and natural resources. We have made, and expect to make in the future, expenditures to comply with such laws and regulations, but cannot predict the full amount of such future expenditures.

We discuss certain environmental matters relating to our various production and other facilities, certain regulatory requirements relating to human exposure to crystalline silica and our proppant production activity under the subsection titled "Business—Environmental and Occupational Health and Safety Regulations."

INDUSTRY

Overview

The proppant industry is comprised of businesses that engage in the production of propping agents for use in the hydraulic fracturing of oil and natural gas wells, the preferred method for stimulating increased production in oil and natural gas shale reservoirs. This process consists of perforating wellbores with small explosive charges lowered into the wellbore and then pumping fluids down the wellbore and through the perforations at pressure and flow rates sufficient to crack, or fracture, the hydrocarbon-bearing rock. Once the hydrocarbon-bearing rock is fractured, proppant is pumped down the wellbore to fill the fractures and “prop” them open, creating a more conductive channel through which the hydrocarbons can more freely flow from the reservoir and into the wellbore. Once the hydrocarbon-bearing rock is fractured, proppant is pumped down the wellbore to fill the fractures and “prop” them open, creating a more conductive channel through which the hydrocarbons can more freely flow from the reservoir and into the wellbore. Recent innovations in drilling techniques, which have increased drilling efficiency, have had a significantly positive impact on the demand for hydraulic fracturing services, in turn driving the demand for proppants like those we produce.

BUSINESS

Our Company

Overview

We are an innovation-focused leading provider of proppant and logistics services to customers engaged in the oil and natural gas industry within the Permian Basin of West Texas and New Mexico, the most active basin in North America by rig count. Our core mission and key focus is to create a best-in-class value proposition for our stockholders by generating strong free cash flow, regularly returning capital to investors, reinvesting selectively to drive growth and maintaining a strong balance sheet to ensure our financial health throughout our industry's cycles. We aim to accomplish our mission and capitalize on our strategic advantages through the use of differentiated and innovative techniques and technologies to develop our high quality and uniquely positioned resource base.

We were founded in 2017 by Ben ("Bud") Brigham, our Executive Chairman, and are led by an experienced team of entrepreneurs from the oil and natural gas, transportation, industrial and proppant industries who have an established history of value creation and positive disruption in the energy industry. Our executive management team has over 75 years of combined industry experience and a history of generating positive returns, exemplified by Bud Brigham's significant experience leading companies such as Brigham Exploration, Brigham Resources and Brigham Minerals through a successful IPO or an acquisition event. We believe this experience and our associated knowledge base differentiates us from our competitors and facilitates our ability to identify and execute as an early mover on critical value drivers, helping us to maximize the full potential of our business and outcomes for our stockholders. We have increased the volume of proppant sold in every year since our inception.

We have assembled the sand mining rights associated with approximately 38,000 acres in the Winkler Sand Trend located in Winkler and Ward Counties, Texas, which are logistically well positioned to serve the entire Permian Basin. We control 14,575 acres of large open-dune reserves and resources, which represent more than 70% of the large open-dune acreage in the Winkler Sand Trend that is available for sand mining, making us the primary producer of proppant from the large open-dune deposits inside the Winkler Sand Trend. Large open-dune reserves accounted for 100% of our produced volumes for the three months ended March 31, 2022 and the year ended December 31, 2022. As the reserves of these large open dunes have not been subject to the same degree of soil development, organics and impurities as buried sand deposits, they tend to produce better yields relative to buried sand deposits. Large open-dune reserves have also been proven to produce a higher-quality product (as measured by tests of crush strength, turbidity, etc.) more efficiently and with a smaller environmental footprint as compared to buried sand reserves throughout the Permian Basin.

We were an early disruptor of the legacy Permian Basin proppant supply chain through the development of our in-basin sand resource. In-basin sand provides Permian Basin end-users with a logistically superior alternative to out-of-basin sand, shortening the supply chain and eliminating the need for rail transportation, transload storage, long truck hauls and other related costs, risks and inefficiencies. This disruption correspondingly provides economic and environmental benefits, including a significant reduction in emissions (for example, we estimate that shipping our annual capacity of 10 mmtpy by rail from Eau Claire, WI to wellsites in the Permian Basin through a Pecos, TX transload would generate an estimated additional 200,000 metric tonnes of CO₂e as compared to shipping that product from our local facilities). Since our founding, we have continued to innovate in order to benefit our stockholders, our customers and the communities we operate in through enhanced efficiency, productivity and environmental benefits. In 2020, we became the first proppant producer in the Permian Basin to engage in e-mining at both of our plants, which we estimate has reduced our costs

significantly and our estimated emissions related to mining activities by approximately half as compared to traditional mining. Our ongoing significant innovation projects:

- **Dune Express Conveyor:** The Dune Express conveyor project, which will originate at our Kermit facility and stretch into the middle of the Northern Delaware Basin, will be the first long-haul proppant conveyor system in the world and will facilitate the delivery of proppant to the Delaware Basin. See the subsection titled “—Growth and Technology Initiatives—Dune Express” below for additional information regarding the Dune Express.
- **Autonomous Trucking:** We have partnered with a leading technology provider with assets in the field of GPS-denied off-road applications alongside established equipment OEMs and expect to begin receiving deliveries of vehicles in the first quarter of 2023 with off-road platooning automation beginning in mid-2023, and deliveries of fully automated vehicles targeted to begin in 2025. See the subsection titled “—Growth and Technology Initiatives—Autonomous Trucking” below for additional information regarding our autonomous trucking initiatives.

Together, we believe these initiatives could have a significant impact in driving future revenue and increasing cash flow, reducing emissions, improving safety and relieving traffic and other burdens produced by the existing means of last-mile delivery.

Our organizational structure following the offering and corporate reorganization is commonly referred to as an Up-C structure. Pursuant to this structure, following this offering we will hold a number of Atlas Units equal to the number of shares of Class A common stock issued and outstanding, and the Atlas Unitholders (other than us) will hold a number of Atlas Units equal to the number of shares of Class B common stock issued and outstanding. The Up-C structure was selected in order to (i) allow certain Legacy Owners the option to continue to hold their economic ownership in Atlas LLC in “pass-through” form for U.S. federal income tax purposes through their ownership of Atlas Units, and (ii) potentially allow us to benefit from certain net cash tax savings that we might realize as a result of certain increases in tax basis that may occur as a result of Atlas Inc.’s acquisition (or deemed acquisition for U.S. federal income tax purposes) of Atlas Units pursuant to the exercise of the Redemption Right or the Call Right.

Value Proposition to Our Stockholders

Our ability to generate free cash flow is paramount to our value proposition, as it correlates to our ability to regularly return capital to our stockholders. We have experienced significant growth in net income, Adjusted EBITDA, net cash provided by operating activities and Adjusted Free Cash Flow since January 2021, as oil and natural gas prices have improved, and the proppant market has tightened. For the three months ended March 31, 2022, we generated \$20.8 million in net income, \$31.0 million in Adjusted EBITDA, \$23.7 million in net cash provided by operating activities and \$22.3 million in Adjusted Free Cash Flow (representing an Adjusted EBITDA Margin of 51.8% and an Adjusted Free Cash Flow Margin of 37.3%). For the year ended December 31, 2021, we generated \$4.3 million in net income, \$72.0 million in Adjusted EBITDA, \$21.4 million in net cash provided by operating activities and \$64.2 million in Adjusted Free Cash Flow (representing an Adjusted EBITDA Margin of 41.7% and an Adjusted Free Cash Flow Margin of 37.3%). Please see the subsection titled “—Summary Historical and Pro Forma Financial and Operating Data—Non-GAAP Financial Measures” for more information. While improved market prices for proppant lead to improvements in measures of our performance, including those detailed above, our low and flexible operating cost structure also contributes materially to our ability to generate Adjusted Free Cash Flow. We have driven significant improvements in our costs of sales on a per ton basis since the commencement of our operations in 2018.

Value Proposition to Our Community and Stakeholders

We have a long history of being good stewards of not only stockholder capital but also of the environments and communities in which we live and operate. Our core obligation is to our

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stockholders, and we recognize that maximizing value for our stockholders requires that we optimize the outcomes for our broader stakeholders, including our employees, as well as the communities and the environments in which we operate. As a result, we deliver leadership across all aspects of ESG matters. Our aptitude on ESG matters benefits from our commitment to identifying and executing upon opportunities to transform our business which enhance our growth and profitability through the implementation of new technologies.

Environmental

To our knowledge, we are the only proppant producer in the Permian Basin that engages in e-mining, which generates materially lower emissions than traditional sand mining. The electric dredge process at both of our Kermit and Monahans facilities exemplifies the alignment of both our operational and ESG leadership, as this process has materially improved safety and, based on our estimates, reduced emissions by approximately 50% versus traditional sand mining methods due to the significant reduction in diesel, fuel usage required to mine sand traditionally, partially offset by increased electricity consumption from our dredges. Our proppant production process also leads to less surface area mined per ton of sand produced as we mine to greater depth as compared to mining associated with buried sand deposits, and therefore, results in less environmental disturbance.

Our large open-dune reserves, paired with the replenishing water sources from our acreage's in-ground aquifers, are the key reasons why we are able to adopt a technology normally reserved for use in rivers and other bodies of water for use in the desert of West Texas. Our reserves benefit from a naturally occurring water table near the surface of our mines, which is unique in the Winkler Sand Trend and provides an ample natural supply of costless water for dredge and wash plant operations while minimizing the impact on regional aquifers.

Additionally, the results of the Transportation Study, when integrated with our management's internal analysis, support our estimate that our planned Dune Express sand conveyor system could significantly reduce emissions that would otherwise be produced by trucking-related activities associated with the delivery of proppant from the mines of Permian Basin providers to end users. Our estimates project that the system will result in an approximate 70% reduction in carbon dioxide emissions and other emissions, including pollutants that are harmful to humans. See the subsection titled "—Growth and Technology Initiatives—Dune Express" below for additional information regarding the Dune Express project.

The graphic below summarizes our estimates of the percentage reduction in the truck miles driven and associated emissions and emission costs attributable to the anticipated operation of our inaugural Dune Express conveyor system, as compared to current traditional practices.



Our management team has been proactive with respect to the protection of the DSL and its habitat in an effort to reduce the risk that our business and operations will be materially interrupted in the event that the DSL is listed under the ESA. We have adopted numerous best practices to promote active

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conservation measures for the benefit of the DSL, including our identification of up to 17,000 acres of land for set asides, our pursuit of more environmentally friendly mining practices and our participation in the CCAA for the DSL. See the subsection titled “—Competitive Strengths —Proactive approach to the well-being of the environment and our employees” below. In January 2021, the CCAA was approved by the USFWS to provide a framework for entry into voluntary conservation agreements between the USFWS and stakeholder participants under which the parties work together to identify threats to the DSL, design and implement conservation measures to address these threats and monitor their effectiveness, among other things. Atlas has been a supporter of the CCAA since its inception and was the first proppant producer to apply for a permit under, and be accepted into, the CCAA. Due to our participation in the CCAA and other conservation measures that we have voluntarily adopted, we do not anticipate that a listing of the DSL as an endangered species would materially reduce sand production at our Kermit and Monahans facilities. We are currently only one of three companies participating in the CCAA. In the event that the DSL is listed as an endangered species under the ESA, it is possible that companies that are not participants in the CCAA at the time of a future ESA listing would see a disruption to their operations.

Social

We have committed to fostering a safe environment at our worksites and we are committed to extending this culture of safety far beyond our premises. We have a rigorous safety training program with well-developed protocols. We have automated or have invested in remote operations technology to substantially reduce the amount of the activities at the plant sites that require physical interaction between human beings and industrial equipment, and in doing so have removed many of the safety hazards at our facilities.

We anticipate that our planned Dune Express project will provide significant environmental benefits, while also benefitting the surrounding region, making it a safer place to live and work. Our management’s analysis of the results of the Transportation Study supports our expectation that the Dune Express will contribute to a meaningful reduction in Permian Basin traffic accidents, congestion and automobile fatalities, by taking trucks off public roads and operating in a much more efficient manner than the industry has historically operated. We believe this will also benefit the community by reducing the wear and tear on local infrastructure, while making the region a safer and better place to live and work. Furthermore, by reducing the number of drivers needed per well and in the aggregate, these initiatives can meaningfully reduce trucking-related hazards on customer wellsites and mitigate future driver shortages.

The graphic below summarizes our estimates of the percentage reduction in the truck miles driven and associated traffic accidents, traffic fatalities and average truck drivers needed per Permian Basin wellsite that is attributable to the anticipated operation of our inaugural Dune Express conveyor system as compared to traditional practices.



We are actively engaged in the West Texas community in which we operate, as we believe that by supporting our community, our community will support us. We sponsor a number of programs benefitting schools and the youth in Winkler and Ward Counties, Texas, including supporting after-school programs for children and skill-development programs for high school students.

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Our Company's culture is a product of our employees, and as such, we embrace the responsibility of promoting a diverse and inclusive meritocracy, with over 60% minority and/or female representation in our workforce as of March 31, 2022. We reward the hard work of our employees by compensating them well, with our median employee earning in excess of \$100,000 per year as of 2021. Furthermore, we provide our employees with a high-quality benefits package including full family medical, dental and vision insurance, a company 401(k) match program and substantial paid time off or rotational schedules. For our employees in West Texas, we provide convenient, safe and comfortable living facilities at Wyatt's Lodge, our distinctive alternative to the traditional, notoriously unsafe and unsanitary housing accommodations provided for many oilfield employees. Wyatt's Lodge provides employees with fully furnished housing, a full cafeteria with a chef and a diverse menu including healthy options, a workout facility, as well as a recreational room and a movie theater. The success of our efforts to create a high-quality workplace is evidenced by our low employee turnover and accolades that include the "Great Place to Work" certification from the Great Place to Work Institute, Inc. for the years ended December 31, 2019, 2020 and 2021, as well as the "Top Work Places" Award of Recognition from Austin American-Statesman for the year ended December 31, 2021.

We believe that the men and women who have served in the United States armed forces have earned a special place in our society. As such, at our founding we created a dedicated effort to support our veterans in our hiring. We have found our focus on recruiting veterans to work for Atlas has brought us many hardworking and outstanding employees over the years and has positively influenced our corporate values. We have received external recognition for our veteran hiring practices, including the Hire Vets Medallion from the DOL in 2019, 2020 and 2021. As of March 31, 2022, 11% of our employees served in the U.S. military as compared to an average of 5.6% across all employers nationally.

Governance

We believe that the alignment of our employees, our management and our board of directors with our stockholders is paramount. A few examples of the actions that we will take in connection with this offering or the characteristics that highlight the alignment of interests between our management and stockholders are as follows:

- We will establish a diverse and independent board with complementary skills and backgrounds.
- We will adopt an executive compensation program that encourages return of capital to stockholders, including through the use of performance-based compensation, with performance metrics that focus business strategy and corporate objectives on total shareholder return, and equity-based long-term incentives.
- We will adopt a director compensation policy for our non-employee directors in which a significant portion of the total compensation package is equity based to further align the interests of our directors with our stockholders.
- Management will maintain significant initial ownership in the Company after completion of this offering.

Management and Historical Successes

We were founded by Bud Brigham, our Executive Chairman, and are led by an experienced team of entrepreneurs from oil and natural gas, transportation, industrial and proppant industry backgrounds. We believe our management team's deep industry experience, record of successful value creation and established history as entrepreneurs and positive disruptors in the energy industry are unique advantages that enable us to continually identify critical value-creation drivers that will allow us to maximize the full potential of our business and the outcomes for our stockholders and stakeholders alike. However, past performance of our management team, our directors or their affiliates is not a guarantee of our future success or similar results. You should not rely on the historical record of our management team, our directors or their affiliates as indicative of the future performance of an investment in us or the returns we will, or are likely to, generate going forward.

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Brigham Exploration

Prior to founding Atlas LLC, Bud Brigham founded Brigham Exploration, a positive disruptor and innovator in the E&P space. Brigham Exploration was an early pioneer in 3-D seismic exploration onshore, and went public in 1997. In subsequent years, Bud oversaw the identification, acquisition, delineation and development of approximately 375,000 net acres in the Williston Basin. Brigham Exploration established itself as a leading innovator in horizontal drilling and fracking, as well as oil, gas and water gathering and distribution. The company delivered industry leading operational and economic performance, leading up to Brigham Exploration's sale to Statoil in December 2011 for an enterprise value of \$4.7 billion.

Brigham Resources

Immediately following the sale of Brigham Exploration, Bud Brigham and others from the Brigham Exploration management team founded Brigham Resources and executed on similar strategies in the Southern Delaware Basin in West Texas. By applying rigorous geologic evaluation criteria, Brigham Resources was an early entrant in the Southern Delaware Basin in Pecos County, Texas, where it assembled an approximately 80,185 net acre leasehold position in a largely contiguous block. Like its predecessor, Brigham Resources again was a leading innovator in the play, generating significant enhancements in operational and economic performance, prior to selling its assets to Diamondback in February 2017 for approximately \$2.6 billion.

Brigham Minerals

In addition, in 2012, Bud Brigham and other members of his management team founded Brigham Minerals, a mineral acquisition company that leverages its knowledge base and experience to acquire mineral ownership in top-tier liquids rich domestic resource plays. Subsequent to its rapid growth as a private enterprise, Brigham Minerals' management executed an upsized \$300 million IPO in April 2019. As of March 31, 2022, Brigham Minerals actively manages a portfolio of approximately 93,465 net royalty acres across 36 counties within the Delaware and Midland Basins in West Texas and New Mexico, the SCOOP/STACK plays in the Anadarko Basin of Oklahoma, the Denver-Julesburg Basin in Colorado and Wyoming and the Williston Basin in North Dakota.

Assets and Operations

We currently control the largest and, we believe, the highest quality sand position in West Texas. We have developed our Kermit and Monahans facilities as in-basin frac sand mines on approximately 38,000 surface acres that we own or lease in Winkler and Ward Counties, Texas. We control 14,575 acres of large open-dune reserves and resources, which represent more than 70% of the open-dune acreage in the Winkler Sand Trend available for sand mining. The Monahans Dune consists of approximately 8,750 acres of premium open-dune reserves. Additionally, we have substantial off-dune acreage at Monahans that is not included in our estimated reserves or resources but that could be mined following our removal of associated overburden. The Kermit Dune consists of approximately 5,825 acres of premium open-dune reserves. We lease a portion of the reserves associated with our Kermit operations and all of the reserves associated with our Monahans operations. The rights and access to the mineral reserves associated with our Monahans operations are secured under a lease agreement with Permian Dunes Holding Company, LLC, a related party and our largest unitholder. We have received the material permits required to operate our Kermit and Monahans facilities from the Air Permits Division of the Texas Commission on Environmental Quality, Winkler County, the federal Mine Safety and Health Administration and the Texas Department of Transportation. See the sections titled "—Our Permits" and "—Our Lease and Royalty Arrangements" for more information. Both mines are currently in the production stage.

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Our “twin” mines, located on the bookends of the Winkler Sand Trend, provide optimal logistics to serve both the Southern and Northern portions of the Delaware and Midland Basins and, as of March 31, 2022, have a combined annual production capacity of 10.0 million tons, 70,000 tons of dry storage, 700,000 tons of wet storage and 14 loadout lanes. Independent testing by Proptester indicates that the sand produced from our mines is the highest quality of all Permian Basin sand producers. Innovative plant design and large-scale operations ensure low-cost operations and continuity on site. Redundancies were designed into our facilities to remove singular points of failure that can disrupt the production process, ensuring maximum reliability of proppant production and delivery.

Additionally, the size and depth of our large open-dune reserves provides us with a distinct advantage relative to our competitors, including the fact that in the Winkler Sand Trend we uniquely benefit from a naturally occurring water table near the surface of our deposit, providing an ample natural supply and costless water for dredge and wash plant operations, while minimizing the impact on regional aquifers. The size, scale, quality, cost and reduced environmental impact associated with mining the two large open dunes in the Winkler Sand Trend positively differentiates us relative to our competition.

Our Kermit and Monahans facilities were built to produce high quality 40/70-mesh and 100-mesh sands, each of which are used extensively in upstream operations in the Permian Basin. As of March 31, 2022, each facility is in the production stage and capable of producing approximately 5.0 million tons of sand annually for a combined annual production capacity of approximately 10.0 million tons, and each facility was constructed with a modular design that provides us with the flexibility to expand one or both of the existing facilities to achieve incremental production capacity if such expansion were found to be necessary or desirable in light of customer demand, broader market conditions or other relevant considerations. The facilities are capable of operating year-round and feature advanced safety designs, onsite water supply, power infrastructure and access to low-cost natural gas through connections to interstate natural gas lines. Further, we strategically benefit from the locations of our facilities proximal to major highways at the south and north ends of the Winkler Sand Trend. Our Kermit facility is bisected by two state highways, while our Monahans facility is adjacent to two highways, one of which is Interstate 20, facilitating efficient transportation of our proppant to customers located at various points within the Permian Basin.

The operations of both sand facilities are managed and monitored in a highly automated manner from our command center in Austin, Texas. We have designed and/or adopted cutting-edge technology that we believe delivers one of the most efficient production and truck loading processes in the industry. This facility-wide ecosystem is comprised of live data and video feeds, two-way video calling at potential customer touchpoints, process control monitoring and RFID technology that work seamlessly together. The remote ecosystem allows our employees to simultaneously manage processes at both facilities, resulting in significant personnel productivity gains.

As of December 31, 2021, we had 368 million tons of proven and probable sand reserves at our Kermit and Monahans facilities according to estimates by John T. Boyd Company, our independent mining engineers and geologists. Based on our total annual expected production capacity of approximately 10.0 million tons as of December 31, 2021, our reserve life is expected to be approximately 37 years. As of December 31, 2021, our reserves are composed of approximately 58% 40/70-mesh and 42% 70/140-mesh substrate sand. We believe our reserve composition is attractive to customers that want to consolidate sourcing and positions us as a go-to provider of high quality in-basin proppant.

Growth and Technology Initiatives

Currently, significant innovations include our Dune Express project, as well as our autonomous trucking initiative, with which we aim to revolutionize the delivery of proppant.

Dune Express

We are developing the world's first electrified proppant conveyor system serving the oilfield, the Dune Express. The Dune Express is expected to take thousands of trucks off public roads, which should reduce traffic accidents and fatalities in the region and significantly reduce emissions generated, relative to the traditional delivery of sand by Permian Basin producers.

Our plans for the initial Dune Express conveyor system entail a 42-mile long, 13 mmtpy capacity conveyor system built to deliver proppant to oil and natural gas companies operating in the Northern and Central Delaware Basin. According to [redacted], the Permian Basin is expected to consume approximately 60 million tons of proppant in 2022 and 71 million tons of proppant in 2023, respectively. This conveyor system will be strategically located to deliver proppant to the core of the most prolific producing region of the Delaware Basin with flexible loadout capabilities, including both permanent and mobile loadouts. We have secured the contiguous right-of-way, substantially completed the requisite federal and state permitting necessary for construction of the Dune Express and are currently in active negotiations with upstream producers for contracts to secure capacity on the Dune Express.

We currently expect construction of the Dune Express conveyor system to begin in the [redacted] quarter of [redacted]. Our anticipated cost for completion of the Dune Express system is approximately \$ [redacted].

Autonomous Trucking

Consistent with our focus on leveraging technology to improve our operations, we are expanding our footprint in the proppant delivery logistics business through the use of autonomous trucking. In March 2022, we entered into a definitive agreement with a leading provider of autonomous vehicle technology holding an established record of addressing off-road and technically challenging applications. Under the terms of the agreement, the technology provider has committed to meet certain performance hurdles corresponding to increased levels of transportation autonomy as demonstrated by use in the field, which align with our commitment to expand our fleet of autonomously enabled vehicles. In May 2022, we entered into a Master Lease Agreement with a commercial equipment financing provider for the right, but not the obligation, to require such provider to fund up to \$70.0 million of purchases related to the fleet build-out and associated logistics equipment. We expect to begin operations with 20 trucks, which we anticipate will be delivered in the first quarter of 2023 with off-road platooning automation beginning in mid-2023, and deliveries of fully automated vehicles are targeted to begin in 2025. We expect the autonomous last-mile delivery solutions to be further enhanced through synergies with our planned Dune Express conveyor system to improve the reliability and consistency of proppant delivery, mitigate risks to operations and lessen the probability and impact of traffic congestion and accidents, weather events and other disruptions that frequently affect the delivery of oilfield products within the United States. We also believe our autonomous trucking initiative will amplify the positive impacts of our planned Dune Express system on the environments and communities in which we operate.

Competitive Strengths

We believe the following competitive strengths will allow us to successfully execute our business strategies, achieve our primary business objectives and generate free cash flow, including:

- ***Unique asset base allows for a differentiated business profile*** . Our Kermit and Monahans facilities have a unique combination of key attributes that drive our differentiated business profile, including (1) unmatched scale of reserves and acreage within the two large open-dune deposits at the northern and southern ends of the Winkler Sand Trend, (2) the proximity of the two large open-dune deposits to areas of high unconventional resource

development activity at both the Northern and Southern portions of the Delaware and Midland Basins, (3) the associated high quality of proppant, (4) the associated ease of access to our reserves and resources, (5) the depth of our deposit, which provides a smaller areal footprint per ton produced and (6) plentiful availability of water. We are not aware of any other area in the Permian Basin that is able to replicate this combination of key attributes. When selecting our asset base in 2017, our management team, with its experience in upstream operations in the Permian Basin, thoroughly evaluated multiple sites with extensive geological investigations, and found that, in addition to an attractive proximity to the highest unconventional development areas in the U.S., our acreage offered the presence of a differentiated resource. We believe this resource has one of the thickest deposits in the Permian Basin, providing us with a large, long-lived reserve base. Unlike the overburdened sand reserves that are often in thinner sheets of deposition, our deep reserves extend up to the surface as open dunes, enabling us to mine more sand with less effort, reducing both environmental disturbance and operating cost. We believe that our reserves contain the highest-quality in-basin sand in the region, exhibiting minimal impurities, high crush strength, low turbidity, homogeneity and exceptional sphericity—all characteristics that make our sand optimal for unconventional resource development in the Permian Basin and preferred by our top-tier customer base. Finally, the presence of available water at our facilities, in an area where such resource is geologically intermittent and can be difficult to source without impacting regional aquifers, is a unique attribute that allows us to mine by electric dredge, significantly reducing emissions per ton of proppant mined while reducing operating costs.

- **Strategically located, well designed premium facilities .** The strategic location and logistics capabilities of our Kermit and Monahans facilities have enabled us to reliably and efficiently meet the proppant demand of our customers in both the Delaware and Midland Basins. As of March 31, 2022, our combined facilities have approximately 10.0 million tons of annual production capacity, two electric dredges, six dryers, 70,000 tons of onsite, finished-good storage, 14 dedicated truck loadout lanes, with high speed loadout silos, a comprehensive water recycling system at each plant, which allows us to reuse approximately 95% of the water used in the production process, and 450,000 square feet of damp sand storage. Our facilities are capable of operating year-round and feature advanced safety designs, onsite water supply and recycling, power infrastructure and access to low-cost natural gas through connections to interstate natural gas lines. In addition, because a single-well completion in the Permian Basin can currently require hundreds of truckloads of proppant delivered to the wellsite, we strategically located our Kermit facility to be bisected by two state highways and positioned our Monahans facility adjacent to two highways, one of which is Interstate 20, to facilitate the efficient transportation of our proppant to customers within the Permian Basin, unlike certain regional competitors located in rural areas that lack the capacity to efficiently handle increased truck traffic. The recent shift towards simultaneous multi-well completion designs has increased the requisite truckloads of proppant delivered to multi-well pads to over 1,500 truckloads. Our Kermit facility's location also provides a strategic origination point for the initial Dune Express conveyor system, which will travel across the Texas-New Mexico state line area, one of the highest development intensity sections of the Permian Basin.
- **Unique equity investor capitalization of the Company.** We are differentiated and advantaged by our unique equity investor capitalization. Rather than sourcing private equity capital, Bud Brigham funded the initial investments in us. Subsequently, we conducted a successful "friends and family" equity capital raise, which included many investors that had previously invested in Bud Brigham's prior enterprises. Importantly, approximately 40 of our equity investors are energy entrepreneurs, energy executives and sophisticated energy investors, providing both a validation of the business and facilitating our growth. As a result, we are differentiated in our space with a diverse and sophisticated investor group that is aligned and

actively supportive of our shareholder value creation objectives, and we therefore also operate without the overhang that can often be attributed to large private equity investor positions.

- **Ability to leverage technology in optimizing cost structure and addressing our customer's ESG goals** . Our ability to generate cash flow in various commodity price environments and across business cycles is underpinned by our commitment to the continuous optimization of our operating and capital cost structures. Our move from traditional excavation methods to e-mining reduces the need for on-site personnel, heavy equipment and diesel fuel. Further, this technology also provides us the ability to enhance our customers' ESG initiatives. Numerous employees once located on-site in the Permian Basin now work in a smaller group at our command center in Austin, Texas, monitoring and operating the facilities by video and telecom. This has significantly reduced our cost structure and also has enabled us to attract and retain an exceptionally credentialed workforce as compared to competitors with traditional operations that by nature do not provide such flexibility with respect to the location of personnel deployment. In addition, the reduction of heavy equipment usage significantly reduces our maintenance capital requirements, allowing for greater capital efficiency and improved safety as a result of fewer equipment operators on-site.
- **Pure-play, in-basin proppant and logistics in the Permian Basin** . We are a pure-play, in-basin proppant producer in the Permian Basin with large reserves of high-quality sand that are well-suited for the hydraulic fracturing of oil and natural gas wells in the region. The Permian Basin has been the most active and resilient unconventional development area in the U.S. When the U.S. horizontal rig count peaked in 2014 at 1,372, the Permian Basin accounted for 41% of total rig count. Since that peak, rig activity in the Permian Basin has proven resilient and has grown to represent nearly 50% of active U.S. drilling rigs as of March 31, 2022. Our acreage is located at the northern and southern ends of the Winkler Sand Trend, and we are logistically advantaged to reach wellheads throughout the entirety of the Permian Basin. Our focus on the Permian Basin, as well as our vast and diverse oil and gas operational experience, has enabled us to recognize and aggressively pursue large scale projects like the Dune Express that will be a step-change for the efficiency of proppant delivery in the area. Successful execution of such projects requires operational experience and in-basin expertise to ensure that all aspects of the project have been thoroughly considered and executed. We have also benefited from our extensive track record, as well as the associated relationships developed through our previous activity in the region by our previously created enterprises. As such, among other actions, we have (1) substantially completed the requisite federal and state permitting process, (2) promoted optimal access to lease roads that, in comparison to public roads, provide a significantly shorter mine-to-wellsite path of travel and allow larger last-mile truckloads that promote per-ton efficiency, and (3) chosen appropriate conveyor routing and loadouts to service the most active parts of the Permian Basin with high quality operators.
- **Incentivized board and management team with significant experience in the Permian Basin and a track record of stockholder value creation** . Our executive management team has a combined total of over 75 years of experience in the energy industry. This experience includes two successful IPOs, two successful company sales, multiple asset monetizations and the successful building of other enterprises. See the subsection titled "—Management and Historical Successes" above. Management benefits from extensive experience in the Permian Basin, where our founder was born and raised, and he and other management members have extensive relationships built over a long history of involvement with various businesses in the region across upstream operations, non-operated enterprises, sand mine development, mineral acquisitions and water sourcing. We believe our management team's experience managing upstream operations in the Permian Basin lends a unique perspective that provides us with a network of key potential customers, suppliers, vendors and employees, contributes to our ability to provide a high-quality customer experience and serves as a strong foundation for our

role as a collaborative partner in meeting the advanced completion needs of our customers. Further, our management team has extensive experience in identifying attractive operating areas and evaluating resource potential through a variety of means, including extensive geologic studies; we believe this experience will continue to allow us to expand our operations by selectively pursuing organic development opportunities and innovations in the Permian Basin.

- **Valuable relationships with a diverse group of customers.** The success of our business has been underpinned by our relationships with some of the most respected operators and service companies in the Permian Basin. Our customers range from high-profile, public oil and natural gas and service companies to private, independent enterprises. We also have a diverse customer base, which we believe minimizes counterparty risk. We had 31 customers during the three months ended March 31, 2022, with the top 10 customers accounting for approximately 72% of our revenue for that period. We had 41 customers during the year ended December 31, 2021, with the top 10 customers accounting for approximately 75% of our revenue for that period. Our ability to secure and maintain these robust relationships lends support to our ability to weather economic headwinds. In 2020, we continued to operate throughout the height of the pandemic, grew sales volumes year over year from 2019 to 2020, and increased our market share, as we expanded our customer base by the addition of 28 new customers since January 1, 2020.
- **Proactive approach to the well-being of the environment and our employees.** Our voluntary agreement under the CCAA ensures that the USFWS will not require us to comply with conservation measures or impose any restrictions on our use of resources beyond those which we have already agreed. Our large acreage position also provides us with the flexibility to set aside as much as 17,000 acres of high suitability DSL habitat for conservation protection, which would exempt us from certain enrollment fees otherwise required under the CCAA. The smaller acreage position of many of our Permian Basin competitors may make similar set-asides commercially challenging for them. We believe that our voluntary participation under the CCAA will help to safeguard our assets and operations against adverse effects that could result from non-participation or any future listing of the DSL as an endangered species. We believe potential customers, focused on improving the sustainability profile of their own operations, value our proactive stance towards environmental risk management. As we focus on the well-being of the environment we operate in, we also focus on the well-being of our employees through initiatives such as Wyatt's Lodge. We believe that this differentiated investment in our employees creates a culture of pride and ownership that fosters the positive disruptions and innovations our business successes are built on.

Business Strategies

Our principal business objective is to drive improvements to critical products and services in the Permian Basin through innovation which may reduce environmental impacts and optimize our cost structure, while driving notable value creation for our stockholders and stakeholders alike.

- **Continuously optimize cost structure in order to deliver free cash flow across commodity cycles.** Demand for services used in the development of unconventional resources in the United States varies notably based on the pace and intensity of such development, which is driven in large part by the prevailing commodity price environment. Since the beginning of 2020 through March 31, 2022, per-barrel prices of WTI crude oil exhibited substantial volatility ranging from \$16.55 to \$123.70, and we expect commodity prices to continue to be unpredictable going forward; as such, since our inception, we have continuously strived to optimize our cost structure and we believe we are able to provide our stockholders with a return of capital through cycles. For instance, substantial up-front

investments were made in our Kermit and Monahans facilities and associated equipment in order for their design to maximize uptime and reliability. Our access to a natural water table near the surface of our deposit has allowed us to significantly lower our production costs through dredge mining. Our adoption of e-mining has driven significant cost savings, with mining costs down per ton by approximately 70% in the first quarter of 2021 as compared to the first quarter of 2020. In the future, the modular designs of our facilities will accommodate future expansions at a significantly reduced expense as compared to the conventionally designed facilities of our Permian Basin competitors.

- **Seek out opportunities to positively disrupt the market for products and services critical to unconventional resource development projects.** Innovation is central to our corporate culture, as it has been since the leadership role of certain members of our management team in the Bakken Formation's evolution via Brigham Exploration, and we continuously strive to holistically improve unconventional resource development in the United States, particularly in the Permian Basin. We were a leader in the disruption in the proppant supply chain as early entrants into "in-basin" sand which eliminated the need for in excess of 1,000-mile train hauls from the midwestern United States and in excess of 250-mile truck hauls from central Texas, providing substantial economic and environmental benefits. More recently, we were the first to bring e-mining to the Permian Basin, and we are advancing our initiative to meaningfully electrify sand delivery operations in the Permian Basin through our Dune Express and autonomous trucking initiatives.
- **Use our unmatched scale to amplify innovation and disruptive technology to improve the unconventional resource supply chain.** Our Kermit and Monahans facilities represent a complete reinvention of the more traditional proppant production facility. Most proppant production facilities were historically located far from the point of consumption and therefore had long supply lines. Generally speaking, these facilities frequently experienced downtime on an unpredictable schedule. With the onset of in-basin sand, we recognized the need for our facilities to operate on a just-in-time delivery basis and took to redesigning the traditional facility to ensure that redundancy was built in at critical junctures to mitigate the effects of unplanned equipment downtime. Additional early measures included investments into the automation of our loadout lanes to drive down load times and the automation of many of our operations activities to improve efficiency and safety. More recently, we were the first, and currently the only, Permian Basin miner to electrify the mining of frac sand through the use of electric dredges. Our Dune Express and autonomous trucking initiatives are the next positive major disruptions that we are bringing to the Permian Basin. As a positive disruptive industry technology, the Dune Express replaces much of the trucking haul with electric, conveyor-based transportation, which is likely to provide substantial ESG benefits, including a significant reduction in the emissions generated, relative to the traditional delivery of sand to customer wellsites due to the reduction in miles driven per ton of payload delivered benefitting from the streamlined logistics footprint. Similarly, we expect our automated trucking initiative to significantly reduce vehicular incidents and save lives through the reduced incidence of human error, improved route planning and expanded payloads that will deliver substantially more tons of sand per gallon of diesel fuel consumed. These strategic initiatives and other innovations are clear demonstrations of our commitment to evaluate and pursue strategies and technologies that positively disrupt our industry and continue to establish, maintain and optimize aspects of our business that provide distinct advantages over our competitors.
- **Grow business around anchor contracts with high quality counterparties.** Innovation and the pursuit of additional projects like the Dune Express are central to our strategy, but they are only made possible by our relationships with top-tier operators in the Permian Basin. We have supply contracts in place with a variety of leading oil and natural gas and oilfield services companies, many of which are high-credit quality customers. The quality of our customer base

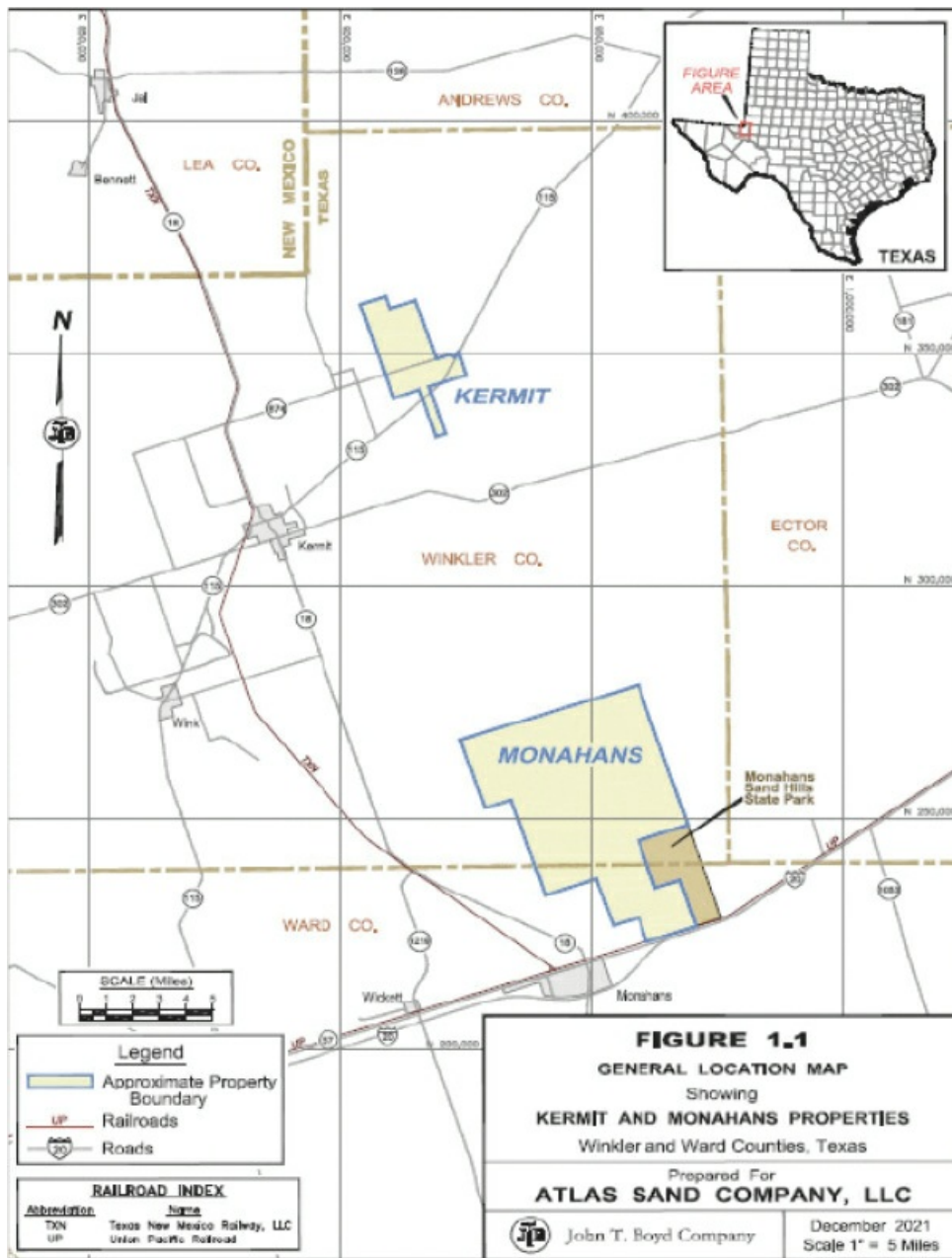
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is reflected in our collections rate over the three months ended March 31, 2022, which exceeded 99.9%. We had similar collection rates for the years ended December 31, 2021, 2020 and 2019, which also exceeded 99.9%. We are currently in active negotiations with upstream producers for contracts to secure capacity on the Dune Express. While many factors influence the selection of proppant providers, we believe that our differentiated environmental profile, resulting from our major electrification projects, paired with our ability to reliably provide large volumes of quality proppant at attractive rates makes us a preferred partner for customers similarly prioritizing enhanced sustainability of operations and cost structure optimization.

- **Drive stockholder value creation by prioritizing our other stakeholders through ESG.** We have recognized, from our founding, that long-term profitability for our stockholders can be achieved only by delivering positive outcomes for our other stakeholders – treating our employees well, executing as good stewards in the communities and the environments we do business in, and operating with the highest governance and diligence standards. Though many of our stakeholders are not owners of our business, they do have a meaningful influence in the success of our business. Therefore, to optimize value creation for our stockholders, we strive to provide attractive outcomes for our stakeholders.
- **Maintain a conservative financial profile in order to provide durable capital returns in a cyclical industry.** The energy services business is historically cyclical, and we believe that a strong balance sheet and substantial liquidity are key, not only for the long-term health of the Company, but also for its ability to continuously return capital to its stockholders through-cycles. On a pro forma basis after giving effect to this offering, we expect to have approximately \$ million of cash on hand, \$ million available under the ABL Credit Facility, and \$ outstanding under our Term Loan Credit Facility. Further, we plan to continue making regular stockholder distributions as we transition into a public company, likely in the form of regular base dividends and potentially a combination of special dividends and share repurchases. Please see the section titled “Dividend Policy.”

Our Facilities

We presently operate our Kermit and Monahans facilities in Winkler and Ward Counties, Texas. The following map shows the location of both facilities:



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Our Kermit and Monahans facilities are designed with safety and efficiency in mind. Our Kermit and Monahans facilities use multiple automated check-in stations to minimize check-in time, and securely track drivers that keep their RFID cards following their first pickup. Each of the three conveyor lines feeding the silos can deposit final product into any of the seven silos, which optimizes storage capacity. Further, through the use of three dryers each with its own conveyer belt to the screener towers, drying and screening never stops, preventing bottlenecks within our facilities. The following is a detailed description of our Kermit and Monahans facilities. Both mines are in the production stage.

The rights and access to the mineral reserves associated with our Monahans operations are secured under the Monahans Lease with Permian Dunes. In December 2017, we also entered into the Kermit Royalty Agreement providing Permian Dunes with an overriding royalty interest in revenues we receive from the sale of proppant mined from the reserves associated with our Kermit facility. Under the terms of the Kermit Royalty Agreement, the agreement would terminate in connection with the consummation of this offering. In contrast, the Monahans Lease, including the royalty payment obligations thereunder, will survive the consummation of this offering or any other Capital Event. See “Certain Relationships and Related Party Transactions—Historical Transactions with Affiliates—Permian Dunes Holding Company, LLC” for more information.

Kermit, Texas

As of March 31, 2022, our Kermit mine had production capacity of 5.0 million tons and is located on approximately 5,825 gross acres of land (of which 5,341 net acres are controlled by us either through lease or fee ownership) in Winkler County, Texas, with onsite processing and truck loading facilities. We commenced construction of our Kermit mine in October of 2017, and commenced operations in June 2018. Geographically, our Kermit facility is located at approximately 31° 58' 6.29"N latitude and 103° 0' 39.46" W longitude and is situated approximately 7 miles northeast of Kermit, Texas, and is accessible via Texas State Highway 18. The Midland International Air and Space Port is located approximately 45 miles southeast of the facility. The facility's primary utilities include three phase power, natural gas from an interstate transmission line and groundwater from onsite wells, all of which are present in sufficient quantities to sustainably support a facility producing in excess of 10 million tons annually. The facility was designed with redundancies to provide enhanced reliability and minimize the potential for bottlenecks throughout the processing and loadout operation.

The Kermit facility has 193.3 million tons of associated proven reserves as of December 31, 2021. The sand deposits generally range from 60 to over 100 feet thick and consist of 40/70-mesh and 100-mesh sand, with an anticipated production mix of approximately 30% 40/70-mesh and approximately 70% 100-mesh. The crush strength of the sand mined at the facility is between 7,000 to 8,000 pounds-per-square-inch (“PSI”) for 40/70-mesh and between 10,000 to 11,000 PSI for 100-mesh. Given the open-dune reserves and natural aquifer, sand is generally extracted from the mine through surface excavation through mining by electric dredge. The facility was constructed with a modular design that facilitates future expansion opportunities. The Kermit facility and has onsite transportation infrastructure capable of loading more than 35 trucks per hour on average.

We lease a portion of the reserves associated with our Kermit facility. See “—Our Lease and Royalty Arrangements” for more information. We have received the material permits required to operate our Kermit facility from the Air Permits Division of the Texas Commission on Environmental Quality (the “TCEQ”), Winkler County, the MSHA and the Texas Department of Transportation (“TxDOT”). See “—Our Permits” for more information.

Monahans, Texas

As of March 31, 2022, our Monahans mine had production capacity of 5.0 million tons and is located on approximately 32,224 gross acres of land in Ward County, Texas, with onsite processing

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and truck loading facilities. We commenced construction of our Monahans mine in February of 2018 and commenced operations in October 2018. Geographically, our Monahans facility is located at approximately 31° 39' 32.53" N latitude and 102° 52' 55.46" W longitude and is situated approximately 3 miles northeast of Monahans, Texas, and is accessible via Texas State Highway 115 and Interstate 20. The Midland International Air and Space Port is located approximately 40 miles east of the facility. The facility's primary utilities include three phase power from natural gas from an interstate transmission line and groundwater from onsite wells, all of which are present in sufficient quantities to sustainably support a facility producing in excess of 10 million tons annually. The facility was designed with redundancies to provide enhanced reliability and minimize the potential for bottlenecks throughout the processing and loadout operation.

The Monahans facility has 118.8 million tons of associated proven reserves as of December 31, 2021. The sand deposits generally range from 60 to over 100 feet thick and consist of 40/70-mesh and 100-mesh sand, with an anticipated production mix of approximately 50% 40/70-mesh and approximately 50% 100-mesh. The crush strength of the sand mined at the facility is 7,000 to 8,000 PSI for 40/70-mesh and between 10,000 to 11,000 PSI for 100-mesh. Given the open-dune reserves and natural aquifer, sand is generally extracted from the mine through surface excavation through mining by electric dredge. The facility was constructed with a modular design that facilitates future expansion opportunities. The Monahans facility has onsite transportation infrastructure capable of loading more than 35 trucks per hour on average.

We lease all of the reserves associated with our Monahans facility. See "—Our Lease and Royalty Arrangements" for more information. We have received the material permits required to operate our Monahans facility from the TCEQ Air Permits Division, Ward County, MSHA and TxDOT. See "—Our Permits" for more information.

Our Products

We serve the oil and gas end markets, and our sand reserves contain deposits of fine grade 40/70-mesh and 100-mesh sizes that API specifies for use in wellsite fracturing operations. We believe that this mix of finer grade sand reserves is in higher demand and meets current industry preferences. Proppant from our Kermit and Monahans facilities is in our onsite silos before transport and delivery by truck to customers' well sites located primarily in the Delaware and Midland Basins.

Our proppant is offered to our customers at the mine or as an integrated mine-to-wellhead solution. By providing access to an integrated logistics infrastructure, we are able to provide our customers with a solution-based approach.

Our Reserves

Information concerning our material mining properties in this prospectus has been prepared in accordance with the requirements of Subpart 1300 of Regulation S-K, which first became applicable to us for the fiscal year ended December 31, 2021. As used in this prospectus, the terms "mineral resource," "mineral reserve," "proven mineral reserve" and "probable mineral reserve" are defined and used in accordance with Subpart 1300 of Regulation S-K.

We categorize our mineral reserves as proven or probable based on the standards set by our independent mining engineers and geologists, John T. Boyd Company. We estimate that we had a total of approximately 368.1 million tons of proven and probable mineral reserves as of December 31, 2021. As of December 31, 2021, we had approximately 193.3 million tons of proven mineral reserves and 4.8 million tons of probable recoverable mineral reserves associated with our Kermit facility and

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approximately 118.8 million tons of proven mineral reserves and 51.1 million tons of probable recoverable mineral reserves associated with our Monahans facility. The quantity and nature of the mineral reserves at each of our properties are estimated by our internal geology department. We use drone surveys and three dimensional models to regularly update our reserve estimates, making necessary adjustments for operations and mine plans at each location during the year. Our internal reserve estimates are provided to John T. Boyd Company for review annually so that third-party approved additions or reductions can be made to our mineral reserves and mineral resource calculations due to ore extraction, additional drilling and delineation, property acquisitions and dispositions or quality adjustments. Before acquiring new mineral reserves, we perform surveying, drill core analysis and other tests to confirm the quantity and quality of the acquired mineral reserves. John T. Boyd Company has reviewed our December 31, 2021 mineral reserves, and we intend to continue retaining third-party engineers to review our mineral reserves on an annual basis.

We lease a portion of the mineral reserves associated with our Kermit facility and all of the mineral reserves associated with our Monahans facilities. As of December 31, 2021, we owned approximately 71% of our mineral reserves and leased approximately 29% of our mineral reserves from third-party landowners at our Kermit facility. To opine as to the economic viability of our mineral reserves, John T. Boyd Company reviewed our operating cost and revenue per ton data at the time of the proven reserve determination. The sand deposits at our facilities do not require crushing or extensive processing to eliminate clays or other contaminants, enabling us to cost-effectively produce high-quality proppant meeting API specifications.

Summary of Reserves

The following tables provide the tonnage and mesh size characteristics of the proven and probable mineral reserves associated with our Kermit and Monahans facilities as of December 31, 2021, based on \$30.00 per ton. Since the commissioning of our wet plants in 2018 through the end of 2021, the actual process yield for both plants is approximately 90%. In general, for every 100 tons of run-of-mine material fed into the plant, 90 tons of saleable product is produced. It should be noted that these actual process yields are slightly different than the overall process yields used to estimate our mineral reserves and our mineral resources. Our mineral reserve estimates utilized the average of all of the core-hole laboratory analysis data for each of our Kermit and Monahans facilities, respectively.

Kermit Facility

	Tons By Classification and Mesh Size (In thousands)								
	Proven			Probable			By Mesh Size		
	40/70	70/140	Total	40/70	70/140	Total	40/70	70/140	Total
Control									
Owned	78,955	61,217	140,172	—	—	—	78,955	61,217	140,172
Leased	28,580	24,433	53,013	2,599	2,232	4,831	31,179	26,665	57,844
Total	107,535	85,650	193,185	2,599	2,232	4,831	110,134	87,882	198,016

Monahans Facility

	Tons By Classification and Mesh Size (In thousands)								
	Proven			Probable			By Mesh Size		
	40/70	70/140	Total	40/70	70/140	Total	40/70	70/140	Total
Control									
Leased	71,886	46,739	118,625	32,041	19,057	51,098	103,927	65,796	169,723

Combined Kermit and Monahans Facilities

The following table provides the tonnage and mesh size characteristics of the proven and probable mineral reserves associated with our Kermit and Monahans operations as of December 31, 2021, based on \$30.00 per ton, presented on a combined basis.

Facility	Tons By Classification and Mesh Size (In thousands)								
	Proven			Probable			Total		
	40/70	70/140	Total	40/70	70/140	Total	40/70	70/140	Total
Kermit	107,535	85,650	193,185	2,599	2,232	4,831	110,134	87,882	198,016
Monahans	71,886	46,739	118,625	32,041	19,057	51,098	103,927	65,796	169,723
Total	179,421	132,389	311,810	34,640	21,289	55,929	214,061	153,678	367,739

Drilling density utilized by us to determine proven versus probable mineral reserves is based upon the relative characteristics of the mineral resource field evaluated, including the consistency and density of the mineral resource within the drilling core sample. The target drill-hole spacing utilized by our independent mining engineers and geologists, John T. Boyd Company, to estimate proven and probable mineral reserves are as follows:

- Proven—less than or equal to 1,500 feet
- Probable—less than or equal to 2,500 feet

Material Assumptions:

Estimates of frac sand reserves for our Kermit and Monahans operations were derived contemporaneously with estimates of frac sand resources. To derive an estimate of saleable product tons (proven and probable frac sand reserves), the following modifying factors were applied to the in-place measured and indicated frac sand resources underlying the respective mine plan areas:

- A 95% mining recovery factor which assumes that 5% of the mineable (in-place) frac sand resource will not be recovered for various reasons. Applying this recovery factor to the in-place resource results in the estimated run-of-mine sand tonnage that will be delivered to the wet process plant.
- Overall processing recoveries, based on exploration sample gradation testing, are 80.9% for the Kermit operation, and 87.6% for the Monahans operation. These recovery factors account for removal of out-sized (i.e. larger than 40-mesh and smaller than 140-mesh) sand and losses in the wet processing plant, and minor dry processing plant inefficiencies.

Further information can be found in Section 6.3.1 of our technical report summary prepared by John T. Boyd Company, which is filed as Exhibit 99.1 to the registration statement of which this prospectus forms a part.

Our Resources

A “mineral resource” is defined by Subpart 1300 of Regulation S-K as a concentration or occurrence of material of economic interest in or on the Earth’s crust in such form, grade or quality, and quantity that there are reasonable prospects for economic extraction. Further, mineral resource is a reasonable estimate of mineralization, taking into account relevant factors such as cut-off grade, likely mining dimensions, location or continuity, that, with the assumed and justifiable technical and economic conditions, is likely to, in whole or in part, become economically extractable. Subpart 1300 of Regulation S-K divides resources between “measured mineral resources” and “indicated mineral resources” and “inferred mineral resources,” which are defined as follows:

- *Measured mineral resources.* Resources for which quantity and grade or quality are estimated on the basis of conclusive geological evidence and sampling. The level of geological certainty associated with a measured mineral resource is sufficient to allow a qualified person to apply modifying factors, as defined in this section, in sufficient detail to support detailed mine planning and final evaluation of the economic viability of the deposit. Because a measured mineral resource has a higher level of confidence than the level of confidence of either an indicated mineral resource or an inferred mineral resource, a measured mineral resource may be converted to a proven mineral reserve or to a probable mineral reserve.
- *Indicated mineral resources.* Resources for which quantity and grade or quality are estimated on the basis of adequate geological evidence and sampling. The level of geological certainty associated with an indicated mineral resource is sufficient to allow a qualified person to apply modifying factors in sufficient detail to support mine planning and evaluation of the economic viability of the deposit. Because an indicated mineral resource has a lower level of confidence than the level of confidence of a measured mineral resource, an indicated mineral resource may only be converted to a probable mineral reserve.
- *Inferred mineral resources.* Resources for which quantity and grade or quality are estimated on the basis of limited geological evidence and sampling. The level of geological uncertainty associated with an inferred mineral resource is too high to apply relevant technical and economic factors likely to influence the prospects of economic extraction in a manner useful for evaluation of economic viability. Because an inferred mineral resource has the lowest level of geological confidence of all mineral resources, which prevents the application of the modifying factors in a manner useful for evaluation of economic viability, an inferred mineral resource may not be considered when assessing the economic viability of a mining project, and may not be converted to a mineral reserve.

The target drill-hole spacing utilized by our independent mining engineers and geologists, John T. Boyd Company, to estimate measured, indicated and inferred resources are as follows:

- Measured – less than or equal to 1,500 feet
- Indicated – greater than 1,500 feet, but less than or equal to 2,500 feet
- Inferred – greater than 2,500 feet, but less than or equal to 5,000 feet

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The following tables set forth the mineral resource estimates, exclusive of mineral reserves, associated with our Kermit and Monahans facilities as of December 31, 2021, based on \$30.00 per ton. Since the commissioning of our wet plants in 2018 through the end of 2021, the actual process yield for both plants is approximately 90%. In general, for every 100 tons of run-of-mine ("ROM") material fed into the plant, 90 tons of saleable product is produced. It should be noted that these actual process yields are slightly different than the overall process yields used to estimate our mineral reserves and our mineral resources. Our mineral reserve estimates utilized the average of all of the core-hole laboratory analysis data for each of our Kermit and Monahans facilities, respectively.

Kermit Facility

Resource Category	Acres	Average Sand Thickness (ft)	Estimated In-Place Frac Sand Tons (in thousands)			Total
			Owned	Leased	Adverse	
Measured	65		—	9,700	—	9,700
Indicated	603		—	95,390	—	95,390
Measured + Indicated	668		—	105,090	—	105,090
Inferred	1,719		38,904	197,750	56,636	293,290
Total	2,387	79	38,904	302,840	56,636	398,380

Monahans Facility

Resource Category	Acres	Average Sand Thickness (ft)	Estimated In-Place Frac Sand Tons (in thousands)			Total
			Owned	Leased	Adverse	
Measured	454		—	64,144	—	64,144
Indicated	809		—	108,726	—	108,726
Measured + Indicated	1,263		—	172,870	—	172,870
Inferred	8,906		—	1,093,869	—	1,093,869
Total	10,169	60	—	1,266,739	—	1,266,739

As of December 31, 2021, our mineral resources are estimated at 1.665 billion tons (398 million tons at the Kermit facility and 1.267 billion tons at the Monahans facility). As of December 31, 2021, we leased a portion of the resources associated with our Kermit facility and all of the resources associated with our Monahans facility.

Material Assumptions:

Estimates of in-place frac sand resources for the Kermit and Monahans operations were prepared by performing the following tasks:

- Available drilling logs and laboratory testing results were compiled and reviewed to check for accuracy and to support development of each operation's geologic model. The geologic databases utilized for modeling and estimation consist of results from 61 drill holes completed on the Kermit property, and 80 drill holes completed on the Monahans property. The geologic data was imported into Carlson Software, a geologic modeling and mine planning software suite that is widely used and accepted by the mining industry.

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- A geologic model of each deposit was created in Carlson Software using industry-standard grid modeling methods well-suited for simple stratigraphic deposits. Each geologic model delineates the top and bottom of the mineable sand horizon and the distribution of the product size fractions across the deposits. The top and bottom of the mineable frac sand interval were established as follows:
 - As there is minimal overburden material across the subject properties, the top of the mineable sand interval was defined as the current ground surface, as provided by a combination of originally flown aerial topographic surveys and recently surveyed active mining pits.
 - The bottom of the mineable sand interval on both properties was determined by Westward geologists and geological technicians present during the various exploration and sampling campaigns. Westward defined the bottom of the mineable sand interval as the depth at which a drilled interval no longer contained sand as either the first or second most abundant material present.
- After reviewing the continuity and variability of the deposit, suitable resource classification criteria were developed and applied.
- Our Independent Mining Engineers then reviewed the proposed initial mining regions identified by Atlas Inc. management. Estimation of the in-place frac sand resources for the Kermit and Monahans properties assumes mining operations using a combination of standard surface excavation equipment for the near-surface initial operations and dredging equipment once initial excavation had reached appropriate depths. This sequence of operating is widely utilized for mining of similar deposit types. As such, the estimates were subject to the following setbacks and slope requirements:
 - 50 ft inside of property lines.
 - 100 ft from pipelines.
 - 50 ft around the wet and dry process plant areas and main access road/right of way.
 - An overall pit wall slope of 3:1 (approximately 19 degrees).
- In-place volumes for each property were estimated from the geologic model within Carlson Software. A dry, in-place, bulk density of 100 pounds per cubic foot was used to calculate the in-place tonnage of frac sand.

Further information can be found in Section 6.2.1 of our technical report summary prepared by John T. Boyd Company, which is filed as Exhibit 99.1 to the registration statement of which this prospectus forms a part.

Our Lease and Royalty Arrangements

We lease a portion of the mineral reserves associated with our Kermit operations and all of the mineral reserves associated with our Monahans operations. The rights and access to the mineral reserves associated with our Monahans operations are secured under a lease agreement (the "Monahans Lease") with Permian Dunes Holding Company, LLC ("Permian Dunes"), a related party and our largest unitholder. In December 2017, we also entered into an agreement (the "Kermit Royalty Agreement") providing Permian Dunes with an overriding royalty interest in revenues we receive from the sale of proppant mined from the mineral reserves associated with our Kermit facility.

Under the Monahans Lease and the Kermit Royalty Agreement, we make monthly royalty payments to Permian Dunes based on a percentage of our of gross monthly sales of proppant. The

lease also includes an annual minimum royalty payment in any year of the term following the occurrence of certain specified transactions (a "Capital Event"). Our royalty payments are included in our cost of sales.

Under the terms of the Kermit Royalty Agreement, the agreement would terminate in connection with the consummation of this offering. In contrast, the Monahans Lease, including the royalty payment obligations thereunder, will survive the consummation of this offering or any other Capital Event.

Our Transportation Logistics and Infrastructure

We have established a last-mile logistics network that we believe positions us to be highly responsive to our customers' needs. We believe providing a reliable mine-to-wellhead solution is important because it is the only way to assure customers certainty of supply and efficient delivered cost. Our focus on locating our Kermit and Monahans facilities within close proximity to prolific well activity enables us to deliver proppant directly to our customers' wellheads using traditional pneumatic assets, portable silos, boxes or portable conveyance systems and significantly reduces handling costs and delivery lead times. The integrated nature of our logistics operations allows us to better serve oil and natural gas companies seeking more control over their well completion schedules and overall well performance by directly sourcing sand and limiting operational delays and wellhead costs.

Our Permits

We have obtained numerous federal, state and local permits required for operations at our Kermit and Monahans facilities. The Kermit and Monahans operations are predominantly regulated by the TCEQ with respect to environmental compliance. The predominant permitting requirement is an active NSR permit for air pollution control. Both of our operations have a current NSR permit which is renewable next in 2028. Other permits held by our operations include Stormwater, Above Ground Storage Tank, Aggregate Production Operation, and a septic permit. A spill prevention plan is also active at both operations.

While resources invested in securing permits are significant, this cost has not had a material adverse effect on our results of operations or financial condition. We cannot assure that existing environmental laws and regulations will not be reinterpreted or revised or that new environmental laws and regulations will not be adopted or become applicable to us. Revised or additional environmental requirements that result in increased compliance costs or additional operating restrictions could have a material adverse effect on our business.

Our Customers and Contracts

Customers

Our core customers include some of the most active and well capitalized oil and natural gas and oilfield services companies in the Permian Basin. We have signed several supply agreements, which mitigates our risk of non-performance by such customers. We provide our products and services to other customers on the spot market.

Contracts

We sell a portion of our produced volumes under supply agreements. As of March 31, 2022, on a volume basis, approximately % of our production capacity for fiscal year 2022 was sold or is contracted under supply agreements during the three months ended March 31, 2022. Certain of these agreements require the customer to purchase a specified percentage of its proppant requirements from us. Other agreements require the customer to purchase a minimum volume of proppant from us.

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Certain of the Company's contracts contain shortfall provisions that calculate agreed upon fees that are billed when the customer does not meet the minimum purchases over a period of time defined in each contract.

Our proppant is generally sold F.O.B. at our facilities, with title and risk of loss transferring to the customer when we load the proppant onto a truck for delivery to the customer. However, we frequently manage the distribution logistics for our customers and pass on the transportation and related logistics costs to them. Generally, our supply agreements contain customary termination provisions for matters such as bankruptcy-related events and uncured breaches of the applicable agreement.

We also enter into spot contract arrangements whereby we can elect to sell proppant to customers to the extent we have capacity available on our systems at the time of request. We refer to these volumes as spot volumes.

Competition

The market in which we operate is highly competitive. We compete with both public and private regional, local in-basin proppant providers, such as Covia Corp., High Roller Sand, Black Mountain Sand, Freedom Proppants, Hi-Crush Inc., U.S. Silica Inc., Signal Peak Silica, Alpine Silica, Badger Mining Corporation, Vista Proppants and Logistics and Capital Sand Company, among others. Competition in the proppant production industry is based on the geographic location of facilities, business reputation, operating reliability, available capacity and pricing arrangements for services rendered, among other factors. As we continue to grow our business and provide our services to new customers, we expect to continue to face increasing levels of competition. Our last-mile logistics business also competes with traditional providers of delivery services by truck and railcar.

Although some of our competitors may have a broader geographic scope and greater financial and other resources than we may have, we believe that we are competitively well positioned due to our reliability of supply, customer relationships, plant design, premium geology, ESG leadership and the proximity of our facilities to customers in the Permian Basin.

Cyclical Nature of Industry

We operate in a highly cyclical industry. The key factor driving demand for our services is the level of drilling activity by oil and natural gas companies, which in turn depends largely on current and anticipated future crude oil and natural gas prices and production depletion rates. Global supply and demand for oil and the domestic supply and demand for natural gas are critical in assessing industry outlook. Demand for oil and natural gas is cyclical and subject to large, rapid fluctuations. Producers tend to increase capital expenditures in response to increases in oil and natural gas prices, which generally results in greater revenues and profits for oilfield service companies such as ours. Increased capital expenditures also ultimately lead to greater production, which historically has resulted in increased supplies and reduced prices which in turn tend to reduce demand for oilfield services. For these reasons, the results of our operations may fluctuate from quarter to quarter and from year to year, and these fluctuations may distort comparisons of results across periods.

Seasonality

In general, seasonal factors do not have a significant and direct effect on our business. However, extreme weather conditions during parts of the year could adversely impact the well-completion activities of our customers, who are oil and natural gas operators, thereby reducing the amount of frac sand sold. Our most notable decline in the demand of our product and services occurred in February 2021 as a result of the impact of Winter Storm Uri.

Insurance

We believe that our insurance coverage is customary for the industry in which we operate and adequate for our business. As is customary in the proppant industry, we review our safety equipment and procedures and carry insurance against most, but not all, risks of our business. Losses and liabilities not covered by insurance would increase our costs. To address the hazards inherent in our business, we maintain insurance coverage that includes physical damage coverage, third-party general liability insurance, employer's liability, environmental and pollution and other coverage, although coverage for environmental and pollution-related losses is subject to significant limitations.

Environmental and Occupational Health and Safety Regulations

We are subject to stringent and complex federal, state and local laws and regulations governing the discharge of materials into the environment or otherwise relating to protection of worker health, safety and the environment and natural resources (including threatened and endangered species). Compliance with these laws and regulations may expose us to significant costs and liabilities and cause us to incur significant capital expenditures in our operations. Any failure to comply with these laws and regulations may result in the assessment of administrative, civil and criminal penalties, imposition of remedial obligations and the issuance of injunctions delaying or prohibiting operations. Private parties may also have the right to pursue legal actions to enforce compliance as well as to seek damages for non-compliance with environmental laws and regulations or for personal injury or property damage. In addition, the trend in environmental regulation has been to place more restrictions on activities that may affect the environment, and thus, any changes in, or more stringent enforcement of, these laws and regulations that result in more stringent and costly pollution control equipment, the occurrence of delays in the permitting or performance of projects, or waste handling, storage, transport, disposal or remediation requirements could have an adverse effect on our operations and financial position.

We do not believe that compliance by us and our customers with federal, state or local environmental laws and regulations will have an adverse effect on our business, financial position or results of operations or cash flows. We cannot assure you, however, that future events, such as changes in existing laws or enforcement policies, the enactment or promulgation of new laws or regulations or the development or discovery of new facts or conditions adverse to our operations will not cause us to incur significant costs. The following is a discussion of material environmental and worker health and safety laws, as amended from time to time, that relate to our operations or those of our customers that could have an adverse effect on our business.

Worker Health and Safety

We are subject to the requirements of the OSHA, and comparable state statutes that regulate the protection of the health and safety of workers. In addition, the OSHA hazard communication standard requires that information be maintained about hazardous materials used or produced in operations and that this information be provided to employees, state and local government authorities and the public. These laws and regulations are subject to frequent changes and any failure to comply with these laws could lead to the assertion of third-party claims against us, civil or criminal fines and changes in the way we operate our facilities, which one or more events could have an adverse effect on our financial position. Historically, our environmental compliance costs have not had an adverse effect on our results of operations.

Air Emissions

Our operations and the operations of our customers are subject to the CAA and related state and local laws, which restrict the emission of air pollutants and impose permitting, monitoring and reporting

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requirements on various sources. These regulatory programs may require preconstruction permitting, best available control technology analysis, the installation of emissions abatement equipment, modification of operational practices and obtaining permits or similar authorizations for our operations. Obtaining air emissions permits has the potential to delay the development or continued performance of our operations. Over the next several years, we may be required to incur certain capital expenditures for air pollution control equipment or to address air emissions-related issues as we expand our facilities or develop new ones. Changing and increasingly stricter requirements, future non-compliance or failure to maintain necessary permits or other authorizations could require us to incur substantial costs or suspend or terminate our operations. We could be subject to administrative, civil and criminal penalties as well as injunctive relief for noncompliance with air permits or other requirements of the CAA and comparable state laws and regulations.

Climate Change

In the United States, no comprehensive climate change legislation has been implemented at the federal level. However, following the U.S. Supreme Court finding that GHG emissions constitute a pollutant under the CAA, the EPA has adopted regulations that, among other things, establish construction and operating permit reviews for emissions from certain large stationary sources, require the monitoring and annual reporting of GHG emissions from certain petroleum and natural gas system sources in the United States, and together with the DOT, implement GHG emissions limits on vehicles manufactured for operation in the United States.

Additionally, various states and groups of states have adopted or are considering adopting legislation, regulations or other regulatory initiatives that are focused on such areas as GHG cap and trade programs, carbon taxes, reporting and tracking programs, and restriction of emissions. Internationally, the United Nations-sponsored "Paris Agreement" requires member states to individually determine and submit non-binding emissions reduction targets every five years after 2020. President Biden has recommitted the United States to the Paris Agreement and, in April 2021, announced a goal of reducing the United States' emissions by 50-52% below 2005 levels by 2030. In November 2021, the international community gathered again in Glasgow at COP26, during which multiple announcements were made, including a call for parties to eliminate certain fossil fuel subsidies and pursue further action on non-CO2 GHGs. Relatedly, the United States and European Union jointly announced the launch of the "Global Methane Pledge," which aims to cut global methane pollution at least 30% by 2030 relative to 2020 levels, including "all feasible reductions" in the energy sector. The impacts of these orders, pledges, agreements and any legislation or regulation promulgated to fulfill the United States' commitments under the Paris Agreement, COP26, or other international conventions cannot be predicted at this time.

Governmental, scientific, and public concern over the threat of climate change arising from GHG emissions has resulted in increasing political risks in the United States, including climate change related pledges made by certain candidates elected to public office. President Biden has issued several executive orders focused on addressing climate change, including items that may impact our costs to produce, or demand for, oil and natural gas. Additionally, in November 2021, the Biden Administration released "The Long-Term Strategy of the United States: Pathways to Net-Zero Greenhouse Gas Emissions by 2050," which establishes a roadmap to net zero emissions in the United States by 2050 through, among other things, improving energy efficiency; decarbonizing energy sources via electricity, hydrogen, and sustainable biofuels; and reducing non-CO2 GHG emissions, such as methane and nitrous oxide. The Biden Administration is also considering revisions to the leasing and permitting programs for oil and natural gas development on federal lands. For more information, see our Risk Factor titled "Any restrictions on oil and natural gas development on federal lands has the potential to adversely impact our operations and the operations of our customers." Other actions that could be pursued may include the imposition of more restrictive requirements for the

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establishment of pipeline infrastructure or the permitting of LNG export facilities, as well as more strict GHG emission limitations for oil and natural gas facilities. Litigation risks are also increasing, as a number of entities have sought to bring suit against oil and natural gas companies in state or federal court, alleging, among other things, that such companies created public nuisances by producing fuels that contributed to climate change. Suits have also been brought against such companies under stockholder and consumer protection laws, alleging that companies have been aware of the adverse effects of climate change but failed to adequately disclose those impacts. To the extent these risks materially impact our customers, demand for our frac sand may be reduced.

There are also increasing financial risks for fossil fuel producers as stockholders currently invested in fossil fuel energy companies may elect in the future to shift some or all of their investments into other sectors. Institutional lenders who provide financing to fossil fuel energy companies also have become more attentive to sustainable lending practices and some of them may elect not to provide funding for fossil fuel energy companies. For example, at COP26, GFANZ announced that commitments from over 450 firms across 45 countries had resulted in over \$130 trillion in capital committed to net zero goals. The various sub-alliances of GFANZ generally require participants to set short-term, sector-specific targets to transition their financing, investing, and/or underwriting activities to net zero emissions by 2050. There is also a risk that financial institutions will be required to adopt policies that have the effect of reducing the funding provided to the fossil fuel sector. Recently, President Biden signed an executive order calling for the development of a “climate finance plan” and, separately, the Federal Reserve has joined the Network for Greening the Financial System, a consortium of financial regulators focused on addressing climate-related risks in the financial sector. In November 2021, the Federal Reserve issued a statement in support of the efforts of the NGFS to identify key issues and potential solutions for the climate-related challenges most relevant to central banks and supervisory authorities. Limitation of investments in and financings for fossil fuel energy companies could result in the restriction, delay or cancellation of our customers’ drilling programs or development and production activities, as well as our own ability to access capital for our projects.

Additionally, in March 2022, the SEC proposed new rules relating to the disclosure of a range of climate-related risks. We are currently assessing this rule but at this time we cannot predict the ultimate impact of the rule on our business or those of our customers. The SEC is expected to finalize the rule in October 2022. To the extent this rule is finalized as proposed, we or our customers could incur increased costs related to the assessment and disclosure of climate-related risks and certain emissions metrics. In addition, enhanced climate disclosure requirements could accelerate the trend of certain stakeholders and lenders restricting or seeking more stringent conditions with respect to their investments in certain carbon intensive sectors.

The adoption and implementation of new or more stringent international, federal or state legislation, regulations or other regulatory initiatives that impose more stringent standards for GHG emissions from the oil and natural gas sector or otherwise restrict the areas in which this sector may produce oil and natural gas or generate GHG emissions could result in increased costs of compliance or costs of consuming, and thereby reduce demand for, oil and natural gas. Additionally, political, litigation and financial risks may result in us or our customers’ restricting or cancelling production activities, incurring liability for infrastructure damages as a result of climatic changes, or having an impaired ability to continue to operate in an economic manner. One or more of these developments could have an adverse effect on our and our customers’ business, financial condition and results of operations.

As a final note, climate change could have an effect on the severity of weather (including hurricanes, droughts and floods), sea levels, the arability of farmland, water availability and quality, and meteorological patterns. If such effects were to occur, our operations and our customers’ development and production operations have the potential to be adversely affected. Potential adverse effects could include damages to our facilities from powerful winds or flooding in low lying areas, disruption of our and our customers’ operations either because of climate related damages to our facilities or in our

costs of operation potentially arising from such climatic effects, less efficient or non-routine operating practices necessitated by climate effects or increased costs for insurance coverage in the aftermath of such effects.

Water Discharges

The CWA and analogous state laws impose restrictions and strict controls with respect to the discharge of pollutants, including spills and leaks of oil and other substances, into waters of the United States. The discharge of pollutants into regulated waters, including jurisdictional wetlands, is prohibited, except in accordance with the terms of a permit issued by the EPA or an analogous state agency. The CWA also prohibits the discharge of dredge and fill material in regulated waters, including wetlands, unless authorized by a permit issued by the U.S. Army Corps of Engineers (the "Corps"). Federal and state regulatory agencies can impose administrative, civil and criminal penalties, as well as require remedial or mitigation measures, for non-compliance with discharge permits or other requirements of the CWA and analogous state laws and regulations. In the event of an unauthorized discharge of wastes, we may be liable for penalties and costs.

The scope of regulated waters under the CWA has been subject to substantial controversy. In June 2015, the EPA and the Corps published a final rule attempting to clarify the federal jurisdictional reach over waters of the United States ("WOTUS"); however, following the change in U.S. presidential administrations, there have been several attempts to modify or eliminate this rule. For example, in January 2020, the EPA and the Corps finalized the Navigable Waters Protection Rule, which narrows the definition of "waters of the United States" relative to the WOTUS rule. However, legal challenges to both rules remain pending. In addition, the Biden administration has announced plans to develop its own definition of such waters, and the EPA and the Corps issued a proposed rule in November 2021 to revoke the Navigable Waters Protection Rule in favor of a pre-2015 definition until a new definition is proposed. Therefore, the scope of jurisdiction under the CWA is uncertain at this time, and any increase in scope could result in increased costs or delays with respect to obtaining permits for such activities as dredge and fill operations in wetland areas. The process for obtaining permits has the potential to delay our operations. Spill prevention, control and countermeasure requirements of federal laws require appropriate containment berms and similar structures to help prevent the contamination of navigable waters by a petroleum hydrocarbon tank spill, rupture or leak. In addition, the CWA and analogous state laws require individual permits or coverage under general permits for discharges of storm water runoff from certain types of facilities. Federal and state regulatory agencies can impose administrative, civil and criminal penalties as well as other enforcement mechanisms for non-compliance with discharge permits or other requirements of the CWA and analogous state laws and regulations. The CWA and analogous state laws provide for administrative, civil and criminal penalties for unauthorized discharges and, impose rigorous requirements for spill prevention and response planning, as well as substantial potential liability for the costs of removal, remediation, and damages in connection with any unauthorized discharges.

Hydraulic Fracturing

We supply proppant to the oil and natural gas industry. Hydraulic fracturing is an important common practice that is used to stimulate production of oil and natural gas from low permeability hydrocarbon bearing subsurface rock formations. The hydraulic fracturing process involves the injection of water, proppant and chemicals under pressure into the formation to fracture the surrounding rock, increase permeability and stimulate production. Although we do not directly engage in hydraulic fracturing activities, our customers purchase our proppant for use in their hydraulic fracturing activities. Hydraulic fracturing is typically regulated by state oil and natural gas commissions and similar agencies; however, the EPA has asserted jurisdiction over hydraulic fracturing activities in some circumstances. The EPA has also promulgated air emission performance standards for

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production, processing, and transmission equipment in the oil and natural gas sector. The EPA also released a final report in December 2016 assessing the potential adverse impact of hydraulic fracturing to water resources, concluding that activities relating to water consumption, use and disposal associated with hydraulic fracturing may impact drinking water resources under certain circumstances. Some states have adopted, and other states are considering adopting, regulations that could impose new or more stringent permitting, disclosure or well construction requirements on hydraulic fracturing operations. State and federal regulatory agencies have also recently focused on a possible connection between the operation of injection wells used for oil and natural gas waste disposal and seismic activity. Similar concerns have been raised that hydraulic fracturing may also contribute to seismic activity. Aside from state laws, local land use restrictions may restrict drilling in general or hydraulic fracturing in particular. Municipalities may adopt local ordinances attempting to prohibit hydraulic fracturing altogether or, at a minimum, allow such fracturing processes within their jurisdictions to proceed but regulating the time, place and manner of those processes. At the same time, certain environmental groups have suggested that additional laws may be needed to more closely and uniformly limit or otherwise regulate the hydraulic fracturing process, and legislation has been proposed by some members of Congress to provide for such regulation.

The adoption of new laws or regulations at the federal or state levels imposing reporting obligations on, or otherwise limiting or delaying, the hydraulic fracturing process could make it more difficult to complete natural gas wells, increase our customers' costs of compliance and doing business and otherwise adversely affect the hydraulic fracturing services they perform, which could negatively impact demand for our frac sand. In addition, heightened political, regulatory and public scrutiny of hydraulic fracturing practices could expose us or our customers to increased legal and regulatory proceedings, which could be time-consuming, costly or result in substantial legal liability or significant reputational harm. We could be directly affected by adverse litigation involving us, or indirectly affected if the cost of compliance limits the ability of our customers to operate. Such costs and scrutiny could directly or indirectly, through reduced demand for our frac sand, have an adverse effect on our business, financial condition and results of operations.

Non-Hazardous and Hazardous Wastes

The Resource Conservation and Recovery Act ("RCRA") and comparable state laws control the management and disposal of hazardous and non-hazardous waste. These laws and regulations govern the generation, storage, treatment, transfer and disposal of wastes that we generate. In the course of our operations, we generate waste that are regulated as non-hazardous wastes and hazardous wastes, obligating us to comply with applicable standards relating to the management and disposal of such wastes. In addition, drilling fluids, produced waters and most of the other wastes associated with the exploration, development and production of oil or natural gas, if properly handled, are currently exempt from regulation as hazardous waste under RCRA and, instead, are regulated under RCRA's less stringent non-hazardous waste provisions, state laws or other federal laws. However, it is possible that certain oil and natural gas drilling and production wastes now classified as non-hazardous could be classified as hazardous wastes in the future. A loss of the RCRA exclusion for drilling fluids, produced waters and related wastes could result in an increase in our customers' costs to manage and dispose of generated wastes and a corresponding decrease in their drilling operations, which developments could have an adverse effect on our business.

Site Remediation

CERCLA and comparable state laws impose strict, joint and several liability on certain classes of persons that contributed to the release of a hazardous substance into the environment without regard to fault or the legality of the original conduct. These persons include the owner and operator of a disposal site where a hazardous substance release occurred and any company that transported,

disposed of or arranged for the transport or disposal of hazardous substances released at the site. Under CERCLA, such persons may be liable for the costs of remediating the hazardous substances that have been released into the environment, for damages to natural resources and for the costs of certain health studies. In addition, where contamination may be present, it is not uncommon for the neighboring landowners and other third parties to file claims for personal injury, property damage and recovery of response costs. We have not received notification that we may be potentially responsible for cleanup costs under CERCLA at any site.

Endangered Species

The ESA restricts activities that may affect endangered or threatened species or their habitats. Similar protections are offered to migratory birds under the MBTA. New or proposed listings of threatened or endangered species has the potential to adversely impact our future operations. For example, the DSL, which is found only in the active and semi-stable shinnery oak dunes of southeastern New Mexico and adjacent portions of Texas (including areas where our proppant production facilities are located), was a candidate species for listing under the ESA by the USFWS for many years. In 2010, the USFWS proposed listing the DSL as an endangered species under the ESA. In response, the Texas Comptroller's office created the Texas Conservation Plan in 2012 to minimize disturbances to the DSL's habitat. In June 2012, the USFWS declined to list the species as endangered under the ESA in part due to oil and natural gas operators and private landowners in the Permian Basin entering into CCAs, whereby parties voluntarily agree to implement mitigation measures, such as habitat avoidance or time and manner operating restrictions so as not to adversely impact the DSL habitat. Recently, however, as a result of increased frac sand mining by parties who are not currently parties to CCAs, the Texas Comptroller's Office, USFWS, and environmental groups have voiced concerns about the potential destruction of DSL habitat and harm to the species. This ultimately led to renewed calls to USFWS to list the DSL under the ESA and a twelve-month review is currently pending to determine whether the DSL should be listed. On November 17, 2021, one environmental organization delivered a Sixty-day Notice of Intent to Sue to the DOI and the USFWS for failing to timely list the DSL as endangered. Our operations and the operations of our customers could be further limited, delayed or, in some circumstances, prohibited altogether, as a result of the imposition of additional restrictions designed to protect the DSL imposed at the time of any listing, and we and our customers could be required to comply with expensive mitigation measures intended to protect the DSL and its habitat. However, in January 2021, USFWS approved a CCAA for the DSL. We were a contributor to and supporter of the CCAA since its inception and have since been accepted into the program. Our participation in the CCAA and our other voluntary conservation measures for the benefit of the DSL reduces the risk of disruptions to our business and operations in the event the DSL is listed. To the extent species are listed under the ESA or similar state laws, or are protected under the MBTA, or previously unprotected species are designated as threatened or endangered in areas where we or our customers operate, this could cause us or our customers to incur increased costs arising from species protection measures and could result in delays or limitations in our or our customers' performance of operations, which could adversely affect or reduce demand for our proppant solutions.

Mining and Workplace Safety

Our proppant production operations will be subject to mining safety regulation. MSHA is the primary regulatory organization governing frac sand mining and processing. Accordingly, MSHA regulates quarries, surface mines, underground mines and the industrial mineral processing facilities associated with and located at quarries and mines. The mission of MSHA is to administer the provisions of the Federal Mine Safety and Health Act of 1977 and to enforce compliance with mandatory miner safety and health standards. As part of MSHA's oversight, representatives perform at least two unannounced inspections annually for each above-ground facility. Failure to comply with MSHA's regulations could result in the imposition of civil or criminal penalties and fines.

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In addition, our operations are subject to a number of federal and state laws and regulations, including the OSHA and comparable state statutes, whose purpose is to protect the health and safety of workers. Also, OSHA hazard communication standard, the EPA community right-to-know regulations under Title III of the federal Superfund Amendment and Reauthorization Act and comparable state statutes require that information be maintained concerning hazardous materials used or produced in operations and that this information be provided to employees, state and local government authorities and citizens. Violations of OSHA can result in OSHA civil and criminal enforcement. Moreover, the inhalation of respirable crystalline silica is associated with the lung disease silicosis. There is recent evidence of an association between crystalline silica exposure or silicosis and lung cancer and a possible association with other diseases, including immune system disorders such as scleroderma. These health risks have been, and may continue to be, a significant issue confronting the silica industry. In response to these potential concerns, OSHA promulgated a new rule seeking to lower work exposure to crystalline silica. The rule became effective for general industry in 2018. In June 2022, MSHA launched a new enforcement initiative to better protect U.S. miners from health hazards resulting from repeated overexposure to respirable crystalline silica. For more information, see our Risk Factor titled "Silica-related health issues and legislation, including compliance with existing or future regulations relating to respirable crystalline silica, or litigation could have an adverse effect on our business, reputation or results of operations.

In addition, concerns over silicosis and other potential adverse health effects, as well as concerns regarding potential liability from the use of silica, may have the effect of discouraging our customers' use of our silica products and discouraging our insurers from risk. The actual or perceived health risks of mining, processing and handling silica could adversely affect silica producers, including us, through reduced use of silica products, the threat of product liability or employee lawsuits, increased scrutiny by federal, state and local regulatory authorities of us and our customers or reduced financing sources available to the silica industry.

Environmental Reviews

If permits or other authorizations from the federal government are required, our future operations may be subject to broad environmental review under the National Environmental Policy Act, as amended ("NEPA"). NEPA requires federal agencies to evaluate the environmental impact of all "major federal actions" significantly affecting the quality of the human environment. The granting of a federal permit for a major development project, such as a proppant production operations, may be considered a "major federal action" that requires review under NEPA. As part of this evaluation, the federal agency considers a broad array of environmental impacts, including, among other things, impacts on air quality, water quality, wildlife (including threatened and endangered species), historic and archeological resources, geology, socioeconomics and aesthetics. NEPA also requires the consideration of alternatives to the project. The NEPA review process, especially the preparation of a full environmental impact statement, can be time consuming and expensive. The purpose of the NEPA review process is to inform federal agencies' decision-making on whether federal approval should be granted for a project and to provide the public with an opportunity to comment on the environmental impacts of a proposed project. Though NEPA requires only that an environmental evaluation be conducted and does not mandate a particular result, a federal agency could decide to deny a permit or impose certain conditions on its approval, based on its environmental review under NEPA, or a third party could challenge the adequacy of a NEPA review and thereby delay the issuance of a federal permit or approval, which could have an adverse effect on our business.

Motor Carrier Operations

Among the services we provide, we operate as a motor carrier and therefore are subject to regulation by DOT and various state agencies. These regulatory authorities exercise broad powers,

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governing activities such as the authorization to engage in motor carrier operations; regulatory safety; hazardous materials labeling, placarding and marking; financial reporting; and certain mergers, consolidations and acquisitions. There are additional regulations specifically relating to the trucking industry, including testing and specification of equipment and product handling requirements. The trucking industry is subject to possible regulatory and legislative changes that may affect the economics of the industry by requiring changes in operating practices or by changing the demand for common or contract carrier services or the cost of providing truckload services. Some of these possible changes include increasingly stringent environmental regulations, changes in the hours of service regulations which govern the amount of time a driver may drive in any specific period and requiring onboard black box recorder devices or limits on vehicle weight and size.

Interstate motor carrier operations are subject to safety requirements prescribed by DOT. Intrastate motor carrier operations are subject to safety regulations that often mirror federal regulations. Such matters as weight and dimension of equipment are also subject to federal and state regulations. DOT regulations also mandate drug testing of drivers. From time to time, various legislative proposals are introduced, including proposals to increase federal, state or local taxes, including taxes on motor fuels, which may increase our costs or adversely impact the recruitment of drivers. We cannot predict whether, or in what form, any increase in such taxes applicable to us will be enacted.

State and Local Regulation

We are subject to a variety of state and local environmental review and permitting requirements. In some cases, the state environmental review may be more stringent than the federal review. Our operations may require state-law based permits in addition to federal permits, requiring state agencies to consider a range of issues, many the same as federal agencies, including, among other things, a project's impact on wildlife and their habitats, historic and archaeological sites, aesthetics, agricultural operations and scenic areas. The development of new sites and our existing operations also are subject to a variety of local environmental and regulatory requirements, including land use, zoning, building and transportation requirements.

Demand for frac sand in the oil and natural gas industry drove a significant increase in the production of frac sand. As a result, some local communities expressed concern regarding silica sand mining operations. These concerns have generally included exposure to ambient silica sand dust, truck traffic, water usage and blasting. In response, certain state and local communities have developed or are in the process of developing regulations or zoning restrictions intended to minimize dust from becoming airborne, control the flow of truck traffic, significantly curtail the amount of practicable area for proppant production activities, provide compensation to local residents for potential impacts of proppant production activities and, in some cases, ban issuance of new permits for proppant production activities. To date, we have not experienced any material impact to the development of our proppant production facilities and do not anticipate an impact on future operations as a result of these types of concerns. We would expect this trend to continue as oil and natural gas production increases.

Occupational Safety and Health and other Legal Requirements

We are subject to the requirements of the OSHA and comparable state statutes whose purpose is to protect the health and safety of workers. In addition, the OSHA's hazard communication standard, the EPA's Emergency Planning and Community Right-to-Know Act and comparable state regulations and any implementing regulations require that we organize and/or disclose information about hazardous materials used or produced in our operations and that this information be provided to employees, state and local governmental authorities and citizens. We have an internal program of inspection designed to monitor and enforce compliance with worker safety requirements.

Human Capital and Employees

Our employees are a critical asset which are key to our innovative culture and overall success. We are focused on our high-performance culture through attracting, engaging, developing, retaining and rewarding top talent. We strive to enhance the economic and social well-being of our employees and the communities in which we operate. We are committed to providing a welcoming, inclusive environment for our workforce, with best-in-class training and career development opportunities to enable employees to thrive and achieve their career goals.

As of March 31, 2022, we had a total of 197 employees, of which 78 service our corporate function headquarters and 119 work in field locations. We foster a culture of diversity and inclusivity, and greater than 60% of our workforce is minority and/or female as of March 31, 2022. None of our employees are represented by labor unions or subject to collective bargaining agreements. We consider our employee relations to be good.

Health and Safety

The health, safety, and well-being of our employees is of the utmost importance. We are an industry leader with a proven track record in safety.

We provide employees the option to participate in health and welfare plans, including medical, dental, life, accidental death and dismemberment and short-term and long-term disability insurance plans. We also offer a number of health and wellness programs, including telemedicine, health screens and fitness reimbursement as well as access to the Employee Assistance Program which provides employees and their family members access to professional providers to help navigate challenging life events 24 hours a day / 365 days a year.

In response to COVID-19, we adopted enhanced safety measures and practices to protect employee health and safety and continue to follow guidelines from the Centers for Disease Control to protect our employees and minimize the risk of business disruption.

Legal Proceedings

From time to time we may be involved in litigation relating to claims arising out of our operations in the normal course of business. We are not currently a party to any legal proceedings that we believe would have an adverse effect on our financial position, results of operations or cash flows and are not aware of any material legal proceedings contemplated by governmental authorities.

MANAGEMENT

Set forth below are the names, positions and descriptions of the business experience of our executive officers and directors, as well as their ages as of March 31, 2022:

Name	Age	Position with Atlas Inc.
Ben M. "Bud" Brigham	62	Executive Chairman
John Turner	50	Chief Financial Officer
Hunter Wallace	37	Chief Operating Officer

Directors and Executive Officers

Ben M. "Bud" Brigham—Executive Chairman. Ben M. "Bud" Brigham is our founder and has served as the Executive Chairman of our board of directors since our inception. Mr. Brigham has founded several upstream energy enterprises, including Brigham Exploration Company in 1990, which went public in 1997. Mr. Brigham served as its President, Chief Executive Officer and Chairman of the board of directors until its sale to Statoil in December 2011.

In 2012 Mr. Brigham founded Anthem Ventures, LLC, a family office. In that same year he and others founded Brigham Resources, which was subsequently sold to Diamondback Energy Inc., in 2016. In 2012 he also co-founded Brigham Minerals Inc., to pursue mineral acquisitions in top-tier domestic shale resource plays. Brigham Minerals went public in 2019 (NYSE: MNRL), and Mr. Brigham presently serves as its Executive Chairman, a position he has held since its founding.

In 2017 Mr. Brigham founded Brigham Exploration Company, LLC (the second entity founded by Mr. Brigham with such name), a non-operating company focused on the Permian Basin. Brigham Exploration 1 ("BEXP 1") was initially funded with Mr. Brigham's capital, with subsequent investments by friends and family and a large institution. In the fourth quarter of 2021, new acreage and working interest acquisitions ceased in BEXP 1, and Brigham Exploration 2 ("BEXP 2") commenced acreage and working interest acquisitions, with a larger capitalization including most of the BEXP 1 participants as well as additional institutions.

In 2022 he was a co-founder of Langford Energy Partners, which pursues the acquisition, development and optimization of operated oil and gas properties in top-tier shale resource plays.

Prior to founding Brigham Exploration Company in 1990, Mr. Brigham served for six years as an exploration geophysicist with Rosewood Resources, an independent oil and natural gas exploration and production company, and as a seismic data processing geophysicist for Western Geophysical, a provider of 3-D seismic services. Mr. Brigham earned a Bachelor of Science in Geophysics from the University of Texas at Austin. Mr. Brigham is a member of the National Petroleum Council, The Bureau of Economic Geology Visiting Committee and the University of Texas Chancellor's Council Executive Committee. Mr. Brigham was inducted into the All American Wildcatters in April 2012.

Mr. Brigham was selected to serve on the board of directors due to his knowledge in the industry and leadership of our Company since its inception.

John Turner—Chief Financial Officer. John Turner has served as our Chief Financial Officer since April 2017. Mr. Turner has over 20 years of oil and natural gas industry experience. Prior to assuming his current role, Mr. Turner worked in various capacities for both public and private entities, with a focus on corporate finance, business development and strategic planning, including as Chief Financial Officer of Brigham Exploration Company, LLC (the second entity founded by Mr. Brigham with such name), Chief Financial Officer of Mediterranean Resources, LLC and Vice President of

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Brigham Exploration Company (NASDAQ: BEXP). Collectively, Mr. Turner has participated and advised on over \$2.0 billion of capital market transactions, including mergers, restructurings and special situations. Mr. Turner received a Bachelor of Business Administration and a Masters of Business Administration from the McCombs School of Business at the University of Texas at Austin.

Hunter Wallace—Chief Operating Officer. Mr. Wallace has served as our Chief Operating Officer since April 2017. Prior to assuming his current role, Mr. Wallace was a member of ATX Energy Partners LLC as their VP of Operations. Mr. Wallace had been a part of the successful Brigham Resources LLC as the Drilling and Completions Manager, where he led the planning and execution of all 58 grassroots wells in the Delaware Basin, which was instrumental to the successful sale of the assets to Diamondback Energy in 2017 for approximately \$2.6 billion. Prior to his role with Brigham Resources Company, Mr. Wallace served as a Senior Drilling Engineer for Pioneer Natural Resources Co., and a Drilling Engineer for XTO Energy Inc. Mr. Wallace received a Bachelor of Science in Petroleum Engineering from Texas A&M University.

Composition of Our Board of Directors

Our board of directors currently consists of _____ members. Prior to the date that our Class A common stock is first traded on the NYSE, we expect to have a _____ member board of directors.

In evaluating director candidates, we will assess whether a candidate possesses the integrity, judgment, knowledge, experience, skills and expertise that are likely to enhance the board's ability to manage and direct our affairs and business, including, when applicable, to enhance the ability of committees of the board to fulfill their duties. We are in the process of identifying individuals who meet these standards and the relevant independence requirements.

Director Independence

The board of directors is in the process of reviewing the independence of our directors using the independence standards of the NYSE and the SEC. Currently, we anticipate that our board of directors will determine that _____, _____ and _____ are independent within the meaning of NYSE listing standards currently in effect and within the meaning of Section 10A-3 of the Exchange Act.

Committees of the Board of Directors

Following the completion of this offering, the committees of the Board of Directors will include an audit committee, a compensation committee and a nominating and corporate governance committee.

Audit Committee

We will establish an audit committee prior to the completion of this offering. Rules implemented by the NYSE and the SEC require us to have an audit committee comprised of at least three directors who meet the independence and experience standards established by the NYSE and the Exchange Act, subject to transitional relief during the one-year period following the completion of this offering. Our audit committee will initially consist of _____, _____ and _____, who are independent under the rules of the SEC. As required by the rules of the SEC and listing standards of the NYSE, the audit committee will consist solely of independent directors. SEC rules also require that a public company disclose whether or not its audit committee has an "audit committee financial expert" as a member. An "audit committee financial expert" is defined as a person who, based on his or her expertise, possesses the attributes outlined in such rules. We anticipate that _____ will satisfy the definition of "audit committee financial expert."

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This committee will oversee, review, act on and report on various auditing and accounting matters to our board of directors, including the selection of our independent accountants, the scope of our annual audits, fees to be paid to the independent accountants, the performance of our independent accountants and our accounting practices. In addition, the audit committee will oversee our compliance programs relating to legal and regulatory requirements. We expect to adopt an audit committee charter defining the committee's primary duties in a manner consistent with the rules of the SEC and the NYSE or market standards.

Compensation Committee

We will establish a compensation committee of our board of directors prior to the completion of this offering. The members of our compensation committee will be _____, _____ and _____. _____ will serve as chairman of the compensation committee.

Our board of directors has determined that each of _____, _____, and _____ are independent. We will adopt a compensation committee charter, which will detail the principal functions of the compensation committee, including:

- reviewing and approving on an annual basis the corporate goals and objectives relevant to our Chief Executive Officer's compensation, evaluating our Chief Executive Officer's performance in light of such goals and objectives and determining and approving the remuneration (if any) of our Chief Executive Officer based on such evaluation;
- reviewing and approving the compensation of all of our other Section 16 executive officers; reviewing our executive compensation policies and plans;
- implementing and administering our incentive compensation equity-based remuneration plans;
- assisting management in complying with our proxy statement and annual report disclosure requirements;
- approving all special perquisites, special cash payments and other special compensation and benefit arrangements for our executive officers and employees; and
- producing a report on executive compensation to be included in our annual proxy statement; and reviewing, evaluating and recommending changes, if appropriate, to the remuneration for directors.

The charter will also provide that the compensation committee may, in its sole discretion, retain or obtain the advice of a compensation consultant, legal counsel or other adviser and will be directly responsible for the appointment, compensation and oversight of the work of any such adviser. However, before engaging or receiving advice from a compensation consultant, external legal counsel or any other adviser, the compensation committee will consider the independence of each such adviser, including the factors required by NYSE and the SEC.

Nominating and Corporate Governance Committee

We will establish a nominating and corporate governance committee of our board of directors prior to the completion of this offering. The members of our nominating and corporate governance committee will be _____, _____ and _____. _____ will serve as chairman of the nominating and corporate governance committee. Our board of directors has determined that each of _____, _____ and _____ are independent.

The nominating and corporate governance committee is responsible for overseeing the selection of persons to be nominated to serve on our board of directors. The nominating and corporate governance committee considers persons identified by its members, management, stockholders, investment bankers and others.

Guidelines for Selecting Director Nominees

The guidelines for selecting nominees, which will be specified in a charter to be adopted by us, generally provide that persons to be nominated:

- should have demonstrated notable or significant achievements in business, education or public service;
- should possess the requisite intelligence, education and experience to make a significant contribution to the board of directors and bring a range of skills, diverse perspectives and backgrounds to its deliberations; and
- should have the highest ethical standards, a strong sense of professionalism and intense dedication to serving the interests of the stockholders.

The nominating and corporate governance committee will consider a number of qualifications relating to management and leadership experience, background and integrity and professionalism in evaluating a person's candidacy for membership on the board of directors. The nominating and corporate governance committee may require certain skills or attributes, such as financial or accounting experience, to meet specific board needs that arise from time to time and will also consider the overall experience and makeup of its members to obtain a broad and diverse mix of board members. The nominating and corporate governance committee does not distinguish among nominees recommended by stockholders and other persons.

Compensation Committee Interlocks and Insider Participation

None of our executive officers serve on the board of directors or compensation committee of a company that has an executive officer that serves on our board or compensation committee. No member of our board is an executive officer of a company in which one of our executive officers serves as a member of the board of directors or compensation committee of that company.

Code of Conduct and Ethics

Prior to the completion of this offering, our board of directors will adopt a code of conduct applicable to our employees, directors and officers, in accordance with applicable U.S. federal securities laws and the corporate governance rules of the NYSE. Any waiver of this code may be made only by our board of directors and will be promptly disclosed as required by applicable U.S. federal securities laws and the corporate governance rules of the NYSE.

Corporate Governance Guidelines

Prior to the completion of this offering, our board of directors will adopt corporate governance guidelines in accordance with the corporate governance rules of the NYSE.

EXECUTIVE COMPENSATION

We are providing compensation disclosure that satisfies the requirements applicable to emerging growth companies, as defined in the JOBS Act.

2021 Summary Compensation Table

The following table summarizes the compensation awarded to, earned by or paid to our Named Executive Officers for the fiscal year ended December 31, 2021.

Name and Principal Position	Year	Salary (\$)	Bonus (\$)	Stock Awards (\$)	Option Awards (\$)	Non-Equity Incentive Plan Compensation (\$)	Nonqualified Deferred Compensation Earnings (\$)	All Other Compensation (\$)	Total (\$)
Ben M. "Bud" Brigham (Executive Chairman)	2021								
John Turner (Chief Financial Officer)	2021								
Hunter Wallace (Chief Operating Officer)	2021								

Outstanding Equity Awards at 2021 Fiscal Year-End

The following table reflects information regarding outstanding equity-based awards held by our Named Executive Officers as of December 31, 2021.

Name	Number of Securities Underlying Unexercised Options (#) Exercisable	Number of Securities Underlying Unexercised Options (#) Unexercisable	Equity Incentive Plan Awards: Number of Securities Underlying Unexercised Options (#)	Option Exercise Price (\$)	Option Expiration Date	Number of Shares or Units of Stock That Have Not Vested (#)	Market Value of Shares or Units of Stock That Have Not Vested (\$)	Equity Incentive Plan Awards: Number of Shares, Units or Rights That Have Not Vested (#)	Equity Incentive Plan Awards: Market or Payout Value of Unearned Shares, Units or Rights That Have Not Vested (\$)
Ben M. "Bud" Brigham									
John Turner									
Hunter Wallace									

Long-Term Incentive Plan

In order to incentivize management members following the completion of this offering, we anticipate that our board of directors will adopt a LTIP for employees, consultants and directors prior to the completion of this offering. Our Named Executive Officers will be eligible to participate in this plan, which will become effective upon the consummation of this offering. We anticipate that the LTIP will provide for the grant of options, stock appreciation rights, restricted stock, restricted stock units, stock awards, dividend equivalents, other stock-based awards, cash awards, substitute awards and performance awards intended to align the interests of service providers (including the Named Executive Officers) with those of our stockholders.

CORPORATE REORGANIZATION

Atlas LLC was formed on April 20, 2017 for the purpose of being an in-basin, pure-play producer and provider of proppant primarily in the Permian Basin and surrounding areas.

Atlas Inc. was incorporated as a Delaware corporation in February 2022. Following this offering and the corporate reorganization described below, Atlas Inc. will be a holding company whose sole material asset will consist of membership interests in Atlas LLC. Atlas LLC will own, directly or indirectly, all of our operating assets. After the consummation of this offering and the corporate reorganization described below, Atlas Inc. will be the sole managing member of Atlas LLC, will be responsible for all operational, management and administrative decisions relating to Atlas LLC's business and will consolidate the financial results of Atlas LLC and its subsidiaries.

In connection with the completion of this offering, we will engage in the following transactions, which we refer to as the "corporate reorganization":

- new holding companies will be formed through which the Legacy Owners will hold their interests in Atlas LLC;
- all of the membership interests in Atlas LLC will be converted into Atlas Units;
- the Legacy Owners will directly or indirectly transfer all or a portion of their Atlas Units and voting rights in Atlas LLC to Atlas Inc. in exchange for shares of Class A common stock and shares of Class B common stock (such that the Legacy Owners will hold one share of Class B common stock for each Atlas Unit held by them immediately following this offering); and
- Atlas Inc. will contribute all of the net proceeds received by it in this offering to Atlas LLC in exchange for a number of Atlas Units such that the total number of Atlas Units held by Atlas Inc. equals the number of shares of Class A common stock outstanding after this offering.

In the event we increase or decrease the number of shares of Class A common stock sold in this offering, the number of Atlas Units held by us immediately following this offering will correspondingly increase or decrease, respectively.

After giving effect to these transactions and this offering and assuming the underwriters' option to purchase additional shares is not exercised:

- the Legacy Owners will own all of the outstanding shares of Class B common stock and _____ shares of Class A common stock, collectively representing _____ % of the voting power and _____ % of the economic interest of Atlas Inc.;
- Atlas Inc. will own an approximate _____ % interest in Atlas LLC; and
- the Legacy Owners will own an approximate _____ % interest in Atlas LLC.

If the underwriters' option to purchase additional shares is exercised in full:

- the Legacy Owners will own all of the outstanding shares of Class B common stock and _____ shares of Class A common stock, collectively representing _____ % of the voting power and _____ % of the economic interest of Atlas Inc.;
- Atlas Inc. will own an approximate _____ % interest in Atlas LLC; and
- the Legacy Owners will own an approximate _____ % interest in Atlas LLC.

Each share of Class B common stock has no economic rights but entitles its holder to one vote on all matters to be voted on by stockholders generally. Holders of Class A common stock and Class B

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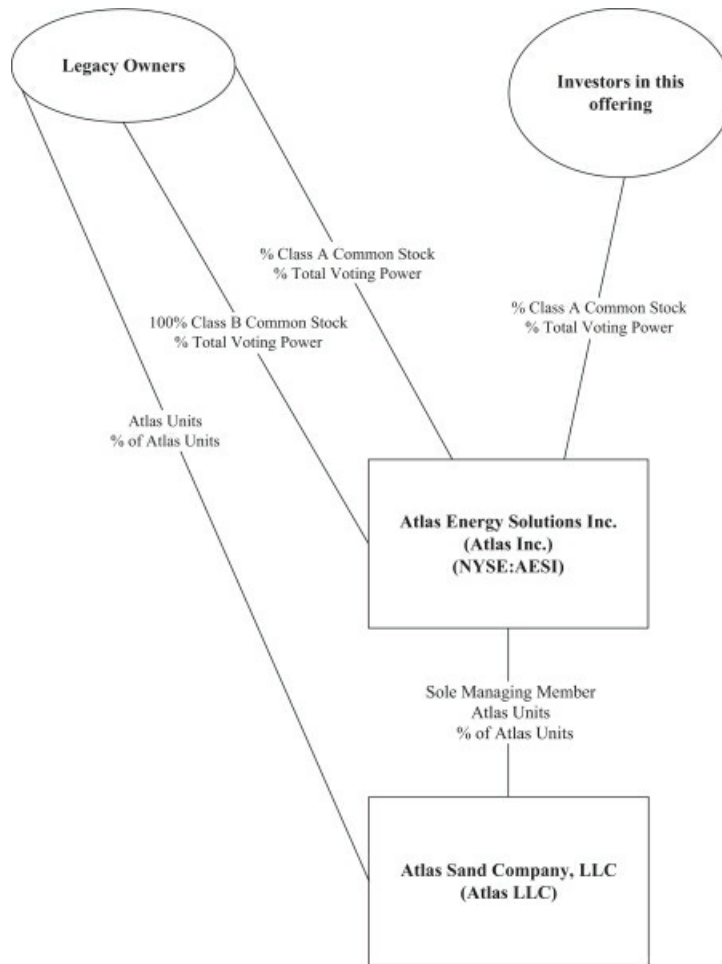
common stock will vote together as a single class on all matters presented to our stockholders for their vote or approval, except as otherwise required by applicable law or by our amended and restated certificate of incorporation. We do not intend to list our Class B common stock on any exchange.

Our organizational structure following the offering and corporate reorganization is commonly referred to as an “Up-C” structure. Pursuant to this structure, following this offering we will hold a number of Atlas Units equal to the number of shares of Class A common stock issued and outstanding, and the Atlas Unitholders (other than us) will hold a number of Atlas Units equal to the number of shares of Class B common stock issued and outstanding. The Up-C structure was selected in order to (i) allow certain Legacy Owners the option to continue to hold their economic ownership in Atlas LLC in “pass-through” form for U.S. federal income tax purposes through their ownership of Atlas Units, and (ii) potentially allow us to benefit from certain net cash tax savings that we might realize as a result of certain increases in tax basis that may occur as a result of Atlas Inc.’s acquisition (or deemed acquisition for U.S. federal income tax purposes) of Atlas Units pursuant to the exercise of the Redemption Right or the Call Right.

Following this offering, under the Atlas LLC Agreement, the Atlas Unitholders, other than Atlas Inc., will, subject to certain limitations, have the Redemption Right to cause Atlas LLC to acquire all or a portion of their Atlas Units for, at Atlas LLC’s election, (i) shares of our Class A common stock at a redemption ratio of one share of Class A common stock for each Atlas Unit redeemed, subject to conversion rate adjustments for stock splits, stock dividends, reclassification and other similar transactions, or (ii) an equivalent amount of cash. We will determine whether to issue shares of Class A common stock or cash based on facts in existence at the time of the decision, which we expect would include the relative value of the Class A common stock (including the trading prices for the Class A common stock at the time), the cash purchase price, the availability of other sources of liquidity (such as an issuance of preferred stock) to acquire the Atlas Units and alternative uses for such cash. Alternatively, upon the exercise of the Redemption Right, Atlas Inc. (instead of Atlas LLC) will have the Call Right to, for administrative convenience, acquire each tendered Atlas Unit directly from the redeeming Atlas Unitholder for, at its election, (x) one share of Class A common stock, subject to conversion rate adjustments for stock splits, stock dividends, reclassification and other similar transactions, or (y) an equivalent amount of cash. In addition, upon a change of control of Atlas Inc., Atlas Inc. will have the right to require the Atlas Unitholders to exercise their Redemption Right with respect to some or all of their Atlas Units. In connection with any redemption of Atlas Units pursuant to the Redemption Right or the Call Right, a corresponding number of shares of Class B common stock will be cancelled. See “Certain Relationships and Related Party Transactions—Atlas LLC Agreement.”

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The following diagram indicates our simplified ownership structure immediately following this offering and the transactions related thereto (assuming the underwriters' option to purchase additional shares is not exercised):



SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT

The following table sets forth information with respect to the beneficial ownership of our Class A common stock and Class B common stock that, upon the consummation of this offering and transactions related thereto, will be owned by:

- each person known to us to beneficially own more than 5% of any class of our outstanding voting securities;
- each member of our board of directors;
- each of our Named Executive Officers; and
- all of our directors and executive officers as a group.

All information with respect to beneficial ownership has been furnished by the respective 5% or more stockholders, directors and Named Executive Officers, as the case may be. Unless otherwise noted, the mailing address of each listed beneficial owner is c/o Atlas Energy Solutions Inc., 5918 W. Courtyard Dr., Suite 500, Austin, Texas 78730.

To the extent that the underwriters sell more than _____ shares of Class A common stock, the underwriters have the option to purchase up to an additional _____ shares from us. These amounts are shown assuming both no exercise and full exercise of the underwriters' option to purchase additional shares.

	Shares Beneficially Owned Prior to the Offering(1)		Shares Beneficially Owned After the Offering (Assuming No Exercise of the Underwriters' Over-Allotment Option)						Shares Beneficially Owned After the Offering (Assuming Full Exercise of the Underwriters' Over-Allotment Option)					
			Class A Common Stock		Class B Common Stock		Combined Voting Power(2)		Class A Common Stock		Class B Common Stock		Combined Voting Power(2)	
			Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
5% Stockholders														
Permian Dunes Holding Company, LLC(3)														
Greg Shepard														
BlackGold SPV I LP(4)														
Directors and Named Executive Officers:														
Ben M. Brigham(5)														
John Turner														
Hunter Wallace														
Directors and executive officers as a group (_____ persons)														

* Less than 1%.

(1) Subject to the terms of the Atlas LLC Agreement, Atlas Unitholders (other than Atlas Inc.) will have the right to redeem all or a portion of their Atlas Units for Class A common stock (or cash, at Atlas LLC's election) at a redemption ratio of one share of Class A common stock for each Atlas Unit redeemed. In connection with any such redemption of Atlas Units, a corresponding number of shares of Class B common stock will be cancelled. See "Certain Relationships and Related

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Person Transactions—Atlas LLC Agreement.” Beneficial ownership of Atlas Units is not reflected as beneficial ownership of shares of our Class A common stock for which such units may be redeemed.

- (2) Represents percentage of voting power of our Class A common stock and Class B common stock voting together as a single class. Holders of Atlas Units will hold one share of Class B common stock for each Atlas Unit.
- (3) These shares are held directly by Permian Dunes Holding Company, LLC, which is wholly-owned and controlled by The Sealy & Smith Foundation. Accordingly, the members of the board of directors of The Sealy & Smith Foundation may be deemed to have or share beneficial ownership of the shares held by Permian Dunes Holding Company, LLC. The mailing address of Permian Dunes Holding Company, LLC is 2200 Market Street, Suite 500, Galveston, Texas 77550.
- (4) These shares are held directly by BlackGold SPV I LP. The general partner of BlackGold SPV I LP is BlackGold SPV GP I LP, and its general partner is BlackGold SPV Capital Advisors GP I LLC, and its managers are Adam Filkerski and Erik Dybesland. Accordingly, Adam Filkerski and Erik Dybesland may be deemed to have or share beneficial ownership of the shares held by BlackGold SPV I LP.
- (5) Includes (i) shares held by Anne and Bud Oil and Gas Vested, LLC, (ii) shares held by Brigham Children’s Family, LP, and (iii) shares owned by Anthem Ventures, LLC. Bud Brigham is the managing member of Anne and Bud Oil and Gas Vested, LLC and Anthem Ventures, LLC. Brigham Children’s Family LP is managed by its general partner, BCFP GP, LLC, which is co-managed by Anne and Bud Brigham.

CERTAIN RELATIONSHIPS AND RELATED PARTY TRANSACTIONS

Atlas LLC Agreement

The Atlas LLC Agreement is filed as an exhibit to the registration statement of which this prospectus forms a part, and the following description of the Atlas LLC Agreement is qualified in its entirety by reference thereto.

Redemption Rights

Following this offering, under the Atlas LLC Agreement, the Atlas Unitholders, other than Atlas Inc., will, subject to certain limitations, have the right, pursuant to the Redemption Right, to cause Atlas LLC to acquire all or a portion of their Atlas Units for, at Atlas LLC's election, (i) shares of our Class A common stock at a redemption ratio of one share of Class A common stock for each Atlas Unit redeemed, subject to conversion rate adjustments for stock splits, stock dividends, reclassification and other similar transactions, or (ii) an equivalent amount of cash. We will determine whether to issue shares of Class A common stock or cash based on facts in existence at the time of the decision, which we expect would include the relative value of the Class A common stock (including the trading prices for the Class A common stock at the time), the cash purchase price, the availability of other sources of liquidity (such as an issuance of preferred stock) to acquire the Atlas Units and alternative uses for such cash. Alternatively, upon the exercise of the Redemption Right, Atlas Inc. (instead of Atlas LLC) will have the right, pursuant to the Call Right, to, for administrative convenience, acquire each tendered Atlas Unit directly from the redeeming Atlas Unitholder for, at its election, (x) one share of Class A common stock, subject to conversion rate adjustments for stock splits, stock dividends, reclassification and other similar transactions, or (y) an equivalent amount of cash. In addition, upon a change of control of Atlas Inc., Atlas Inc. will have the right to require the Atlas Unitholders to exercise their Redemption Right with respect to some or all of their Atlas Units. In connection with any redemption of Atlas Units pursuant to the Redemption Right or the Call Right, a corresponding number of shares of Class B common stock will be cancelled.

As the Legacy Owners cause their Atlas Units to be redeemed, holding other assumptions constant, Atlas Inc.'s membership interest in Atlas LLC will be correspondingly increased, the number of shares of Class A common stock outstanding will be increased, and the number of shares of Class B common stock outstanding will be reduced.

Distributions and Allocations

Under the Atlas LLC Agreement, subject to the obligations of Atlas LLC to make certain tax distributions and to reimburse Atlas Inc. for its corporate and other overhead expenses, we will have the right to determine when distributions will be made to the holders of Atlas Units and the amount of any such distributions. Following this offering, if we authorize a distribution, such distribution will be made to the holders of Atlas Units generally on a pro rata basis in accordance with their respective percentage ownership of Atlas Units. To the extent Atlas LLC has available cash and subject to the terms of any current or future debt instruments, the Atlas LLC Agreement will (i) require Atlas to make pro rata cash distributions to the Atlas Unitholders, including Atlas Inc., in an amount sufficient to allow Atlas Inc. to pay its taxes and (ii) permit Atlas Inc., as managing member of Atlas LLC, to cause Atlas LLC to make additional pro rata distributions to the Atlas Unitholders, including to the Legacy Owners that hold Atlas Units and Atlas Inc., in an amount generally intended to allow such holders (other than Atlas Inc.) to satisfy their respective income tax liabilities with respect to their allocable share of the income of Atlas LLC, based on certain assumptions and conventions, to the extent such liabilities exceed amounts otherwise distributed by Atlas LLC. In addition, the Atlas LLC Agreement will require Atlas to make non-pro rata payments to Atlas Inc. to reimburse it for its corporate and other overhead expenses, which payments will not be treated as distributions under the Atlas LLC Agreement.

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Atlas LLC will allocate its net income or net loss for each year to the holders of Atlas Units pursuant to the terms of the Atlas LLC Agreement, and the holders of Atlas Units, including Atlas Inc., will generally incur U.S. federal, state and local income taxes on their share of any net taxable income of Atlas LLC. Net income and losses of Atlas LLC generally will be allocated to the holders of Atlas Units on a pro rata basis in accordance with their respective percentage ownership of Atlas Units, subject to requirements under U.S. federal income tax law that certain items of income, gain, loss or deduction be allocated disproportionately in certain circumstances.

Issuance of Equity

The Atlas LLC Agreement will generally provide that, at any time Atlas Inc. issues a share of its Class A common stock or any other equity security, the net proceeds received by Atlas Inc. with respect to such issuance, if any, shall be concurrently invested in Atlas LLC, and Atlas LLC shall issue to Atlas Inc. one Atlas Unit or other economically equivalent equity interest. Conversely, if at any time any shares of Atlas Inc.'s Class A common stock are redeemed, repurchased or otherwise acquired, Atlas LLC shall redeem, repurchase or otherwise acquire an equal number of Atlas Units held by Atlas Inc., upon the same terms and for the same price as the shares of our Class A common stock are redeemed, repurchased or otherwise acquired.

Competition

Under the Atlas LLC Agreement, the members have agreed that _____ and its affiliates will be permitted to engage in business activities or invest in or acquire businesses that may compete with our business or do business with our customers.

Dissolution

Atlas LLC will be dissolved only upon the first to occur of (i) the sale of substantially all of its assets or (ii) an election by us to dissolve the company. Upon dissolution, Atlas LLC will be liquidated and the proceeds from any liquidation will be applied and distributed in the following manner: (a) first, to creditors (including to the extent permitted by law, creditors who are members) in satisfaction of the liabilities of Atlas LLC, (b) second, to establish cash reserves for contingent or unforeseen liabilities, and (c) third, to the Atlas Unitholders in proportion to the number of Atlas Units owned by each of them.

Registration Rights Agreement

In connection with the closing of this offering, we will enter into a registration rights agreement with the Legacy Owners. We expect that the agreement will contain provisions by which we agree to register under the U.S. federal securities laws the offer and resale of shares of our Class A common stock by the Legacy Owners or certain of their affiliates or permitted transferees under the registration rights agreement. These registration rights will be subject to certain conditions and limitations. We will generally be obligated to pay all registration expenses in connection with these registration obligations, regardless of whether a registration statement is filed or becomes effective.

Historical Transactions with Affiliates

Brigham Development—Wyatt's Lodge

On December 10, 2021, Atlas LLC entered into a definitive agreement under which Atlas LLC acquired certain assets from Brigham Development, LLC and BDWTX, LLC in an all-cash transaction valued at \$7.0 million. These assets include Wyatt's Lodge, a lodging facility that is used by Permian

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Basin based personnel and located between our Kermit and Monahans facilities in Kermit, Texas. This transaction is considered an asset acquisition in 2021. By acquiring Wyatt's Lodge, we eliminated approximately \$1.5 million of annual rental expense. Brigham Development, LLC an BDWTX, LLC are each owned and controlled by our Executive Chairman, Bud Brigham.

On August 6, 2018, Atlas LLC entered into a Lease Agreement with BDWTX, LLC for the assets that included Wyatt's Lodge as described above. The Lease Agreement was amended on February 1, 2019 to adjust the terms of the lease payment obligations thereunder. Under the Lease Agreement, as amended, Atlas LLC operated Wyatt's Lodge and made aggregate lease payments equal to approximately \$1.5 million, \$1.5 million and \$1.2 million for the years ended December 31, 2021, 2020 and 2019, respectively. The Lease Agreement was terminated in December 2021 in connection with the acquisition by Atlas LLC described above.

Brigham Land Management LLC

Brigham Land Management LLC ("Brigham Land") provides the Company with landman services for certain of our projects and initiatives. The services are provided on a per hour basis at market prices. Brigham Land is owned and controlled by Vince Brigham, an advisor to the Company and the brother of our Executive Chairman, Bud Brigham. For the years ended December 31, 2021, 2020 and 2019, the Company made aggregate payments to Brigham Land equal to approximately \$0.7 million, \$0.5 million and \$1.6 million, respectively.

Brigham Oil & Gas, LLC

On January 26, 2021, Atlas LLC entered into a Joint Development Agreement with, among others, Brigham Oil & Gas, LLC ("BOG"), which is controlled by our Executive Chairman, Bud Brigham. Under the Joint Development Agreement, the Company has agreed to supply sand for certain wells to be drilled and completed by BOG. For the year ended December 31, 2021, we received revenue under the agreement equal to approximately \$0.2 million. There were no sales transactions with BOG for the years ended December 31, 2020 and 2019.

Brigham Earth, LLC

Brigham Earth, LLC provides the Company with professional and consulting fees as well as access to certain information and software systems. Brigham Earth, LLC is owned and controlled our Executive Chairman, Bud Brigham. For the years ended December 31, 2021, 2020 and 2019, the Company made aggregate payments to Brigham Earth, LLC for these services equal to approximately \$1.1 million, \$0.5 million and \$0.0 million, respectively.

BlackGold SPV I LP

On January 30, 2018, Atlas LLC, as borrower, entered into the 2018 Term Loan Credit Facility with BlackGold SPV I LP ("BlackGold SPV"). In connection with its entry into the 2018 Term Loan Credit Facility and the subsequent funding of certain term loans thereunder, Atlas LLC issued to BlackGold SPV certain warrants exercisable for Class D units of Atlas LLC, which BlackGold SPV exercised in full prior to the termination of the 2018 Term Loan Credit Facility in connection with our full repayment of borrowings thereunder on October 20, 2021. BlackGold SPV beneficially owns all of the outstanding Class D units of Atlas LLC, which represent over 5.0% beneficial ownership of Atlas LLC. See "Security Ownership of Certain Beneficial Owners and Management."

During the years ended December 31, 2021, 2020 and 2019, respectively, the interest rate was 13.0%, 13.0% and 13.0% the largest aggregate amount of principal outstanding was \$189.6 million, \$189.6 million and \$170.1 million, and Atlas LLC made aggregate interest payments of approximately \$18.9 million (including \$3.0 million paid in kind with the issuance of additional principal), \$23.6 million (including \$11.8

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million paid in kind) and \$21.1 million (including \$10.6 million paid in kind). In the years ended December 31, 2021, 2020 and 2019, Atlas LLC repaid approximately \$192.6 million, \$7.3 million and \$6.1 million of the principal amount of term loans under the 2018 Term Loan Credit Facility, respectively, which, in the case of the year ended December 31, 2021, included approximately \$165.3 million of principal that Atlas LLC repaid in connection with the October 2021 payoff and termination described above, as well as approximately \$4.5 million in prepayment premiums.

Permian Dunes Holding Company, LLC

The rights and access to the mineral reserves associated with our Monahans operations are secured under the Monahans Lease with Permian Dunes. Permian Dunes is a greater than 5% beneficial owner of Atlas LLC. In December 2017, we also entered into the Kermit Royalty Agreement providing Permian Dunes with an overriding royalty interest in revenues we receive from the sale of proppant mined from the reserves associated with our Kermit facility.

Under the Monahans Lease and the Kermit Royalty Agreement, we make monthly royalty payments to Permian Dunes based on a percentage of our gross monthly sales of proppant. The lease also includes an annual minimum royalty payment in the amount of \$1,000,000 (the "Minimum Annual Royalty Payment") in any year of the term following the occurrence of a Capital Event. Because this offering will constitute a Capital Event under the Monahans Lease, if, during the twelve months following the date of the consummation of this offering, our royalty payments to Permian Dunes do not exceed the Minimum Annual Royalty Payment, we will be obligated to pay to Permian Dunes the difference between the total royalty payments for such year and the Minimum Annual Royalty Payment.

Under the terms of the Kermit Royalty Agreement, the agreement would terminate in connection with the consummation of this offering. In contrast, the Monahans Lease, including the royalty payment obligations thereunder, will survive the consummation of this offering or any other Capital Event.

Corporate Reorganization

In connection with our corporate reorganization, we will engage in certain transactions with the Legacy Owners. Please see the section titled "Corporate Reorganization."

Policies and Procedures for Review of Related Party Transactions

A "Related Party Transaction" is a transaction, arrangement or relationship in which we or any of our subsidiaries was, is or will be a participant, the amount of which involved exceeds \$120,000, and in which any Related Person had, has or will have a direct or indirect material interest. A "Related Person" means:

- any person who is, or at any time during the applicable period was, one of our directors or one of our executive officers;
- any person who is known by us to be the beneficial owner of more than 5.0% of our Class A common stock;
- any immediate family member of any of the foregoing persons, which means any child, stepchild, parent, stepparent, spouse, sibling, mother-in-law, father-in-law, son-in-law, daughter-in-law, brother-in-law or sister-in-law of a director, executive officer or a beneficial owner of more than 5.0% of our Class A common stock and any person (other than a tenant or employee) sharing the household of such director, executive officer or beneficial owner of more than 5.0% of our Class A common stock; and

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- any firm, corporation or other entity in which any of the foregoing persons is a partner or principal or in a similar position or in which such person has a 10.0% or greater beneficial ownership interest.

Our board of directors will adopt a written related party transactions policy prior to the completion of this offering. Pursuant to this policy, our audit committee will review all material facts of all Related Party Transactions and either approve or disapprove entry into the Related Party Transaction, subject to certain limited exceptions. In determining whether to approve or disapprove entry into a Related Party Transaction, our audit committee shall take into account, among other factors, the following: (i) whether the Related Party Transaction is on terms no less favorable than terms generally available to an unaffiliated third party under the same or similar circumstances and (ii) the extent of the Related Person's interest in the transaction. Furthermore, the policy requires that all Related Party Transactions required to be disclosed in our filings with the SEC be so disclosed in accordance with applicable laws, rules and regulations.

DESCRIPTION OF CAPITAL STOCK

Upon completion of this offering and related transactions, the authorized capital stock of Atlas Inc. will consist of _____ shares of Class A common stock, \$0.01 par value per share, of which _____ shares will be issued and outstanding and _____ shares of Class B common stock, \$0.01 par value per share, of which _____ shares will be issued and outstanding and _____ shares of preferred stock, \$0.01 par value per share, of which no shares will be issued and outstanding.

The following summary of the capital stock and amended and restated certificate of incorporation and bylaws of Atlas Inc. does not purport to be complete and is qualified in its entirety by reference to the provisions of applicable law and to our amended and restated certificate of incorporation and bylaws, which will be filed as exhibits to the registration statement of which this prospectus is a part.

Class A Common Stock

Voting Rights

Holders of shares of Class A common stock are entitled to one vote per share held of record on all matters to be voted upon by the stockholders. The holders of Class A common stock do not have cumulative voting rights in the election of directors.

Dividend Rights

Holders of shares of our Class A common stock are entitled to ratably receive dividends when and if declared by our board of directors out of funds legally available for that purpose, subject to any statutory or contractual restrictions on the payment of dividends and to any prior rights and preferences that may be applicable to any outstanding preferred stock.

Liquidation Rights

Upon our liquidation, dissolution, distribution of assets or other winding up, the holders of Class A common stock are entitled to receive ratably the assets available for distribution to the stockholders after payment of liabilities and the liquidation preference of any of our outstanding shares of preferred stock.

Other Matters

The shares of Class A common stock have no preemptive or conversion rights and are not subject to further calls or assessment by us. There are no redemption or sinking fund provisions applicable to the Class A common stock. All outstanding shares of our Class A common stock, including the Class A common stock offered in this offering, are fully paid and non-assessable.

Class B Common Stock

General

In connection with the corporate reorganization and this offering, the Legacy Owners holding Atlas Units immediately following the corporate reorganization and this offering will receive one share of Class B common stock for each such Atlas Unit that they hold. Accordingly, in addition to the number votes with respect to the shares of Class A common stock held by them, the Legacy Owners will have a number of votes in Atlas Inc. equal to the aggregate number of Atlas Units that they hold.

Voting Rights

Holders of shares of our Class B common stock are entitled to one vote per share held of record on all matters to be voted upon by the stockholders. Holders of shares of our Class A common stock and Class B common stock vote together as a single class on all matters presented to our stockholders for their vote or approval, except with respect to the amendment of certain provisions of our amended and restated certificate of incorporation that would alter or change the powers, preferences or special rights of the Class B common stock so as to affect them adversely, which amendments must be by a majority of the votes entitled to be cast by the holders of the shares affected by the amendment, voting as a separate class, or as otherwise required by applicable law.

Dividend Rights Holders of our Class B common stock do not have any right to receive dividends, unless the dividend consists of shares of our Class B common stock or of rights, options, warrants or other securities convertible or exercisable into or exchangeable for shares of Class B common stock paid proportionally with respect to each outstanding share of our Class B common stock and a dividend consisting of shares of Class A common stock or of rights, options, warrants or other securities convertible or exercisable into or redeemable for shares of Class A common stock on the same terms is simultaneously paid to the holders of Class A common stock.

Liquidation Rights Holders of our Class B common stock do not have any right to receive a distribution upon a liquidation or winding up of Atlas Inc.

Preferred Stock

Our amended and restated certificate of incorporation authorizes our board of directors, subject to any limitations prescribed by law, without further stockholder approval, to establish and to issue from time to time one or more classes or series of preferred stock, par value \$0.01 per share, covering up to an aggregate of shares of preferred stock. Each class or series of preferred stock will cover the number of shares and will have the powers, preferences, rights, qualifications, limitations and restrictions determined by the board of directors, which may include, among others, dividend rights, liquidation preferences, voting rights, conversion rights, preemptive rights and redemption rights. Except as provided by law or in a preferred stock designation, the holders of preferred stock will not be entitled to vote at or receive notice of any meeting of stockholders.

Anti-Takeover Provisions under Section 203 of the Delaware General Corporation Law

We are subject to Section 203 of the Delaware General Corporation Law, which generally prohibits a publicly held Delaware corporation from engaging in any business combination with any interested stockholder for a period of three years after the date that such stockholder became an interested stockholder, with the following exceptions:

- before such date, the board of directors of the corporation approved either the business combination or the transaction that resulted in the stockholder becoming an interested stockholder;
- upon completion of the transaction that resulted in the stockholder becoming an interested stockholder, the interested stockholder owned at least 85% of the voting stock of the corporation outstanding at the time the transaction began, excluding for purposes of determining the voting stock outstanding, but not the outstanding voting stock owned by the interested stockholder, those shares owned (1) by persons who are directors and also officers and (2) employee stock plans in which employee participants do not have the right to determine confidentially whether shares held subject to the plan will be tendered in a tender or exchange offer; or

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- on or after such date, the business combination is approved by the board of directors and authorized at an annual or special meeting of the stockholders, and not by written consent, by the affirmative vote of at least 66-2/3% of the outstanding voting stock that is not owned by the interested stockholder.

In general, Section 203 defines a “business combination” to include the following:

- any merger or consolidation involving the corporation and the interested stockholder;
- any sale, transfer, pledge or other disposition of 10% or more of the assets of the corporation involving the interested stockholder;
- subject to certain exceptions, any transaction that results in the issuance or transfer by the corporation of any stock of the corporation to the interested stockholder;
- any transaction involving the corporation that has the effect of increasing the proportionate share of the stock or any class or series of the corporation beneficially owned by the interested stockholder; or
- the receipt by the interested stockholder of the benefit of any loans, advances, guarantees, pledges or other financial benefits by or through the corporation.

In general, Section 203 defines an “interested stockholder” as an entity or person who, together with the person’s affiliates and associates, beneficially owns, or within three years prior to the time of determination of interested stockholder status did own, 15% or more of the outstanding voting stock of the corporation.

Amended and Restated Certificate of Incorporation and Bylaws

Provisions of our amended and restated certificate of incorporation and our amended and restated bylaws, which will become effective upon the closing of this offering, may delay or discourage transactions involving an actual or potential change in control or change in our management, including transactions in which stockholders might otherwise receive a premium for their shares or transactions that our stockholders might otherwise deem to be in their best interests. Therefore, these provisions could adversely affect the price of our Class A common stock.

Among other things, upon the completion of this offering, our amended and restated certificate of incorporation and amended and restated bylaws will:

- establish advance notice procedures with regard to stockholder proposals relating to the nomination of candidates for election as directors or new business to be brought before meetings of our stockholders. These procedures provide that notice of stockholder proposals must be timely given in writing to our corporate secretary prior to the meeting at which the action is to be taken. Generally, to be timely, notice must be received at our principal executive offices not less than 90 days nor more than 120 days prior to the first anniversary date of the annual meeting for the preceding year. Our amended and restated bylaws specify the requirements as to form and content of all stockholders’ notices. These requirements may preclude stockholders from bringing matters before the stockholders at an annual or special meeting;
- provide our board of directors the ability to authorize undesignated preferred stock. This ability makes it possible for our board of directors to issue, without stockholder approval, preferred stock with voting or other rights or preferences that could impede the success of any attempt to change control of us. These and other provisions may have the effect of deterring hostile takeovers or delaying changes in control or management of our Company;
- provide that subject to the rights of the holders of any series of preferred stock to elect directors under specified circumstances, the authorized number of directors may be changed only by resolution of the board of directors;

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- provide that all vacancies, including newly created directorships, may, except as otherwise required by law or, if applicable, the rights of holders of a series of preferred stock, be filled by the affirmative vote of a majority of directors then in office, even if such directors constitute less than a quorum;
- provide that our amended and restated bylaws can be amended or repealed at any regular or special meeting of stockholders or by the board of directors;
- provide that any action required or permitted to be taken by the stockholders must be effected at a duly called annual or special meeting of stockholders and may not be effected by any consent in writing in lieu of a meeting of such stockholders, subject to the rights of the holders of any series of preferred stock with respect to such series (prior to such time, such actions may be taken without a meeting by written consent of holders of common stock having not less than the minimum number of votes that would be necessary to authorize such action at a meeting);
- provide that our amended and restated certificate of incorporation and amended and restated bylaws may be amended by the affirmative vote of the holders of at least two-thirds of our then-outstanding common stock (prior to such time, our amended and restated certificate of incorporation and amended and restated bylaws may be amended by the affirmative vote of the holders of a majority of our then-outstanding common stock);
- provide that special meetings of our stockholders may only be called by the board of directors (pursuant to a resolution adopted by a majority of the board of directors), the chief executive officer or the chairman of the board of directors (prior to such time, a special meeting may also be called at the request of the stockholders holding a majority of the outstanding shares entitled to vote); and
- provide that the affirmative vote of the holders of at least 75% of the voting power of all then-outstanding common stock entitled to vote generally in the election of directors, voting together as a single class, shall be required to remove any or all of the directors from office and such removal may only be for cause.

Forum Selection

Our amended and restated certificate of incorporation will provide that unless we consent in writing to the selection of an alternative forum, the Court of Chancery of the State of Delaware will, to the fullest extent permitted by applicable law, be the sole and exclusive forum for:

- any derivative action or proceeding brought on our or our stockholders' behalf;
- any action asserting a claim for a breach of a fiduciary duty owed by any of our current or former directors, officers, employees or agents to us or our stockholders;
- any action asserting a claim arising pursuant to any provision of the DGCL, our amended and restated certificate of incorporation or our bylaws;
- any action as to which the DGCL confers jurisdiction to the Court of Chancery of the State of Delaware; or
- any other action asserting a claim against us that is governed by the internal affairs doctrine, in each such case subject to such Court of Chancery having personal jurisdiction over the indispensable parties named as defendants therein.

Our amended and restated certificate of incorporation will also provide that, to the fullest extent permitted by applicable law, the federal district courts of the United States will be the exclusive forum for resolving any complaint asserting a cause of action arising under the Securities Act. Notwithstanding the foregoing, the exclusive forum provision will not apply to suits brought to enforce any liability or duty created by the Exchange Act or any other claim for which the federal courts have exclusive jurisdiction. While the Delaware courts have determined that such choice of forum provisions are facially valid, a stockholder may nevertheless seek to bring a claim in a venue other than those

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designated in the exclusive-forum provisions, and there can be no assurance that such provisions will be enforced by a court in those other jurisdictions. If a court were to find the exclusive-forum provisions contained in our amended and restated certificate of incorporation to be inapplicable or unenforceable in an action, we may incur additional costs associated with resolving such action in other jurisdictions, which could harm our business.

Any person or entity purchasing or otherwise acquiring any interest in shares of our capital stock will be deemed to have notice of and to have consented to this forum selection provision. This choice of forum provision may limit a stockholder's ability to bring a claim in a judicial forum that it finds favorable for disputes with us or our directors, officers, employees or agents, which may discourage such lawsuits against us and such persons. Alternatively, if a court were to find these provisions of our amended and restated certificate of incorporation inapplicable to, or unenforceable in respect of, one or more of the specified types of actions or proceedings, we may incur additional costs associated with resolving such matters in other jurisdictions, which could adversely affect our business, financial condition or results of operations.

Limitation of Liability and Indemnification Matters

Our amended and restated certificate of incorporation will limit the liability of our directors for monetary damages for breach of their fiduciary duty as directors, except for liability that cannot be eliminated under the DGCL. Delaware law provides that directors of a company will not be personally liable for monetary damages for breach of their fiduciary duty as directors, except for liabilities:

- for any breach of their duty of loyalty to us or our stockholders;
- for acts or omissions not in good faith or which involve intentional misconduct or a knowing violation of law;
- for unlawful payment of dividend or unlawful stock repurchase or redemption, as provided under Section 174 of the DGCL; or
- for any transaction from which the director derived an improper personal benefit.

Any amendment, repeal or modification of these provisions will be prospective only and would not affect any limitation on liability of a director for acts or omissions that occurred prior to any such amendment, repeal or modification.

Our amended and restated bylaws will also provide that we will indemnify our directors and officers to the fullest extent permitted by Delaware law. Our amended and restated bylaws also will permit us to purchase insurance on behalf of any officer, director, employee or other agent for any liability arising out of that person's actions as our officer, director, employee or agent, regardless of whether Delaware law would permit indemnification. We intend to enter into indemnification agreements with each of our current and future directors and officers. These agreements will require us to indemnify these individuals to the fullest extent permitted under Delaware law against liability that may arise by reason of their service to us, and to advance expenses incurred as a result of any proceeding against them as to which they could be indemnified. We believe that the limitation of liability provision that will be in our amended and restated certificate of incorporation and the indemnification agreements will facilitate our ability to continue to attract and retain qualified individuals to serve as directors and officers.

Transfer Agent and Registrar

The transfer agent and registrar for our Class A common stock will be .

Listing

We intend to apply to list our Class A common stock for quotation on the NYSE under the symbol "AESI."

SHARES ELIGIBLE FOR FUTURE SALE

Prior to this offering, there has been no public market for our Class A common stock. Future sales of our Class A common stock in the public market, or the availability of such shares for sale in the public market, could adversely affect the market price of our Class A common stock prevailing from time to time. As described below, only a limited number of shares will be available for sale shortly after this offering due to contractual and legal restrictions on resale. Nevertheless, sales of a substantial number of shares of our Class A common stock in the public market after such restrictions lapse, or the perception that those sales may occur, could adversely affect the prevailing market price of our Class A common stock at such time and our ability to raise equity-related capital at a time and price we deem appropriate.

Sales of Restricted Shares

Upon the closing of this offering and related transactions, we will have outstanding an aggregate of _____ shares of Class A common stock. Of these _____ shares, all of the shares of Class A common stock (or _____ shares of Class A common stock if the underwriters' option to purchase additional shares is exercised in full) to be sold in this offering will be freely tradable without restriction or further registration under the Securities Act, unless the shares are held by any of our "affiliates" as such term is defined in Rule 144 under the Securities Act. All remaining shares of Class A common stock held by the Legacy Owners will be deemed "restricted securities" as such term is defined under Rule 144. The restricted securities were issued and sold by us in private transactions and are eligible for public sale only if registered under the Securities Act or if they qualify for an exemption from registration under Rule 144 or Rule 701 under the Securities Act, which rules are summarized below.

Following this offering, under the Atlas LLC Agreement, the Atlas Unitholders, other than Atlas Inc., will, subject to certain limitations, have the right, pursuant to the Redemption Right, to cause Atlas LLC to acquire all or a portion of their Atlas Units for, at Atlas LLC's election, (i) shares of our Class A common stock at a redemption ratio of one share of Class A common stock for each Atlas Unit redeemed, subject to conversion rate adjustments for stock splits, stock dividends, reclassification and other similar transactions, or (ii) an equivalent amount of cash. Alternatively, upon the exercise of the Redemption Right, Atlas Inc. (instead of Atlas LLC) will have the right, pursuant to the Call Right, to, for administrative convenience, acquire each tendered Atlas Unit directly from the redeeming Atlas Unitholder for, at its election, (x) one share of Class A common stock, subject to conversion rate adjustments for stock splits, stock dividends, reclassification and other similar transactions, or (y) an equivalent amount of cash. In connection with any redemption of Atlas Units pursuant to the Redemption Right or the Call Right, a corresponding number of shares of Class B common stock will be cancelled. See "Certain Relationships and Related Party Transactions—Atlas LLC Agreement." The shares of Class A common stock we issue upon such redemptions would be "restricted securities" as defined in Rule 144 described below. However, upon the closing of this offering, we intend to enter into a registration rights agreement with the Legacy Owners that will require us to register under the Securities Act these shares of Class A common stock. See the section titled "Certain Relationships and Related Party Transactions—Registration Rights Agreement."

As a result of the lock-up agreements described below and the provisions of Rule 144 and Rule 701 under the Securities Act, the shares of our Class A common stock (excluding the shares to be sold in this offering) that will be available for sale in the public market are as follows:

- no shares will be eligible for sale on the date of this prospectus or prior to 180 days after the date of this prospectus; and
- shares will be eligible for sale upon the expiration of the lock-up agreements, beginning 180 days after the date of this prospectus when permitted under Rule 144 or Rule 701.

Lock-up Agreements

We, _____ and our officers and directors have agreed with the underwriters, subject to certain exceptions, not to dispose of or hedge any of their Class A common stock or securities convertible into or exchangeable for shares of Class A common stock during the period from the date of this prospectus continuing through the date 180 days after the date of this prospectus, subject to certain exceptions and extensions. See the section titled "Underwriting" for a description of these lock-up provisions.

Rule 144

In general, under Rule 144 under the Securities Act as currently in effect, a person (or persons whose shares are aggregated) who is not deemed to have been an affiliate of ours at any time during the three months preceding a sale, and who has beneficially owned restricted securities within the meaning of Rule 144 for at least six months (including any period of consecutive ownership of preceding non-affiliated holders) would be entitled to sell those shares, subject only to the availability of current public information about us. A non-affiliated person (who has been unaffiliated for at least the past three months) who has beneficially owned restricted securities within the meaning of Rule 144 for at least one year would be entitled to sell those shares without regard to the provisions of Rule 144.

A person (or persons whose shares are aggregated) who is deemed to be an affiliate of ours and who has beneficially owned restricted securities within the meaning of Rule 144 for at least six months would be entitled to sell within any three-month period a number of shares that does not exceed the greater of one percent of the then outstanding shares of our Class A common stock or the average weekly trading volume of our Class A common stock reported through the NYSE during the four calendar weeks preceding the filing of notice of the sale. Such sales are also subject to certain manner of sale provisions, notice requirements and the availability of current public information about us.

Rule 701

In general, under Rule 701 under the Securities Act, any of our employees, directors, officers, consultants or advisors who purchase shares from us in connection with a compensatory stock or option plan or other written agreement before the effective date of this offering is entitled to sell such shares 90 days after the effective date of this offering in reliance on Rule 144, without having to comply with the holding period requirement of Rule 144 and, in the case of non-affiliates, without having to comply with the public information, volume limitation or notice filing provisions of Rule 144. The SEC has indicated that Rule 701 will apply to typical stock options granted by an issuer before it becomes subject to the reporting requirements of the Exchange Act, along with the shares acquired upon exercise of such options, including exercises after the date of this prospectus.

Stock Issued Under Employee Plans

We intend to file a registration statement on Form S-8 under the Securities Act to register stock issuable under our LTIP. This registration statement on Form S-8 is expected to be filed following the effective date of the registration statement of which this prospectus is a part and will be effective upon filing. Accordingly, shares registered under such registration statement will be available for sale in the open market following the effective date, unless such shares are subject to vesting restrictions with us or the lock-up restrictions described elsewhere in this prospectus.

MATERIAL U.S. FEDERAL INCOME TAX CONSIDERATIONS FOR NON-U.S. HOLDERS

The following is a summary of the material U.S. federal income tax considerations related to the purchase, ownership and disposition of our Class A common stock by a non-U.S. holder (as defined below) that holds our Class A common stock as a “capital asset” within the meaning of Section 1221 of the Code (generally, property held for investment). This summary is based on the provisions of the Code, U.S. Treasury regulations promulgated thereunder, administrative rulings and judicial decisions, all as in effect on the date hereof, and all of which are subject to change or differing interpretations, possibly with retroactive effect. We cannot assure you that a change in law will not significantly alter the tax considerations that we describe in this summary. We have not sought any ruling from the IRS with respect to the statements made and the positions and conclusions described in the following summary. Such statements, positions and conclusions are not free from doubt, and there can be no assurance that the IRS, your tax advisor, or a court will agree with such statements, positions and conclusions.

This summary does not address all aspects of U.S. federal income taxation that may be relevant to non-U.S. holders in light of their personal circumstances. In addition, this summary does not address the impact of the Medicare surtax on certain net investment income, U.S. federal estate or gift tax laws, any U.S. state or local or non-U.S. tax laws, any tax treaties or any other tax law other than the U.S. federal income tax law. This summary also does not address all U.S. federal income tax considerations that may be relevant to particular non-U.S. holders in light of their personal circumstances or that may be relevant to certain categories of investors that may be subject to special rules, such as:

- banks, insurance companies or other financial institutions;
- tax-exempt or governmental organizations;
- tax-qualified retirement plans;
- “qualified foreign pension funds” as defined in Section 897(l)(2) of the Code (or any entities all of the interests of which are held by a qualified foreign pension fund);
- dealers in securities or foreign currencies;
- persons whose functional currency is not the U.S. dollar;
- traders in securities that use the mark-to-market method of accounting for U.S. federal income tax purposes;
- “controlled foreign corporations,” “passive foreign investment companies,” and corporations that accumulate earnings to avoid U.S. federal income tax;
- persons subject to the alternative minimum tax;
- entities or arrangements treated as partnerships or pass-through entities for U.S. federal income tax purposes or holders of interests therein;
- persons deemed to sell our Class A common stock under the constructive sale provisions of the Code;
- persons that acquired our Class A common stock through the exercise of employee stock options or otherwise as compensation or through a tax-qualified retirement plan;
- certain former citizens or long-term residents of the United States; and
- persons that hold our Class A common stock as part of a straddle, appreciated financial position, synthetic security, hedge, conversion transaction or other integrated investment or risk reduction transaction.

PROSPECTIVE INVESTORS SHOULD CONSULT WITH, AND RELY SOLELY UPON, THEIR OWN TAX ADVISORS WITH RESPECT TO THE APPLICATION OF THE U.S. FEDERAL INCOME TAX LAWS (INCLUDING ANY POTENTIAL FUTURE CHANGES THERETO) TO THEIR PARTICULAR SITUATION, AS WELL AS ANY TAX CONSEQUENCES OF THE PURCHASE, OWNERSHIP AND DISPOSITION OF OUR CLASS A COMMON STOCK ARISING UNDER ANY OTHER TAX LAWS, INCLUDING THE U.S. FEDERAL ESTATE OR GIFT TAX LAWS OR UNDER THE LAWS OF ANY U.S. STATE OR LOCAL OR NON-U.S. TAXING JURISDICTION, OR UNDER ANY APPLICABLE INCOME TAX TREATY.

Non-U.S. Holder Defined

For purposes of this discussion, a "non-U.S. holder" is a beneficial owner of our Class A common stock that is not for U.S. federal income tax purposes a partnership or any of the following:

- an individual who is a citizen or resident of the United States;
- a corporation (or other entity treated as a corporation for U.S. federal income tax purposes) created or organized in or under the laws of the United States, any state thereof or the District of Columbia;
- an estate the income of which is subject to U.S. federal income tax regardless of its source; or
- a trust (i) the administration of which is subject to the primary supervision of a U.S. court and which has one or more "United States persons" (within the meaning of Section 7701(a)(30) of the Code) who have the authority to control all substantial decisions of the trust or (ii) which has made a valid election under applicable U.S. Treasury regulations to be treated as a United States person.

If a partnership (including an entity or arrangement treated as a partnership for U.S. federal income tax purposes) holds our Class A common stock, the tax treatment of a partner in the partnership generally will depend upon the status of the partner or the partnership, the activities of the partnership and certain determinations made at the partner level. Accordingly, we urge partners in partnerships (including entities or arrangements treated as partnerships for U.S. federal income tax purposes) considering the purchase of our Class A common stock to consult with, and rely solely upon, their own tax advisors regarding the U.S. federal income tax considerations of the purchase, ownership and disposition of our Class A common stock by such partnership.

Distributions

Distributions of cash or other property on our Class A common stock, if any, will constitute dividends for U.S. federal income tax purposes to the extent paid from our current or accumulated earnings and profits, as determined under U.S. federal income tax principles. To the extent those distributions exceed our current and accumulated earnings and profits, the distributions will be treated as a non-taxable return of capital to the extent of the non-U.S. holder's tax basis in our Class A common stock (and will reduce tax basis, but not below zero) and thereafter as capital gain from the sale or exchange of such Class A common stock. See "—Gain on Sale or Other Taxable Disposition of Class A Common Stock." Subject to the withholding requirements under FATCA (as defined below) and other than with respect to effectively connected dividends, each of which is discussed below, any distribution treated as a dividend paid to a non-U.S. holder on our Class A common stock generally will be subject to U.S. withholding tax at a rate of 30% of the gross amount of the distribution unless an applicable income tax treaty provides for a lower rate. To receive the benefit of a reduced treaty rate, a non-U.S. holder must provide the applicable withholding agent with a properly executed IRS Form W-8BEN or IRS Form W-8BEN-E (or other applicable or successor form) certifying qualification for the reduced rate.

Any portion of a distribution that is treated as a dividend paid to a non-U.S. holder that is effectively connected with a trade or business conducted by the non-U.S. holder in the United States (and, if required by an applicable income tax treaty, that is treated as attributable to a permanent establishment maintained by the non-U.S. holder in the United States) generally will be taxed on a net income basis at the rates and in the manner generally applicable to United States persons. Such effectively connected dividends will not be subject to U.S. withholding tax if the non-U.S. holder satisfies certain certification requirements by providing the applicable withholding agent with a properly executed IRS Form W-8ECI certifying eligibility for exemption. If the non-U.S. holder is a corporation for U.S. federal income tax purposes, it may also be subject to a branch profits tax (at a 30% rate or such lower rate as specified by an applicable income tax treaty) on its effectively connected earnings and profits (as adjusted for certain items), which will include effectively connected dividends.

Gain on Sale or Other Taxable Disposition of Class A Common Stock

Subject to the discussions below under “—Backup Withholding and Information Reporting” and “—Additional Withholding Requirements under FATCA,” a non-U.S. holder generally will not be subject to U.S. federal income or withholding tax on any gain realized upon the sale or other taxable disposition of our Class A common stock unless:

- the non-U.S. holder is an individual who is present in the United States for a period or periods aggregating 183 days or more during the calendar year in which the sale or disposition occurs and certain other conditions are met;
- the gain is effectively connected with a trade or business conducted by the non-U.S. holder in the United States (and, if required by an applicable income tax treaty, is attributable to a permanent establishment maintained by the non-U.S. holder in the United States); or
- our Class A common stock constitutes a United States real property interest by reason of our status as a United States real property holding corporation (“USRPHC”) for U.S. federal income tax purposes and as a result such gain is treated as effectively connected with a trade or business conducted by the non-U.S. holder in the United States.

A non-U.S. holder described in the first bullet point above will be subject to U.S. federal income tax at a rate of 30% (or such lower rate as specified by an applicable income tax treaty) on the amount of such gain, which generally may be offset by U.S. source capital losses provided the non-U.S. holder has timely filed U.S. federal income tax returns with respect to such losses.

A non-U.S. holder whose gain is described in the second bullet point above or, subject to the exceptions described in the next paragraph, the third bullet point above, generally will be taxed on a net income basis at the rates and in the manner generally applicable to United States persons unless an applicable income tax treaty provides otherwise. If the non-U.S. holder is a corporation for U.S. federal income tax purposes whose gain is described in the second bullet point above, then such gain would also be included in its effectively connected earnings and profits (as adjusted for certain items), which may be subject to a branch profits tax (at a 30% rate or such lower rate as specified by an applicable income tax treaty).

Generally, a corporation is a USRPHC if the fair market value of its United States real property interests equals or exceeds 50% of the sum of the fair market value of its worldwide real property interests and its other assets used or held for use in a trade or business. We believe that we currently are, and expect to remain for the foreseeable future, a USRPHC for U.S. federal income tax purposes. However, as long as our Class A common stock is and continues to be “regularly traded on an established securities market” (within the meaning of the United States Treasury regulations), only a non-U.S. holder that actually or constructively owns, or owned at any time during the shorter of the

five-year period ending on the date of the disposition or the non-U.S. holder's holding period for the Class A common stock, more than 5% of our Class A common stock will be treated as disposing of a United States real property interest and will be taxable on gain realized on the disposition of our Class A common stock as a result of our status as a USRPHC. If our Class A common stock were not considered to be regularly traded on an established securities market, each non-U.S. holder (regardless of the percentage of stock owned) would be treated as disposing of a U.S. real property interest and would be subject to U.S. federal income tax on a taxable disposition of our Class A common stock (as described in the preceding paragraph), and a 15% withholding tax would apply to the gross proceeds from such disposition.

Non-U.S. holders should consult with, and rely solely upon, their own tax advisors with respect to the application of the foregoing rules to their ownership and disposition of our Class A common stock, including regarding potentially applicable income tax treaties that may provide for different rules.

Backup Withholding and Information Reporting

Any dividends paid to a non-U.S. holder must be reported annually to the IRS and to the non-U.S. holder. Copies of these information returns may be made available to the tax authorities in the country in which the non-U.S. holder resides or is established. Payments of dividends to a non-U.S. holder generally will not be subject to backup withholding if the non-U.S. holder establishes an exemption by properly certifying its non-U.S. status on an IRS Form W-8BEN or IRS Form W-8BEN-E (or other applicable or successor form).

Payments of the proceeds from a sale or other disposition by a non-U.S. holder of our Class A common stock effected by or through a U.S. office of a broker generally will be subject to information reporting and backup withholding (at the applicable rate) unless the non-U.S. holder establishes an exemption by properly certifying its non-U.S. status on an IRS Form W-8BEN or IRS Form W-8BEN-E (or other applicable or successor form) and certain other conditions are met. Information reporting and backup withholding generally will not apply to any payment of the proceeds from a sale or other disposition of our Class A common stock effected outside the United States by a non-U.S. office of a broker. However, unless such broker has documentary evidence in its records that the non-U.S. holder is not a United States person and certain other conditions are met, or the non-U.S. holder otherwise establishes an exemption, information reporting will apply to a payment of the proceeds of the disposition of our Class A common stock effected outside the United States by such a broker if it has certain relationships within the United States.

Backup withholding is not an additional tax. Rather, the U.S. federal income tax liability (if any) of persons subject to backup withholding will be reduced by the amount of tax withheld. If backup withholding results in an overpayment of taxes, a refund may be obtained, provided that the required information is timely furnished to the IRS.

Additional Withholding Requirements under FATCA

The Foreign Account Tax Compliance Act (Sections 1471 through 1474 of the Code), and the U.S. Treasury regulations and administrative guidance issued thereunder ("FATCA"), impose a 30% withholding tax on any dividends paid on our Class A common stock and, subject to the proposed U.S. Treasury regulations discussed below, on proceeds from sales or other dispositions of shares of our Class A common stock, if paid to a "foreign financial institution" or a "non-financial foreign entity" (each as defined in the Code) (including, in some cases, when such foreign financial institution or non-financial foreign entity is acting as an intermediary), unless (i) in the case of a foreign financial institution, such institution enters into an agreement with the U.S. government to withhold on certain

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payments, and to collect and provide to the U.S. tax authorities substantial information regarding U.S. account holders of such institution (which includes certain equity and debt holders of such institution, as well as certain account holders that are non-U.S. entities with U.S. owners); (ii) in the case of a non-financial foreign entity, such entity certifies that it does not have any "substantial United States owners" (as defined in the Code) or provides the applicable withholding agent with a certification identifying the direct and indirect substantial United States owners of the entity (in either case, generally on an IRS Form W-8BEN-E); or (iii) the foreign financial institution or non-financial foreign entity otherwise qualifies for an exemption from these rules and provides appropriate documentation (such as an IRS Form W-8BEN-E). Foreign financial institutions located in jurisdictions that have an intergovernmental agreement with the United States governing these rules may be subject to different rules. Under certain circumstances, a holder might be eligible for refunds or credits of such taxes. While gross proceeds from a sale or other disposition of our Class A common stock paid after January 1, 2019 would have originally been subject to withholding under FATCA, proposed U.S. Treasury regulations provide that such payments of gross proceeds do not constitute withholdable payments. Taxpayers may generally rely on these proposed U.S. Treasury regulations until they are revoked or final U.S. Treasury regulations are issued. Non-U.S. holders are encouraged to consult with, and rely solely upon, their own tax advisors regarding the effects of FATCA on an investment in our Class A common stock.

INVESTORS CONSIDERING THE PURCHASE OF OUR CLASS A COMMON STOCK SHOULD CONSULT WITH, AND RELY SOLELY UPON, THEIR OWN TAX ADVISORS REGARDING THE APPLICATION OF THE U.S. FEDERAL INCOME TAX LAWS (INCLUDING ANY POTENTIAL FUTURE CHANGES THERETO) TO THEIR PARTICULAR SITUATIONS AND THE APPLICABILITY AND EFFECT OF ANY OTHER TAX LAWS, INCLUDING U.S. FEDERAL ESTATE AND GIFT TAX LAWS AND ANY U.S. STATE OR LOCAL OR NON-U.S. TAX LAWS, AND TAX TREATIES.

CERTAIN ERISA CONSIDERATIONS

The following is a summary of certain considerations associated with the acquisition and holding of our Class A common stock by employee benefit plans that are subject to Title I of the Employee Retirement Income Security Act of 1974, as amended (“ERISA”), plans, individual retirement accounts and other arrangements that are subject to Section 4975 of the Code or employee benefit plans that are governmental plans (as defined in Section 3(32) of ERISA), certain church plans (as defined in Section 3(33) of ERISA), non-U.S. plans (as described in Section 4(b)(4) of ERISA) or other plans that are not subject to the foregoing but may be subject to provisions under any other federal, state, local, non-U.S. or other laws or regulations that are similar to such provisions of ERISA or the Code (collectively, “Similar Laws”), and entities whose underlying assets are considered to include “plan assets” of any such plan, account or arrangement (each, a “Plan”).

This summary is based on the provisions of ERISA and the Code (and related regulations and administrative and judicial interpretations) as of the date of this registration statement. This summary does not purport to be complete, and no assurance can be given that future legislation, court decisions, regulations, rulings or pronouncements will not significantly modify the requirements summarized below. Any of these changes may be retroactive and may thereby apply to transactions entered into prior to the date of their enactment or release. This discussion is general in nature and is not intended to be all inclusive, nor should it be construed as investment or legal advice.

General Fiduciary Matters

ERISA and the Code impose certain duties on persons who are fiduciaries of a Plan subject to Title I of ERISA or Section 4975 of the Code (an “ERISA Plan”) and prohibit certain transactions involving the assets of an ERISA Plan and its fiduciaries or other interested parties. Under ERISA and the Code, any person who exercises any discretionary authority or control over the administration of an ERISA Plan or the management or disposition of the assets of an ERISA Plan, or who renders investment advice for a fee or other compensation to an ERISA Plan, is generally considered to be a fiduciary of the ERISA Plan.

In considering an investment in our Class A common stock with a portion of the assets of any Plan, a fiduciary should consider the Plan’s particular circumstances and all of the facts and circumstances of the investment and determine whether the acquisition and holding of our Class A common stock is in accordance with the documents and instruments governing the Plan and the applicable provisions of ERISA, the Code or any Similar Law relating to the fiduciary’s duties to the Plan, including, without limitation:

- whether the investment is prudent under Section 404(a)(1)(B) of ERISA and any other applicable Similar Laws;
- whether, in making the investment, the ERISA Plan will satisfy the diversification requirements of Section 404(a)(1)(C) of ERISA and any other applicable Similar Laws;
- whether the investment is permitted under the terms of the applicable documents governing the Plan;
- whether the acquisition or holding of our Class A common stock will constitute a “prohibited transaction” under Section 406 of ERISA or Section 4975 of the Code (please see the discussion under “—Prohibited Transaction Issues” below); and
- whether the Plan will be considered to hold, as plan assets, (i) only our Class A common stock or (ii) an undivided interest in our underlying assets (please see the discussion under “—Plan Asset Issues” below).

Prohibited Transaction Issues

Section 406 of ERISA and Section 4975 of the Code prohibit ERISA Plans from engaging in specified transactions involving plan assets with persons or entities who are “parties in interest,” within the meaning of ERISA, or “disqualified persons,” within the meaning of Section 4975 of the Code, unless an exemption is available. A party in interest or disqualified person who engages in a non-exempt prohibited transaction may be subject to excise taxes and other penalties and liabilities under ERISA and the Code. In addition, the fiduciary of the ERISA Plan that engages in such a non-exempt prohibited transaction may be subject to penalties and liabilities under ERISA and the Code. The acquisition and/or holding of our Class A common stock by an ERISA Plan with respect to which the issuer, the initial purchaser, or a guarantor is considered a party in interest or a disqualified person may constitute or result in a direct or indirect prohibited transaction under Section 406 of ERISA and/or Section 4975 of the Code, unless the investment is acquired and is held in accordance with an applicable statutory, class or individual prohibited transaction exemption.

Because of the foregoing, our Class A common stock should not be acquired or held by any person investing “plan assets” of any Plan, unless such acquisition and holding will not constitute a non-exempt prohibited transaction under ERISA and the Code or a similar violation of any applicable Similar Laws.

Plan Asset Issues

Additionally, a fiduciary of a Plan should consider whether the Plan will, by investing in us, be deemed to own an undivided interest in our assets, with the result that we would become a fiduciary of the Plan and our operations would be subject to the regulatory restrictions of ERISA, including its prohibited transaction rules, as well as the prohibited transaction rules of the Code and any other applicable Similar Laws.

The DOL regulations provide guidance with respect to whether the assets of an entity in which ERISA Plans acquire equity interests would be deemed “plan assets” under some circumstances. Under these regulations, an entity’s assets generally would not be considered to be “plan assets” if, among other things:

(a) the equity interests acquired by ERISA Plans are “publicly offered securities” (as defined in the DOL regulations)—i.e., the equity interests are part of a class of securities that is widely held by 100 or more investors independent of the issuer and each other, are freely transferable, and are either registered under certain provisions of the federal securities laws or sold to the ERISA Plan as part of a public offering under certain conditions;

(b) the entity is an “operating company” (as defined in the DOL regulations)—i.e., it is primarily engaged in the production or sale of a product or service, other than the investment of capital, either directly or through a majority-owned subsidiary or subsidiaries; or

(c) there is no significant investment by “benefit plan investors” (as defined in the DOL regulations)—i.e., immediately after the most recent acquisition by an ERISA Plan of any equity interest in the entity, less than 25% of the total value of each class of equity interest (disregarding certain interests held by persons (other than benefit plan investors) with discretionary authority or control over the assets of the entity or who provide investment advice for a fee (direct or indirect) with respect to such assets, and any affiliates thereof) is held by ERISA Plans, IRAs and certain other Plans (but not including governmental plans, foreign plans and certain church plans), and entities whose underlying assets are deemed to include plan assets by reason of a Plan’s investment in the entity.

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Due to the complexity of these rules and the excise taxes, penalties and liabilities that may be imposed upon persons involved in non-exempt prohibited transactions, it is particularly important that fiduciaries, or other persons considering acquiring and/or holding shares of our common stock on behalf of, or with the assets of, any Plan, consult with their counsel regarding the potential applicability of ERISA, Section 4975 of the Code and any Similar Laws to such investment and whether an exemption would be applicable to the acquisition and holding of our Class A common stock. Purchasers of our Class A common stock have the exclusive responsibility for ensuring that their acquisition and holding of our Class A common stock complies with the fiduciary responsibility rules of ERISA and does not violate the prohibited transaction rules of ERISA, the Code or applicable Similar Laws. The sale of our Class A common stock to a Plan is in no respect a representation by us or any of our affiliates or representatives that such an investment meets all relevant legal requirements with respect to investments by any such Plan or that such investment is appropriate for any such Plan.

UNDERWRITING

We and the underwriters named below have entered into an underwriting agreement with respect to shares of our Class A common stock being offered. Subject to certain conditions, each underwriter has severally agreed to purchase the number of shares of Class A common stock indicated in the following table.

Underwriters	Number of Shares
Goldman Sachs & Co. LLC	
BofA Securities, Inc.	
Piper Sandler & Co.	
Total	

The underwriters are committed to take and pay for all of the shares of Class A common stock being offered, if any are taken, other than the shares covered by the option described below unless and until this option is exercised.

The underwriters have an option to buy up to an additional _____ shares of Class A common stock from us to cover sales by the underwriters of a greater number of shares than the total number in the table above. They may exercise that option for 30 days. If any shares are purchased pursuant to this option, the underwriters will severally purchase shares in approximately the same proportion as set forth in the table above.

Shares sold by the underwriters to the public will initially be offered at the initial public offering price set forth on the cover of this prospectus. Any shares sold by the underwriters to securities dealers may be sold at a discount of up to \$ _____ per share from the initial public offering price. After the initial offering of the shares, the representatives may change the offering price and the other selling terms. The offering of the shares by the underwriters is subject to receipt and acceptance and subject to the underwriters' right to reject any order in whole or in part.

We have agreed to indemnify the several underwriters against certain liabilities, including liabilities under the Securities Act.

The following table provides information regarding the amount of the underwriting discounts and commissions to be paid to the underwriters by us. These amounts are shown assuming both no exercise and full exercise of the underwriters' option to purchase additional shares.

	Per Share	Total Without Option	With Option
Underwriting discounts and commissions paid by us	\$ _____	\$ _____	\$ _____
Proceeds, before expenses, to us	\$ _____	\$ _____	\$ _____

We estimate that the total expenses of the offering, excluding underwriting discounts and commissions, will be approximately \$ _____ million. We have also agreed to reimburse the underwriters for certain of their expenses in an amount up to \$ _____.

The representatives have informed us that the underwriters do not intend to make sales to discretionary accounts.

We, _____ and our officers and directors have agreed with the underwriters, subject to certain exceptions, not to dispose of or hedge any of their Class A common stock or securities convertible into or exchangeable for shares of Class A common stock during the period from the date of this prospectus continuing through the date 180 days after the date of this prospectus, except with

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the prior written consent of Goldman Sachs & Co. LLC. This agreement does not apply to any existing employee benefit plans. See the section titled "Shares Eligible for Future Sale" for a discussion of certain transfer restrictions.

Prior to the offering, there has been no public market for the Class A common stock. The initial public offering price will be negotiated among us and our representatives. Among the factors to be considered in determining the initial public offering price of the Class A common stock, in addition to prevailing market conditions, will be our historical performance, estimates of the business potential and our earnings prospects, an assessment of our management and the consideration of the above factors in relation to market valuation of companies in related businesses.

We intend to apply to list our Class A common stock on NYSE under the symbol "AESI."

Stabilization

In connection with the offering, the underwriters may purchase and sell shares of Class A common stock in the open market. These transactions may include short sales, stabilizing transactions and purchases to cover positions created by short sales. Short sales involve the sale by the underwriters of a greater number of shares than they are required to purchase in the offering, and a short position represents the amount of such sales that have not been covered by subsequent purchases. A "covered short position" is a short position that is not greater than the amount of additional shares for which the underwriters' option described above may be exercised. The underwriters may cover any covered short position by either exercising their option to purchase additional shares or purchasing shares in the open market. In determining the source of shares to cover the covered short position, the underwriters will consider, among other things, the price of shares available for purchase in the open market as compared to the price at which they may purchase additional shares pursuant to the option described above. "Naked" short sales are any short sales that create a short position greater than the amount of additional shares for which the option described above may be exercised. The underwriters must cover any such naked short position by purchasing shares in the open market. A naked short position is more likely to be created if the underwriters are concerned that there may be downward pressure on the price of the Class A common stock in the open market after pricing that could adversely affect investors who purchase in the offering. Stabilizing transactions consist of various bids for or purchases of Class A common stock made by the underwriters in the open market prior to the completion of the offering.

The underwriters may also impose a penalty bid. This occurs when a particular underwriter repays to the underwriters a portion of the underwriting discount received by it because the representatives have repurchased shares sold by or for the account of such underwriter in stabilizing or short covering transactions.

Purchases to cover a short position and stabilizing transactions, as well as other purchases by the underwriters for their own accounts, may have the effect of preventing or retarding a decline in the market price of our stock, and together with the imposition of the penalty bid, may stabilize, maintain or otherwise affect the market price of the Class A common stock. As a result, the price of the Class A common stock may be higher than the price that otherwise might exist in the open market. The underwriters are not required to engage in these activities and may end any of these activities at any time. These transactions may be effected in any trading market.

Neither we nor the underwriters make any representation or prediction as to the effect that the transactions described above may have on the prices of our Class A common stock. These transactions may occur on any trading market. If any of these transactions are commenced, they may be discontinued without notice at any time.

Certain Relationships

Some of the underwriters and their affiliates have engaged in, and may in the future engage in, investment banking and other commercial dealings in the ordinary course of business with us or our affiliates. They have received, or may in the future receive, customary fees and commissions for these transactions.

For example, Goldman Sachs & Co. LLC acted as a joint bookrunner in the initial public offering of Brigham Minerals, Inc., a publicly traded company co-founded by our Executive Chairman, Bud Brigham.

The underwriters and their respective affiliates are full service financial institutions engaged in various activities, which may include sales and trading, commercial and investment banking, advisory, investment management, investment research, principal investment, hedging, market making, brokerage and other financial and non-financial activities and services. Certain of the underwriters and their respective affiliates have provided, and may in the future provide, a variety of these services to the issuer and to persons and entities with relationships with the issuer, for which they received or will receive customary fees and expenses.

In the ordinary course of their various business activities, the underwriters and their respective affiliates, officers, directors and employees may purchase, sell or hold a broad array of investments and actively traded securities, derivatives, loans, commodities, currencies, credit default swaps and other financial instruments for their own account and for the accounts of their customers, and such investment and trading activities may involve or relate to assets, securities and/or instruments of the issuer (directly, as collateral securing other obligations or otherwise) and/or persons and entities with relationships with the issuer. The underwriters and their respective affiliates may also communicate independent investment recommendations, market color or trading ideas and/or publish or express independent research views in respect of such assets, securities or instruments and may at any time hold, or recommend to clients that they should acquire, long and/or short positions in such assets, securities and instruments.

Electronic Prospectus

This prospectus may be made available in electronic format on Internet sites or through other online services maintained by the underwriters or their affiliates. In those cases, prospective investors may view offering terms online and may be allowed to place orders online. Other than this prospectus in electronic format, any information on the underwriters' or their affiliates' websites and any information contained in any other website maintained by the underwriters or any affiliate of the underwriters is not part of this prospectus or the registration statement of which this prospectus forms a part, has not been approved and/or endorsed by us or the underwriters and should not be relied upon by investors.

Notice to Prospective Investors in Canada (Alberta, British Columbia, Manitoba, Ontario and Québec Only)

This document constitutes an "exempt offering document" as defined in and for the purposes of applicable Canadian securities laws. No prospectus has been filed with any securities commission or similar regulatory authority in Canada in connection with the offer and sale of shares of Class A common stock described herein (the "Securities"). No securities commission or similar regulatory authority in Canada has reviewed or in any way passed upon this document or on the merits of the Securities and any representation to the contrary is an offence.

Canadian investors are advised that this document has been prepared in reliance on section 3A.3 of National Instrument 33-105 Underwriting Conflicts (“NI 33-105”). Pursuant to section 3A.3 of NI 33-105, this document is exempt from the requirement that the issuer and the underwriters in the offering provide Canadian investors with certain conflicts of interest disclosure pertaining to “connected issuer” and/or “related issuer” relationships as may otherwise be required pursuant to subsection 2.1(1) of NI 33-105.

Resale Restrictions

The offer and sale of the Securities in Canada are being made on a private placement basis only and are exempt from the requirement that the issuer prepare and file a prospectus under applicable Canadian securities laws. Any resale of Securities acquired by a Canadian investor in this offering must be made in accordance with applicable Canadian securities laws, which may vary depending on the relevant jurisdiction, and which may require resales to be made in accordance with Canadian prospectus requirements, a statutory exemption from the prospectus requirements, in a transaction exempt from the prospectus requirements or otherwise under a discretionary exemption from the prospectus requirements granted by the applicable local Canadian securities regulatory authority. These resale restrictions may under certain circumstances apply to resales of the Securities outside of Canada.

Representations of Purchasers

Each Canadian investor who purchases the Securities will be deemed to have represented to the issuer, the underwriters and each dealer from whom a purchase confirmation is received, as applicable, that the investor (i) is purchasing as principal, or is deemed to be purchasing as principal in accordance with applicable Canadian securities laws, for investment only and not with a view to resale or redistribution; (ii) is an “accredited investor” as such term is defined in section 1.1 of National Instrument 45-106 *Prospectus Exemptions* or, in Ontario, as such term is defined in section 73.3(1) of the *Securities Act* (Ontario); and (iii) is a “permitted client” as such term is defined in section 1.1 of National Instrument 31-103 *Registration Requirements, Exemptions and Ongoing Registrant Obligations*.

Taxation and Eligibility for Investment

This prospectus does not address any Canadian tax considerations. No representation or warranty is hereby made as to the tax consequences to a resident, or deemed resident, of Canada of an investment in the Securities or with respect to the eligibility of the Securities for investment by such investor under relevant Canadian federal and provincial legislation and regulations.

Rights of Action for Damages or Rescission

Securities legislation in certain provinces or territories of Canada may provide a purchaser with remedies for rescission or damages if this prospectus (including any amendment thereto) contains a misrepresentation, provided that the remedies for rescission or damages are exercised by the purchaser within the time limit prescribed by the securities legislation of the purchaser’s province or territory. The purchaser should refer to any applicable provisions of the securities legislation of the purchaser’s province or territory for particulars of these rights or consult with a legal advisor.

Personal Information

We and the representatives hereby notify prospective Canadian purchasers that: (a) we may be required to provide personal information pertaining to the purchaser as required to be disclosed in

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Schedule I of Form 45-106F1 under NI 45-106 (including its name, address, telephone number, email address, if provided, and the number and type of securities purchased, the total purchase price paid for such securities, the date of the purchase and specific details of the prospectus exemption relied upon under applicable securities laws to complete such purchase) ("personal information"), which Form 45-106F1 may be required to be filed by us under NI 45-106, (b) such personal information may be delivered to the securities regulatory authority or regulator in accordance with NI 45-106, (c) such personal information is being collected indirectly by the securities regulatory authority or regulator under the authority granted to it under the securities legislation of the applicable jurisdiction, (d) such personal information is collected for the purposes of the administration and enforcement of the securities legislation of the applicable jurisdiction, and (e) the purchaser may contact the applicable securities regulatory authority or regulator by way of the contact information provided in Schedule 2 to Form 45-106F1. Prospective Canadian purchasers that purchase securities in this offering will be deemed to have authorized the indirect collection of the personal information by each applicable securities regulatory authority or regulator, and to have acknowledged and consented to such information being disclosed to the Canadian securities regulatory authority or regulator, and to have acknowledged that such information may become available to the public in accordance with requirements of applicable Canadian laws.

Notice to Prospective Investors in the European Economic Area

In relation to each Member State of the European Economic Area (each a Member State), no Class A common stock has been offered or will be offered pursuant to the offering to the public in that Member State prior to the publication of a prospectus in relation to our Class A common stock which has been approved by the competent authority in that Member State or, where appropriate, approved in another Member State and notified to the competent authority in that Member State, all in accordance with the Prospectus Regulation, except that offers of shares may be made to the public in that Member State at any time under the following exemptions under the Prospectus Regulation:

(a) to any legal entity which is a qualified investor as defined in the Prospectus Regulation;

(b) by the underwriters to fewer than 150 natural or legal persons (other than qualified investors as defined in the Prospectus Regulation), subject to obtaining the prior written consent of the representatives for any such offer; or

(c) in any other circumstances falling within Article 1(4) of the Prospectus Regulation, provided that no such offer of Class A common stock shall result in a requirement for us or any underwriter to publish a prospectus pursuant to Article 3 of the Prospectus Regulation or supplement a prospectus pursuant to Article 23 of the Prospectus Regulation.

Each person in a Member State who initially acquires any Class A common stock or to whom any offer is made will be deemed to have represented, acknowledged, and agreed with us and the representatives that it is a qualified investor within the meaning of the Prospectus Regulation.

In the case of any Class A common stock being offered to a financial intermediary as that term is used in Article 5(1) of the Prospectus Regulation, each such financial intermediary will be deemed to have represented, acknowledged, and agreed that the Class A common stock acquired by it in the offer have not been acquired on a non-discretionary basis on behalf of, nor have they been acquired with a view to their offer or resale to, persons in circumstances which may give rise to an offer to the public other than their offer or resale in a Member State to qualified investors, in circumstances in which the prior written consent of the representatives has been obtained to each such proposed offer or resale.

We, the underwriters and their affiliates will rely upon the truth and accuracy of the foregoing representations, acknowledgments, and agreements.

For the purposes of this provision, the expression an “offer to the public” in relation to any Class A common stock in any Member State means the communication in any form and by any means of sufficient information on the terms of the offer and any Class A common stock to be offered so as to enable an investor to decide to purchase or subscribe for our Class A common stock, and the expression “Prospectus Regulation” means Regulation (EU) 2017/1129.

Additional Notice to Prospective Investors in the United Kingdom

No shares have been offered or will be offered pursuant to the offering to the public in the United Kingdom prior to the publication of a prospectus in relation to the shares which has been approved by the Financial Conduct Authority, except that the shares may be offered to the public in the United Kingdom at any time:

(a) to any legal entity which is a qualified investor as defined under Article 2 of the UK Prospectus Regulation;

(b) to fewer than 150 natural or legal persons (other than qualified investors as defined under Article 2 of the UK Prospectus Regulation), subject to obtaining the prior consent of the representatives for any such offer; or

(c) in any other circumstances falling within Section 86 of the FSMA,

provided that no such offer of the shares to the public in the United Kingdom shall require us or any underwriter to publish a prospectus pursuant to Section 85 of the FSMA or supplement a prospectus pursuant to Article 23 of the UK Prospectus Regulation. For the purposes of this provision, the expression an “offer to the public” in relation to the shares in the United Kingdom means the communication in any form and by any means of sufficient information on the terms of the offer and any shares to be offered so as to enable an investor to decide to purchase or subscribe for any shares and the expression “UK Prospectus Regulation” means Regulation (EU) 2017/1129 as it forms part of domestic law by virtue of the European Union (Withdrawal) Act 2018. (a) it has only communicated or caused to be communicated and will only communicate or cause to be communicated an invitation or inducement to engage in investment activity (within the meaning of Section 21 of the Financial Services and Markets Act 2000 (FSMA)) received by it in connection with the issue or sale of our Class A common stock in circumstances in which Section 21(1) of the FSMA does not apply to us.

Notice to Prospective Investors in Germany

This prospectus has not been prepared in accordance with the requirements for a securities or sales prospectus under the German Securities Prospectus Act (*Wertpapierprospektgesetz*), the German Sales Prospectus Act (*Verkaufsprospektgesetz*), or the German Investment Act (*Investmentgesetz*). Neither the German Federal Financial Services Supervisory Authority (*Bundesanstalt für Finanzdienstleistungsaufsicht—BaFin*) nor any other German authority has been notified of the intention to distribute our Class A common stock in Germany. Consequently, shares of the Class A common stock may not be distributed in Germany by way of public offering, public advertisement or in any similar manner and this prospectus and any other document relating to this offering, as well as information or statements contained therein, may not be supplied to the public in Germany or used in connection with any offer for subscription of shares of the Class A common stock to the public in Germany or any other means of public marketing. Shares of Class A common stock is

being offered and sold in Germany only to qualified investors which are referred to in Section 3 paragraph 2 no. 1, in connection with Section 2 no. 6, of the German Securities Prospectus Act, Section 8f paragraph 2 no. 4 of the German Sales Prospectus Act, and in Section 2 paragraph 11 sentence 2 no. 1 of the German Investment Act. This prospectus is strictly for use of the person who has received it. It may not be forwarded to other persons or published in Germany.

Notice to Prospective Investors in Switzerland

This document is not intended to constitute an offer or solicitation to purchase or invest in the securities. The securities may not be publicly offered, directly or indirectly, in Switzerland within the meaning of the Swiss Financial Services Act ("FinSA") and no application has or will be made to admit the securities to trading on any trading venue (exchange or multilateral trading facility) in Switzerland. Neither this document nor any other offering or marketing material relating to the securities constitutes a prospectus pursuant to the FinSA, and neither this document nor any other offering or marketing material relating to the securities may be publicly distributed or otherwise made publicly available in Switzerland.

Neither this document nor any other offering or marketing material relating to the offering, us or the securities have been or will be filed with or approved by any Swiss regulatory authority. In particular, this document will not be filed with, and the offer of securities will not be supervised by, the Swiss Financial Market Supervisory Authority FINMA (FINMA), and the offer of securities has not been and will not be authorized under the Swiss Federal Act on Collective Investment Schemes ("CISA"). The investor protection afforded to acquirers of interests in collective investment schemes under the CISA does not extend to acquirers of the securities.

Notice to Prospective Investors in Hong Kong

The shares may not be offered or sold in Hong Kong by means of any document other than (i) in circumstances which do not constitute an offer to the public within the meaning of the Companies (Winding Up and Miscellaneous Provisions) Ordinance (Cap. 32 of the Laws of Hong Kong) ("Companies (Winding Up and Miscellaneous Provisions) Ordinance") or which do not constitute an invitation to the public within the meaning of the Securities and Futures Ordinance (Cap. 571 of the Laws of Hong Kong) ("Securities and Futures Ordinance"), or (ii) to "professional investors" as defined in the Securities and Futures Ordinance and any rules made thereunder, or (iii) in other circumstances which do not result in the document being a "prospectus" as defined in the Companies (Winding Up and Miscellaneous Provisions) Ordinance, and no advertisement, invitation or document relating to the shares may be issued or may be in the possession of any person for the purpose of issue (in each case whether in Hong Kong or elsewhere), which is directed at, or the contents of which are likely to be accessed or read by, the public in Hong Kong (except if permitted to do so under the securities laws of Hong Kong) other than with respect to shares which are or are intended to be disposed of only to persons outside Hong Kong or only to "professional investors" in Hong Kong as defined in the Securities and Futures Ordinance and any rules made thereunder.

Notice to Prospective Investors in Singapore

This prospectus has not been registered as a prospectus with the Monetary Authority of Singapore. Accordingly, this prospectus and any other document or material in connection with the offer or sale, or invitation for subscription or purchase, of the shares may not be circulated or distributed, nor may the shares be offered or sold, or be made the subject of an invitation for subscription or purchase, whether directly or indirectly, to persons in Singapore other than (i) to an

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institutional investor (as defined under Section 4A of the Securities and Futures Act, Chapter 289 of Singapore (the "SFA")) under Section 274 of the SFA, (ii) to a relevant person (as defined in Section 275(2) of the SFA) pursuant to Section 275(1) of the SFA, or any person pursuant to Section 275(1A) of the SFA, and in accordance with the conditions specified in Section 275 of the SFA or (iii) otherwise pursuant to, and in accordance with the conditions of, any other applicable provision of the SFA, in each case subject to conditions set forth in the SFA.

Where the shares are subscribed or purchased under Section 275 of the SFA by a relevant person which is a corporation (which is not an accredited investor (as defined in Section 4A of the SFA)) the sole business of which is to hold investments and the entire share capital of which is owned by one or more individuals, each of whom is an accredited investor, the securities (as defined in Section 239(1) of the SFA) of that corporation shall not be transferable for 6 months after that corporation has acquired the shares under Section 275 of the SFA except: (1) to an institutional investor under Section 274 of the SFA or to a relevant person (as defined in Section 275(2) of the SFA), (2) where such transfer arises from an offer in that corporation's securities pursuant to Section 275(1A) of the SFA, (3) where no consideration is or will be given for the transfer, (4) where the transfer is by operation of law, (5) as specified in Section 276(7) of the SFA, or (6) as specified in Regulation 32 of the Securities and Futures (Offers of Investments) (Shares and Debentures) Regulations 2005 of Singapore ("Regulation 32").

Where the shares are subscribed or purchased under Section 275 of the SFA by a relevant person which is a trust (where the trustee is not an accredited investor (as defined in Section 4A of the SFA)) whose sole purpose is to hold investments and each beneficiary of the trust is an accredited investor, the beneficiaries' rights and interest (howsoever described) in that trust shall not be transferable for 6 months after that trust has acquired the shares under Section 275 of the SFA except: (1) to an institutional investor under Section 274 of the SFA or to a relevant person (as defined in Section 275(2) of the SFA), (2) where such transfer arises from an offer that is made on terms that such rights or interest are acquired at a consideration of not less than \$200,000 (or its equivalent in a foreign currency) for each transaction (whether such amount is to be paid for in cash or by exchange of securities or other assets), (3) where no consideration is or will be given for the transfer, (4) where the transfer is by operation of law, (5) as specified in Section 276(7) of the SFA, or (6) as specified in Regulation 32.

Notice to Prospective Investors in Japan

The securities have not been and will not be registered under the Financial Instruments and Exchange Act of Japan (Act No. 25 of 1948, as amended), or the FIEA. The securities may not be offered or sold, directly or indirectly, in Japan or to or for the benefit of any resident of Japan (including any person resident in Japan or any corporation or other entity organized under the laws of Japan) or to others for reoffering or resale, directly or indirectly, in Japan or to or for the benefit of any resident of Japan, except pursuant to an exemption from the registration requirements of the FIEA and otherwise in compliance with any relevant laws and regulations of Japan.

LEGAL MATTERS

The validity of our Class A common stock offered by this prospectus will be passed upon for us by Vinson & Elkins L.L.P., Austin, Texas. The underwriters have been represented by Latham & Watkins LLP, Austin, Texas.

EXPERTS

The consolidated financial statements of our predecessor at and for the years ended December 31, 2021 and December 31, 2020, appearing in this Prospectus and Registration Statement have been audited by Ernst & Young LLP, independent registered public accounting firm, as set forth in their reports thereon appearing elsewhere herein, and are included in reliance upon such reports given on the authority of such firm as experts in accounting and auditing.

The balance sheet of Atlas Energy Solutions Inc. as of February 3, 2022, appearing in this Prospectus and Registration Statement has been audited by Ernst & Young LLP, independent registered public accounting firm, as set forth in their report thereon appearing elsewhere herein, and is included in reliance upon such report given on the authority of such firm as experts in accounting and auditing.

The information appearing in this prospectus concerning estimates of our proven mineral reserves was derived from the report of John T. Boyd Company, independent mining engineers and geologists, and has been included herein on the authority of John T. Boyd Company as experts with respect to the matters covered by such report and in giving such report.

WHERE YOU CAN FIND MORE INFORMATION

We have filed with the SEC a registration statement on Form S-1 (including the exhibits, schedules and amendments thereto) under the Securities Act, with respect to the shares of our Class A common stock offered hereby. This prospectus does not contain all of the information set forth in the registration statement and the exhibits and schedules thereto. For further information with respect to us and the Class A common stock offered hereby, we refer you to the registration statement and the exhibits and schedules filed therewith. Statements contained in this prospectus as to the contents of any contract, agreement or any other document are summaries of the material terms of such contract, agreement or other document. With respect to each of these contracts, agreements or other documents filed as an exhibit to the registration statement, reference is made to the exhibits for a more complete description of the matter involved. The SEC maintains a website that contains reports, proxy and information statements and other information regarding registrants that file electronically with the SEC. The address of the SEC's website is www.sec.gov. A copy of the registration statement, of which this prospectus forms a part, and the exhibits and schedules thereto may be obtained from the SEC's website.

As a result of this offering, we will become subject to full information reporting requirements of the Exchange Act. We will fulfill our obligations with respect to such requirements by filing periodic reports and other information with the SEC. We intend to furnish our stockholders with annual reports containing financial statements certified by an independent public accounting firm.

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the members and Board of Managers of Atlas Sand Company, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Atlas Sand Company, LLC (the Company) as of December 31, 2021 and 2020, the related consolidated statements of operations, members' equity and cash flows for the years then ended and the related notes (collectively referred to as the "consolidated financial statements"). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company at December 31, 2021 and 2020, and the results of its operations and its cash flows for the years then ended in conformity with U.S. generally accepted accounting principles.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB and in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

We have served as the Company's auditor since 2017.

/s/ Ernst & Young LLP

Austin, Texas

March 15, 2022

**ATLAS SAND COMPANY, LLC
CONSOLIDATED BALANCE SHEETS**

(In thousands, except share data)

	December 31,	
	2021	2020
Assets		
Current assets:		
Cash and cash equivalents	\$ 40,401	\$ 36,072
Accounts receivable	29,135	11,509
Accounts receivable—related parties	283	95
Inventories	3,199	2,834
Spare part inventories	7,207	6,590
Prepaid expenses and other current assets	4,048	1,539
Total current assets	84,273	58,639
Property, plant and equipment, net	458,317	461,090
Deferred financing costs	436	577
Other long-term and intangible assets	824	1,436
Total assets	\$ 543,850	\$ 521,742
Liabilities & Members' Equity		
Current liabilities:		
Accounts payable	\$ 12,180	\$ 5,484
Accounts payable—related parties	617	137
Accrued liabilities	9,153	4,305
Current portion of long-term debt	15,563	35,171
Deferred revenues	2,000	—
Other current liabilities	1,125	969
Total current liabilities	40,638	46,066
Long-term debt, net of discount and deferred financing costs	159,712	134,844
SBA Loan	—	4,413
Long-term portion of capital lease obligations	308	454
Deferred tax liabilities	1,908	1,548
Asset retirement obligation	1,179	1,116
Other long-term liabilities	1,408	1,604
Total liabilities	205,153	190,045
Members' equity:		
Class A units, 316,273,129 and 313,700,596 units outstanding as of December 31, 2021 and December 31, 2020, respectively	276,273	273,701
Class C units, 94,639,647 and 84,598,601 units outstanding as of December 31, 2021 and December 31, 2020, respectively	94,640	84,599
Class D units, 45,492,305 units outstanding as of December 31, 2021 and December 31, 2020	36,225	36,225
Class P units, 83,833 and 81,667 units outstanding as of December 31, 2021 and December 31, 2020, respectively	—	—
Unit-based compensation	19,701	19,572
Other capital	(882)	(882)
Accumulated deficit	(87,260)	(81,518)
Total members' equity	338,697	331,697
Total liabilities and members' equity	\$ 543,850	\$ 521,742

The accompanying notes are an integral part of these financial statements

ATLAS SAND COMPANY, LLC
CONSOLIDATED STATEMENTS OF OPERATIONS
(In thousands)

	For the Years Ended	
	December 31,	
	2021	2020
Product sales	\$ 142,519	\$ 80,527
Service sales	29,885	31,245
Total sales	172,404	111,772
Cost of sales (excluding depreciation, depletion and accretion expense)	84,656	73,118
Depreciation, depletion and accretion expense	23,681	20,887
Gross profit	64,067	17,767
Selling, general and administrative expense	17,071	17,743
Impairment of long-lived assets	—	1,250
Operating income (loss)	46,996	(1,226)
Interest expense, net	(42,198)	(32,819)
Other income (loss)	291	(25)
Income (loss) before income taxes	5,089	(34,070)
Income tax expense	831	372
Net income (loss)	<u>\$ 4,258</u>	<u>\$ (34,442)</u>

The accompanying notes are an integral part of these financial statements

ATLAS SAND COMPANY, LLC
CONSOLIDATED STATEMENTS OF CASH FLOWS

(In thousands)

	For the Years Ended December 31,	
	2021	2020
Operating activities:		
Net income (loss)	\$ 4,258	\$ (34,442)
Adjustments to reconcile net income (loss) to net cash provided by operating activities:		
Depreciation, depletion and accretion expense	24,604	21,579
Impairment of long-lived assets	—	1,250
Loss on extinguishment of debt	11,922	—
Loss on disposal of assets	—	118
Amortization of debt discount	7,320	8,110
Amortization of deferred financing costs	739	791
Unit-based compensation expense	129	2,545
Deferred tax liabilities	360	372
Interest paid-in-kind through issuance of additional term loans	3,039	11,794
Commodity derivatives gain	(55)	—
Premiums paid on commodity derivatives	(105)	—
Repayment of paid-in-kind interest borrowings	(22,233)	—
Changes in operating assets and liabilities:		
Accounts receivable	(17,626)	13,466
Accounts receivable - related parties	(188)	49
Inventories	(364)	1,031
Spare part inventories	(617)	1,631
Prepaid expenses and other current assets	(1,175)	216
Other long-term and intangible assets	(596)	(66)
Accounts payable	5,744	(11,721)
Accounts payable – related parties	480	127
Deferred revenue	2,000	—
Accrued liabilities and other liabilities	3,720	(4,364)
Net cash provided by operating activities	21,356	12,486
Investing activities:		
Purchases of property, plant and equipment	(19,371)	(9,532)
Net cash used in investing activities	(19,371)	(9,532)
Financing activities:		
Proceeds from equity issuances	12,613	—
Proceeds from warrant exercises	—	25
Proceeds from term loan borrowings	178,200	15,000
Payments on term loan borrowings	(172,872)	(7,291)
Debt prepayment and extinguishment cost	(4,514)	—
Proceeds from SBA Loan	—	4,413
Issuance costs associated with debt financing	(660)	—
Payments under capital leases	(423)	(318)
Member distributions	(10,000)	(3)
Net cash provided by financing activities	2,344	11,826
Net increase in cash and cash equivalents	4,329	14,780
Cash and cash equivalents, beginning of period	36,072	21,292
Cash and cash equivalents, end of period	\$ 40,401	\$ 36,072
Supplemental cash flow information		
Cash paid during the period for:		
Interest	\$ 19,155	\$ 12,106
Taxes	\$ 14	\$ —
Non-cash items:		
Property, plant and equipment in accounts payable and accrued liabilities	\$ 2,551	\$ 440
Issuance of warrants	\$ —	\$ 2,154

The accompanying notes are an integral part of these financial statements

ATLAS SAND COMPANY, LLC
CONSOLIDATED STATEMENTS OF MEMBERS' EQUITY
(In thousands)

	Class A		Class C		Class D		Class P		Unit-Based Compensation	Other Capital	Accumulated Deficit	Total Members' Equity
	Units	Value	Units	Value	Units	Value	Units	Value				
Balance at December 31, 2019	313,701	\$273,701	84,599	\$84,599	42,977	\$34,046	52	\$—	\$ 17,027	\$ —	\$ (47,073)	\$ 362,300
Issuance of class D units	—	—	—	—	2,515	2,154	—	—	—	—	—	2,154
Issuance of class P units	—	—	—	—	—	—	30	—	—	—	—	—
Member distributions	—	—	—	—	—	—	—	—	—	—	(3)	(3)
Unit-based compensation expense	—	—	—	—	—	—	—	—	2,545	—	—	2,545
Proceeds from warrant exercises	—	—	—	—	—	25	—	—	—	—	—	25
Deferred tax liabilities	—	—	—	—	—	—	—	—	—	(882)	—	(882)
Net loss	—	—	—	—	—	—	—	—	—	—	(34,442)	(34,442)
Balance at December 31, 2020	313,701	\$273,701	84,599	\$84,599	45,492	\$36,225	82	\$—	\$ 19,572	\$ (882)	\$ (81,518)	\$ 331,697
Issuance of class A units	2,572	2,572	—	—	—	—	—	—	—	—	—	2,572
Issuance of class C units	—	—	10,041	10,041	—	—	—	—	—	—	—	10,041
Issuance of class P units	—	—	—	—	—	—	2	—	—	—	—	—
Member distributions	—	—	—	—	—	—	—	—	—	—	(10,000)	(10,000)
Unit-based compensation expense	—	—	—	—	—	—	—	—	129	—	—	129
Net Income	—	—	—	—	—	—	—	—	—	—	4,258	4,258
Balance at December 31, 2021	<u>316,273</u>	<u>\$276,273</u>	<u>94,640</u>	<u>\$94,640</u>	<u>45,492</u>	<u>\$36,225</u>	<u>84</u>	<u>\$—</u>	<u>\$ 19,701</u>	<u>\$ (882)</u>	<u>\$ (87,260)</u>	<u>\$ 338,697</u>

The accompanying notes are an integral part of these financial statements

ATLAS SAND COMPANY, LLC
NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Note 1—Business and Organization

Atlas Sand Company, LLC (the “Company”) is a Delaware limited liability company formed on April 20, 2017. The Company is a pure-play, low-cost producer of high-quality, locally sourced 100 mesh and 40/70 raw sand, used as a proppant during the well completion process, necessary to facilitate the recovery of hydrocarbons from oil and natural gas wells, exclusively in the Permian Basin. One hundred percent of the Company’s sand reserves are located in Winkler and Ward Counties, Texas, and operations consist of proppant production and processing facilities, including one facility near Kermit, Texas (“the Kermit facility”) and a second facility near Monahans, Texas (“the Monahans facility”).

The Company sells product and services primarily to oil and natural gas exploration and production companies and oilfield service companies either under supply agreements or through spot sales in the open market. The Company also offers complete mine to wellsite proppant logistics solutions.

The Company is controlled by Atlas Sand Management Company, LLC (“ASMC”). The Company also has several wholly owned subsidiaries, which include Atlas Sand Employee Company, LLC; Atlas OLC Employee Company, LLC; Atlas Construction Employee Company, LLC; Atlas Sand Employee Holding Company, LLC; Atlas Sand Construction, LLC; OLC Kermit, LLC; and OLC Monahans, LLC. All subsidiaries are included in the consolidated financial statements of the Company.

Note 2—Summary of Significant Accounting Policies

Basis of Presentation

The accompanying consolidated financial statements (the “Financial Statements”) have been prepared in accordance with generally accepted accounting principles in the United States of America (“U.S. GAAP”). All adjustments necessary for a fair presentation of the Financial Statements have been included. Such adjustments are of a normal, recurring nature.

The Company has evaluated events occurring after the balance sheet date as possible subsequent events through March 15, 2022. Any material subsequent events that occurred during this time have been properly recognized or disclosed in the financial statements.

Consolidation

The Financial Statements include the accounts of the Company and wholly owned subsidiaries. All intercompany transactions and accounts have been eliminated in consolidation.

Use of Estimates

The preparation of the Financial Statements in conformity with U.S. GAAP requires management to make estimates, judgments and assumptions that affect the amounts reported in the financial statements and accompanying notes. The Company bases its estimates on historical experience and on various assumptions that are believed to be reasonable under the circumstances. Actual results could differ from those estimates.

ATLAS SAND COMPANY, LLC
NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Cash and cash equivalents

Cash and cash equivalents consist of all highly liquid investments that are readily convertible into cash and have original maturities of three months or less when purchased. The Company places cash deposits with high-credit-quality financial institutions. At times, cash may be uninsured or in deposit accounts that exceed or are not covered under the Federal Deposit Insurance Corporation limit.

Concentrations of Credit Risk

Throughout 2021 and 2020, the Company has maintained cash balances on deposit and time deposits with financial institutions in excess of federally insured amounts; however, all these financial institutions hold an investment-grade rating by one or more major rating agencies.

For the year ended December 31, 2021, one customer comprised 13% of the Company's sales. For the year ended December 31, 2020, two customers comprised 29% and 10% of the Company's sales, respectively.

Accounts Receivable

Accounts receivable are recorded at cost when earned and represent claims against third parties that will be settled in cash. The carrying value of the Company's receivables, net of allowance for doubtful accounts, represents the estimated collectable amount. If events or changes in circumstances indicate specific receivable balances may be impaired, further consideration is given to the Company's ability to collect those balances and the allowance is adjusted accordingly. Past-due receivable balances are written off when the Company's internal collection efforts have been unsuccessful in collecting the amounts due.

The Company performs credit evaluations of new customers and sometimes require deposits and prepayments, to mitigate credit risk. When it is probable that all or part of an outstanding balance will not be collected, the Company establishes an allowance for doubtful accounts. The Company recognized \$0.1 million of bad debt expense during the year ended December 31, 2021. During the year ended December 31, 2021, the Company determined the bad debt was not collectable and the allowance for doubtful accounts was written off. The Company did not recognize bad debt expense during the year ended December 31, 2020. As of December 31, 2021 and 2020, there was no allowance for doubtful accounts.

As of December 31, 2021, three customers represented 13%, 11% and 10% of the Company's outstanding accounts receivable balance, respectively. As of December 31, 2020, one customer represented 13% of the Company's outstanding accounts receivable balance.

Accounts Receivable—Related Parties

These amounts represent reimbursement of vendor payments from related parties and outstanding billings with a customer.

Inventories

Inventories include raw sand stockpiles, in-process product, and finished product available for shipment. Inventories are valued at the lower of cost or net realizable value. Cost is determined using a weighted average cost method. Production costs include direct excavation costs, production personnel and benefits costs, processing costs, rental equipment costs, other costs directly attributable to plant operations, depreciation and depletion.

ATLAS SAND COMPANY, LLC
NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Spare Part Inventories

Spare part inventories include critical spares, materials and supplies. Spare part inventories are valued at the lower of cost or net realizable value. Cost is determined using a weighted average cost method. For the year ended December 31, 2021, the Company recognized \$0.1 million of spare parts inventory reserve. For the year ended December 31, 2020, no spare parts inventory reserve was deemed necessary.

Prepaid Expenses and Other Current Assets

Prepaid expenses consist primarily of prepaid software fees, delay rental payments on leased land, insurance, trade show fees and sales events. These expenses are recognized over the contract period as events occur or when the future benefit is realized. As of December 31, 2021 and 2020, prepaid expenses were \$2.7 million and \$1.5 million, respectively. Other current assets consist of certain short-term supplier deposits for leased equipment, which were \$1.2 million and de minimis as of December 31, 2021 and 2020, respectively and commodity derivative instruments. The Company has entered into commodity derivative instruments to reduce the effect of price changes on a portion of the Company's future natural gas usage at the facilities. The commodity derivative instruments are measured at fair value using Level 2 inputs and are included in prepaid expenses and other current assets on the consolidated balance sheets. For the year ended December 31, 2021, the current derivative asset was \$0.2 million. There was no commodity derivative instrument activity for the year ended December 31, 2020. The Company has not designated any of the derivative contracts as fair value or cash flow hedges. Therefore, the Company does not apply hedge accounting to the commodity derivative instruments. Net gains and losses on commodity derivatives instruments are recorded based on the changes in the fair values of the derivative instruments and are included in other income (loss) on the consolidated statements of operations. For the year ended December 31, 2021, net gains on commodity derivatives instruments were \$0.1 million. The Company's cash flow is only impacted when the actual settlements under the commodity derivative contracts result in making or receiving a payment to or from the counterparty. These settlements under the commodity derivative contracts are reflected as operating activities in the Company's consolidated statements of cash flows.

Any premiums paid on derivative contracts are capitalized as part of the derivative assets or derivative liabilities, as appropriate, at the time the premiums are paid. Premium payments are reflected in cash flows from operating activities in the Company's consolidated statements of cash flows. Over time, as the derivative contracts settle, the differences between the cash received and the premiums paid or fair value of contracts acquired are recognized in net gains or losses on commodity derivative contracts, and the cash received is reflected in cash flows from operating activities in the Company's consolidated statements of cash flows.

The Company's valuation estimate takes into consideration the counterparties' credit worthiness, the Company's credit worthiness, and the time value of money. The consideration of these factors result in an estimated exit-price for each derivative asset or liability under a market place participant's view. Management believes that this approach provides a reasonable, non-biased, verifiable, and consistent methodology for valuing commodity derivative instruments.

Other Long-Term and Intangible Assets

Other long-term assets consist of long-term supplier deposits associated with equipment rental and office lease agreements. Intangible assets consist of internal-use software. The Company applies the provisions of Accounting Standards Codification ("ASC") 350, Intangibles-Goodwill and Other.

ATLAS SAND COMPANY, LLC
NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Costs associated with the acquisition of an internal-use software are capitalized when incurred and amortized over the estimated useful life of the license or application, which is generally one to five years. For the years ended December 31, 2021 and 2020, the Company recorded \$0.2 million and \$0.1 million of capitalized internal-use software, respectively. The Company recognized de minimis amortization for the year ended December 31, 2021. The Company did not recognize amortization for the year ended December 31, 2020, as the assets were not yet placed into service.

Property, Plant and Equipment, Including Depreciation and Depletion

Property, plant and equipment are recorded at cost and depreciated over their estimated useful lives using either the straight-line method or the units of production method. Construction in progress is comprised of assets which have not been placed into service and is not depreciated until the related assets or improvements are ready to be placed into service.

Interest incurred during the construction of plant facilities was capitalized. Capitalized interest was recorded within plant facilities associated with productive, depletable properties, until the plant facilities were placed into service, and is being amortized using the units of production method. The Company did not capitalize interest for the years ended December 31, 2021 and 2020.

Costs of improvements that extend economic life or improve service potential are capitalized and depreciated over the remaining useful life of the asset, with routine repairs and maintenance expensed as incurred.

Fixed assets, other than plant facilities associated with productive, depletable properties, are carried at historical cost and are depreciated using the straight-line method over the estimated useful lives of the assets as follows:

Plant facilities and equipment	3 – 40 years
Furniture and office equipment	3 – 15 years
Asset retirement obligation	50 years
Computer and network equipment	3 – 7 years
Buildings and leasehold improvements	31 months – 40 years

Mine development project costs are capitalized once the deposit is classified as a proven and probable reserve. Mine development costs include engineering, mineralogical studies, drilling and other related costs to develop the mine and remove the overburden to initially expose the mineral and allow for the construction of an access way. Exploration costs are expensed as incurred and classified as exploration expense.

Mining property and development costs are amortized using the units of production method on estimated recoverable tonnage, which equals estimated proven and probable reserves. The impact to reserve estimates is recognized on a prospective basis. Drilling and related costs are capitalized for deposits where proven and probable reserves exist. These activities are directed at obtaining additional information on the deposit or converting non-reserve minerals to proven and probable reserves, with the benefit being realized over a period greater than one year.

The Company reviews property, plant, and equipment for impairment annually or whenever events or changes in circumstances indicate that the carrying value of such assets may not be recoverable. If such a review should indicate that the carrying amount of long-lived assets is not recoverable, the Company will reduce the carrying amount of such assets to fair value.

ATLAS SAND COMPANY, LLC
NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Asset Retirement Obligations

In accordance with ASC 410-20, *Asset Retirement Obligations*, the Company records a liability for asset retirement obligations at the fair value of the estimated costs to retire a tangible long-lived asset at the time the liability is incurred, when there is a legal obligation to incur costs to retire the asset and when a reasonable estimate of the fair value of the obligation can be made. The Company has asset retirement obligations with respect to certain assets due to various contractual obligations to clean and/or dispose of those assets at the time they are retired.

A liability for the fair value of an asset retirement obligation, with a corresponding increase to the carrying value of related long-lived assets, is recognized at the time of an obligating event. The asset is depreciated using the straight-line method, and the discounted liability is increased through accretion over the expected timing of settlement.

The estimated liability is based on third-party estimates of costs to abandon the mine site, including estimated economic lives and external estimates as to the cost to bring the land to a state required by the lease agreements. The Company utilized a discounted rate reflecting management's best estimate of the credit-adjusted risk-free rate. Revisions to the liability could occur due to changes in the estimated costs, changes in the mine's economic life or if federal or state regulators enact new requirements regarding the abandonment of mine sites. Accretion expense, which was \$0.1 million for both the years ended December 31, 2021 and 2020, is recorded on the consolidated statement of operations in depreciation, depletion and accretion expense.

Changes in the asset retirement obligations are as follows (in thousands):

	For the Year Ended December 31,	
	2021	2020
Beginning Balance	\$ 1,116	\$ 1,054
Additions to liabilities	—	—
Accretion expense	63	62
Ending Balance	<u>\$ 1,179</u>	<u>\$ 1,116</u>

Deferred Revenues

The Company occasionally receives prepayments from customers for future deliveries of product. These prepayments represent consideration that is unconditional for which the Company has yet to transfer title to the product. Amounts received from customers in advance of product deliveries are recorded as contract liabilities referred to as deferred revenues and are recognized as revenue upon delivery of the product. The Company recognized \$2.0 million of deferred revenue as of December 31, 2021. The Company had no deferred revenue as of December 31, 2020.

ATLAS SAND COMPANY, LLC
NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Changes in the deferred revenues balance are as follows (in thousands):

	For the Year Ended	
	December 31,	
	2021	2020
Beginning Balance	\$ —	\$ —
Customer prepayments	2,280	—
Revenue recognized	(280)	—
Ending Balance	<u>\$ 2,000</u>	<u>\$ —</u>

Deferred Lease Incentives

All incentives received from landlords for office leasehold improvements are recorded as deferred lease incentives and amortized over the term of the respective lease on a straight-line basis as a reduction of rental expense.

Deferred Debt Discount and Financing Costs

In connection with entering into the 2018 Term Loan Credit Facility, the Company delivered to the lender warrants for up to 41,299,845 Class D units. The right to purchase Class D units became exercisable upon the funding of each draw under the 2018 Term Loan Credit Facility. The Company recognized a \$32.2 million debt discount associated with the warrants based on the relative fair value of the debt and warrants issued. In connection with the First Amendment to the 2018 Term Loan Credit Facility, the Company delivered to the lender additional warrants for up to 4,192,460 Class D units, which were exercisable upon funding of the draws in proportion to the additional drawings. The Company delivered 2,515,470 Class D units in connection with the First Amendment for the year ended December 31, 2020. Based on the relative fair value of the debt and warrants issued, the Company recognized \$2.2 million of debt discount associated with the warrants delivered for the year ended December 31, 2020. The Company did not issue warrants for the year ended December 31, 2021. All warrants delivered have been exercised by the lender. There are no outstanding warrants as of December 31, 2021 and 2020. In connection with entering into the Term Loan Credit Facility, the Company recognized \$1.8 million of debt discount related to fees paid to the lender for the year ended December 31, 2021. The debt discounts are reflected as a direct reduction from the carrying amount of the debt obligation on the Company's consolidated balance sheets. Such costs are amortized to interest expense using the effective interest method. The Company recognized \$7.3 million and \$8.1 million of interest expense associated with the amortization of the debt discounts for the years ended December 31, 2021 and 2020, respectively.

The Company defers costs directly associated with acquiring third-party debt financing and these costs are amortized using the effective interest method over the life of the associated third-party debt financing. In connection with entering into the Term Loan Credit Facility and the 2018 Term Loan Credit Facility, the Company incurred \$0.6 million and \$2.3 million of deferred financing costs, respectively. These deferred financing costs are reflected as a direct deduction from the carrying amount of the related debt obligation on the Company's consolidated balance sheets.

In 2018, the Company entered into the ABL Credit Facility and incurred \$1.0 million of deferred financing costs. Deferred financing costs, net of amortization, related to the ABL Credit Facility are classified as deferred financing costs on the consolidated balance sheets. Deferred financing costs associated with the ABL Credit Facility are amortized on a straight-line basis over the life of the agreement and are recorded as interest expense in the consolidated statements of operations.

ATLAS SAND COMPANY, LLC
NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Interest expense associated with the amortization of deferred financing costs was \$0.7 million and \$0.8 million for the years ended December 31, 2021 and 2020, respectively.

On October 20, 2021, the Company repaid all borrowings outstanding under the 2018 Term Loan Credit Facility, in connection with entering into a new Term Loan Credit Facility. In connection with the repayment on October 20, 2021, unamortized debt discount of \$11.1 million, deferred financing costs of \$0.8 million and a make-whole premium of \$4.5 million were recognized as a loss on debt extinguishment within interest expense, net, on the Company's consolidated statements of operations.

Fair Value of Financial Instruments

Fair value is defined as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. Fair value is estimated by applying the following hierarchy, which prioritizes the inputs used to measure fair value into three levels and bases the categorization within the hierarchy upon the lowest level of input that is available and significant to the fair value measurement:

Level 1—Quoted prices in active markets for identical assets or liabilities.

Level 2—Observable inputs other than quoted prices in active markets for identical assets and liabilities, quoted prices for identical or similar assets or liabilities in inactive markets or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities.

Level 3—Inputs that are generally unobservable and typically reflect management's estimate of assumptions that market participants would use in pricing the asset or liability.

The amounts reported in the balance sheets as current assets or liabilities, including cash and cash equivalents, accounts receivable, spare parts inventories, inventories, prepaid expenses and other current assets, accounts payable, accrued liabilities and deferred revenues approximate fair value due to the short-term maturities of these instruments. As of the dates indicated, the Company's long-term debt consisted of the following (in thousands):

	At December 31, 2021		At December 31, 2020		Valuation Technique
	Carrying Value	Fair Value	Carrying Value	Fair Value	
Financial liabilities:					
Outstanding principal amount of the Term Loan Credit Facility	\$ 175,275	\$ 177,028	\$ —	\$ —	Level 2—Market Approach
Outstanding principal amount of the 2018 Term Loan Credit Facility	\$ —	\$ —	\$ 189,606	\$ 213,243	Level 2—Market Approach
Outstanding principal amount of the SBA Loan	\$ —	\$ —	\$ 4,413	\$ 4,413	Level 2—Market Approach

The Company's Term Loan Credit Facility bears interest at a fixed rate of 8.47%, where its fair value will fluctuate based on changes in interest rates and credit quality. As of December 31, 2021, the

ATLAS SAND COMPANY, LLC
NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

Company determined the fair value of the principal amount outstanding under the Term Loan Credit Facility based on the relative discount received in the credit agreement governing the Term Loan Credit Facility executed in October 2021. See Note 6, Debt, for discussion of the Term Loan Credit Facility. The Company concluded, as the pricing of the Term Loan Credit Facility was indirectly observable through a recent market transaction, that is classified as Level 2. The Company's 2018 Term Loan Credit Facility bears interest at a fixed rate of 13%, where its fair value will fluctuate based on changes in interest rates and credit quality. As of December 31, 2020, the Company determined the fair value of the principal amount outstanding under the 2018 Term Loan Credit Facility based on the relative discount received in the First Amendment to the 2018 Term Loan Credit Facility executed in April 2019 relative to the discount recognized at the execution of the 2018 Term Loan Credit Facility agreement executed in January 2018. See Note 6, Debt, for discussion of the First Amendment to the 2018 Term Loan Credit Facility. The Company concluded, as the pricing of the 2018 Term Loan Credit Facility was indirectly observable through a recent market transaction, that it is classified as Level 2.

As of December 31, 2020, the fair value of the SBA Loan approximated its carrying value as the Company pays interest based on the current market rate. As the quoted price is only available for similar financial assets, the Company concluded the pricing is indirectly observable through dealers and has been classified as Level 2.

Environmental Costs and Other Contingencies

The Company recognizes liabilities for environmental and other contingencies when there is an exposure that indicates it is both probable that a liability has been incurred and the amount of loss can be reasonably estimated. Where the most likely outcome of a contingency can be reasonably estimated, the Company accrues a liability for that amount. Where the most likely outcome cannot be estimated a range of potential losses is established and, if no one amount in that range is more likely than any other, the amount at the low end of that range is accrued.

The Company records liabilities for environmental contingencies at the undiscounted amounts on the consolidated balance sheets as accrued liabilities and other liabilities when environmental assessments indicate that remediation efforts are probable, and costs can be reasonably estimated. Estimates of the liabilities are based on currently available facts and presently enacted laws and regulations, taking into consideration the likely effects of other societal and economic factors. These estimates are subject to revision in future periods based on actual costs or new circumstances. The Company capitalizes costs that benefit future periods and recognizes a current period charge in operations and maintenance expenses when clean-up efforts do not benefit future periods.

The Company evaluates potential recoveries of amounts from third parties, including insurance coverage, separately from the liability. Recovery is evaluated based on the solvency of the third party, among other factors. When recovery is assured, the Company records and reports an asset separately from the associated liability on the consolidated balance sheets.

Management is not aware of any environmental or other contingencies that would have a material effect on the consolidated financial statements for the years ended December 31, 2021 and 2020.

Revenues

Under ASC Topic 606-Revenue from Contracts with Customers ("ASC 606"), revenue recognition is based on the transfer of control, or the customer's ability to benefit from the services and products in

ATLAS SAND COMPANY, LLC
NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

an amount that reflects the consideration expected to be received in exchange for those services and products. In recognizing revenue for products and services, the transaction price is determined from sales orders or contracts with customers.

The Company generates revenues from the sale of product that customers purchase for use in the oil and gas industry. Revenues are derived from product sold to customers under supply agreements, whose terms can extend for over one year, and from spot sales through individual purchase orders executed at prevailing market rates. The Company's revenues are primarily a function of the price per ton realized and the volumes sold. Pricing structures under the supply agreements are, in certain cases, subject to certain contractual adjustments and consist of a combination of negotiated pricing and fixed pricing. These arrangements may undergo periodic negotiations regarding pricing and volume requirements, which may occur in volatile market conditions.

The Company recognizes revenue for product at a point in time following the transfer of control and satisfaction of the performance obligation of such items to the customer, under ASC 606, which typically occurs upon customer pick-up at the facilities. The Company's standard collection terms are generally 30 days, with certain customer payment terms extending up to 60 days.

Certain of the Company's contracts contain shortfall provisions that calculate agreed upon fees that are billed when the customer does not meet the minimum purchases over a period of time defined in each contract and when collectability is reasonably certain. As the Company does not have the ability to predict customers' orders over the period, there are constraints around the ability to recognize the variability in consideration related to this condition. The Company did not recognize shortfall revenue for the years ended December 31, 2021 and 2020.

The Company generates service revenue by providing transportation, storage solutions and contract labor services to companies in the oil and gas industry. Transportation services typically consist of transporting product from the plant facilities to the wellsite. The amounts invoiced reflects the transportation services rendered. The amount invoiced for storage solutions and contract labor services reflect the amount of time these services were utilized in the billing period. Transportation, storage solutions and contract labor services are contracted through work orders executed under established pricing terms.

The Company's contracts for product consist of a single performance obligation as the promise to transfer product is not separately identifiable from other promises within the contract and, therefore, are not distinct. For the portion of the Company's contracts that contain multiple performance obligations, such as work orders containing a combination of product and services, the Company allocates the transaction price to each performance obligation identified in the contract based on relative stand-alone selling prices, or estimates of such prices, and recognize the related revenue as control of each individual product or service is transferred to the customer, in satisfaction of the corresponding performance obligations.

All of the Company's revenue is generated from product and service sales in Texas and New Mexico. As such, no further disaggregation of revenue information is provided.

The Company has elected to use the ASC 606 practical expedients, pursuant to which it has excluded disclosures of transaction prices allocated to remaining performance obligations and when it expects to recognize such revenue. The remaining performance obligations are primarily comprised of unfulfilled contracts to deliver product, most of which hold a remaining duration of less than one year,

ATLAS SAND COMPANY, LLC
NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

and of which ultimate transaction prices will be allocated entirely to the unfulfilled contracts. The Company's transaction prices under these contracts may be impacted by market conditions and potential contract negotiations, which have not yet been determined, and are therefore variable in nature.

Unit-Based Compensation

The Company awards incentive units to members of management, consultants and employees as incentive compensation. The Company accounts for these awards under the measurement and recognition provisions of ASC 718, *Compensation – Stock Compensation*. The Company accounts for unit-based compensation by amortizing the fair value of the units, which is determined at the grant date, over the applicable vesting period for each tranche of the award using a graded vesting methodology.

The Company accounts for forfeitures as they occur and reverses any previously recognized unit-based compensation expense for the unvested portion of the awards that were forfeited. The Company did not recognize forfeitures during the year ended December 31, 2021. The Company recognized \$0.2 million of forfeitures during the year ended December 31, 2020. Unit-based compensation expense is recognized as selling, general and administrative expense on the Company's consolidated statements of operations.

Cost of Sales, Excluding Depreciation, Depletion and Accretion Expense

Cost of sales, excluding depreciation, depletion and accretion expense, related to product sales primarily consists of the cost to produce product, including direct and indirect labor, employee housing costs, excavation costs, rental equipment, maintenance expense, utilities, natural gas and royalty expense.

Cost of sales, excluding depreciation, depletion and accretion expense, related to service sales primarily consists of direct and indirect labor, transportation costs and rental equipment.

Cost of sales, excluding depreciation, depletion and accretion expense, related to product and service sales were \$57.8 million and \$26.9 million for the year ended December 31, 2021, respectively. Cost of sales, excluding depreciation, depletion and accretion expense, related to product and service sales were \$47.1 million and \$26.0 million for the year ended December 31, 2020, respectively.

Selling, General and Administrative Expense

Selling, general and administrative expense primarily consists of non-production personnel wages and benefits, insurance expense, travel and entertainment, advertising expense, professional fees, rent expense for the Company's corporate office and office supplies, among other expenses to support the business.

Defined Contribution Plans

The Company has defined contribution plans covering substantially all employees who meet certain service and eligibility requirements.

The Company's matching contribution to defined contribution plans was approximately \$0.4 million and \$0.3 million for the years ended December 31, 2021 and 2020, respectively.

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Income Taxes

The Company is a limited liability company. As a limited liability company, the Company has elected to be treated as a partnership for income tax purposes and, therefore, is not subject to federal income tax. The Company's taxable income or loss, which may differ significantly from taxable income reportable to members as result of differences between the tax basis and financial reporting basis of assets and liabilities and the taxable income allocation requirements under the Company's current LLC Agreement, is included in the federal income tax returns of each member. Accordingly, there is no provision for federal income taxes in the accompanying consolidated financial statements. However, the Company's operations located in Texas are subject to an entity-level tax, the Texas margin tax, at a statutory rate of up to 0.75% of income that is apportioned to Texas. Deferred tax assets and liabilities are recognized for future Texas margin tax consequences attributable to differences between the financial statement carrying amount of existing assets and liabilities and their respective Texas margin tax bases. As of December 31, 2021 and 2020, the Company's net long-term deferred tax liabilities related solely to carrying value differences associated with the Company's property, plant and equipment.

The Company evaluates the uncertainty in tax positions taken or expected to be taken in the course of preparing the consolidated financial statements to determine whether the tax positions are more likely than not of being sustained by the applicable tax authority. However, the conclusions regarding the evaluation are subject to review and may change based on factors including, but not limited to, ongoing analysis of tax laws, regulations, and interpretations thereof.

As of December 31, 2021 and 2020, the Company did not have any liabilities for uncertain tax positions or gross unrecognized tax benefits. The Company's income tax returns from 2017, 2018, 2019 and 2020 are subject to examinations by U.S. federal, state or local tax authorities. The IRS is currently examining the Company's federal tax returns for the taxable year ended December 31, 2018. The Company believes the ultimate resolution of the outstanding examination, for which it has not made any accrual, will not have an adverse effect on the Company's consolidated financial statements. The Company cannot predict or provide assurance as to the ultimate outcome of any existing or future examinations.

Segments

The Company operates as one operating segment. Operating segments are defined as components of an enterprise for which separate financial information is evaluated regularly by the chief operating decision maker ("CODM"). For the years ended December 31, 2021 and 2020, the Company's CODM was collectively its Chairman of the Board and Chief Executive Officer, Chief Operating Officer, and Chief Financial Officer.

The CODM evaluates the Company's financial information and performance on a consolidated basis for purposes of making operating decisions and allocating resources. The Company operates with centralized functions and delivers most of its products and services in a similar way to all customers.

Recently Issued Accounting Pronouncements

Rate Reform—In March 2020, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") 2020-04, Reference Rate Reform (Topic 848): Facilitation of the

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Effects of Reference Rate Reform on Financial Reporting, which provides optional guidance for a limited time to ease the potential burden in accounting for reference rate reform. The new guidance provides optional expedients and exceptions for applying GAAP to contracts, hedging relationships and other transactions affected by reference rate reform if certain criteria are met. The amendments apply only to contracts and hedging relationships that reference LIBOR or another reference rate expected to be discontinued due to reference rate reform. These amendments are effective immediately and may be applied prospectively to contract modifications made and hedging relationships entered into or evaluated on or before December 31, 2022. The Company is evaluating the impact of this standard on its consolidated financial statements.

Financial Instruments—In June 2016, the FASB issued ASU 2016-13, *Financial Instruments—Credit Losses (Topic 326)*, which amends the guidance on the impairment of financial instruments. The standard adds an impairment model, referred to as current expected credit loss, which is based on expected losses rather than incurred losses. The standard applies to most debt instruments, trade receivables, lease receivables, reinsurance receivables, financial guarantees and loan commitments. Under the guidance, companies are required to disclose credit quality indicators disaggregated by year of origination for a five-year period. In May 2019, ASU 2016-13 was subsequently amended by ASU 2019-04, Codification Improvements to Topic 326, *Financial Instruments—Credit Losses*, ASU 2019-05, *Financial Instruments—Credit Losses (Topic 326): Targeted Transition Relief*. The new guidance is effective for fiscal years beginning after December 15, 2021. The Company is currently evaluating the impact of the ASU on the consolidated financial statements and does not believe it will have a material impact on the consolidated financial statements.

Leases—In February 2016, the FASB issued ASU 2016-02, *Leases (Topic 842)*, which provides guidance on the recognition, measurement, presentation and disclosure on leases. Under the standard, certain leases with terms over one year will be reported on the balance sheet as right-of-use assets and lease liabilities, which will gross up the consolidated balance sheet as of January 1, 2022. It further requires recognition in the income statement of a single lease cost, calculated so that the cost of the lease is allocated over the lease term on a generally straight-line basis. Finally, it requires classification of all cash payments within operating activities in the statements of cash flows. ASU 2016-02 was subsequently amended by ASU 2017-13, ASU 2018-01, ASU 2018-10, ASU 2018-11 and ASU 2020-05. The new guidance is effective for fiscal years, and interim periods within those fiscal years, beginning after December 15, 2021. Early adoption is permitted. The Company expects to adopt the accounting standard using a modified retrospective transition approach, which applies the provisions of the new guidance at the effective date without adjusting the comparative periods presented. The Company expects to elect the package of practical expedients permitted under the transition guidance with the new standard, which among other things, requires no reassessment of whether existing contracts are or contain leases as well as no reassessment of lease classification for existing leases upon adoption. The Company also expects to elect the optional practical expedient permitted under the transition guidance within the new standard related to land easements that allows it to carry forward its current accounting treatment for land easements on existing agreements upon adoption. The Company also expects to make an accounting policy election to not recognize leases with an initial term of twelve months or less on the consolidated balance sheet. The Company is finalizing its evaluation of the impacts that the adoption of this accounting guidance will have on the consolidated financial statements and on its future consolidated balance sheet upon adoption. As a part of the implementation work, the Company is validating the inputs and outputs of the software tool used to calculate the initial and ongoing accounting balances for right-of-use assets and liabilities and finalizing the completeness of the lease population.

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Note 3—Inventories

Inventories consisted of the following (in thousands):

	For the Year Ended December 31,	
	2021	2020
Raw materials	\$ 2	\$ 40
Work-in-process	2,747	2,399
Finished goods	450	395
Inventories	\$ 3,199	\$ 2,834

For the years ended December 31, 2021 and 2020, no inventory reserve was deemed necessary.

Note 4—Property, Plant and Equipment, Net

Property, plant and equipment, net, consisted of the following (in thousands):

	For the Year Ended December 31,	
	2021	2020
Plant facilities associated with productive, depletable properties	\$ 243,383	\$ 243,381
Plant equipment	237,845	235,062
Land	3,009	—
Furniture and office equipment	1,230	1,193
Computer and network equipment	1,541	1,385
Buildings and leasehold improvements	24,763	17,391
Construction in progress	18,524	10,776
Property, plant and equipment	530,295	509,188
Less: Accumulated depreciation and depletion	(71,978)	(48,098)
Property, plant and equipment, net	\$ 458,317	\$ 461,090

Depreciation and depletion expense recognized in depreciation, depletion and accretion expense was \$19.4 million and \$4.2 million for the year ended December 31, 2021, respectively. Depreciation and depletion expense recognized in depreciation, depletion and accretion expense was \$17.5 million and \$3.2 million for the year ended December 31, 2020, respectively. Depreciation expense recognized in selling, general and administrative expense was \$1.0 million and \$0.8 million for the years ended December 31, 2021 and 2020, respectively. The Company recognized \$1.3 million of impairment of long-lived assets related to certain power generation assets where the vendor was unable to meet its obligations for the year ended December 31, 2020. The Company pursued legal remedy and determined the assets were not recoverable. The Company recognized \$0.1 million of loss on disposal of fixed assets for the year ended December 31, 2020. The Company did not recognize impairment of long-lived assets or loss on disposal of assets for the year ended December 31, 2021.

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The Company has capital leases that are reported as part of plant equipment. The amortization of capital leases is included in depreciation expense. As of December 31, 2021 and 2020, the Company has capital leases with a cost of \$1.5 million and \$1.3 million, respectively, and accumulated depreciation of \$0.9 million and \$0.2 million, respectively. Future minimum payment obligations for capital leases as of December 31, 2021, consists of the following (in thousands):

2022	\$322
2023	238
2024	87
	<u>\$647</u>

Note 5—Accrued Liabilities

Accrued liabilities consisted of the following (in thousands):

	For the Year Ended December 31,	
	2021	2020
Accrued capital expenditures	\$ 1,411	\$ 269
Accrued personnel costs	787	295
Accrued production costs	1,652	732
Accrued royalties	1,129	523
Professional services	592	537
Sales and use tax payable	1,099	780
Other	<u>2,483</u>	<u>1,169</u>
Total accrued liabilities	<u>\$ 9,153</u>	<u>\$ 4,305</u>

Note 6—Debt

Debt consists of the following (in thousands):

	For the Year Ended December 31,	
	2021	2020
Term Loan Credit Facility	\$ 177,539	\$ —
2018 Term Loan Credit Facility	—	189,606
SBA Loan	—	<u>4,413</u>
Total debt	177,539	194,019
Less: Debt discount, net of accumulated amortization of \$89 and \$17,391, respectively	(1,711)	(18,379)
Less: Deferred financing fees, net of accumulated amortization of \$29 and \$1,369, respectively	(553)	(1,212)
Less: Current portion(a)	<u>(15,563)</u>	<u>(35,171)</u>
Long-term debt	<u>\$ 159,712</u>	<u>\$ 139,257</u>

- (a) As of December 31, 2021, the current portion of long-term debt reflects payments based on the terms of the Term Loan Credit Facility. As of December 31, 2020, the current portion of long-term debt reflects anticipated payments based on the terms of the First Amendment to the 2018 Term Loan Credit Facility.

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Term Loan Credit Facility

On October 20, 2021, the Company entered into a \$180 million, aggregate principal amount, Term Loan Credit Facility which bears an interest rate of 8.47% per annum on borrowings outstanding under the facility with Stonebriar Commercial Finance, LLC (the "Term Lender") and has a maturity date of October 1, 2027. The Term Loan Credit Facility is guaranteed on a secured basis and interest, plus principal, is payable in seventy-two consecutive monthly installments.

At any time prior to the October 1, 2027, maturity date, the Company may redeem the Term Loan Credit Facility, in whole or in part, at a price equal to 100% of the principal amount plus a prepayment fee. The prepayment fee ranges from 3% on or before October 20, 2022, to 2% after October 20, 2022, and on or before October 20, 2023, and 1% thereafter. Upon maturity of the Term Loan Credit Facility, the entire unpaid principal amount, together with interest, fees and other amounts payable in connection with the facility, is immediately due and payable without further notice or demand.

The Term Loan Credit Facility includes certain non-financial covenants, including but not limited to restrictions on incurring additional debt and certain restricted payments. The Term Loan Credit Facility is not subject to financial covenants unless greater than \$5.0 million or more in aggregate is outstanding under the Company's ABL Credit Agreement and for which a minimum average liquidity balance of \$20.0 million must be maintained.

Proceeds from the Term Loan Credit Facility were used exclusively for general corporate purposes, which included the repayment of outstanding indebtedness under the 2018 Term Loan Credit Facility, and to make permitted distributions. As of December 31, 2021, the Company was in compliance with the covenants of the Term Loan Credit Facility.

Asset-Based Loan Credit Facility

On December 14, 2018, the Company closed on the Asset-Based Loan Credit Facility ("ABL Credit Facility") that provides revolving credit financing with a borrowing capacity of up to \$50.0 million. The ABL Credit Facility is unconditionally guaranteed, jointly and severally, by the Company and its subsidiaries. The ABL Credit Facility will mature on December 14, 2023.

The ABL Credit Facility includes a letter of credit sub-facility, which permits issuances of letters of credit up to an aggregate amount of \$10.0 million. For both years ending December 31, 2021 and 2020, the Company had a \$0.6 million outstanding letter of credit under the ABL Credit Facility.

The Company may also request swingline loans under the agreement in an aggregate principal amount not to exceed \$7.5 million. During both years ending December 31, 2021 and 2020, the Company had no outstanding swingline loans under the ABL Credit Facility.

Obligations under the ABL Credit Facility were secured by a first-priority lien on substantially all assets of the Company, until September 9, 2019, when the lenders and the Company entered into the split collateral intercreditor agreement, at which time the ABL Credit Facility became secured by a first-priority lien on inventory and accounts receivable held by the Company and its subsidiaries, and a second-priority lien on the remaining assets of the Company.

Initially, the borrowing base was set at \$35.0 million for the period beginning on December 14, 2018 and ending on April 1, 2019. Thereafter, the amount of available credit changes every month,

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depending on the amount of eligible accounts receivable and inventory the Company has available to serve as collateral. For the period beginning on April 1, 2019, and ending on June 30, 2019, the facility was limited to the lesser of (a) 85% to 90% of the eligible accounts receivable and (b) 75% of the market value of the eligible inventory. Thereafter, the facility is limited to the lesser of (i) the aggregate commitment and (ii) the sum of (a) 85% to 90% of the eligible accounts receivable and (b) lesser of 70% of the cost of the eligible inventory and 85% of the orderly liquidation value of the eligible inventory. The borrowing base components are subject to customary reserves and eligibility criteria. As of December 31, 2021, availability was \$25.3 million.

Borrowings under the ABL Credit Facility bear interest, at the Company's option, at either a base rate or London Interbank Offered Rate ("LIBOR"), as applicable, plus an applicable margin that ranges based on average excess availability. LIBOR loans bear interest at the LIBOR plus an applicable margin, which ranges from 1.50% to 2.00%. Base rate loans bear interest at the applicable base rate, plus an applicable margin, which ranges from 0.50% to 2.00%. In addition to paying interest on outstanding principal under the ABL Credit Facility, the Company is required to pay a commitment fee of 0.375% per annum with respect to the unutilized commitment under the ABL Credit Facility, based on the average utilization of the ABL Credit Facility. The Company is also required to pay customary letter of credit fees, to the extent that one or more letter of credit is outstanding. There were no outstanding borrowings under the ABL Credit Facility as of December 31, 2021. The Company recognized \$0.2 million and \$0.3 million of interest expense, unutilized commitment fees and other fees under the ABL Credit Facility, classified as interest expense, for the years ended December 31, 2021 and 2020, respectively.

The ABL Credit Facility requires that if the excess availability, as defined, is less than the greater of (i) 12.50% of the maximum credit and (ii) \$5.0 million, the Company shall comply with a minimum fixed charge coverage ratio of at least 1.00 to 1.00, for covenant trigger periods beginning after March 14, 2019. In addition, the ABL Credit Facility contains negative covenants that restrict the Company from, among other things, incurring additional debt, granting liens, entering into guarantees, entering into certain mergers, making certain loans and investments, entering into swap agreements, disposing of assets, prepaying certain debt, declaring dividends, accounting changes, transactions with affiliates, modifying certain material agreements or organizational documents relating to, or changing the business it conducts.

The ABL Credit Facility contains certain customary representations and warranties, affirmative covenants, and events of default, including, among other things, payment defaults, breach of representations and warranties, covenant defaults, cross-defaults and cross-acceleration to certain indebtedness, certain events of bankruptcy, certain events of abandonment, certain events under the Employee Retirement Income Security Act of 1974 as amended from time to time, material judgments, actual or asserted failure of any guaranty or security document supporting the ABL Credit Facility to be in full force and effect and change of control. If such an event of default occurs, the lenders under the ABL Credit Facility would be entitled to take various actions, including the acceleration of amounts due under the ABL Credit Facility and all actions permitted to be taken by a secured creditor. For the years ending December 31, 2021 and 2020, the Company was in compliance with the covenants of the ABL Credit Facility.

Limited Waiver and First Amendment to the ABL Credit Facility

On June 4, 2019, the Company and the lenders agreed to amend certain terms of the ABL Credit Facility to extend the due date for taking certain actions with regard to two wholly owned

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subsidiaries of the Company, OLC Kermit, LLC and OLC Monahans, LLC, and to allow the making of limited investments into those subsidiaries. In addition, the lender agreed to waive any defaults or events of default that may have resulted from the Company's acquisition of the two subsidiaries. The Limited Waiver and First Amendment was extended on August 31, 2019, on December 31, 2019, and on June 30, 2020.

Second Amendment to the ABL Credit Facility

On October 22, 2019, the Company and the lenders agreed to amend certain terms of the ABL Credit Facility to allow the Company to enter into insurance premium financing arrangements in the ordinary course of business.

Third Amendment to the ABL Credit Facility

On April 13, 2020, the Company and the lenders agreed to amend certain terms of the ABL Credit Facility that, in the event the Qualified SBA Loan is not forgiven, or fails to qualify for forgiveness, in accordance with the terms of the CARES ACT, allows the Company to establish reserves up to the amount of the Qualified Small Business Administration Loan that is not forgiven or fails to qualify for forgiveness.

Fourth Amendment to the ABL Credit Facility

On March 23, 2021, the Company and the lenders agreed to amend certain terms of the ABL Credit Facility, including expanding the list of assets available for the calculation of available credit. Subsequent to the execution of the Fourth Amendment to the ABL Credit Agreement ("Fourth Amendment"), the facility is limited to the lesser of (i) the aggregate commitment and (ii) the sum of (a) 90% of the book value of eligible accounts receivable, (b) lesser of 100% Pledged Cash, defined on any date, as the aggregate amount of unrestricted cash on deposit in the cash collateral account, and \$25.0 million, and (c) the lesser of 70% of the cost of eligible inventory and 85% of the net orderly liquidation value of the eligible inventory. The Company is required to keep cash on deposit in the cash collateral account only to the extent any outstanding borrowings under the ABL Credit Facility exceed the portion of the borrowing base represented by accounts receivable and inventory. The borrowing base components are subject to customary reserves and eligibility criteria. Additionally, the Fourth Amendment amended the ABL Credit Agreement to add provisions addressing the potential transition from LIBOR to a secured overnight financing rate ("SOFR"), in the event the administrator of LIBOR has ceased or will cease publication of LIBOR.

Fifth Amendment to the ABL Credit Facility

On October 20, 2021, the Company and the lender agreed to amend certain terms of the ABL Credit Facility, to, among other things, allow the Company to enter into the Term Loan Credit Facility with Stonebriar Commercial Finance, to repay all borrowings outstanding under the 2018 Term Loan Credit Facility and to conform certain covenants under the ABL Credit Facility to the Term Loan Credit Facility.

2018 Term Loan Credit Facility

On January 30, 2018, the Company closed on the 2018 Term Loan Credit Facility that provided debt financing in an aggregate principal amount of \$150.0 million, which was funded in a series of

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tranches during 2018. The Company refers to these borrowings, collectively, as the “2018 Term Loan Credit Facility.” In connection with the 2018 Term Loan Credit Facility, the Company delivered to the lender warrants for up to 41,299,845 Class D units. See Note 8, *Equity*, for further discussion.

Obligations under the 2018 Term Loan Credit Facility were secured by a second-priority lien on substantially all assets of the Company, until September 9, 2019, when the lenders and the Company entered into the split collateral intercreditor agreement, at which time the 2018 Term Loan Credit Facility became secured by a second-priority lien on inventory and accounts receivable held by the Company and its subsidiaries, and a first-priority lien on the remaining assets of the Company. In addition, the Company’s subsidiaries had guaranteed the Company’s obligations under the 2018 Term Loan Credit Facility and had granted to the lender security interests in substantially all respective assets.

Borrowings under the 2018 Term Loan Credit Facility bore interest equal to the lesser of (1) the applicable interest rate, which was set at either 10% or 13% per annum, based upon the Company’s consolidated leverage ratio or (2) the highest lawful rate, as defined in the 2018 Term Loan Credit Facility agreement. The Company, at its option, could pay up to 50% of any interest payment in-kind. The interest rate for the 2018 Term Loan Credit Facility was 13% as of December 31, 2020. The Company recognized interest expense associated with the 2018 Term Loan Credit Facility of \$18.9 million and \$23.6 million for the years ended December 31, 2021 and 2020, respectively.

The 2018 Term Loan Credit Facility would have matured on January 30, 2023, and, for certain loans, would amortize in quarterly installments equal to 1.00% of the aggregate outstanding principal balance as of each quarterly payment date beginning with the initial payment, which was made for the year ended December 31, 2018. Beginning on March 31, 2021, the quarterly principal payments increased to 5.00% of the aggregate outstanding principal balance, with the balance payable on the final maturity date, subject to the amend and extend provisions applicable under the agreement.

The Company had the option to voluntarily prepay the outstanding 2018 Term Loan Credit Facility along with all interest then accrued and unpaid, in whole or in part, and the applicable premium payment based upon either (a) the present value using a discount rate based upon a U.S. Treasury rate plus 50 basis points of the amount of interest that would have been payable on the principal balance prepaid if prior to January 30, 2020, (b) 7% of the principal balance prepaid, thereafter and prior to January 30, 2021, (c) 3% of the principal balance prepaid, anytime thereafter, or (d) 1% of the principal balance if prepaid upon the occurrence of an Initial Public Offering (“IPO”) event.

The 2018 Term Loan Credit Facility contained customary representations and warranties and customary affirmative and negative covenants, including limits or restrictions on the Company’s ability to incur liens, incur indebtedness, make certain restricted payments, merge or consolidate and dispose of assets. In addition, it contained customary events of default that entitled the lenders to cause any or all of the Company’s indebtedness under the 2018 Term Loan Credit Facility to become immediately due and payable. The events of default (some of which were subject to applicable grace or cure periods) included, among other things, nonpayment defaults, covenant defaults, cross-defaults to other material indebtedness, bankruptcy and insolvency defaults and material judgment defaults.

First Amendment to the 2018 Term Loan Credit Facility

On April 3, 2019, the Company amended certain terms of the 2018 Term Loan Credit Facility, which allowed for borrowings of an additional \$25.0 million, primarily to fund capital improvement projects. In addition, language related to payment terms for certain 2018 Term Loan Credit Facility was

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amended so that all aggregate outstanding principal related to the 2018 Term Loan Credit Facility, other than the paid-in-kind loans, is paid according to the terms noted above.

In connection with the First Amendment to the 2018 Term Loan Credit Facility above on April 3, 2019, additional warrants were delivered for up to 4,192,460 Class D units, which were exercisable upon funding of the draws in proportion to the additional \$25.0 million in borrowings, see Note 8, *Equity*, for further discussion.

On June 20, 2019, the Company borrowed \$5.0 million of the additional \$25.0 million under the 2018 Term Loan Credit Facility. On June 28, 2019, the Company borrowed another \$5.0 million of the additional \$25.0 million under the 2018 Term Loan Credit Facility. On April 24, 2020 and July 7, 2020, the Company borrowed \$12.2 and \$2.3 million of the additional \$25.0 million under the 2018 Term Loan Credit Facility, respectively.

Limited Waiver and Second Amendment to the 2018 Term Loan Credit Facility

On June 4, 2019, the Company and the lender agreed to amend certain terms of the 2018 Term Loan Credit Facility to extend the due date for taking certain actions with regard to two wholly owned subsidiaries of the Company, OLC Kermit, LLC and OLC Monahans, LLC, and to allow the making of limited investments into those subsidiaries. In addition, the lender agreed to waive any defaults or events of default that may have resulted from the Company's acquisition of the two subsidiaries. The Limited Waiver and Second Amendment was extended on August 31, 2019, on December 31, 2019, on June 30, 2020, and on August 29, 2020.

Third Amendment to the 2018 Term Loan Credit Facility

On October 22, 2019, the Company and the lender agreed to amend certain terms of the 2018 Term Loan Credit Facility to allow the Company to enter into insurance premium financing arrangements in the ordinary course of business.

Fourth Amendment to the 2018 Term Loan Credit Facility

On April 13, 2020, the Company and the lender agreed to amend certain terms of the 2018 Term Loan Credit Facility to allow the Company to receive the Qualified Small Business Administration Loan in an amount not to exceed \$10.0 million.

Extinguishment of the 2018 Term Loan Credit Facility

On October 20, 2021, the Company repaid all borrowings outstanding under the 2018 Term Loan Credit Facility, in connection with entering into a new Term Loan Credit Facility with Stonebriar Commercial Finance. The Company paid a total of \$171.0 million, which included principal of \$143.1 million, paid-in-kind borrowings of \$22.2 million, make-whole premium of \$4.5 million, and \$1.2 million of accrued interest. In connection with the repayment on October 20, 2021, unamortized debt discount and deferred financing costs of \$11.9 million and a make-whole premium of \$4.5 million were recognized as a loss on debt extinguishment within interest expense, net, on the consolidated statements of operations for the year ended December 31, 2021.

Qualified SBA Loan

On April 18, 2020, the Company closed on the Qualified United States Small Business Administration ("SBA") Note ("SBA Loan"), pursuant to the Paycheck Protection Program ("PPP") that

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provided unsecured debt financing of \$4.4 million. The SBA Loan bore interest at 1% per annum. The SBA Loan would have matured on April 22, 2022 and would have amortized in eleven monthly installments, including accrued interest, beginning on June 22, 2021. The Company had the right to prepay all or any portion of the principal and accrued interest balance of the SBA Loan at any time without penalty or fee. The Company applied for forgiveness of the SBA Loan amounts used for certain qualifying payroll and other operating expenses, in accordance with the requirements of the PPP, including provision of Section 1106 of the CARES Act. The Company recognized de minimis interest expense related to the SBA Loan for both the years ended December 31, 2021 and 2020. The Company submitted its application for forgiveness to the SBA on October 6, 2020. No SBA Loan payments are due until after the SBA evaluates the Company's application for forgiveness. On June 25, 2021, the Company received notice that the SBA Loan, including accrued interest, of approximately \$4.5 million was forgiven by the SBA. The Company recognized a gain on extinguishment of debt of approximately \$4.5million within interest expense, net, on the consolidated statements of operations for the year ended December 31, 2021. The SBA Loan contained customary representations and warranties, including the use of funds considered for forgiveness. In addition, it contained event of default that entitled the lender to cause any or all of the Company's indebtedness under the SBA Loan to become immediately due and payable. The events of default included, among other things, cross-defaults to other indebtedness, bankruptcy and insolvency defaults and material judgement defaults.

Debt Obligations

The following table sets forth future principal payment obligations as of December 31, 2021, based on the terms of the Term Loan Credit Facility (in thousands).

2022	\$ 15,563
2023	19,443
2024	34,210
2025	37,258
2026	40,539
2027	30,527
Total	<u>\$ 177,539</u>

Note 7—Commitments and Contingencies

Royalty Agreements

The Company has entered into a royalty agreement associated with its leased properties with a related party, under which it is committed to pay royalties on product sold from its production facilities for which the Company has received payment from the end customer. Royalty expense is recorded as the product is sold, is included in costs of sales, and totaled less than 5% of cost of sales for both the years ended December 31, 2021 and 2020.

Standby Letters of Credit

As of December 31, 2021 and 2020, the Company had a \$0.6 million outstanding standby letter of credit issued under the ABL Credit Facility.

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Lease Obligations

The Company, through conducting business, has entered into various lease agreements for plant equipment, office space and office equipment. Rent expense associated with noncancelable lease obligations was \$3.4 million and \$2.7 million for the years ended December 31, 2021 and 2020, respectively. Noncancelable lease obligations as of December 31, 2021 are as follows (in thousands):

2022	\$ 2,654
2023	1,370
2024	1,157
2025	1,098
2026	1,126
Thereafter	908
Total	<u>\$ 8,313</u>

The Company also has long-term commitments associated with its reserves near the Kermit facility as certain mineral leases contain delay rental terms.

Delay rental expense was \$0.3 million for both of the years ended December 31, 2021 and 2020. Delay rental payments may be required in future years until proppant production begins on the respective lessor properties.

On June 23, 2020, the Company subleased a portion of its Austin office lease that expires on July 14, 2022. The sublease will decrease the Company's rent expense by \$0.1 million for the year ended December 31, 2022.

Litigation

The Company is involved in various legal and administrative proceedings that arise from time to time in the ordinary course of doing business. Some of these proceedings may result in fines, penalties or judgments being assessed against the Company, which may adversely affect financial results. In addition, from time to time, the Company is involved in various disputes, which may or may not be settled prior to legal proceedings being instituted and which may result in losses in excess of accrued liabilities, if any, relating to such unresolved disputes. Expenses related to litigation reduce operating income. The Company does not believe that the outcome of any of these proceedings or disputes would have a significant adverse effect on the financial position, long-term results of operations or cash flows. It is possible, however, that charges related to these matters could be significant to results of operations or cash flows in any single accounting period. Management is not aware of any legal, environmental or other commitments and contingencies that would have a material effect on the consolidated financial statements.

Note 8—Equity

The Company has authority to issue an unlimited number of units under its current capital structure and the ability to issue additional units of different classes or series. The outstanding units are designated as Class A units, Class C units, Class D units and Class P units. Additional units, of the same or different classes or series, having the same or different rights, powers and duties as preexisting units may be created and issued. All Class A, Class C, Class D and Class P unitholders as of December 31, 2021 and 2020, are deemed to be members of the Company ("Members").

ATLAS SAND COMPANY, LLC
NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

On January 30, 2018, the Company executed the Third Amended and Restated Limited Liability Company Agreement of Atlas Sand Company, LLC ("LLC Agreement") to create Class D units as a class of unit that the Company is authorized to issue. This amendment was executed in connection with the issuance of the 2018 Term Loan Credit Facility. The Company delivered to the lender warrants for up to 41,299,845 Class D units, with an exercise price of \$0.01 per warrant unit, that became exercisable upon the funding of each draw under the 2018 Term Loan Credit Facility. During the year ended December 31, 2018, the lender exercised all 41,299,845 Class D warrants.

On April 3, 2019, the Company amended certain terms of the 2018 Term Loan Credit Facility. In connection with the First Amendment to the 2018 Term Loan Credit Facility ("First Amendment"), the Company delivered to the lender additional warrants for up to 4,192,460 Class D units, which were exercisable upon funding of the draws in proportion to the additional drawings. During the years ended December 31, 2020 and 2019, the lender exercised 2,515,470 and 1,676,990 Class D warrants associated with the First Amendment, respectively. There were no outstanding warrants as of December 31, 2021 and 2020.

Each Member of the Company is entitled to one vote for each Class A, Class C and Class D unit owned by such Member. Class P units are issued in connection with the Company's long-term incentive plan and have no voting rights.

The Company's LLC Agreement contains provisions for the allocation of net income and loss to the Class A and Class D units. For purposes of maintaining Member capital accounts, the LLC Agreement specifies that net income or net loss shall be allocated proportionally among Members in accordance with their respective percentage ownership interest.

In accordance with the Company's LLC Agreement, all Class C units shall automatically convert to Class A units immediately prior to the closing of a Capital Event, as defined in the Company's LLC Agreement, which, in general, includes a public offering or sale of the Company's assets or equity. Additionally, the holders of Class C units may elect, at any time prior to the approval of a Capital Event, to convert all Class C units into newly issued Class A units by providing notice to the Company.

The Company's LLC Agreement sets forth the calculation to be used to determine the amount of cash distributions that the unitholders will receive. Cash distributions were de minimis as of December 31, 2020.

The Company paid a cash distribution to Class A and Class D unitholders in the aggregate amount of \$10.0 million, based on the Company's LLC Agreement calculation, for the year ended December 31, 2021. Class C units do not participate in cash distributions, based on the terms of the Company's LLC Agreement.

Upon admittance as Members of the Company, the Class C unitholders were initially granted an option that entitles them to acquire a percentage of the units of the Company that are offered in conjunction with additional capital contribution events, as defined by the Company's LLC Agreement, which generally includes instances where additional units are issued by the Company. The option is not unconditional and can only be exercised upon the occurrence of certain capital events. The consideration for the exercise of the option is based on the percentage ownership of the Class C unitholders at the date of the capital event and the total capital to be contributed in connection with such capital event.

ATLAS SAND COMPANY, LLC
NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

In October 2021, pursuant to the Company's LLC Agreement, the Company delivered a Funding Notice to the Atlas Sand Company, LLC unitholders (other than ASMC, which is the majority unitholder and had already made Additional Capital Contributions related to such Funding Notice), by which the Company offered each unitholder the right, but not the obligation, to make Additional Capital Contributions to the Company. In addition, the Company delivered a notice to the Class C unitholders pursuant to their option giving them the right to make additional capital contributions, which they exercised. The offering closed on December 1, 2021 and resulted in Additional Capital Contributions of \$12.6 million for the year ended December 31, 2021.

Note 9—Unit-Based Compensation

The Company recognizes unit-based compensation expense for awards granted under two long-term incentive plans, the Atlas Sand Management Company, LLC Long-Term Incentive Plan (the "ASMC Plan") and the Atlas Sand Company, LLC Long-Term Incentive Plan (the "ASCo Plan"). The ASMC Plan was adopted on September 15, 2017, by ASMC for officers, employees, directors, managers and consultants of the Company (the "ASMC Participants"). The ASCo Plan was adopted by the Company on December 15, 2017, for officers, employees, directors, managers, consultants or other advisors of the Company (the "ASCo Participants").

The Company has applied the guidance of FASB Interpretation 44, which establishes an accounting model where equity awards granted by a parent company to employees of a subsidiary are recognized in the financial statements of the subsidiary. For the years ended December 31, 2021 and 2020, the Company recognized de minimis and \$0.9 million of unit-based compensation expense in its consolidated statements of operations related to awards in the ASMC Plan, respectively.

On May 28, 2018, the Company adopted the Amended and Restated Long-Term Incentive Plan that reduced the authorized available awards to be issued under the ASCo Plan from 149,425 to 100,000. The ASCo Plan consists of equity grants of Class P units made to ASCo Participants at the discretion of the plan administrator. Pursuant to the terms of the ASCo Plan, to the extent that an award is canceled, any and all Class P units that are canceled and repurchased will be available again for new awards under the ASCo Plan.

The vesting schedule for each grant under the plans shall be determined by the respective plans' administrator.

A summary of ASCo's Class P unit activity is as follows (in thousands):

<u>ASCo Plan Class P unit activity</u>	<u>Number of Class P Units</u>	<u>Weighted Average Grant Date Fair Value</u>
Non-vested at December 31, 2020	2,500	\$ 151.57
Granted	2,500	
Vested	(2,167)	\$ 151.57
Forfeited	—	
Non-vested at December 31, 2021	2,833	\$ 151.57

The Company accounts for each tranche of the unit awards as compensatory awards in accordance with FASB ASC 718, and as such, compensation expense is recognized over the service condition vesting period based on the grant date fair values using a graded vesting methodology. To determine grant date fair value, the Company valued these unit awards utilizing a Monte Carlo option pricing model, to take into consideration the probability of a market condition being met. This methodology involves making assumptions for the expected time to liquidity, volatility and risk-free rate.

ATLAS SAND COMPANY, LLC
NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

The Company estimated expected volatility based on a 50/50 blend of historical and implied volatility. The risk-free interest rate is based on the yield on U.S. government bonds for a period commensurate with the expected term. The expected term is based on time to the expected exit date as of the valuation date based on the probability weighted average of exit scenario terms. The Company applies a discount to reflect the lack of marketability due to the absence of an active market for its shares. Further, the Company assumed no expected dividend yield.

For the years ended December 31, 2021 and 2020, the Company recognized \$0.1 million and \$1.6 million of unit-based compensation expense related to awards in the ASCo Plan.

As of December 31, 2021, unrecognized unit-based compensation expense amounts related to the ASCo and ASMC Plans were \$0.3 million and \$0.1 million, respectively, each with a weighted average remaining service period of 1.4 years.

Note 10—Income Taxes

The components of the income tax provision are as follows (in thousands):

	For the Year Ended December 31,	
	2021	2020
Current income tax provision:		
Federal	\$ —	\$ —
State	471	(294)
Total current income tax provision	\$ 471	\$ (294)
Deferred income tax provision:		
Federal	\$ —	\$ —
State	360	666
Total deferred income tax provision	\$ 360	\$ 666
Income tax provision	\$ 831	\$ 372

Income tax expense was different than the amounts computed by applying the statutory federal income tax rate for partnerships (0%) as follows (in thousands, except effective tax rates):

	For the Year Ended December 31,	
	2021	2020
Income (loss) before income taxes	\$5,089	\$(34,070)
Income tax expense at the federal statutory rate	—	—
State income tax expense	831	372
Income tax expense	\$ 831	\$ 372
Effective tax rate	16.3%	-1.1%

ATLAS SAND COMPANY, LLC
NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

The tax effects of cumulative temporary differences that give rise to significant deferred tax assets and deferred tax liabilities are presented below (in thousands):

	For the Year Ended	
	December 31,	
	2021	2020
Deferred tax assets:		
Other	\$ —	\$ —
Total deferred tax assets	<u>\$ —</u>	<u>\$ —</u>
Deferred tax liabilities:		
Depreciable and depletable assets	\$ 1,908	\$ 1,548
Other	—	—
Total deferred tax liabilities	<u>\$ 1,908</u>	<u>\$ 1,548</u>

Due to the contribution of certain depletable assets by members of the Company, a deferred tax liability was created equal to the difference between the fair market value of the contributed assets ("GAAP basis") and the historical cost basis ("Tax basis"). A deferred tax liability of \$0.9 million has been recorded as a component of members' equity because the difference resulted from transactions with members. The deferred tax liability will be amortized as the associated basis difference is realized on the tax return.

Note 11—Related-Party Transactions

One member of the Company's Board of Managers served as an executive for a company to whom the Company sold product. For the year ended December 31, 2020, the Company recognized \$0.8 million in revenues from this customer. As of December 31, 2020, there were no accounts receivable balance for this customer outstanding. This entity was no longer considered a related party subsequent to May 2020, as the member of the Company's Board of Managers was no longer associated with this entity.

On January 26, 2021, the Company entered into a Joint Development Agreement with, among others, a customer, which is controlled by one member of the Company's Board of Managers. Under the Joint Development Agreement, the Company has agreed to supply sand for certain wells to be drilled and completed the customer. For the year ended December 31, 2021, the Company recognized revenue under the agreement of \$0.2 million. As of December 31, 2021, the Company's outstanding balance of related-party accounts receivable to this customer was \$0.1 million.

The Company had one month-to-month man camp lease and certain office leases with a counterparty controlled by one member of the Company's Board of Managers. The Company recognized \$1.5 million of rent expense associated with these leases for both the years ended December 31, 2021 and 2020. As of December 31, 2020, the office leases were no longer active.

On December 10, 2021, the Company acquired a lodging facility and related assets in West Texas for \$7.0 million from counterparties controlled by the Executive Chairman of the Company's Board of Managers. This transaction is considered an asset acquisition in 2021. Subsequent to this transaction and as of December 31, 2021, the man camp lease was terminated.

ATLAS SAND COMPANY, LLC
NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

During the years ended December 31, 2021 and 2020, the Company incurred \$2.0 million and \$1.2 million of expenses with members of the Company, including such activities as payroll reimbursements, business development activities, travel expenditures and other general business expenditures, respectively. As of December 31, 2021 and 2020, the Company's outstanding balance of related-party accounts payable to these members was \$0.6 million and \$0.1 million, respectively.

Refer to other related party transaction as described in Note 7 - Commitments and contingencies.

ATLAS SAND COMPANY, LLC
CONDENSED CONSOLIDATED BALANCE SHEETS

(In thousands, except share data)

	<u>March 31,</u> <u>2022</u>	<u>December 31,</u> <u>2021</u>
	<u>(Unaudited)</u>	
Assets		
Current assets:		
Cash and cash equivalents	\$ 53,836	\$ 40,401
Accounts receivable	32,890	29,135
Accounts receivable—related parties	256	283
Inventories	2,557	3,199
Spare part inventories	8,113	7,207
Prepaid expenses and other current assets	<u>2,192</u>	<u>4,048</u>
Total current assets	99,844	84,273
Property, plant and equipment, net	461,023	458,317
Finance lease right-of-use assets	3,751	—
Operating lease right-of-use assets	3,750	—
Deferred financing costs	381	436
Other long-term and intangible assets	<u>2,851</u>	<u>824</u>
Total assets	<u>\$ 571,600</u>	<u>\$ 543,850</u>
Liabilities & Members' Equity		
Current liabilities:		
Accounts payable	\$ 14,372	\$ 12,180
Accounts payable—related parties	234	617
Accrued liabilities	12,272	9,153
Current portion of long-term debt	15,890	15,563
Deferred revenues	1,068	2,000
Other current liabilities	<u>2,100</u>	<u>1,125</u>
Total current liabilities	45,936	40,638
Long-term debt, net of discount and deferred financing costs	155,496	159,712
Long-term portion of capital lease obligations	—	308
Deferred tax liabilities	1,908	1,908
Asset retirement obligation	1,195	1,179
Other long-term liabilities	<u>7,317</u>	<u>1,408</u>
Total liabilities	211,852	205,153
Members' equity:		
Class A units, 316,273,129 units outstanding as of March 31, 2022 and December 31, 2021	276,273	276,273
Class C units, 94,639,647 units outstanding as of March 31, 2022 and December 31, 2021	94,640	94,640
Class D units, 45,492,305 units outstanding as of March 31, 2022 and December 31, 2021	36,225	36,225
Class P units, 84,000 and 83,833 units outstanding as of March 31, 2022 and December 31, 2021, respectively	—	—
Unit-based compensation	19,906	19,701
Other capital	(882)	(882)
Accumulated deficit	<u>(66,414)</u>	<u>(87,260)</u>
Total members' equity	359,748	338,697
Total liabilities and members' equity	<u>\$ 571,600</u>	<u>\$ 543,850</u>

The accompanying notes are an integral part of these financial statements

ATLAS SAND COMPANY, LLC
CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS

(Unaudited)
(In thousands)

	For the Three Months Ended March 31,	
	2022	2021
Product sales	\$ 54,812	\$ 26,056
Service sales	5,042	5,776
Total sales	59,854	31,832
Cost of sales (excluding depreciation, depletion and accretion expense)	24,445	18,920
Depreciation, depletion and accretion expense	6,167	5,448
Gross profit	29,242	7,464
Selling, general and administrative expense	5,275	4,251
Operating income	23,967	3,213
Interest expense, net	(3,990)	(8,500)
Other income	1,094	55
Income (loss) before income taxes	21,071	(5,232)
Income tax expense	225	103
Net income (loss)	<u>\$ 20,846</u>	<u>\$ (5,335)</u>

The accompanying notes are an integral part of these financial statements

ATLAS SAND COMPANY, LLC
CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS

(Unaudited)
(In thousands)

	For the Three Months Ended March 31,	
	2022	2021
Operating activities:		
Net income (loss)	\$ 20,846	\$ (5,335)
Adjustments to reconcile net income (loss) to net cash provided by operating activities:		
Depreciation, depletion and accretion expense	6,483	5,685
Amortization of debt discount	109	2,158
Amortization of deferred financing costs	109	199
Unit-based compensation expense	205	28
Interest paid-in-kind through issuance of additional term loans	—	3,039
Commodity derivatives gain	(855)	—
Settlements on commodity derivatives	99	—
Premiums paid on commodity derivatives	(136)	—
Non-cash lease expense	(56)	—
Changes in operating assets and liabilities:		
Accounts receivable	(3,708)	(5,393)
Accounts receivable – related party	27	—
Inventories	642	768
Spare part inventories	(906)	108
Prepaid expenses and other current assets	2,701	231
Other long-term assets	(2,042)	(52)
Accounts payable	(87)	1,378
Accounts payable – related parties	(383)	(29)
Deferred revenue	(932)	—
Accrued liabilities and other liabilities	1,583	1,684
Net cash provided by operating activities	23,699	4,469
Investing activities:		
Purchases of property, plant and equipment	(6,037)	(1,725)
Net cash used in investing activities	(6,037)	(1,725)
Financing activities:		
Payments on term loan borrowings	(3,819)	(9,480)
Issuance costs associated with debt financing	(233)	(47)
Payments under finance leases and capital leases	(175)	(114)
Net cash used in financing activities	(4,227)	(9,641)
Net increase (decrease) in cash and cash equivalents	13,435	(6,897)
Cash and cash equivalents, beginning of period	40,401	36,072
Cash and cash equivalents, end of period	\$ 53,836	\$ 29,175
Supplemental cash flow information		
Cash paid during the period for:		
Interest	\$ 3,734	\$ 3,103
Non-cash items:		
Property, plant and equipment in accounts payable and accrued liabilities	\$ 6,143	\$ 1,730

The accompanying notes are an integral part of these financial statements

ATLAS SAND COMPANY, LLC
CONDENSED CONSOLIDATED STATEMENTS OF MEMBERS' EQUITY
(Unaudited)
(In thousands)

	Class A		Class C		Class D		Class P		Unit-Based Compensation	Other Capital	Accumulated Deficit	Total Members' Equity
	Units	Value	Units	Value	Units	Value	Units	Value				
Balance at December 31, 2020	313,701	\$273,701	84,599	\$84,599	45,492	\$36,225	82	\$ —	\$ 19,572	\$ (882)	\$ (81,518)	\$ 331,697
Issuance of class P units	—	—	—	—	—	—	1	—	—	—	—	—
Unit-based compensation expense	—	—	—	—	—	—	—	—	28	—	—	28
Net loss	—	—	—	—	—	—	—	—	—	—	(5,335)	(5,335)
Balance at March 31, 2021	<u>313,701</u>	<u>\$273,701</u>	<u>84,599</u>	<u>\$84,599</u>	<u>45,492</u>	<u>\$36,225</u>	<u>83</u>	<u>\$ —</u>	<u>\$ 19,600</u>	<u>\$ (882)</u>	<u>\$ (86,853)</u>	<u>\$ 326,390</u>
Balance at December 31, 2021	316,273	\$276,273	94,640	\$94,640	45,492	\$36,255	84	\$ —	\$ 19,701	\$ (882)	\$ (87,260)	\$ 338,697
Unit-based compensation expense	—	—	—	—	—	—	—	—	205	—	—	205
Net income	—	—	—	—	—	—	—	—	—	—	20,846	20,846
Balance at March 31, 2022	<u>316,273</u>	<u>\$276,273</u>	<u>94,640</u>	<u>\$94,640</u>	<u>45,492</u>	<u>\$36,255</u>	<u>84</u>	<u>\$ —</u>	<u>\$ 19,906</u>	<u>\$ (882)</u>	<u>\$ (66,414)</u>	<u>\$ 359,748</u>

The accompanying notes are an integral part of these financial statements

ATLAS SAND COMPANY, LLC
NOTES TO THE UNAUDITED CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

Note 1—Business and Organization

Atlas Sand Company, LLC (the “Company”) is a Delaware limited liability company formed on April 20, 2017. The Company is a pure-play, low-cost producer of high-quality, locally sourced 100 mesh and 40/70 raw sand, used as a proppant during the well completion process, necessary to facilitate the recovery of hydrocarbons from oil and natural gas wells, exclusively in the Permian Basin. One hundred percent of the Company’s sand reserves are located in Winkler and Ward Counties, Texas, and operations consist of proppant production and processing facilities, including one facility near Kermit, Texas (“the Kermit facility”) and a second facility near Monahans, Texas (“the Monahans facility”).

The Company sells product and services primarily to oil and natural gas exploration and production companies and oilfield service companies either under supply agreements or through spot sales in the open market. The Company also offers complete mine to wellsite proppant logistics solutions.

The Company is controlled by Atlas Sand Management Company, LLC (“ASMC”). The Company also has several wholly owned subsidiaries, which include Atlas Sand Employee Company, LLC; Atlas OLC Employee Company, LLC; Atlas Construction Employee Company, LLC; Atlas Sand Employee Holding Company, LLC; Atlas Sand Construction, LLC; OLC Kermit, LLC; and OLC Monahans, LLC, Fountainhead Logistics, LLC, and Atlas Energy Solutions, Inc. All subsidiaries are included in the consolidated financial statements of the Company.

Note 2—Summary of Significant Accounting Policies

Basis of Presentation

The accompanying unaudited condensed consolidated financial statements (the “Financial Statements”) have been prepared in accordance with generally accepted accounting principles in the United States of America (“U.S. GAAP”). All adjustments necessary for a fair presentation of the Financial Statements have been included. Such adjustments are of a normal, recurring nature.

In the opinion of management of the Company, the unaudited interim condensed consolidated financial statements have been prepared on the same basis as the audited consolidated financial statements, in all material respects, and include all adjustments of a normal recurring nature necessary for a fair presentation. The results of operations for the three months ended March 31, 2022 are not necessarily indicative of the results to be expected for the year ending December 31, 2022 or for any other period. These unaudited condensed consolidated financial statements should be read in conjunction with the Company’s audited consolidated financial statements and notes as of and for the year ended December 31, 2021.

Consolidation

The Financial Statements include the accounts of the Company and wholly owned subsidiaries. All intercompany transactions and accounts have been eliminated in consolidation.

Use of Estimates

The preparation of the Financial Statements in conformity with U.S. GAAP requires management to make estimates, judgments and assumptions that affect the amounts reported in the financial

ATLAS SAND COMPANY, LLC
NOTES TO THE UNAUDITED CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

statements and accompanying notes. The Company bases its estimates on historical experience and on various assumptions that are believed to be reasonable under the circumstances. Actual results could differ from those estimates.

Cash and cash equivalents

Cash and cash equivalents consist of all highly liquid investments that are readily convertible into cash and have original maturities of three months or less when purchased. The Company places cash deposits with high-credit-quality financial institutions. At times, cash may be uninsured or in deposit accounts that exceed or are not covered under the Federal Deposit Insurance Corporation limit.

Concentrations of Credit Risk

Throughout 2022 and 2021, the Company has maintained cash balances on deposit and time deposits with financial institutions in excess of federally insured amounts; however, all these financial institutions hold an investment-grade rating by one or more major rating agencies.

For the three months ended March 31, 2022, one customer comprised 11% of the Company's sales. For the three months ended March 31, 2021, no customer comprised 10% or more of the Company's sales.

Accounts Receivable

Accounts receivable are recorded at cost when earned and represent claims against third parties that will be settled in cash. The carrying value of the Company's receivables, net of allowance for doubtful accounts, represents the estimated collectable amount. If events or changes in circumstances indicate specific receivable balances may be impaired, further consideration is given to the Company's ability to collect those balances and the allowance is adjusted accordingly. Past-due receivable balances are written off when the Company's internal collection efforts have been unsuccessful in collecting the amounts due. The Company performs credit evaluations of new customers and sometimes require deposits and prepayments, to mitigate credit risk. When it is probable that all or part of an outstanding balance will not be collected, the Company establishes an allowance for doubtful accounts.

The Company performs credit evaluations of new customers and sometimes require deposits and prepayments, to mitigate credit risk. As of March 31, 2022 and December 31, 2021, there was no allowance for doubtful accounts. The Company did not record bad debt expense for both the three months ended March 31, 2022 and 2021.

As of March 31, 2022, four customers represented 12%, 11%, 10%, and 10% of the Company's outstanding accounts receivable balance. As of December 31, 2021, three customers represented 13%, 11% and 10% of the Company's outstanding accounts receivable balance.

Accounts Receivable—Related Parties

These amounts represent reimbursement of vendor payments from related parties and outstanding billings with a customer.

ATLAS SAND COMPANY, LLC
NOTES TO THE UNAUDITED CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

Inventories

Inventories include raw sand stockpiles, in-process product, and finished product available for shipment. Inventories are valued at the lower of cost or net realizable value. Cost is determined using a weighted average cost method. Production costs include direct excavation costs, production personnel and benefits costs, processing costs, rental equipment costs, other costs directly attributable to plant operations, depreciation, and depletion.

Spare Part Inventories

Spare part inventories include critical spares, materials and supplies. Spare part inventories are valued at the lower of cost or net realizable value. Cost is determined using a weighted average cost method. As of March 31, 2022 and December 31, 2021, no spare parts inventory reserve was deemed necessary.

Prepaid Expenses and Other Current Assets

Prepaid expenses consist primarily of prepaid software fees, delay rental payments on leased land, insurance, trade show fees and sales events. These expenses are recognized over the contract period as events occur or when the future benefit is realized. As of March 31, 2022 and December 31, 2021, prepaid expenses were \$1.2 million and \$2.7 million, respectively. Other current assets consist of certain short-term supplier deposits for leased equipment, which were de minimis and \$1.2 million as of March 31, 2022 and December 31, 2021, respectively. The Company has entered into commodity derivative instruments to reduce the effect of price changes on a portion of the Company's future natural gas usage at the facilities. The commodity derivative instruments are measured at fair value using Level 2 inputs and are included in prepaid expenses and other current assets on the consolidated balance sheets. As of March 31, 2022 and December 31, 2021, the current derivative asset was \$1.0 million and \$0.2 million, respectively. The Company has not designated any of the derivative contracts as fair value or cash flow hedges. Therefore, the Company does not apply hedge accounting to the commodity derivative instruments. Net gains and losses on commodity derivatives instruments are recorded based on the changes in the fair values of the derivative instruments and are included in other income (loss) on the consolidated statements of operations. For the three months ended March 31, 2022, net gains on commodity derivatives instruments were \$0.9 million. There was no commodity derivative activity for the three months ended March 31, 2021. The Company's cash flow is only impacted when the actual settlements under the commodity derivative contracts result in making or receiving a payment to or from the counterparty. These settlements under the commodity derivative contracts are reflected as operating activities in the Company's consolidated statements of cash flows.

Any premiums paid on derivative contracts are capitalized as part of the derivative assets or derivative liabilities, as appropriate, at the time the premiums are paid. Premium payments are reflected in cash flows from operating activities in the Company's consolidated statements of cash flows. Over time, as the derivative contracts settle, the differences between the cash received and the premiums paid or fair value of contracts acquired are recognized in net gains or losses on commodity derivative contracts, and the cash received is reflected in cash flows from operating activities in the Company's consolidated statements of cash flows.

The Company's valuation estimate takes into consideration the counterparties' credit worthiness, the Company's credit worthiness, and the time value of money. The consideration of these factors

ATLAS SAND COMPANY, LLC
NOTES TO THE UNAUDITED CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

result in an estimated exit-price for each derivative asset or liability under a market place participant's view. Management believes that this approach provides a reasonable, non-biased, verifiable, and consistent methodology for valuing commodity derivative instruments.

Property, Plant and Equipment, Including Depreciation and Depletion

Property, plant and equipment are recorded at cost and depreciated over their estimated useful lives using either the straight-line method or the units of production method. Construction in progress is comprised of assets which have not been placed into service and is not depreciated until the related assets or improvements are ready to be placed into service.

Interest incurred during the construction of plant facilities was capitalized. Capitalized interest was recorded within plant facilities associated with productive, depletable properties, until the plant facilities were placed into service, and is being amortized using the units of production method. The Company did not capitalize interest for the three months ended March 31, 2022 and 2021.

Costs of improvements that extend economic life or improve service potential are capitalized and depreciated over the remaining useful life of the asset, with routine repairs and maintenance expensed as incurred.

Fixed assets, other than plant facilities associated with productive, depletable properties, are carried at historical cost and are depreciated using the straight-line method over the estimated useful lives of the assets as follows:

Plant facilities and equipment	3 – 40 years
Furniture and office equipment	3 – 15 years
Asset retirement obligations	50 years
Computer and network equipment	3 – 7 years
Buildings and leasehold improvements	31 months – 40 years

Mine development project costs are capitalized once the deposit is classified as a proven and probable reserve. Mine development costs include engineering, mineralogical studies, drilling and other related costs to develop the mine and remove the overburden to initially expose the mineral and allow for the construction of an access way. Exploration costs are expensed as incurred and classified as exploration expense.

Mining property and development costs are amortized using the units of production method on estimated recoverable tonnage, which equals estimated proven and probable reserves. The impact to reserve estimates is recognized on a prospective basis. Drilling and related costs are capitalized for deposits where proven and probable reserves exist. These activities are directed at obtaining additional information on the deposit or converting non-reserve minerals to proven and probable reserves, with the benefit being realized over a period greater than one year.

The Company reviews property, plant, and equipment for impairment annually or whenever events or changes in circumstances indicate that the carrying value of such assets may not be recoverable. If such a review should indicate that the carrying amount of long-lived assets is not recoverable, the Company will reduce the carrying amount of such assets to fair value.

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Asset Retirement Obligations

In accordance with ASC 410-20, Asset Retirement Obligations, the Company records a liability for asset retirement obligations at the fair value of the estimated costs to retire a tangible long-lived asset at the time the liability is incurred, when there is a legal obligation to incur costs to retire the asset and when a reasonable estimate of the fair value of the obligation can be made. The Company has asset retirement obligations with respect to certain assets due to various contractual obligations to clean and/or dispose of those assets at the time they are retired.

A liability for the fair value of an asset retirement obligation, with a corresponding increase to the carrying value of related long-lived assets, is recognized at the time of an obligating event. The asset is depreciated using the straight-line method, and the discounted liability is increased through accretion over the expected timing of settlement.

The estimated liability is based on third-party estimates of costs to abandon the mine site, including estimated economic lives and external estimates as to the cost to bring the land to a state required by the lease agreements. The Company utilized a discounted rate reflecting management's best estimate of the credit-adjusted risk-free rate. Revisions to the liability could occur due to changes in the estimated costs, changes in the mine's economic life or if federal or state regulators enact new requirements regarding the abandonment of mine sites. Accretion expense, which was de minimis for both the three months ended March 31, 2022 and 2021, is recorded on the consolidated statement of operations in depreciation, depletion and accretion expense.

Deferred Revenues

The Company occasionally receives prepayments from customers for future deliveries of product. These prepayments represent consideration that is unconditional for which the Company has yet to transfer title to the product. Amounts received from customers in advance of product deliveries are recorded as contract liabilities referred to as deferred revenues and are recognized as revenue upon delivery of the product. The Company recognized \$1.1 million and \$2.0 million of deferred revenue on the Company's consolidated balance sheets as of March 31, 2022 and December 31, 2021, respectively.

Changes in the deferred revenues balance are as follows (in thousands):

	March 31, 2022	December 31, 2021
Beginning Balance	\$ 2,000	\$ —
Customer prepayments	—	2,280
Revenue recognized	(932)	(280)
Ending Balance	<u>\$ 1,068</u>	<u>\$ 2,000</u>

Deferred Debt Discount and Financing Costs

In connection with entering into the 2018 Term Loan Credit Facility, the Company delivered to the lender warrants for up to 41,299,845 Class D units. The right to purchase Class D units became exercisable upon the funding of each draw under the 2018 Term Loan Credit Facility Agreement. The Company recognized a \$32.2 million debt discount associated with the warrants based on the relative fair value of the debt and warrants issued. In connection with the First Amendment to the 2018 Term

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Loan Credit Facility, the Company delivered to the lender additional warrants for up to 4,192,460 Class D units, which were exercisable upon funding of the draws in proportion to the additional drawings. The Company delivered 2,515,470 Class D units in connection with the First Amendment for the year ended December 31, 2020. Based on the relative fair value of the debt and warrants issued, the Company recognized \$2.2 million of debt discount associated with the warrants delivered for the year ended December 31, 2020. The Company did not issue warrants for three months ended March 31, 2022 or the year ended December 31, 2021. All warrants delivered have been exercised by the lender. There are no outstanding warrants as of March 31, 2022 and December 31, 2021. In connection with entering into the Term Loan Credit Facility, the Company recognized \$1.8 million of debt discount related to fees paid to the lender for the year ended December 31, 2021. The debt discounts are reflected as a direct reduction from the carrying amount of the debt obligation on the Company's consolidated balance sheets. Such costs are amortized to interest expense using the effective interest method. The Company recognized \$0.1 million and \$2.2 million of interest expense associated with the amortization of the debt discounts for the three months ended March 31, 2022 and 2021, respectively.

The Company defers costs directly associated with acquiring third-party debt financing and these costs are amortized using the effective interest method over the life of the associated third-party debt financing. In connection with entering into the Term Loan Credit Facility and the 2018 Term Loan Credit Facility, the Company incurred \$0.8 million and \$2.3 million of deferred financing costs, respectively. These deferred financing costs are reflected as a direct deduction from the carrying amount of the related debt obligation on the Company's consolidated balance sheets.

In 2018, the Company entered into the ABL Credit Facility and incurred \$1.0 million of deferred financing costs. Deferred financing costs, net of amortization, related to the ABL Credit Facility are classified as deferred financing costs on the consolidated balance sheets. Deferred financing costs associated with the ABL Credit Facility are amortized on a straight-line basis over the life of the agreement and are recorded as interest expense in the consolidated statements of operations.

Interest expense associated with the amortization of deferred financing costs was \$0.1 million and \$0.2 million for the three months ended March 31, 2022 and March 31, 2021, respectively.

Fair Value of Financial Instruments

Fair value is defined as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. Fair value is estimated by applying the following hierarchy, which prioritizes the inputs used to measure fair value into three levels and bases the categorization within the hierarchy upon the lowest level of input that is available and significant to the fair value measurement:

Level 1—Quoted prices in active markets for identical assets or liabilities.

Level 2—Observable inputs other than quoted prices in active markets for identical assets and liabilities, quoted prices for identical or similar assets or liabilities in inactive markets or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities.

Level 3—Inputs that are generally unobservable and typically reflect management's estimate of assumptions that market participants would use in pricing the asset or liability.

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The amounts reported in the balance sheets as current assets or liabilities, including cash and cash equivalents, accounts receivable, spare parts inventories, inventories, prepaid expenses and other current assets, accounts payable, accrued liabilities and deferred revenues approximate fair value due to the short-term maturities of these instruments. As of the dates indicated, the Company's long-term debt consisted of the following (in thousands):

	At March 31, 2022		At December 31, 2021		Valuation Technique
	Carrying Value	Fair Value	Carrying Value	Fair Value	
Financial liabilities:					
Outstanding principal amount of the Term Loan Credit Facility	\$ 171,386	\$ 173,100	\$ 175,275	\$ 177,028	Level 2—Market Approach

The Company's Term Loan Credit facility bears interest at a fixed rate of 8.47%, where its fair value will fluctuate based on changes in interest rates and credit quality. As of March 31, 2022 and December 31, 2021, the Company determined the fair value of the principal amount outstanding under the Term Loan Credit Facility based on the relative discount received in the Term Loan Credit Facility agreement executed in October 2021. See Note 6, Debt, for discussion of the Term Loan Credit Facility agreement. The Company concluded, as the pricing of the Term Loan Credit Facility was indirectly observable through a recent market transaction, that is classified as Level 2.

Environmental Costs and Other Contingencies

The Company recognizes liabilities for environmental and other contingencies when there is an exposure that indicates it is both probable that a liability has been incurred and the amount of loss can be reasonably estimated. Where the most likely outcome of a contingency can be reasonably estimated, the Company accrues a liability for that amount. Where the most likely outcome cannot be estimated a range of potential losses is established and, if no one amount in that range is more likely than any other, the amount at the low end of that range is accrued.

The Company records liabilities for environmental contingencies at the undiscounted amounts on the consolidated balance sheets as accrued liabilities and other liabilities when environmental assessments indicate that remediation efforts are probable, and costs can be reasonably estimated. Estimates of the liabilities are based on currently available facts and presently enacted laws and regulations, taking into consideration the likely effects of other societal and economic factors. These estimates are subject to revision in future periods based on actual costs or new circumstances. The Company capitalizes costs that benefit future periods and recognizes a current period charge in operations and maintenance expenses when clean-up efforts do not benefit future periods.

The Company evaluates potential recoveries of amounts from third parties, including insurance coverage, separately from the liability. Recovery is evaluated based on the solvency of the third party, among other factors. When recovery is assured, the Company records and reports an asset separately from the associated liability on the consolidated balance sheets.

Management is not aware of any environmental or other contingencies that would have a material effect on the consolidated financial statements as of March 31, 2022 and December 31, 2021.

Revenues

Under ASC Topic 606-Revenue from Contracts with Customers ("ASC 606"), revenue recognition is based on the transfer of control, or the customer's ability to benefit from the services and products in

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an amount that reflects the consideration expected to be received in exchange for those services and products. In recognizing revenue for products and services, the transaction price is determined from sales orders or contracts with customers.

The Company generates revenues from the sale of product that customers purchase for use in the oil and gas industry. Revenues are derived from product sold to customers under supply agreements, whose terms can extend for over one year, and from spot sales through individual purchase orders executed at prevailing market rates. The Company's revenues are primarily a function of the price per ton realized and the volumes sold. Pricing structures under the supply agreements are, in certain cases, subject to certain contractual adjustments and consist of a combination of negotiated pricing and fixed pricing. These arrangements may undergo periodic negotiations regarding pricing and volume requirements, which may occur in volatile market conditions.

The Company recognizes revenue for product at a point in time following the transfer of control and satisfaction of the performance obligation of such items to the customer, under ASC 606, which typically occurs upon customer pick-up at the facilities. The Company's standard collection terms are generally 30 days, with certain customer payment terms extending up to 60 days.

Certain of the Company's contracts contain shortfall provisions that calculate agreed upon fees that are billed when the customer does not meet the minimum purchases over a period of time defined in each contract and when collectability is reasonably certain. As the Company does not have the ability to predict customers' orders over the period, there are constraints around the ability to recognize the variability in consideration related to this condition. The Company did not recognize shortfall revenue for the three months ended March 31, 2022 and 2021.

The Company generates service revenue by providing transportation, storage solutions and contract labor services to companies in the oil and gas industry. Transportation services typically consist of transporting product from the plant facilities to the wellsite. The amounts invoiced reflects the transportation services rendered. The amount invoiced for storage solutions and contract labor services reflect the amount of time these services were utilized in the billing period. Transportation, storage solutions and contract labor services are contracted through work orders executed under established pricing terms.

The Company's contracts for product consist of a single performance obligation as the promise to transfer product is not separately identifiable from other promises within the contract and, therefore, are not distinct. For the portion of the Company's contracts that contain multiple performance obligations, such as work orders containing a combination of product and services, the Company allocates the transaction price to each performance obligation identified in the contract based on relative stand-alone selling prices, or estimates of such prices, and recognize the related revenue as control of each individual product or service is transferred to the customer, in satisfaction of the corresponding performance obligations.

All of the Company's revenue is generated from product and service sales in Texas and New Mexico. As such, no further disaggregation of revenue information is provided.

The Company has elected to use the ASC 606 practical expedients, pursuant to which it has excluded disclosures of transaction prices allocated to remaining performance obligations and when it expects to recognize such revenue. The remaining performance obligations are primarily comprised of unfulfilled contracts to deliver product, most of which hold a remaining duration of less than one year,

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and of which ultimate transaction prices will be allocated entirely to the unfulfilled contracts. The Company's transaction prices under these contracts may be impacted by market conditions and potential contract negotiations, which have not yet been determined, and are therefore variable in nature.

Unit-Based Compensation

The Company awards incentive units to members of management, consultants and employees as incentive compensation. The Company accounts for these awards under the measurement and recognition provisions of Accounting Standards Codification ("ASC") 718, Compensation – Stock Compensation. The Company accounts for unit-based compensation by amortizing the fair value of the units, which is determined at the grant date, over the applicable vesting period for each tranche of the award using a graded vesting methodology.

The Company accounts for forfeitures as they occur and reverses any previously recognized unit-based compensation expense for the unvested portion of the awards that were forfeited. The Company did not recognize any forfeitures during the three months ended March 31, 2022 and 2021. Unit-based compensation expense is recognized as selling, general and administrative expense on the Company's consolidated statements of operations.

Cost of Sales, Excluding Depreciation, Depletion and Accretion Expense

Cost of sales, excluding depreciation, depletion and accretion expense, related to product sales primarily consists of the cost to produce product, including direct and indirect labor, employee housing costs, excavation costs, rental equipment, maintenance expense, utilities, natural gas and royalty expense.

Cost of sales, excluding depreciation, depletion and accretion expense, related to service sales primarily consists of direct and indirect labor, transportation costs and rental equipment.

Cost of sales, excluding depreciation, depletion and accretion expense, related to product sales was \$19.8 million and \$13.7 million for the three months ended March 31, 2022 and 2021, respectively. Cost of sales, excluding depreciation, depletion and accretion expense, related to service sales was \$4.6 million and \$5.2 million for the three months ended March 31, 2022 and 2021, respectively.

Selling, General and Administrative Expense

Selling, general and administrative expense primarily consists of non-production personnel wages and benefits, insurance expense, travel and entertainment, advertising expense, professional fees, rent expense for the Company's corporate office and office supplies, among other expenses to support the business.

Income Taxes

The Company is a limited liability company. As a limited liability company, the Company has elected to be treated as a partnership for income tax purposes and, therefore, is not subject to federal income tax. The Company's taxable income or loss, which may differ significantly from taxable income reportable to members as result of differences between the tax basis and financial reporting basis of assets and liabilities and the taxable income allocation requirements under the Company's current LLC

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Agreement, is included in the federal income tax returns of each member. Accordingly, there is no provision for federal income taxes in the accompanying consolidated financial statements. However, the Company's operations located in Texas are subject to an entity-level tax, the Texas margin tax, at a statutory rate of up to 0.75% of income that is apportioned to Texas. Deferred tax assets and liabilities are recognized for future Texas margin tax consequences attributable to differences between the financial statement carrying amount of existing assets and liabilities and their respective Texas margin tax bases. As of March 31, 2022 and December 31, 2021, the Company's net long-term deferred tax liabilities related solely to carrying value differences associated with the Company's property, plant and equipment.

The Company evaluates the uncertainty in tax positions taken or expected to be taken in the course of preparing the consolidated financial statements to determine whether the tax positions are more likely than not of being sustained by the applicable tax authority. However, the conclusions regarding the evaluation are subject to review and may change based on factors including, but not limited to, ongoing analysis of tax laws, regulations, and interpretations thereof. As of March 31, 2022 and December 31, 2021, the Company did not have any liabilities for uncertain tax positions or gross unrecognized tax benefits. The Company's income tax returns from 2018, 2019, 2020 and 2021 are subject to examinations by U.S. federal, state or local tax authorities. The IRS closed the examination of Company's federal tax returns for the taxable year ended December 31, 2018 with no change. The Company cannot predict or provide assurance as to the ultimate outcome of any existing or future examinations.

Segments

The Company operates as one operating segment. Operating segments are defined as components of an enterprise for which separate financial information is evaluated regularly by the chief operating decision maker ("CODM"). The Company's CODM was collectively its Chairman of the Board and Chief Executive Officer, Chief Operating Officer, and Chief Financial Officer.

The CODM evaluates the Company's financial information and performance on a consolidated basis for purposes of making operating decisions and allocating resources. The Company operates with centralized functions and delivers most of its products and services in a similar way to all customers.

Recently Issued Accounting Pronouncements

Rate Reform—In March 2020, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") 2020-04, *Reference Rate Reform (Topic 848): Facilitation of the Effects of Reference Rate Reform on Financial Reporting*, which provides optional guidance for a limited time to ease the potential burden in accounting for reference rate reform. The new guidance provides optional expedients and exceptions for applying GAAP to contracts, hedging relationships and other transactions affected by reference rate reform if certain criteria are met. The amendments apply only to contracts and hedging relationships that reference LIBOR or another reference rate expected to be discontinued due to reference rate reform. These amendments are effective immediately and may be applied prospectively to contract modifications made and hedging relationships entered into or evaluated on or before December 31, 2022. The Company is evaluating the impact of this standard on its consolidated financial statements and does not believe it will have a material impact on the consolidated financial statements.

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Financial Instruments—In June 2016, the FASB issued ASU 2016-13, *Financial Instruments— Credit Losses (Topic 326)*, which amends the guidance on the impairment of financial instruments. The standard adds an impairment model, referred to as current expected credit loss, which is based on expected losses rather than incurred losses. The standard applies to most debt instruments, trade receivables, lease receivables, reinsurance receivables, financial guarantees and loan commitments. Under the guidance, companies are required to disclose credit quality indicators disaggregated by year of origination for a five-year period. In May 2019, ASU 2016-13 was subsequently amended by ASU 2019-04, Codification Improvements to Topic 326, *Financial Instruments—Credit Losses*, ASU 2019-05, *Financial Instruments—Credit Losses (Topic 326): Targeted Transition Relief*. The new guidance is effective for fiscal years beginning after December 15, 2022. The Company is currently evaluating the impact of the ASU on the consolidated financial statements and does not believe it will have a material impact on the consolidated financial statements.

Leases—On January 1, 2022, the Company adopted ASU 2016-02, *Leases (Topic 842)*, as amended by other ASUs issued since February 2016, using the modified retrospective transition method applied at the effective date of the standard. By electing this option transition method, information prior to January 1, 2022 has not been restated and continues to be reported under the accounting standards in effect for the period (ASC Topic 840).

The Company elected the package of practical expedients permitted under the transition guidance within the new standard, including the option to carry forward the historical lease classifications and assessment of initial direct costs, account for lease and non-lease components as a single lease, and to not include leases with an initial term of less than 12 months in the lease assets and liabilities.

The adoption of ASC Topic 842 resulted in the recognition of finance lease right-of-use assets, operating lease right-of-use assets, and lease liabilities for finance and operating leases. As of January 1, 2022, the adoption of the new standard resulted in the recognition of finance lease right-of-use assets of \$0.7 million, including \$0.7 million reclassified from property, plant and equipment, net, and finance lease liabilities of \$0.6 million. Additionally, the Company recorded operating lease right-of-use assets of \$5.4 million and operating lease liabilities of \$7.1 million, including \$2.3 million and \$4.8 million recorded to other short-term liabilities and other long-term liabilities, respectively as of January 1, 2022. There was no significant impact to the condensed consolidated statements of income, equity or cash flows. Refer to Note 5, *Leases*, for additional disclosures required under ASC Topic 842.

Note 3—Inventories

Inventories consisted of the following (in thousands):

	March 31, 2022	December 31, 2021
Raw materials	\$ 19	\$ 2
Work-in-process	2,236	2,747
Finished goods	302	450
Inventories	<u>\$ 2,557</u>	<u>\$ 3,199</u>

No inventory reserve was deemed necessary as of March 31, 2022 and December 31, 2021.

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Note 4—Property, Plant and Equipment, Net

Property, plant and equipment, net, consisted of the following (in thousands):

	March 31, 2022	December 31, 2021
Plant facilities associated with productive, depletable properties	\$ 243,603	\$ 243,383
Plant equipment	239,200	237,845
Land	3,009	3,009
Furniture and office equipment	1,230	1,230
Computer and network equipment	1,541	1,541
Buildings and leasehold improvements	23,633	24,763
Construction in progress	26,577	18,524
Property, plant and equipment	538,793	530,295
Less: Accumulated depreciation and depletion	(77,770)	(71,978)
Property, plant and equipment, net	<u>\$ 461,023</u>	<u>\$ 458,317</u>

Depreciation and depletion expense recognized in depreciation, depletion and accretion expense was \$5.0 million and \$1.2 million for the three months ended March 31, 2022, respectively. Depreciation and depletion expense recognized in depreciation, depletion and accretion expense was \$4.4 million and \$1.0 million for the three months ended March 31, 2021, respectively. Depreciation expense recognized in selling, general and administrative expense was \$0.3 million for both the three months ended March 31, 2022 and 2021.

For the year ending December 31, 2021, the Company has capital leases that are reported as part of plant equipment. The amortization of capital leases is included in depreciation expense. As of December 31, 2021, the Company had capital leases with a cost of \$1.5 million and accumulated depreciation of \$0.9 million. The Company recognized \$0.1 million of depreciation expense associated with capital leases for the three months ended March 31, 2021. On January 1, 2022, the Company adopted ASU Topic 842. Refer to Note 5, Leases, for additional disclosures required under ASC Topic 842.

Note 5—Leases

The Company has operating and finance leases primarily for vehicles, equipment, and office space. The terms and conditions for these leases vary by the type of underlying asset.

Certain leases include variable lease payments for items such as property taxes, insurance, maintenance, and other operating expenses associated with leased assets. Payments that vary based on an index or rate are included in the measurement of lease assets and liabilities at the rate as of the commencement date. All other variable lease payments are excluded from the measurement of lease assets and liabilities, and are recognized in the period in which the obligation for those payments is incurred.

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The components of lease expense for the three months ended March 31, 2022 are as follows (in thousands):

	March 31, 2022
Finance lease cost:	
Amortization of right-of-use assets	\$ 201
Interest on lease liabilities	50
Operating lease cost	385
Variable lease cost	183
Short-term lease cost	1,129
Total lease cost	<u>\$ 1,948</u>

Supplemental cash flow and other information related to leases for the three months ended March 31, 2022 are as follows (in thousands):

	March 31, 2022
Cash paid for amounts included in the measurement of lease liabilities:	
Operating cash outflows from operating leases	\$ 441
Operating cash outflows from finance leases	\$ 49
Financing cash outflows from finance leases	\$ 175
Right-of-use assets obtained in exchange for new lease liabilities:	
Operating leases	\$ 5,384
Finance leases	\$ 3,951

During the three months ended March 31, 2022, the Company modified an agreement which related to certain operating right-of-use assets of \$1.3 million and liabilities of \$1.3 million, the change in terms increased the amount, extended the term, and resulted in finance lease classification. In connection with this modification, the Company recognized finance lease right-of-use assets of \$3.2 million and liabilities of \$3.2 million. There was no gain or loss recognized as a result of these amendments.

Lease terms and discount rates as of March 31, 2022 are as follows (in thousands):

	March 31, 2022
Weighted-average remaining lease term:	
Operating leases	5.2 years
Finance leases	4.4 years
Weighted-average discount rate:	
Operating leases	3.5%
Finance leases	7.7%

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Future minimum lease commitments as of March 31, 2022 are as follows (in thousands):

	Finance	Operating
Remainder of 2022	\$ 907	\$ 864
2023	1,049	1,059
2024	894	1,076
2025	807	1,104
2026	807	1,131
Thereafter	—	681
Total lease payments	4,464	5,915
Less inputted interest	(724)	(530)
Total	\$ 3,740	\$ 5,385

Supplemental balance sheet information related to the Company's leases as of March 31, 2022 was as follows (in thousands):

	Classification	March 31, 2022
Operating Leases		
Current operating lease liabilities	Other current liabilities	\$ 957
Noncurrent operating lease liabilities	Other long-term liabilities	\$ 4,428
Finance Leases		
Current finance lease liabilities	Other current liabilities	\$ 851
Noncurrent finance lease liabilities	Other long-term liabilities	\$ 2,889

On May 16, 2022, Atlas entered into a master lease agreement with Stonebriar Commercial Finance for the right, but not the obligation, to require Stonebriar Commercial Finance to fund up to \$70.0 million of purchases of transportation and logistics equipment. The interim financing for down payments on any purchased equipment is based on one-month SOFR, plus 8.0%. The final interest rate will be set upon acceptance of the equipment based on the terms of the agreement.

Note 6—Debt

Debt consists of the following (in thousands):

	March 31, 2022	December 31, 2021
Term Loan Credit Facility	\$ 173,720	\$ 177,539
Less: Debt discount, net of accumulated amortization of \$199 and \$89, respectively	(1,601)	(1,711)
Less: Deferred financing fees, net of accumulated amortization of \$83 and \$29 respectively	(733)	(553)
Less: Current portion(a)	(15,890)	(15,563)
Long-term debt	\$ 155,496	\$ 159,712

(a) The current portion of long-term debt reflects payments based on the terms of the Term Loan Credit Facility.

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Term Loan Credit Facility

On October 20, 2021, the Company entered into a \$180 million, aggregate principal amount, Term Loan Credit Facility which bears an interest rate of 8.47% per annum on borrowings outstanding under the facility with Stonebriar Commercial Finance, LLC (the "Term Lender") and has a maturity date of October 1, 2027. The Term Loan Credit Facility is guaranteed on a secured basis and interest, plus principal, is payable in seventy-two consecutive monthly installments.

At any time prior to the October 1, 2027, maturity date, the Company may redeem the Term Loan Credit Facility, in whole or in part, at a price equal to 100% of the principal amount plus a prepayment fee. The prepayment fee ranges from 3% on or before October 20, 2022, to 2% after October 20, 2022, and on or before October 20, 2023, and 1% thereafter. Upon maturity of the Term Loan Credit Facility, the entire unpaid principal amount, together with interest, fees and other amounts payable in connection with the facility, is immediately due and payable without further notice or demand.

The Term Loan Credit Facility includes certain non-financial covenants, including but not limited to restrictions on incurring additional debt and certain restricted payments. The Term Loan Credit Facility is not subject to financial covenants unless greater than \$5.0 million or more in aggregate is outstanding under the Company's ABL Credit Agreement and for which a minimum average liquidity balance of \$20.0 million must be maintained. The Term Loan Credit Facility requires certain debt prepayment, not subject to a prepayment penalty fee, concurrent with a Company equity distribution. The Company is required to make a prepayment in an amount equal to one-third or one-fourth of the total equity distribution, based on a pro forma leverage ratio as defined in the Term Loan Credit Agreement. In April 2022, the Board of Managers approved a \$15 million equity distribution. In May 2022, the Company paid the \$15 million equity distribution and concurrently paid \$5.0 million of the Term Loan Credit Facility as required by the terms described above.

Proceeds from the Term Loan Credit Facility were used exclusively for general corporate purposes, which included the repayment of outstanding indebtedness under the 2018 Term Loan Credit Facility, and to make permitted distributions. As of March 31, 2022, the Company was in compliance with the covenants of the Term Loan Credit Facility.

Asset-Based Loan Credit Facility

On December 14, 2018, the Company closed on the Asset-Based Loan Credit Facility ("ABL Credit Facility") that provides revolving credit financing with a borrowing capacity of up to \$50.0 million. The ABL Credit Facility is unconditionally guaranteed, jointly and severally, by the Company and its subsidiaries. The ABL Credit Facility will mature on the earlier of the stated maturity date, December 14, 2023, or the date that is 91 days prior to the maturity date of the 2018 Term Loan Credit Facility; that is November 1, 2022. As of March 31, 2022 and December 31, 2021, the Company had no outstanding borrowings under the ABL Credit Facility.

The ABL Credit Facility includes a letter of credit sub-facility, which permits issuances of letters of credit up to an aggregate amount of \$10.0 million. As of March 31, 2022 and December 31, 2021, the Company had a \$0.4 million and \$0.6 million outstanding letter of credit under the ABL Credit Facility, respectively.

The Company may also request swingline loans under the agreement in an aggregate principal amount not to exceed \$7.5 million. During the three months ended March 31, 2022 and the year ended December 31, 2021, the Company had no outstanding swingline loans under the ABL Credit Facility.

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Obligations under the ABL Credit Facility were secured by a first-priority lien on substantially all assets of the Company, until September 9, 2019, when the lenders and the Company entered into the split collateral intercreditor agreement, at which time the ABL Credit Facility became secured by a first-priority lien on inventory and accounts receivable held by the Company and its subsidiaries, and a second-priority lien on the remaining assets of the Company.

Initially, the borrowing base was set at \$35.0 million for the period beginning on December 14, 2018 and ending on April 1, 2019. Thereafter, the amount of available credit changes every month, depending on the amount of eligible accounts receivable and inventory the Company has available to serve as collateral. For the period beginning on April 1, 2019, and ending on June 30, 2019, the facility was limited to the lesser of (a) 85% to 90% of the eligible accounts receivable and (b) 75% of the market value of the eligible inventory. Thereafter, the facility is limited to the lesser of (i) the aggregate commitment and (ii) the sum of (a) 85% to 90% of the eligible accounts receivable and (b) lesser of 70% of the cost of the eligible inventory and 85% of the orderly liquidation value of the eligible inventory. The borrowing base components are subject to customary reserves and eligibility criteria. As of March 31, 2022, availability was \$26.0 million.

Borrowings under the ABL Credit Facility bear interest, at the Company's option, at either a base rate or London Interbank Offered Rate ("LIBOR"), as applicable, plus an applicable margin that ranges based on average excess availability. LIBOR loans bear interest at the LIBOR plus an applicable margin, which ranges from 1.50% to 2.00%. Base rate loans bear interest at the applicable base rate, plus an applicable margin, which ranges from 0.50% to 2.00%. In addition to paying interest on outstanding principal under the ABL Credit Facility, the Company is required to pay a commitment fee of 0.375% per annum with respect to the unutilized commitment under the ABL Credit Facility, based on the average utilization of the ABL Credit Facility. The Company is also required to pay customary letter of credit fees, to the extent that one or more letter of credit is outstanding. There were no outstanding borrowings under the ABL Credit Facility as of March 31, 2022. The Company recognized de minimis interest expense, unutilized commitment fees and other fees under the ABL Credit Facility, classified as interest expense, for the three months ended March 31, 2022 and 2021.

The ABL Credit Facility requires that if the excess availability, as defined, is less than the greater of (i) 12.50% of the maximum credit and (ii) \$5.0 million, the Company shall comply with a minimum fixed charge coverage ratio of at least 1.00 to 1.00, for covenant trigger periods beginning after March 14, 2019. In addition, the ABL Credit Facility contains negative covenants that restrict the Company from, among other things, incurring additional debt, granting liens, entering into guarantees, entering into certain mergers, making certain loans and investments, entering into swap agreements, disposing of assets, prepaying certain debt, declaring dividends, accounting changes, transactions with affiliates, modifying certain material agreements or organizational documents relating to, or changing the business it conducts.

The ABL Credit Facility contains certain customary representations and warranties, affirmative covenants, and events of default, including, among other things, payment defaults, breach of representations and warranties, covenant defaults, cross-defaults and cross-acceleration to certain indebtedness, certain events of bankruptcy, certain events of abandonment, certain events under the Employee Retirement Income Security Act of 1974 as amended from time to time, material judgments, actual or asserted failure of any guaranty or security document supporting the ABL Credit Facility to be in full force and effect and change of control. If such an event of default occurs, the lenders under the ABL Credit Facility would be entitled to take various actions, including the acceleration of amounts due under the ABL Credit Facility and all actions permitted to be taken by a secured creditor. As of March 31, 2022, the Company was in compliance with the covenants of the ABL Credit Facility.

ATLAS SAND COMPANY, LLC
NOTES TO THE UNAUDITED CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

Fourth Amendment to the ABL Credit Facility

On March 23, 2021, the Company and the lenders agreed to amend certain terms of the ABL Credit Facility, including expanding the list of assets available for the calculation of available credit. Subsequent to the execution of the Fourth Amendment to the ABL Credit Facility ("Fourth Amendment"), the facility is limited to the lesser of (i) the aggregate commitment and (ii) the sum of (a) 90% of the book value of eligible accounts receivable, (b) lesser of 100% Pledged Cash, defined on any date, as the aggregate amount of unrestricted cash on deposit in the cash collateral account, and \$25.0 million, and (c) the lesser of 70% of the cost of eligible inventory and 85% of the net orderly liquidation value of the eligible inventory. The Company is required to keep cash on deposit in the cash collateral account only to the extent any outstanding borrowings under the ABL Credit Facility exceed the portion of the borrowing base represented by accounts receivable and inventory. The borrowing base components are subject to customary reserves and eligibility criteria. Additionally, the Fourth Amendment contains provisions addressing the potential transition from LIBOR to a secured overnight financing rate ("SOFR"), in the event the administrator has ceased or will cease publication of LIBOR.

Fifth Amendment to the ABL Credit Facility

On October 20, 2021, the Company and the lender agreed to amend certain terms of the ABL Credit Facility, to, among other things, allow the Company to enter into the Term Loan Credit Facility with Stonebriar Commercial Finance (the "Term Loan Credit Facility"), to repay all borrowings outstanding under the 2018 Term Loan Credit Facility and to conform certain covenants under the ABL Credit Facility to the Term Loan Credit Facility.

2018 Term Loan Credit Facility

On January 30, 2018, the Company closed on the 2018 Term Loan Credit Facility that provided debt financing in an aggregate principal amount of \$150.0 million, which was funded in a series of tranches during 2018. The Company refers to these borrowings, collectively, as the "2018 Term Loan Credit Facility." In connection with the 2018 Term Loan Credit Facility, the Company delivered to the lender warrants for up to 41,299,845 Class D units. See Note 8, Equity, for further discussion.

Obligations under the 2018 Term Loan Credit Facility were secured by a second-priority lien on substantially all assets of the Company, until September 9, 2019, when the lenders and the Company entered into the split collateral intercreditor agreement, at which time the 2018 Term Loan Credit Facility became secured by a second-priority lien on inventory and accounts receivable held by the Company and its subsidiaries, and a first-priority lien on the remaining assets of the Company. In addition, the Company's subsidiaries had guaranteed the Company's obligations under the 2018 Term Loan Credit Facility and had granted to the lender security interests in substantially all respective assets.

Borrowings under the 2018 Term Loan Credit Facility bore interest equal to the lesser of (1) the applicable interest rate, which was set at either 10% or 13% per annum, based upon the Company's consolidated leverage ratio or (2) the highest lawful rate, as defined in the 2018 Term Loan Credit Facility agreement. The Company, at its option, could pay up to 50% of any interest payment in-kind. The interest rate for the 2018 Term Loan Credit Facility was 13% as of December 31, 2020. The Company recognized interest expense associated with the 2018 Term Loan Credit Facility of \$6.1 million for the three months ended March 31, 2021.

The 2018 Term Loan Credit Facility would have matured on January 30, 2023, and, for certain loans, would amortize in quarterly installments equal to 1.00% of the aggregate outstanding principal

ATLAS SAND COMPANY, LLC
NOTES TO THE UNAUDITED CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

balance as of each quarterly payment date beginning with the initial payment, which was made for the year ended December 31, 2018. Beginning on March 31, 2021, the quarterly principal payments increased to 5.00% of the aggregate outstanding principal balance, with the balance payable on the final maturity date, subject to the amend and extend provisions applicable under the agreement.

The Company had the option to voluntarily prepay the outstanding 2018 Term Loan Credit Facility along with all interest then accrued and unpaid, in whole or in part, and the applicable premium payment based upon either (a) the present value using a discount rate based upon a U.S. Treasury rate plus 50 basis points of the amount of interest that would have been payable on the principal balance prepaid if prior to January 30, 2020, (b) 7% of the principal balance prepaid, thereafter and prior to January 30, 2021, (c) 3% of the principal balance prepaid, anytime thereafter, or (d) 1% of the principal balance if prepaid upon the occurrence of an Initial Public Offering ("IPO") event.

The 2018 Term Loan Credit Facility contained customary representations and warranties and customary affirmative and negative covenants, including limits or restrictions on the Company's ability to incur liens, incur indebtedness, make certain restricted payments, merge or consolidate and dispose of assets. In addition, it contained customary events of default that entitled the lenders to cause any or all of the Company's indebtedness under the 2018 Term Loan Credit Facility to become immediately due and payable. The events of default (some of which were subject to applicable grace or cure periods) included, among other things, nonpayment defaults, covenant defaults, cross-defaults to other material indebtedness, bankruptcy and insolvency defaults and material judgment defaults. As of March 31, 2021, the Company was in compliance with the covenants of the ABL Credit Facility.

Fourth Amendment to the 2018 Term Loan Credit Facility

On April 13, 2020, the Company and the lender agreed to amend certain terms of the 2018 Term Loan Credit Facility to allow the Company to receive the Qualified Small Business Administration Loan in an amount not to exceed \$10.0 million.

Note 7—Commitments and Contingencies

Royalty Agreements

The Company has entered into a royalty agreement associated with its leased properties with a related party, under which it is committed to pay royalties on product sold from its production facilities for which the Company has received payment from the end customer. Royalty expense is recorded as the product is sold, is included in costs of sales, and totaled less than 10% of cost of sales for both the three months ended March 31, 2022 and 2021.

Standby Letters of Credit

As of March 31, 2022 and December 31, 2021, the Company had an outstanding standby letter of credit issued under the ABL Credit Facility \$0.4 million and \$0.6 million, respectively.

Purchase Commitments

On March 23, 2022, the Company entered into an agreement to purchase transportation and logistics equipment in the amount of \$5.2 million and \$26.2 million in 2022 and 2023, respectively, subject to customary terms and conditions. On April 20, 2022, the Company entered into an agreement to purchase transportation and logistics equipment in the amount of \$8.5 million and \$11.9 million in 2022 and 2023, respectively, subject to customary terms and conditions.

ATLAS SAND COMPANY, LLC
NOTES TO THE UNAUDITED CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

Litigation

The Company is involved in various legal and administrative proceedings that arise from time to time in the ordinary course of doing business. Some of these proceedings may result in fines, penalties or judgments being assessed against the Company, which may adversely affect financial results. In addition, from time to time, the Company is involved in various disputes, which may or may not be settled prior to legal proceedings being instituted and which may result in losses in excess of accrued liabilities, if any, relating to such unresolved disputes. Expenses related to litigation reduce operating income. The Company does not believe that the outcome of any of these proceedings or disputes would have a significant adverse effect on the financial position, long-term results of operations or cash flows. It is possible, however, that charges related to these matters could be significant to results of operations or cash flows in any single accounting period. Management is not aware of any legal, environmental or other commitments and contingencies that would have a material effect on the consolidated financial statements.

Note 8—Equity

The Company has authority to issue an unlimited number of units under its current capital structure and the ability to issue additional units of different classes or series. The outstanding units are designated as Class A units, Class C units, Class D units and Class P units. Additional units, of the same or different classes or series, having the same or different rights, powers and duties as preexisting units may be created and issued. All Class A, Class C, Class D and Class P unitholders as of March 31, 2022 and December 31, 2021, are deemed to be members of the Company ("Members").

On January 30, 2018, the Company executed the Third Amended and Restated Limited Liability Company Agreement of Atlas Sand Company, LLC ("LLC Agreement") to create Class D units as a class of unit that the Company is authorized to issue. This amendment was executed in connection with the issuance of the 2018 Term Loan Credit Facility. The Company delivered to the lender warrants for up to 41,299,845 Class D units, with an exercise price of \$0.01 per warrant unit, that became exercisable upon the funding of each draw under the 2018 Term Loan Credit Facility. During the year ended December 31, 2018, the lender exercised all 41,299,845 Class D warrants.

On April 3, 2019, the Company amended certain terms of the 2018 Term Loan Credit Facility. In connection with the First Amendment to the 2018 Term Loan Credit Facility ("First Amendment"), the Company delivered to the lender additional warrants for up to 4,192,460 Class D units, which were exercisable upon funding of the draws in proportion to the additional drawings. During the year ended December 31, 2020, the Company delivered and the lender immediately exercised the remaining 2,515,470 Class D warrants associated with the First Amendment. There were no warrants outstanding as of March 31, 2022 and December 31, 2021.

Each Member of the Company is entitled to one vote for each Class A, Class C and Class D unit owned by such Member. Class P units are issued in connection with the Company's long-term incentive plan and have no voting rights.

The Company's LLC Agreement contains provisions for the allocation of net income and loss to the Class A and Class D units. For purposes of maintaining Member capital accounts, the LLC Agreement specifies that net income or net loss shall be allocated proportionally among Members in accordance with their respective percentage ownership interest.

In accordance with the Company's LLC Agreement, all Class C units shall automatically convert to Class A units immediately prior to the closing of a Capital Event, as defined in the Company's LLC

ATLAS SAND COMPANY, LLC
NOTES TO THE UNAUDITED CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

Agreement, which, in general, includes a public offering or sale of the Company's assets or equity. Additionally, the holders of Class C units may elect, at any time prior to the approval of a Capital Event, to convert all Class C units into newly issued Class A units by providing notice to the Company.

The Company's LLC Agreement sets forth the calculation to be used to determine the amount of cash distributions that the unitholders will receive.

In December 2021, the Company paid a cash distribution to Class A and Class D unitholders in the aggregate amount of \$10.0 million, based on the Company's LLC Agreement calculation. Class C units do not participate in cash distributions, based on the terms of the Company's LLC Agreement.

Upon admittance as Members of the Company, the Class C unitholders were initially granted an option that entitles them to acquire a percentage of the units of the Company that are offered in conjunction with additional capital contribution events, as defined by the Company's LLC Agreement, which generally includes instances where additional units are issued by the Company. The option is not unconditional and can only be exercised upon the occurrence of certain capital events. The consideration for the exercise of the option is based on the percentage ownership of the Class C unitholders at the date of the capital event and the total capital to be contributed in connection with such capital event.

In October 2021, pursuant to the Company's LLC Agreement, the Company delivered a Funding Notice to the Atlas Sand Company, LLC unitholders (other than ASMC, which is the majority unitholder and had already made Additional Capital Contributions related to such Funding Notice), by which the Company offered each unitholder the right, but not the obligation, to make Additional Capital Contributions to the Company. In addition, the Company delivered a notice to the Class C unitholders pursuant to their option giving them the right to make additional capital contributions, which they exercised. The offering closed on December 1, 2021 and resulted in Additional Capital Contributions of \$12.6 million for the three months ended December 31, 2021.

In May 2022, the Company paid a cash distribution to Class A and Class D unitholders in the aggregate amount of \$15.0 million, based on the Company's LLC Agreement calculation. Class C units do not participate in cash distributions, based on the terms of the Company's LLC Agreement.

Note 9—Unit-Based Compensation

The Company recognizes unit-based compensation expense for awards granted under two long-term incentive plans, the Atlas Sand Management Company, LLC Long-Term Incentive Plan (the "ASMC Plan") and the Atlas Sand Company, LLC Long-Term Incentive Plan (the "ASCo Plan"). The ASMC Plan was adopted on September 15, 2017, by ASMC for officers, employees, directors, managers and consultants of the Company (the "ASMC Participants"). The ASCo Plan was adopted by the Company on December 15, 2017, for officers, employees, directors, managers, consultants or other advisors of the Company (the "ASCo Participants").

Equity awards granted by a parent company to employees of a subsidiary are recognized in the financial statements of the subsidiary. During the three months ended March 31, 2022 and 2021, the Company recognized \$0.1 million and de minimis of unit-based compensation expense in its consolidated statements of operations related to awards in the ASMC Plan, respectively.

On May 28, 2018, the Company adopted the Amended and Restated Long-Term Incentive Plan that reduced the authorized available awards to be issued under the ASCo Plan from 149,425 to

ATLAS SAND COMPANY, LLC
NOTES TO THE UNAUDITED CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

100,000. The ASCo Plan consists of equity grants of Class P units made to ASCo Participants at the discretion of the plan administrator. Pursuant to the terms of the ASCo Plan, to the extent that an award is canceled, any and all Class P units that are canceled and repurchased will be available again for new awards under the ASCo Plan.

The vesting schedule for each grant under the plans shall be determined by the respective plans' administrator.

A summary of ASCo's Class P unit activity is as follows (in thousands):

ASCo Plan Class P unit activity	Number of Class P Units	Weighted Average Grant Date Fair Value
Non-vested at December 31, 2021	2,833	\$ 151.57
Granted	2,200	151.57
Vested	(167)	151.57
Forfeited	—	—
Non-vested at March 31, 2022	<u>4,866</u>	<u>\$ 151.57</u>

The Company accounts for each tranche of the unit awards as compensatory awards in accordance with FASB ASC 718, and as such, compensation expense is recognized over the service condition vesting period based on the grant date fair values using a graded vesting methodology. To determine grant date fair value, the Company valued these unit awards utilizing a Monte Carlo option pricing model, to take into consideration the probability of a market condition on being met. This methodology involves making assumptions for the expected time to liquidity, volatility and risk-free rate.

The Company estimated expected volatility based on a 50/50 blend of historical and implied volatility. The risk-free interest rate is based on the yield on U.S. government bonds for a period commensurate with the expected term. The expected term is based on time to the expected exit date as of the valuation date based on the probability weighted average of exit scenario terms. The Company applies a discount to reflect the lack of marketability due to the absence of an active market for its shares. Further, the Company assumed no expected dividend yield.

For the three months ended March 31, 2022 and 2021, the Company recognized \$0.1 million and de minimis of unit-based compensation expense related to awards in the ASCo Plan, respectively.

As of March 31, 2022, unrecognized unit-based compensation expense amounts related to the ASCo and ASMC Plans were \$0.5 million and \$0.3 million, respectively, with a weighted average remaining service period of 1.5 years.

Note 10—Income Taxes

As a limited liability company, the Company has elected to be treated as a partnership for income tax purposes and, therefore, is not subject to federal income tax. However, the Company's operations located in Texas are subject to an entity-level tax, the Texas margin tax, at a statutory rate of up to 0.75% of income that is apportioned to Texas. The tax expense or benefit associated with the interim period is computed using the most recent estimated tax rate applied to the year-to-date revenues less cost of sales.

During the three months ended March 31, 2022 and 2021, the Company recognized income tax expense, associated with Texas margin tax, of \$0.2 million and \$0.1 million, respectively. Given the Company is a partnership, there is no federal income tax expense.

ATLAS SAND COMPANY, LLC
NOTES TO THE UNAUDITED CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

Note 11—Related-Party Transactions

The Company had one month-to-month lodging facility lease with a counterparty controlled by one member of the Company's Board of Managers. During the three months ended March 31, 2021, the Company recognized \$0.4 million of rent expense associated with these leases. The Company acquired the lodging facility in December 2021. Therefore, the Company did not incur rental expense on the lodging facility for the three months ended March 31, 2022.

On January 26, 2021, the Company entered into a Joint Development Agreement with, among others, a customer, which is controlled by one member of the Company's Board of Managers. Under the Joint Development Agreement, the Company has agreed to supply sand for certain wells to be drilled and completed the customer. As of March 31, 2022 and December 31, 2021, the Company's outstanding balance of related-party accounts receivable to this customer was \$0.1 million and \$0.1 million, respectively. For the three months ended March 31, 2022 and 2021, the Company did not recognize revenue under this agreement.

During the three months ended March 31, 2022 and 2021, the Company incurred \$0.5 million and \$0.3 million of expenses with members of the Company, including such activities as payroll reimbursements, business development activities, travel expenditures and other general business expenditures, respectively.

As of March 31, 2022 and December 31, 2021, the Company's outstanding balance of related-party accounts payable to these members was \$0.2 million and \$0.6 million, respectively.

Refer to other related party transaction as described in Note 7— *Commitments and contingencies*.

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Sole Director and Stockholder of Atlas Energy Solutions Inc.

Opinion on the Financial Statements

We have audited the accompanying balance sheet of Atlas Energy Solutions Inc. (the "Corporation") as of February 3, 2022 and the related notes (collectively referred to as the "financial statement"). In our opinion, the financial statement presents fairly, in all material respects, the financial position of the Corporation at February 3, 2022 in conformity with U.S. generally accepted accounting principles.

Basis for Opinion

The financial statement is the responsibility of the Corporation's management. Our responsibility is to express an opinion on the Corporation's financial statement based on our audit. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB and in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statement is free of material misstatement, whether due to error or fraud. The Corporation is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audit, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Corporation's internal control over financial reporting. Accordingly, we express no such opinion.

Our audit included performing procedures to assess the risks of material misstatement of the financial statement, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statement. Our audit also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statement. We believe that our audit provides a reasonable basis for our opinion.

/s/ Ernst & Young LLP

We have served as the Corporation's auditor since 2022.

Austin, Texas

July 29, 2022

ATLAS ENERGY SOLUTIONS INC.
BALANCE SHEET

	February 3, 2022
Assets	
Cash and cash equivalents	\$ 10
Total assets	<u>\$ 10</u>
Stockholders' equity	
Class A Common stock, \$0.01 par value, authorized 1,000 shares, 1,000 issued and outstanding at February 3, 2022	\$ 10
Total stockholders' equity	<u>\$ 10</u>

The accompanying notes are an integral part of these financial statements

**ATLAS ENERGY SOLUTIONS INC.
NOTES TO THE BALANCE SHEET**

Note 1—Organization and Basis of Presentation

Atlas Energy Solutions Inc. (“Atlas Inc.”) is a Delaware corporation formed on February 3, 2022. Atlas Inc’s fiscal year end is December 31. Atlas Inc. was formed with the intent that Atlas Inc. will be included in a reorganization into a holding corporation structure. It is anticipated that the Atlas Inc. will become a holding corporation and its sole material asset is expected to be an equity interest in Atlas Sand Company, LLC, a Delaware limited liability company (the “Company”).

This balance sheet has been prepared in accordance with accounting principles generally accepted in the United States. Separate statements of operations, changes in stockholders’ equity and of cash flows have not been presented because there have been no activities in this entity and because the single transaction is fully disclosed below. This balance sheet has been prepared assuming the Company will continue as a going concern, which contemplates, among other things, the realization of assets and satisfaction of liabilities in the normal course of business.

Note 2—Stockholders’ Equity

Atlas Inc. is authorized to issue 1,000 shares of Class A common stock, par value \$0.01 per share (“Class A Common Stock”). Under the Atlas Inc.’s certificate of incorporation in effect as of February 3, 2022, all shares of Class A Common Stock are identical. In exchange for \$10.00, the Corporation has issued 1,000 shares of Class A common stock, all of which were held by the Company as of February 3, 2022.

Note 3—Subsequent Events

Subsequent events have been evaluated through July 29, 2022, the date this balance sheet was issued.

GLOSSARY OF CERTAIN INDUSTRY TERMS

100-mesh frac sand: Sand that passes through a sieve with 40 holes per linear inch and is retained by a sieve with 140 holes per linear inch.

40/70-mesh frac sand: Sand that passes through a sieve with 40 holes per linear inch and is retained by a sieve with 70 holes per linear inch.

API: American Petroleum Institute.

Crush strength: A proppant is exposed to varying stress levels in one-thousand PSI increments. The crush strength classifies a proppant according to the stress at which 10% fines is generated. For example, a 7,000 PSI proppant would produce less than 10% fines at 7,000 PSI.

Frac sand: A proppant used in the completion and re-completion of unconventional oil and natural gas wells to stimulate and maintain oil and natural gas exploration and production through the process of hydraulic fracturing.

Hydraulic fracturing: The process of pumping fluids, mixed with granular proppants, into a geological formation at pressures sufficient to create fractures in the hydrocarbon-bearing rock.

Inferred resource: The part of a mineral resource for which quantity and grade or quality can be estimated on the basis of geological evidence and limited sampling and reasonably assumed, but not verified, geological and grade continuity. The estimate is based on limited information and sampling gathered through appropriate techniques from locations such as outcrops, trenches, pits, workings and drill holes.

Mesh size: Measurement of the size of a grain of sand indicating it will pass through a sieve of a certain size.

MMtpy: Means one million metric tons per year.

Natural gas: A mixture of hydrocarbons (principally methane, ethane, propane, butanes and pentanes), water vapor, hydrogen sulfide, carbon dioxide, helium, nitrogen and other chemicals that occur naturally underground in a gaseous state.

Overburden: Material such as soil and unusable sand that lies above the useable sand and must be removed to excavate the useable sand.

Probable reserves: Reserves for which quantity and grade and/or quality are computed from information similar to that used for proven reserves, but the sites for inspection, sampling and measurement are farther apart or are otherwise less adequately spaced. The degree of assurance, although lower than that for proven reserves, is high enough to assume continuity between points of observation.

Proppant: A sized particle mixed with fracturing fluid to hold fractures open after a hydraulic fracturing treatment.

Proven reserves: Reserves for which (a) quantity is computed from dimensions revealed in outcrops, trenches, workings or drill holes; grade and/or quality are computed from the results of detailed sampling and (b) the sites for inspection, sampling and measurement are spaced so closely and the geologic character is so well defined that size, shape, depth and mineral content of reserves are well-established.

Reserves: Sand that can be economically extracted or produced at the time of determination based on relevant legal, economic and technical considerations.

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Roundness: A measure of how round the curvatures of an object are. The opposite of round is angular. It is possible for an object to be round but not spherical (e.g. an egg-shaped particle is round, but not spherical). When used to describe proppant, roundness is a reference to having a curved shape which promotes hydrocarbon flow, as the curvature creates a space through which the hydrocarbons can flow.

Silica: A chemically resistant dioxide of silicon that occurs in crystalline, amorphous and cryptocrystalline forms.

Sphericity: A measure of how well an object is formed in a shape where all points are equidistant from the center. The more spherical a proppant, the more highly it is desired relative to non-spherical proppant, as the gaps created by it are typically the largest and this promotes maximum hydrocarbon flow.

Turbidity: Measurement of the level of contaminants, such as silt and clay, in a sample.

Shale play: A geological formation that contains petroleum and/or natural gas in nonporous rock that requires special drilling and completion techniques.

U.S. Energy Information Administration (EIA): The statistical and analytical agency within the U.S. Department of Energy.

Atlas Energy Solutions Inc.

Shares

Class A Common Stock

Until _____, 2022 (the 25th day after the date of this prospectus), all dealers effecting transactions in these securities, whether or not participating in this offering, may be required to deliver a prospectus. This is in addition to a dealer's obligation to deliver a prospectus when acting as an underwriter and with respect to an unsold allotment or subscription.

PART II
INFORMATION NOT REQUIRED IN PROSPECTUS

Item 13. Other Expenses of Issuance and Distribution.

The following table sets forth an itemized statement of the amounts of all expenses (excluding underwriting discounts and commissions) payable by us in connection with the registration of the common stock offered hereby. With the exception of the SEC registration fee, FINRA filing fee and the NYSE listing fee, the amounts set forth below are estimates.

SEC registration fee	\$	*
FINRA filing fee		*
NYSE listing fee		*
Accounting fees and expenses		*
Directors' & officers' liability insurance premiums		*
Legal fees and expenses		*
Printing and engraving expenses		*
Transfer agent and registrar fees		*
Miscellaneous		*
Total	\$	*

* To be provided by amendment

Item 14. Indemnification of Directors and Officers.

Subsection (a) of Section 145 of the General Corporation Law of the State of Delaware (referred to as the "DGCL") empowers a corporation to indemnify any person who was or is a party or who is threatened to be made a party to any threatened, pending or completed action, suit or proceeding, whether civil, criminal, administrative or investigative (other than an action by or in the right of the corporation) by reason of the fact that the person is or was a director, officer, employee or agent of the corporation, or is or was serving at the request of the corporation as a director, officer, employee or agent of another corporation, partnership, joint venture, trust or other enterprise, against expenses (including attorneys' fees), judgments, fines and amounts paid in settlement actually and reasonably incurred by the person in connection with such action, suit or proceeding if the person acted in good faith and in a manner the person reasonably believed to be in or not opposed to the best interests of the corporation, and, with respect to any criminal action or proceeding, had no reasonable cause to believe the person's conduct was unlawful.

Subsection (b) of Section 145 empowers a corporation to indemnify any person who was or is a party or is threatened to be made a party to any threatened, pending or completed action or suit by or in the right of the corporation to procure a judgment in its favor by reason of the fact that the person acted in any of the capacities set forth above, against expenses (including attorneys' fees) actually and reasonably incurred by the person in connection with the defense or settlement of such action or suit if the person acted in good faith and in a manner the person reasonably believed to be in or not opposed to the best interests of the corporation, except that no indemnification shall be made in respect of any claim, issue or matter as to which such person shall have been adjudged to be liable to the corporation unless and only to the extent that the Court of Chancery or the court in which such action or suit was brought shall determine upon application that, despite the adjudication of liability but in view of all the circumstances of the case, such person is fairly and reasonably entitled to indemnity for such expenses which the Court of Chancery or such other court shall deem proper.

Section 145 further provides that to the extent a director or officer of a corporation has been successful on the merits or otherwise in the defense of any action, suit or proceeding referred to in

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subsections (a) and (b) of Section 145, or in defense of any claim, issue or matter therein, such person shall be indemnified against expenses (including attorneys' fees) actually and reasonably incurred by such person in connection therewith; that indemnification provided for by Section 145 shall not be deemed exclusive of any other rights to which the indemnified party may be entitled; and the indemnification provided for by Section 145 shall, unless otherwise provided when authorized or ratified, continue as to a person who has ceased to be a director, officer, employee or agent and shall inure to the benefit of such person's heirs, executors and administrators. Section 145 also empowers the corporation to purchase and maintain insurance on behalf of any person who is or was a director, officer, employee or agent of the corporation, or is or was serving at the request of the corporation as a director, officer, employee or agent of another corporation, partnership, joint venture, trust or other enterprise against any liability asserted against such person and incurred by such person in any such capacity, or arising out of his status as such, whether or not the corporation would have the power to indemnify such person against such liabilities under Section 145.

Section 102(b)(7) of the DGCL provides that a corporation's certificate of incorporation may contain a provision eliminating or limiting the personal liability of a director to the corporation or its stockholders for monetary damages for breach of fiduciary duty as a director, provided that such provision shall not eliminate or limit the liability of a director (i) for any breach of the director's duty of loyalty to the corporation or its stockholders, (ii) for acts or omissions not in good faith or which involve intentional misconduct or a knowing violation of law, (iii) under Section 174 of the DGCL or (iv) for any transaction from which the director derived an improper personal benefit.

Our amended and restated certificate of incorporation will provide for indemnification of its directors, officers, employees and other agents to the maximum extent permitted by the Delaware General Corporation Law, and our bylaws will provide for indemnification of its directors, officers, employees and other agents to the maximum extent permitted by the Delaware General Corporation Law.

In addition, we will enter into indemnification agreements with each of our directors and officers. These agreements will require us to indemnify these individuals to the fullest extent permitted under Delaware law against liabilities that may arise by reason of their service to us, and to advance expenses incurred as a result of any proceeding against them as to which they could be indemnified. We intend to enter into indemnification agreements with its future directors.

The proposed form of underwriting agreement, to be filed as Exhibit 1.1 to this registration statement provides for indemnification of our directors and officers by the underwriters against certain liabilities arising under the Securities Act or otherwise in connection with this offering.

Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers or person controlling us pursuant to the foregoing provisions, we have been informed that in the opinion of the SEC, such indemnification is against public policy as expressed in the Securities Act and is therefore unenforceable.

Item 15. Recent Sales of Unregistered Securities.

In connection with our incorporation on February 3, 2022 under the laws of the State of Delaware, we issued 1,000 shares of our Class A common stock to Atlas LLC for an aggregate purchase price of \$10.00. These securities were offered and sold by us in reliance upon the exemption from the registration requirements provided by Section 4(a)(2) of the Securities Act. These shares will be redeemed for nominal value in connection with our reorganization.

Further, pursuant to the terms of certain reorganization transactions that will be completed prior to the closing of this offering, as described in further detail under "Corporate Reorganization," we will

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issue shares of Class B common stock to certain of the Legacy Owners. Such issuances will not involve any underwriters, underwriting discounts or commissions or a public offering, and we believe that each such issuance will be exempt from registration requirements pursuant to Section 4(a)(2) of the Securities Act.

Item 16. Exhibits and Financial Statement Schedules.

<u>Exhibit Number</u>	<u>Description</u>
*1.1	Form of Underwriting Agreement.
*2.1	Form of Master Reorganization Agreement.
+3.1	Certificate of Incorporation of Atlas Energy Solutions Inc.
*3.2	Form of Amended and Restated Certificate of Incorporation of Atlas Energy Solutions Inc.
+3.3	Bylaws of Atlas Energy Solutions Inc.
*3.4	Form of Amended and Restated Bylaws of Atlas Energy Solutions Inc.
+4.1	Form of Class A Common Stock Certificate.
*4.2	Form of Registration Rights Agreement.
*5.1	Opinion of Vinson & Elkins L.L.P. as to the legality of the securities being registered.
*10.1†	Form of Atlas Energy Solutions Inc. Long Term Incentive Plan.
*10.2†	Form of Indemnification Agreement.
*10.3	Form of Stockholders' Agreement.
*10.4	Form of Fourth Amended and Restated Limited Liability Company Agreement of Atlas Sand Company, LLC.
*10.5	ABL Credit Agreement, dated as of December 14, 2018, among Atlas Sand Company, LLC, as borrower, the lender parties thereto and Barclays Bank PLC, as Administrative Agent and Collateral Agent.
*10.6	Limited Waiver and First Amendment to the ABL Credit Agreement, dated as of June 4, 2019, among Atlas Sand Company, LLC, as borrower, the lender parties thereto and Barclays Bank PLC, as Administrative Agent and Collateral Agent.
*10.7	Second Amendment to the ABL Credit Agreement, dated as of October 22, 2019, among Atlas Sand Company, LLC, as borrower, the lender parties thereto and Barclays Bank PLC, as Administrative Agent and Collateral Agent.
*10.8	Third Amendment to the ABL Credit Agreement, dated as of April 13, 2020, among Atlas Sand Company, LLC, as borrower, the lender parties thereto and Barclays Bank PLC, as Administrative Agent and Collateral Agent.
*10.9	Fourth Amendment to the ABL Credit Agreement, dated as of March 23, 2021, among Atlas Sand Company, LLC, as borrower, the lender parties thereto and Barclays Bank PLC, as Administrative Agent and Collateral Agent.
*10.10	Fifth Amendment to the ABL Credit Agreement, dated as of October 20, 2021, among Atlas Sand Company, LLC, as borrower, the lender parties thereto and Barclays Bank PLC, as Administrative Agent and Collateral Agent.

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<u>Exhibit Number</u>	<u>Description</u>
+10.11	Credit Agreement, dated October 20, 2021 by and between Atlas Sand Company, LLC, as borrower, and Stonebriar Commercial Finance, LLC as lender.
*21.1	List of subsidiaries of Atlas Energy Solutions Inc.
*23.1	Consent of Ernst & Young LLP, independent registered public accounting firm to Atlas Energy Solutions Inc.
*23.2	Consent of Ernst & Young LLP, independent registered public accounting firm to Atlas Sand Company, LLC.
*23.3	Consent of Vinson & Elkins L.L.P. (included as part of Exhibit 5.1 hereto).
*23.4	Consent of John T. Boyd Company, independent mining engineers and geologists.
*24.1	Power of Attorney (included on the signature page of this Registration Statement).
#99.1	John T. Boyd Company Summary of Reserves at December 31, 2021.
*107	Calculation of Filing Fee Table.

* To be filed by amendment.
Filed herewith.
+ Previously filed.
† Compensatory plan or arrangement

Item 17. Undertakings.

The undersigned registrant hereby undertakes to provide to the underwriters at the closing specified in the underwriting agreement certificates in such denominations and registered in such names as required by the underwriters to permit prompt delivery to each purchaser.

Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers and controlling persons of the registrant pursuant to the foregoing provisions, or otherwise, the registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the registrant of expenses incurred or paid by a director, officer or controlling person of the registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act and will be governed by the final adjudication of such issue.

The undersigned registrant hereby undertakes that:

- (1) For purposes of determining any liability under the Securities Act of 1933, the information omitted from the form of prospectus filed as part of this registration statement in reliance upon Rule 430A and contained in a form of prospectus filed by the registrant pursuant to Rule 424(b)(1) or (4) or 497(h) under the Securities Act shall be deemed to be part of this registration statement as of the time it was declared effective.
- (2) For the purpose of determining any liability under the Securities Act of 1933, each post-effective amendment that contains a form of prospectus shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

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For the purpose of determining liability under the Securities Act of 1933 to any purchaser, if the registrant is subject to Rule 430C, each prospectus filed pursuant to Rule 424(b) as part of a registration statement relating to an offering, other than registration statements relying on Rule 430B or other than prospectuses filed in reliance on Rule 430A, shall be deemed to be part of and included in the registration statement as of the date it is first used after effectiveness. *Provided, however,* that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of contract of sale prior to such first use, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such date of first use.

For the purpose of determining liability of the registrant under the Securities Act of 1933 to any purchaser in the initial distribution of the securities, the undersigned registrant undertakes that in a primary offering of securities of the undersigned registrant pursuant to this registration statement, regardless of the underwriting method used to sell the securities to the purchaser, if the securities are offered or sold to such purchaser by means of any of the following communications, the undersigned registrant will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:

- (1) Any preliminary prospectus or prospectus of the undersigned registrant relating to the offering required to be filed pursuant to Rule 424;
- (2) Any free writing prospectus relating to the offering prepared by or on behalf of the undersigned registrant or used or referred to by the undersigned registrant;
- (3) The portion of any other free writing prospectus relating to the offering containing material information about the undersigned registrant or its securities provided by or on behalf of the undersigned registrant; and
- (4) Any other communication that is an offer in the offering made by the undersigned registrant to the purchaser.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the registrant has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Austin, State of Texas, on _____, 2022.

ATLAS ENERGY SOLUTIONS INC.

By: _____
Name:
Title:

Each person whose signature appears below appoints _____ and _____, and each of them, any of whom may act without the joinder of the other, as his or her true and lawful attorneys-in-fact and agents, with full power of substitution and resubstitution, for him or her and in his name, place and stead, in any and all capacities, to sign any and all amendments (including post-effective amendments) to this registration statement and any registration statement (including any amendment thereto) for this offering that is to be effective upon filing pursuant to Rule 462(b) under the Securities Act of 1933, as amended, and to file the same, with all exhibits thereto, and all other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents full power and authority to do and perform each and every act and thing requisite and necessary to be done, as fully to all intents and purposes as he or she might or would do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents or any of them or their or his or her substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act of 1933, as amended, this Registration Statement has been signed below by the following persons in the capacities indicated below on _____, 2022.

<u>Name</u>	<u>Title</u>
_____ Ben M. Brigham	Executive Chairman
_____	(Principal Executive Officer)
_____ John Turner	Chief Financial Officer (Principal Accounting and Financial Officer)

**TECHNICAL REPORT SUMMARY
FRAC SAND RESOURCES AND RESERVES
KERMIT AND MONAHANS MINES**

Winkler and Ward Counties, Texas

At your request, we are providing a copy of a John T. Boyd Company (BOYD) professional work product in electronic format. Please be advised that the authorship and content of the material being provided is strictly privileged to BOYD and no change or revision to said work product is permitted. Any request for alteration to the material provided should be made to BOYD, who reserves the sole discretion to determine if and to what extent any change in our document will be made (by BOYD). Unauthorized change to or use of the information being provided voids any and all BOYD responsibility and/or liability associated with this work product and could result in legal action by BOYD regarding improper use of privileged information and/or deliberate misrepresentation.

Prepared For
ATLAS ENERGY SOLUTIONS, INC

By

John T. Boyd Company
Mining and Geological Consultants
Pittsburgh, Pennsylvania, USA



Report No. 3871.006
MAY 2022



John T. Boyd Company
Mining and Geological Consultants

Chairman
James W. Boyd

May 13, 2022
File: 3871.006

President and CEO
John T. Boyd II

Managing Director and COO
Ronald L. Lewis

Atlas Energy Solutions, Inc
5918 W. Courtyard Drive, #500
Austin, TX 78730

Vice Presidents
Robert J. Farmer
Matthew E. Robb
John L. Weiss
Michael F. Wick
William P. Wolf

Attention: Mr. John Turner
Chief Financial Officer

Managing Director - Australia
George Cumplido

Subject: Technical Report Summary
Frac Sand Resources and Reserves
Kermit and Monahans Mines
Winkler and Ward Counties, Texas

Managing Director - China
Jisheng (Jason) Han

Managing Director - South America
Carlos F. Barrera

Dear Sirs:

Managing Director - Metals
Gregory B. Sparks

This SK-1300-compliant technical report summary provides the results of John T. Boyd Company's (BOYD) independent estimate of the frac sand (proppant) resources and reserves for Atlas Energy Solutions, Inc. (Atlas) Kermit and Monahans mines as of December 31, 2021.

Assistant to the President
Mark P. Davic

Pittsburgh
4000 Town Center Boulevard, Suite 300
Canonsburg, PA 15317
(724) 873-4400
(724) 873-4401 Fax
jtboydp@jtboyd.com

We wish to acknowledge the cooperation of Atlas' management and staff for providing the technical, financial, and legal information used in completing this project. Our findings are based on BOYD's extensive experience in preparing frac sand resource and reserve estimates used in US Securities and Exchange Commission (SEC) filings, and our knowledge of frac sand mining in Texas and throughout North America.

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Respectfully submitted,

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JOHN T. BOYD COMPANY
By:

www.jtboyd.com

John T. Boyd II
President and CEO

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GLOSSARY OF ABBREVIATIONS AND DEFINITIONS

\$:	US dollar(s)
%	:	Percent or percentage
Atlas	:	Atlas Energy Solutions, Inc.
API	:	American Petroleum Institute
BOYD	:	John T. Boyd Company
CapEx	:	Capital expenditures
COGS	:	Cost of goods sold
Constant Dollar	:	A monetary measure that is not influenced by inflation and used to compare time periods. Sometimes referred to as “real dollars”.
CY	:	Cubic yards
DCF	:	Discounted Cash Flow
Discount Rate	:	A rate of return used to discount future cash flows based on the return investors expect to receive from their investment.
DUC	:	Drilled but uncompleted gas or oil well.
FOB	:	Free-on-Board
Frac Sand	:	Frac sand is a naturally occurring, high silica content quartz sand, with grains that are generally well rounded and exhibit high compressive strength characteristics relative to other silica sand. It is utilized as a prop or “proppant” in unconventional shale frac well completions.

JOHN T. BOYD COMPANY

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- Frac Sand Resource : Frac sand resource is a concentration or occurrence of sand material of economic interest in or on the Earth's crust in such form, grade or quality, and quantity that there are reasonable prospects for economic extraction. A mineral resource is a reasonable estimate of mineralization, taking into account relevant factors such as quality specifications, likely mining dimensions, location or continuity, that, with the assumed and justifiable technical and economic conditions, is likely to, in whole or in part, become economically extractable. It is not merely an inventory of all mineralization drilled or sampled.
- Frac Sand Reserve : Frac sand reserve is an estimate of tonnage and grade or quality of mineral resources that, in the opinion of the qualified person, can be the basis of an economically viable project. More specifically, it is the economically mineable part of a mineral resource, which includes diluting materials and allowances for losses that may occur when the material is mined or extracted.
- gpm : Gallons per minute
- Indicated Sand Resource : An Indicated Sand Resource is that part of a Sand Resource for which quantity, grade or quality, densities, shape, and physical characteristics are estimated with sufficient confidence to allow the application of Modifying Factors in sufficient detail to support mine planning and evaluation of the economic viability of the deposit. Geological evidence is derived from adequately detailed and reliable exploration, sampling and testing, and is sufficient to assume geological and grade or quality continuity between points of observation. An Indicated Sand Resource has a lower level of confidence than that applying to a Measured Sand Resource and may only be converted to a Probable Sand Reserve.
- IRR : Internal rate-of-return
- ISO : International Organization for Standardization

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lb	:	Pound
LOM	:	Life-of-Mine
Measured Sand Resource	:	A Measured Sand Resource is that part of a Sand Resource for which quantity, grade or quality, densities, shape, and physical characteristics are estimated with confidence sufficient to allow the application of Modifying Factors to support detailed mine planning and final evaluation of the economic viability of the deposit. Geological evidence is derived from detailed and reliable exploration, sampling, and testing and is sufficient to confirm geological and grade or quality continuity between points of observation. A Measured Sand Resource has a higher level of confidence than that applying to either an Indicated Sand Resource or an Inferred Sand Resource. It may be converted to a Proven Sand Reserve or to a Probable Sand Reserve.
Mesh	:	A measurement of particle size often used in determining the size distribution of granular material.
Mineral Reserve	:	<i>See "Frac Sand Reserve"</i>
Mineral Resource	:	<i>See "Frac Sand Resource"</i>
Modifying Factors	:	The factors that a qualified person must apply to indicated and measured sand resources and then evaluate to establish the economic viability of sand reserves. A qualified person must apply and evaluate modifying factors to convert measured and indicated resources to proven and probable reserves. These factors include, but are not restricted to: mining; processing; metallurgical; infrastructure; economic; marketing; legal; environmental compliance; plans, negotiations, or agreements with local individuals or groups; and governmental factors. The number, type and specific characteristics of the modifying factors applied will necessarily be a function of and depend upon the mineral, mine, property, or project.

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Mscf	:	Thousand standard cubic feet per day
MSHA	:	Mine Safety and Health Administration. A division of the U.S. Department of Labor.
NOAA	:	National Oceanic and Atmospheric Administration
NSR	:	New Source Review
NTU	:	Nephelometric turbidity units
NPV	:	Net Present Value
Permian Basin	:	A large sedimentary shale basin in the southwestern part of the United States in mainly Texas and New Mexico. The basin produces approximately 5 million barrels per day of oil and holds some of the largest oil and gas reserves in the world.
Probable Sand Reserve	:	A Probable Sand Reserve is the economically mineable part of an Indicated and, in some circumstances, a Measured Sand Resource. The confidence in the Modifying Factors applying to a Probable Sand Reserve is lower than that applying to a Proven Sand Reserve.
Proppant Sand	:	<i>See "Frac Sand"</i>
Proven Sand Reserve	:	A Proven Mineral Reserve is the economically mineable part of a Measured Sand Resource. A Proven Sand Reserve implies a high degree of confidence in the Modifying Factors.
PSI	:	Pounds per square inch

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ROM	:	Run-of-Mine. The as-mined including in-seam clay partings mined with the sand, and out-of-seam dilution.
Rotosonic Drilling	:	A type of core drilling combining rotary drilling with ultrasonic frequency to drill through loosely consolidated soil and rock.
SEC	:	U.S. Securities and Exchange Commission
S-K 1300	:	Subpart 1300 and Item 601(b)(96) of the U.S. Securities and Exchange Commission's Regulation S-K
S&S	:	The Sealey and Smith Foundation
Surficial	:	Relating to the earth's surface or the geology that is on the surface.
TCEQ	:	Texas Commission on Environmental Quality
Ton	:	Short Ton. A unit of weight equal to 2,000 pounds
tph	:	Tons per Hour
Westward	:	Westward Environmental Inc

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1.0 EXECUTIVE SUMMARY

1.1 Introduction

BOYD was retained by Atlas to complete an independent technical audit of mineral resource and mineral reserve estimates-hereafter referred to as frac sand resource and frac sand reserve estimates-for their active mining operations located near Kermit, Texas (the "Kermit Mine") and Monahans, Texas (the "Monahans Mine"). Throughout the report, the Kermit and Monahans mines may also be referred to as the Kermit and Monahans "operations", "plants", "properties", or "facilities". This report summarizes the results of our resource and reserve estimate and satisfies the requirements for Atlas' disclosure of frac sand resources and reserves set forth in Subpart 1300 and Item 601(b)(96) of the SEC's Regulation S-K (S-K 1300). This is the first technical report summary filed by Atlas for the Kermit and Monahans Mines.

BOYD's findings are based on our detailed examination of the supporting geologic, technical, and economic information obtained from: (1) Atlas provided files, (2) discussions with Atlas personnel, (3) records on file with regulatory agencies, (4) public sources, and (5) nonconfidential BOYD files. Our analysis was performed to obtain reasonable assurance that Atlas's frac sand resource and reserve statements are free from material misstatement. This report provides an independent estimate of the frac sand resources and reserves underlying the Kermit and Monahans controlled properties. The basis for these estimates is BOYD's recent volumetric estimation of the resources and reserves.

This report provides a summary of primary information contained within this technical report summary and is supported by remaining portions of this report including text, figures, and tables. The Economic Analysis and resulting Net Present Value (NPV) estimate in this report were made for the purpose of confirming the economic viability of the reported sand reserves and not for the purposes of valuing Atlas or its assets. Internal Rate of Return (IRR) and project payback were not calculated, as there was no initial investment considered in the financial model.

Weights and measurements are expressed in US customary units. Unless noted, the effective date of the information, including estimates of frac sand reserves, is December 31, 2021.

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1.2 Property Description and Control

Atlas has two mines located within the Permian basin of Texas. In June 2018, Atlas received a Mine Safety and Health Administration (MSHA) identification number (41-05367) for the Kermit Mine, and in July 2018 they received Monahans' MSHA identification number(41-05369). Both mines have been operating continuously since that time.

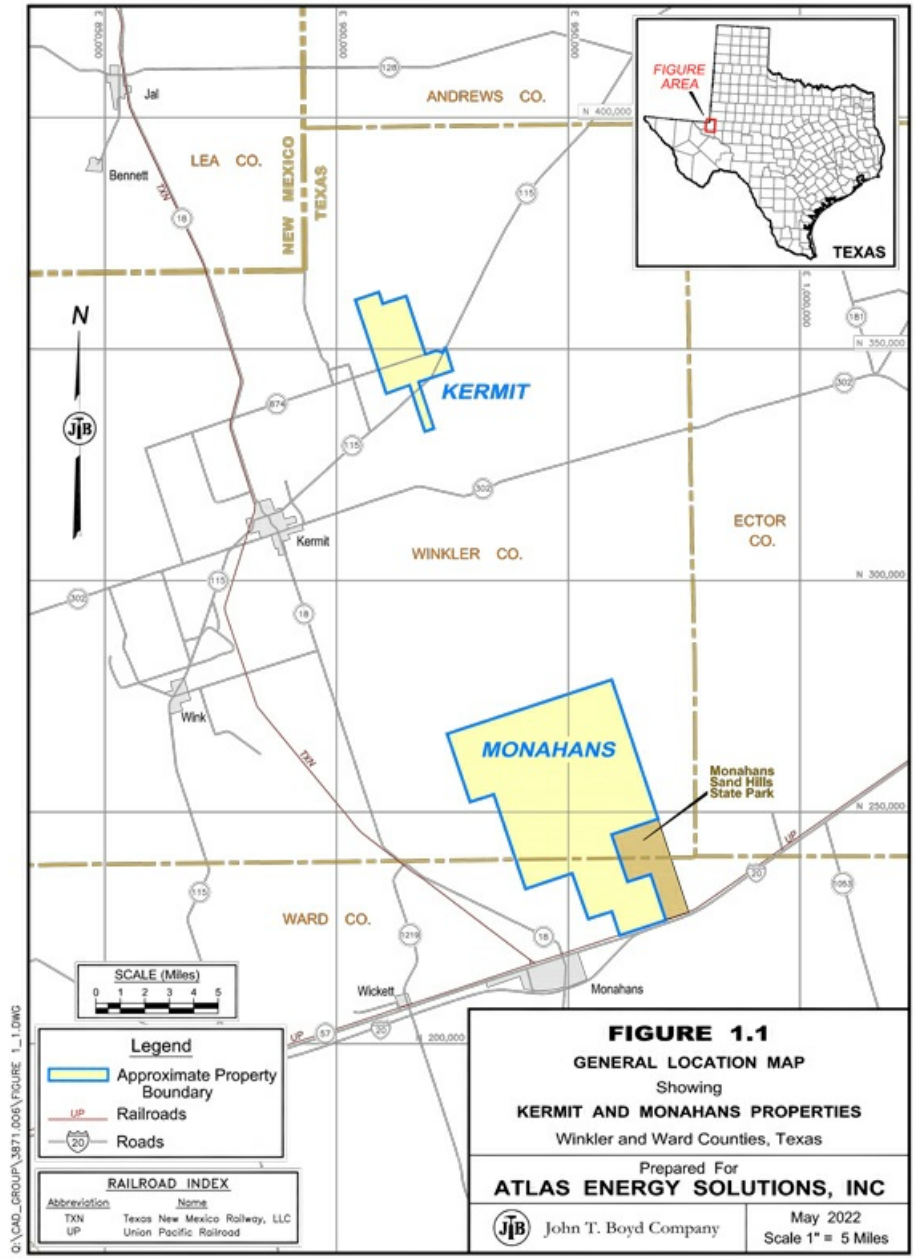
The Kermit operation, in Winkler County, Texas, is located approximately seven miles northeast of the town of Kermit and is a surface frac sand mining and processing facility, located on approximately 5,826 "gross" acres (the "Kermit Property") of which 5,341 "net" acres are controlled (leases and fee-owned). After applying requisite mining offsets, approximately 4,521 acres (or 78% of the property) have been explored and are considered as either mineable resources or reserves.

Atlas owns a portion of the Kermit property in fee (including the property on which the Kermit mine is located) and leases the remaining land from various lessors and as such pays either a royalty or delay rental to the lessors to retain the leased property.

The Monahans operation, in Winkler and Ward Counties Texas, is a surface frac sand mining and processing facility, located on approximately 32,224 "gross" acres (the "Monahans Property") which is entirely leased by Atlas. After applying requisite mining offsets, a total area covering approximately 11,187 acres (or 35%) of the Monahans Property has had exploration work completed, with dense enough drill hole coverage to be considered as frac sand resources and reserves, as of the date of this report. Atlas has also completed a reconnaissance-level of exploration drilling and sampling work on an additional 9,575 acres (or an additional 30%) outside of the resource and reserve areas of the Monahans Property. This "exploration target" area has a more widely spaced drilling density than the aforementioned resource and reserve areas, however drilling and testing indicates this portion of the deposit exhibits similar characteristics, both in thickness and frac sand quality. The mine, located in Ward and Winkler counties, Texas is approximately three miles northeast of the town of Monahans.

The general location of both mines is provided in Figure 1.1, following this page.

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1.3 Geology

Frac sand is a naturally occurring, high silica content quartz sand with grains that are generally well-rounded and monocrystalline. The main difference between frac sand and other sands is that frac sand grains are relatively pure in composition, consisting almost entirely of quartz; other sands have numerous impurities that may be cemented to the quartz grains. The pure quartz composition of frac sand grains, along with being well-rounded and spherical in shape, gives these sands the characteristics (crush strength, high acid solubility, low turbidity) that are sought after by oil and gas producers for use in developing wells.

Surficial geologic units overlying the properties and surrounding areas are predominantly Quaternary age unconsolidated deposits, ranging from windblown dunes and sheet sands to alluvial sands, silts, clays, and caliche. The Llano Estacado Caprock marks the eastern-most extent of the surficial sand deposits. Winds transporting particles into the area are thought to have collided with the escarpment, which slows the velocity of the particles and drops particles out of suspension, where they have accumulated over time. Winnowing processes have caused some degree of particle sorting to occur. Due to the mechanisms and long distances of particle transport, sand grains were abraded and rounded as they reached their current locations. Quaternary unconsolidated deposition covers nearly all of the subject properties, with the surficial deposits noted as generally ranging from 60-ft to over 100-ft in thickness. Both the Kermit and Monahans properties contain no discernable overburden materials except for sparse areas of vegetation and roots that are removed during processing and are mineable from the surface down to the total defined depth of the deposits. Data from extensive crush testing along with the API testing performed on the composite samples by Atlas indicate little variability within the overall mineable deposits on each property.

1.4 Exploration

Atlas contracted Westward Environmental Inc (Westward) to perform a series of drilling and sampling programs on the Kermit and Monahans properties, which occurred over the period June 2017 through March 2018.

The drilling and sampling programs were executed in equivalent manner on each property as Westward supervised the field work and sampled each hole. Holes were drilled using a rotasonic drill rig, and each hole was sampled on 5-ft increments from the surface on the initial exploration drill programs and 10-ft increments on the follow up infill drilling programs. Westward geologists and geological technicians determined the

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terminus of the sampling interval of a hole, as drilling would be stopped when the amount of sand in a recovered interval was neither the first nor second most abundant material present in a given sample interval. All drilled intervals were geologically logged, photographed, and sampled in duplicate. One set of samples was retained by Atlas for archival purposes, while the other set of samples was sent to a lab for grain size analyses and proppant sand quality testing.

In 2017, an initial drilling and sampling program utilized widely spaced exploration and drill holes, with nominal spacing of 3,000-ft to 4,500-ft between drill holes (one hole drilled per section of controlled property), in order to determine the depth and lateral extent of the sand deposits across the Kermit and Monahans properties. There were 36 holes drilled and sampled on the Kermit Property in June and July 2017. 53 holes were drilled and sampled on the Monahans Property from June to August 2017. Sample analyses were performed by PropTester in Cyprus, Texas and FracTAL in St. Paul, Minnesota.

An infill drilling program was subsequently initiated in March 2018 to increase geologic confidence on each of the subject properties. This consisted of completing an additional 25 drill holes on the Kermit Property and 27 drill holes on the Monahans Property. Upon completion of the infill drilling programs, each property now had a nominal 1,500-ft drill hole spacing within their respective initial mining areas, which provided enough geoscientific information to be able to classify the infill drilled areas as Proven and Probable Reserves. A summary of both drilling campaigns is summarized in Table 1.1.

Table 1.1: Atlas Drilling and Sampling Program

	Rotasonic Holes Drilled and Sampled		
	Initial*	Infill**	Combined
Kermit Property	36	25	61
Monahans Property	53	27	80
Total	89	52	141

* Drilled and sampled June to August 2017

** Drilled and sampled March 2018

1.5 Frac Sand Reserves and Quality

This technical report summary provides an estimate of frac sand reserves for Atlas' Kermit and Monahans mines in accordance with the requirements set forth in S-K 1300. These estimates were independently prepared by BOYD and utilized in conjunction with information provided by Atlas including: a life-of-mine (LOM) plan, the relevant processing, economic (including independent estimates of capital, revenue, and cost), marketing, legal, environmental, socio-economic, and regulatory factors for each operation.

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Estimates of mineral resources and reserves are always subject to a degree of uncertainty. The level of confidence that can be applied to a particular estimate is a function of, among other things: the amount, quality, and completeness of exploration data; the geological complexity of the deposit; and economic, legal, social, and environmental factors associated with mining the resource/reserve. BOYD used the definitions provided in S-K 1300 to describe the varying degree of certainty associated with the estimates reported here.

Estimates of frac sand resource are subdivided to reflect the different levels of geological confidence into measured (highest geological confidence), indicated, and inferred (lowest geological assurance). Upon application of modifying factors that include adjustments for mining loss, processing loss, and economic factors. A measured resource may be converted to either a proven or probable reserve, while an indicated resource may only be converted to a probable reserve. An inferred resource may not be converted to a reserve without further drilling, due to the lower level of geological confidence.

A mineral reserve is the economically mineable part of a measured or indicated mineral resource, which includes diluting materials and allowances for losses that may occur when the material is mined or extracted. Estimates of mineral reserves are subdivided to reflect geologic confidence, and potential uncertainties in the modifying factors, into proven (highest assurance) and probable.

In this report, the term “frac sand reserves” represents the tonnage and quality of product sand that will be available for sale after washing and drying the run-on-mine (ROM) sand. When material variation in thickness, depth, and/or sand quality occur between drill holes, the allowable spacing distance is reduced. The following drill hole spacing criteria were determined by the Qualified Person and used in this report to define the sand resources within Atlas’ properties:

<u>Classification</u>	<u>Spacing Requirement (ft)</u> <u>(Nominal Maximum)</u>
Measured	1,500
Indicated	2,500
Inferred	5,000

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BOYD's estimate of frac sand reserves for the Kermit and Monahans mines as of December 31, 2021, total 368 million tons of saleable product (i.e., greater than 140-mesh and less than 40-mesh in size). There are 198 million tons underlying the Kermit Property and 170 million tons underlying the Monahans Property.

Table 1.2 presents the estimated frac sand reserves by product mesh size, reserve classification, and mineral ownership status for the Kermit and Monahans mines:

Table 1.2: Atlas Energy Solutions Reserves (As of December 31, 2021)

Atlas Energy Solutions, Kermit and Monahans Reserves (As of December 31, 2021)									
Control	Tons (000) By Classification and Mesh Size						Total		
	Proven			Probable			By Mesh Size		
	40/70	70/140	Total	40/70	70/140	Total	40/70	70/140	Total
Kermit Operation									
Owned	78,955	61,217	140,172	—	—	—	78,955	61,217	140,172
Leased	28,580	24,433	53,013	2,599	2,232	4,831	31,179	26,665	57,844
Total	107,535	85,650	193,185	2,599	2,232	4,831	110,134	87,882	198,016
Monahans Operation									
Leased	71,886	46,739	118,625	32,014	19,057	51,098	103,927	65,796	169,723

Projecting sales volumes of approximately 5 million tons per year per facility, the expected LOM of the Kermit operation's reserves is approximately 40 years and the Monahans operation is approximately 34 years.

The additional in-place resources consist of the Measured and Indicated resources that have not been formally included in a mine plan by Atlas but have adequate geoscientific information to be converted to reserves in the future. The Inferred Resources consist of areas that generally need additional exploration drilling on a closer spacing to classify them as a Measured or Indicated Resource. These resources that are estimated at 1.665 billion tons (398 million tons Kermit, 1,267 million tons Monahans) represent the in-ground material prior to applying any mining and processing losses. As additional mine planning is developed and additional drilling is performed on the resource areas of the properties, the in-place material may be converted to reserves by factoring in the mining and process loss. A detailed accounting of the resource and reserve estimates are contained in Chapter 6.

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Concerning the frac sand quality of the properties, PropTester performed API RP-19C/ISO 13503-2 tests on composite samples created from sample material collected during the drilling programs on the Kermit and Monahans properties. A composite of the entire depth drilled from each hole selected was created, and for each composite sample, the testing labs created 40/70-mesh and 40/140-mesh product samples which were then analyzed for the full suite of API RP-19C/ISO 13503-2 proppant sand tests. Overall, this extensive testing indicated that a relatively uniform range of crush values exist through the entire depth of the deposit, except for one or two intervals where the caliche interval was not completely removed before performing the crush tests. These caliche intervals were about 1,000 psi less than all other intervals, and as such were not included in the summary quality data.

Combining the extensive crush testing conducted with the API testing performed on the composite samples, Atlas has completed a comprehensive review of grain characteristics for each of the reserve areas within each property. The data indicate little variability within the overall mineable deposit on each property.

Sample testing results are summarized in Table 1.3 below for each product size analyzed within each property:

Table 1.3: Proppant Performance Test Results for Kermit and Monahans

Test	Average ISO/API Test Results By Product Size and Property				
	40/70-mesh			40/140-mesh*,**	
	Kermit	Monahans	Recommended Specification	Kermit	Monahans
Sphericity	0.7	0.7	≥ 0.6	0.7	0.7
Roundness	0.8	0.7	≥ 0.6	0.7	0.7
Acid Solubility (%)	1.1	0.9	≤ 3.0	2.6	1.6
Turbidity (NTU)	15.0	7.0	≤ 250	15.0	13.0
K-Value (000 psi)	7 - 8	7 - 8	—	10 - 11	10 - 11

* 100-mesh proppant sand material currently does not have an API/ISO specification.

** Test results were for a single 40/140-mesh product.

The extent to which the frac sand reserves may be affected by any known geological, operational, environmental, permitting, legal, title, variation, socio-economic, marketing, political, or other relevant issues has been reviewed as warranted. It is the opinion of BOYD that Atlas has appropriately mitigated, or has the operational acumen to mitigate, the risks associated with these factors. BOYD is not aware of any additional risks that could materially affect the development of the frac sand reserves.

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Based on our independent estimate and operations review, we have a high degree of confidence that the estimates shown in this report accurately represent the available frac sand reserves controlled by Atlas, as of December 31, 2021.

1.6 Operations

1.6.1 Mining

The Kermit and the Monahans mines both employ dredging as the primary sand extraction method. Most of the mineable area at both locations has minimal overburden and vegetation; as such, sand excavation normally begins at the surface throughout most of the mine plan area. BOYD has reviewed the LOM plans for both operations and they appear to be representative of the Reserve tonnage estimates reported herein. Both mines operate continuously 24/7. The water forming the dredge ponds is sourced from a shallow aquifer which lies below each property. The dredge is a floating barge that lowers an arm or “ladder” with an attached submersible pump to the bottom of the deposit. Sand is pumped through poly pipe to the mine skid where waste material is removed. The sand is then further pumped to the wet plant with tailings and excess water returning to the dredge pit. A conceptual mine plan with sequencing is illustrated in Chapter 7 of this report. Both mine sites operate continuously.

1.6.2 Processing

Each plant has a nominal capacity of approximately 5.5 million tons per year of finished product. The Kermit Plant was commissioned in July 2018 and the Monahans Plant was commissioned in October 2018. The predominant frac sand products produced at the operations include 40/70-mesh and 40/140-mesh products. Since the commissioning of the wet plants in 2018 through the end of 2021, the actual process yield for both plants is approximately 90%. In general, for every 100 tons of ROM material fed into the plant, 90 tons of saleable product is produced. It should be noted that these actual process yields are slightly different than the overall process yields used to estimate the entire Reserve and that Resources that have been estimated prior to applying a process yield factor.

Once the material has been mined from the pit, it proceeds to the processing plants as follows:

- Wet Process Plant- ROM material from the dredge is pumped to the wet plant and the greater than 40-mesh and less than 140-mesh sand and silt material is removed.

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- Dry Process Plant- The wet 40/140-mesh material produced by the wet process plant is dried and screened into finished products. Anon-site quality laboratory samples and monitors production and shipping sand quality daily.
- Storage and Loadout- Finished products are stored in silos and gravity loaded from under the silos into highway trucks for transport to the customer. The Atlas loadout operates 24 hours per day, 7 days per week every day of the year.

1.6.3 Infrastructure

Each plant is supplied three-phase line power. Substations access 138 kV line and step voltage down to a 12.5 kV line which delivers power to the plants. Line natural gas is supplied to both plants. Natural gas line capacity and substation capacity at both plants is sufficient to serve much more than 100% of Atlas's current requirements.

Plant process water is recycled within the plants and is pumped from the dredge pond reservoir. Additional makeup water is obtained from a wellfield containing 14 water wells having an approximate capacity of 1,600 gallons per minute (gpm) at Kermit, and 21 water wells having an approximate capacity of 2,500 gpm at Monahans. The wells at both plants are only utilized as a backup water supply.

On-site facilities at each site include a scale house, office, shop, and a quality laboratory located in the dry process plant. The surface facilities currently located at the mine are well constructed and have the necessary capacity/capabilities to support both of the operations. Operational preference may constitute the upgrading of some existing facilities if the operation expands in the future.

1.7 Financial Analysis

1.7.1 Market Analysis

Permit submissions for horizontal oil and gas wells in the Permian Basin indicate a continuation of strong drilling ahead. Utilizing data from Baker Hughes and The Railroad Commission of Texas (RRC of TX), the total number of permits filed per average annual working rig for 2021 is tracking at multi-year highs as evidenced in the chart below. For calendar year 2021, there was a total of 4,413 permit submissions with an average 227 horizontal rigs active in the Permian Basin (ratio of 19.5).

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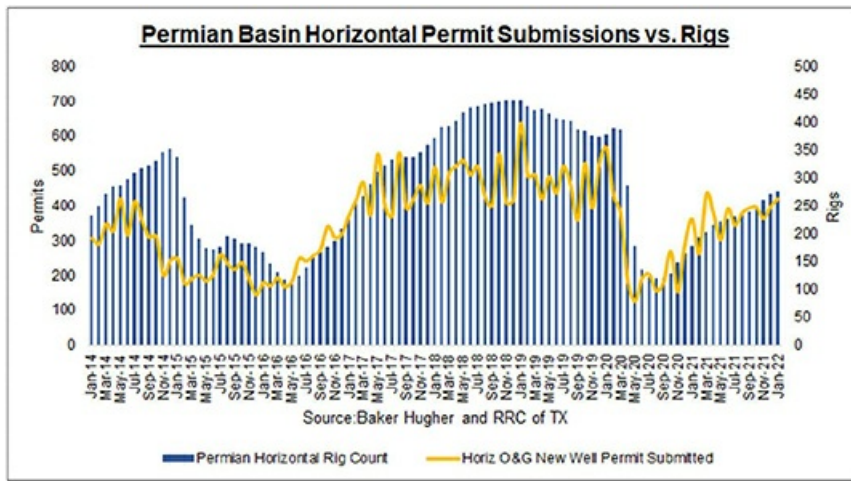


Figure 1.2: Permian Basin HZ Permit Submissions vs. Rigs

Rig counts in the Permian Basin are up approximately 64% as of year-end 2021 versus 2020. This has led to increased production for both crude oil and natural gas. Over the same time-period, crude oil production (barrels per day) and natural gas production (thousand cubic feet per day) in the Permian Basin are up 13% and 16%, respectively. Both Permian Basin daily crude oil production and daily natural gas production continue to exceed pre-pandemic peaks and reach new records. As of year-end 2021, crude oil production in the basin is nearly 5.0 million barrels per day while basin natural gas production stands at 19.8 billion cubic feet per day.

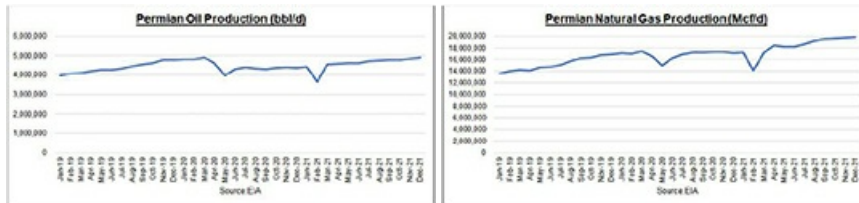


Figure 1.3: Permian Oil Production and Natural Gas Production

Consequently, with increases in production and well completions, activity at frac sand mines in the region have increased. According to MSHA, operating hours for the third quarter of 2021 for Permian Basin frac sand mines were up 36% since year-end 2020.



Figure 1.4: Permian Wide In-Basin Mine Operating Hours (Quarterly)

According to industry reports, all but one frac sand mine in the Permian Basin is currently fully operational. However, total in-basin mine operating hours are still about 45% below their historical peak. Generally, mine operating hours correlate well with crude oil and natural gas production and drilling and uncompleted (DUC) well data. Current frac sand production in the Permian Basin is estimated to be nearing prior peak production of about 70 million tons leading to stable pricing in the basin. BOYD anticipates stable frac sand pricing with a slight upside bias due to potential supply chain disruptions and high commodity input costs.

1.7.2 Capital and Operating Costs

1.7.2.1 Kermit

Table 1.4 presents Kermit's Annual CapEx for years 2020 and 2021 and is based on the fixed asset data provided by Atlas.

CapEx (\$000)	
Year 2020	1,297
Year 2021*	4,820
Total	6,117

* Includes Construction in Progress (CIP)

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Table 1.5 presents Kermit's historical sales data for years 2020 and 2021. Table 1.5 presents Atlas' historical sales data for years 2020 and 2021. Prices have improved in Year 2021 from the low prices experienced in Year 2020. Atlas' Year 2021 sales were 4.2 million tons, a 31% increase from Year 2020, which was impacted by the COVID-19 pandemic.

Table 1.5: Kermit Historical Sales Data

	Year 2020	Year 2021
Tons sold (000)	3,208	4,204
Revenues (\$000)	38,728	73,836
Product Pricing (\$ per ton sold)	12.07	17.56

1.7.2.2 Monahans

Table 1.6 presents Monahans' Annual CapEx for years 2020 and 2021 and is based on the fixed asset data provided by Atlas.

Table 1.6: Monahans Historical Capital Expenditures

CapEx (\$000)	
Year 2020	949
Year 2021*	4,646
Total	5,596

* Includes Construction in Progress (CIP)

Table 1.7 presents Monahans' historical sales data for years 2020 and 2021. Year 2021 prices have improved from low prices experienced in Year 2020. Atlas' Year 2021 sales were approximately 4.1 million tons, a 30% increase from Year 2020, which was impacted by the COVID-19 pandemic.

Table 1.7: Monahans Historical Sales Data

	Year 2020	Year 2021
Tons sold (000)	3,160	4,093
Revenues (\$000)	41,213	68,631
Product Pricing (\$ per ton sold)	13.04	16.77

1.7.3 Sales, Production, and Cost Forecast

1.7.3.1 Kermit

Annual forecasted ROM production of approximately 6.0 Mtpy is based on the dry plant producing 4.9 Mtpy of saleable product after a processing (wet and dry processing plant) loss of approximately 18%, as discussed in Chapter 6. Forecasted dry processing plant production is within the operation's current infrastructure capacities and capabilities.

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As noted in Table 1.8, the dry processing plant is projected to product approximately 4.9 Mtpy of saleable product consisting of 40/70-mesh and 40/140-mesh products, as discussed in Chapter 6.

The forecasted sales price of \$30 per ton sold, for all products, presented in Table 1.8 is based on current average product prices for the first two months of 2022, as provided by Atlas, and reflects a significant rebound from years 2020 and 2021 prices. We opine that this is a reasonable price projection.

Table 1.8: Kermit Sales Projections

	Year 2022	Year 2023	Year 2024	Year 2025	Year 2026
Tons Sold (000)	4,900	4,900	4,900	4,900	4,900
Revenues (\$000)	147,000	147,000	147,000	147,000	147,000
Product Pricing (\$ per ton sold)	30.00	30.00	30.00	30.00	30.00

Table 1.9 below, presents the cash cost projections for the period 2022 through 2026. Operating cost projections were provided by Atlas and are based on prior year and current year actuals. BOYD considered their estimates to be reasonable. However, adjustments were made based on our review of historical operating costs as well other information and our experience with such operations.

Table 1.9: Kermit Annual Cash Cost of Production Projections

	Summary Cash Cost of Production (\$000)				
	Year 2022	Year 2023	Year 2024	Year 2025	Year 2026
Operating Costs with Royalty	33,524	32,250	31,956	31,956	31,956
Final Reclamation Escrow	111	111	111	111	111
Total Cash Cost of Production	33,636	32,362	32,068	32,068	32,068
\$ per ton sold	6.86	6.60	6.54	6.54	6.54

1.7.3.2 Monahans

Annual forecasted ROM production of approximately 5.6 Mtpy is based on the dry plant producing 4.9 Mtpy of saleable product after a processing (wet and dry processing plant) loss of approximately 13%, as discussed in Chapter 6. Forecasted dry processing plant production is within the operation's current infrastructure capacities and capabilities.

As noted in Table 1.10, the dry processing plant is projected to product approximately 4.9 Mtpy of saleable product consisting of 40/70-mesh and 40/140-mesh products, as discussed in Chapter 6.

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The forecasted sales price of \$30 per ton sold, for all products, presented in Table 1.10 is based on current average product prices for the first two months of 2022, as provided by Atlas, and reflects a significant rebound from years 2020 and 2021 prices. We opine that this is reasonable average price.

Table 1.10: Monahans Sales Projections

	Year 2022	Year 2023	Year 2024	Year 2025	Year 2026
Tons Sold (000)	4,900	4,900	4,900	4,900	4,900
Revenues (\$000)	147,000	147,000	147,000	147,000	147,000
Product Pricing (\$ per ton sold)	30.00	30.00	30.00	30.00	30.00

Table 1.11 presents the cash cost projections for the period 2022 through 2026. Operating cost projections were provided by Atlas and are based on prior year and current year actuals. BOYD considered their estimates to be reasonable. However, adjustments were made based on our review of historical operating costs as well other information and our experience with such operations.

Table 1.11: Monahans Annual Cash Cost of Production Projections

	Summary Cash Cost of Production (\$000)				
	Year 2022	Year 2023	Year 2024	Year 2025	Year 2026
Operating Costs with Royalty	33,396	32,171	31,877	31,877	31,877
Final Reclamation Escrow	130	130	130	130	130
Total Cash Cost of Production	33,526	32,301	32,007	32,007	32,007
\$ per ton sold	6.85	6.60	6.54	6.54	6.54

1.7.4 Economic Analysis

The Discounted Cash Flow - Net Present Value (DCF-NPV) estimates presented were made for purposes of confirming the general economic viability of the reported frac sand reserves and not for purposes of valuing Atlas, the Kermit and Monahans operations, or its assets. Internal rate-of-return (IRR) and project payback were not calculated, as there were no initial investments considered in the Kermit and Monahans financial models.

All DCF-NPV values are as of January 1, 2022, for the Kermit and Monahans operations. The intent of this exercise is to demonstrate that the operations generate positive cash flows (based on a 10% discount rate), on a pre-tax and after-tax basis, which supports the statement of frac sand reserves herein.

Resource tons have not been included in the DCF-NPV analyses, although substantial additional saleable product will be available as their-place resources and other exploration target areas are converted to reserves.

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1.7.4.1 Kermit

Table 1.12 below presents the pre-tax and after-tax cash flow projections based on the proposed LOM production schedule and revenue, cost of production, and CapEx estimates discussed above for the Kermit operation.

Table 1.12: Kermit Summary Cash Flow Statement

	Summary Cash Flow Statement (\$ 000)					Total
	2022 to 2031	2032 to 2041	2042 to 2051	2052 to 2061	2062 to 2062	
Total Tons Sold (000)	49,000	49,000	49,000	49,000	2,016	198,016
Revenues	1,470,000	1,470,000	1,470,000	1,470,000	60,480	5,940,480
Cost of Production	322,538	323,126	325,576	327,277	17,920	1,316,436
CapEx	20,000	20,000	20,000	19,000	—	79,000
Net Pre-Tax Cash Flow	1,127,462	1,126,874	1,124,424	1,123,723	42,560	4,545,044
Federal Income and State Franchise Taxes	227,676	234,419	236,866	237,130	8,373	944,464
Net After-Tax Cash Flow	899,786	892,455	887,558	886,593	34,187	3,600,579

Three DCF-NPVs on a pre-tax basis and three DCF-NPVs on a after-tax basis, using discount rates of 8%, 10%, and 12%, were calculated utilizing the cash flows above. The DCF-NPV values used mid-year discounting and all cash flows were on a constant dollar basis.

The pre-tax DCF-NPVs range from approximately \$983 million to \$1,398 million, and the after-tax DCF-NPVs range from approximately \$783 million to \$1,112 million. Table 1.13 summarizes the results of the pre-tax analyses:

Table 1.13: Kermit DCF-NPV

	DCF-NPV (\$ millions)		
	8%	10%	12%
Pre-Tax	1,398	1,156	983
After-Tax	1,112	920	783

Refer to Table 12.3 in Chapter 12 for the LOM cash flow analysis and corresponding pre-tax and after-tax DCF-NPV analyses at a 10% discount rate.

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1.7.4.2 Monahans

Table 1.14 below presents the pre-tax cash flow projections based on the proposed LOM production schedule and revenue, cost of production, and CapEx estimates discussed above for the Monahans operation.

Table 1.14: Monahans Summary Cash Flow Statement

	Summary Cash Flow Statement (\$ 000)				
	2022 to 2031	2032 to 2041	2042 to 2051	2052 to 2056	Total
Total Tons Sold (000)	49,000	49,000	49,000	22,723	169,723
Revenues	1,470,000	1,470,000	1,470,000	681,690	5,091,690
Cost of Production	321,883	322,520	324,970	155,573	1,124,946
CapEx	20,000	20,000	20,000	7,000	67,000
Net Pre-Tax Cash Flow	1,128,117	1,127,480	1,125,030	519,117	3,899,744
Federal Income and State Franchise Taxes	248,822	248,688	248,174	114,063	859,748
Net After-Tax Cash Flow	879,295	878,792	876,856	405,054	3,039,997

Three DCF-NPVs on a pre-tax basis and three DCF-NPVs on an after-tax basis, using discount rates of 8%, 10%, and 12%, were calculated utilizing the cash flows above. The DCF-NPV values used mid-year discounting and all cash flows were on a constant dollar basis.

The pre-tax DCF-NPV ranges from approximately \$974 million to \$1,362 million, and the after-tax DCF-NPVs range from approximately \$759 million to \$1,062 million. Table 1.15 summarizes the results of the pre-tax and after-tax analyses:

Table 1.15: Monahans DCF-NPV

	DCF-NPV (\$ millions)		
	8%	10%	12%
Pre-Tax	1,362	1,138	974
After-Tax	1,062	887	759

Refer to Table 12.13 in Chapter 12 for the LOM cash flow analysis and corresponding pre-tax and after-tax DCF-NPV analyses at a 10% discount rate.

1.8 Regulation and Liabilities

The Kermit and Monahans operations are predominantly regulated by the Texas Commission on Environmental Quality (TCEQ) with respect to environmental compliance. The predominant permitting requirement is an active New Source Review (NSR) permit for air pollution control. Both operations have a current NSR permit which is renewable in 2028. Other permits held for the operations include Stormwater, Above

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Ground Storage Tank, Aggregate Production Operation, and a septic permit. A SPCC plan (spill prevention plan) is also active at each operation. A summary of the permits for both operations is as follows:

<u>Permit Number</u>	<u>Permit type</u>	<u>Plant</u>	<u>Status</u>	<u>Expires</u>
149761	Air Permit (NSR)	1 - Kermit	Active	6/29/2028
AP0002721	Aggregate Production Operation (APO Registration)	1 - Kermit	Active	
2480014	Water Well 1 - CN605406776, RN109897975 -is temporarily approved for use for the period of two years from this letter date based on the conditions	1 - Kermit	Pending	3/6/2022
n/a	SPCC (Spill Plan)	1 - Kermit	Active	
148572	Permit By Rule	2 - Monahans	Active	
148113	Permit By Rule	1 - Kermit	Active	
150399	Air Permit	2 - Monahans	Active	6/29/2028
AP0002804	Aggregate Production Operation (APO Registration)	2 - Monahans	Active	
2480015	Water Well 2 - CN605406776, RN109954511 - temporarily in service	2 - Monahans	Pending	
n/a	SPCC (Spill Plan) -Oi and Gas	2 - Monahans	Active	
NOA WKP-14-17	septic Tank - North - Kermit septic Tank - South - Monahans			

Although there are no formal state or federal reclamation obligations required for the operation, the Lessor of the property controlled by lease at Monahans has reclamation requirements for post mining land use. An excerpt from the lease document pertaining to these requirements is presented in Chapter 13.

Additionally, Atlas participates in a voluntary Candidate Conservation Agreement with Assurances for the Dune Sagebrush Lizard (DSL). This mitigates DSL regulatory risk for both mining operations. Atlas has the option to either set aside acreage for the DSL habitat or contribute cash based on the acreage within the habitat area. Atlas has significant acreage without sand reserves to set aside for this purpose and can continue mining based on the agreement. The agreement lasts for 23 years starting in January 2021.

Mine safety is regulated by the federal government by MSHA as are all surface mining operations. MSHA inspects the facilities a minimum of twice yearly. Atlas' safety record compares favorably with its regional peers. For clarity, MSHA refers to Kermit and Monahans as Kermit North (MSHA Id# 4105367) and Kermit South (MSHA Id# 4105359), respectively. Data indicate that during the mines operational lives (2018 through 2021), Non-Fatal Lost Days injury rates have been on the decline. Atlas' incident rate has trended below average in comparison with other west Texas regional frac sand mining operations during the past three years (2018 through 2021).

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Based on our review of information provided by Atlas and available public information, it is BOYD's opinion that Atlas' record of compliance with applicable mining, water quality, and environmental regulations is generally typical for the industry. BOYD is not aware of any regulatory violation or compliance issue that would materially impact the frac sand reserve estimate.

1.9 Conclusions

It is BOYD's overall conclusion that Atlas' frac sand reserves, as reported herein: (1) were prepared in conformance with accepted industry standards and practices, and (2) are reasonably and appropriately supported by technical evaluations, which consider all relevant modifying factors. We do not believe there is other relevant data or information material to the properties that would render this technical report summary misleading. Our conclusions represent only informed professional judgment.

Given the operating history and actual performance of Atlas through the COVID-19 pandemic and volatile energy market conditions, we consider the going concern to be viable under the current and foreseeable operating environment. A general assessment of risk is presented in the relevant sections of this report.

The ability of Atlas, or any mine operator, to recover all of the reported frac sand reserves is dependent on numerous factors that are beyond the control of, and cannot be anticipated by, BOYD. These factors include mining and geologic conditions, the capabilities of management and employees, the securing of required approvals and permits in a timely manner, future sand prices, etc. Unforeseen changes in regulations could also impact performance. Opinions presented in this report apply to the site conditions and features as they existed at the time of BOYD's investigations and those reasonably foreseeable.

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2.0 INTRODUCTION

2.1 Registrant and Purpose

This technical report summary was prepared for Atlas in support of their disclosure of frac sand reserves for the Kermit and Monahans mines in accordance with S-K 1300 Regulations.

Atlas is a private, US-based mining company headquartered in Austin, Texas. Atlas commenced operations at the Kermit Mine in June 2018 and the Monahans Mine in July 2018. Atlas provides in-basin frac sand to the surrounding energy drilling market within the Permian basin. All of Atlas' products are trucked to the surrounding energy projects from both of their Permian based mines. Atlas' website is found at www.atlassand.com.

2.2 Terms of Reference

Atlas initially retained BOYD to complete an independent technical report for both mines which was issued in December 2018 (BOYD Report No. 3871.000). Subsequently, Atlas retained BOYD to prepare a SEC-compliant technical report summary to support their disclosure of frac sand reserves following S-K 1300 requirements. Our objective is to utilize the original report as a basis and incorporate additional information that we have reviewed into compiling an updated compliant technical report summary contained herein. The estimates within this report are adjusted to reflect an "as of" date of December 31, 2021.

The results of our review, presented in report form herein, were prepared in accordance with the disclosure requirements set forth in Subpart 1300 and Item 601(b)(96) of the SEC's Regulation S-K. The purpose of this report is threefold: (1) to summarize available information for the subject mining properties, (2) to provide the conclusions of our technical audit, and (3) to provide a statement of frac sand resources and reserves for the Kermit and Monahans mines. This is the first technical report summary filed by Atlas for the mines.

BOYD's findings are based on our detailed examination of the supporting geologic, technical, and economic information provided by Atlas in formulating the estimates of frac sand resources and reserves disclosed in this report. We independently estimated the frac sand resources and reserves from first principles based on third-party exploration information provided to BOYD.

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We used standard engineering and geoscience methods, or a combination of methods, that we considered to be appropriate and necessary to establish the conclusions set forth herein. As in all aspects of mining property evaluation, there are uncertainties inherent in the interpretation of engineering and geoscience data; therefore, our conclusions necessarily represent only informed professional judgment.

The ability of Atlas, or any mine operator, to recover all of the estimated frac sand reserves presented in this report is dependent on numerous factors that are beyond the control of, and cannot be anticipated by, BOYD. These factors include mining and geologic conditions, the capabilities of management and employees, the securing of required approvals and permits in a timely manner, future sand prices, etc. Unforeseen changes in regulations could also impact performance. Opinions presented in this report apply to the site conditions and features as they existed at the time of BOYD's investigations and those reasonably foreseeable.

This report is intended for use by Atlas subject to the terms and conditions of its engagement agreement with BOYD. The agreement permits Atlas to file this report as a technical report summary with the SEC pursuant to Subpart 1300 and Item 601(b)(96) of Regulation S-K. Except for the purposes legislated under US securities law, any other uses of or reliance on this report by any third party is at that party's sole risk. The responsibility for this disclosure remains with Atlas. The user of this document should ensure that this is the most recent disclosure of frac sand resources and reserves for the Kermit and Monahans mines as it is no longer valid if more recent estimates have been issued.

2.3 Expert Qualifications

BOYD is an independent consulting firm specializing in mining-related engineering and financial consulting services. Since 1943, BOYD has completed over 4,000 projects in the United States and more than 90 other countries. Our full-time staff comprises mining experts in: civil, environmental, geotechnical, and mining engineering; geology; mineral economics; and market analysis. Our extensive experience in frac sand resources/reserve estimation and our knowledge of the subject property, provides BOYD an informed basis on which to opine on the frac sand reserves available at the Atlas mines. An overview of BOYD can be found on our website at www.jtboyd.com.

The individuals primarily responsible for this audit and the preparation of this report are by virtue of their education, experience, and professional association considered Qualified Persons as defined in Subpart 1300 of Regulation S-K.

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Neither BOYD nor its staff employed in the preparation of this report have any beneficial interest in Atlas, and are not insiders, associates, or affiliates of Atlas. The results of our resource/reserve estimate and subsequent audit were not dependent upon any prior agreements concerning the conclusions to be reached, nor were there any undisclosed understandings concerning any future business dealings between Atlas and BOYD. This report was prepared in return for fees based upon agreed commercial rates, and the payment for our services was not contingent upon our opinions regarding the project or approval of our work by Atlas and its representatives.

2.4 Principal Sources of Information

Information used in this assignment was obtained from: (1) Atlas files, (2) discussions with Atlas personnel, (3) records on file with regulatory agencies, (4) public sources, and (5) nonconfidential BOYD files. The basis for this report is the previously compiled BOYD technical report (BOYD Report No. 3871.000 issued in December 2018) which provided an independent estimate of frac sand reserves for the Kermit Mine and the Monahans Mine as of the commencement of mining in 2018.

Additional information was provided by Atlas including:

- Financial forecasting models.
- Historical information, including:
 - Production reports and reconciliation statements.
 - Financial statements.
 - Product sales and pricing.
 - Mine plans.
 - Site plans.
 - Operational data.

The data and work papers used in the preparation of this report are on file in our offices.

2.4.1 Site Visits

A personal inspection of the Atlas operation was made by two of BOYD's senior geology and mining staff-both qualified persons and co-authors of this report-on April 4, 2018. The site visit included: (1) observation of the active mining operations, (2) a tour of the mine site's surface infrastructure, and (3) a tour of the process plant and truck loadouts. BOYD's representatives were accompanied by Atlas' General Manager who openly and cooperatively answered questions regarding, but not limited to: site geology, mining conditions and operations, equipment usage, labor relations, operating and capital costs, current and proposed processing operations, and frac sand marketing. The predominant significant operational change to the operations since the time of our site visit has been the transition to a dredge mining scheme. The dredges were not in operation at the time of the visit.

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2.4.2 Reliance on Information Provided by the Registrant

In the preparation of this report we have relied, without independent verification, upon information furnished by Atlas with respect to: property interests; exploration results; current and historical production from such properties; current and historical costs of operation and production; and agreements relating to current and future operations and sale of production.

BOYD exercised due care in reviewing the information provided by Atlas within the scope of our expertise and experience (which is in technical and financial mining issues) and concluded the data are valid and appropriate considering the status of the subject properties and the purpose for which this report was prepared. BOYD is not qualified to provide findings of a legal or accounting nature. We have no reason to believe that any material facts have been withheld, or that further analysis may reveal additional material information. However, the accuracy of the results and conclusions of this report are reliant on the accuracy of the information provided by Atlas.

While we are not responsible for any material omissions in the information provided for use in this report, we do not disclaim responsibility for the disclosure of information contained herein which is within the realm of our expertise.

2.5 Effective Date

The frac sand reserves presented in this technical report summary are effective as of December 31, 2021. The report effective date is December 31, 2021.

2.6 Units of Measure

The US customary measurement system has been used throughout this report. Tons are dry short tons of 2,000 pounds. Unless otherwise stated, all currency is expressed in constant 2021 US Dollars (\$).

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3.0 PROPERTY OVERVIEW

3.1 Description and Location

Referring to Figure 1.1 (General Location Map), the Kermit and Monahans properties are approximately 15 miles apart. From the Kermit Property, it is approximately a 40-mile drive southeast to reach the Monahans Property.

3.1.1 Kermit Operation

The Kermit Operation, in Winkler County, Texas, is a surface frac sand mining and processing facility, located on approximately 5,826 “gross” acres (the “Kermit Property”) of which 5,341 “net” acres are controlled (leases and fee-owned) by Atlas. It is approximately seven miles northeast of the town of Kermit, with a majority of the property on the north side of State Route 115. The southeast corner of the Texas-New Mexico border is less than five miles from the northwest corner of the property.

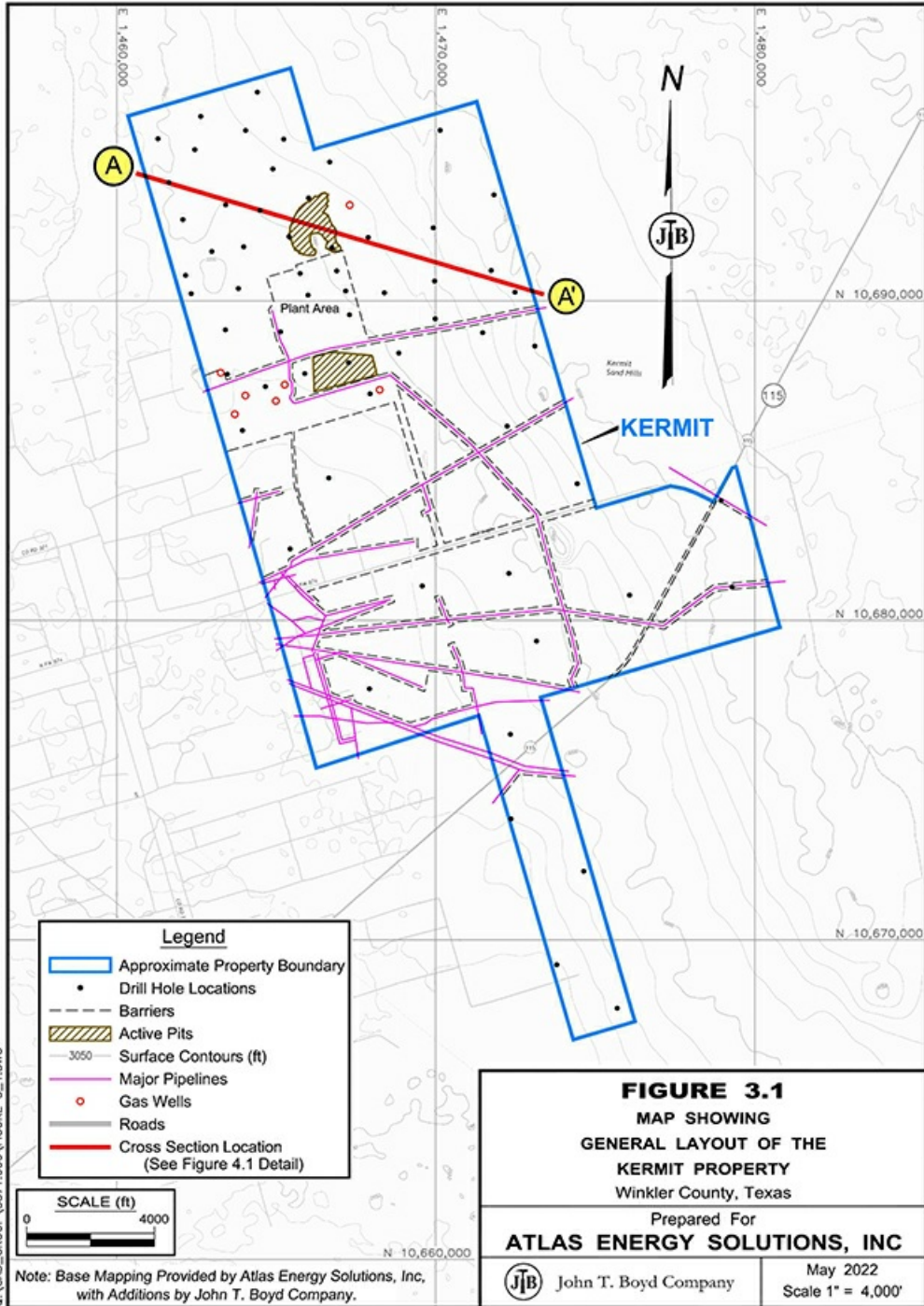
Geographically, Kermit’s frac sand processing plant is located at approximately 31° 58’ 6.29” N latitude and 103° 0’ 39.46” W longitude. Refer to Figure 3.1, which illustrates the general layout of the Kermit operation.

3.1.2 Monahans Operation

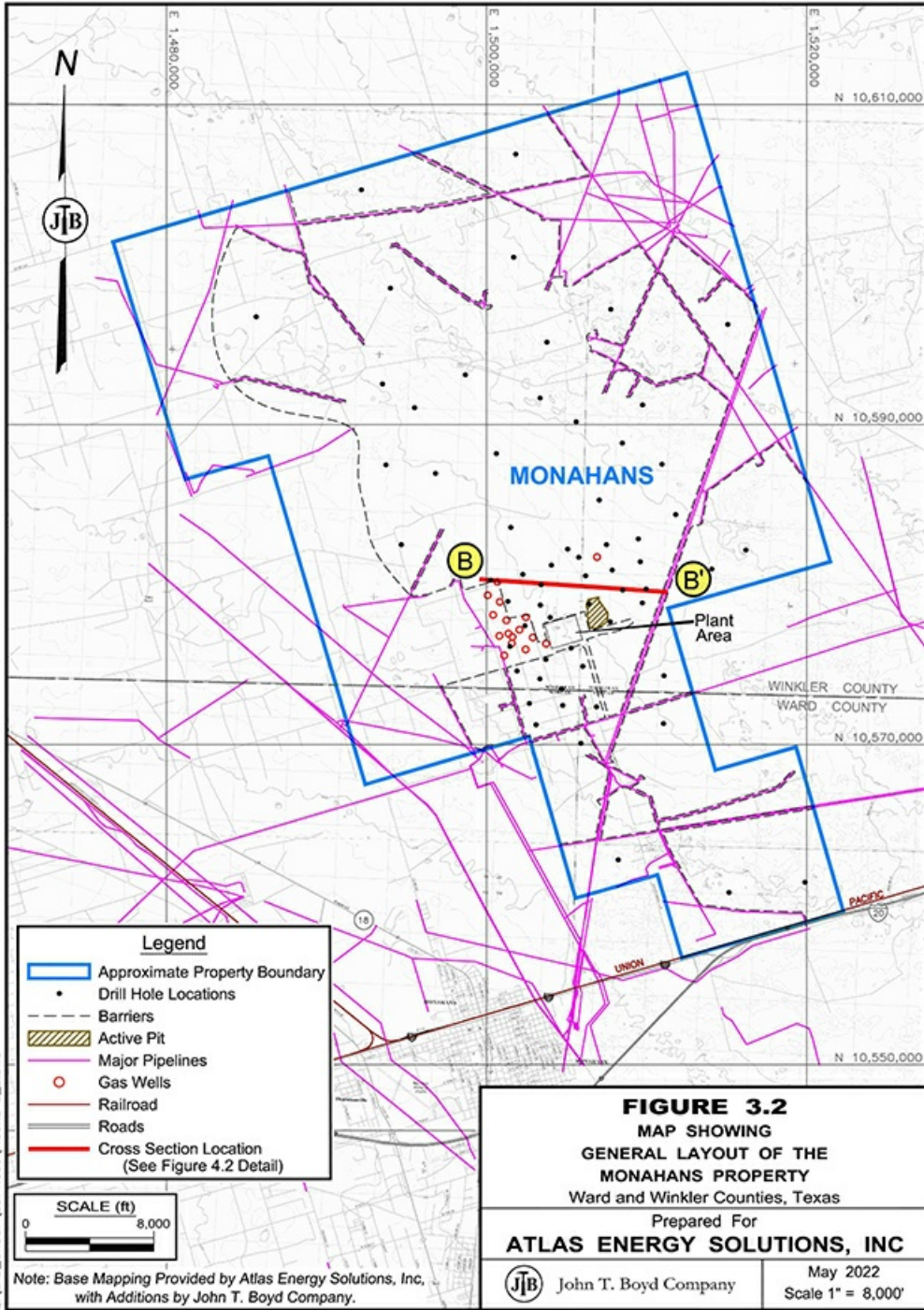
The Monahans operation, in Ward and Winkler Counties, Texas, is a surface frac sand mining and processing facility, located on approximately 32,224 “gross” acres (the “Monahans Property”) which is entirely leased by Atlas. The property is approximately three miles northeast of the town of Monahans and is situated on the north side of Highway 20. Monahans Sand Hills State Park borders the southeastern corner of the property.

Geographically, Monahans’ frac sand processing facility is located at approximately 31° 39’ 32.53” N latitude and 102° 52’ 55.46” W longitude. Refer to Figure 3.2 which illustrates the general layout of the Monahans operation.

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G:\CADD_GROUP\3871.006\FIGURE_3_1.DWG



Q:\CAD_GROUP\3871.006\FIGURE 3_2.DWG

3.2 History

Over the past four years, extensive surface mining of frac sand has been conducted in the West Texas region. In August 2017, the first “in-basin” mine began selling frac sand into the Permian Basin oil and gas industry. Since then, frac sand mines have been opened in the general vicinity of the Kermit and Monahans operations.

In June 2018, Atlas received a MSHA identification number (41-05367) for the Kermit Mine, and in July 2018 they received Monahans’ MSHA identification number (41-05369).

3.3 Property Control

Property control data provided for the Kermit and Monahans properties included maps, mining lease agreements, and royalty agreements furnished to BOYD, which have been accepted as being true and accurate for the purpose of this report.

Atlas has entered into a royalty agreement associated with its leased properties with a related party, under which they have committed to pay royalties on products sold from their production facilities. Royalty expense is recorded as products are sold, and is included in cost of sales, totaling less than 5% of costs of sales for the years ending December 31, 2020 and 2021.

Under the Monahans Lease and the Kermit Royalty Agreement, Atlas makes monthly royalty payments to Permian Dunes based on a percentage of their gross monthly proppant sand sales. The lease also includes an annual minimum royalty payment in the amount of \$1,000,000 (the “Minimum Annual Royalty Payment”) in any year of the term following an occurrence of a Capital Event.

3.3.1 Kermit Property

The Kermit Property comprises approximately 5,826 “gross” acres of which 5,341 “net” acres are controlled by Atlas (3,887 acres leased and 1,454 acres owned in fee). After applying requisite mining offsets, approximately 4,521 acres (or 78% of the property) have been explored and are considered as either mineable resources or reserves.

3.3.2 Monahans Property

The Monahans Property comprises approximately 32,224 “gross” acres which is entirely leased by Atlas. After applying requisite mining offsets, a total area covering approximately 11,187 acres (or 35%) of the Monahans Property has had exploration work completed, with dense enough drill hole coverage to be considered as frac sand

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resources and reserves, as of the date of this report. Atlas has also completed a reconnaissance-level of exploration drilling and sampling work on an additional 9,575 acres (or an additional 30%) outside of the resource and reserve areas of the Monahans Property. This “exploration target” area has a more widely spaced drilling density than the aforementioned resource and reserve areas, however drilling and testing indicates this portion of the deposit exhibits similar characteristics, both in thickness and frac sand quality.

3.4 Adjacent Properties

The region has seen mining of the surficial sand deposits for purposes of producing frac sand. In the general vicinity of the Kermit and Monahans operations, other existing frac sand mining operations have been opened in Ward and Winkler counties, as well as in surrounding counties. The Kermit operation is closer to the New Mexico oil and gas fields than the Monahans operation.

3.5 Regulation and Liabilities

Mining and related activities for the Atlas operations are predominantly regulated by the TCEQ.

The Kermit Operation has a Permit-By-Rule number of 148113, and their current NSR air pollution control permit is renewable in 2028. Other permits include Aggregate Production Operation, SPCC (Spill Plan), Septic Tank, and Water Well (temporary approval which expires in March 2022).

The Monahans Operation has a Permit-By-Rule number of 148572, and their current NSR air pollution control permit is renewable in 2028. Other permits include Aggregate Production Operation, SPCC (Spill Plan), Septic Tank, and Water Well (temporarily in service waiting approval of the permit).

Atlas participates in a voluntary Candidate Conservation Agreement with Assurances (CCAA) for the Dune Sagebrush Lizard (DSL). The agreement, which Atlas signed in January 2021, lasts for 23 years. Their voluntary participation in the CCAA effectively mitigates DSL regulatory risk for the Atlas Kermit and Monahans mining operations. Atlas can either set aside acreage for DSL habitat or contribute cash to continue participating in the CCAA. Atlas holds significant sand acreage outside of their current resources and reserves that would be able to be contributed or set aside for the CCAA, allowing them to continue mining operations, even if the DSL is listed as an endangered species. Atlas did not inform BOYD of any issues related to the DSL with regards to mining of the Kermit and Monahans properties.

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3.6 Accessibility, Local Resources, and Infrastructure

3.6.1 Kermit Property

The Kermit Property is located near small rural towns in western Texas and southeastern New Mexico. The surrounding region has a well-established history of oil and gas production, being located within the center of the Permian Basin. Winkler and the surrounding counties have a combined population of over 280,000 people, according to 2020 population estimates by the Texas Demographic Center and Lea County, New Mexico.

General access to the Kermit Property is via a well-developed network of primary and secondary roads serviced by state and local governments. These roads offer direct access to the mine and processing facilities and are generally open year-round. Primary vehicular access to the property is via SR 115, running north-south. Various state highways (302, 115, 18, 128) in Texas and New Mexico are accessible to the subject property and provide primary access to various portions of the oil and gas fields.

The Midland International Air and Space Port is located approximately 45 miles southeast of the Kermit Operation, and there are additional local/regional airports located within a 65-mile radius of the Kermit Property.

With regards to utilities, three phase electrical power is supplied to the property from a local utility, a natural gas line supplies gas to the dry plant, and other miscellaneous services are readily available. Water is gathered in a central collection pond or mine pit reservoir which acts as the primary source of water. In addition, 14 water wells drilled throughout the property function as a backup source of water.

3.6.2 Monahans Property

The Monahans Property is located near small rural towns in western Texas. The region has a well-established history of oil and gas production, being located within the center of the Permian Basin. Ward, Winkler, and the surrounding counties have a combined population of over 225,000 people, according to 2020 population estimates by the Texas Demographic Center.

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General access to the Monahans Property is via a network of primary and secondary roads serviced by state and local governments. These roads offer direct access to the mine and processing facilities and are generally open year-round. Primary vehicular access to the property is via SH 18, which runs northeast-southwest, and Interstate 20 which also runs northeast-southwest below the southern boundary of the property. These roads provide access to various portions of the oil and gas fields. In addition, a connection to the UP railroad via the Texas-New Mexico railroad branch line is located in the city of Monahans.

The Midland International Air and Space Port is approximately 40 miles east of the Monahans operation, and there are additional local/regional airports located within a 50-mile radius of the Monahans property.

Regarding utilities to the property, three phase electrical power is supplied from a local utility, a natural gas line supplies gas to the dry plant, and other miscellaneous services are available. Water is gathered in a central collection pond which acts as the primary source of water. In addition, 21 water wells drilled throughout the property provide a backup supply of water.

3.7 Physiography

The Kermit Property and the Monahans Property are situated within the Texas Great Plains physiographic province, a region encompassing much of northwestern and western Texas. The surrounding areas generally consist of desert valleys covered with windblown sheet and dune sands, high plains covered with thick alluvium (the Llano Estacado or Staked Plains), or plateaus consisting of thin carbonate-based soils (the Caprock Escarpment). The two properties encompass a majority of the active dune complexes found in this area. The plateau areas, typically covered by a weathering-resistant caliche (a hardened natural cement of calcium carbonate that binds other materials-such as gravel, sand, clay, and silt), may abruptly stand up to 1,000 ft above the plains. Much of the region may be covered by various types of desert scrub grasses, sages, yuccas, junipers, shin oaks, and mesquites.

3.8 Climate

3.8.1 Kermit Operation

Climate for the Kermit operation is generally arid with mild winters and hot summers. Average monthly high temperatures range from 59°F to 95°F, with June, July, and August being the hottest months. Average monthly low temperatures range from 28°F to 69°F, with the winter months of December, January, and February exhibiting average lows at or below freezing (32°F). Average annual precipitation is about 15 in. Table 3.1 provides monthly temperature and precipitation climate statistics from the National Oceanic and Atmospheric Administration (NOAA) for the period 2004 through 2020 for the Kermit area.

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Table 3.1: Climate Data for Kermit, Texas

Averages (2004-2020)	Units	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
High Temperature	°F	59	65	72	81	88	94	95	94	88	80	69	61
Low Temperature	°F	28	32	40	48	57	67	69	68	61	50	38	29
Average Precipitation	inches	0.40	0.60	0.87	0.63	1.72	1.87	1.90	1.66	2.17	1.53	0.68	0.58

Source: National Oceanic and Atmospheric Administration
https://www.weather.gov/maf/cli_maf_coop_annprecip_kermit

3.8.2 Monahans Operation

Climate for the Monahans operation is generally arid with mild winters and hot summers. Average monthly high temperatures range from 60°F to 97°F, with June, July, and August being the hottest months. Average monthly low temperatures range from 28°F to 69°F, with the winter months of December, January, and February exhibiting average lows at or below freezing (32°F). Average annual precipitation is about 14 in. Table 3.2 provides monthly temperature and precipitation climate statistics from NOAA for the period 1981 through 2010 for the Monahans area.

Table 3.2: Climate Data for Monahans, Texas

Averages (1981-2010)	Units	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
High Temperature	°F	60	65	73	82	91	97	97	96	90	81	70	60
Low Temperature	°F	28	33	40	47	58	67	69	68	61	50	37	28
Average Precipitation	inches	0.58	0.70	0.59	0.64	1.44	1.37	1.94	1.68	2.16	1.66	0.60	0.79
Average Snowfall	inches	0.20	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.50

Source: National Oceanic and Atmospheric Administration
https://www.weather.gov/maf/cli_maf_coop_annprecip_monahans

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4.0 GEOLOGY

4.1 Regional Geology

Quaternary-aged sand formations are present across the surface of much of the area in and around the Kermit and Monahans properties. Both properties contain active dune complexes, consisting of large and open dunes exposed at the surface, which are constrained by the Llano Estacado Caprock to the east, and caliche outcrops to the west. Much of the surrounding areas contain surficial deposits consisting primarily of windblown sheet sands, ancient dunes, and dune ridges.

4.2 Local Stratigraphy

Surficial geologic units overlying the properties and surrounding areas are predominantly Quaternary age unconsolidated deposits, ranging from windblown dunes and sheet sands to alluvial sands, silts, clays, and caliche. Origins of these deposits are believed to be a combination of eroded bedrock material from the southern Rocky Mountains, and locally eroded Ogallala Formation sandstone. As portions of the southern Rockies were eroded via weathering, particles were carried to the Pecos River. Ancient flooding events of the Pecos River resulted in the suspended particles being deposited into flood plains. Once flood waters receded, winds took over, drying and further transporting these particles into the western Texas region.

The Llano Estacado Caprock Escarpment marks the eastern-most extent of the surficial sand deposits. Winds transporting particles into the area are thought to have collided with the escarpment, causing them to slow and drop particles out of suspension, where they have accumulated over time. Winnowing processes caused a further degree of particle sorting to occur. Due to the mechanisms and long distances of particle transport, sand grains were abraded and rounded as they reached their current locations.

These processes resulted in the formation of the Kermit and Monahans dune fields, covering an area of approximately 5-10 miles wide, and 60 miles long, extending primarily through Winkler and Ward counties in west Texas. Cross sections created from the geologic models of each property are presented for the Kermit and Monahans properties in Figures 4.1 and 4.2, respectively, with locations of each cross section shown on Figures 3.1 and 3.2, respectively. Also, a representative stratigraphic column from 1 drill hole completed within each of the subject properties is also presented in Figure 4.3 for reference.

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G:\CAD_GROUP-jg\3871.006\FIGURE 4-1.DWG

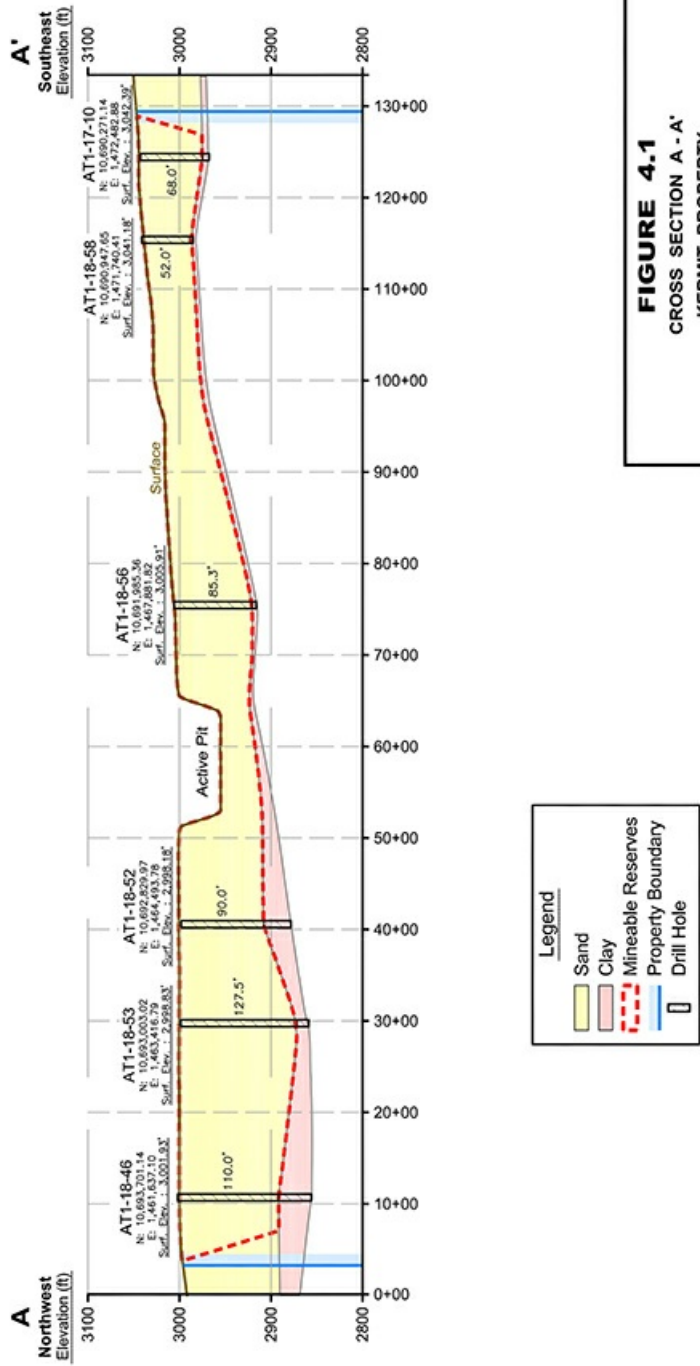


FIGURE 4.1
CROSS SECTION A - A'
KERMIT PROPERTY
Winkler County, Texas

Prepared For
ATLAS ENERGY SOLUTIONS, INC
John T. Boyd Company
May 2022
Scales as Shown

SCALES
Vertical 1" = 1500'
Horizontal 1" = 150'

Note : See Figure 3.1 for Cross Section Location.

D:\CAD_GROUP-jig\3871.006\FIGURE 4-2.DWG

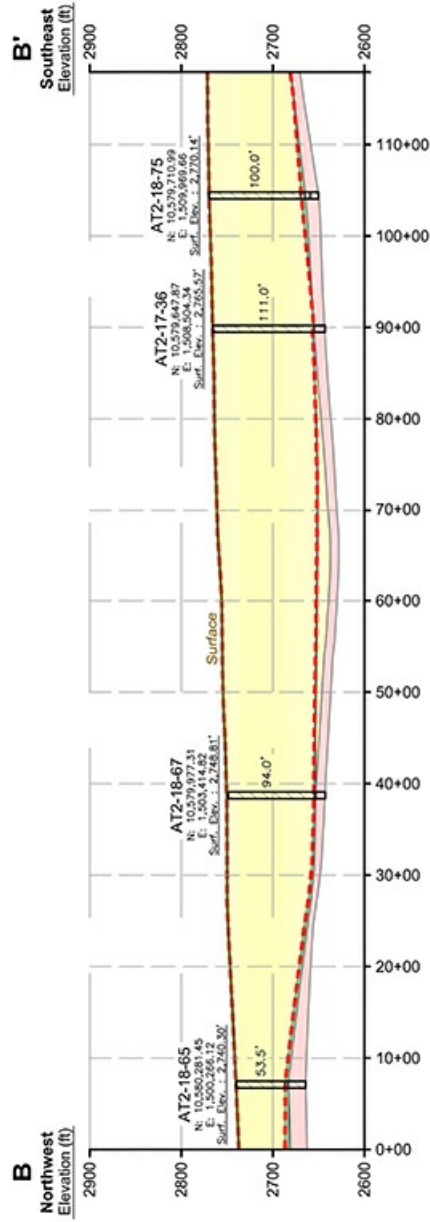


FIGURE 4.2

CROSS SECTION B - B'
MONAHANS PROPERTY

Ward and Winkler Counties, Texas

Prepared For

ATLAS ENERGY SOLUTIONS, INC

John T. Boyd Company

May 2022

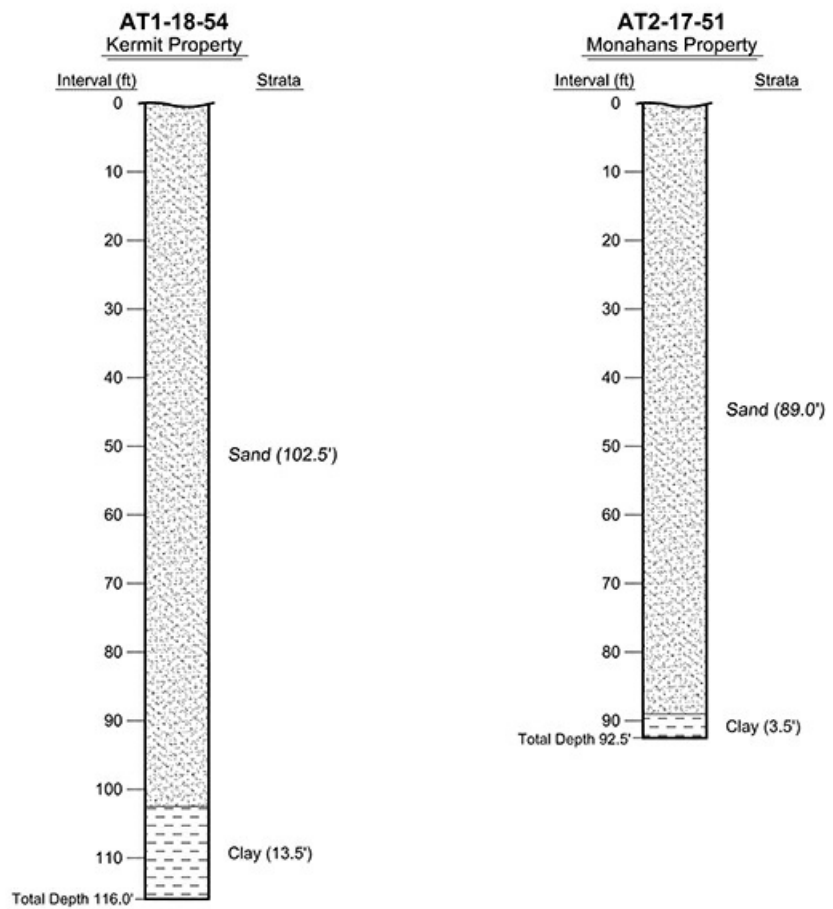
Scales as Shown

SCALES

Vertical 1" = 1500'

Horizontal 1" = 150'

Note : See Figure 3.2 for Cross Section Location.



G:\CAD_GROUP-jtg\3871.006\FIGURE 4-3.DWG

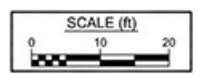


FIGURE 4.3
STRATIGRAPHIC COLUMNS
OF DRILL HOLES AT1-18-54 AND AT2-17-51
KERMIT AND MONAHANS PROPERTIES
 Ward and Winkler Counties, Texas

Prepared For
ATLAS ENERGY SOLUTIONS, INC

John T. Boyd Company	May 2022 Scale 1" = 20'
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The present-day dune system and surrounding sheet sands are largely vegetated, however the active dune fields, on which Atlas' Kermit and Monahans operations are located, contain no discernable overburden materials except for sparse areas of vegetation and roots that are removed during processing. The Kermit and Monahans deposits are mineable from the surface down, to the total defined depth of the dune and sheet sand deposit as is further defined by the drilling and sampling campaigns explained in Chapter 5.

Quaternary unconsolidated dune deposits cover the subject properties, generally ranging in thickness from 60-ft to over 100-ft, which is above average thicknesses seen in other surficial sand deposits of the area. A generalized stratigraphic chart of the geologic units in Ward and Winkler counties, Texas is presented in Figure 4.4.

System	Series	Geologic Unit
Quaternary	Pleistocene / Holocene	Sheet and Dune Sand
	Pleistocene	Unconsolidated Alluvium
Neogene	Pliocene	Ogallala Formation

Figure 4.4: Generalized Stratigraphic Chart, Surficial Deposits of Ward and Winkler Counties, TX

4.2.1 Quaternary Sheet and Dune Sands

The Kermit and Monahans properties are uniformly covered by Quaternary dune and sheet sands generally consisting of fine-to medium-grained quartz sand grains mixed with varying degrees of silts, calcareous sands, and caliche nodules. Surficial sand deposition may range in thickness from less than 10-ft of windblown sheet sands to over a hundred feet of dune sands. Unconsolidated alluvial deposits consisting of pebble-to cobble-sized limestone and chert nodules overlain by silts are found to the east of the properties.

4.2.2 Ogallala Formation

The Ogallala Formation is predominantly comprised of weakly cemented to unconsolidated fine-to medium-grained sands, which may be silty and calcareous in places. A caliche caprock is frequently exhibited, which resists weathering and forms ledges. Thickness of this formation has been recorded up to 550 ft.

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4.3 Frac Sand Geology

Frac sand is a naturally occurring, high silica content quartz sand, with grains that are generally well-rounded and monocrystalline. The main difference between frac sand and other sands is that frac sand grains are relatively pure in composition, consisting almost entirely of quartz; other sands have numerous impurities that may be cemented to the quartz grains. The pure quartz composition of frac sand grains, along with being well-rounded and spherical in shape, gives these sands the characteristics (crush strength, high acid solubility, low turbidity) that are sought after by oil and gas producers for use in developing wells.

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5.0 EXPLORATION DATA

5.1 Background

In-basin frac sand mines, such as the Kermit and Monahans mines in west Texas, are a relatively new extension of the frac sand mining industry. The first in-basin frac sand mines in the United States opened in the Permian Basin of Texas in late-2017. As these operations began fulfilling contracts in-basin oil and gas exploration and production (E&P) companies, producers noted favorable results using the locally sourced proppants. Since in-basin mining and sales began in the Permian Basin, nearly every other energy basin has gone through a period of frenzied exploration to locate suitable local sources of frac sands. Many E&Ps shifted their approach from requiring only premium branded frac sands, such as Northern White Sand, to using higher quantities of locally sourced and lower-priced frac sands, with positive results.

5.2 Exploration Procedures

5.2.1 Drilling, Sampling, and Sample Security

Atlas, in developing the Kermit and Monahans properties, contracted Westward to perform a series of drilling and sampling campaigns on the Kermit and Monahans properties, which occurred over the period June 2017 through March 2018. The two main goals of the campaigns were to: (1) define the lateral extent and thickness of the potentially mineable deposit, and (2) obtain samples through the total depth of mineable sand found on each property for the purpose of determining grain size distribution and for testing to determine proppant performance qualities.

The drilling and sampling campaigns were executed in equivalent manner on each property, as Westward supervised the field work and geologically logged, photographed, and sampled each drill hole. Drilling was conducted utilizing track-mounted rotasonic drilling rig, which was selected not only as it would provide highest potential core recoveries in the loosely deposited dune and sheet sand formations found on the subject properties, but also because the loose surface material required track mounted vehicles to traverse most areas within the subject properties as well.

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Each drill hole was completed by advancing the 6.25-inch outside diameter core barrel 10-ft at a time and recovering a 4.50-inch diameter core sample for each drilling run. Each recovered core was extruded into two 5-ft sample bags, with depths written on each bag by the driller. After logging and photographing an interval, cores were then sampled, generally on 5-ft or 10-ft increments, from the surface through the total mineable depth of sand. Sample material was obtained from each recovered core interval by gathering material along the entire length of the core with a hand trowel, in order to obtain a representative sample of the entire length of core. Sample material was placed into burlap sample bags as it was gathered from the core, and each bag was labeled with the drill hole name and the top and bottom sample depth. This process was completed a second time to create a duplicate sample set of each interval drilled.

Westward geologists and geological technicians determined the terminus of the sampling interval of a drill hole when the amount of sand in a recovered interval was neither the first nor second most abundant material present. All drilled intervals were geologically logged, photographed, and sampled in duplicate throughout the duration of each of the drilling campaigns.

Drilling samples were kept on-site in a secure location until the laboratory set was shipped to the respective labs, at which time Atlas obtained the duplicate set of samples for archival purposes.



Figure 5.1: Drill Hole Sand Sample

5.2.1.1 Initial Drilling and Sampling Campaigns

The initial drilling and sampling campaigns were conducted in 2017 and utilized widely spaced exploration drill holes, with nominal spacing of 3,000 ft to 4,500 ft between drill holes (one hole drilled per section of controlled property). These exploration campaigns were aimed at determining the depth and lateral extent of the sand deposits across the Kermit and Monahans properties. Drilling and sampling results for each property were reviewed, and areas were identified as potential locations to commence mining operations.

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Westward retained Boart Longyear to drill the Kermit and Monahans properties, resulting in 36 holes drilled and sampled on the Kermit Property over the period of June to July 2017, and 53 holes drilled and sampled on the Monahans Property over the period June to August 2017.

All sample analyses conducted in the initial drilling and sampling campaigns were performed by PropTester in Cyprus, Texas.

5.2.1.2 Infill Drilling and Sampling Campaigns

When the initial drilling and sampling campaigns were completed and the associated lab testing results were reviewed, Atlas retained BOYD to design an infill drilling campaign within the designated initial mining areas of each property. The ultimate goal of the 2018 infill drilling campaigns was to be able to classify the designated initial mining areas of each property as Proven and Probable Reserves.

Westward supervised the drilling activities and performed geological logging and sampling. In order to expedite the infill drilling and sampling campaigns, two drilling companies were used, both utilizing very similar track mounted Rotosonic drilling rigs. Boart Longyear performed drilling work on the Kermit Property, and Yellow Jacket Drilling performed drilling work on the Monahans Property.

Both infill drilling campaigns were completed in March 2018, with an additional 25 holes being drilled and sampled on the Kermit Property, and 27 holes being drilled and sampled on the Monahans Property. As a result of the infill drilling program, each property now had a nominal 1,500-ft drill hole spacing within their designated initial mining areas.

Sieve (gradation) analyses on the samples collected were performed by PropTester, FracTAL, and Lonquist. Crush testing and APIRP-19C/ISO 13503-2 testing (proppant characteristic testing) was performed by PropTester on three separate entire hole composite samples created from select drill hole samples for each property.

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Table 5.1 below presents a summary of the drilling and sampling programs completed on each property.

Table 5.1: Atlas Drilling and Sampling Summary

	Rotasonic Holes Drilled and Sampled		
	Initial*	Infill**	Combined
Kermit Property	36	25	61
Monahans Property	53	27	80
Total	89	52	141

* Drilled and sampled June to August 2017

** Drilled and sampled March 2018

Refer to Figures 3.1 and 3.2, which show drill hole locations within the Kermit and Monahans properties, respectively.

5.2.2 Frac Sand Quality Testing

Sample preparation and testing was completed in generally the same manner for each property and each drilling campaign. After samples were delivered to the respective testing laboratory, they were catalogued and then prepared for analysis. Sample preparation generally consisted of thoroughly mixing a sample and obtaining a large enough amount of material to perform the required analysis. Prepare samples were dried, weighed, washed over a 200-mesh sieve, dried again, and then weighed again in order to determine the percentage of material that may remain after going through a wash plant. The remaining sample material was further split through a riffle splitter to create multiple samples that may be used for individual sieve analyses, and any further testing required.

For the initial drilling and sampling campaigns, PropTester performed the sieve (gradation) analyses on samples from both the Kermit and Monahans Properties.

The infill drilling and sampling campaign lab testing was split up between different labs, in order to expedite analyses of drilling samples. The Kermit Property infill drilling and sampling sieve (gradations) analyses were performed by both PropTester and FracTAL. PropTester created composite samples and performed the crush tests and API RP-19C/ISO 13503-2 testing. The Monahans property infill drilling and sampling sieve analyses were performed by Lonquist, while PropTester again prepared composite samples and performed the crush tests and the API RP-19C/ISO 13503-2 testing.

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5.2.3 Other Exploration Methods

No other methods of exploration, such as airborne or ground geophysical surveys, were reported to BOYD by Atlas for either the Kermit Property or the Monahans Property.

5.3 Laboratory Testing Results

The relatively uniform and clean nature of the sampled dune deposits underlying the Kermit and Monahans properties, combined with laboratory testing results, indicated that the subject properties would yield a combination of 40/70-mesh and 70/140-mesh proppant sand products that meet customer specifications for in-basin proppant sand applications within the Permian basin.

5.3.1 Laboratory Testing

5.3.1.1 Grain Size Distribution

Grain size distribution was analyzed according to APIRP-19C /ISO 13503-2, Section 6. The weighted average grain size distribution, based on laboratory testing results, as contained within the in-place sand resources for each property is presented in Table 5.2.

Table 5.2: Grain Size Distribution

Property	Approximate In-Place Product Distribution					
	% Retained By Mesh Size				% Product	
	+ 40	40/70	70/140	-140	40/70	70/140
Kermit	1.6	46.6	37.1	14.7	54.9	45.1
Monahans	2.9	54.4	34.4	8.3	61.2	38.8

The grain size distribution data highlights the relative fineness of the sand found within Atlas' properties and indicates that a majority of the sand particles are concentrated between the passing 40-mesh and retained 140-mesh size fraction. Accordingly, the predominant marketable product from Atlas' Kermit and Monahans properties consist of the 40/140-mesh size sands. Refer to Figures 5.2 and 5.3 for percent of in-place frac sand material isopleths, 40/70-mesh and 70/140-mesh respectively, for the Kermit Property, and Figures 5.4 and 5.5 for percent of in-place frac sand material isopleths, 40/70-mesh and 70/140-mesh respectively, for the Monahans Property.

5.3.1.2 Grain Shape (Sphericity and Roundness)

Grain shape was analyzed according to APIRP-19C /ISO 13503-2, Section 7. Under this standard, recommended sphericity and roundness values for proppants are 0.6 or greater. As part of the grain shape analysis, the presence of grain clusters (weakly cemented grain aggregates) and their approximate proportion in the sample were reported.

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5.3.1.3 *Crush Resistance*

Crush resistance is a key test that determines the amount of pressure a sand grain can withstand under laboratory conditions for two-minute duration. It is analyzed according to API RP-19C /ISO 13503-2, Section 11. Under this standard, the highest stress level (psi) in which the proppant produces no more than 10% crushed fine material is rounded down to the nearest 1,000 psi and reported as the “K-value” of the material.

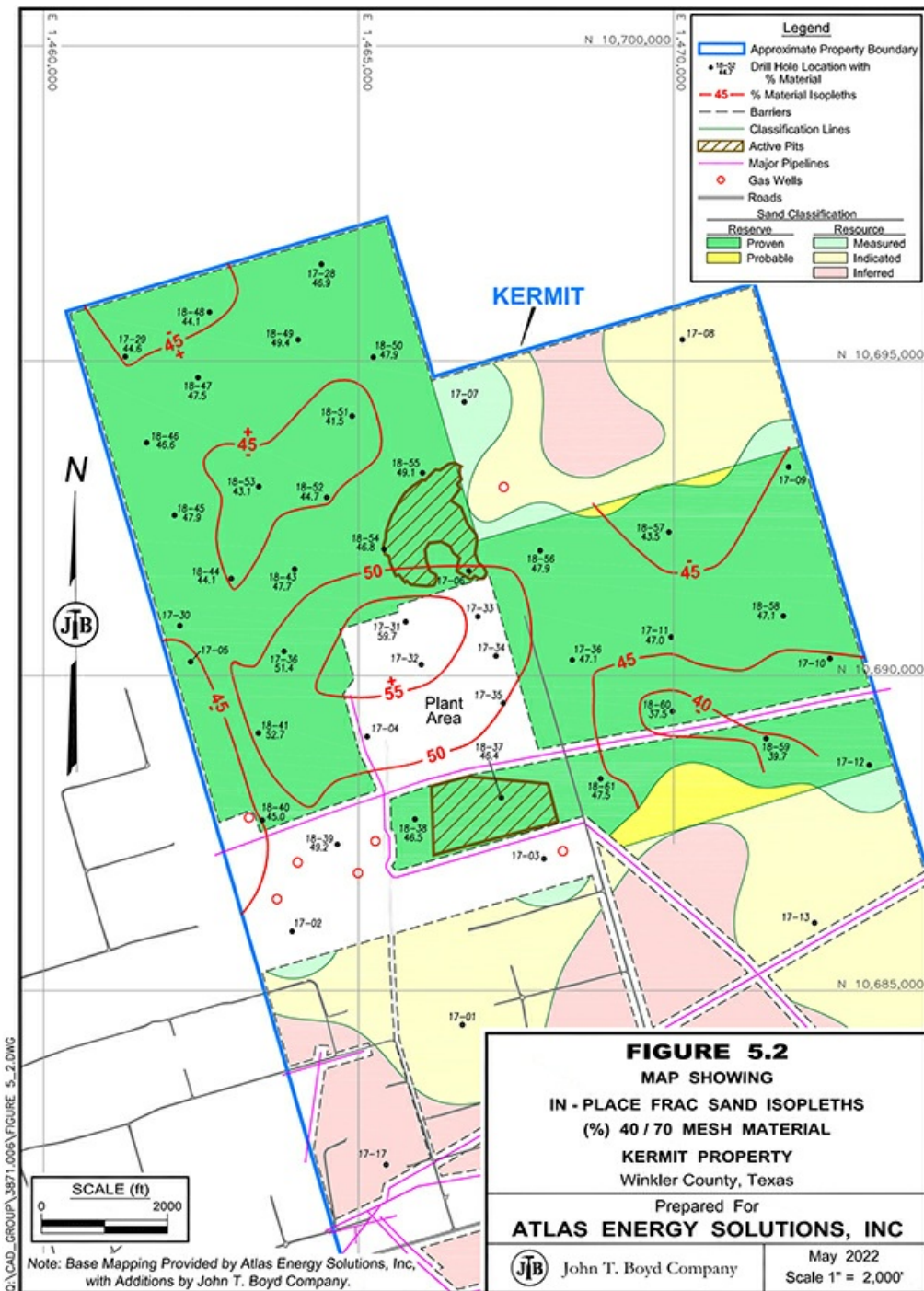
5.3.1.4 *Acid Solubility*

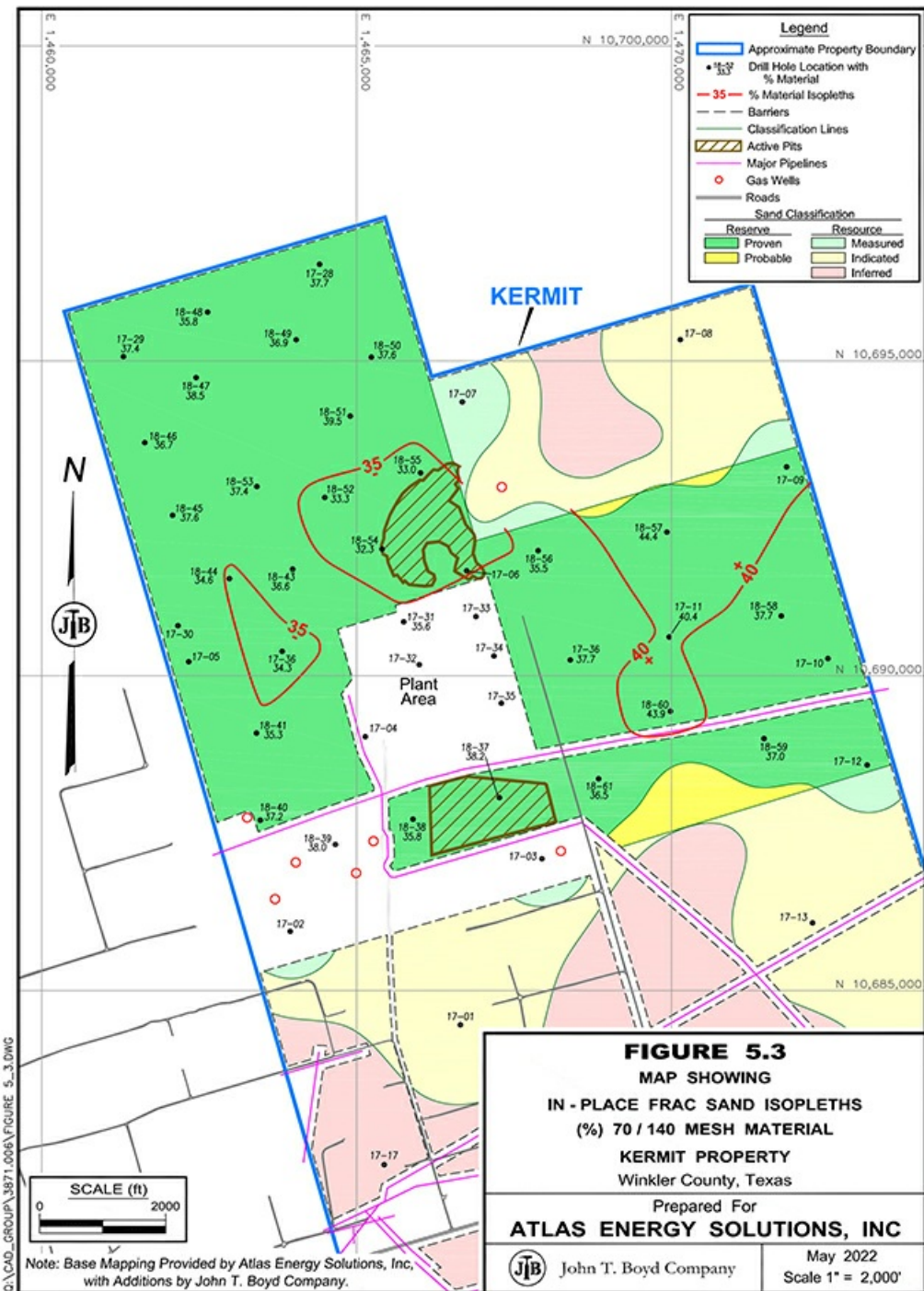
Acid solubility was analyzed according to API RP-19C /ISO 13503-2, Section 8. Under this standard, 5 grams of proppant is treated with 100 ml of 12:3 HCl: HF at 150oF for 30 minutes. The recommended maximum acid solubility for proppants in the 40/70 size range and finer is 3.0%.

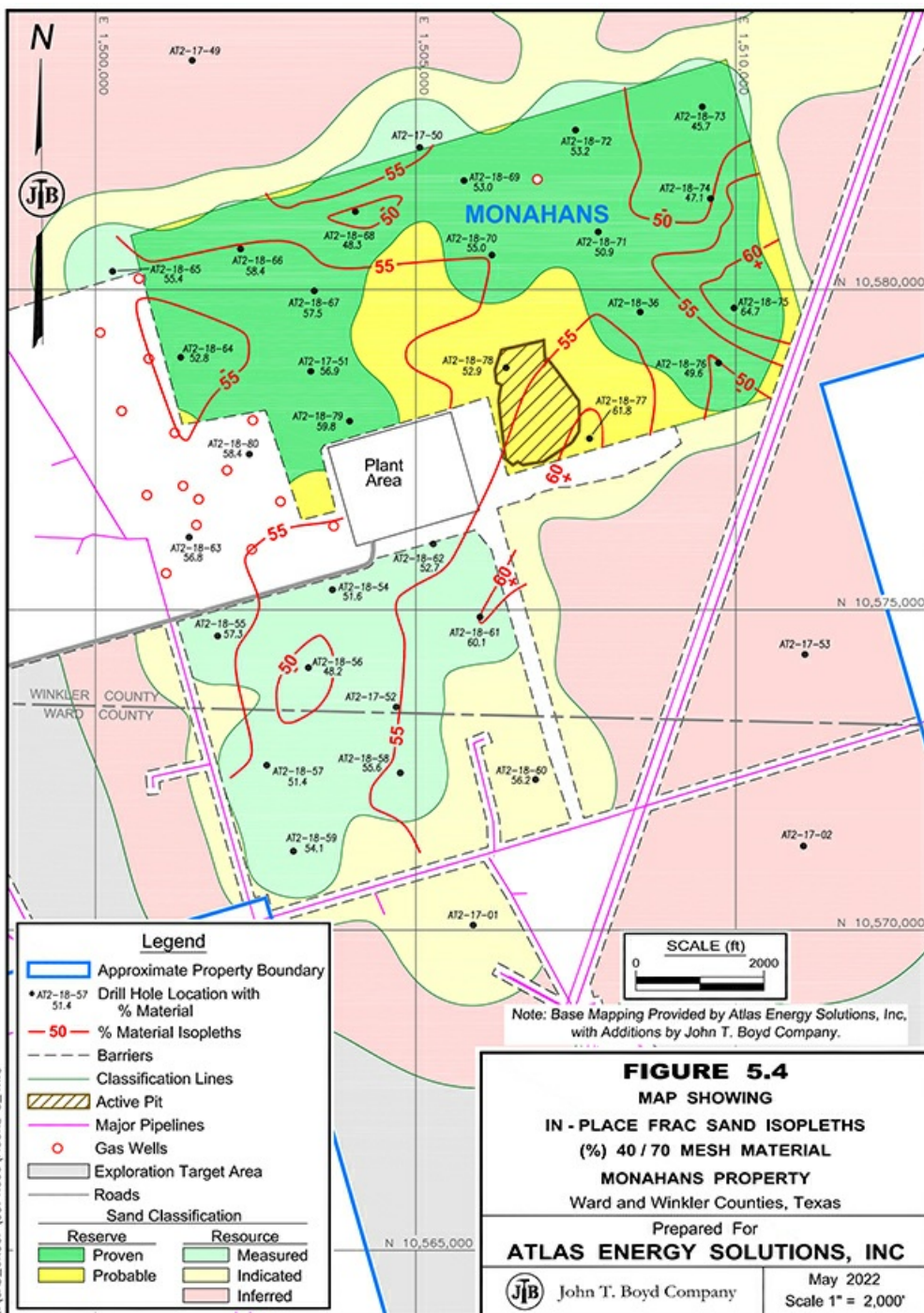
5.3.1.5 *Turbidity*

Turbidity was analyzed according to API RP-19C/ISO 13503-2, Section 9. Under this standard, the suggested maximum frac sand turbidity should be equal to or less than 250 nephelometric turbidity units (NTU).

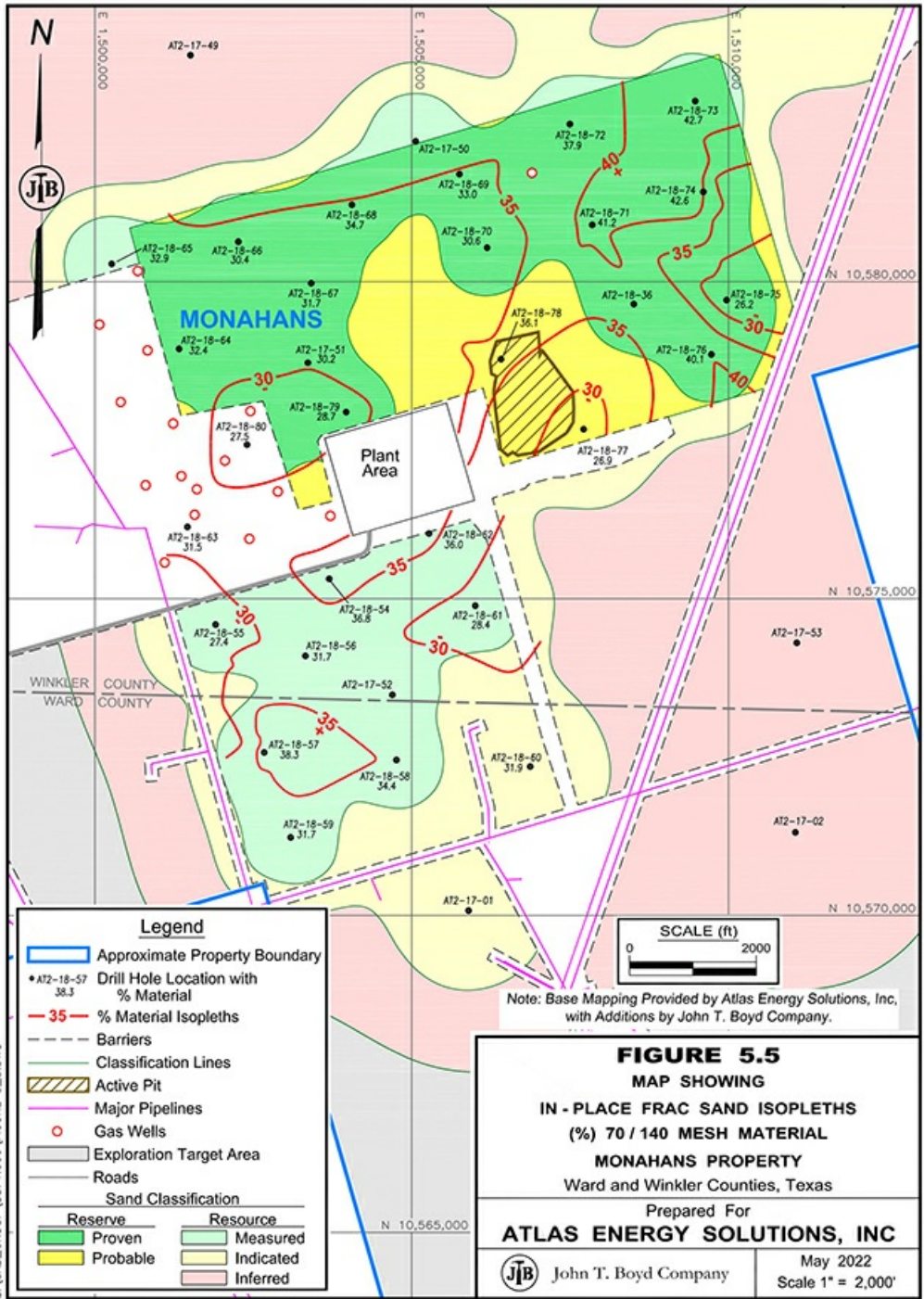
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G:\CAD_GROUP\3871.006\FIGURE_5_4.WG



C:\CAD_GROUP\3871.006\FIGURE 5_5.DWG

5.3.2 Quality Summary

PropTester and Lonquist performed APIRP-19C/ISO 13503-2 tests on composite samples created from sample material collected during the drilling campaigns on the Kermit and Monahans properties. The purpose of this testing was to obtain an indication of the “overall quality” characteristics of the mineable sand materials contained on the subject properties. Three drill holes located within the infill drilling areas of each property were selected to create composite samples, which consisted of samples from the entire depth drilled from each hole selected. The testing labs then created a 40/70-mesh and 40/140-mesh product cut from each drill hole composite, which were analyzed for the full suite of APIRP-19C/ISO 13503-2 proppant sand characteristics.

Atlas also performed additional crush testing to check for variability in grain strength throughout the total depth of the mineable sand interval. These additional crush tests were conducted on every 10-ft sample interval from two additional drill holes on each property. Overall, this extensive testing indicated relatively uniform range of crush values through the entire depth of the deposit, with the exception of one or two intervals where a caliche interval was not completely removed before performing the crush tests. Results from the intervals containing caliche were about 1,000 psi less than all other intervals tested, and as such were not included in the summary quality data.

Combining the extensive crush testing conducted with the API testing performed on the composite samples, Atlas has completed a comprehensive review of grain characteristics for each of the reserve areas within the subject properties. The data indicate little variability within the overall mineable deposit of each property.

BOYD opines that the methodologies utilized during exploration, sampling, handling, security, preparation, and testing procedures generally meet standard industry practice, and present an unbiased overview of the deposits contained in the subject properties.

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Sample testing results are summarized in Table 5.3 below for each product size analyzed within each property:

Table 5.3: Proppant Performance Test Results for Kermit and Monahans

Test	Average ISO/API Test Results By Product Size and Property				
	40/70-mesh			40/140-mesh*,**	
	Kermit	Monahans	Recommended Specification	Kermit	Monahans
Sphericity	0.7	0.7	≥ 0.6	0.7	0.7
Roundness	0.8	0.7	≥ 0.6	0.7	0.7
Acid Solubility (%)	1.1	0.9	≤ 3.0	2.6	1.6
Turbidity (NTU)	15.0	7.0	≤ 250	15.0	13.0
K-Value (000 psi)	7 - 8	7 - 8	—	10 - 11	10 - 11

* 100-mesh proppant sand material currently does not have an API/ISO specification.

** Test results were for a single 40/140-mesh product.

5.4 Data Verification

While BOYD was not involved in the field work portions of the drilling and testing campaigns, the procedures used in each phase are considered to be appropriate. The resulting data provided from these campaigns, combined with subsequent laboratory testing results, are deemed to be adequate for the purposes of the technical report summary, and serve as the basis of BOYD's estimate of resources and reserves underlying the Atlas Kermit and Monahans properties. In April 2018, BOYD representatives visited and toured both Atlas properties, at which time we reviewed a sample of exploration drilling locations, examined core samples, observed plant construction activities, and discussed various aspects of operating plans for each of the subject properties.

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6.0 FRAC SAND RESOURCES AND RESERVES

6.1 Applicable Standards and Definitions

Unless otherwise stated, frac sand resource and frac sand reserve estimates disclosed herein are completed in accordance with the standards and definitions provided by S-K 1300. It should be noted that BOYD considers the terms “mineral” and “frac sand” to be generally interchangeable within the relevant sections of S-K 1300.

Estimates of any mineral resources and reserves are always subject to a degree of uncertainty. The level of confidence that can be applied to a particular estimate is a function of, among other things: the amount, quality, and completeness of exploration data; the geological complexity of the deposit; and economic, legal, social, and environmental factors associated with mining the resource/reserve. By assignment, BOYD used the definitions provided in S-K 1300 to describe the degree of uncertainty associated with the estimates reported herein.

The definition of mineral (frac sand) resource provided by S-K 1300 is:

Mineral resource is a concentration or occurrence of material of economic interest in or on the Earth's crust in such form, grade or quality, and quantity that there are reasonable prospects for economic extraction. A mineral resource is a reasonable estimate of mineralization, taking into account relevant factors such as cut-off grade, likely mining dimensions, location or continuity, that, with the assumed and justifiable technical and economic conditions, is likely to, in whole or in part, become economically extractable. It is not merely an inventory of all mineralization drilled or sampled.

Estimates of frac sand resources are subdivided to reflect different levels of geological confidence into measured (highest geologic assurance), indicated, and inferred (lowest geologic assurance)

The definition of mineral (frac sand) reserve provided by S-K 1300 is:

Mineral reserve is an estimate of tonnage and grade or quality of indicated and measured mineral resources that, in the opinion of the qualified person, can be the basis of an economically viable project. More specifically, it is the economically mineable part of a measured or indicated mineral resource, which includes diluting materials and allowances for losses that may occur when the material is mined or extracted.

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Estimates of frac sand reserves are subdivided to reflect geologic confidence, and potential uncertainties in the modifying factors, into proven (highest assurance) and probable.

Figure 6.1 shows the relationship between frac sand resources and frac sand reserves.

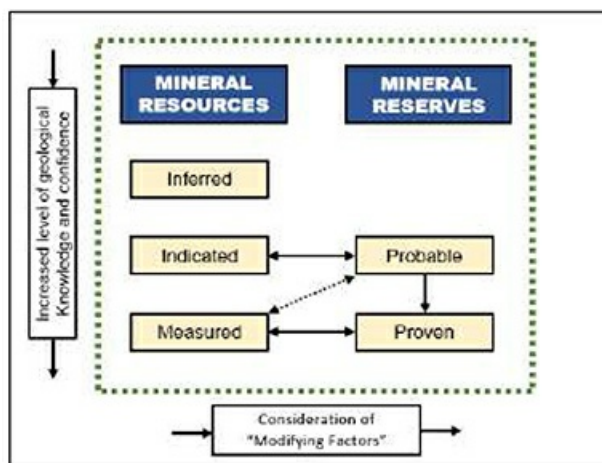


Figure 6.1: Relationship Between Frac Sand Resources and Frac Sand Reserves

In this report, the term “frac sand reserves” represent the tonnage of frac sand products that meets customer specifications and will be available for sale after processing of the ROM sand.

6.2 Frac Sand Resources

6.2.1 Methodology

BOYD independently prepared separate estimates of in-place frac sand resources for Atlas’ Kermit and Monahans operations by performing the following tasks:

1. Available drilling logs and laboratory testing results were compiled and reviewed to check for accuracy and to support development of each operation’s geologic model. The geologic databases utilized for modeling and estimation consist of results from 61 drill holes completed on the Kermit Property, and 80 drill holes completed on the Monahans Property. The geologic data were imported into Carlson Software, a geologic modeling and mine planning software suite that is widely used and accepted by the mining industry.

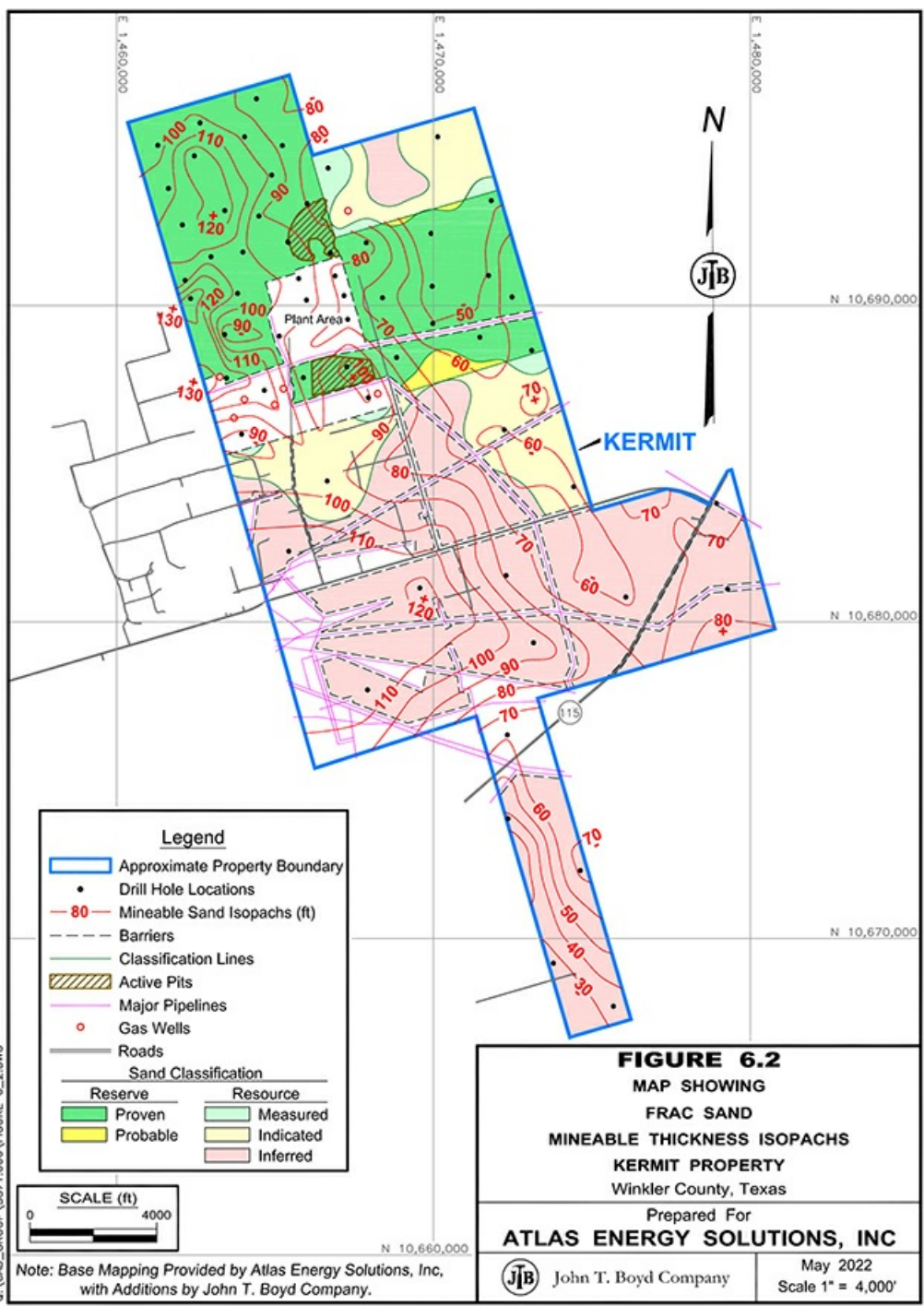
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2. A geologic model of each deposit was created in Carlson Software using industry-standard grid modeling methods well-suited for simple stratigraphic deposits. Each geologic model delineates the top and bottom of the mineable sand horizon and the distribution of the product size fractions across the deposits. The top and bottom of the mineable frac sand interval were established as follow:
 - a. As there is minimal overburden material across the subject properties, the top of the mineable sand interval was defined as the current ground surface, as provided by a combination of originally flown aerial topographic surveys and recently surveyed active mining pits.
 - b. The bottom of the mineable sand interval on both Atlas properties was determined by Westward geologists and geological technicians present during the various exploration and sampling campaigns. Westward defined the bottom of the mineable sand interval as the depth at which a drilled interval no longer contained sand as either the first or second most abundant material present.

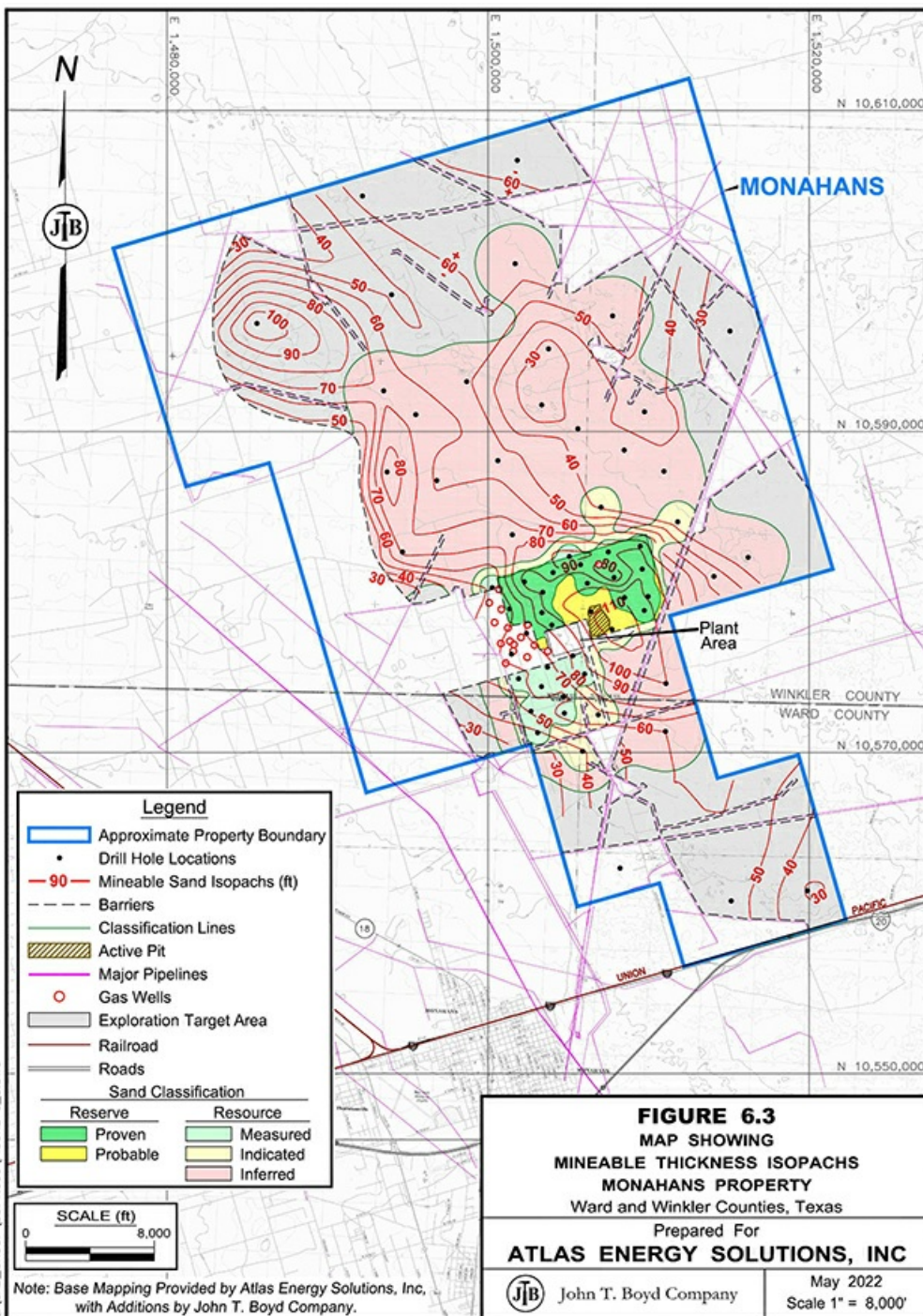
Overall mineable frac sand thicknesses based on the defined top and bottom noted above, are presented in Figures 6.2 and 6.3, for the Kermit and Monahans properties, respectively.

3. After reviewing the continuity and variability of the deposit, suitable resource classification criteria were developed and applied as per the discussion in Section 6.2.2.
4. BOYD then reviewed the proposed initial mining regions identified by Atlas management. Estimation of their in-place frac sand resources for the Kermit and Monahans properties assumes mining operations using a combination of standard surface excavation equipment for the near-surface initial operations and dredging equipment once initial excavation had reached appropriate depths. This sequence of operating is widely utilized for mining of similar deposit types. As such, the estimates were subject to the following setbacks and slope requirements:
 - a. 50 ft inside of property lines.
 - b. 100 ft from pipelines.
 - c. 50 ft around the wet and dry process plant areas and main access road/right of way.
 - d. An overall pit wall slope of 3:1 (approximately 19 degrees).
5. In-place volumes for each property were estimated from the geologic model within Carlson Software. A dry in-place, bulk density of 100 pounds per cubic foot was used to calculate the in-place tonnage of frac sand.

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G:\CAD_GROUP\3571.006\FIGURE_6_2.DWG



Q:\CAD_GROUP\3871.006\FIGURE 6_3.DWG

BOYD utilized the provided updated pit survey information for each of Atlas' subject properties to estimate in-place frac sand resources as of June 30, 2021, which were then updated using actual Q3 and Q4 2021 reported production data to determine frac sand resources for the Kermit and Monahans properties as of December 31, 2021.

6.2.2 Classification

Geologic assuredness is established by the availability of both structural (thickness and elevation) and quality (size fraction) information for the deposit. Resource classification is generally based on the concentration or spacing of exploration data which can be used to demonstrate the geologic continuity of the deposit. When material variations in thickness, depth, and/or sand quality occur between drill holes, the allowable spacing distance between drill holes is reduced. The following drill hole spacing criteria were established by the Qualified Person after review of the available exploration data and geologic models and used to classify the frac sand resources of the Kermit and Monahans mines:

Table 6.1: Kermit and Monahans Properties Drill Hole Spacing Parameters

<u>Classification</u>	<u>Spacing Requirement (ft)</u> <u>(Nominal Maximum)</u>
Measured	1,500
Indicated	2,500
Inferred	5,000

The Qualified Person has determined that all of the estimated frac sand resources within the Kermit and Monahans mine plan areas are classified as either Measured or Indicated Resources. However, due to the extensive size of each of the subject properties, additional reportable Inferred Resource areas, as well as Exploration Results areas also exist within each property boundary.

BOYD is of the opinion that there is a low degree of uncertainty associated with each of the resource classifications.

6.2.3 Frac Sand Exploration Results Areas

Due to the extensive acreage of land that Atlas has secured mineral rights to on the Monahans Property (approximately 32,224 "gross" acres in total), there are significant areas within this property that, while some exploration was performed, the distance between drill holes falls outside of the defined parameters noted in Section 6.2.2. These Exploration Results Areas are isolated to the outer-most portions of the Monahans Property; no Exploration Results Areas exist on the Kermit Property.

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Exploration Results Areas have less geologic confidence than Inferred Resources and are not quantifiable or reportable under the S-K 1300 guidelines. The intent of disclosing the acreage in Table 6.2 is generally to let the reader know that even beyond the extensive quantity of reportable resources and reserves, there is a high likelihood of additional sand available once additional exploration is complete. Exploration results from this portion of the deposit exhibits similar characteristics, both in thickness and frac sand quality to the resources and reserve areas. The following table presents a summary of characteristics of the Monahans Property Exploration Results Areas, based on drilling and sampling data completed to date.

Table 6.2: Exploration Results Area Deposit Characteristics, Monahans Property

Property	Acres	Total Drill Hole Count	Sand Thickness (ft)		
			Min	Max	Average
Monahans	9,575	8	13	115	58

6.2.4 Frac Sand Resource Estimate

Significant amounts of reportable frac sand resources, excluding those being converted to frac sand reserves within each property's mine plan area, exist for both the Kermit and Monahans properties. These quantities of reportable frac sand resources fall within the defined boundaries of the Kermit and Monahans properties and are not reported as frac sand reserves, however they are considered to be potentially material to each operation. Reportable resources must have demonstrated geoscientific information based on varying levels of drilling, sampling, and laboratory testing results. The quantities of frac sand resources are presented in the following table, as an estimate of In-Place Resources, contained in both the Kermit and Monahans properties.

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Table 6.3: In-Place Frac Sand Resources, Kermit and Monahans Operations

Resource Category	Acres	Average Sand Thick. (ft)	Estimated In-Place Frac Sand Tons (000)			
			Owned	Leased	Adverse	Total
Kermit Operation						
Measured	65		—	9,700	—	9,700
Indicated	603		—	95,300	—	95,390
Inferred	1,719		38,904	197,750	56,636	293,290
	2,387	79	38,904	302,840	56,636	398,380
Monahans Operation						
Measured	454			64,144	—	64,144
Indicated	809		—	108,726	—	108,726
Inferred	8,906		—	1,093,869	—	1,093,869
	10,169	60	—	1,266,739	—	1,266,739

6.2.5 Validation

BOYD independently estimated in-place Exploration Results Areas and Resources for the Kermit and Monahans operations based on the provided drilling, sampling, and testing data obtained by Atlas. Utilizing industry-standard grid modeling techniques we have estimated volumes of frac sand present on each property, as indicated by such data. Based on our review of Atlas' well-documented geologic exploration and sampling methods, we are of the opinion that the data provided are reasonable and appropriate. Furthermore, it is our opinion that the estimation methods employed are both appropriate and reasonable for the deposit type and proposed extraction methods.

6.3 Frac Sand Reserves

6.3.1 Methodology

Estimates of frac sand reserves for the Kermit and Monahans operations were derived contemporaneously with estimates of frac sand resources. To derive an estimate of saleable product tons (proven and probable frac sand reserves), the following modifying factors were applied to the in-place measured and indicated frac sand resources underlying the respective mine plan areas:

- A 95% mining recovery factor which assumes that 5% of the mineable(in-place) frac sand resource will not be recovered for various reasons. Applying this recovery factor to the in-place resource results in the estimated ROM sand tonnage that will be delivered to the wet process plant.

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- Overall processing recoveries, based on exploration sample gradation testing, are 80.9% for the Kermit Operation, and 87.6% for the Monahans Operation. These recovery factors account for removal of out-sized (i.e., larger than 40-mesh and smaller than 140-mesh) sand and losses in the wet processing plant, and minor dry processing plant inefficiencies.

The overall product yields (after mining and processing losses) for the Kermit and Monahans operations is estimated at 77% and 83%, respectively. That is, for every 100 tons of in-place frac sand resources mined, approximately 77 tons will be recovered and sold as product from the Kermit Operation, while approximately 83 tons will be recovered and sold as product from the Monahans Operation.

BOYD estimated reserves on the subject properties utilizing provided current mining pit depths as of June 30, 2021, together with third quarter 2021 actual production data. At the request of Atlas, BOYD applied projected mining for fourth quarter 2021, to arrive at an estimate of frac sand reserves for the Kermit and Monahans operations, as of December 31, 2021.

6.3.2 Classification

Proven and probable frac sand reserves are derived from measured and indicated frac sand resources, respectively, which have a life-of-mine projected mine plan developed in accordance with S-K 1300. BOYD is satisfied that the frac sand reserve classifications reflect the outcome of technical and economic studies. Figures 6.3 and 6.4 illustrate the reserve classifications of the Kermit and Monahans Operations, respectively.

6.3.3 Frac Sand Reserve Estimates

Atlas' estimated surface mineable frac sand reserves for the Kermit Operation totals approximately 198 million saleable product tons, as of December 31, 2021.

Estimated surface mineable frac sand reserves for Atlas' Monahans Operation total approximately 170 million saleable product tons, as of December 31, 2021.

A forecasted sales price of \$30.00 per ton sold was used for all products sold from the Kermit and Monahans operations (refer to Chapter 11, Sections 11.2.4.1 and 11.3.4.1 for additional information). The economic analyses performed on the Kermit and Monahans operations support the statement of frac sand reserves herein for the Kermit and Monahans operations (refer to Chapter 12 for additional information pertaining to the respective economic analyses).

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The following table presents the estimated Reserve tons by product (size), that are anticipated to be produced at Atlas' Kermit and Monahans Operations.

Table 6.4: Reserves as of December 31, 2021, Atlas' Kermit and Monahans Operations

Atlas Energy Solutions, Kermit and Monahans Reserves (As of December 31, 2021)									
Control	Tons (000) By Classification and Mesh Size						Total		
	Proven			Probable			By Mesh Size		
	40/70	70/140	Total	40/70	70/140	Total	40/70	70/140	Total
Kermit Operation									
Owned	78,955	61,217	140,172	—	—	—	78,955	61,217	140,172
Leased	28,580	24,433	53,013	2,599	2,232	4,831	31,179	26,665	57,844
Total	107,535	85,650	193,185	2,599	2,232	4,831	110,134	87,882	198,016
Monahans Operation									
Leased	71,886	46,739	118,625	32,041	19,057	51,098	103,927	65,796	169,723

The reported reserves include only frac sand which is reportedly leased or owned as of December 31, 2021.

Atlas owns approximately 140.2 million product tons on the Kermit Operation, or 71% of the current frac sand reserves for this operation, with the remainder held under lease agreements.

At the Monahans Operation, Atlas holds leases for all reported reserves.

The frac sand reserves contained in Atlas' Kermit and Monahans operations are well-explored and defined. It is our conclusion that over 97% of the stated reserves at the Kermit Operation, and nearly 70% of the stated reserves at the Monahans Operation, can be classified in the proven reliability category (the highest level of assurance) with the remainder classified as probable.

The estimated product distribution of the frac sand reserves is based on a combination of available laboratory gradation test data and actual production yields provided by Atlas. Grain size distribution and overall yields may vary based on the depth and location at which mining occurs.

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The subject operations, and other fracs and operations in the area, have a well-established history of mining and selling frac sand products into the local Permian Basin energy fields. BOYD has assessed that sufficient studies have been undertaken to enable the frac sand resources to be converted to frac sand reserves based on current and proposed operating methods and practices. Changes in the factors and assumptions employed in these studies may materially affect the frac sand reserve estimate.

The extent to which the frac sand reserves may be affected by any known geological, operational, environmental, permitting, legal, title, variation, socio-economic, marketing, political, or other relevant issues has been reviewed as warranted. It is the opinion of BOYD that Atlas has appropriately mitigated, or has the operational acumen to mitigate, the risks associated with these factors. BOYD is not aware of any additional risks that could materially affect the development of the frac sand reserves.

Based on our independent estimate and operations review, we have a high degree of confidence that the estimates shown in this report accurately represent the available frac sand reserves controlled by Atlas, as of December 31, 2021.

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7.0 MINING OPERATIONS

7.1 Mining Method

The Kermit and the Monahans mines both employ dredging as the primary sand extraction method. Most of the mineable area at both locations has minimal overburden and vegetation; as such, sand excavation normally begins at the surface throughout most of the mine plan area. Traditional excavator/truck dry mining methods are used as a backup to dredge mining. A general flow diagram of the dredging operation is illustrated in Figure 7.1. The dry mining method is typically employed on the higher areas at the surface of the deposit where removal by dredging is difficult. The water forming the dredge ponds is sourced from a shallow aquifer which lies below each property. Both properties utilize a common suction dredge. The dredge is a floating barge that lowers an arm or "ladder" with an attached submersible pump to the bottom of the deposit. Sand is pumped through poly pipe to the mine skid where material greater than 1.5mm in size is removed. The sand is then further pumped to the wet plant with tailings and excess water returning to the dredge pit.

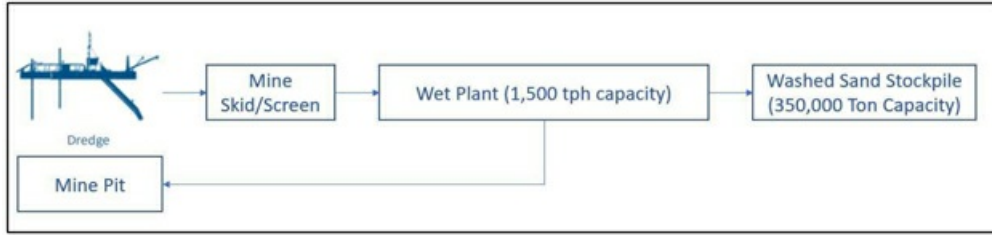


Figure 7.1: Simple Mining Flow Diagram

7.2 Mine Schedule, Equipment, and Staffing

Both mine sites operate continuously the entire year.

Between the two mine sites and the remote operations and loadout functions performed in Austin, there are 113 employees as of the effective date of this report.

Although the two dredges are the primary means of mining the deposit, additional support equipment is needed for various functions throughout the mine and plant. The primary mobile equipment involved in the sand excavation, processing, and loading (other than the dredges) includes excavators, dozers, front-end loaders, skid steers, telehandlers, water trucks, personnel lifts, motor graders, sweepers and vac trailers.

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Various fuel tanks, lube tanks, and other storage tanks are also located throughout each of the operations.

7.3 Mine Historical and Forecast Production

7.3.1 Historical Mine Production

Atlas produces predominantly 40/70-mesh and 100-mesh (70/140-mesh) frac sand products for sale into the Permian Basin. All of the products are trucked to their final destination.

The sand is mined, processed, stored, and shipped from both of the facilities by highway truck. Production from the operations commenced in July 2018 at Kermit and October 2018 at Monahans. Historic production for years 2020 and 2021 is presented in Table 7.1 below:

Table 7.1: Historic Frac Sand Production (ROM '000)

	<u>Year 2020</u>	<u>Year 2021</u>
Kermit	3,496	4,862
Monahans	3,805	4,418

7.3.2 Forecasted Production

Forecasted ROM sand production is estimated as follows:

Table 7.2: Forecasted ROM Production Tons

ROM tons (000)	<u>Year 2022</u>	<u>Year 2023</u>	<u>Year 2024</u>	<u>Year 2025</u>	<u>Year 2026</u>
Kermit	5,972	5,972	5,972	5,972	5,972
Monahans	5,630	5,630	5,630	5,630	5,630

7.4 Mine Plan (Life-of-Mine)

7.4.1 Kermit

As of December 31, 2021, the reserve estimate for the Kermit site is estimated at 198,016,000 tons. Atlas has developed a long range mine plan, as illustrated in Figure 7.2, for the extraction of these reserves. The plan utilizes the following assumptions:

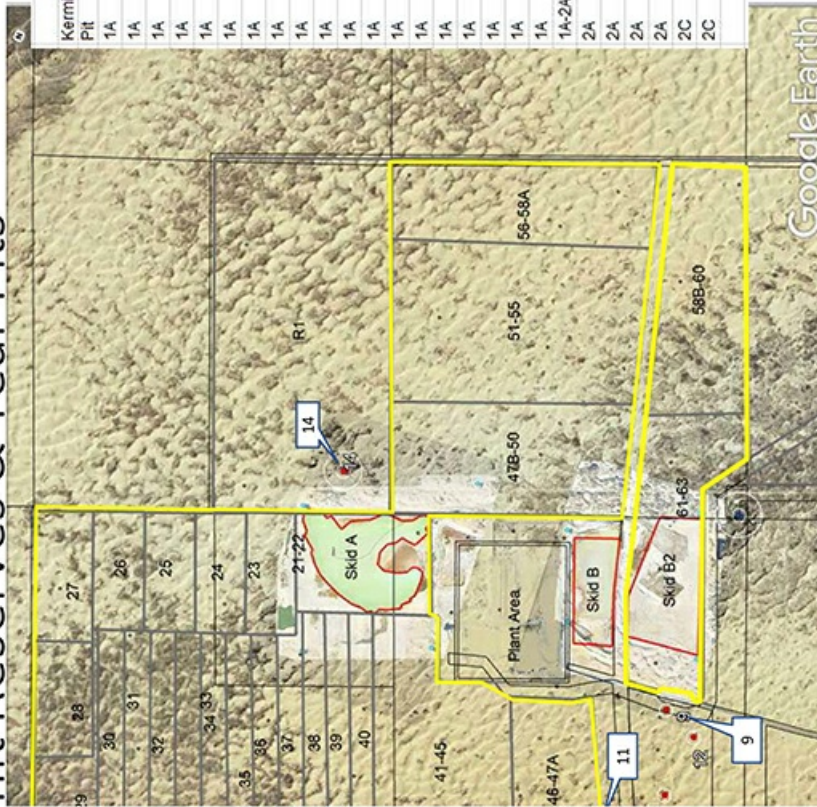
- Dredge depth ranging from 78 ft to 104 ft below land surface.
- Pumping approximately 6.1 to 6.3 million ROM tons per year.
- Mine life of currently planned reserve of approximately 41 years to 2063.
- Additional controlled Resource property not outlined in current mine plan.

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Figure 7.2

Note: Wells #9, #11, #14 are all P&A.
 100ft surface buffers (smaller white) for these WH's are outside of reserve
 Estimates inc 3:1 pit slopes (larger white circles)

Kermit Reserves & Year Pits



Kermit Pit	Reserves Year	Acres	K tons/acre	Edge Loss In Place K Tons	% Recovery		K Tons	K Tons		
					ROM	Wet PI				
1A	21-22	68.7	226	7,057	8,469	8,046	€	€		
1A	23	31	226	547.5	6,459	6,136	€	€		
1A	24	31	226	562.5	6,444	6,121	€	€		
1A	25	31	226	555.0	6,451	6,128	€	€		
1A	26	31	226	577.5	6,429	6,107	€	€		
1A	27	38.5	226	2,085.0	6,616	6,285	€	€		
1A	28	34.2	226	1,312.5	6,417	6,096	€	€		
1A	29	36.4	226	1,845.0	6,381	6,062	€	€		
1A	30	30.6	226	292.5	6,623	6,292	€	€		
1A	31	30	226	292.5	6,488	6,163	€	€		
1A	32	29.8	226	300.0	6,435	6,113	€	€		
1A	33	29.9	226	285.0	6,472	6,149	€	€		
1A	34	30.2	226	281.3	6,544	6,217	€	€		
1A	35	29.9	226	300.0	6,457	6,135	€	€		
1A	36	29.7	226	300.0	6,412	6,092	€	€		
1A	37	29.6	226	262.5	6,427	6,106	€	€		
1A	38	29.7	226	262.5	6,450	6,127	€	€		
1A	39	29.7	226	277.5	6,435	6,113	€	€		
1A	40	29.6	226	247.5	6,442	6,120	€	€		
1A-2A	41-45	149	226	1,912.1	31,762	30,174	2€	2€		
2A	46-47A	72.5	169.7	2,380.8	9,922	9,426	7	7		
2A	47B-50	136	169.7	2,184.0	20,895	19,850	1€	1€		
2A	51-55	204	169.7	2,409.6	32,209	30,599	2€	2€		
2A	56-58A	113	169.7	2,544.0	16,632	15,800	1€	1€		
2C	58B-60	112	173.9	4,008.0	15,469	14,695	1€	1€		
2C	61-63	113	173.9	7,121.3	12,529	11,903	5	5		
Total								264,269	251,055	21€

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7.4.2 Monahans

As of December 31, 2021, the reserve estimate for the Monahans site is estimated at 169,723,000 tons. The current mine plan is illustrated in Figure 7.3.

- Dredge depth ranging from 67 ft to 91 ft below land surface.
- Pumping approximately 5.8 million ROM tons per year.
- Mine life of currently planned reserve of approximately 28 years to 2050.
- Approximately six years (2050 to 2056) of additional Reserve available not shown on plan.
Additional controlled Resource property not outlined in current mine plan.

7.4.3 Mining Risk

Surface mines face two primary types of operational risks. The first category of risk includes those daily variations in physical mining conditions, mechanical failures, and operational activities that can temporarily disrupt production activities. Several examples are as follows:

- Process water spot shortages.
- Power curtailments.
- Variations in grain size consistency.
- Encountering excessive clay and other waste material.
- Failures or breakdowns of operating equipment and supporting infrastructure.
- Adverse weather disruptions (power outages, dust storms, excessive heat etc.)

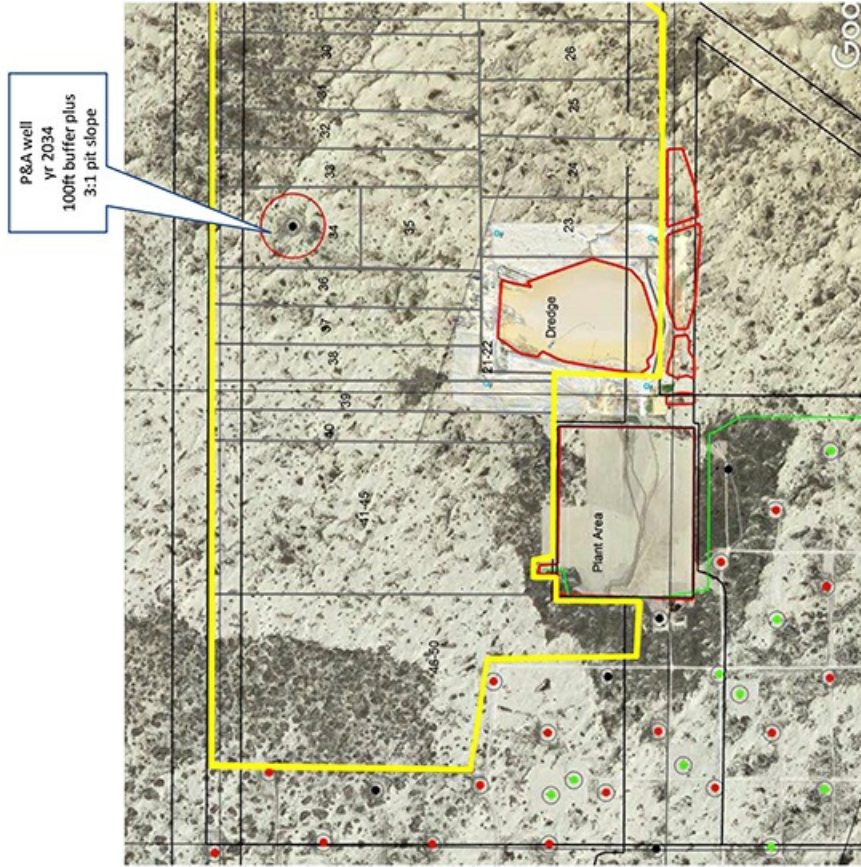
The above conditions/circumstances can adversely affect production on any given day but are not regarded as “risk issues” relative to the long-term operation of a mining entity. Instead, these are considered “nuisance items” that, while undesirable, are encountered on a periodic basis at many mining operations. BOYD does not regard the issues listed above as being material to both mining operations or otherwise compromising its forecasted performance.

The second type of risk is categorized as “event risk.” Items in this category are rare, but significant occurrences that are confined to an individual mine, and ultimately have a pronounced impact on production activities and corresponding financial outcomes. Examples of event risks are major fires or extreme droughts, floods, or unforeseen geological anomalies that disrupt extensive areas of proposed or operating mine workings and require alterations of mining plans. Such an event can result in the cessation of production activities for an undefined but extended period (measured in months, and perhaps years) and/or result in the sterilization of frac sand reserves. This type of risk is minimal in a relatively simple surface sand mining operation.

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Figure 7.3

inahans Reserves



Acres	K tons/acr	% Recovery		95.0%		98.0%	
		Edge Lost/In Place	ROM	Wet Plant	Final K Tons	Wet Plant	Dry Plant
	K Tons	K Tons	K Tons	K Tons	K Tons	K Tons	K Tons
22	64.5	197.5	4,337	8,401	7,981	7,024	6,883
23	33.5	197.5	456	6,161	5,853	5,150	5,047
24	33.9	197.5	419	6,276	5,962	5,247	5,142
25	33.2	197.5	425	6,132	5,825	5,126	5,024
26	33.3	197.5	401	6,176	5,867	5,163	5,060
27	38	197.5	1,640	6,062	5,759	5,068	4,967
28	36.2	197.5	1,027	6,123	5,817	5,119	5,016
29	38.6	197.5	1,397	6,226	5,915	5,205	5,101
30	31.9	197.5	207	6,094	5,789	5,094	4,992
31	32.8	197.5	273	6,205	5,894	5,187	5,083
32	32.4	197.5	267	6,132	5,825	5,126	5,024
33	32.4	197.5	286	6,113	5,808	5,111	5,009
34	38.1	197.5	1,426	6,099	5,794	5,099	4,997
35	31	197.5	-	6,123	5,816	5,118	5,016
36	32.5	197.5	261	6,158	5,850	5,148	5,045
37	32.5	197.5	279	6,139	5,832	5,132	5,030
38	32.7	197.5	322	6,136	5,829	5,130	5,027
39	32.7	197.5	401	6,057	5,754	5,064	4,963
40	33.1	197.5	437	6,100	5,795	5,099	4,997
45	165	197.5	2,163	30,425	28,904	25,435	24,926
50	181	197.5	6,105	29,642	28,160	24,781	24,285
			Total	178,979	170,030	149,627	146,634
Well Type		% Recovery		95.0%		98.0%	
K tons/acr	K Tons	Edge Lost/In Place	ROM	Wet Plant	Final K Tons	Wet Plant	Dry Plant
		K Tons	K Tons	K Tons	K Tons	K Tons	K Tons
11	866.6	(867)	(823)	(724)	(710)		

8.0 PROCESSING OPERATIONS

8.1 Overview

The two process plants were constructed internally by Atlas with work directed and supervised by experienced project managers having frac sand plant process and erection experience. Each plant has a nominal capacity of approximately 5.5 Mtpy of finished product. The Kermit Plant was commissioned in July 2018 and the Monahans Plant was commissioned on October 31, 2018. The predominant frac sand products produced at the operations include 40/70-mesh and 40/140-mesh products. The Kermit process plant, both wet and dry, has an overall process yield of approximately 81%. For every 100 tons ton of ROM dredged material fed into the wet plant, approximately 81 tons of finished product is produced. Similarly, the Monahans process plant has an approximate process yield of 88%. The estimated process yields reported are the average laboratory yield from the drill hole samples representative of entire property. Actual reported operating yields may be higher or lower based on the location and depth of mining. Current reported process yields are estimated at approximately 90%.

Both process operations are similar and consist of the following activities:

- Wet Process Plant- ROM material from the dredge is pumped to the wet plant and the greater than 40-mesh and less than 140-mesh sand and silt material is removed.
- Dry Process Plant- The wet 40/140-mesh material produced by the wet process plant is dried and screened into finished products.
- Storage and Loadout- Finished products are stored in silos and gravity loaded from under the silos into highway trucks for transport to the customer. The Atlas loadout operates 24 hours per day, 7 days per week every day of the year.

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A general layout of both operations is illustrated in Figure 8.1:

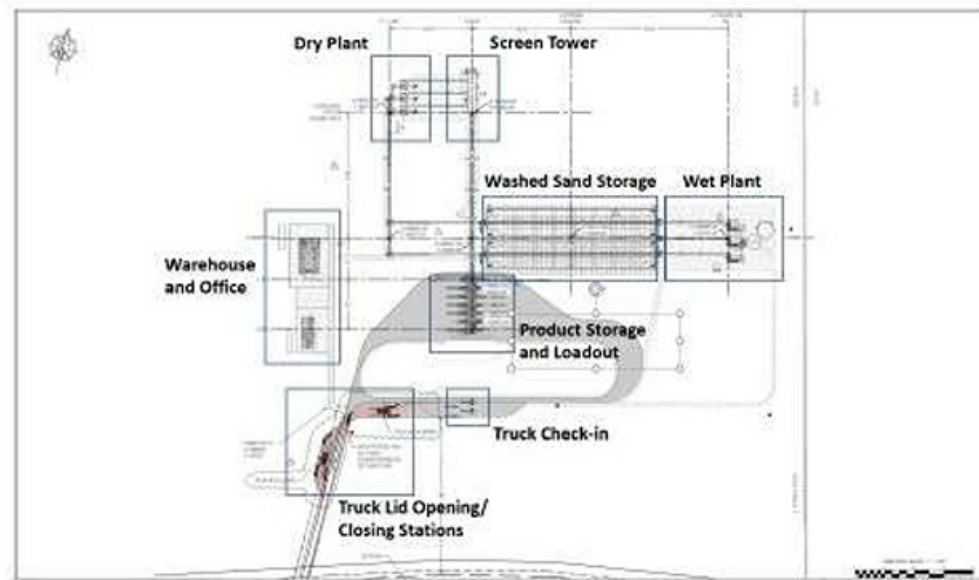


Figure 8.1: General Arrangement Layout of Plant

8.2 Wet Process Plant

The wet process plant does not crush the material, but predominantly washes and classifies (i.e., sizes) the sand. The resultant 40/140-mesh material is stockpiled as a feed for the dry plant. Sand is pumped from the dredge pit to the wet plant where it is dewatered and deslimed. Material is then liberated of clays and other deleterious material from the sand grains. Rinse water is added and then removed carrying away any contamination and the water is recycled. The closed loop process water circuit should allow for efficient use of water as the majority is collected and recycled in the process. Water conservation is a high priority at the operation. Washed sand is stored in two large, washed sand stockpiles where it naturally decants in preparation for dry processing.

8.3 Dry Process Plant

The dry process utilizes three dryers operating in parallel to complete the drying process. The dryers are fueled by line natural gas. After drying, the sand is conveyed to the screen tower where multi-deck screeners remove oversized material as well as segregate the 40/70-mesh and 40/140-mesh products.

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An on-site quality laboratory samples and monitors production and shipping sand quality daily.

8.4 Product Storage/Truck Loadout

The Atlas loadout operates 24 hours per day, 7 days per week every day of the year. Both of the facilities have seven under silo product loadouts with truck scales. Figures 8.3 and 8.4 illustrate the overall layout of each plant including the truck under silo product loadouts. All of the frac sand products are trucked to the well site from the facilities.



Figure 8.3: Kermit Plant with Truck Loadouts



Figure 8.4: Monahans Plant with Truck Loadouts

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9.0 MINE INFRASTRUCTURE

On-site facilities at each site include a scale house, office, shop, and a quality laboratory located in the dry process plant. The surface facilities currently located at the mine are well constructed and have the necessary capacity/capabilities to support both of the operations. Operational preference may constitute the upgrading of some existing facilities if the operation expands in the future.

9.1 Utilities (Power and Natural Gas)

Each plant is supplied three-phase line power. Substations access 138 kV line and step voltage down to a 12.5 kV line which delivers power to the plants. Line natural gas is supplied to both plants. Natural gas line capacity and substation capacity at both plants is sufficient to serve much more than 100% of Atlas's current requirements.

9.2 Process Water

Plant process water is recycled within the plants and is pumped from the dredge pond reservoir. Additional makeup water is obtained from wellfields near the plants. The wells are only utilized as a backup water supply.

10.0 MARKET ANALYSIS

The Permian Basin's (Permian) frac sand market is driven by unconventional horizontal drilling in the oil and gas industry. In the late 1990s, rapid advances in horizontal drilling and hydraulic fracturing (fracking) in North America ushered in large-scale commercial oil and gas production. This fracking technique has been increasingly successful and modified over time to extract oil and gas held in dense layers of shale rocks, whose low permeability had previously prevented the flow of hydrocarbons.

Hydraulic fracturing uses a mixture of water, chemicals, and proppant (natural sand or man-made sand-like substances) to fracture shale rock and release hydrocarbons such as oil, natural gas, and natural gas liquids. The proppant acts to keep the fractures open (prop) while the pressurized fluids flow back up the well piping. Wells have become more productive with the addition of horizontal drilling capabilities, longer lateral lengths, and multi-stage fracks.

North America's shale oil industry's growing competitiveness gained through continuous technology improvement and falling production costs have had major implications on the global energy market. Oilfield service companies, including frac sand producers, made significant cuts in 2020 to survive lower commodity prices because of the COVID-19 pandemic. Figure 10.1 illustrates the CME Group's West Texas Intermediate (WTI) Crude Oil Annual Average Futures Price. We estimate breakeven pricing for unconventional oil wells in the Permian to be in the \$30 to \$40 per barrel range, with some areas in the mid \$20s per barrel. 2021 WTI futures pricing showed a strong recovery following the 2020 COVID-19 impact.

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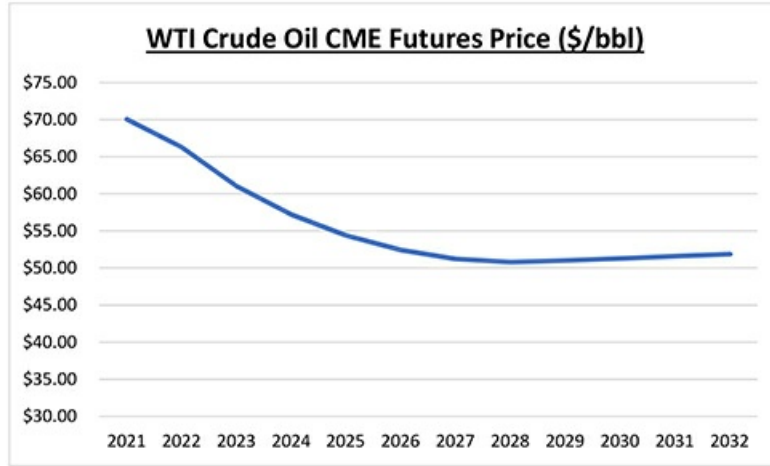


Figure 10.1: WTI Crude Oil CME Futures Price

Permit submissions for horizontal oil and gas wells in the Permian indicate a continuation of strong drilling ahead. According to industry analysts, the number of permits filed per working rig this summer is tracking at multi-year highs as evidenced in Figure 10.2 below.

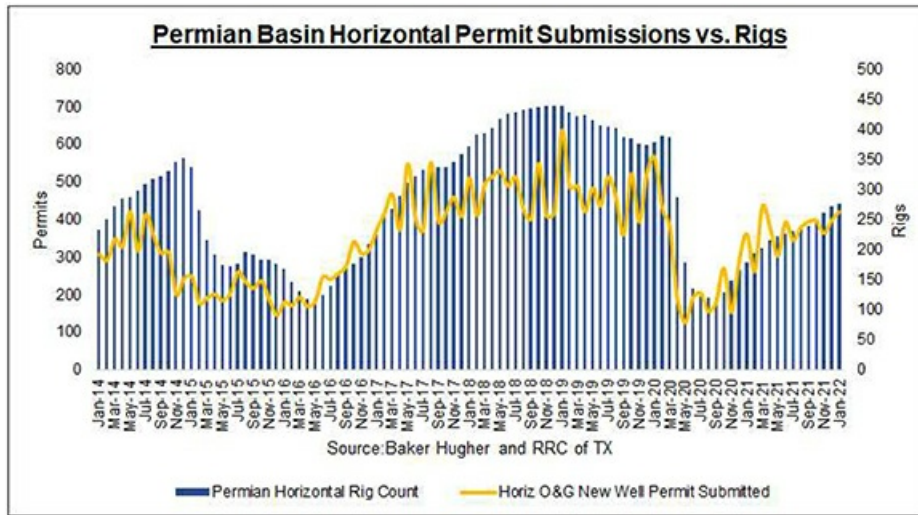


Figure 10.2: Permian Basin HZ Permit Submissions vs. Rigs

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Over the previous 52 weeks, rig counts in the Permian are up approximately 111%. This has led to increased production for both crude oil and natural gas. For the same time period, crude oil (barrels per day) and natural gas production (thousand cubic feet per day) in the Permian are up 10% and 9%, respectively. As Figure 10.3 illustrates, Permian daily crude oil production is nearing its pre-pandemic impacted peak, while daily natural gas production in the Permian continues to make new records and now stands at 18.6 billion cubic feet per day.

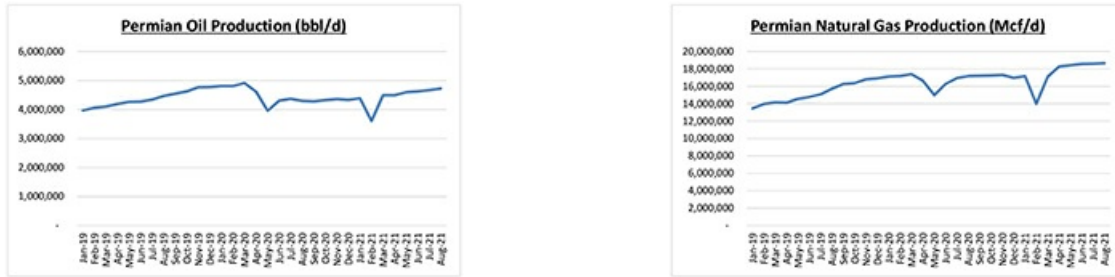


Figure 10.3: Permian Oil Production and Natural Gas Production

The U.S. Energy Information Administration Drilling Productivity Report reports that the inventory of drilled but uncompleted wells (DUCs) in the Permian Basin have declined 43% since peaking in July 2020 (refer to Figure 10.4). This data dovetails with increased crude oil and natural gas production in the basin.

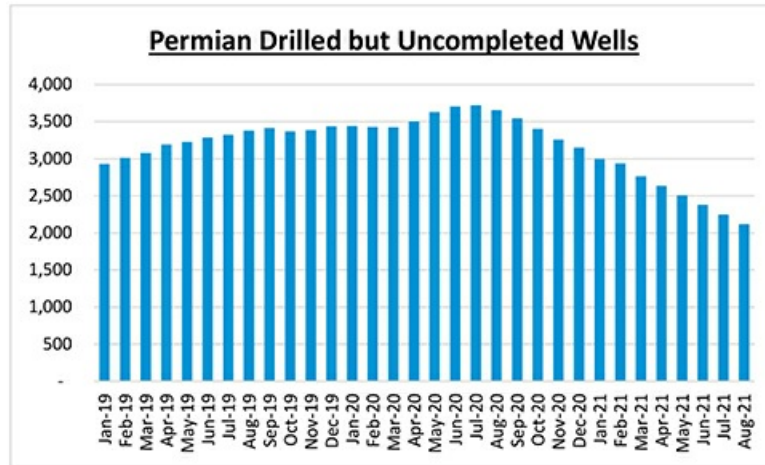


Figure 10.4: Permian Drilled but Uncompleted Wells

Consequently, with increases in production and well completions, activity at frac sand mines in the Permian Basin have increased. According to MSHA, operating hours for the second quarter of 2021 for Permian Basin frac sand mines were up 20% sequentially. In fact, only two mines saw a material decrease in hours from Q1 2021 to Q2 2021 while several had increases of more than 80% sequentially.

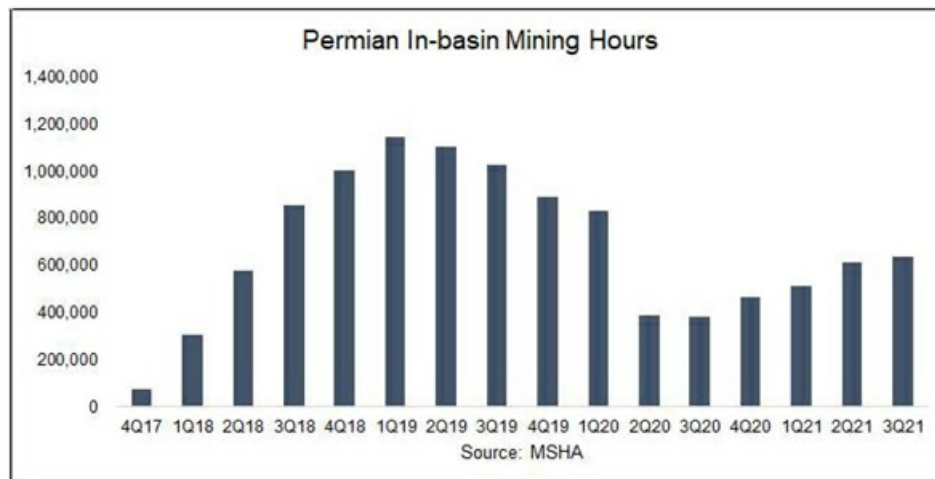


Figure 10.5: Permian Wide In-Basin Mine Hours (Quarterly)

Industry research posits that all but one frac sand mine in the Permian Basin is fully operational. However, total in-basin mine hours are still about 45% below peak. Mine hours serve as a directional indicator which dovetails with previous crude oil and natural gas production and DUC data. Current frac sand production in the Permian Basin is estimated to be nearing its prior peak production of about 70 million tons per year leading to stable pricing in the basin. BOYD anticipates stable frac sand pricing with a slight upside bias due to potential supply chain disruptions and high commodity input costs.

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11.0 CAPITAL, REVENUES, AND OPERATING COSTS

11.1 Introduction

This chapter will contain two main sections, one for the Kermit operation and one for the Monahans operation. Each section will address similar topics in their respective subsections.

Atlas commenced processing operations at the Kermit Operation in July 2018 and at the Monahans Operation in October 2018. Atlas provided BOYD with financial data for the years 2020 and 2021.

BOYD reminds the reader of this document of the significant effect the COVID-19 pandemic had on drilling and fracking activities in the Permian Basin and the oil & gas industry in 2020. As such, the reader should consider this point when reviewing Year 2020.

11.2 Kermit Operation

11.2.1 Historical Capital Expenditures

Table 11.1 presents Kermit's annual CapEx for years 2020 and 2021 and is based on fixed asset data provided by Atlas.

CapEx (\$000)	
Year 2020	1,297
Year 2021*	4,820
Total	6,117

* Includes Construction in Progress (CIP)

11.2.2 Historical Revenues and Sales

Table 11.2 presents Atlas' historical sales data for years 2020 and 2021. Prices have improved in Year 2021 from the low prices experienced in Year 2020. Atlas' Year 2021 sales were 4.2 million tons, a 31% increase from Year 2020, which was impacted by the COVID-19 pandemic.

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Table 11.2: Kermit Historical Sales Data

	Year 2020	Year 2021
Tons sold (000)	3,208	4,204
Revenues (\$000)	38,728	73,836
Product Pricing (\$ per ton sold)	12.07	17.56

11.2.3 Historical Cost of Production

Table 11.3 presents Kermit's historical Cash Cost of Production for years 2020 and 2021.

Table 11.3: Kermit Historical Cost of Production

	Year 2020	Year 2021
Cash Cost of Production (\$ 000)	23,032	28,942
\$ per ton sold	7.18	6.88

Cost of Production represents the costs incurred in the association with the mining, wet processing, dry processing, product loadout, maintenance, quality control, property taxes, and other related operating costs, and includes royalty expense (as discussed in Chapter 3, section 3.3).

11.2.4 Projected Production, Sales, and Costs

BOYD was provided production, sales, and cost projections for the Kermit Operation. Forecasted financial data, product pricing, and costs are in 2021 constant dollars. BOYD opines that the production and financial projections are reasonable and are likely to be within $\pm 20\%$ accuracy level.

11.2.4.1 Production and Sales Projections

Annual forecasted ROM production of approximately 6.0 Mtpy is based on the dry plant producing 4.9 Mtpy of saleable product after a processing (wet and dry processing plant) loss of approximately 18%, as discussed in Chapter 6. Forecasted dry processing plant production is within the operation's current infrastructure capacities and capabilities.

As noted in Table 11.4, the dry processing plant is projected to product approximately 4.9 Mtpy of saleable product consisting of 40/70-mesh and 40/140-mesh products, as discussed in Chapter 6.

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The forecasted sales price of \$30 per ton sold, for all products, presented in Table 11.4 is based on average product prices for the first two months of 2022, as provided by Atlas, and reflects a significant rebound from years 2020 and 2021 prices. We opine that this is a reasonable price projection.

Table 11.4: Kermit Sales Projections

	Year 2022	Year 2023	Year 2024	Year 2025	Year 2026
Tons Sold (000)	4,900	4,900	4,900	4,900	4,900
Revenues (\$000)	147,000	147,000	147,000	147,000	147,000
Product Pricing (\$ per ton sold)	30.00	30.00	30.00	30.00	30.00

11.2.4.2 Operating Cost Projections

Table 11.5 below, presents the cash cost projections for the period 2022 through 2026. Operating cost projections were provided by Atlas and are based on prior year and current year actuals. BOYD considered their estimates to be reasonable. However, adjustments were made based on our review of historical operating costs as well other information and our experience with such operations.

Table 11.5: Kermit Annual Cash Cost of Production Projections

	Summary Cash Cost of Production (\$000)				
	Year 2022	Year 2023	Year 2024	Year 2025	Year 2026
Operating Costs with Royalty	33,524	32,250	31,956	31,956	31,956
Final Reclamation Escrow	111	111	111	111	111
Total Cash Cost of Production	33,636	32,362	32,068	32,068	32,068
\$ per ton sold	6.86	6.60	6.54	6.54	6.54

11.2.4.3 Projected Capital Expenditures

Atlas projected sustaining CapEx, which includes maintenance of production equipment as well as other items, to be \$2 million per year. The projected annual CapEx is a reasonable estimate.

11.3 Monahans Operation

11.3.1 Historical Capital Expenditures

Table 11.6 presents Monahan's CapEx for years 2020 and 2021 and is based on fixed asset data provided by Atlas.

Table 11.6: Monahans Historical Capital Expenditures

CapEx (\$000)	
Year 2020	949
Year 2021*	4,646
Total	5,596

* Includes Construction in Progress (CIP)

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11.3.2 Historical Revenues and Sales

Table 11.7 presents Monahans' historical sales data for years 2020 and 2021. Year 2021 prices have improved from the low prices experienced in Year 2020. Atlas' Year 2021 sales were approximately 4.1 million tons, a 30% increase from Year 2020, which was impacted by the COVID-19 pandemic.

Table 11.7: Monahans Historical Sales Data

	Year 2020	Year 2021
Tons sold (000)	3,160	4,093
Revenues (\$000)	41,213	68,631
Product Pricing (\$ per ton sold)	13.04	16.77

11.3.3 Historical Operating Costs

Table 11.8 presents Monahans' historical Cash Cost of Production data for years 2020 and 2021.

Table 11.8: Monahans Historical Cost of Production

	Year 2020	Year 2021
Cash Cost of Production (\$ 000)	23,126	28,533
\$ per ton sold	7.32	6.97

Cost of Production represents the costs incurred in the association with the mining, wet processing, dry processing, product loadout, maintenance, quality control, property taxes, and other related operating costs, and includes royalty expense (as discussed in Chapter 3, section 3.3).

11.3.4 Projected Production, Sales, and Costs

BOYD was provided production, sales, and cost projections for the Monahans Operation. Forecasted financial data, product pricing, and costs are in 2021 constant dollars. BOYD opines that the production and financial projections are reasonable and are likely to be within $\pm 20\%$ accuracy level.

11.3.4.1 Production and Sales Projections

Annual forecasted ROM production of approximately 5.6 Mtpy is based on the dry plant producing 4.9 Mtpy of saleable product after a processing (wet and dry processing plant) loss of approximately 13%, as discussed in Chapter 6. Forecasted dry processing plant production is within the operation's current infrastructure capacities and capabilities.

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As noted in Table 11.9, the dry processing plant is projected to produce approximately 4.9 Mtpy of saleable product consisting of 40/70-mesh and 40/140-mesh products, as discussed in Chapter 6.

The forecasted sales price of \$30 per ton sold, for all products, presented in Table 11.9 is based on average product prices for the first two months of 2022, as provided by Atlas, and reflects a significant rebound from years 2020 and 2021 prices. We opine that this is reasonable average price.

Table 11.9: Monahans Sales Projections

	Year 2022	Year 2023	Year 2024	Year 2025	Year 2026
Tons Sold (000)	4,900	4,900	4,900	4,900	4,900
Revenues (\$000)	147,000	147,000	147,000	147,000	147,000
Product Pricing (\$ per ton sold)	30.00	30.00	30.00	30.00	30.00

11.3.4.2 Operating Cost Projections

Table 11.10 below, presents the cash cost projections for the period 2022 through 2026. Operating cost projections were provided by Atlas and are based on prior year and current year actuals. BOYD considered their estimates to be reasonable. However, adjustments were made based on our review of historical operating costs as well other information and our experience with such operations.

Table 11.10: Monahans Annual Cash Cost of Production Projections

	Summary Cash Cost of Production (\$000)				
	Year 2022	Year 2023	Year 2024	Year 2025	Year 2026
Operating Costs with Royalty	33,396	32,171	31,877	31,877	31,877
Final Reclamation Escrow	130	130	130	130	130
Total Cash Cost of Production	33,526	32,301	32,007	32,007	32,007
\$ per ton sold	6.85	6.60	6.54	6.54	6.54

11.3.4.3 Projected Capital Expenditures

Atlas projected sustaining CapEx, which includes maintenance of production equipment as well as other items, to be \$2 million per year. The projected annual CapEx is a reasonable estimate.

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12.0 ECONOMIC ANALYSIS

12.1 Introduction

This chapter will contain two main sections, one for the Kermit Operation and one for the Monahans Operation. Each section will address similar topics in their respective subsections.

Cash flow projections for the Kermit and Monahans operations have been generated from their respective proposed LOM production schedules and revenues, cost of production (COP), and CapEx estimates discussed in Chapter 11. A summary of the key assumptions used is provided below.

- LOM ROM frac sand tons and product tons sold were based on the respective total frac sand reserve estimates discussed in Chapter 6 of this report. The Kermit Operation is estimated to be depleted in Year 2062 and the Monahans Operation is estimated to be depleted in Year 2056.
- Forecasted revenues at the respective on-site loadouts (mine gate) are based on sales of both 40/70 and 40/140-mesh size products to be delivered by truck to various sites in the Permian Basin.
- Projected Operating Costs and Other Costs (as discussed in Chapter 11) include:
 - Employee wages, benefits, and other employee expenses.
 - Contract mining.
 - Maintenance.
 - Mobile Equipment and Fuel.
 - Utilities (including dryer fuel) and Waste Disposal.
 - Other Operating Expenses (includes Property Taxes).
 - Royalty.
- Reclamation costs include:
 - Final reclamation cost to reclaim each respective site.
- Capital Expenditures (as discussed in Chapter 11) include:
 - Sustaining/Maintenance.

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- Taxes are based on:
 - Federal Business Income Tax Rate of 21%.
 - State Franchise (Margin) Tax Rate of 0.75% applied to the margin (total revenues less cost of goods sold).
- Adjustments used to determine After-Tax cash flows:
 - Current fixed assets, by asset class, are depreciated based on their respective Year 2021 average monthly expense.
 - Depreciation expense for new fixed assets (from sustaining/maintenance CapEx) are based on a straight-line depreciation calculation using a 10-year asset life.
 - Operating losses, if any, are carried forward in the tax computation.

12.2 Kermit Operation

12.2.1 Economic Analysis

BOYD prepared an economic analysis, as of January 1, 2022, for the Kermit Operation using the production, sales, and financial projections presented in this report. Our analysis confirms that the operation generates positive cash flows (based on a 10% discount rate), on a pre-tax and after-tax basis, that supports the statement of frac sand reserves herein.

12.2.2 Cash Flow Analysis

Table 12.1 below presents the pre-tax and after-tax cash flow projections based on the proposed LOM production schedule and revenue, cost of production, and CapEx estimates discussed above for the Kermit operation.

Table 12.1: Summary Cash Flow Statement

	Summary Cash Flow Statement (\$ 000)					Total
	2022 to 2031	2032 to 2041	2042 to 2051	2052 to 2061	2062 to 2062	
Total Tons Sold (000)	49,000	49,000	49,000	49,000	2,016	198,016
Revenues	1,470,000	1,470,000	1,470,000	1,470,000	60,480	5,940,480
Cost of Production	322,538	323,126	325,576	327,277	17,920	1,316,436
CapEx	20,000	20,000	20,000	19,000	—	79,000
Net Pre-Tax Cash Flow	1,127,462	1,126,874	1,124,424	1,123,723	42,560	4,545,044
Federal Income and State Franchise Taxes	227,676	234,419	236,866	237,130	8,373	944,464
Net After-Tax Cash Flow	899,786	892,455	887,558	886,593	34,187	3,600,579

Three DCF-NPVs on a pre-tax basis and three DCF-NPVs on an after-tax basis, using discount rates of 8%, 10%, and 12%, were calculated utilizing the cash flows above. The DCF-NPV values used mid-year discounting and all cash flows were on a constant dollar basis.

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The pre-tax DCF-NPVs range from approximately \$983 million to \$1,398 million, and the after-tax DCF-NPVs range from approximately \$783 million to \$1,112 million. Table 12.2 summarizes the results of the pre-tax and after-tax analyses:

	DCF-NPV (\$ millions)		
	8%	10%	12%
Pre-Tax	1,398	1,156	983
After-Tax	1,112	920	783

Refer to Table 12.3 for the detailed LOM cash flow analysis and corresponding pre-tax and after-tax DCF-NPV analyses at a 10% discount rate.

BOYD notes that the DCF-NPV estimate was made for purposes of confirming the economic viability of the reported frac sand reserves and not for purposes of valuing Atlas, the Kermit Operation, or its assets. IRR and project payback were not calculated, as there

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TABLE 12.3
PRE-TAX AND AFTER-TAX CASH FLOW ANALYSIS
AES - KERMIT OPERATION
Winkler County, Texas
Prepared For
ATLAS ENERGY SOLUTIONS, INC

By
John T. Boyd Company
Mining and Geological Consultants
May 2022

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032 to 2041	2042 to 2051	2052 to 2061	2062 to 2062	Total
Production/Processing															
Statistics (Tons 000):															
ROM Production	5,972	5,972	5,972	5,972	5,972	5,972	5,972	5,972	5,972	5,972	59,718	59,718	59,718	2,459	241,333
Overall Processing Recovery (%)	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.0	82.1
Dry Plant Product	4,900	4,900	4,900	4,900	4,900	4,900	4,900	4,900	4,900	4,900	49,000	49,000	49,000	2,016	198,016
Sales and Financial															
Data:															
Saleable Product Tons Sold (000)	4,900	4,900	4,900	4,900	4,900	4,900	4,900	4,900	4,900	4,900	49,000	49,000	49,000	2,016	198,016
Product Pricing (\$ per ton)	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Revenues (\$ 000)	147,000	147,000	147,000	147,000	147,000	147,000	147,000	147,000	147,000	147,000	1,470,000	1,470,000	1,470,000	60,480	5,940,480
Cost of Production (\$ 000)	33,636	32,362	32,068	32,068	32,068	32,068	32,068	32,068	32,068	32,068	323,126	325,576	327,277	17,920	1,316,436
\$ per ton sold	6.86	6.60	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.59	6.64	6.68	8.89	6.65
Net Pre-Tax Cash Flow															
Before CapEx	113,364	114,638	114,932	114,932	114,932	114,932	114,932	114,932	114,932	114,932	1,146,874	1,144,424	1,142,723	42,560	4,624,044
\$ per ton sold	23.14	23.40	23.46	23.46	23.46	23.46	23.46	23.46	23.46	23.46	23.41	23.36	23.32	21.11	23.35
CapEx (\$ 000):															
Total CapEx	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	20,000	20,000	19,000	—	79,000
Net Pre-Tax Cash Flow	111,364	112,638	112,932	112,932	112,932	112,932	112,932	112,932	112,932	112,932	1,126,874	1,124,424	1,123,723	42,560	4,545,044
Federal Income and State Franchise Taxes	22,096	22,405	22,550	22,737	22,991	22,949	22,907	23,033	23,025	22,983	234,419	236,866	237,130	8,373	944,464
After-Tax Net Cash Flow	89,268	90,234	90,382	90,195	89,942	89,984	90,026	89,900	89,907	89,949	892,455	887,558	886,593	34,187	3,600,579
DCF-NPV Analysis:															
Pre-Tax Discounted Cash Flows at 10%	106,182	97,633	88,989	80,899	73,545	66,859	60,781	55,255	50,232	45,665	279,986	107,712	41,478	897	1,156,113
Cumulative Pre-Tax Discounted Cash Flows at 10%	106,182	203,815	292,804	373,703	447,248	514,107	574,888	630,143	680,375	726,040	1,006,026	1,113,738	1,155,217	1,156,113	
After-Tax Discounted Cash Flows at 10%	85,114	78,213	71,220	64,611	58,572	53,273	48,452	43,986	39,991	36,372	221,889	85,022	32,729	720	920,164
Cumulative After-Tax Discounted Cash Flows at 10%	105,229	200,259	285,329	361,284	429,100	489,651	543,714	591,985	635,084	673,565	890,520	960,222	982,635	983,067	

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was no initial investment considered in the financial model. Risk is subjective, as such, BOYD recommends that each reader should evaluate the project based on their own investment criteria.

12.2.3 Sensitivity Analyses

Sensitivity analyses for the pre-tax and after-tax cash flows considering changes to revenues and Cost of Production/CapEx were prepared using discount rates of 8%, 10%, and 12%. Revenues were adjusted in increments of 5% and range from minus 20% to plus 20% base revenues; the corresponding weighted average sales price would range from \$24.00 per ton sold to \$36.00 per ton sold, with the base price of \$30.00 per ton sold as noted in Table 12.4 below.

Table 12.4: Sensitivity Analysis- Weighted Average Sales Prices

Weighted Average Sales Price \$ per ton sold								
-20%	-15%	-10%	-5%	0%	5%	10%	15%	20%
24.00	25.50	27.00	28.50	30.00	31.50	33.00	34.50	36.00

Costs were adjusted in increments of 5% and range from minus 20% to plus 20% base costs. BOYD notes that although the royalty expense is in Cost of Production, it changes with revenues as it is a function of revenue.

12.2.3.1 Pre-Tax Sensitivity Analyses

The following three tables (Tables 12.5-12.7) summarize the results of the pre-tax sensitivity analyses performed, which utilize discount rates of 8%, 10%, and 12% and incorporate the changes to revenue and Cost of Production/CapEx discussed above:

Table 12.5: Pre-Tax DCF-NPV at 8%

Pre-Tax DCF-NPV @ 8% (US\$ millions)										
		Revenues								
		-20%	-15%	-10%	-5%	0%	5%	10%	15%	20%
COP and CapEx	-20%	1,133	1,221	1,310	1,398	1,468	1,556	1,644	1,731	1,819
	-15%	1,115	1,204	1,292	1,380	1,451	1,538	1,626	1,713	1,801
	-10%	1,097	1,186	1,274	1,363	1,433	1,521	1,608	1,696	1,783
	-5%	1,080	1,168	1,257	1,345	1,415	1,503	1,590	1,678	1,766
	0%	1,062	1,150	1,239	1,327	1,398	1,485	1,573	1,660	1,748
	5%	1,044	1,133	1,221	1,310	1,380	1,468	1,555	1,643	1,730
	10%	1,027	1,115	1,204	1,292	1,362	1,450	1,537	1,625	1,713
	15%	1,009	1,097	1,186	1,274	1,345	1,432	1,520	1,607	1,695
	20%	991	1,080	1,168	1,257	1,327	1,414	1,502	1,590	1,677

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Table 12.6: Pre-Tax DCF-NPV at 10%

Pre-Tax DCF-NPV @ 10% (US\$ millions)										
		Revenues								
		-20%	-15%	-10%	-5%	0%	5%	10%	15%	20%
COP and CapEx	-20%	937	1,010	1,083	1,157	1,215	1,287	1,359	1,432	1,504
	-15%	922	996	1,069	1,142	1,200	1,272	1,345	1,417	1,490
	-10%	908	981	1,054	1,127	1,185	1,258	1,330	1,403	1,475
	-5%	893	966	1,039	1,113	1,171	1,243	1,316	1,388	1,460
	0%	878	952	1,025	1,098	1,166	1,229	1,301	1,373	1,446
	5%	864	937	1,010	1,083	1,141	1,214	1,286	1,359	1,431
	10%	849	922	996	1,069	1,127	1,199	1,272	1,344	1,417
	15%	835	908	981	1,054	1,112	1,185	1,257	1,330	1,402
	20%	820	893	966	1,040	1,098	1,170	1,242	1,315	1,387

Table 12.7: Pre-Tax DCF-NPV at 12%

Pre-Tax DCF-NPV @ 12% (US\$ millions)										
		Revenues								
		-20.0%	-15.0%	-10.0%	-5.0%	0.0%	5.0%	10.0%	15.0%	20.0%
COP and CapEx	-20%	797	859	921	983	1,033	1,094	1,156	1,218	1,279
	-15%	784	847	909	971	1,020	1,082	1,144	1,205	1,267
	-10%	772	834	896	959	1,008	1,070	1,131	1,193	1,254
	-5%	759	822	884	946	996	1,057	1,119	1,180	1,242
	0%	747	809	871	934	983	1,045	1,106	1,168	1,229
	5%	735	797	859	921	971	1,032	1,094	1,155	1,217
	10%	722	784	847	909	958	1,020	1,081	1,143	1,205
	15%	710	772	834	896	946	1,007	1,069	1,131	1,192
	20%	697	759	822	884	933	995	1,057	1,118	1,180

12.2.3.2 After-Tax Sensitivity Analyses

The following three tables (Tables 12.8-12.10) summarize the results of the after-tax sensitivity analyses performed, which utilize discount rates of 8%, 10%, and 12% and incorporate the changes to revenue and Cost of Production/CapEx discussed above:

Table 12.8: After-Tax DCF-NPV at 8%

After-Tax DCF-NPV @ 8% (US\$ millions)										
		Revenues								
		-20%	-15%	-10%	-5%	0%	5%	10%	15%	20%
COP and CapEx	-20%	904	974	1,043	1,113	1,168	1,236	1,305	1,374	1,443
	-15%	890	960	1,029	1,099	1,154	1,222	1,291	1,360	1,428
	-10%	876	946	1,015	1,085	1,140	1,208	1,277	1,346	1,414
	-5%	862	932	1,001	1,071	1,126	1,194	1,263	1,332	1,400
	0%	848	918	987	1,057	1,112	1,180	1,249	1,318	1,386
	5%	834	904	973	1,042	1,097	1,166	1,235	1,304	1,372
	10%	820	890	959	1,028	1,083	1,152	1,221	1,290	1,358
	15%	806	876	945	1,014	1,069	1,138	1,207	1,276	1,344
	20%	792	862	931	1,000	1,055	1,124	1,193	1,261	1,330

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Table 12.9: After-Tax DCF-NPV at 10%

After-Tax DCF-NPV @ 10% (US\$ millions)										
		Revenues								
		-20%	-15%	-10%	-5%	0%	5%	10%	15%	20%
COP and CapEx	-20%	749	806	864	921	967	1,023	1,080	1,137	1,194
	-15%	737	795	852	910	955	1,012	1,069	1,126	1,182
	-10%	726	783	840	898	943	1,000	1,057	1,114	1,171
	-5%	714	771	829	886	932	989	1,045	1,102	1,159
	0%	702	760	817	875	920	977	1,034	1,091	1,147
	5%	691	748	806	863	909	965	1,022	1,079	1,136
	10%	679	737	794	851	897	954	1,011	1,067	1,124
	15%	668	725	782	840	885	942	999	1,056	1,113
20%	656	713	771	828	874	930	987	1,044	1,101	

Table 12.10: After-Tax DCF-NPV at 12%

After-Tax DCF-NPV @ 12% (US\$ millions)										
		Revenues								
		-20.0%	-15.0%	-10.0%	-5.0%	0.0%	5.0%	10.0%	15.0%	20.0%
COP and CapEx	-20%	637	686	735	784	823	871	919	967	1,016
	-15%	627	676	725	774	813	861	909	958	1,006
	-10%	618	666	715	764	803	851	899	948	996
	-5%	608	657	705	754	793	841	890	938	986
	0%	598	647	695	744	783	831	880	928	976
	5%	588	637	686	734	773	821	870	918	966
	10%	578	627	676	725	763	812	860	908	956
	15%	568	617	666	715	753	802	850	898	947
20%	558	607	656	705	743	792	840	888	937	

12.3 Monahans Operation

12.3.1 Economic Analysis

BOYD prepared an economic analysis, as of January 1, 2022, for the Monahans Operation using the production, sales, and financial projections presented in this report. Our analysis confirms that the operation generates positive cash flows (based on a 10% discount rate), on a pre-tax and after-tax basis, that supports the statement of frac sand reserves herein.

12.3.2 Cash Flow Analysis

Table 12.11 below presents the pre-tax and after-tax cash flow projections based on the proposed LOM production schedule and revenue, cost of production, and CapEx estimates discussed above for the Monahans operation.

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Table 12.11: Summary Cash Flow Statement

	Summary Cash Flow Statement (\$ 000)				Total
	2022 to 2031	2032 to 2041	2042 to 2051	2052 to 2056	
Total Tons Sold (000)	49,000	49,000	49,000	22,723	169,723
Revenues	1,470,000	1,470,000	1,470,000	681,690	5,091,690
Cost of Production	321,883	322,520	324,970	155,573	1,124,946
CapEx	20,000	20,000	20,000	7,000	67,000
Net Pre-Tax Cash Flow	1,128,117	1,127,480	1,125,030	519,117	3,899,744
Federal Income and State Franchise Taxes	248,822	248,688	248,174	114,063	859,748
Net After-Tax Cash Flow	879,295	878,792	876,856	405,054	3,039,997

Three DCF-NPVs on a pre-tax basis and three DCF-NPVs on an after-tax basis, using discount rates of 8%, 10%, and 12%, were calculated utilizing the cash flows above. The DCF-NPV values used mid-year discounting and all cash flows were on a constant dollar basis.

The pre-tax DCF-NPVs range from approximately \$974 million to \$1,362 million, and the after-tax DCF-NPVs range from approximately \$759 million to \$1,062 million Table 12.12 summarizes the results of the pre-tax and after-tax analyses:

Table 12.12: DCF-NPV

	DCF-NPV (\$ millions)		
	8%	10%	12%
Pre-Tax	1,362	1,138	974
After-Tax	1,062	887	759

Refer to Table 12.13 for the detailed LOM cash flow analysis and corresponding pre-tax and after-tax DCF-NPV analyses at a 10% discount rate.

BOYD notes that the NPV estimate was made for purposes of confirming the economic viability of the reported frac sand reserves and not for purposes of valuing Atlas, the Monahans operation, or its assets. IRR and project payback were not calculated, as there was no initial investment considered in the financial model. Risk is subjective, as such, BOYD recommends that each reader should evaluate the project based on their own investment criteria.

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TABLE 12.13

PRE-TAX AND AFTER-TAX CASH FLOW ANALYSIS
 AES - MONAHANS OPERATION
 Ward and Winkler Counties, Texas
 Prepared For
 ATLAS ENERGY SOLUTIONS, INC

By
 John T. Boyd Company
 Mining and Geological Consultants
 May 2022

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032 to 2041	2042 to 2051	2052 to 2056	Total
Production Statistics														
(Tons 000):														
ROM Production off														
Fee Property	5,630	5,630	5,630	5,630	5,630	5,630	5,630	5,630	5,630	5,630	56,298	56,298	26,108	195,002
Overall														
Processing														
Recovery (%)	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
Dry Plant Product	4,900	4,900	4,900	4,900	4,900	4,900	4,900	4,900	4,900	4,900	49,000	49,000	22,723	169,723
Sales and Financial														
Data:														
Saleable Product														
Tons Sold (000):	4,900	4,900	4,900	4,900	4,900	4,900	4,900	4,900	4,900	4,900	49,000	49,000	22,723	169,723
Product Pricing (\$ per ton)	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Revenues (\$ 000)	147,000	147,000	147,000	147,000	147,000	147,000	147,000	147,000	147,000	147,000	1,470,000	1,470,000	681,690	5,091,690
Cost of Production (\$ 000)	33,526	32,301	32,007	32,007	32,007	32,007	32,007	32,007	32,007	32,007	322,520	324,970	155,573	1,124,946
\$ per ton sold	6.84	6.59	6.53	6.53	6.53	6.53	6.53	6.53	6.53	6.53	6.58	6.63	6.85	6.63
Net Pre-Tax Cash														
Flow Before														
CapEx	113,474	114,699	114,993	114,993	114,993	114,993	114,993	114,993	114,993	114,993	1,147,480	1,145,030	526,117	3,966,744
\$ per ton sold	23.16	23.41	23.47	23.47	23.47	23.47	23.47	23.47	23.47	23.47	23.42	23.37	23.15	23.37
CapEx (\$ 000):														
Total CapEx	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	20,000	20,000	7,000	67,000
Net Pre-Tax Cash														
Flow	111,474	112,699	112,993	112,993	112,993	112,993	112,993	112,993	112,993	112,993	1,127,480	1,125,030	519,117	3,899,744
Federal Income and State Franchise Taxes	24,601	24,859	24,920	24,920	24,920	24,920	24,920	24,920	24,920	24,920	248,688	248,174	114,063	859,748
After-Tax Net Cash														
Flow	86,873	87,840	88,073	88,073	88,073	88,073	88,073	88,073	88,073	88,073	878,792	876,856	405,054	3,039,997
DCF-NPV Analysis:														
Pre-Tax Discounted Cash Flows at 10%	106,286	97,686	89,037	80,943	73,584	66,895	60,813	55,285	50,259	45,690	280,136	107,770	24,012	1,138,396
Cumulative Pre-Tax Discounted Cash Flows at 10%	106,286	203,972	293,009	373,951	447,536	514,430	575,244	630,529	680,788	726,478	1,006,614	1,114,384	1,138,396	
After-Tax Discounted Cash Flows at 10%	82,830	76,139	69,400	63,091	57,355	52,141	47,401	43,092	39,175	35,613	218,347	83,997	18,733	887,313
Cumulative After-Tax Discounted Cash Flows at 10%	82,830	158,969	228,369	291,460	348,815	400,956	448,357	491,449	530,624	566,237	784,584	868,581	887,313	

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12.3.3 Sensitivity Analyses

Sensitivity analyses for the pre-tax cash flows, considering changes to revenues and Cost of Production/CapEx, were prepared using discount rates of 8%, 10%, and 12%. Revenues were adjusted in increments of 5% and range from minus 20% to plus 20% base revenues; the corresponding weighted average sales price would range from \$24.00 per ton sold to \$36.00 per ton sold, with the base price of \$30.00 per ton sold as noted in Table 12.14 below.

Table 12.14: Sensitivity Analysis- Weighted Average Sales Prices

Weighted Average Sales Price \$ per ton sold									
-20%	-15%	-10%	-5%	0%	5%	10%	15%	20%	
24.00	25.50	27.00	28.50	30.00	31.50	33.00	34.50	36.00	

Costs were adjusted in increments of 5% and range from minus 20% to plus 20% base costs. BOYD notes that although the royalty expense is in Cost of Production, it changes with revenues as it is a function of revenue.

12.3.3.1 Pre-Tax Sensitivity Analyses

The following three tables (Tables 12.15-12.17) summarize the results of the pre-tax sensitivity analyses performed, which utilize discount rates of 8%, 10% and 12% and incorporate the changes to revenue and Cost of Production/CapEx discussed above:

Table 12.15: Pre-Tax DCF-NPV at 8%

Pre-Tax DCF-NPV @ 8% (US\$ millions)										
		Revenues								
		-20%	-15%	-10%	-5%	0%	5%	10%	15%	20%
COP and CapEx	-20%	1,104	1,190	1,276	1,362	1,431	1,516	1,601	1,687	1,772
	-15%	1,087	1,173	1,259	1,345	1,414	1,499	1,584	1,669	1,755
	-10%	1,069	1,156	1,242	1,328	1,396	1,482	1,567	1,652	1,738
	-5%	1,052	1,138	1,225	1,311	1,379	1,465	1,550	1,635	1,720
	0%	1,035	1,121	1,207	1,294	1,362	1,447	1,533	1,618	1,703
	5%	1,018	1,104	1,190	1,276	1,345	1,430	1,515	1,601	1,686
	10%	1,001	1,087	1,173	1,259	1,328	1,413	1,498	1,584	1,669
	15%	984	1,070	1,156	1,242	1,311	1,396	1,481	1,566	1,652
20%	966	1,053	1,139	1,225	1,293	1,379	1,464	1,549	1,634	

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Table 12.16: Pre-Tax DCF-NPV at 10%

Pre-Tax DCF-NPV @ 10% (US\$ millions)										
		Revenues								
		-20%	-15%	-10%	-5%	0%	5%	10%	15%	20%
COP and CapEx	-20%	923	995	1,067	1,139	1,196	1,267	1,338	1,410	1,481
	-15%	908	980	1,052	1,124	1,181	1,253	1,324	1,395	1,467
	-10%	894	966	1,038	1,110	1,167	1,238	1,310	1,381	1,452
	-5%	880	952	1,024	1,096	1,153	1,224	1,295	1,367	1,438
	0%	865	937	1,009	1,081	1,138	1,210	1,281	1,352	1,423
	5%	851	923	995	1,067	1,124	1,195	1,267	1,338	1,409
	10%	836	908	980	1,053	1,110	1,181	1,252	1,324	1,395
	15%	822	894	966	1,038	1,095	1,167	1,238	1,309	1,380
	20%	808	880	952	1,024	1,081	1,152	1,224	1,295	1,366

Table 12.17: Pre-Tax DCF-NPV at 12%

Pre-Tax DCF-NPV @ 12% (US\$ millions)										
		Revenues								
		-20%	-15%	-10%	-5%	0%	5%	10%	15%	20%
COP and CapEx	-20%	790	851	913	974	1,023	1,084	1,145	1,206	1,267
	-15%	777	839	901	962	1,011	1,072	1,133	1,194	1,255
	-10%	765	827	888	950	999	1,060	1,121	1,182	1,243
	-5%	753	814	876	938	987	1,048	1,109	1,170	1,231
	0%	740	802	864	925	974	1,035	1,096	1,157	1,218
	5%	728	790	851	913	962	1,023	1,084	1,145	1,206
	10%	716	777	839	901	950	1,011	1,072	1,133	1,194
	15%	704	765	827	888	937	998	1,059	1,120	1,181
	20%	691	753	815	876	925	986	1,047	1,108	1,169

12.3.3.2 After-Tax Sensitivity Analyses

The following three tables (Tables 12.18-12.20) summarize the results of the after-tax sensitivity analyses performed, which utilize discount rates of 8%, 10% and 12% and incorporate the changes to revenue and Cost of Production/CapEx discussed above:

Table 12.18: After-Tax DCF-NPV at 8%

After-Tax DCF-NPV @ 8% (US\$ millions)										
		Revenues								
		-20%	-15%	-10%	-5%	0%	5%	10%	15%	20%
COP and CapEx	-20%	882	949	1,017	1,084	1,138	1,205	1,272	1,339	1,406
	-15%	868	936	1,003	1,071	1,124	1,191	1,258	1,325	1,392
	-10%	854	922	990	1,057	1,111	1,178	1,245	1,311	1,378
	-5%	841	908	976	1,044	1,097	1,164	1,231	1,298	1,365
	0%	827	895	962	1,030	1,083	1,150	1,217	1,284	1,351
	5%	813	881	949	1,016	1,070	1,137	1,204	1,271	1,337
	10%	800	867	935	1,003	1,056	1,123	1,190	1,257	1,324
	15%	786	854	921	989	1,043	1,109	1,176	1,243	1,310
	20%	773	840	908	975	1,029	1,096	1,163	1,230	1,297

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Table 12.19: After-Tax DCF-NPV at 10%

After-Tax DCF-NPV @ 10% (US\$ millions)										
		Revenues								
		-20%	-15%	-10%	-5%	0%	5%	10%	15%	20%
COP and CapEx	-20%	738	794	851	907	952	1,008	1,064	1,120	1,176
	-15%	726	783	839	896	940	996	1,052	1,108	1,164
	-10%	715	771	828	884	929	985	1,041	1,097	1,153
	-5%	703	760	816	873	918	974	1,029	1,085	1,141
	0%	692	748	805	861	906	962	1,018	1,074	1,130
	5%	681	737	794	850	895	951	1,007	1,063	1,118
	10%	669	726	782	839	883	939	995	1,051	1,107
	15%	658	714	771	827	872	928	984	1,040	1,096
	20%	646	703	759	816	861	916	972	1,028	1,084

Table 12.20: After-Tax DCF-NPV at 12%

After-Tax DCF-NPV @ 12% (US\$ millions)										
		Revenues								
		-20%	-15%	-10%	-5%	0%	5%	10%	15%	20%
COP and CapEx	-20%	632	680	728	777	815	863	911	959	1,007
	-15%	622	670	719	767	805	853	901	949	997
	-10%	612	661	709	757	796	843	891	939	987
	-5%	602	651	699	747	786	834	882	929	977
	0%	593	641	689	738	776	824	872	920	967
	5%	583	631	680	728	766	814	862	910	958
	10%	573	621	670	718	756	804	852	900	948
	15%	563	612	660	708	747	795	842	890	938
	20%	554	602	650	699	737	785	833	881	928

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13.0 PERMITTING AND COMPLIANCE

13.1 Permitting

The Kermit and Monahans operations are predominantly regulated by the TDEQ with respect to environmental compliance. The predominant permitting requirement is an active NSR permit for air pollution control. Both operations have a current NSR permit which is renewable in 2028, (Kermit 149761) and (Monahans 150399). Other permits held for the operations include: Stormwater, Above Ground Storage Tank, Aggregate Production Operation, and a septic permit. A SPCC plan (spill prevention plan) is also active at each operation. A summary of the permits for both operations is as follows:

<u>Permit Number</u>	<u>Permit type</u>	<u>Plant</u>	<u>Status</u>	<u>Expires</u>
149761	Air Permit (NSR)	1 - Kermit	Active	6/29/2028
AP0002721	Aggregate Production Operation (APO Registration)	1 - Kermit	Active	
2480014	Water Well 1 - CN605406776, RN109897975 -is temporarily approved for use for the period of two years from this letter date based on the conditions	1 - Kermit	Pending	3/6/2022
n/a	SPCC (Spill Plan)	1 - Kermit	Active	
148572	Permit By Rule	2 - Monahans	Active	
148113	Permit By Rule	1 - Kermit	Active	
150399	Air Permit	2 - Monahans	Active	6/29/2028
AP0002804	Aggregate Production Operation (APO Registration)	2 - Monahans	Active	
2480015	Water Well 2 - CN605406776, RN109954511 - temporarily in service	2 - Monahans	Pending	
n/a	SPCC (Spill Plan) -Oi and Gas	2 - Monahans	Active	
NOA WKP-14-17	septic Tank - North - Kermit			
	septic Tank - South - Monahans			

Although there are no formal state or federal reclamation obligations required for the operation, the Lessor of the property controlled by lease at Monahans has reclamation requirements for post mining land use. An excerpt from the lease document pertaining to these requirements is as follows:

Maintenance, Security, and Restoration of the Leased Premises

- (a) Lessee shall maintain the Leased Premises in a neat and orderly condition, free of loose trash and debris, and in keeping with industry standard practices in the sand mining industry. Lessee shall construct and maintain all roads constructed and/or used by Lessee in "all weather" condition such that they are capable of normal use by Lessee and others without significant damage during inclement weather.
- (b) To the extent deemed necessary by Lessor, Lessee shall construct and maintain a fence around the perimeter of Lessee's facility (or portions thereof, as set forth in written notice to Lessee) in order to protect livestock belonging to Lessor's grazing tenant(s). Such fences shall be constructed within ninety (90) days after written notice to Lessee. Lessee is solely responsible for the security of Lessee's facility and improvements, but shall provide keys, lock combinations or access cards to Lessor as necessary for Lessor to access Lessee's facility and all parts of the Leased Premises, Lessor may visit the Leased Premises at any time, but will provide at least forty-eight (48) hours' verbal notice to Lessee's on site manager before entering Lessee's gated processing facility.
- (c) Lessee shall, within six (6) months after termination of this Lease for any reason, remove all equipment, structures, and other improvements placed by Lessee on the Leased Premises during the Term (including, without limitation, any pipelines), other than any supports placed in openings, any timbers, framework, or fences necessary to the use and maintenance of openings, approaches to operating pit, or dikes, water level control structures, and roads. Lessee further agrees with respect to any Materials stored or stockpiled on unmined portions of the Leased Premises to level such Materials. Notwithstanding the foregoing, after any termination of this Lease, Lessee may, for a period not to exceed six (6) months, and for no additional consideration, store on any unmined portions of the Leased Premises, any equipment and other Materials. Notwithstanding the foregoing, Lessee shall have the right at any time during the Term, or within six (6) months after the expiration of this Lease, to remove any improvements, structures, fixtures, machinery, equipment, supplies and other property and Materials placed by Lessee in. on or under the Leased Premises.

Additionally, Atlas voluntarily participates in a Candidate Conservation Agreement with Assurances for the DSL. This mitigates DSL regulatory risk for both of the mining operations. Atlas has the option to either set aside acreage for the DSL habitat or contribute cash based on the acreage within the habitat area. Atlas has significant acreage without sand reserves to set aside for this purpose and can continue mining based on the agreement. The agreement lasts for 23 years starting in January 2021.

13.2 Compliance

The Kermit and Monahans operations are regulated by TCEQ on matters involving air and water pollution and inspected periodically by the state if issues arise.

Mine safety is regulated by the federal government by MSHA as are all surface mining operations. MSHA inspects the facilities a minimum of twice yearly. Atlas' safety record compares favorably with its regional peers. For clarity, MSHA refers to Kermit and Monahans as Kermit North (MSHA Id# 4105367) and Kermit South (MSHA Id# 4105359), respectively. Data indicate that during the mines operational lives (2018 through 2021), Non-Fatal Lost Days injury rates have been on the decline. Atlas' incident rate has trended below average in comparison with other west Texas regional frac sand mining operations during the past three years (2018 through 2021).

Based on our review of information provided by Atlas and available public information, it is BOYD's opinion that Atlas' record of compliance with applicable mining, water quality, and environmental regulations is generally typical for the industry. BOYD is not aware of any regulatory violation or compliance issue that would materially impact the frac sand reserve estimate.

14.0 INTERPRETATION AND CONCLUSIONS

14.1 Findings

Based on our independent technical review and geoscientific study of the Kermit and Monahans mines, BOYD concludes:

- Sufficient data have been obtained through the site exploration and sampling program and mining operations to support the geological interpretations of seam thickness, grain size distribution and API quality for the portions of the sand underlying the controlled property. The data are of sufficient quantity and reliability to reasonably support the sand resource and sand reserve estimates in this technical report summary.
- Estimates of proppant sand reserves reported herein are reasonably and appropriately supported by technical studies, which consider mining plans, revenue, and operating and capital cost estimates.
- The 368 million product tons of frac sand reserves (as of December 31, 2021) estimated for the two mines are economically extractable under reasonable expectations of market volumes and pricing for proppant sand products, estimated operation costs, and capital expenditures.
- There are no other relevant data or information material to the Kermit or Monahans mine that is necessary to make this technical report summary not misleading.

14.2 Significant Risks and Uncertainties

As with any mining project there are certain inherent risks associated with the overall operation of a facility. Atlas has sufficiently mitigated operational risk through obtaining sufficient geologic sampling information and analysis. Additionally, Atlas has engineered the processing plant to include parallel duplicate process circuits which significantly increases plant availability. However, it should be noted that frac sand is generally marketed exclusively to the energy industry which has historically been a volatile industry.