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

	FORM 10-K		
☑ Annu	al Report Pursuant to Section 13 or 15(d) of the Secu	rities Exchange Act of 1934	
	For the fiscal year ended December 31, 20	021	
	or		
☐ Transit	ion Report Pursuant to Section 13 or 15(d) of the Sec	urities Exchange Act of 1934	
	Commission file number 001-31539		
	SM ENERGY COMPANY (Exact name of registrant as specified in its c	harter)	
Delaware		41-0518430	
(State or other jurisdiction of incorporation	or organization)	(I.R.S. Employer Identification No.)	
1775 Sherman Street, Suite 1200, Denv (Address of principal executive of		80203 (Zip Code)	
	(303) 861-8140 (Registrant's telephone number, including are	a code)	
	Securities registered pursuant to Section 12(b) of	of the Act:	
Title of each class	Trading Symbol(s)	Name of each exchange on which	registered
Common stock, \$.01 par value	SM	New York Stock Exchang	је
	Securities registered pursuant to Section 12(g) of the	ne Act: None	
Indicate by check mark whether the registrant (1) has filed al such shorter period that the registrant was required to file such indicate by check mark whether the registrant has submitted chapter) during the preceding 12 months (or for such shorter indicate by check mark whether the registrant is a large accedefinitions of "large accelerated filer," "accelerated filer," "small Large accelerated filer Non-accelerated filer	ch reports), and (2) has been subject to such filing required to be period that the registrant was required to submit such that the registrant was required to submit such the submit such that the registrant was required to submit such that the registrant was required to submit sub	uirements for the past 90 days. Yes ☑ No ☐ e submitted pursuant to Rule 405 of Regulation i files). Yes ☑ No ☐ er, a smaller reporting company, or emerging gr	S-T (§232.405 of this
		Emerging growth company	
If an emerging growth company, indicate by check mark if th standards provided pursuant to Section 13(a) of the Exchanç		ition period for complying with any new or revise	d financial accounting
Indicate by check mark whether the registrant has filed a rep Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C.7262(b)			financial reporting under
Indicate by check mark whether the registrant is a shell comp	pany (as defined in Rule 12b-2 of the Act). Yes \Box No	abla	
The aggregate market value of the 119,336,315 shares of vo 2021, the last business day of the registrant's most recently of Shares of common stock held by each director and executive registrant to be in a control position have been excluded. Thi	completed second fiscal quarter, of \$24.63 per share, a officer and by each person who owns 10 percent or its	as reported on the New York Stock Exchange, we more of the outstanding common stock or who is	vas \$2,939,253,438.
As of February 10, 2022, the registrant had 121,862,248 share	res of common stock outstanding.		
	DOCUMENTS INCORPORATED BY REFER	ENCE	
Certain information required by Items 10, 11, 12, 13, and 14 relating to its 2022 annual meeting of stockholders, to be filed		om portions of the registrant's Definitive Proxy S	tatement on Schedule 14A
	4		

TABLE OF CONTENTS

<u>Item</u>		Page
	Cautionary Information about Forward-Looking Statements	<u>4</u>
	Glossary	<u>5</u>
	Part I	<u>8</u>
Items 1. and 2.	Business and Properties	<u>8</u>
	General General	8
	Strategy	<u>8</u>
	Significant Developments in 2021	<u>8</u>
	Outlook	9
	Areas of Operation	<u>9</u>
	Reserves	<u>11</u>
	Production	<u>15</u>
	Productive Wells	<u>15</u>
	Drilling and Completion Activity	16
	Title to Properties	16
	Acreage	<u>17</u>
	Delivery Commitments	<u>17</u>
	Major Customers	<u>17</u>
	Human Capital	<u></u>
	Seasonality	<u>18</u>
	Competition	<u>19</u>
	Government Regulations	<u>19</u>
	Available Information	<u>22</u>
Item 1A.	Risk Factors	<u>22</u>
Item 1B.	Unresolved Staff Comments	<u>35</u>
Item 3.	Legal Proceedings	<u>35</u>
Item 4.	Mine Safety Disclosures	<u>35</u>
	Part II	<u>36</u>
Item 5.	Market For Registrant's Common Equity, Related Stockholder Matters, and Issuer Purchases of	
	Equity Securities	<u>36</u>
Item 6.	[Reserved]	<u>37</u>
Item 7.	Management's Discussion and Analysis of Financial Condition and Results of Operations	<u>38</u>
	Overview of the Company	<u>38</u>
	Financial Results of Operations and Additional Comparative Data	<u>42</u>
	Comparison of Financial Results and Trends Between 2021 and 2020 and Between 2020 and 2019	<u>45</u>
	Overview of Liquidity and Capital Resources	<u>48</u>
	Critical Accounting Policies and Estimates	<u>52</u>
	Accounting Matters	<u>55</u>
	Environmental	<u>55</u>
	Non-GAAP Financial Measures	<u>56</u>
Item 7A.	Quantitative and Qualitative Disclosures About Market Risk	<u>50</u>
Item 8.	Consolidated Financial Statements and Supplementary Data	<u>51</u> <u>58</u>
Item 9.	Changes In and Disagreements With Accountants on Accounting and Financial Disclosure	<u>100</u>
Item 9A.	Controls and Procedures	101
Item 9B.	Other Information	104
Item 9C	Disclosure Regarding Foreign Jurisdictions that Prevent Inspection	104

TABLE OF CONTENTS

(Continued)

<u>Item</u>	<u>Page</u>
Part III	<u>104</u>
Item 10. <u>Directors, Executive Officers, and Corporate Governance</u>	<u>104</u>
Item 11. Executive Compensation	<u>104</u>
<u>Item 12.</u> <u>Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters</u>	<u>104</u>
Item 13. Certain Relationships and Related Transactions, and Director Independence	<u>105</u>
<u>Item 14.</u> <u>Principal Accountant Fees and Services</u>	<u>105</u>
Part IV	<u>106</u>
<u>Item 15.</u> <u>Exhibits and Consolidated Financial Statement Schedules</u>	<u>106</u>
Item 16. Form 10-K Summary	<u>109</u>
<u>Signatures</u>	<u>110</u>

Cautionary Information about Forward-Looking Statements

This Annual Report on Form 10-K ("Form 10-K" or "this report") contains "forward-looking statements" within the meaning of Section 27A of the Securities Act of 1933, as amended (the "Securities Act"), and Section 21E of the Securities Exchange Act of 1934, as amended (the "Exchange Act"). All statements included in this report, other than statements of historical facts, that address activities, conditions, events, or developments with respect to our financial condition, results of operations, business prospects or economic performance that we expect, believe, or anticipate will or may occur in the future, or that address plans and objectives of management for future operations, are forward-looking statements. The words "anticipate," "assume," "believe," "budget," "could," "estimate," "expect," "forecast," "goal," "intend," "pending," "plan," "potential," "projected," "target," "will," and similar expressions are intended to identify forward-looking statements. Forward-looking statements appear throughout this report, and include statements about such matters as:

- the impacts of the global COVID-19 pandemic ("Pandemic") on us, our industry, our financial condition, and our results of operations;
- the amount and nature of future capital expenditures and the availability of liquidity and capital resources to fund capital expenditures;
- any changes to the borrowing base or aggregate lender commitments under our Sixth Amended and Restated Credit Agreement, as amended ("Credit Agreement");
- our outlook on prices for future crude oil, natural gas, and natural gas liquids (also referred to throughout this report as "oil," "gas," and "NGLs," respectively), well costs, service costs, production costs, and general and administrative costs;
- our drilling and completion activities and other exploration and development activities, our ability to obtain permits and governmental approvals, and plans by us, our joint development partners, and/or other third-party operators;
- possible or expected acquisitions and divestitures, including the possible divestiture or farm-out of, or farm-in or joint development of, certain properties;
- oil, gas, and NGL reserve estimates and estimates of both future net revenues and the present value of future net revenues associated with those reserve estimates, as well as the conversion of proved undeveloped reserves to proved developed reserves;
- · our expected future production volumes, identified drilling locations, as well as drilling prospects, inventories, projects and programs;
- · cash flows, liquidity, interest and related debt service expenses, changes in our effective tax rate, and our ability to repay debt in the future;
- business strategies and other plans and objectives for future operations, including plans for expansion and growth of operations or to defer capital investment, plans
 with respect to future dividend payments, debt redemptions or equity repurchases, capital markets activities, environmental, social, and governance ("ESG") goals
 and initiatives, and our outlook on our future financial condition or results of operations; and
- other similar matters, such as those discussed in Management's Discussion and Analysis of Financial Condition and Results of Operations in Part II, Item 7 of this report.

Our forward-looking statements are based on assumptions and analyses made by us in light of our experience and our perception of historical trends, current conditions, expected future developments, and other factors that we believe are appropriate under the circumstances. We caution you that forward-looking statements are not guarantees of future performance and these statements are subject to known and unknown risks and uncertainties, which may cause our actual results or performance to be materially different from any future results or performance expressed or implied by the forward-looking statements. Factors that may cause our financial condition, results of operations, business prospects or economic performance to differ from expectations include the factors discussed in Part I, Item 1A, Risk Factors below and elsewhere in this report.

The forward-looking statements in this report speak only as of the filing of this report. Although we may from time to time voluntarily update our prior forward-looking statements, we disclaim any commitment to do so except as required by applicable securities laws.

Glossary

The oil and gas terms and other terms defined in this section are used throughout this report. The definitions of the terms "developed reserves," "exploratory well," "field," "proved reserves," and "undeveloped reserves" have been abbreviated from the respective definitions under Rule 4-10(a) of Regulation S-X. The entire definitions of those terms under Rule 4-10(a) of Regulation S-X can be located through the Securities and Exchange Commission's ("SEC") website at www.sec.gov.

Ad valorem tax. A tax based on the value of real estate or personal property.

ASC. Accounting Standards Codification.

ASU. Accounting Standards Update.

Bbl. One stock tank barrel, or 42 U.S. gallons liquid volume, used in reference to oil, NGLs, water, or other liquid hydrocarbons.

BBtu. One billion British thermal units.

Bcf. One billion cubic feet, used in reference to gas.

BOE. Barrels of oil equivalent. Oil equivalents are determined using the ratio of six Mcf of gas to one Bbl of oil or NGLs.

Btu. One British thermal unit, the quantity of heat required to raise the temperature of a one-pound mass of water by one degree Fahrenheit.

Completion. The installation of equipment for production of oil, gas, and/or NGLs, or in the case of a dry hole, the reporting to the applicable authority that the well has been abandoned

Conversion rate. Current year conversions of proved undeveloped reserves to proved developed reserves, divided by beginning of the year proved undeveloped reserves (also commonly referred to in our industry as "track record").

Costs incurred. Costs incurred in oil and gas property acquisition, exploration, and development activities, whether capitalized or expensed.

Developed acreage. The number of acres that are allocated or assignable to productive wells or wells capable of production.

Developed reserves. Reserves that can be expected to be recovered: (i) through existing wells with existing equipment and operating methods or in which the cost of the required equipment is relatively minor compared to the cost of a new well; and (ii) through installed extraction equipment and infrastructure operational at the time of the reserves estimate if the extraction is by means not involving a well.

Development well. A well drilled within the proved area of an oil or gas reservoir to the depth of a stratigraphic horizon known to be productive.

Dry hole. An exploratory, development, or extension well that proves to be incapable of producing oil, gas, and/or NGLs in sufficient commercial quantities to justify completion, or upon completion, the economic operation of a well (also referred to as "non-productive well").

Exploratory well. A well drilled to find a new field or to find a new reservoir in a field previously found to be productive of oil or gas in another reservoir.

FASB. Financial Accounting Standards Board.

Fee properties. The most extensive interest that can be owned in land, including surface and mineral (including oil and gas) rights.

Field. An area consisting of a single reservoir or multiple reservoirs all grouped on or related to the same individual geological structural feature and/or stratigraphic condition.

Formation. A succession of sedimentary beds that were deposited under the same general geologic conditions.

GAAP. Accounting principles generally accepted in the United States.

Gross acres or gross wells. Acres or wells in which a working interest is owned.

Horizontal wells. Wells that are drilled at angles greater than 70 degrees from vertical.

LIBOR. London Interbank Offered Rate. Discontinued as a global reference rate for new loans and contracts after December 31, 2021.

Lease operating expenses. The expenses incurred in the lifting of oil, gas, and/or NGLs from a producing formation to the surface, constituting part of the current operating expenses of a working interest, and also including labor, superintendence, supplies, repairs, maintenance, allocated overhead costs, and other expenses incidental to production, but not including lease acquisition, drilling, or completion costs.

MBbl. One thousand barrels, used in reference to oil, NGLs, water, or other liquid hydrocarbons.

MBOE. One thousand barrels of oil equivalent.

Mcf. One thousand cubic feet, used in reference to gas.

MMBbl. One million barrels, used in reference to oil, NGLs, water, or other liquid hydrocarbons.

MMBOE. One million barrels of oil equivalent.

MMBtu. One million British thermal units.

MMcf. One million cubic feet, used in reference to gas.

Net acres or net wells. Sum of our fractional working interests owned in gross acres or gross wells.

NGLs. The combination of ethane, propane, isobutane, normal butane, and natural gasoline that when removed from gas become liquid under various levels of higher pressure and lower temperature.

NYMEX WTI. New York Mercantile Exchange West Texas Intermediate, a common industry benchmark price for oil.

NYMEX Henry Hub. New York Mercantile Exchange Henry Hub, a common industry benchmark price for gas.

OPEC+. The Organization of the Petroleum Exporting Countries Plus other non-OPEC oil producing countries.

OPIS. Oil Price Information Service, a common industry benchmark for NGL pricing at Mont Belvieu, Texas.

PV-10. PV-10 is a non-GAAP measure. The present value of estimated future revenue to be generated from the production of estimated net proved reserves, net of estimated production and future development costs, based on prices used in estimating the proved reserves and costs in effect as of the date indicated (unless such costs are subject to change pursuant to contractual provisions), without giving effect to non-property related expenses such as general and administrative expenses, debt service, future income tax expenses, or depreciation, depletion, and amortization, discounted using an annual discount rate of 10 percent. While this measure does not include the effect of income taxes as it would in the use of the standardized measure of discounted future net cash flows calculation, it does provide an indicative representation of the relative value of the Company on a comparative basis to other companies and from period to period.

Productive well. An exploratory, development, or extension well that is producing or is capable of commercial production of oil, gas, and/or NGLs.

Proved reserves. Those quantities of oil, gas, and NGLs which, by analysis of geoscience and engineering data, can be estimated with reasonable certainty to be economically producible from a given date forward, from known reservoirs, and under existing economic conditions, operating methods, and government regulations prior to the time at which contracts providing the right to operate expire, unless evidence indicates that renewal is reasonably certain, regardless of whether deterministic or probabilistic methods are used for the estimation. Existing economic conditions include prices and costs at which economic producibility from a reservoir is to be determined, and the price to be used is the average price during the 12-month period prior to the ending date of the period covered by the report, determined as an unweighted arithmetic average of the first-day-of-the-month price for each month within such period, unless prices are defined by contractual arrangements, excluding escalations based upon future conditions.

Recompletion. The completion of an existing wellbore in a formation other than that in which the well has previously been completed.

Reserve life index. Expressed in years, represents the estimated net proved reserves at a specified date divided by actual production for the preceding 12-month period.

Reservoir. A porous and permeable underground formation containing a natural accumulation of producible oil, gas, and/or associated liquid resources that is confined by impermeable rock or water barriers and is individual and separate from other reservoirs.

Resource play. A term used to describe an accumulation of oil, gas, and/or associated liquid resources known to exist over a large areal expanse, which when compared to a conventional play typically has lower expected geological risk.

Royalty. The amount or fee paid to the owner of mineral rights, expressed as a percentage or fraction of gross income from oil, gas, and NGLs produced and sold unencumbered by expenses relating to the drilling, completing, and operating of the affected well.

Royalty interest. An interest in an oil and gas property entitling the owner to shares of oil, gas, and NGL production free of costs of exploration, development, and production operations.

Seismic. The sending of energy waves or sound waves into the earth and analyzing the wave reflections to infer the type, size, shape, and depth of subsurface rock formations.

Shale. Fine-grained sedimentary rock composed mostly of consolidated clay or mud. Shale is the most frequently occurring sedimentary rock.

Standardized measure of discounted future net cash flows. The discounted future net cash flows related to estimated proved reserves based on prices used in estimating the reserves, year-end costs, and statutory tax rates, at a 10 percent annual discount rate. The information for this calculation is included in Supplemental Oil and Gas Information (unaudited) located in Part II, Item 8 of this report.

Undeveloped acreage. Lease acreage on which wells have not been drilled or completed to a point that would permit the production of commercial quantities of oil, gas, and NGLs regardless of whether such acreage contains estimated net proved reserves.

Undeveloped reserves. Reserves that are expected to be recovered from new wells on undrilled acreage, or from existing wells where a relatively major expenditure is required for recompletion. The applicable SEC definition of undeveloped reserves provides that undrilled locations can be classified as having undeveloped reserves only if a development plan has been adopted indicating that they are scheduled to be drilled within five years, unless the specific circumstances justify a longer time.

Working interest. The operating interest that gives the owner the right to drill, produce, and conduct operating activities on the property and to share in the production, sales, and costs.

PART I

When we use the terms "SM Energy," the "Company," "we," "us," or "our," we are referring to SM Energy Company and its subsidiaries unless the context otherwise requires. We have included certain technical terms important to an understanding of our business in the *Glossary* section of this report. Throughout this document we make statements and projections that address future expectations, possibilities, or events, all of which may be classified as "forward-looking statements." Please refer to the *Cautionary Information about Forward-Looking Statements* section of this report for an explanation of these types of statements and the associated risks and uncertainties.

ITEMS 1. AND 2. BUSINESS AND PROPERTIES

General

We are an independent energy company engaged in the acquisition, exploration, development, and production of oil, gas, and NGLs in the state of Texas. SM Energy was founded in 1908, incorporated in Delaware in 1915, and our initial public offering of common stock was in December 1992. Our common stock trades on the New York Stock Exchange under the ticker symbol "SM."

Our principal office is located at 1775 Sherman Street, Suite 1200, Denver, Colorado 80203, and our telephone number is (303) 861-8140.

Strategy

Our strategic objective is to be a premier operator of top-tier oil and gas assets. Our purpose is to make people's lives better by responsibly producing energy supplies, contributing to domestic energy security and prosperity, and having a positive impact in the communities where we live and work. Our short-term operational and financial goals include generating positive cash flows while strengthening our balance sheet through absolute debt reduction and improved leverage metrics, and increasing the value of our capital project inventory through exploration and development optimization. Our long-term vision is to sustainably grow value for all of our stakeholders. We believe that in order to accomplish this vision, we must be a premier operator of top-tier oil and gas assets. Our strategy for achieving these goals is to focus on high-quality economic drilling, completion, and production opportunities. Our investment portfolio is comprised of oil and gas producing assets in the state of Texas, specifically in the Midland Basin of West Texas and in the Maverick Basin of South Texas.

We are committed to exceptional safety, health, and environmental stewardship; supporting the professional development of a diverse and thriving team of employees; making a positive impact in the communities where we live and work; and transparency in reporting our progress in these areas. We have prioritized ESG initiatives by, among other things, integrating enhanced environmental and social programs throughout the organization and setting near-term and medium-term goals that include reducing flaring and greenhouse gas ("GHG" or "GHGs") emissions intensity, and maintaining low methane emissions intensity. Additionally, we are putting systems in place to track additional ESG metrics to enable increased reporting in the future and to increase employee awareness. The Environmental, Social and Governance Committee of our Board of Directors oversees, among other things, the development and implementation of the Company's ESG policies, programs and initiatives, and, together with management, reports to our Board of Directors regarding such matters. Further demonstrating our commitment to sustainable operations and environmental stewardship, compensation for our executives and eligible employees under our long-term incentive plan, and compensation for all employees under our short-term incentive plan is calculated based on, in part, certain Company-wide performance-based metrics that include key financial, operational, and environmental, health, and safety measures.

Significant Developments in 2021

Cash Flows and Debt Reduction. For the year ended December 31, 2021, net cash provided by operating activities was \$1.2 billion, which was in excess of net cash used in investing activities of \$667.2 million, resulting in a six percent decrease in the principal balance of our total outstanding long-term debt to \$2.1 billion as of December 31, 2021, from \$2.3 billion as of December 31, 2020. The decrease in the principal balance of our total outstanding long-term debt was primarily driven by a \$93.0 million decrease in the outstanding balance on our revolving credit facility, and the retirement of the remaining \$65.5 million of our 2021 Senior Secured Convertible Notes. Additionally, as of December 31, 2021, we had a cash and cash equivalents balance of \$33.7 million and no outstanding balance on our revolving credit facility. Please refer to Analysis of Cash Flow Changes Between 2021 and 2020 and Between 2020 and 2019in Overview of Liquidity and Capital Resourcesin Part II, Item 7, and to Note 5 – Long-Term Debt in Part II, Item 8 of this report for additional discussion, including the definition of 2021 Senior Secured Convertible Notes.

Production, Pricing, Revenue, and Commodity Derivatives. Our average net daily equivalent production in 2021 increased 11 percent compared with 2020 to 140.7 MBOE, consisting of 76.5 MBbl of oil, 296.9 MMcf of gas, and 14.7 MBbl of NGLs. This increase was primarily driven by a 19 percent increase from our Midland Basin assets and resulted from an increased number of completions, strong well performance, and our focus on operational execution. Oil production as a percentage of total production increased to 54 percent in 2021 from 50 percent in 2020. Realized prices before the effect of derivative settlements ("realized price" or "realized prices") for oil, gas, and NGLs increased 83 percent, 169 percent, and 141 percent, respectively, for the year ended December 31,

2021, compared with 2020. As a result of increased realized prices, oil, gas, and NGL production revenue increased 131 percent to \$2.6 billion for the year ended December 31, 2021, compared with \$1.1 billion for 2020. Oil production revenue was 73 percent and 76 percent of total production revenue for the years ended December 31, 2021, and 2020, respectively. We recorded a net derivative loss of \$901.7 million for the year ended December 31, 2021, compared to a net derivative gain of \$161.6 million for 2020. These amounts include a derivative settlement loss of \$749.0 million for the year ended December 31, 2021, and a derivative settlement gain of \$351.3 million for the year ended December 31, 2020. Please refer to *Areas of Operation* below and *Overview of the Company* in Part II, Item 7 of this report for additional discussion.

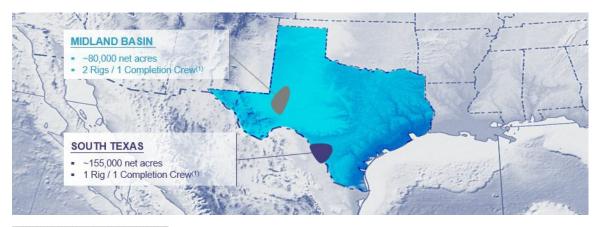
Reserves and Capital Investment. Total estimated proved reserves were 492.0 MMBOE as of December 31, 2021, which was an increase of 22 percent from 404.6 MMBOE as of December 31, 2020. We added 139.1 MMBOE through extensions and infill as a result of continued success in and further development of our Austin Chalk and Midland Basin assets, partially offset by 51.4 MMBOE of production during 2021. Our proved reserve life index increased to 9.6 years as of December 31, 2021, compared with 8.7 years as of December 31, 2020. Please refer to Areas of Operation and Reserves below for additional discussion regarding additions from extensions, discoveries, and infill, the removal of certain proved undeveloped reserve cases that are no longer within our development plan over the next five years, and price and performance revisions. Costs incurred increased 23 percent from 2020 to \$718.0 million in 2021. Please refer to Areas of Operation below, and to Supplemental Oil and Gas Information (unaudited) in Part II, Item 8 of this report for additional discussion.

Outlook

Our vision to sustainably grow value for all of our stakeholders includes short-term operational and financial goals of generating cash flows while strengthening our balance sheet through absolute debt reduction and improved leverage metrics, and increasing the value of our capital project inventory through exploration and development optimization. Our long-term plan is to deliver cash flow growth that is supported by our high-quality asset base and ability to generate favorable returns.

Our total 2022 capital program, which we expect to fund with cash flows from operations, is expected to be approximately \$750.0 million. We expect to focus our 2022 capital program on highly economic oil development projects in both our Midland Basin assets and our South Texas assets.

Areas of Operation



⁽¹⁾ As of December 31, 2021.

Our 2021 operations were concentrated in the Midland Basin and South Texas, as described below. The following table summarizes estimated proved reserves, net production volumes, and costs incurred for the year ended December 31, 2021, for these areas:

Mic	lland Basin		South Texas	Tota	al ⁽¹⁾
	156.7		42.9		199.5
	568.9		674.5		1,243.5
	0.1		85.1		85.2
	251.6		240.4		492.0
	51 %		49 %		100 %
	66 %		56 %		61 %
	25.2		2.7		27.9
	55.4		52.9		108.4
	_		5.4		5.4
	34.4		16.9		51.4
1)	94.4		46.4		140.7
	67 %		33 %		100 %
\$	433.8	\$	240.7	\$	718.0
		568.9 0.1 251.6 51 % 66 % 25.2 55.4 — 34.4 94.4 67 %	156.7 568.9 0.1 251.6 51 % 66 % 25.2 55.4 — 34.4 94.4 67 %	156.7 42.9 568.9 674.5 0.1 85.1 251.6 240.4 51 % 49 % 66 % 56 % 25.2 2.7 55.4 52.9 — 5.4 34.4 16.9 94.4 46.4 67 % 33 %	156.7 42.9 568.9 674.5 0.1 85.1 251.6 240.4 51 % 49 % 66 % 56 % 25.2 2.7 55.4 52.9 — 5.4 34.4 16.9 94.4 46.4 67 % 33 %

⁽¹⁾ Amounts may not calculate due to rounding.

Total estimated proved reserves at December 31, 2021, increased 22 percent from December 31, 2020. Total net equivalent production increased 11 percent for the year ended December 31, 2021, compared with 2020. Costs incurred for the year ended December 31, 2021, increased 23 percent compared with 2020, primarily as a result of the increase in our capital activity, specifically an increase related to the development of our South Texas assets.

Midland Basin. Our Midland Basin assets, which are located in the Permian Basin in West Texas, are comprised of approximately 80,000 net acres, and include our RockStar assets in Howard and Martin Counties, Texas and our Sweetie Peck assets in Upton and Midland Counties, Texas ("Midland Basin"). In 2021, drilling and completion activities within our RockStar and Sweetie Peck positions continued to focus primarily on development optimization and further delineating our Midland Basin position. Our current Midland Basin position provides substantial future development opportunities within multiple oil-rich intervals, including the Spraberry and Wolfcamp formations. We expect 2022 capital activity in the Midland Basin to be focused on highly economic oil development projects.

In 2021, costs incurred were \$433.8 million and we averaged three drilling rigs and two completion crews. We completed 97 gross (81 net) wells, and as of December 31, 2021, 30 gross (27 net) wells had been drilled but not completed. Net equivalent production for the year ended December 31, 2021, was 34.4 MMBOE, an 18 percent increase from 29.1 MMBOE for the year ended December 31, 2020. Estimated proved reserves increased 13 percent to 251.6 MMBOE at December 31, 2021, from 222.0 MMBOE at December 31, 2020, as a result of additions of 46.6 MMBOE and positive price and performance revisions of 29.6 MMBOE partially offset by production of 34.4 MMBOE. Additionally, we removed 11.8 MMBOE of proved undeveloped reserves which were replaced by recognizing additions to proved undeveloped reserves associated with different locations that were added to our five-year development plan. Additions to proved reserves primarily resulted from extensions and infill reserves replacing converted proved undeveloped reserves.

South Texas. Our South Texas assets are comprised of approximately 155,000 net acres located in Dimmit and Webb Counties, Texas ("South Texas"). In 2021, our operations in South Texas were focused on production from the Eagle Ford shale formation and Austin Chalk formation, and further development of the Austin Chalk formation. Our overlapping acreage position in the Maverick Basin covers a significant portion of the western Eagle Ford shale and Austin Chalk formations ("Maverick Basin") and includes acreage across the oil, gas-condensate, and dry gas windows with gas composition amenable to processing for NGL extraction. We expect 2022 capital activity in South Texas to be focused primarily on developing the Austin Chalk formation.

In 2021, costs incurred were \$240.7 million and we averaged one drilling rig and one completion crew. We completed 31 gross (28 net) wells, and as of December 31, 2021, 32 gross (32 net) wells had been drilled but not completed. Net equivalent production for the year ended December 31, 2021, was 16.9 MMBOE, a two percent decrease from 17.3 MMBOE for the year ended

Asset costs incurred do not sum to total costs incurred primarily due to corporate overhead charges incurred on exploration activities that are excluded from this table. Please refer to Costs Incurred in Supplemental Oil and Gas Information (unaudited) in Part II, Item 8 of this report.

December 31, 2020. Estimated proved reserves increased 32 percent to 240.4 MMBOE at December 31, 2021, from 182.6 MMBOE at December 31, 2020, as a result of additions of 92.5 MMBOE and positive price revisions of 29.0 MMBOE offset by production of 16.9 MMBOE and downward revisions of 46.8 MMBOE. Additions to proved reserves from extensions and infill were the result of continued success in our development of the Austin Chalk formation. Downward revisions consisted of 28.7 MMBOE of proved undeveloped reserves which were replaced by recognizing additions to proved undeveloped reserves associated with different locations that were added to our five-year development plan, and 18.1 MMBOE resulting from performance revisions.

Office Space. As of December 31, 2021, we leased and owned office space as summarized in the table below:

	Approximate Square Footage Leased	Approximate Square Footage Owned
Corporate (1)	164,000	_
Midland Basin	59,000	_
South Texas (2)	62,000	12,000
Total	285,000	12,000

- (1) We expect to reduce our Corporate leased office space to approximately 59,000 square feet in 2022.
- ²⁾ Subsequent to December 31, 2021, the square footage leased in South Texas was reduced to approximately 21,000 square feet.

Reserves

Reserve estimates are inherently imprecise and estimates for new discoveries and undeveloped locations are more imprecise than reserve estimates for producing oil and gas properties. Accordingly, we expect these estimates to change as new information becomes available. The following table presents the standardized measure of discounted future net cash flows and PV-10. PV-10 is a non-GAAP financial measure, and generally differs from the standardized measure of discounted future net cash flows, the most directly comparable GAAP financial measure, because it does not include the effects of income taxes on future net revenues. Neither the standardized measure of discounted future net cash flows nor PV-10 represents the fair market value of our oil and gas properties. We and others in the oil and gas industry use PV-10 as a measure to compare the relative size and value of proved reserves held without regard to the specific tax characteristics of such entities. Please refer to the *Glossary* section of this report for additional information regarding these measures and refer to the reconciliation of the standardized measure of discounted future net cash flows to PV-10 set forth below. The actual quantities and present value of our estimated proved reserves may be more or less than we have estimated. No estimates of our proved reserves have been filed with or included in reports to any federal authority or agency, other than the SEC, since the beginning of the last fiscal year. The following table should be read along with the *Risk Factors* section below.

The following table summarizes estimated proved reserves, the standardized measure of discounted future net cash flows (GAAP), PV-10 (non-GAAP), the prices used in the calculation of proved reserves estimates, and reserve life index as of December 31, 2021, 2020, and 2019:

	As of December 31,					
		2021		2020		2019
Reserve volumes:	-					
Proved developed						
Oil (MMBbl)		110.7		89.8		85.0
Gas (Bcf)		833.0		643.9		712.1
NGLs (MMBbl)		50.7		32.1		43.4
MMBOE (1)		300.2		229.3		247.0
Proved undeveloped						
Oil (MMBbl)		88.8		82.9		99.1
Gas (Bcf)		410.4		408.1		511.1
NGLs (MMBbl)		34.5		24.4		30.6
MMBOE (1)		191.8		175.3		214.9
Total proved (1)						
Oil (MMBbl)		199.5		172.7		184.1
Gas (Bcf)		1,243.5		1,052.0		1,223.2
NGLs (MMBbl)		85.2		56.6		74.0
MMBOE		492.0		404.6		462.0
Proved developed reserves percentage		61 %	,	57 %		53 %
Proved undeveloped reserves percentage		39 %)	43 %		47 %
Reserve data (in millions):						
Standardized measure of discounted future net cash flows (GAAP)	\$	6,962.6	\$	2,682.5	\$	4,104.0
PV-10 (non-GAAP):						
Proved developed PV-10	\$	5,407.2	\$	1,848.8	\$	2,830.4
Proved undeveloped PV-10		2,751.4		833.7		1,532.4
Total proved PV-10 (non-GAAP)	\$	8,158.6	\$	2,682.5	\$	4,362.8
12-month trailing average prices: (2)						
Oil (per Bbl)	\$	66.56	\$	39.57	\$	55.69
Gas (per MMBtu)	\$	3.60	\$	1.99	\$	2.58
NGLs (per Bbl)	\$	36.60	\$	17.64	\$	22.68
Reserve life index (years) (3)		9.6		8.7		9.6

Amounts may not calculate due to rounding.

The prices used in the calculation of proved reserve estimates reflect the unweighted arithmetic average of the first-day-of-the-month price of each month within the trailing 12-month period in accordance with SEC rules. We then adjust these prices to reflect appropriate quality and location differentials over the period in estimating our proved

Our ability to replace production with new oil and gas reserves is critical to the future success of our business. Please refer to the reserve life index term in the Glossary section of this report for information describing how this metric is calculated.

The following table reconciles the standardized measure of discounted future net cash flows (GAAP) to the PV-10 (non-GAAP) of total estimated proved reserves. Please refer to the *Glossary* section of this report for the definitions of standardized measure of discounted future net cash flows and PV-10.

	As of December 31,					
	2021		2020			2019
				(in millions)		
Standardized measure of discounted future net cash flows (GAAP)	\$	6,962.6	\$	2,682.5	\$	4,104.0
Add: 10 percent annual discount, net of income taxes		4,844.9		1,856.3		2,955.3
Add: future undiscounted income taxes		2,130.3		_		579.8
Pre-tax undiscounted future net cash flows		13,937.8		4,538.8		7,639.1
Less: 10 percent annual discount without tax effect		(5,779.2)		(1,856.3)		(3,276.3)
PV-10 (non-GAAP)	\$	8,158.6	\$	2,682.5	\$	4,362.8

Proved Undeveloped Reserves

Proved undeveloped reserves include those reserves that are expected to be recovered from future wells on undrilled acreage, or from existing wells where a relatively major expenditure is required for recompletion. Undeveloped reserves may be classified as proved reserves on undrilled acreage directly offsetting development areas that are reasonably certain of economic producibility when drilled or where reliable technology provides reasonable certainty of economic producibility. Undrilled locations may be classified as having proved undeveloped reserves only if a development plan has been adopted indicating that they are scheduled to be drilled within five years, unless specific circumstances justify a longer time. As of December 31, 2021, we did not have any proved undeveloped reserves that had been on our books in excess of five years, and none of our proved undeveloped reserves were on acreage expected to expire or on acreage that was not expected to be held through renewal before the targeted completion date.

For proved undeveloped locations that are more than one development spacing area from developed producing locations, we utilized reliable geologic and engineering technology when booking estimated proved undeveloped reserves. Of the 191.8 MMBOE of total proved undeveloped reserves as of December 31, 2021, approximately 29.0 MMBOE of proved undeveloped reserves in the Midland Basin and 68.7 MMBOE of proved undeveloped reserves in our South Texas position were offset by more than one development spacing area from the nearest developed producing location. We incorporated public and proprietary data from multiple sources to establish geologic continuity of each formation and their producing properties. This included seismic data and interpretations (3-D and micro seismic), open hole log information (both vertically and horizontally collected) and petrophysical analysis of that log data, mud logs, gas sample analysis, measurements of total organic content, thermal maturity, test production, fluid properties, and core data as well as statistical performance data yielding predictable and repeatable reserve estimates within certain analogous areas. These locations were limited to only those areas where both established geologic consistency and sufficient statistical performance data could be demonstrated to provide reasonably certain results.

As of December 31, 2021, estimated proved undeveloped reserves increased 16.5 MMBOE, or nine percent compared with December 31, 2020. The following table provides a reconciliation of our proved undeveloped reserves for the year ended December 31, 2021:

	Total (MMBOE)
Total proved undeveloped reserves:	
Beginning of year	175.3
Additions from extensions, discoveries, and infill	125.2
Conversions to proved developed	(66.0)
Removed for five-year rule	(40.6)
Revisions of previous estimates	(2.1)
End of year	191.8

Additions from extensions, discoveries, and infill. During 2021, we added 81.0 MMBOE and 44.2 MMBOE of estimated proved undeveloped reserves in South Texas and the Midland Basin, respectively. The majority of the additions in South Texas resulted from extensions from our continued success in, and further development of, the Austin Chalk formation, while the majority of the additions in the Midland Basin resulted from infill development.

Conversions to proved developed. Our 2021 conversion rate was 38 percent and was primarily the result of developing proved reserves in our Austin Chalk and Midland Basin assets. During 2021, we incurred \$448.7 million on projects with reserves

booked as proved undeveloped at the end of 2020, of which \$396.0 million was spent on converting proved undeveloped reserves to proved developed reserves by December 31, 2021. At December 31, 2021, drilled but not completed wells represented 32.3 MMBOE of total estimated proved undeveloped reserves. We expect to incur \$124.5 million of capital expenditures in completing these drilled but not completed wells, and we expect all estimated proved undeveloped reserves to be converted to proved developed reserves within five years from their initial booking as proved undeveloped reserves.

Removed for five-year rule. As a result of our testing and delineation efforts in 2021, we revised certain aspects of our future development plan to focus on maximizing returns and the value of our assets. As a result, we removed 40.6 MMBOE of estimated proved undeveloped reserves and reclassified these locations to unproved reserve categories, of which 27.0 MMBOE related to our Eagle Ford shale proved undeveloped reserves and reflects our continued shift to further develop the Austin Chalk formation, and 11.8 MMBOE related to optimization in our future development plan for our Midland Basin program. The Eagle Ford shale future development locations were replaced by Austin Chalk locations which are reflected as additions from extensions, discoveries, and infill.

As of December 31, 2021, estimated future development costs relating to our proved undeveloped reserves totaled \$1.4 billion, and we expect to incur approximately \$481.8 million, \$336.8 million, and \$364.5 million in 2022, 2023, and 2024, respectively.

Internal Controls Over Proved Reserves Estimates

Our internal controls over the recording of proved reserves are structured to objectively and accurately estimate our reserve quantities and values in compliance with the SEC's regulations. Our process for managing and monitoring our proved reserves is delegated to our corporate reserves group and is coordinated by our Corporate Engineering Manager, subject to the oversight of our management and the Audit Committee of our Board of Directors, as discussed below. Our Corporate Engineering Manager has worked in the energy industry since 2008 and has been employed by the Company since 2010. He holds a Bachelor of Science Degree in Petroleum Engineering from Montana Technological University and is a Registered Professional Petroleum Engineer in the states of Texas, Wyoming, and Montana. He is also a member of the Society of Petroleum Engineers. Technical, geological, and engineering reviews of our assets are performed throughout the year by our staff. Data obtained from these reviews, in conjunction with economic data and our ownership information, is used in making a determination of estimated proved reserve quantities. Our asset team's engineering technical staff do not report directly to our Corporate Engineering Manager; they report to either their respective asset technical managers or directly to the Senior Vice President of Exploration, Development and EHS. This design is intended to promote objective and independent analysis within our asset teams in the proved reserves estimation process.

Third-party Reserves Audit

Ryder Scott is an independent petroleum engineering consulting firm that has been providing petroleum engineering consulting services throughout the world for over 80 years. Ryder Scott performed an independent audit using its own engineering assumptions, but with economic and ownership data we provided. Ryder Scott audits a minimum of 80 percent of our total calculated proved reserve PV-10. In the aggregate, the proved reserve amounts of our audited properties determined by Ryder Scott are required, per our policy, to be within 10 percent of our proved reserve amounts for the total Company, as well as for each respective major asset. The technical engineer at Ryder Scott primarily responsible for overseeing our reserves audit was a Managing Senior Vice President who received a Bachelor of Science degree in Chemical Engineering from Brigham Young University in 2003. He is a licensed Professional Engineer in the State of Texas and a member of the Society of Petroleum Engineers. The 2021 Ryder Scott audit report is included as Exhibit 99.1.

In addition to a third-party audit, our reserves are reviewed by our management with the Audit Committee of our Board of Directors. Our management, which includes our President and Chief Executive Officer, Executive Vice President and Chief Financial Officer, and Senior Vice President of Exploration, Development and EHS, is responsible for reviewing and verifying that the estimate of proved reserves is reasonable, complete, and accurate. The Audit Committee reviews a summary of the final reserves estimate in conjunction with Ryder Scott's results and also meets with Ryder Scott representatives, separate from our management, from time to time to discuss processes and findings.

Production

The following table summarizes our net production volumes and realized prices for oil, gas, and NGLs produced and sold during the periods presented. Realized prices presented below exclude the effects of derivative contract settlements. Also presented is a summary of related production expense on a per BOE basis.

		For the Years Ended December 31,					
		2021		2020		2019	
Net production volumes							
Oil (MMBbl)		27.9		23.0		21.9	
Gas (Bcf)		108.4		103.9		109.8	
NGLs (MMBbl)		5.4		6.1		8.1	
Equivalent (MMBOE) (1)		51.4		46.4		48.3	
Midland Basin net production volumes (2)	·						
Oil (MMBbl)		25.2		21.3		20.5	
Gas (Bcf)		55.4		46.6		34.4	
NGLs (MMBbl)						_	
Equivalent (MMBOE) (1)		34.4		29.1		26.3	
Maverick Basin net production volumes (2)	·						
Oil (MMBbl)		2.7		1.7		1.3	
Gas (Bcf)		52.8		57.2		75.4	
NGLs (MMBbl)		5.4		6.1		8.1	
Equivalent (MMBOE) (1)		16.9		17.3		21.9	
Realized price							
Oil (per Bbl)	\$	67.72	\$	37.08	\$	54.10	
Gas (per Mcf)	\$	4.85	\$	1.80	\$	2.39	
NGLs (per Bbl)	\$	33.67	\$	13.96	\$	17.26	
Per BOE	\$	50.58	\$	24.26	\$	32.84	
Production expense per BOE							
Lease operating expense	\$	4.39	\$	3.97	\$	4.67	
Transportation costs	\$	2.71	\$	3.06	\$	3.88	
Production taxes	\$	2.36	\$	0.99	\$	1.35	
Ad valorem tax expense	\$	0.38	\$	0.41	\$	0.48	

Productive Wells

As of December 31, 2021, we had working interests in 825 gross (743 net) productive oil wells and 483 gross (449 net) productive gas wells. Productive wells may be temporarily shut-in. Multiple completions in the same wellbore are counted as one well, and as of December 31, 2021, two of these wells had multiple completions. A well is categorized under state reporting regulations as an oil well or a gas well based on the ratio of gas to oil when it first commenced production, but such designation may not be indicative of current or future production composition.

Amounts may not calculate due to rounding.

For each of the years ended December 31, 2021, 2020, and 2019, total estimated proved reserves attributed to our Midland Basin field and our Maverick Basin field exceeded 15 percent of our total estimated proved reserves expressed on an equivalent basis.

Drilling and Completion Activity

All of our drilling and completion activities are conducted by independent contractors using equipment they own and operate. The following table summarizes the number of operated and outside-operated wells drilled and completed or recompleted on our properties in 2021, 2020, and 2019, excluding non-consented projects, active injector wells, saltwater disposal wells, or wells in which we own only a royalty interest:

		For the Years Ended December 31,									
	202	2021		20	2019						
	Gross		Gross	Net	Gross	Net					
Development wells											
Oil	107	91	78	71	119	107					
Gas	11	8	_	_	27	16					
Non-productive	_	_	_	_	1	1					
	118	99	78	71	147	124					
Exploratory wells											
Oil	2	2	5	5	4	4					
Gas	8	8	1	1	4	4					
Non-productive					1_	1					
	10	10	6	6	9	9					
Total	128	109	84	77	156	133					

Note: The number of wells drilled refers to the number of wells completed at any time during the respective year, regardless of when drilling was initiated.

In addition to the wells drilled and completed in 2021 (included in the table above), we were actively participating in the drilling of seven gross (seven net) wells and had 63 gross (59 net) drilled but not completed wells as of January 31, 2022. Drilled but not completed wells as of January 31, 2022, represent wells that were being completed or were waiting on completion. The drilled but not completed well count as of January 31, 2022, includes 11 gross (11 net) wells that are not included in our five-year development plan, 10 of which are in the Eagle Ford shale.

Title to Properties

As of December 31, 2021, over 98 percent of our operated oil and gas producing assets are located on private lands, are held pursuant to oil and gas leases from private mineral owners, and are not located on federal lands or leased from the federal government. The remainder of our operated oil and gas producing assets are located on Texas state lands. We have obtained title opinions or have conducted other title review on substantially all of our producing properties and believe we have satisfactory title to such properties. We obtain new or updated title opinions prior to commencing initial drilling operations on the properties that we operate. Most of our producing properties are subject to mortgages securing indebtedness under our Credit Agreement and Senior Secured Notes, as defined in *Note* 5 – *Long-Term Debt* in Part II, Item 8 of this report, royalty and overriding royalty interests, liens for current taxes, and other ordinary course burdens that we believe do not materially interfere with the development of such properties. We typically perform title investigations in accordance with standards generally accepted in the oil and gas industry before acquiring developed and undeveloped leasehold acreage.

Acreage

The following table sets forth the number of gross and net surface acres of developed and undeveloped oil and gas leasehold, fee properties, and mineral servitudes that we held as of December 31, 2021.

	Developed a	d Acres ⁽¹⁾ Undeveloped		Acres (2)(3)	Tot	al
	Gross	Net	Gross	Net	Gross	Net
Midland Basin:				_		
RockStar	67,528	61,510	2,802	2,019	70,330	63,529
Sweetie Peck	19,308	16,125	2,242	340	21,550	16,465
Midland Basin Total (4)	86,836	77,635	5,044	2,359	91,880	79,994
South Texas	80,101	79,708	78,340	75,355	158,441	155,063
Other (5)	16,259	11,363	89,691	25,306	105,950	36,669
Total	183,196	168,706	173,075	103,020	356,271	271,726

⁽¹⁾ Developed acreage is acreage assigned to producing wells for the state approved spacing unit for the producing formation. Our developed acreage that includes multiple formations with different well spacing requirements may be considered undeveloped for certain formations but has been included only as developed acreage in the table above.

(2) Undeveloped acreage is acreage on which wells have not been drilled or completed to a point that would permit the production of commercial quantities of oil, gas, and/or NGLs regardless of whether such acreage contains estimated net proved reserves.

- (4) As of December 31, 2021, total Midland Basin acreage excludes approximately 1,523 net acres associated with drill-to-earn opportunities that we intend to pursue.
- (5) Includes other non-core acreage located in Colorado, Louisiana, Montana, North Dakota, Texas, Utah, and Wyoming.

Delivery Commitments

For gathering, processing, transportation throughput, and delivery commitments, please refer to Pipeline Transportation Commitments within Note 6 – Commitments and Contingencies in Part II, Item 8 of this report.

Major Customers

For major customers and entities under common control that accounted for 10 percent or more of our total oil, gas, and NGL production revenue for at least one of the years ended December 31, 2021, 2020, and 2019, please refer to Concentration of Credit Risk and Major Customers within Note 1 – Summary of Significant Accounting Policies in Part II, Item 8 of this report.

Human Capital

Our Company culture, which seeks to recognize our employees as our most valuable asset, drives the manner in which we pursue our short-term and long-term goals, as well as our efforts to attract and retain talent. Through our culture, we work to promote:

- · integrity and ethical behavior in the conduct of our business;
- environmental, health, and safety priorities;
- · prioritizing the success of others and the team;
- · understanding and communicating why we do what we do and how every employee contributes to achieving success;
- · collaboration and openness to new ideas and technologies that serve business improvement;
- support for team members' professional and personal development; and
- · support for the communities where we live and work.

The core values of integrity and ethical behavior are the pillars of our culture, and as a result, the health and safety of our employees and contractors is our highest priority. All employees are responsible for upholding Company-wide standards and values. We have many long-standing policies designed to promote ethical conduct and integrity, that employees are required to read and

⁽³⁾ As of February 10, 2022, none of our undeveloped acreage is scheduled to expire by December 31, 2022, and 82 and 564 net acres of undeveloped acreage are scheduled to expire by December 31, 2023, and 2024, respectively, unless production is established or we take other action to extend the terms of the applicable leases. Certain of our acreage, primarily in South Texas, is subject to lease consolidation agreements containing drilling, completion, and other obligations that we currently intend to satisfy. Failure to meet these obligations results in payments to lessors, or termination of the lease consolidation agreements, which could result in additional future lease expirations if continuous development obligations required by individual leases are not met.

acknowledge on an annual basis. Employees are consistently provided training opportunities to develop skills in leadership, safety, and technical acumen, which help strengthen our efforts in conducting business with high ethical standards.

We strive to provide competitive, performance-based compensation and benefits to our employees, including market-competitive pay, short-term and long-term incentive compensation plans, an employee stock purchase program, and various healthcare, retirement, and other benefit packages such as a hybrid work environment that is guided by each employee's job function and responsibilities. Compensation for our executives and employees under our short-term and long-term incentive plans is determined based on individual performance and Company performance with respect to qualitative and quantitative metrics that include environmental, health, and safety measures. The Compensation Committee of our Board of Directors oversees our compensation programs and regularly modifies program design to incentivize achievement of our corporate strategy and the matters of importance to our stakeholders. Significant planning for succession of key personnel is performed each year, or more frequently as deemed necessary by management.

We believe that our relationship with our employees is strong. As of February 10, 2022, we had 506 full-time employees, none of whom were subject to a collective bargaining agreement. We are committed to diversity at all levels of our organization and we strive to provide equal employment opportunities to all employees and job applicants. On an annual basis, we retain a third party to analyze our workforce demographics and conduct discrimination and pay equity testing. No discriminatory practices have been identified and no evidence of discrimination or pay inequity has been found. Additionally, we have established procedures and controls designed to support our objective of remaining, at all times, in material compliance with federal, state, and local laws and governmental regulations.

The following charts present certain Board of Directors and workforce metrics as of December 31, 2021:



⁽¹⁾ Ethnic diversity data is determined under guidelines set forth by the United States Equal Employment Opportunity Commission and includes employees in the following categories: American Indian or Alaska Native, Asian, Black or African American, Hispanic or Latino, or the combination of two or more races (not Hispanic or Latino).

Seasonality

The price of crude oil is primarily driven by global socioeconomic factors and is less affected by seasonal fluctuations; however, demand for energy is generally higher in the winter and in the summer driving season. The demand and price for gas frequently increases during winter months and decreases during summer months. To lessen the impact of seasonal gas demand and

⁽²⁾ Includes officers at the level of Vice President and above.

price fluctuations, pipelines, utilities, local distribution companies, and industrial users regularly utilize gas storage facilities and forward purchase some of their anticipated winter requirements during the summer. However, increased summertime demand for electricity can divert gas that is traditionally placed into storage which, in turn, may increase the typical winter seasonal price. Seasonal anomalies, such as mild winters, or other unexpected impacts, such as the Pandemic, sometimes lessen or exacerbate these fluctuations.

Certain of our drilling, completion, and other operations are also subject to seasonal limitations. Seasonal weather conditions, government regulations, and lease stipulations could adversely affect our ability to conduct drilling activities in some of the areas where we operate. Please refer to Risk Factors in Part I, Item 1A of this report for additional discussion.

Competition

The oil and gas industry is intensely competitive, particularly with respect to acquiring prospective oil and gas properties. We believe our acreage positions provide a foundation for development activities that we expect to fuel our future growth. Our competitive position also depends on our geological, geophysical, and engineering expertise, as well as our financial resources. We believe the location of our acreage; our exploration, drilling, operational, and production expertise; available technologies; our financial resources and expertise; and the experience and knowledge of our management and technical teams enable us to compete in our core operating areas. However, we face intense competition from many major and independent oil and gas companies, which in some cases have larger technical teams and greater financial and operational resources than we do. Many of these companies not only engage in the acquisition, exploration, development, and production of oil and gas reserves, but also have gathering, processing or refining operations, market refined products, provide, dispose of and transport fresh and produced water, own drilling rigs or production equipment, or generate electricity, all of which, individually or in the aggregate, could provide such companies with a competitive advantage.

We also compete with other oil and gas companies in securing drilling rigs and other equipment and services necessary for the drilling, completion, and maintenance of wells, as well as for the gathering, transporting, and processing of oil, gas, NGLs, and water. Consequently, we may face shortages, delays, or increased costs in securing these services from time to time. The oil and gas industry also faces competition from alternative fuel sources, including renewable energy sources such as solar and wind-generated energy, and other fossil fuels such as coal. Competitive conditions may be affected by future energy, environmental, climate-related, financial, or other policies, legislation, and regulations.

In addition, we compete for people, including experienced geologists, geophysicists, engineers, and other professionals. Throughout the oil and gas industry, the need to attract and retain talented people has grown at a time when the availability of individuals with these skills is becoming more limited due to the evolving demographics of our industry. We are not insulated from competition for quality people, and we must compete effectively to be successful. Please refer to *Human Capital* above and *Risk Factors* in Part I, Item 1A of this report for additional discussion.

Government Regulations

Although our regulatory compliance obligations are mitigated by the fact that we do not own or operate oil and gas properties on federal lands, nearly every aspect of our business is subject to expansive federal, state, and local laws and governmental regulations. These laws and regulations frequently change in response to economic or political conditions, or other developments, and our regulatory burden may increase in the future. Laws and regulations have the potential to increase our cost of conducting business and consequently could affect our profitability.

Energy Regulations

Texas, the state where we conduct operations and lease or own nearly all of our oil and gas assets, has adopted laws and regulations governing the exploration for and production of oil, gas, and NGLs, including laws and regulations requiring permits for the drilling of wells, imposing bond requirements in order to drill or operate wells, governing the timing of drilling and location of wells, the method of drilling and casing wells, the surface use and restoration of properties upon which wells are drilled, and the plugging and abandonment of wells. Our operations are also subject to Texas conservation laws and regulations, including regulations governing the size of drilling and sacring units or proration units, the number of wells that may be drilled in an area, the spacing of wells, and the unitization or pooling of oil and gas properties. In addition, Texas conservation laws establish maximum rates of production from oil and gas wells, generally limit or prohibit the venting or flaring of gas, and may impose certain requirements regarding the ratability or fair apportionment of production from fields and individual wells.

Our sales of gas are affected by the availability, terms, and cost of gas pipeline transportation. The Federal Energy Regulatory Commission ("FERC") has jurisdiction over the transportation and sale for resale of gas in interstate commerce. FERC's current regulatory framework generally provides for a competitive and open access market for sales and transportation of gas. However, FERC regulations continue to affect the midstream and transportation segments of the industry, and thus can indirectly affect the sales prices we receive for gas production.

Environmental, Health, and Safety Matters

General. Our operations are subject to stringent and complex federal, state, and local laws and regulations governing protection of the environment and worker health and safety, as well as the discharge of materials and emissions into the environment. These laws and regulations may, among other things:

- · require the acquisition of various permits before drilling commences;
- restrict the types, quantities, and concentration of various substances and emissions that may be released into the environment in connection with oil and gas drilling and production and saltwater disposal activities;
- limit or prohibit drilling activities on certain lands lying within wilderness, wetlands, and other protected areas, including areas containing certain wildlife or threatened and endangered plant and animal species; and
- · require remedial measures to mitigate pollution from former and ongoing operations, such as closing pits and plugging abandoned wells.

These laws, rules, and regulations may also restrict the rate of oil and gas production below the rate that would otherwise be possible. The regulatory burden on the oil and gas industry increases the cost of conducting business and consequently affects profitability. Additionally, environmental laws and regulations are revised frequently, and any changes may result in more stringent, or different permitting, waste handling, disposal, and cleanup requirements for the oil and gas industry and could have a significant impact on our operating costs.

The following is a summary of some of the existing laws, rules, and regulations to which our business is subject.

Waste handling. The Resource Conservation and Recovery Act ("RCRA") and comparable state statutes regulate the generation, transportation, treatment, storage, disposal, and cleanup of hazardous and non-hazardous wastes. Under the auspices of the United States Environmental Protection Agency ("EPA"), individual states administer some or all of the provisions of RCRA, sometimes in conjunction with their own, more stringent requirements. Drilling fluids, produced water, and most of the other wastes associated with the exploration, development, and production of oil or gas are currently regulated under RCRA's non-hazardous waste provisions. However, it is possible that certain oil and gas exploration and production wastes now classified as non-hazardous could be classified as hazardous wastes in the future. Any such change could result in an increase in our costs to manage and dispose of wastes, which could have a material adverse effect on our results of operations and financial position.

Comprehensive Environmental Response, Compensation, and Liability Act. The Comprehensive Environmental Response, Compensation, and Liability Act ("CERCLA"), also known as the Superfund law, imposes joint and several liability, without regard to fault or legality of conduct, on classes of persons who are considered to be responsible for the release or threatened release of a hazardous substance into the environment. These persons include the owner or operator of the site where the release occurred, and anyone who disposed or arranged for the disposal of, or transported, a hazardous substance released at the site. Under CERCLA, such persons may be subject to joint and several liability for the costs of cleaning up the hazardous substances that have been released into the environment, for damages to natural resources and for the costs of environmental investigation and certain health studies. In addition, it is not uncommon for third-parties to file claims for personal injury and property damage allegedly caused by the hazardous substances released into the environment.

We currently own, lease, or operate numerous properties that have been used for oil and gas exploration and production for many years. CERCLA excludes petroleum and natural gas from its definition of hazardous substances, and although we believe we have utilized operating and waste disposal practices that were standard in the industry at the time, hazardous substances or wastes may have been released on or under the properties owned or leased by us, or on or under other locations, including off-site locations, where such substances have been taken for disposal. In addition, some of our properties have been operated by third-parties or by previous owners or operators whose treatment and disposal of hazardous substances, wastes, or hydrocarbons were not under our control. These properties, and the substances disposed or released on them, may be subject to CERCLA, RCRA, and analogous state laws. Under such laws, we could be required to remove previously disposed substances and wastes, pay fines, remediate contaminated property, or perform remedial operations to prevent future contamination.

Water discharges. The federal Water Pollution Control Act ("Clean Water Act") 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 and states. The discharge of pollutants into regulated waters is prohibited, except in accordance with the terms of a permit issued by the EPA, or analogous state agencies. This includes the discharge of certain storm water without a permit which requires periodic monitoring and sampling. In addition, the Clean Water Act regulates wastewater generated by unconventional oil and gas operations during the hydraulic fracturing process and discharged to publicly-owned wastewater treatment facilities. The Clean Water Act also prohibits discharge of dredged or fill material into waters of the United States, including wetlands, except in accordance with the terms of a permit issued by the United States Army Corps of Engineers, or a state, if the state has assumed authority to issue such permits. Federal and state regulatory agencies can impose administrative, civil, and criminal penalties for non-compliance with discharge permits or other requirements of the Clean Water Act and analogous state laws and regulations.

The Oil Pollution Act of 1990 ("OPA") addresses prevention, containment and cleanup, and liability associated with oil pollution. OPA applies to vessels, offshore platforms, and onshore facilities. OPA subjects owners of such facilities to strict liability for containment and removal costs, natural resource damages, and certain other consequences of oil spills into jurisdictional waters. Any unpermitted release of petroleum or other pollutants from our operations could result in governmental penalties and civil liability.

Air emissions. The federal Clean Air Act ("CAA") and comparable state laws and regulations regulate emissions of various air pollutants through air emissions permitting programs and the imposition of other requirements, such as requirements for emission reduction, capture and control. In addition, the EPA has developed, and continues to develop, stringent regulations governing emissions of hazardous air pollutants at specified sources. Federal and state regulatory agencies can impose administrative, civil, and criminal penalties for non-compliance with air permits or other requirements of the CAA and associated state laws and regulations. Please refer to the Environmental section in Part II. Item 7 of this report for additional information about the regulation of air emissions from the oil and gas sector.

Climate change. In December 2009, the EPA determined that emissions of carbon dioxide, methane, and other GHGs endanger public health and welfare, and as a result, began adopting and implementing a comprehensive suite of regulations to restrict emissions of GHGs under existing provisions of the CAA. While President Trump's administration had taken steps to rescind or review many of these regulations, President Biden's administration has actively been reviewing those actions and taking steps to strengthen and expand the regulations, specifically targeting, among other things, the regulation of methane emissions from the oil and gas sector. Legislative and regulatory initiatives related to climate change could have an adverse effect on our operations and the demand for oil and gas. Please refer to Risk Factors - Risks Related to Oil and Gas Operations and the Industry - Legislative and regulatory initiatives and litigation related to global warming and climate change could have an adverse effect on our operations and the demand for oil, gas, and NGLs in Part I, Item 1A of this report. In addition to the effects of regulation, the meteorological and physical effects of global climate change could pose additional risks to our operations, including physical damage risks associated with more frequent, more intensive storms, flooding, and wildfires, and could adversely affect the demand for our products.

Endangered species. The federal Endangered Species Act and analogous state laws regulate activities that could have an adverse effect on threatened or endangered species. Some of our operations are conducted in areas where protected species are known to exist. In these areas, we may be obligated to develop and implement plans to avoid potential adverse impacts on protected species, and we may be prohibited from conducting operations in certain locations or during certain seasons, such as breeding and nesting seasons, when our operations could have an adverse effect on these species. It is also possible that a federal or state agency could order a complete halt to activities in certain locations if it is determined that such activities may have a serious adverse effect on a protected species. The presence of a protected species in areas where we perform drilling, completion, and production activities could impair our ability to timely complete well drilling and development and could adversely affect our future production from those areas.

OSHA and other laws and regulations. We are subject to the requirements of the federal Occupational Safety and Health Act ("OSHA") and comparable state statutes. The OSHA hazard communication standard, the EPA community right-to-know regulations under Title III of CERCLA and similar state statutes require that we organize and/or disclose information about hazardous materials used or produced in our operations. Also, pursuant to OSHA, the Occupational Safety and Health Administration has established a variety of standards relating to workplace exposure to hazardous substances and employee health and safety. We believe we are in substantial compliance with the applicable requirements of OSHA and comparable laws.

Hydraulic fracturing. Hydraulic fracturing is an important and common practice used to stimulate production of hydrocarbons from tight shale formations. We routinely utilize hydraulic fracturing techniques in most of our drilling and completion programs. The process involves the injection of water, sand, and chemicals under pressure into the formation to fracture the surrounding rock and stimulate production. The process is typically regulated by state oil and gas commissions. However, even on private lands, the EPA has asserted federal regulatory authority over hydraulic fracturing involving diesel additives under the Safe Drinking Water Act's Underground Injection Control Program. The federal Safe Drinking Water Act protects the quality of the nation's public drinking water through the adoption of drinking water standards and controlling the injection of waste fluids, including saltwater disposal fluids, into below-ground formations that may adversely affect drinking water sources.

Increased regulation and scrutiny on oil and gas activities involving hydraulic fracturing techniques could potentially lead to a decrease in the completion of new oil and gas wells, an increase in compliance costs, delays, and changes in federal income tax laws, all of which could adversely affect our financial position, results of operations, and cash flows. As new laws or regulations that significantly restrict hydraulic fracturing are adopted at the state and local levels, such laws could make it more difficult or costly for us to perform fracturing to stimulate production from tight formations. In addition, if hydraulic fracturing becomes regulated at the federal level as a result of federal legislation or regulatory initiatives by the EPA or other federal agencies, our fracturing activities could become subject to additional permitting requirements, which could result in additional permitting delays and potential increases in costs. Restrictions on hydraulic fracturing could also reduce the amount of oil and gas that we are ultimately able to produce from our reserves.

We believe the trend in local, state, and federal environmental legislation and regulation will continue toward stricter standards, particularly under President Biden's administration. While we believe we are in substantial compliance with existing environmental laws and regulations applicable to our current operations and that our continued compliance with existing requirements will not have a

material adverse impact on our financial condition and results of operations, we cannot give any assurance that we will not be adversely affected in the future.

Environmental, Health, and Safety Initiatives. We are committed to exceptional safety, health, and environmental stewardship; making a positive difference in the communities where we live and work; and transparency in reporting our progress in these areas. We set annual goals for our safety, health, and environmental program focused on reducing the number of safety related incidents and the number and impact of spills of produced fluids. In addition, we set annual goals for GHG emissions intensity and methane emissions as a percentage of total methane produced, and as part of our current ESG initiatives, we have set near-term and medium-term goals that include reducing flaring and GHG emissions intensity, and maintaining low methane emissions intensity. We also periodically conduct audits of our operations to ensure regulatory compliance and we strive to provide appropriate training for our employees. Reducing air emissions as a result of leaks, venting, or flaring of gas during operations has become a major focus area as we consider this a best practice and seek to comply with regulations. While flaring is sometimes necessary, reducing these volumes is a priority for us. To avoid flaring when possible, we restrict testing periods and connect our production to gas pipeline infrastructure as quickly as possible after well completions. We have incurred in the past, and expect to incur in the future, capital costs related to environmental compliance. Such expenditures are included within our overall capital budget and are not separately itemized.

Available Information

Our internet website address is www.sm-energy.com. We routinely post important information for investors on our website. Within our website's investor relations section, we make available free of charge our annual report on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, and amendments to those reports filed with or furnished to the SEC under applicable securities laws. These materials are made available as soon as reasonably practical after we electronically file such materials with or furnish such materials to the SEC, and can also be located at www.sec.gov. We also make available through our website our Corporate Governance Guidelines, Code of Business Conduct and Conflict of Interest Policy, Financial Code of Ethics, and the Charters of the Audit, Compensation, Executive, and Environmental, Social and Governance committees of our Board of Directors. Information on our website is not incorporated by reference into this report and should not be considered part of this document.

ITEM 1A. RISK FACTORS

In addition to the other information included in this report, the following risk factors should be carefully considered when evaluating an investment in us.

Risks Related to Commodity Prices and Global Macroeconomics

Oil, gas, and NGL prices are volatile, and declines in prices may adversely affect our profitability, financial condition, cash flows, access to capital, and ability to grow.

Our revenues, operating results, profitability, future rate of growth, and the carrying value of our oil and gas properties depend heavily on the prices we receive for oil, gas, and NGL sales. Oil, gas, and NGL prices also affect our cash flows available for capital expenditures, debt reductions, and other expenditures, our borrowing capacity, and the volume and value of our oil, gas, and NGL reserves. In addition, we may have oil and gas property impairments or downward revisions of estimates of proved reserves if prices fall significantly. Please refer to Significant Developments in 2021 and Reserves in Part I, Items 1 and 2, Comparison of Financial Results and Trends Between 2021 and 2020 and Between 2020 and 2019 in Part II, Item 7, and Note 1 – Summary of Significant Accounting Policies, Note 8 – Fair Value Measurements, and Supplemental Oil and Gas Information (unaudited) in Part II, Item 8 for specific discussion.

Historically, the markets for oil, gas, and NGLs have been volatile, and they are likely to continue to be volatile. Wide fluctuations in oil, gas, and NGL prices often result from relatively minor changes in the supply of and demand for oil, gas, and NGLs, market uncertainty, and other factors that are beyond our control, including:

- · global and domestic supplies of oil, gas, and NGLs, and the productive capacity of the industry as a whole;
- · the level of consumer demand for oil, gas, and NGLs;
- · overall global and domestic economic conditions;
- · weather conditions;
- · the availability and capacity of gathering, transportation, processing, and/or refining facilities in asset-specific or localized areas;
- · liquefied natural gas deliveries to and from the United States;
- the price and availability of alternative fuels or sources of energy;
- · technological advances in, and regulations affecting, energy consumption and conservation;
- the ability of the members of the Organization of Petroleum Exporting Countries and other exporting countries to maintain effective oil price and production controls;

- political instability or armed conflict in oil or gas producing regions, such as the escalating tensions currently occurring between Russia and Ukraine;
- · actual or perceived epidemic or pandemic risks;
- · strengthening and weakening of the United States dollar relative to other currencies;
- inflation
- stockholder activism or activities by non-governmental organizations to limit sources of funding or restrict the exploration and production of oil, gas, and NGLs and related infrastructure; and
- · governmental regulations and taxes.

Declines in oil, gas, and NGL prices would reduce our revenues and could also reduce the amount of oil, gas, and NGLs that we can produce economically, which could have a material adverse effect on our business, financial condition, liquidity, results of operations, and prospects.

The global COVID-19 Pandemic has impacted, and will likely continue to impact, us and our industry and could have a material adverse effect on our business, financial condition, liquidity, results of operations and prospects.

Since the beginning of 2020, the Pandemic has spread across the globe and disrupted markets and economies around the world, including the oil, gas, and NGL industry in which we operate. Approximately two years after its onset, the Pandemic remains a global health crisis and continues to evolve, and as a result, the markets for the commodities produced by our industry remain subject to heightened levels of uncertainty. Volatile market conditions are likely to persist and could impact our business, financial condition, liquidity, results of operations, prospects, or the timing of further recovery. Although demand for the commodities produced by our industry has increased, further negative financial markets and industry-specific impacts could result from future case surges, outbreaks, COVID-19 virus variants, the potential that current vaccines may be less effective or ineffective against future COVID-19 virus variants, and the risk that large groups of the population may not receive vaccinations against COVID-19, and as a result, may require us to adjust our business plan. In addition to the risks directly related to the Pandemic that are discussed throughout this report, the Pandemic is likely to increase the likelihood and magnitude of the other risk factors described in this section.

Weakness in economic conditions or uncertainty in financial markets may have material adverse impacts on our business that we cannot predict.

Historically, the United States and global economies and financial systems have experienced turmoil and upheaval characterized by extreme volatility in prices of equity and debt securities, periods of diminished liquidity and credit availability, inability to access capital markets, the bankruptcy, failure, collapse, or sale of financial institutions, inflation, and an unprecedented level of intervention by the United States federal government and other governments. Weakness or uncertainty in the United States economy or other large economies could materially adversely affect our business and financial condition. For example:

- the tightening of credit or lack of credit availability to our customers could adversely affect our ability to collect our trade receivables;
- · the liquidity available under our Credit Agreement could be reduced if any lender is unable to fund its commitment;
- our ability, or the ability of our suppliers or contractors, to access the capital markets may be restricted or non-existent at a time when we or they would like, or need, to raise capital for our or their business, including for the exploration and/or development of reserves;
- our commodity derivative contracts could become economically ineffective if our counterparties are unable to perform their obligations or seek bankruptcy protection:
- · in an inflationary environment, we could be impacted by increased borrowing costs as a result of rising interest rates; and
- variable interest rate spread levels, including for LIBOR (or any applicable replacement rate) and the prime rate, could increase significantly, resulting in higher interest costs for unhedged variable interest rate based borrowings under our Credit Agreement.

Risks Related to Oil and Gas Operations and the Industry

If we are unable to replace reserves, we will not be able to sustain production.

Our future operations depend on our ability to find or acquire and develop oil, gas, and NGL reserves that are economically producible. Our properties produce oil, gas, and NGLs at a declining rate over time. In order to maintain current production rates, we must locate or acquire and develop new oil, gas, and NGL reserves to replace those being depleted by production.

For future acquisitions we may complete, a successful outcome for our business will depend on a number of factors, many of which are beyond our control. These factors include the purchase price and transaction costs for the acquisition, future oil, gas, and NGL prices, the ability to reasonably estimate the recoverable volumes of reserves, rates of future production and future net revenues attainable from reserves, future operating and capital costs, results of future exploration, exploitation, and development activities on the

acquired properties, and future abandonment and possible future environmental or other liabilities. There are numerous uncertainties inherent in estimating these variables with respect to prospective acquisition targets. Actual results may vary substantially from those assumed in the estimates. Our customary review in connection with acquisitions will not necessarily reveal, or allow us to fully assess, all existing or potential problems and deficiencies with such properties. We do not inspect every well, and even when we inspect a well, we may not discover structural, subsurface, or environmental problems that may exist or arise. We may not be entitled to contractual indemnification for pre-closing liabilities, including environmental liabilities. We often acquire interests in properties on an "as-is" basis with limited remedies for breaches of representations and warranties.

Additionally, significant acquisitions can change the nature of our operations and business depending upon the character of the acquired properties if they have substantially different operating and geological characteristics or are in different geographic locations than our existing properties. To the extent that acquired properties are substantially different than our existing properties, our ability to efficiently realize the expected economic benefits of such transactions may be limited.

Integrating acquired businesses and properties involves a number of unique risks. These risks include the possibility that management may be distracted from regular business concerns by the need to integrate operations and systems and that unforeseen difficulties can arise in integrating operations and systems, and in retaining and assimilating employees. Any of these or other similar risks could lead to potential adverse short-term or long-term effects on our operating results and may cause us to not be able to realize any or all of the anticipated benefits of the acquisitions.

Competition in our industry is intense, and many of our competitors have greater financial, technical, and human resources than we do.

We face intense competition from oil and gas exploration and production companies of all sizes for the capital, equipment, expertise, labor, and materials required to operate oil and gas properties. Many of our competitors have financial, technical, and other resources exceeding those available to us, and many oil and gas properties are sold in a competitive bidding process in which our competitors may be able and willing to pay more for exploratory and development prospects and productive properties, or in which our competitors have technological information or expertise that is not available to us to evaluate and successfully bid for properties. As a result, we may not be successful in acquiring and developing profitable properties. In addition, other companies may have a greater ability to continue drilling activities during periods of low oil or gas prices and to absorb the burden of current and future governmental regulations and taxation. In addition, shortages of equipment, labor, or materials as a result of intense competition may result in increased costs or the inability to obtain those resources as needed. Our inability to compete effectively with companies in any area of our business could have a material adverse impact on our business activities, financial condition, and results of operations.

The loss of personnel could adversely affect our business.

We depend to a large extent on the efforts and continued employment of our executive management team, other key personnel, and our general labor force. The loss of their services could adversely affect our business. Our drilling success and the success of other activities integral to our operations will depend, in part, on our ability to attract and retain experienced geologists, engineers, landmen, and other professionals. Competition for many of these professionals can be intense. If we cannot retain our technical personnel or attract additional experienced technical personnel and professionals, our ability to compete could be harmed.

The actual quantities and present value of our proved oil, gas, and NGL reserves may be less than we have estimated, and the cost to develop our reserves may be more than we have estimated

This report and certain of our other SEC filings contain estimates of our proved oil, gas, and NGL reserves and the present value of estimated future net revenues from those reserves. The process of estimating reserves is complex and estimates are based on various assumptions, including geological and geophysical characteristics, future oil, gas, and NGL prices, drilling and completion costs, gathering and transportation costs, operating expenses, capital expenditures, effects of governmental regulation, taxes, timing of operations, and availability of funds. Therefore, these estimates are inherently imprecise. In addition, our reserve estimates for properties with limited production history may be less reliable than estimates for properties with lengthy production histories.

Actual future production; prices for oil, gas, and NGLs; revenues; production taxes; development expenditures; operating expenses; and quantities of producible oil, gas, and NGL reserves will most likely vary from those estimated. Any significant variance could materially affect the estimated quantities of and present value related to proved reserves disclosed by us, and the actual quantities and present value may be significantly less than what we have previously estimated. Our properties may also be susceptible to hydrocarbon drainage from production on adjacent properties, which we may not control.

As of December 31, 2021, 39 percent, or 191.8 MMBOE, of our estimated proved reserves were proved undeveloped. In order to develop our proved undeveloped reserves, as of December 31, 2021, we estimate approximately \$1.4 billion of capital expenditures would be required. Although we have estimated our proved reserves and the costs associated with these proved reserves in accordance with industry standards, estimated costs may not be accurate, development may not occur as scheduled, and actual results may not occur as estimated.

One should not assume that the standardized measure of discounted future net cash flows or PV-10 included in this report represent the current market value of our estimated proved oil, gas, and NGL reserves. Management has based the estimated discounted future net cash flows from proved reserves on price and cost assumptions required by the SEC, whereas actual future prices and costs may be materially higher or lower. Please refer to Reserves in Part I, Items 1 and 2 of this report for discussion regarding the prices used in estimating the present value of our proved reserves as of December 31, 2021, and to the caption Oil and Gas Reserve Quantities under Critical Accounting Policies and Estimates in Part II, Item 7 of this report for additional information.

The timing of production from oil and gas properties and of related expenses affects the timing of actual future net cash flows from proved reserves, and thus their actual present value. Our actual future net cash flows could be less than the estimated future net cash flows for purposes of computing PV-10. In addition, the 10 percent discount factor required by the SEC to calculate PV-10 for reporting purposes is not necessarily the most appropriate discount factor given actual interest rates, costs of capital, and other risks to which our business and the oil and gas industry in general are subject.

Our disposition activities may be subject to factors beyond our control, and in certain cases we may retain unforeseen liabilities for certain matters

We regularly sell non-core assets in order to increase capital resources available for core assets and other purposes and to create organizational and operational efficiencies. We also occasionally sell interests in core assets for the purpose of accelerating the development and increasing efficiencies in other core assets. Various factors could materially affect our ability to dispose of such assets, including the approvals of governmental agencies or third parties, the availability of purchaser financing and purchasers willing to acquire the assets on terms we deem acceptable, or other matters or uncertainties that could impact such dispositions, including whether transactions could be consummated or completed in the form or timing and for the value that we anticipate. At times we may be required to retain certain liabilities or agree to indemnify buyers in connection with such asset sales. The magnitude of such retained liabilities or of the indemnification obligations may be difficult to quantify at the time of the transaction and ultimately could be material.

We rely on third-party service providers to conduct drilling and completion and other related operations.

We rely on third-party service providers to perform necessary drilling and completion and other related operations. The ability of third-party service providers to perform such operations will depend on those service providers' ability to compete for and retain qualified personnel, financial condition, economic performance, and access to capital, which in turn will depend upon the supply and demand for oil, gas, and NGLs, prevailing economic conditions, and financial, business, and other factors. In addition, sustained low commodity prices could cause third-party service providers to consolidate or declare bankruptcy, which could limit our options for engaging such providers. The failure of a third-party service provider to adequately perform operations could delay drilling or completion or reduce production from the property and adversely affect our financial condition and results of operations.

Title to the properties in which we have an interest may be impaired by title defects.

We generally rely on title due diligence reports when acquiring oil and gas leasehold interests, and we obtain title opinions prior to commencing initial drilling operations on the properties we operate. Title to the properties in which we have an interest may be impaired by title defects that may not be identified in the due diligence title reports or title opinions we obtain, or such defects may not be cured following identification. A material title defect can reduce the value of a property or render it worthless, thus adversely affecting our oil and gas reserves, financial condition, results of operations, and operating cash flow, and may also impair the value of or render adjacent properties uneconomic to develop. Undeveloped acreage has greater risk of title defects than developed acreage and title insurance is not generally available for oil and gas properties.

Oil and gas drilling, completion, and production activities are subject to numerous risks, including the risk that no commercially producible oil, gas, or NGLs will be found.

The cost of drilling and completing wells is often uncertain, and oil, gas, or NGLs drilling and production activities may be shortened, delayed, or canceled as a result of a variety of factors, many of which are beyond our control. These factors may include, but are not limited to:

- unexpected adverse drilling or completion conditions;
- title problems;
- disputes with owners or holders of surface interests on or near areas where we operate;
- · pressure or geologic irregularities in formations;
- engineering and construction delays;
- · equipment failures or accidents;
- hurricanes, tornadoes, flooding, or other adverse weather conditions;
- · operational restrictions resulting from seismicity concerns;
- governmental permitting delays;

- · supply chain issues, including cost increases and availability of equipment or materials;
- · compliance with environmental and other governmental requirements; and
- shortages or delays in the availability of or increases in the cost of drilling rigs and crews, fracture stimulation crews and equipment, pipe, chemicals, water, sand, and other supplies.

The wells we drill may not be productive, and we may not recover all or any portion of our investment in such wells. The seismic data and other technologies we use do not allow us to know conclusively prior to drilling a well if oil, gas, or NGLs are present, or whether they can be produced economically. Drilling activities can result in dry holes or wells that are productive but do not produce sufficient net revenues after operating and other costs to cover drilling and completion costs. Even if sufficient amounts of oil, gas, or NGLs exist, we may damage a potentially productive hydrocarbon-bearing formation or experience mechanical difficulties while drilling or completing a well, which could result in reduced or no production from the well, significant expenditure to repair the well, and/or the loss and abandonment of the well.

Another significant risk inherent in our drilling plans is the need to obtain drilling permits from state, local, and other governmental authorities. Delays in obtaining regulatory approvals and drilling permits, including delays that jeopardize our ability to realize the potential benefits from leased properties within the applicable lease periods, the failure to obtain a drilling permit for a well, or the receipt of a permit with unreasonable conditions or costs could have a materially adverse effect on our ability to explore or develop our properties.

Results in newer resource plays may be more uncertain than results in resource plays that are more developed and have longer established production histories. We, and the industry, generally have less information with respect to the ultimate recoverability of reserves and the production decline rates in newer resource plays than other areas with longer histories of development and production. Drilling and completion techniques that have proven to be successful in other resource plays are being used in the early development of new plays; however, we can provide no assurance of the ultimate success of these drilling and completion techniques.

We may not be able to obtain any options or lease rights in potential drilling locations that we identify. Unless production is established within the spacing units covering undeveloped acres on which our drilling locations are identified, the leases for such acreage will expire and we will lose our right to develop the related properties. Our total net acreage as of February 10, 2022, that is scheduled to expire over the next three years, represents less than one percent of our total net undeveloped acreage as of December 31, 2021. Although we have identified numerous potential drilling locations, we may not be able to economically drill for and produce oil, gas, or NGLs from all of them, and our actual drilling activities may materially differ from those presently identified, which could adversely affect our financial condition, results of operations and operating cash flow.

The results of our operations are subject to drilling and completion technique risks, and results may not meet our expectations for reserves or production. As a result, we may incur material write-downs, and the value of our undeveloped acreage could decline if drilling results are unsuccessful.

Many of our operations involve utilizing the latest drilling and completion techniques as developed by us, other operators and our service providers in order to maximize production and ultimate recoveries and therefore generate the highest possible returns. Risks we face while drilling include, but are not limited to, landing our well bore outside the desired drilling zone, deviating from the desired drilling zone while drilling horizontally through the formation, the inability to run our casing the entire length of the well bore, and the inability to run tools and recover equipment consistently through the horizontal well bore. Risks we face while completing our wells include, but are not limited to, the inability to fracture stimulate the planned number of stages, the inability to run tools and other equipment the entire length of the well bore after completion of the final fracture stimulation.

In addition, exploration and drilling technologies we currently use or implement in the future may become obsolete. If we are unable to maintain technological advancements consistent with industry standards, our operations and financial condition may be adversely affected. We cannot be certain we will be able to implement exploration and drilling technologies on a timely basis or at a cost that is acceptable to us.

Ultimately, the success of exploration, drilling, and completion technologies and techniques can only be evaluated over time as more wells are drilled and production profiles are established over a sufficiently long time period. If our drilling results are less than anticipated or we are unable to execute our drilling program because of capital constraints, lease expirations, limited access to gathering systems and takeaway capacity, and/or prices for oil, gas, and NGLs decline, then the return on our investment for a particular project may not be as attractive as we anticipated and we could incur material write-downs of oil and gas properties and the value of our undeveloped acreage could decline in the future.

Many of our properties are in areas that may have been partially depleted or drained by offset wells and certain of our wells may be adversely affected by actions other operators may take when drilling, completing, or operating wells that they own.

Many of our properties are in areas that may have already been partially depleted or drained by earlier offset drilling. The owners of leasehold interests adjoining any of our properties could take actions, such as drilling and completing additional wells, which

could adversely affect our operations. When a new well is completed and produced, the pressure differential in the vicinity of the well causes the migration of reservoir fluids toward the new wellbore (and potentially away from existing wellbores). As a result, the drilling and production of these potential locations could cause a depletion of our proved reserves and may inhibit our ability to further develop our proved reserves. In addition, completion operations and other activities conducted on adjacent or nearby wells could cause production from our wells to be shut in for indefinite periods of time, result in increased lease operating expenses and adversely affect the production and reserves from our wells after they re-commence production. We have no control over the operations or activities of offsetting operators.

The inability of customers or co-owners of assets to meet their obligations may adversely affect our financial results.

Substantially all of our accounts receivable result from oil, gas, and NGL sales or joint interest billings to co-owners of oil and gas properties we operate. This concentration of customers and joint interest owners may impact our overall credit risk because these entities may be similarly affected by various economic and other market conditions, including declines in oil, gas, and NGL prices. The loss of one or more of these customers could reduce competition for our products and negatively impact the prices of commodities we sell. We do not believe the loss of any single purchaser would materially impact our operating results, as we have numerous options for purchasers in each of our operating areas for our oil, gas, and NGL production. Please refer to Concentration of Credit Risk and Major Customers in Note 1 – Summary of Significant Accounting Policies, in Part II, Item 8 of this report for further discussion of our concentration of credit risk and major customers. Additionally, the inability of our co-owners to pay joint interest billings could negatively impact our cash flows and financial ability to drill and complete current and future wells.

We have entered into firm transportation contracts that require us to pay fixed sums of money to our counterparties regardless of quantities actually shipped, processed, or gathered. If we are unable to deliver the necessary quantities of oil, gas, NGL, or produced water to our counterparties, our results of operations, financial position, and liquidity could be adversely affected.

As of December 31, 2021, we were contractually committed to deliver a minimum of 10 MMBbl of oil and 89 Bcf of gas through 2024, and 14 MMBbl of produced water through 2027. We may enter into additional firm transportation agreements as we expand the development of our resource plays. We do not expect to incur any material shortfalls related to our existing contractual commitments. In the event we encounter delays in drilling and completing our wells or otherwise due to construction, interruptions of operations, or delays in connecting new volumes to gathering systems or pipelines for an extended period of time, or if we further limit our capital expenditures due to future commodity price declines or for other reasons, the requirements to pay for quantities not delivered could have a material impact on our results of operations, financial position, and liquidity.

Negative public perception and investor sentiment regarding our business and the oil and gas industry as a whole could adversely affect our business, operations, and our ability to attract capital.

Certain segments of the public as a whole, and the investment community in particular, have developed negative sentiment towards our industry. In recent years, equity returns in the sector versus other industry sectors have led to lower oil and gas representation in certain key equity market indices. In addition, some investors, including investment management firms, sovereign wealth and pension funds, university endowments and other investment advisors, have adopted policies to discontinue or reduce their investments in the oil and gas sector based on social and environmental considerations. Furthermore, other influential stakeholders have pressured commercial and investment banks and other service providers to reduce or cease financing of oil and gas companies and related infrastructure projects.

Such developments, including increased focus on environmental, social and governance matters and initiatives aimed at limiting climate change and reducing air pollution, and changes in federal income tax laws could result in downward pressure on the stock prices of oil and gas companies, including ours. This may also potentially result in a reduction of available capital funding for potential development projects, impacting our future financial results.

We are subject to operating and environmental risks and hazards that could result in substantial losses or liabilities that may not be fully insured.

Oil and gas operations are subject to many risks, including human error and accidents, that could cause personal injury, death, property damage, well blowouts, craterings, explosions, uncontrollable flows of oil, gas and NGLs, or well fluids, releases or spills of completion fluids, spills or releases from facilities and equipment used to deliver or store these materials, spills or releases of brine or other produced or flowback water, subsurface conditions that prevent us from stimulating the planned number of completion stages, accessing the entirety of the wellbore with our tools during completion, or removing materials from the wellbore to allow production to begin, fires, adverse weather such as hurricanes or tornadoes, freezing conditions, floods, droughts, formations with abnormal pressures, pipeline ruptures or spills, pollution, seismic events, releases of toxic gas such as hydrogen sulfide, and other environmental risks and hazards. If any of these types of events occurs, we could sustain substantial losses.

In response to increased seismic activity in the Permian Basin in Texas, the Railroad Commission of Texas ("RRC") has developed a seismic review process for injection wells near qualifying seismic activity. As a result of the seismic review process, the RRC may declare an area to be a Seismic Response Area ("SRA") and may adjust limits for injection rates and pressure, require bottom-hole pressure tests, or modify, suspend, or terminate injection well permits within the SRA. If a SRA is declared within an area

of our operations, our ability to dispose of produced water may be adversely affected, and as a result, we may be forced to shut-in injection wells or find alternate produced water disposal options which could affect production and therefore oil, gas, and NGL production revenue, and could cause us to incur additional capital or operating expense. The declaration of SRAs has required us to adjust the areas where we seek permits for injection wells to areas or formations that are less desirable, and could further restrict the areas where we are able to obtain and operate under such permits without restrictions. Additionally, we could be subject to third-party claims and liability based on allegations that our operations caused or contributed to seismic events that resulted in damage to property or personal injury, or that are otherwise related to seismic events.

If we experience any of the problems with well stimulation, completion activities, and disposal referenced above, our ability to explore for and produce oil, gas, and NGLs may be adversely affected. We could incur substantial losses or otherwise fail to realize reserves in particular formations as a result of the need to shut down, abandon, or relocate drilling operations, the need to modify drill sites to lessen the risk of spills or releases, the need to investigate and/or remediate any spills, releases or ground water contamination that might have occurred, and the need to suspend our operations.

There is inherent risk of incurring significant environmental costs and liabilities in our operations due to our current and past generation, handling, and disposal of materials, including produced water, solid and hazardous wastes, and petroleum hydrocarbons. We may incur joint and several, and/or strict liability under applicable United States federal and state environmental laws in connection with releases of hazardous substances at, on, under, or from our leased or owned properties, some of which have been used for oil and gas exploration and production activities for a number of years, often by third-parties not under our control. For our outside-operated properties, we are dependent on the operator for operational and regulatory compliance and could be subject to liabilities in the event of non-compliance. These properties and the wastes disposed thereon or therefrom could be subject to stringent and costly investigatory or remedial requirements under applicable laws, some of which are strict liability laws without regard to fault or the legality of the original conduct, including CERCLA or the Superfund law, RCRA, the Clean Water Act, the CAA, the OPA, and analogous state laws. Under various implementing regulations, we could be required to remove or remediate previously disposed wastes (including wastes disposed of or released by prior owners or operators) or property contamination (including groundwater contamination), to perform natural resource mitigation or restoration practices, or to perform remedial plugging or closure operations to prevent future contamination. In addition, it is not uncommon for neighboring landowners and other third-parties to file claims for personal injury or property damage, including induced seismicity damage, allegedly caused by the release of petroleum hydrocarbons or other hazardous substances into the environment. As a result, we may incur substantial liabilities to third-parties or governmental entities, which could reduce or eliminate funds available for exploration,

We maintain insurance against some, but not all, of these potential risks and losses. We have significant but limited coverage for sudden environmental damage. We do not believe that insurance coverage for the full potential liability that could be caused by environmental damage that occurs gradually over time is appropriate for us at this time given the nature of our operations and the nature and cost of such coverage. Further, we may elect not to obtain insurance coverage under circumstances where we believe that the cost of available insurance is excessive relative to the risks to which we are subject. Accordingly, we may be subject to liability or may lose substantial assets in the event of environmental or other damages. If a significant accident or other event occurs and is not fully covered by insurance, we could suffer an uninsured material loss

Our operations are subject to complex laws and regulations, including environmental regulations, that result in substantial costs and other risks.

Federal, state, and local authorities extensively regulate the oil and gas industry. Legislation and regulations affecting the industry are under constant review for amendment or expansion, raising the possibility of changes that may become more stringent and, as a result, may affect, among other things, the pricing, or marketing of oil, gas, and NGL production. Non-compliance with statutes and regulations and more vigorous enforcement of such statutes and regulations by regulatory agencies may lead to increased operational and compliance costs, substantial administrative, civil, and criminal penalties, including the assessment of natural resource damages, the imposition of significant investigatory and remedial obligations and may also result in the suspension or termination of our operations. The overall regulatory burden on the industry increases the cost to place, design, drill, complete, install, operate, and abandon wells and related facilities and, in turn, decreases profitability.

Governmental authorities regulate various aspects of drilling for and the production of oil, gas, and NGLs, including the permit and bonding requirements of drilling wells, the spacing of wells, the unitization or pooling of interests in oil and gas properties, rights-of-way and easements, disposal of produced water, environmental matters, occupational health and safety, the sharing of markets, production limitations, plugging, abandonment, restoration standards, and oil and gas operations. Public interest in environmental protection has increased in recent years, and environmental organizations have opposed, with some success, certain projects. Under certain circumstances, regulatory authorities may deny a proposed permit or right-of-way grant or impose conditions of approval to mitigate potential environmental impacts, which could, in either case, negatively affect our ability to explore or develop certain properties. Any such delay, suspension, or termination could have a materially adverse effect on our operations.

Our operations are also subject to complex and constantly changing environmental laws and regulations adopted by federal, state, and local governmental authorities in jurisdictions where we are engaged in exploration or production operations. New laws or regulations, or changes to current requirements, including the designation of previously unprotected wildlife or plant species as threatened or endangered in areas we operate in, could result in material costs or claims with respect to properties we own or have

owned or limitations on exploration and production activities in certain locations. We will continue to be subject to uncertainty associated with new regulatory interpretations and inconsistent interpretations between state and federal agencies. Under existing or future environmental laws and regulations, we could incur significant liability, including joint and several, strict liability under federal, state, and local environmental laws for emissions and for discharges of oil, gas, and NGLs or other pollutants into the air, soil, surface water, or groundwater as described in *Government Regulations* in Part I, Items 1 and 2 of this report. Existing environmental laws or regulations, as currently interpreted or enforced, or as they may be interpreted, enforced, or altered in the future, may have a materially adverse effect on us.

The impact of extreme weather conditions and lease stipulations adversely affect our ability to conduct drilling activities in some of the areas where we operate.

Our operations have been in the past, and may continue to be, adversely affected by the impact of extreme weather conditions. Additionally, lease stipulations designed to protect various wildlife or plant species may adversely impact our operations. In certain areas, drilling and other oil and gas activities can only be conducted during limited times of the year. This limits our ability to operate in those areas and can intensify competition during those times for drilling rigs and completion equipment, oil field equipment, services, supplies and qualified personnel, which may lead to periodic shortages. These constraints and the resulting shortages or high costs could delay our operations and materially increase our operating and capital costs.

Federal and state legislative and regulatory initiatives relating to hydraulic fracturing could result in increased costs and additional operating restrictions or delays.

Hydraulic fracturing is a common practice in the oil and gas industry used to stimulate the production of oil, gas, and NGLs from dense subsurface rock formations. We routinely apply hydraulic fracturing techniques to many of our oil and gas properties, including our unconventional resource plays within our Midland Basin and South Texas assets. Hydraulic fracturing involves injecting water, sand, and certain chemicals under pressure to fracture the hydrocarbon-bearing rock formation to allow the flow of hydrocarbons into the wellbore. The process is typically regulated by state oil and gas commissions. However, the EPA and other federal agencies have asserted federal regulatory authority over certain aspects of hydraulic fracturing activities, as outlined below.

The EPA has authority to regulate underground injections that contain diesel in the fluid system under the Safe Drinking Water Act. The EPA also has authority under the Clean Water Act to regulate wastewater generated by unconventional oil and gas operations during the hydraulic fracturing process and discharged to publicly-owned wastewater treatment facilities. If the EPA implements further regulations of hydraulic fracturing, we may incur additional costs to comply with such requirements that may be significant in nature, experience delays or curtailment in the pursuit of exploration, development, or production activities, and could even be prohibited from drilling and/or completing certain wells.

Certain states, including Texas, have adopted, and other states are considering adopting, regulations that could impose more stringent permitting, public disclosure, waste disposal, and well construction requirements on hydraulic fracturing operations or otherwise seek to ban fracturing activities altogether. In addition to state laws, local land use restrictions, such as city ordinances, may restrict, or prohibit the performance of drilling in general and/or hydraulic fracturing in particular. Recently, municipalities have passed or proposed zoning ordinances that ban or strictly regulate hydraulic fracturing within city boundaries, setting the stage for challenges by state regulators and third-parties. Similar events and processes are playing out in several cities, counties, and townships across the United States. In the event that state, local, or municipal legal restrictions are adopted in areas where we are currently conducting, or in the future plan to conduct, operations, we may incur additional costs to comply with such requirements that may be significant in nature, experience delays or curtailment in the pursuit of exploration, development, or production activities, and could even be prohibited from drilling and/or completing certain wells.

In the recent past, several federal governmental agencies were actively involved in studies or reviews that focus on environmental aspects and impacts of hydraulic fracturing practices. Increased regulation and attention given to the hydraulic fracturing process could lead to greater opposition, including litigation, to oil and gas production activities using hydraulic fracturing techniques. Disclosure of chemicals used in the hydraulic fracturing process could make it easier for third parties opposing such activities to pursue legal proceedings against producers and service providers based on allegations that specific chemicals used in the fracturing process could adversely affect human health or the environment, including groundwater. In 2013, a court in California, and in 2020 the United States District Court for the District of Montana each held that the Bureau of Land Management ("BLM") did not comply with NEPA because it did not adequately consider the impact of hydraulic fracturing and horizontal drilling before issuing leases. Similar cases continue to be filed. Courts in New York and Colorado reduced the level of evidence required before a court will agree to consider alleged damage claims from hydraulic fracturing by property owners. Litigation resulting in financial compensation for damages linked to hydraulic fracturing, including damages from induced seismicity, could spur future litigation and bring increased attention to the practice of hydraulic fracturing. Judicial decisions could also lead to increased regulation, permitting requirements, enforcement actions, and penalties. Additional legislation or regulation could also lead to operational delays or restrictions or increased costs in the exploration for, and production of, oil, gas, and NGLs, including from the development of shale plays, or could make it more difficult to perform hydraulic fracturing. The adoption of additional laws, or the implementation of new regulations regarding hydraulic fracturing could potentially cause a decrease in

We will continue to be subject to uncertainty associated with new regulatory suspensions, revisions or rescissions and inconsistent state and federal regulatory mandates that could adversely affect our production.

Federal and state regulatory initiatives relating to air quality and greenhouse gas emissions could result in increased costs and additional operating restrictions or delays.

There has been a trend toward increased air quality and GHG regulation and reduced emissions from oil and gas sources. These regulations include the New Source Performance Standards ("NSPS"), the National Emission Standards for Hazardous Air Pollutants programs, and ozone standards set under the National Ambient Air Quality Standards ("NAAQS"), among others. The adoption of additional state or local laws, or the implementation of new regulations could potentially cause a decrease in the completion of new oil and gas wells, or an increase in compliance costs and delays, which could adversely affect our financial position, results of operations, and cash flows. Please refer to the *Environmental* section in Part II, Item 7 of this report for additional information about the regulation of air emissions, particularly methane emissions from the oil and gas sector.

Requirements to reduce gas flaring could have an adverse effect on our operations.

Wells in the Midland Basin in Texas, where we have significant operations, produce natural gas, as well as oil and NGLs. Constraints in the gas gathering and processing network in certain areas of the Midland Basin have resulted in significant quantities of that gas being flared instead of gathered, processed, and sold. Further, we are subject to laws established by state and other regulatory agencies that restrict the duration and amount of natural gas that can be legally flared. These laws and regulations, including potential future regulations that may impose further restrictions on flaring, could limit the amount of oil and gas we can produce from our wells or may limit the number of wells or the locations that we can drill. Any future laws and regulations may increase our operational costs, or restrict our production, which could materially and adversely affect our financial condition, results of operations and cash flows.

Our ability to produce oil, gas, and NGLs economically and in commercial quantities could be impaired if we are unable to acquire adequate supplies of water for our drilling operations and/or completions or are unable to dispose of or recycle the water we use at a reasonable cost and in accordance with applicable environmental rules.

The hydraulic fracturing process on which we and others in our industry depend to complete wells that will produce commercial quantities of oil, gas, and NGLs requires the use and disposal of significant quantities of water.

Our inability to secure sufficient amounts of water, or to dispose of, or recycle, the water produced from our wells, could adversely impact our operations. Moreover, the imposition of new environmental initiatives and regulations could include restrictions on our ability to conduct certain operations such as hydraulic fracturing or disposal of wastes, including, but not limited to, produced water, drilling fluids, and other wastes associated with the exploration, development, or production of oil, gas, and NGLs.

Compliance with environmental regulations, surface use agreements, and permit requirements governing the withdrawal, storage, and use of surface water or groundwater necessary for hydraulic fracturing of wells may increase our operating costs and cause delays, interruptions, or termination of our operations, the extent of which cannot be predicted, all of which could have an adverse effect on our operations and financial condition.

Legislative and regulatory initiatives and litigation related to global warming and climate change could have an adverse effect on our operations and the demand for oil, gas, and NGLs.

While courts have generally declined to assign direct liability for climate change to large sources of GHG emissions, some have required increased scrutiny of such emissions by federal agencies and permitting authorities. There is a continuing risk of claims being filed against companies that have significant GHG emissions, and new claims for damages and increased government scrutiny, especially from state and local governments, will likely continue.

The United States Congress has from time to time considered adopting legislation to reduce emissions of GHGs, and the majority of states have already taken measures to reduce emissions of GHGs through various measures, including, primarily through the planned development of GHG emission inventories, participation in and/or regional GHG "cap and trade" programs, and/or transition to clean energy. The focus on legislating and/or regulating methane could result in increased scrutiny for sources emitting high levels of methane, including during permitting processes, analysis, regulation and reduction of methane emissions as a requirement for project approval, and actions taken by one agency for a specific industry establishing precedents for other agencies and industry sectors. In 2021, the EPA proposed requirements for methane emission reductions from existing oil and gas equipment.

Any court rulings, laws, or regulations that restrict or require reduced emissions of GHGs could lead to increased operating and compliance costs and could have an adverse effect on demand for the oil and gas that we produce.

Scientists have predicted 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, droughts, and floods and other climatic events. If such effects were to occur, our operations could be adversely affected. Potential adverse effects could include disruption of our drilling,

completion, and production activities, including, for example, damages to our facilities from flooding or increases in our costs of operation or reductions in the efficiency of our operations, as well as potentially increased costs for insurance coverage in the aftermath of such events. Significant physical effects of climate change could also have an indirect effect on our financing and operations by disrupting the transportation or process-related services provided by midstream companies, service companies, or suppliers with whom we have a business relationship. We may not be able to recover through insurance some or any of the damages, losses, or costs that may result from potential physical effects of climate change. Federal regulations or policy changes regarding climate change preparation requirements could also impact our costs and planning requirements because emissions of such gases contribute to warming of the earth's atmosphere and other climatic changes.

Our ability to sell oil, gas, and NGLs, and/or receive market prices for our production, may be adversely affected by constraints on gathering systems, processing facilities, pipelines, and other transportation systems owned or operated by third-parties or by other interruptions beyond our control, which could obstruct, limit, or eliminate our access to oil. gas. and NGL markets.

The marketability of our oil, gas, and NGL production depends in part on the availability, proximity, and capacity of gathering systems, processing facilities, pipelines, and other transportation systems, which are generally owned or operated by third parties. Any significant interruption in service from, damage to, or lack of available capacity in these systems and facilities can result in the shutting-in of producing wells, the delay, or discontinuance of development plans for our properties, increases in costs, or lower price realizations. Although we have some influence over the processing and transportation of our operated production, material changes in these business relationships could materially affect our operations. Federal and state regulation of oil, gas, and NGL production and transportation, tax and energy policies, changes in supply and demand, pipeline pressures, damage to or destruction of pipelines or processing facilities, infrastructure or capacity constraints, and general economic conditions could adversely affect our ability to produce, gather, process, transport, or market oil, gas, and NGLs.

Production may be interrupted, or shut in, from time to time for numerous reasons, including weather conditions, accidents, loss of pipeline, gathering, processing or transportation system access or capacity, field labor issues or strikes, or we might voluntarily curtail production in response to market or other conditions. If a substantial amount of our production is interrupted at the same time, it could adversely affect our cash flows and results of operations.

We have limited control over the activities on properties we do not operate.

Some of our properties are operated by other companies and involve third-party working interest owners. As a result, we have limited ability to influence or control the operation or future development of such properties, including the nature and timing of drilling and operational activities, the operator's skill and expertise, compliance with environmental, safety and other regulations, the approval of other participants in such properties, the selection and application of suitable technology, or the amount of expenditures that we will be required to fund with respect to such properties. Moreover, we are dependent on the other working interest owners of such projects to fund their contractual share of the expenditures of such properties. These limitations and our dependence on the operator and other working interest owners in these projects could cause us to incur unexpected future costs.

Risks Related to Debt, Liquidity, and Access to Capital

Substantial capital is required to develop and replace our reserves.

We must make substantial capital expenditures to find, acquire, develop, and produce oil, gas, and NGL reserves. Future cash flows and the availability of financing are subject to a number of factors, such as the level of production from existing wells, prices received for oil, gas, and NGL sales, our success in locating, developing, and acquiring new reserves, and the orderly functioning of credit and capital markets. If our cash flows from operations are less than expected, we may reduce our planned capital expenditures. If we cannot access sufficient liquidity under our Credit Agreement, or raise additional funds through debt or equity financing or the sale of assets, our ability to execute development plans, replace our reserves, maintain our acreage, or maintain production levels could be greatly limited.

Downgrades in our credit ratings by various credit rating agencies could impact our access to capital and materially adversely affect our business and financial condition.

Downgrades of our credit rating levels could have material adverse consequences on our business and future prospects and could:

- · limit our ability to access capital markets, including for the purpose of refinancing our existing debt;
- cause us to refinance or issue debt with less favorable terms and conditions, which debt may restrict, among other things, our ability to make any dividend distributions or repurchase shares;
- negatively impact lenders' willingness to transact business with us which could impact our ability to obtain favorable terms and conditions under our Credit Agreement:
- · negatively impact current and prospective customers' willingness to transact business with us;

- · impose additional insurance, guarantee, bonding, and collateral requirements;
- · limit our access to bank and third-party guarantees, surety bonds, and letters of credit; and
- cause our suppliers and financial institutions to lower or eliminate the level of credit provided through payment terms or intraday funding when dealing with us,
 thereby increasing the need for higher levels of cash on hand, which would decrease our ability to repay outstanding indebtedness.

We cannot provide assurance that any of our current credit ratings will remain in effect for any given period of time or that a credit rating will not be lowered or withdrawn entirely by a rating agency if, in its judgment, circumstances warrant.

Our commodity derivative contract activities may result in financial losses or may limit the prices we receive for oil, gas, and NGL sales.

To mitigate a portion of the exposure to potentially adverse market changes in oil, gas, and NGL prices and the associated impact on cash flows, we regularly enter into commodity derivative contracts. Our commodity derivative contracts include swap and collar arrangements for oil, gas, and NGLs. These activities may expose us to the risk of financial loss in certain circumstances, including instances in which:

- our production is less than expected;
- · one or more counterparties to our commodity derivative contracts default on their contractual obligations; or
- there is a widening of price differentials between delivery points for our production and the delivery point assumed in the commodity derivative contract arrangement.

In addition, commodity derivative contracts may limit the prices we receive for our oil, gas, and NGL sales if oil, gas, or NGL prices rise substantially over the price established by the commodity derivative contract, which we experienced in 2021. Please refer to *Note 10 – Derivative Financial Instruments* in Part II, Item 8 of this report for additional detail regarding our commodity derivative contracts.

Future oil, gas, and NGL price declines or unsuccessful exploration efforts may result in write-downs of our asset carrying values.

We follow the successful efforts method of accounting for our oil and gas properties. All property acquisition costs and development costs are capitalized when incurred. Exploratory well costs are initially capitalized, pending the determination of whether proved reserves have been discovered. If commercial quantities of proved reserves are not discovered with an exploratory well, the costs of drilling the well are expensed as dry holes.

The capitalized costs of our oil and gas properties, on a depletion pool basis, cannot exceed the estimated undiscounted future net cash flows of that depletion pool. If net capitalized costs exceed undiscounted future net cash flows, we generally must write down the costs of each depletion pool to the estimated discounted future net cash flows of that depletion pool. Write downs for unproved properties are also evaluated for carrying costs in excess of fair value. This evaluation considers the potential for abandonment due to actual and anticipated lease expirations, as well as actual and anticipated losses on acreage due to title defects, changes in development plans, and other inherent acreage risks. Declines in the prices of oil, gas, or NGLs, or unsuccessful exploration efforts, could cause proved and/or unproved property impairments in the future

We review the carrying values of our properties for indicators of impairment on a quarterly basis using the prices in effect as of the end of each quarter. Once incurred, a write-down of oil and gas properties held for use cannot be reversed at a later date, even if oil, gas, or NGL prices increase.

Lower oil, gas, or NGL prices could limit our ability to borrow under our Credit Agreement.

As of December 31, 2021, both the borrowing base and aggregate lender commitments under our Credit Agreement were \$1.1 billion. The borrowing base is subject to semi-annual redetermination based on the bank group's assessment of the value of our proved reserves, which in turn is impacted by oil, gas, and NGL prices. The next borrowing base redetermination date is scheduled for April 1, 2022. Divestitures of additional properties, incurrence of additional debt, or declines in commodity prices could limit our borrowing base and reduce the amount we can borrow under our Credit Agreement, which could in turn impact, among other things, our ability to service our debt, fund our capital program, or compete for the acquisition of new properties.

The amount of our debt may limit our ability to obtain financing for acquisitions, make us more vulnerable to adverse economic conditions, and make it more difficult for us to make payments on our debt.

As of December 31, 2021, we had \$2.1 billion of aggregate principal amount outstanding of Senior Notes with maturities through 2028, as further discussed and defined in *Note 5 – Long-Term Debt* in Part II, Item 8 of this report. Additionally, we had no outstanding balance on our revolving credit facility and \$1.1 billion of available borrowing capacity under our Credit Agreement as of December 31, 2021. Our long-term debt represented 51 percent of our total book capitalization as of December 31, 2021.

The amounts of our indebtedness could have important consequences for our operations, including:

- making it more difficult for us to obtain additional financing in the future for our operations and potential acquisitions, working capital requirements, capital
 expenditures, debt service, or other general corporate requirements;
- requiring us to dedicate a substantial portion of our cash flows from operations to the repayment of our debt and the service of interest costs associated with our debt, rather than to capital investments;
- limiting our operating flexibility due to financial and other restrictive covenants, including restrictions on incurring additional debt, making acquisitions, and paying dividends:
- · placing us at a competitive disadvantage compared to our competitors with less debt; and
- · making us more vulnerable in the event of adverse economic or industry conditions or a downturn in our business.

If our business does not generate sufficient cash flow from operations or future sufficient borrowings are not available to us under our Credit Agreement or from other sources, we might not be able to service our debt, issue additional debt, or fund our planned capital expenditures and other liquidity needs. If we are unable to service our debt, due to inadequate liquidity or otherwise, we may have to delay or cancel acquisitions, defer capital expenditures, sell equity securities, divest assets, and/or restructure or refinance our debt. We might not be able to sell our equity, sell our assets, or restructure or refinance our debt on a timely basis or on satisfactory terms or at all. In addition, the terms of our existing or future debt agreements, including our Credit Agreement and any future credit agreements, may prohibit us from pursuing any of these alternatives

As discussed above, our Credit Agreement is subject to periodic borrowing base redeterminations. We could be forced to repay a portion of our bank borrowings in the event of a downward redetermination of our borrowing base, and we may not have sufficient funds to make such repayment at that time. If we do not have sufficient funds and are otherwise unable to negotiate adjustments to our borrowing base or arrange new financing, we may be forced to sell significant assets.

The agreements governing our debt arrangements contain various covenants that limit our discretion in the operation of our business, could prohibit us from engaging in transactions we believe to be beneficial, and could lead to the accelerated repayment of our debt.

Our debt agreements, including our Credit Agreement and the indentures governing our Senior Notes, contain restrictive covenants that limit our ability to engage in activities that may be in our long-term best interests, including restrictions on incurring debt, issuing dividends, redeeming common stock, selling assets, creating liens, entering into transactions with affiliates, and merging, consolidating, or selling our assets. Our ability to borrow under our Credit Agreement is subject to compliance with certain financial and non-financial covenants, as outlined in the Credit Agreement. Please refer to Note 5 – Long-Term Debt in Part II, Item 8 of this report for additional discussion. These restrictions on our ability to operate our business could significantly harm us by, among other things, limiting our ability to take advantage of financings, mergers and acquisitions, and other corporate opportunities.

Our failure to comply with these covenants could result in an event of default that, if not cured or waived, could result in the acceleration of all or a portion of our indebtedness. We do not have sufficient working capital to satisfy our debt obligations in the event of an acceleration of all or a significant portion of our outstanding indebtedness

Risks Related to Corporate Governance and Ownership of Public Equity Securities

The price of our common stock may fluctuate significantly, which may result in losses for investors.

From January 1, 2021, to February 10, 2022, the intraday trading prices per share of our common stock as reported by the New York Stock Exchange ranged from a low of \$5.89 per share in January 2021 to a high of \$38.25 per share in November 2021. We expect our stock to continue to be subject to fluctuations as a result of a variety of factors, including factors beyond our control. These factors include, in addition to the other risk factors set forth herein, the following:

- changes in oil, gas, or NGL prices;
- changes in the outlook for regional, national, or global commodity supply and demand;
- · variations in drilling, recompletion, and operating activity;
- · changes in financial estimates by securities analysts;
- changes in market valuations of comparable companies;
- · additions or departures of key personnel;
- increased volatility due to the impacts of algorithmic trading practices;
- · future sales of our common stock;
- negative public perception and investor sentiment regarding our business and the oil and gas industry as a whole;
- changes in the national and global economic outlook, including potential impacts from trade agreements; and
- international trade relationships, potentially including the effects of trade restrictions or tariffs affecting the raw materials we utilize and the commodities we produce in our business.

We may not meet the expectations of our stockholders and/or of securities analysts at some time in the future, and our stock price could decline as a result.

Our certificate of incorporation and by-laws have provisions that discourage corporate takeovers and could prevent stockholders from receiving a takeover premium on their investment, which could adversely affect the price of our common stock.

Delaware corporate law and our certificate of incorporation and by-laws contain provisions that may have the effect of delaying or preventing a change of control of us or our management. These provisions, among other things, provide for non-cumulative voting in the election of members of the Board of Directors and impose procedural requirements on stockholders who wish to make nominations for the election of directors or propose other actions at stockholder meetings. These provisions, alone or in combination with each other, may discourage transactions involving actual or potential changes of control, including transactions that otherwise could involve payment of a premium over prevailing market prices to stockholders for their common stock. As a result, these provisions could make it more difficult for a third party to acquire us, even if doing so would benefit our stockholders, which may limit the price investors are willing to pay in the future for shares of our common stock.

In addition, stockholder activism in our industry has been present in recent years, and if investors seek to exert influence or affect changes to our business that we do not believe are in the long-term best interests of our stockholders, such actions could adversely impact our business by, among other things, distracting our Board of Directors and management team, causing us to incur unexpected advisory fees and other related costs, impacting execution of our strategic objectives, and creating unnecessary market uncertainty.

We may not always pay dividends on our common stock.

Payment of future dividends remains at the discretion of our Board of Directors, and will continue to depend on our earnings, capital requirements, financial condition, and other factors. In addition, the payment of dividends is subject to a covenant in our Credit Agreement limiting our annual cash dividends to no more than \$12.0 million, and to covenants in the indentures governing our Senior Notes that limit our ability to pay dividends beyond a certain amount. Our Board of Directors may determine in the future to reduce the current annual dividend rate or discontinue the payment of dividends altogether.

General Risk Factors

Our increasing dependence on digital technologies puts us at risk for a cyber incident that could result in information theft, data corruption, operational disruptions or financial loss.

We are subject to cybersecurity risks. The oil and gas industry is increasingly dependent on digital technology in all aspects of our business. We use digital technology to conduct certain aspects of our drilling development, production and gathering activities, manage drilling rigs and completion equipment, gather and interpret seismic data, conduct reservoir modeling, record financial and operating data, and maintain employee and other databases. Our service providers, including those who gather, process, and market our oil, gas, and NGLs, are also increasingly reliant on digital technology. Our and their reliance on this technology increasingly puts us at risk for technology system failures, data or network disruptions, cyberattacks and other breaches in cybersecurity. Power failures, telecommunication or other system failures due to hardware or software malfunctions, computer viruses, vandalism, terrorism, natural disasters, fire, flood, human error or other means could significantly impair our ability to conduct our business.

Cybersecurity attacks are evolving and include, but are not limited to, malicious software, attempts to gain unauthorized access to data, cash, or other assets, and other electronic security breaches that could lead to disruptions in critical systems, unauthorized release of confidential or otherwise protected information, and corruption of data. Deliberate attacks on, or security breaches in our systems, infrastructure, the systems and infrastructure of third-parties, or cloud-based applications could lead to disclosure of confidential information, a corruption or loss of our proprietary data, delays in production or exploration activities, difficulty in completing or settling transactions, challenges in maintaining our books and records, environmental damage, communication or other operational disruptions, and liability to third parties. Any insurance we might obtain in the future may not provide adequate protection from these risks. Any such events could damage our reputation and lead to financial losses from remedial actions, loss of business or potential liability. As these cyber risks continue to evolve and our dependence on digital technologies grows, we may be required to expend significant additional resources to continue to modify or enhance our protective measures and remediate cyber vulnerabilities.

Our business could be negatively impacted by security threats, including cybersecurity threats, terrorism, armed conflict, and other disruptions.

As an oil, gas, and NGL producer, we face various security threats, including cybersecurity threats to gain unauthorized access to sensitive information or to render data or systems unusable; threats to the safety of our employees; threats to the security of our facilities and infrastructure or third-party facilities and infrastructure, such as processing plants and pipelines; and threats from terrorist acts. Although we utilize various procedures and controls to monitor these threats and mitigate our exposure to such threats, there can be no assurance that these procedures and controls will be sufficient in preventing security threats from materializing. If any of these

events were to materialize, they could lead to losses of sensitive information, critical infrastructure, personnel, or capabilities essential to our operations and could have a material adverse effect on our reputation, financial position, results of operations, or cash flows.

The threat of terrorism and the impact of military and other actions have caused instability in world financial markets and could lead to increased volatility in prices for oil, gas, and NGLs, all of which could adversely affect the markets for our production. Energy assets might be specific targets of terrorist attacks. While we currently maintain insurance that provides limited coverage against terrorist attacks, such insurance has become increasingly expensive and difficult to obtain. As a result, insurance providers may not continue to offer this coverage to us on terms we consider reasonable, or at all. In addition, this insurance may not cover all of our losses for a terrorist attack. These developments have subjected our operations to increased risk and, depending on their occurrence and ultimate magnitude, could have a material adverse effect on our business, financial condition, or results of operations.

ITEM 1B. UNRESOLVED STAFF COMMENTS

We have no unresolved comments from the SEC staff regarding our periodic or current reports under the Exchange Act.

ITEM 3. LEGAL PROCEEDINGS

At times, we may be involved in litigation relating to claims arising out of our business and operations in the normal course of business. As of the filing of this report, no legal proceedings are pending against us that we believe individually or collectively are likely to have a materially adverse effect upon our financial condition, results of operations, or cash flows.

SPM NAM LLC. et al., v. SM Energy Company, Case No. 2018-07160, in the 189th Judicial District of Harris County, Texas(the "Lawsuit"). Plaintiff SPM NAM LLC ("SPM") filed the Lawsuit against the Company on February 1, 2018. The Lawsuit concerned the Acquisition and Development Funding Agreement dated August 2, 2016 (together with its amendments, the "ADFA"). The parties to the ADFA (and its amendments) were the Company; SPM; and certain affiliates of SPM: (1) Schlumberger Technology Corporation; (2) Smith International, Inc.; (3) M-I, L.L.C.; and (4) Cameron International Corporation (the "Schlumberger Service Providers"). SPM and the Schlumberger Service Providers were the plaintiffs, and the Company was the defendant. The Company settled this matter on August 6, 2021.

ITEM 4. MINE SAFETY DISCLOSURES

These disclosures are not applicable to us.

PART II

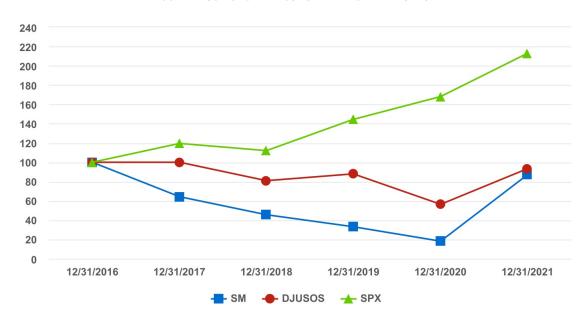
ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS, AND ISSUER PURCHASES OF EQUITY SECURITIES

Our common stock is currently traded on the New York Stock Exchange under the ticker symbol "SM." For dividend information, please refer to the caption *Uses of Cash* in *Overview of Liquidity and Capital Resources* Item 7 of this report. Information regarding the SM Energy Equity Incentive Compensation Plan, as amended and restated effective as of May 22, 2018 (the "Equity Plan"), and the securities authorized under the Equity Plan is included below.

PERFORMANCE GRAPH

The following performance graph compares the cumulative return on our common stock, for the period beginning December 31, 2016, and ending December 31, 2021, with the cumulative total returns of the Dow Jones Exploration and Production Index ("DJUSOS"), and the Standard & Poor's 500 Stock Index ("SPX").

COMPARISON OF 5-YEAR CUMULATIVE TOTAL RETURNS



The preceding information under the caption Performance Graph shall be deemed to be furnished, but not filed with the SEC.

Holders. As of February 10, 2022, the number of record holders of our common stock was 100. A substantially greater number of holders of our common stock are beneficial holders, whose shares of record are held by banks, brokers, and other financial institutions.

Purchases of Equity Securities by Issuer and Affiliated Purchasers. The following table provides information about purchases made by us and any affiliated purchaser (as defined in Rule 10b-18(a)(3) under the Exchange Act) during the indicated quarters and year ended December 31, 2021, of shares of our common stock, which is the sole class of equity securities registered by us pursuant to Section 12 of the Exchange Act.

PURCHASES OF EQUITY SECURITIES BY ISSUER AND AFFILIATED PURCHASERS

Period	Total Number of Shares Purchased ⁽¹⁾	ighted Average e Paid per Share	Total Number of Shares Purchased as Part of Publicly Announced Program	Maximum Number of Shares that May Yet be Purchased Under the Program ⁽²⁾
First quarter of 2021	_	_	_	3,072,184
Second quarter of 2021	_	_	_	3,072,184
Third quarter of 2021	219,462	\$ 21.56	_	3,072,184
10/01/2021 - 10/31/2021	_	_	_	3,072,184
11/01/2021 - 11/30/2021	_	_	_	3,072,184
12/01/2021 - 12/31/2021	143,806	30.18	_	3,072,184
Total	363,268	\$ 24.97		3,072,184

⁽¹⁾ All shares purchased by us in 2021 were to offset tax withholding obligations that occurred upon the delivery of outstanding shares underlying Restricted Stock Units ("RSU" or "RSUs") and Performance Share Units ("PSU" or "PSUs") issued under the terms of award agreements granted under the Equity Plan.

ITEM 6. [RESERVED]

In July 2006, our Board of Directors approved an increase in the number of shares of common stock that may be repurchased under the original August 1998 authorization to 6,000,000 as of the effective date of the resolution. Accordingly, as of the filing of this report, subject to the approval of our Board of Directors, we may repurchase up to 3,072,184 shares of common stock on a prospective basis. The shares may be repurchased from time to time in open market transactions or privately negotiated transactions, subject to market conditions and other factors, including certain provisions of our Credit Agreement, the indentures governing our Senior Notes, as defined in Note 5 – Long-Term Debt in Part II, Item 8 of this report, and compliance with securities laws. Stock repurchases may be funded with existing cash balances, internal cash flows, or borrowings under our Credit Agreement. The stock repurchase program may be suspended or discontinued at any time. During 2021, we did not repurchase any shares of our common stock.

ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

The following discussion includes forward-looking statements. Please refer to the Cautionary Information about Forward-Looking Statements section of this report for important information about these types of statements.

Overview of the Company

General Overview

Our purpose is to make people's lives better by responsibly producing energy supplies, contributing to domestic energy security and prosperity, and having a positive impact in the communities where we live and work. Our short-term operational and financial goals include generating positive cash flows while strengthening our balance sheet through absolute debt reduction and improved leverage metrics, and increasing the value of our capital project inventory through exploration and development optimization. Our long-term vision is to sustainably grow value for all of our stakeholders. We believe that in order to accomplish this vision, we must be a premier operator of top-tier oil and gas assets. Our strategy for achieving these goals is to focus on high-quality economic drilling, completion, and production opportunities. Our investment portfolio is comprised of oil and gas producing assets in the state of Texas, specifically in the Midland Basin of West Texas and in the Maverick Basin of South Texas.

We are committed to exceptional safety, health, and environmental stewardship; supporting the professional development of a diverse and thriving team of employees; making a positive impact in the communities where we live and work; and transparency in reporting our progress in these areas. The Environmental, Social and Governance Committee of our Board of Directors oversees, among other things, the development and implementation of the Company's ESG policies, programs and initiatives, and, together with management, reports to our Board of Directors regarding such matters. Further demonstrating our commitment to sustainable operations and environmental stewardship, compensation for our executives and eligible employees under our long-term incentive plan, and compensation for all employees under our short-term incentive plan is calculated based on, in part, certain Company-wide performance-based metrics that include key financial, operational, and environmental, health, and safety measures. Please refer to our Definitive Proxy Statement on Schedule 14A for the 2022 annual meeting of stockholders to be filed within 120 days from December 31, 2021 for additional discussion

The markets for the commodities produced by our industry strengthened in 2021 as a result of increased demand outpacing increased supply for each of the commodities we produce. Prices for the commodities produced by our industry improved from historic lows in 2020, with oil and natural gas prices reaching their highest average annual price since 2014. However, commodity markets remain subject to heightened levels of uncertainty related to the Pandemic and escalating tensions between Russia and Ukraine. Russian military incursion into Ukraine could give rise to regional instability and result in heightened economic sanctions by the U.S. and the international community that, in turn, could increase uncertainty with respect to global financial markets and production output from OPEC+ and other oil producing nations. Additionally, the Pandemic remains a global health crisis and continues to evolve. Despite the emergence of new variants, deployment of vaccines and vaccine boosters to slow the spread of the COVID-19 virus has resulted in substantial improvements in global financial markets and public health. Disruption in financial and commodity markets and industry-specific impacts could result from future case surges, outbreaks, COVID-19 virus variants, the potential that current vaccines may be less effective or ineffective against future COVID-19 virus variants, and the risk that large groups of the population may not receive vaccinations against COVID-19, and as a result, may require us to adjust our business plan. Despite continuing impacts of the Pandemic, geopolitical issues, and future uncertainty, we expect to maintain our ability to sustain strong operational performance and financial stability while maximizing returns, improving leverage metrics, and increasing the value of our top-tier Midland Basin and South Texas assets.

Throughout the Pandemic, the safety of our employees, contractors, and the communities where we work has remained our first priority. While our core business operations require certain individuals to be physically present at well site locations, the majority of our office-based employees have worked remotely since the onset of the Pandemic, in order to limit physical interactions and to mitigate the spread of COVID-19. We maintain and continually assess procedures designed to limit the spread of COVID-19, and we continue to communicate to and train all of our employees regarding best practices for maintaining a healthy and safe work environment. We believe that we meet or exceed Centers for Disease Control and Prevention and OSHA guidelines related to the prevention of the transmission of COVID-19. Throughout the Pandemic, we have operated without significant disruptions to our business, and we believe that our pre-existing control environment and internal controls continue to be effective.

2021 Financial and Operational Highlights

We remain focused on maximizing returns and increasing the value of our top-tier Midland Basin and South Texas assets. We expect to do this through continued development optimization and further delineation of our Midland Basin assets and through further development of our Austin Chalk formation in South Texas. We believe our assets provide strong returns and are capable of providing for growth of internally generated cash flows while allowing for flexibility of production levels, which aligns with our priorities of reducing debt, improving leverage metrics and maintaining strong financial flexibility.

Financial and Operational Results. Average net daily equivalent production for the year ended December 31, 2021, increased 11 percent to 140.7 MBOE, compared with 126.9 MBOE for 2020, comprised of a 19 percent increase from our Midland Basin assets

and a two percent decrease from our South Texas assets. The total increase resulted from an increased number of completions, strong well performance, and our continued focus on operational execution. Realized prices for oil, gas, and NGLs increased 83 percent, 169 percent, and 141 percent, respectively, for the year ended December 31, 2021, compared with 2020. As a result of increased realized prices, oil, gas, and NGL production revenue increased 131 percent to \$2.6 billion for the year ended December 31, 2021, compared with \$1.1 billion for 2020. We recorded a net derivative loss of \$901.7 million for the year ended December 31, 2021, compared to a net derivative gain of \$161.6 million for 2020. These amounts include a derivative settlement loss of \$749.0 million for the year ended December 31, 2021, and a derivative settlement gain of \$351.3 million for the year ended December 31, 2020. Operational activities during the year ended December 31, 2021, resulted in the following financial and operational results:

- Net cash provided by operating activities of \$1.2 billion for the year ended December 31, 2021, which was in excess of net cash used in investing activities of \$667.2 million for the same period. Please refer to Analysis of Cash Flow Changes Between 2021 and 2020 and Between 2020 and 2019in Part II, Item 8 of this report below for additional discussion.
- A cash balance of \$332.7 million and no outstanding balance on the revolving credit facility as of December 31, 2021, compared with a revolving credit facility balance of \$93.0 million as of December 31, 2020.
- Net income of \$36.2 million, or \$0.29 per diluted share, for the year ended December 31, 2021, compared with a net loss of \$764.6 million, or \$6.72 per diluted share for 2020. Net income for the year ended December 31, 2021, was primarily a result of increased production volumes and improved pricing, substantially offset by net derivative losses of \$901.7 million. Please refer to Comparison of Financial Results and Trends Between 2021 and 2020 and Between 2020 and 2019 below for additional discussion regarding the components of net income (loss) for each period presented.
- Adjusted EBITDAX, a non-GAAP financial measure, for the year ended December 31, 2021, of \$1.2 billion, compared with \$975.4 million for 2020. Please refer to
 Non-GAAP Financial Measures below for additional discussion, including our definition of adjusted EBITDAX and reconciliations to net income (loss) and net cash
 provided by operating activities.
- Total estimated proved reserves as of December 31, 2021, increased 22 percent from December 31, 2020, to 492.0 MMBOE, of which, 58 percent were liquids (oil and NGLs) and 61 percent were proved developed reserves. We added 139.1 MMBOE through extensions and infill as a result of continued success in and further development of our Austin Chalk and Midland Basin assets, partially offset by 51.4 MMBOE of production during 2021 and the removal of 40.6 MMBOE of proved undeveloped reserves reclassified to unproved reserves categories as a result of development plan optimization. Our proved reserve life index increased to 9.6 years as of December 31, 2021, compared with 8.7 years as of December 31, 2020. Please refer to Reserves in Part I, Items 1 and 2 of this report for additional discussion. The standardized measure of discounted future net cash flows was \$7.0 billion as of December 31, 2021, compared with \$2.7 billion as of December 31, 2020, which was an increase of 160 percent year-over-year. Please refer to Supplemental Oil and Gas Information (unaudited) in Part II, Item 8 of this report for additional discussion.

Operational Activities. During 2021, we continued to experience strong well performance in the RockStar area of our Midland Basin position due to successful operational execution, enhanced completion designs, and execution of our development strategy to drill and complete long laterals resulting from successful infill leasing and acreage trades, which have increased the contiguous nature of our acreage position. A large portion of our water transportation and disposal needs continue to be satisfied by the water facilities we operate in a core area of our RockStar acreage. Our South Texas program benefited from successful development of the Austin Chalk formation and continued strong performance from Eagle Ford shale wells. Efficiency and optimization in completions and operations in both the Midland Basin and in South Texas continued throughout 2021, and effective partnerships with our key service providers have allowed us to maintain continuity of operations during the Pandemic.

Our Midland Basin program averaged three drilling rigs and two completion crews during 2021. We drilled 61 gross (49 net) wells and completed 97 gross (81 net) wells during 2021 and net equivalent production increased year-over-year by 18 percent to 34.4 MMBOE. Costs incurred during 2021 totaled \$433.8 million, or 60 percent of our total 2021 costs incurred. Drilling and completion activities within our RockStar and Sweetie Peck positions in the Midland Basin continue to focus primarily on developing the Spraberry and Wolfcamp formations.

Our South Texas program averaged one drilling rig and one completion crew during 2021. We drilled 32 gross (32 net) and completed 31 gross (28 net) wells during 2021 and net equivalent production decreased year-over-year by two percent to 16.9 MMBOE. Costs incurred during 2021 totaled \$240.7 million, or 34 percent of our total 2021 costs incurred. Drilling and completion activities in South Texas during 2021 were primarily focused on developing the Austin Chalk formation.

The table below provides a summary of changes in our drilled but not completed well count and current year drilling and completion activity in our operated programs for the year ended December 31, 2021:

	Midland	Basin	South 7	Гехаs	Total		
	Gross	Net	Gross	Net	Gross	Net	
Wells drilled but not completed at December 31, 2020 (1)	66	58	31	28	97	86	
Wells drilled	61	49	32	32	93	81	
Wells completed	(97)	(81)	(31)	(28)	(128)	(109)	
Other (2)	_	1	_	_	_	1	
Wells drilled but not completed at December 31, 2021 (3)	30	27	32	32	62	59	

⁽¹⁾ The South Texas drilled but not completed well count as of December 31, 2020, included 13 gross (13 net) wells that were not included in our five-year development plan, 12 of which were in the Eagle Ford shale.

Costs Incurred. Costs incurred in oil and gas property acquisition, exploration, and development activities, whether capitalized or expensed, are summarized as follows:

		For the Year Ended December 31, 2021					
		(in millions)					
Development costs	\$	583.5					
Exploration costs		125.4					
Acquisitions							
Proved properties		0.1					
Unproved properties		9.0					
Total, including asset retirement obligations (1)		718.0					

⁽¹⁾ Please refer to the caption Costs Incurred in Supplemental Oil and Gas Information (unaudited) in Part II, Item 8 of this report.

Production Results. The table below presents the disaggregation of our net production volumes by product type for each of our assets for the year ended December 31, 2021:

	Midland Basin	South Texas	Total
Net production volumes:			
Oil (MMBbl)	25.2	2.7	27.9
Gas (Bcf)	55.4	52.9	108.4
NGLs (MMBbl)	_	5.4	5.4
Equivalent (MMBOE)	34.4	16.9	51.4
Average net daily equivalent (MBOE per day)	94.4	46.4	140.7
Relative percentage	67 %	33 %	100 %

Note: Amounts may not calculate due to rounding.

Net equivalent production increased 11 percent for the year ended December 31, 2021, compared with 2020, comprised of an 18 percent increase from our Midland Basin assets and a two percent decrease from our South Texas assets. Please refer to Overview of Selected Production and Financial Information, Including Trendsand Comparison of Financial Results and Trends Between 2021 and 2020 and Between 2020 and 2019below for additional discussion on production.

⁽²⁾ Includes adjustments related to normal business activities, including working interest changes for existing drilled but not completed wells. Working interest changes can result from divestitures, joint development agreements, farm-outs, and other activities.

⁽³⁾ The South Texas drilled but not completed well count as of December 31, 2021, includes 11 gross (11 net) wells that are not included in our five-year development plan, 10 of which are in the Eagle Ford shale.

Oil, Gas, and NGL Prices

Our financial condition and the results of our operations are significantly affected by the prices we receive for our oil, gas, and NGL production, which can fluctuate dramatically. When we refer to realized oil, gas, and NGL prices below, the disclosed price represents the average price for the respective period, before the effect of derivative settlements. While quoted NYMEX oil and gas and OPIS NGL prices are generally used as a basis for comparison within our industry, the prices we receive are affected by quality, energy content, location and transportation differentials, and contracted pricing benchmarks for these products.

The following table summarizes commodity price data, as well as the effects of derivative settlements, for the years ended December 31, 2021, 2020, and 2019:

For the Veers Ended December 24

	For the Years Ended December 31,					
	 2021		2020		2019	
Oil (per Bbl):	 					
Average NYMEX contract monthly price	\$ 67.92	\$	39.40	\$	57.03	
Realized price	\$ 67.72	\$	37.08	\$	54.10	
Effect of oil derivative settlements	\$ (18.73)	\$	14.40	\$	(0.90)	
Gas:						
Average NYMEX monthly settle price (per MMBtu)	\$ 3.84	\$	2.08	\$	2.63	
Realized price (per Mcf)	\$ 4.85	\$	1.80	\$	2.39	
Effect of gas derivative settlements (per Mcf)	\$ (1.41)	\$	0.11	\$	0.21	
NGLs (per Bbl):						
Average OPIS price (1)	\$ 36.65	\$	17.96	\$	22.34	
Realized price	\$ 33.67	\$	13.96	\$	17.26	
Effect of NGL derivative settlements	\$ (13.68)	\$	1.28	\$	4.43	

⁽¹⁾ Average OPIS prices per barrel of NGL, historical or strip, assumes a composite barrel product mix of 37% Ethane, 32% Propane, 6% Isobutane, 11% Normal Butane, and 14% Natural Gasoline for all periods presented. This product mix represents the industry standard composite barrel and does not necessarily represent our product mix for NGL production. Realized prices reflect our actual product mix.

Commodity prices in 2021 significantly improved from historic lows experienced in 2020 as a result of the misalignment of supply and demand caused by the Pandemic and other macroeconomic events. Given the dynamic nature of the Pandemic, uncertainty surrounding the escalating tensions between Russia and Ukraine, and the potential impacts to global commodity and financial markets, we expect future benchmark prices for oil, gas, and NGLs to remain volatile for the foreseeable future, and we cannot reasonably predict the timing or likelihood of any future impacts that may result. In addition to supply and demand fundamentals, as a global commodity, the price of oil is affected by real or perceived geopolitical risks in various regions of the world as well as the relative strength of the United States dollar compared to other currencies. Our realized prices at local sales points may also be affected by infrastructure capacity in the area of our operations and beyond.

The following table summarizes 12-month strip prices for NYMEX WTI oil, NYMEX Henry Hub gas, and OPIS NGLs as of February 10, 2022, and December 31, 2021:

	As o	February 10, 2022	As of December 31, 2021		
NYMEX WTI oil (per Bbl)	\$	83.82	\$	72.89	
NYMEX Henry Hub gas (per MMBtu)	\$	4.15	\$	3.69	
OPIS NGLs (per Bbl)	\$	41.29	\$	37.02	

We use financial derivative instruments as part of our financial risk management program. We have a financial risk management policy governing our use of derivatives, and decisions regarding entering into commodity derivative contracts are overseen by a financial risk management committee consisting of certain senior executive officers and finance personnel. We make decisions about the amount of our expected production that we cover by derivatives based on the amount of debt on our balance sheet, the level of capital commitments and long-term obligations we have in place, and the terms and futures prices that are made available by our approved counterparties. With our current commodity derivative contracts, we believe we have partially reduced our exposure to volatility in commodity prices and basis differentials in the near term. Our use of costless collars for a portion of our derivatives allows

us to participate in some of the upward movements in oil and gas prices while also setting a price floor below which we are insulated from further price decreases. Please refer to *Note 10 – Derivative Financial Instruments* in Part II, Item 8 of this report and to *Commodity Price Risk* in *Overview of Liquidity and Capital Resources* below for additional information regarding our oil, gas, and NGL derivatives.

Outlook

Our total 2022 capital program, which we expect to fund with cash flows from operations, is expected to be approximately \$750.0 million. We expect to focus our 2022 capital program on highly economic oil development projects in both our Midland Basin assets and our South Texas assets.

Financial Results of Operations and Additional Comparative Data

The tables below provide information regarding selected production and financial information for the three months ended December 31, 2021, and the preceding three quarters.

	For the Three Months Ended									
	Dec	ember 31,	S	eptember 30,		June 30,		March 31,		
		2021		2021	2021			2021		
				(in mi	llion	s)				
Net equivalent production (MMBOE)		14.6		14.3		12.4		10.0		
Oil, gas, and NGL production revenue	\$	852.4	\$	759.8	\$	562.6	\$	423.2		
Oil, gas, and NGL production expense	\$	143.3	\$	135.7	\$	125.5	\$	100.9		
Depletion, depreciation, amortization, and asset retirement obligation liability accretion	\$	200.0	\$	202.7	\$	204.7	\$	167.0		
Exploration	\$	12.6	\$	8.7	\$	8.7	\$	9.3		
General and administrative	\$	37.1	\$	25.5	\$	24.6	\$	24.7		
Net income (loss)	\$	424.9	\$	85.6	\$	(223.0)	\$	(251.3)		

Note: Amounts may not calculate due to rounding.

Selected Performance Metrics

	For the Three Months Ended									
	De	December 31, 2021		eptember 30, 2021	June 30, 2021			March 31, 2021		
Average net daily equivalent production (MBOE per day)		158.3		155.8		136.5		111.6		
Lease operating expense (per BOE)	\$	4.21	\$	4.20	\$	4.62	\$	4.64		
Transportation costs (per BOE)	\$	2.61	\$	2.41	\$	3.01	\$	2.94		
Production taxes as a percent of oil, gas, and NGL production revenue		4.8 %		4.7 %		4.5 %		4.6 %		
Ad valorem tax expense (per BOE)	\$	0.22	\$	0.38	\$	0.45	\$	0.52		
Depletion, depreciation, amortization, and asset retirement obligation liability accretion (per BOE)	\$	13.74	\$	14.14	\$	16.48	\$	16.62		
General and administrative (per BOE)	\$	2.55	\$	1.78	\$	1.98	\$	2.46		

Note: Amounts may not calculate due to rounding.

		Fo		Years En		I	Amount Change Between			Between	Percent Change Between		
	_	2021		2020		2019	2	021/2020	2	020/2019	2021/2020	2020/2019	
Net production volumes:(1)							_						
Oil (MMBbl)		27.9		23.0		21.9		4.9		1.1	21 %	5 %	
Gas (Bcf)		108.4		103.9		109.8		4.5		(5.9)	4 %	(5)%	
NGLs (MMBbl)		5.4		6.1		8.1		(0.7)		(2.0)	(12)%	(25)%	
Equivalent (MMBOE)		51.4		46.4		48.3		4.9		(1.9)	11 %	(4)%	
Average net daily production: (1)													
Oil (MBbl per day)		76.5		62.9		59.9		13.6		3.0	22 %	5 %	
Gas (MMcf per day)		296.9		283.9		300.8		13.0		(17.0)	5 %	(6)	
NGLs (MBbl per day)		14.7		16.7		22.2		(2.0)		(5.6)	(12)%	(25)	
Equivalent (MBOE per day)		140.7		126.9		132.3		13.9		(5.4)	11 %	(4)	
Oil, gas, and NGL production revenue (i	n m	illions): (1)											
Oil production revenue	\$	1,891.8	\$	853.6	\$	1,183.2	\$	1,038.3	\$	(329.6)	122 %	(28)	
Gas production revenue		525.5		187.5		262.5		338.0		(75.1)	180 %	(29)	
NGL production revenue		180.6		85.2		140.0		95.4		(54.8)	112 %	(39)	
Total oil, gas, and NGL production revenue	\$	2,597.9	\$	1,126.2	\$	1,585.8	\$	1,471.7	\$	(459.6)	131 %	(29)%	
Oil, gas, and NGL production expense (i	in m	nillions): (1)											
Lease operating expense	\$	225.5	\$	184.2	\$	225.5	\$	41.2	\$	(41.3)	22 %	(18)%	
Transportation costs		139.4		142.0		187.1		(2.6)		(45.1)	(2)%	(24)%	
Production taxes		121.1		46.1		65.0		75.0		(18.9)	163 %	(29)	
Ad valorem tax expense		19.4	_	18.9	_	23.1		0.5		(4.2)	3 %	(18)	
Total oil, gas, and NGL production expense	\$	505.4	\$	391.2	\$	500.7	\$	114.2	\$	(109.5)	29 %	(22)%	
Realized price:													
Oil (per Bbl)	\$	67.72	\$	37.08	\$	54.10	\$	30.64	\$	(17.02)	83 %	(31)%	
Gas (per Mcf)	\$	4.85	\$	1.80	\$	2.39	\$	3.05	\$	(0.59)	169 %	(25)	
NGLs (per Bbl)	\$	33.67	\$	13.96	\$	17.26	\$	19.71	\$	(3.30)	141 %	(19)	
Per BOE	\$	50.58	\$	24.26	\$	32.84	\$	26.32	\$	(8.58)	108 %	(26)	
Per BOE data: (1)													
Oil, gas, and NGL production expense:													
Lease operating expense	\$	4.39	\$	3.97	\$	4.67	\$	0.42	\$	(0.70)	11 %	(15)9	
Transportation costs		2.71		3.06		3.88		(0.35)		(0.82)	(11)%	(21)	
Production taxes		2.36		0.99		1.35		1.37		(0.36)	138 %	(27)	
Ad valorem tax expense		0.38		0.41		0.48		(0.03)		(0.07)	(7)%	(15)9	
Total oil, gas, and NGL productio expense	\$	9.84	\$	8.43	\$	10.38	\$	1.41	\$	(1.95)	17 %	(19)	
Depletion, depreciation, amortization and asset retirement obligation liability accretion	, \$	15.08	\$	16.91	\$	17.06	\$	(1.83)	\$	(0.15)	(11)%	(1)%	
General and administrative	\$	2.18	\$	2.14	\$	2.75	\$	0.04	\$	(0.13)	2 %	(22)	
Derivative settlement gain (loss) (2)	\$	(14.58)	\$	7.57	\$	0.81	\$	(22.15)	\$	6.76	(293)%	835 9	
Earnings per share information (in thous		` '	•		-	0.01	Ψ	(22.13)	Ψ	0.70	(233)/0	000	
Basic weighted-average common shares outstanding	an it	119,043	, oi 3	113,730		112,544		5,313		1,186	5 %	1 9	
Diluted weighted-average common shares outstanding		123,690		113,730		112,544		9,960		1,186	9 %	19	
Basic net income (loss) per common share	\$	0.30	\$	(6.72)	\$	(1.66)	\$	7.02	\$	(5.06)	104 %	(305)	
Diluted net income (loss) per commo share	n \$	0.29	\$	(6.72)	\$	(1.66)	\$	7.01	\$	(5.06)	104 %	(305)%	

Average net daily equivalent production for the year ended December 31, 2021, increased 11 percent compared with 2020, comprised of a 19 percent increase from our Midland Basin assets and a two percent decrease from our South Texas assets. The total increase resulted from an increased number of completions, strong well performance, and our continued focus on operational execution. In 2022, we expect total production volumes to remain relatively flat compared with 2021, and we expect oil volumes as a percentage of our total production mix to decrease due to increased capital allocation to our Austin Chalk assets and timing of Midland Basin completions. Please refer to Comparison of Financial Results and Trends Between 2021 and 2020 and Between 2020 and 2019below for additional discussion.

We present certain information on a per BOE basis in order to evaluate our performance relative to our peers and to identify and measure trends we believe may require additional analysis and discussion.

Our realized price on a per BOE basis increased \$26.32 for the year ended December 31, 2021, compared with 2020, primarily as a result of higher benchmark commodity prices which have improved from historic lows experienced during 2020 as a result of the impacts of the Pandemic and other macroeconomic events. Further contributing to the increase were improved gas prices during the first quarter of 2021 resulting from a supply and demand imbalance caused by a significant cold weather event in the state of Texas that lasted for several days in February 2021. The positive impact on oil, gas, and NGL production revenues resulting from the year-over-year realized price increase was substantially offset by a 293 percent change in the settlement of our derivative contracts which were a loss of \$14.58 per BOE for the year ended December 31, 2021, compared to a gain of \$7.57 per BOE for 2020.

LOE on a per BOE basis increased 11 percent for the year ended December 31, 2021, compared with 2020, driven by the increased percentage of oil in our total product mix, which has higher lifting costs per BOE, and increased workover expense. For 2022, we expect LOE on a per BOE basis to slightly increase, compared with 2021, primarily as a result of anticipated increases in service provider costs and workover activity, which we expect to be partially offset by a shift in activity toward the Austin Chalk. We anticipate volatility in LOE on a per BOE basis as a result of changes in total production, changes in our overall production mix, timing of workover projects, and industry activity, all of which impact total LOE.

Transportation costs on a per BOE basis decreased 11 percent for the year ended December 31, 2021, compared with 2020. This decrease was driven by transportation contract cost reductions during the second half of 2021, and a two percent decrease in net equivalent production from our South Texas assets, which incur the majority of our transportation costs. In general, we expect total transportation costs to fluctuate relative to changes in gas and NGL production from our South Texas assets. For 2022, we expect transportation costs on a per BOE basis to increase compared with 2021.

Production tax expense on a per BOE basis for the year ended December 31, 2021, increased 138 percent compared with 2020, primarily driven by increases in realized prices and an increase in production from our Midland Basin assets. Our overall production tax rate was 4.7 percent and 4.1 percent for the years ended December 31, 2021, and 2020, respectively. We generally expect production tax expense to correlate with oil, gas, and NGL production revenue on an absolute and per BOE basis. Product mix, the location of production, and incentives to encourage oil and gas development can also impact the amount of production tax expense that we recognize.

Ad valorem tax expense on a per BOE basis decreased seven percent for the year ended December 31, 2021, compared with 2020, primarily as a result of increased production and changes to the expected value assessments of our producing properties. We anticipate volatility in ad valorem tax expense on a per BOE and absolute basis as the valuation of our producing properties changes.

Depletion, depreciation, amortization, and asset retirement obligation liability accretion ("DD&A") expense on a per BOE basis decreased 11 percent for the year ended December 31, 2021, compared with 2020, as a result of strong well performance, increased estimated proved reserves, lower well costs in our Midland Basin assets, and the reduction in the depletable cost basis of our South Texas proved oil and gas properties as a result of proved property impairments recognized during the first quarter of 2020. Our DD&A rate fluctuates as a result of impairments, divestiture activity, carrying cost funding and sharing arrangements with third parties, changes in our production mix, and changes in our total estimated proved reserve volumes. We expect DD&A expense per BOE and DD&A expense on an absolute basis to decrease in 2022, compared with 2021, primarily as a result of increased estimated proved reserves, strong well performance, and increased activity in our Austin Chalk program, as these assets have a lower DD&A rate than our Midland Basin assets.

General and administrative ("G&A") expense on a per BOE basis increased two percent for the year ended December 31, 2021, compared with 2020. This increase was primarily driven by increased compensation expense partially offset by increased production. Certain components of G&A expense, and G&A expense on a per BOE basis, are impacted by the Company's full year performance against performance targets established at the beginning of the year and therefore are subject to variability. For 2022, we expect G&A expense to slightly decrease on an absolute basis and to decrease on a per BOE basis, compared with 2021.

⁽¹⁾ Amounts and percentage changes may not calculate due to rounding.

⁽²⁾ Derivative settlements for the years ended December 31, 2021, 2020, and 2019, are included within the net derivative (gain) loss line item in the accompanying consolidated statements of operations ("accompanying statements of operations").

⁽³⁾ Please refer to Note 9 - Earnings Per Share in Part II, Item 8 of this report for additional discussion.

Please refer to Comparison of Financial Results and Trends Between 2021 and 2020 and Between 2020 and 2019 for additional discussion of operating expenses.

Comparison of Financial Results and Trends Between 2021 and 2020 and Between 2020 and 2019

Please refer to Comparison of Financial Results and Trends Between 2020 and 2019 and Between 2019 and 2018 in Management's Discussion and Analysis of Financial Condition and Results of Operations in Part II, Item 7 of our 2020 Annual Report on Form 10-K, filed with the SEC on February 18, 2021, for a detailed discussion of certain comparisons of our financial results and trends for the year ended December 31, 2020, compared with the year ended December 31, 2019.

Average net daily equivalent production, production revenue, and production expense

The following table presents the changes in our average net daily equivalent production, production revenue, and production expense, by area, between the years ended December 31, 2021, and 2020:

	Net Equivalent Production Increase (Decrease)		Production Revenue Increase	Production Expense Increase			
	(MBOE per day)		(in millions)		(in millions)		
Midland Basin	14.9	\$	1,148.8	\$	95.0		
South Texas	(1.0)		322.9		19.2		
Total	13.9	\$	1,471.7	\$	114.2		

Note: Amounts may not calculate due to rounding.

Average net daily equivalent production volumes for the year ended December 31, 2021, increased 11 percent compared with 2020, comprised of a 19 percent increase from our Midland Basin assets, and a two percent decrease from our South Texas assets. Realized prices for oil, gas, and NGLs increased 83 percent, 169 percent, and 141 percent, respectively, for the year ended December 31, 2021, compared with 2020. As a result of increased production and improved pricing, production revenue for oil, gas, and NGLs increased 131 percent for the year ended December 31, 2021, compared with 2020. Total production expense for the year ended December 31, 2021, increased 29 percent, compared with 2020, primarily as a result of increased production taxes and LOE.

The following table presents the changes in our average net daily equivalent production, production revenue, and production expense, by area, between the years ended December 31, 2020, and 2019:

	Net Equivalent Production Increase (Decrease)		Production Revenue Decrease	Production Expense Decrease			
	(MBOE per day)		(in millions)		(in millions)		
Midland Basin	7.5	\$	(316.2)	\$	(34.1)		
South Texas	(12.9)		(143.4)		(75.4)		
Total	(5.4)	\$	(459.6)	\$	(109.5)		

Note: Amounts may not calculate due to rounding.

Average net daily equivalent production volumes for the year ended December 31, 2020, decreased four percent compared with 2019. Realized prices for oil, gas, and NGLs decreased 31 percent, 25 percent, and 19 percent, respectively, for the year ended December 31, 2020, compared with 2019. As a result of decreased production and pricing, production revenue for oil, gas, and NGLs decreased 29 percent for the year ended December 31, 2020, compared with 2019. Total production expense for the year ended December 31, 2020, decreased 22 percent compared with 2019.

Please refer to Overview of Selected Production and Financial Information, Including Trendsfor additional discussion, including discussion of trends on a per BOE basis.

Depletion, depreciation, amortization, and asset retirement obligation liability accretion

	For the Years Ended December 31,						
	2021		2020		2019		
		(i	n millions)				
Depletion, depreciation, amortization, and asset retirement obligation liability accretion \$	774.4	\$	785.0	\$	823.8		

DD&A expense for the year ended December 31, 2021, remained flat compared with 2020. DD&A expense for the year ended December 31, 2020, decreased five percent compared with 2019, primarily as a result of the reduction in the depletable cost basis of our South Texas proved oil and gas properties as a result of proved property impairments recognized during the first quarter of 2020, partially offset by higher production from our oil producing Midland Basin assets that have higher depletion rates than our primarily gas and NGL producing South Texas assets. Please refer to Overview of Selected Production and Financial Information, Including Trendsabove for discussion of DD&A expense on a per BOE basis.

Exploration

	For the Years Ended December 31,										
		2021		2020		2019					
	(in millions)										
Geological and geophysical expenses	\$	1.2	\$	4.3	\$	2.9					
Exploratory dry hole		_		_		4.8					
Overhead and other expenses		38.1		36.7		43.8					
Total	\$	39.3	\$	41.0	\$	51.5					

Exploration expense decreased four percent for the year ended December 31, 2021, compared with 2020, primarily as a result of decreases in geological and geophysical expenses. Exploration expense is impacted by actual geological and geophysical studies we perform within an exploratory area and unsuccessful exploration activities, if any.

Impairment

	For the Years Ended December 31,										
		2021		2019							
Impairment of proved oil and gas properties and related support equipment	\$	_	\$	956.7	\$	_					
Abandonment and impairment of unproved properties		35.0		59.3		33.8					
Total	\$	35.0	\$	1,016.0	\$	33.8					

During the year ended December 31, 2020, we recorded impairment expense related to our South Texas proved oil and gas properties and related support facilities as a result of the decrease in commodity price forecasts at the end of the first quarter of 2020, specifically decreases in oil and NGL prices. There were no proved oil and gas impairments recorded during 2021 or 2019.

Unproved property abandonments and impairments recorded during the years ended December 31, 2021, 2020, and 2019, related to actual and anticipated lease expirations, as well as actual and anticipated losses of acreage due to title defects, changes in development plans, and other inherent acreage risks.

We expect proved property impairments to occur more frequently in periods of declining or depressed commodity prices, and that the frequency of unproved property abandonments and impairments will fluctuate with the timing of lease expirations or title defects, and changing economics associated with decreases in commodity prices. Additionally, changes in drilling plans, unsuccessful exploration activities, and downward engineering revisions may result in proved and unproved property impairments.

Reserve estimates and related impairments of proved and unproved properties are difficult to predict in a volatile price environment. If commodity prices for the products we produce decline as a result of supply and demand fundamentals associated with the Pandemic or other macroeconomic events, we may experience additional proved and unproved property impairments in the future. Future impairments of proved and unproved properties are difficult to predict; however, based on our commodity price assumptions as

of February 10, 2022, we do not expect any material oil and gas property impairments in the first quarter of 2022 resulting from commodity price impacts.

Please refer to Critical Accounting Policies and Estimates below and Note 8 - Fair Value Measurements in Part II, Item 8 of this report for additional discussion.

General and administrative

	For the Years Ended December 31,								
	 2021		2020		2019				
		(in	millions)						
General and administrative	\$ 111.9	\$	99.2	\$	132.8				

G&A expense increased 13 percent for the year ended December 31, 2021, compared with 2020, primarily as a result of increased compensation expense incurred during the year. G&A expense decreased 25 percent for the year ended December 31, 2020, compared with 2019, primarily due to reduced overhead costs resulting from the reorganization of certain functions in the fourth quarter of 2019 that eliminated duplicative regional operational functions, as well as actions taken to reduce costs as a result of the Pandemic. Please refer to Overview of Selected Production and Financial Information, Including Trendsabove for discussion of G&A expense.

Net derivative (gain) loss

		For the Years Ended December 31, 2021 2020 2019								
	<u></u>	2021		2020		2019				
			(ir	n millions)						
Net derivative (gain) loss	\$	901.7	\$	(161.6)	\$	97.5				

Net derivative (gain) loss is a result of changes in derivative fair values associated with fluctuations in the forward price curves for the commodities underlying our outstanding derivative contracts and the monthly cash settlements of our derivative positions during the period. The net derivative loss for the year ended December 31, 2021, resulted from increases in benchmark commodity prices during 2021. The net derivative gain for the year ended December 31, 2020, resulted from decreases in benchmark commodity prices during 2020. Please refer to *Note 10 – Derivative Financial Instruments* in Part II, Item 8 of this report for additional discussion.

Other operating expense, net

	For the Years Ended December 31,									
	 2021		2019							
		(in	millions)							
Other operating expense, net	\$ 46.1	\$	24.8	\$	19.9					

Other operating expense, net, increased for the year ended December 31, 2021, compared with 2020, as a result of legal settlements recorded during 2021, including the settlement of the SPM NAM LLC et al. case disclosed in *Legal Proceedings* in Part I, Item 3 of this report.

Interest expense

	For the	Years E	Ended Decei	nber	31,
	 2021		2020		2019
		(in	millions)		
Interest expense	\$ (160.4)	\$	(163.9)	\$	(159.1)

Interest expense decreased two percent for the year ended December 31, 2021, compared with 2020. In 2022, we expect interest expense related to our Senior Notes to decrease compared with 2021 as result of the reduction in the aggregate principal amount of Senior Secured Notes and Senior Unsecured Notes through various transactions in 2021 and 2022. Total interest expense is impacted by, and can vary based on, the timing and amount of borrowings under our revolving credit facility. Please refer to Overview of Liquidity and Capital Resources below, and to Note 5 – Long-Term Debt in Part II, Item 8 of this report for additional discussion, including the definitions of Senior Notes, Senior Secured Notes, Senior Unsecured Notes, and 2028 Senior Notes.

	For the	Years	Ended Dece	mber	31,	
	 For the Years Ended 2021 2020 (in millior \$ (2.1) \$ 2			2019		
		(in	millions)			
Net gain (loss) on extinguishment of debt	\$ (2.1)	\$	280.1	\$		_

The Exchange Offers executed during the second quarter of 2020 resulted in a net gain on extinguishment of debt of \$227.3 million, which was primarily comprised of the gain on the partial principal redemption of Old Notes and the debt discount associated with the issuance of the 2025 Senior Secured Notes. Additionally, during the year ended December 31, 2020, we repurchased certain of our 2022 Senior Notes and 2024 Senior Notes in open market transactions, resulting in a net gain on extinguishment of debt of \$52.8 million. Please refer to Note 5 – Long-Term Debt in Part II, Item 8 of this report for additional discussion, including the definitions of Exchange Offers, Old Notes, 2025 Senior Secured Notes, 2022 Senior Notes, and 2024 Senior Notes.

Income tax (expense) benefit

	For the Years Ended December 31, 2021 2020 2019									
	 2021 2020 201									
	 (in	million	s, except tax	rate)						
Income tax (expense) benefit	\$ (9.9)	\$	192.1	\$	44.0					
Effective tax rate	21.5 %		20.1 %		19.1 %					

The increase in the effective tax rate for the year ended December 31, 2021, compared with 2020, was primarily due to the differing effects of permanent items on income before income taxes for the year ended December 31, 2021, compared to a loss before income taxes in 2020. During 2021, an additional valuation allowance recorded against tax effected net derivative liabilities partially offset by an excess tax benefit from stock-based compensation awards and other deferred tax adjustments, resulted in an increase in the tax rate year-over-year. The additional valuation allowance recorded against tax effected net derivative liabilities could reverse and decrease our effective tax rate in 2022, if commodity prices remain at or exceed their current levels and we generate cumulative net income. The United States Congress continues to work on separate provisions of the Build Back Better Act, however, as of the filing of this report, no legislation impacting the Internal Revenue Code ("IRC") has been passed. Changes to the IRC could eliminate or reduce certain oil and gas industry deductions and could increase the overall corporate income tax rate.

The increase in the effective tax rate for the year ended December 31, 2020, compared with 2019, was primarily due to the differing effects of permanent items on the loss before income taxes for each of the years ended December 31, 2020, and 2019. For the year ended December 31, 2020, the tax benefit rate increased compared with the same period in 2019 as a result of state permanent items reflecting state planning strategies. This increase was partially offset by the impact of the valuation allowance recorded on our deferred tax assets combined with the effects of excess tax deficiencies from stock-based compensation awards, limits on expensing of certain covered individuals' compensation, and other permanent expense items.

Please refer to Overview of Liquidity and Capital Resources and Critical Accounting Policies and Estimates below as well as Note 4 – Income Taxes in Part II, Item 8 of this report for further discussion.

Overview of Liquidity and Capital Resources

Based on the current commodity price environment, we believe we have sufficient liquidity and capital resources to execute our business plan while continuing to meet our current financial obligations. We continue to manage the duration and level of our drilling and completion service commitments in order to maintain flexibility with regard to our activity level and capital expenditures.

Sources of Cash

We expect our 2022 capital program to be funded by cash flows from operations. Although we expect cash flows from operations to be sufficient to fund our expected 2022 capital program, we may also use borrowings under our revolving credit facility or raise funds through new debt or equity offerings or from other sources of financing. If we raise additional funds through the issuance of equity or convertible debt securities, the percentage ownership of our current stockholders could be diluted, and these newly issued securities may have rights, preferences, or privileges senior to those of existing stockholders and bondholders. Additionally, we may enter into carrying cost and sharing arrangements with third parties for certain exploration or development programs. All of our sources of liquidity can be affected by the general conditions of the broader economy, force majeure events, fluctuations in commodity prices, operating costs, tax law changes, and volumes produced, all of which affect us and our industry.

Our credit ratings impact the availability of and cost for us to borrow additional funds. During the first half of 2021, three major credit rating agencies upgraded our credit ratings, citing our improved debt leverage and our expected ability to generate meaningful free cash flows, among other reasons. Additionally, one of these major credit rating agencies further upgraded our credit rating in conjunction with the issuance of our 2028 Senior Notes. Subsequent to December 31, 2021, and in consideration of the redemption of our 2024 Senior Notes on February 14, 2022, one major credit rating agency upgraded our credit rating, citing our priorities of continuing to reduce debt and improve our leverage metrics, and our expected ability to generate meaningful cash flows, among other reasons. Please refer to *Note 5 – Long-Term Debt* in Part II, Item 8 of this report for the definition of 2024 Senior Notes and 2028 Senior Notes.

We have no control over the market prices for oil, gas, and NGLs, although we may be able to influence the amount of our realized revenues from our oil, gas, and NGL sales through the use of derivative contracts as part of our commodity price risk management program. Commodity derivative contracts may limit the prices we receive for our oil, gas, and NGL sales if oil, gas, or NGL prices rise substantially over the price established by the commodity derivative contract. Please refer to *Note 10 – Derivative Financial Instruments* in Part II, Item 8 of this report for additional information about our oil, gas, and NGL derivative contracts currently in place and the timing of settlement of those contracts.

Credit Agreement

Our Credit Agreement provides for a senior secured revolving credit facility with a maximum loan amount of \$2.5 billion, and a borrowing base and aggregate lender commitments of \$1.1 billion. The borrowing base under the Credit Agreement is subject to regular, semi-annual redetermination, and considers the value of both our (a) proved oil and gas properties reflected in the most recent reserve report provided to our lenders under the Credit Agreement; and (b) commodity derivative contracts, each as determined by our lender group. During the fourth quarter of 2021, the fall semi-annual borrowing base redetermination was completed, which reaffirmed both our borrowing base and aggregate lender commitments at \$1.1 billion. The next borrowing base redetermination date is scheduled for April 1, 2022. Our borrowing base can be adjusted as a result of changes in commodity prices, acquisitions or divestitures of proved properties, or financing activities, all as provided for in the Credit Agreement. No individual bank participating in our Credit Agreement represents more than 10 percent of the lender commitments under the Credit Agreement. Please refer to *Note 5 – Long-Term Debt* in Part II, Item 8 of this report for additional discussion as well as the presentation of the outstanding balance, total amount of letters of credit, and available borrowing capacity under our Credit Agreement as of February 10, 2022, December 31, 2021, and December 31, 2020.

We must comply with certain financial and non-financial covenants under the terms of the Credit Agreement, including covenants limiting dividend payments and requiring that we maintain certain financial ratios, as set forth in the Credit Agreement. We were in compliance with all financial and non-financial covenants as of December 31, 2021, and through the filing of this report. Please refer to *Note 5 – Long-Term Debt* in Part II, Item 8 of this report for additional discussion.

As of December 31, 2021, we had no outstanding balance on our revolving credit facility. Our daily weighted-average revolving credit facility debt balance was \$106.0 million and \$145.6 million for the years ended December 31, 2021, and 2020, respectively. Cash flows provided by our operating activities, proceeds received from divestitures of properties, capital markets activities including open market debt repurchases, repayment of scheduled debt maturities, and our capital expenditures, including acquisitions, all impact the amount we borrow under our revolving credit facility.

Under our Credit Agreement, borrowings in the form of Eurodollar loans accrue interest based on LIBOR which was discontinued as a global reference rate for new loans and contracts after December 31, 2021. Our Credit Agreement specifies that if LIBOR is no longer a widely used benchmark rate, or if it is no longer used for determining interest rates for loans in the United States, a replacement interest rate that fairly reflects the cost to the lenders of funding loans shall be established by the Administrative Agent, as defined in the Credit Agreement, in consultation with us. During 2022, in advance of the maturity date of our existing Credit Agreement, we expect to enter into a new credit agreement that will, in addition to other negotiated terms, conditions, agreements, and other provisions, specify a new interest rate for Eurodollar loans. We currently do not expect to incur borrowings in the form of Eurodollar loans prior to that time, and we currently do not expect the transition from LIBOR to have a material impact on interest expense or borrowing activities under the Credit Agreement, or to otherwise have a material adverse impact on our business. Please refer to *Note 1 – Summary of Significant Accounting Policies* in Part II, Item 8 of this report for discussion of FASB ASU 2020-04 and ASU 2021-01, which provide guidance related to reference rate reform.

Weighted-Average Interest and Weighted-Average Borrowing Rates

Our weighted-average interest rate includes paid and accrued interest, fees on the unused portion of the aggregate commitment amount under the Credit Agreement, letter of credit fees, the non-cash amortization of deferred financing costs, and for the periods during which they were outstanding, the non-cash amortization of the discounts related to the 2021 Senior Secured Convertible Notes and 2025 Senior Secured Notes, each as defined in *Note 5 – Long-Term Debt* in Part II, Item 8 of this report. Our weighted-average borrowing rate includes paid and accrued interest only.

The following table presents our weighted-average interest rates and our weighted-average borrowing rates for the years ended December 31, 2021, 2020, and 2019:

	For the Years Ended December 31,									
	2021	2020	2019							
Weighted-average interest rate	7.7 %	7.0 %	6.4 %							
Weighted-average borrowing rate	6.8 %	6.1 %	5.7 %							

Our weighted-average interest rates and our weighted-average borrowing rates increased for the year ended December 31, 2021, compared with 2020, and for the year ended December 31, 2020, compared with 2019. These increases were primarily a result of the higher interest rate on our 2025 Senior Secured Notes issued during the second quarter of 2020.

Our weighted-average interest rate and weighted-average borrowing rate are impacted by the occurrence and timing of long-term debt issuances and redemptions and the average outstanding balance on our revolving credit facility. Additionally, our weighted-average interest rates are impacted by the fees paid on the unused portion of our aggregate lender commitments. The rates disclosed in the above table do not reflect amounts associated with the repurchase or redemption of Senior Notes, such as the acceleration of unamortized deferred financing costs, as these amounts are netted against the associated gain or loss on extinguishment of debt. The 2021 Senior Secured Convertible Notes were retired upon maturity on July 1, 2021. After this date, the weighted-average interest rate was no longer impacted by the non-cash amortization of deferred financing costs or the non-cash amortization of the discount related to the 2021 Senior Secured Convertible Notes. Please refer to Note 5 – Long-Term Debt in Part II, Item 8 of this report for additional discussion and definitions.

Uses of Cash

We use cash for the development, exploration, and acquisition of oil and gas properties and for the payment of operating and general and administrative costs, income taxes, dividends, and debt obligations, including interest. Expenditures for the development, exploration, and acquisition of oil and gas properties are the primary use of our capital resources. During 2021, we spent approximately \$678.2 million on capital expenditures and on acquiring proved and unproved oil and gas properties. This amount differs from the costs incurred amount of \$718.0 million for the year ended December 31, 2021, as costs incurred is an accrual-based amount that also includes asset retirement obligations, geological and geophysical expenses, and exploration overhead amounts. Please refer to Costs Incurred in Supplemental Oil and Gas Information (unaudited) in Part II, Item 8 of this report for additional discussion.

The amount and allocation of our future capital expenditures will depend upon a number of factors, including our cash flows from operating, investing, and financing activities, our ability to execute our development program, and the number and size of acquisitions that we complete. In addition, the impact of oil, gas, and NGL prices on investment opportunities, the availability of capital, tax law changes, and the timing and results of our exploration and development activities may lead to changes in funding requirements for future development. We periodically review our capital expenditure budget to assess if changes are necessary based on current and projected cash flows, acquisition and divestiture activities, debt requirements, and other factors.

Changes to the IRC could increase the corporate income tax rate and could eliminate or reduce current tax deductions for intangible drilling costs, depreciation of equipment costs, and other deductions which currently reduce our taxable income. Future legislation regarding these issues could reduce our net cash provided by operating activities over time, and could therefore result in a reduction of funding available for the items discussed above.

We may from time to time repurchase or redeem all or portions of our outstanding debt securities for cash, through exchanges for other securities, or a combination of both. Such repurchases or redemptions may be made in open market transactions, privately negotiated transactions, tender offers, pursuant to contractual provisions, or otherwise. Any such repurchases or redemptions will depend on prevailing market conditions, our liquidity requirements, contractual restrictions, compliance with securities laws, and other factors. The amounts involved in any such transaction may be material. During 2021, we issued our 2028 Senior Notes and with the proceeds, repurchased certain of our 2022 Senior Notes and 2024 Senior Notes through the Tender Offer. Subsequently, we redeemed the remaining 2022 Senior Notes then outstanding through the 2022 Senior Notes Redemption. The 2021 Senior Secured Convertible Notes matured on July 1, 2021, and on that day, we used borrowings under our revolving credit facility to retire, at par, the outstanding principal amount. During 2020, we completed the Exchange Offers and we repurchased certain of our 2022 Senior Notes and 2024 Senior Notes in open market transactions. As part of our strategy for 2022, we continue to focus on reducing absolute debt and improving our debt metrics and on February 14, 2022, we redeemed the remaining \$104.8 million of aggregate principal amount outstanding of our 2024 Senior Notes. Please refer to Note 5 – Long-Term Debt in Part II. Item 8 of this report for additional discussion and definitions.

As of the filing of this report, we could repurchase up to 3,072,184 shares of our common stock under our stock repurchase program, subject to the approval of our Board of Directors. Shares may be repurchased from time to time in the open market, or in privately negotiated transactions, subject to market conditions and other factors, including certain provisions of our Credit Agreement, the indentures governing each series of our outstanding Senior Notes, compliance with securities laws, and the terms and provisions of

our stock repurchase program. Our Board of Directors periodically reviews this program as part of the allocation of our capital. During 2021, we did not repurchase any shares of our common stock.

During the years ended December 31, 2021, 2020, and 2019, we paid \$2.4 million, \$2.3 million, and \$11.3 million, respectively, in dividends to our stockholders. These amounts reflect a bi-annual dividend of \$0.01 per share for each of the years ended December 31, 2021, and 2020, and a bi-annual dividend of \$0.05 per share for the year ended December 31, 2019. Our current intention is to continue to make dividend payments for the foreseeable future, subject to our future earnings, our financial condition, covenants under our Credit Agreement and indentures governing each series of our outstanding Senior Notes, other covenants, and other factors that could arise. The payment and amount of future dividends remains at the discretion of our Board of Directors.

Analysis of Cash Flow Changes Between 2021 and 2020 and Between 2020 and 2019

The following tables present changes in cash flows between the years ended December 31, 2021, 2020, and 2019, for our operating, investing, and financing activities. The analysis following each table should be read in conjunction with our accompanying consolidated statements of cash flows ("accompanying statements of cash flows") in Part II, Item 8 of this report.

Operating Activities

	For the Years Ended December 31,						Amount Change Between			
	2021		2020		2019	20	021/2020	20	20/2019	
				(in	millions)					
Net cash provided by operating activities	\$ 1,159.8	\$	790.9	\$	823.6	\$	368.9	\$	(32.7)	

Net cash provided by operating activities increased for the year ended December 31, 2021, compared with 2020, primarily as a result of a \$1.3 billion increase in cash received from oil, gas, and NGL production revenues, net of transportation costs and production taxes, partially offset by an increase of \$1.0 billion in cash paid on settled derivative trades.

Net cash provided by operating activities decreased for the year ended December 31, 2020, compared with 2019, primarily as a result of a \$316.9 million decrease in cash received from oil, gas, and NGL production revenues, net of transportation costs and production taxes, offset by an increase in cash received from settled derivative trades of \$290.7 million.

Net cash provided by operating activities is affected by working capital changes and the timing of cash receipts and disbursements.

Investing Activities

	 For the Years Ended December 31,						Amount Change Between			
	2021	1 2020 2019				2	2021/2020	2020/2019		
				(in	millions)					
Net cash used in investing activities	\$ (667.2)	\$	(555.6)	\$	(1,013.3)	\$	(111.6)	\$	457.7	

Net cash used in investing activities increased for the year ended December 31, 2021, compared with 2020, primarily as a result of increased capital expenditures of \$127.1 million. Net cash used in investing activities during the year ended December 31, 2021, was funded by net cash provided by operating activities.

Net cash used in investing activities decreased for the year ended December 31, 2020, compared with 2019, primarily as a result of reduced capital expenditures of \$476.0 million. Net cash used in investing activities during the year ended December 31, 2020, was funded by net cash provided by operating activities.

Financing Activities

		For the Years Ended December 31,						Amount Change Between			
		2021		2020		2019	2021/2020		20	020/2019	
	(in millions)										
Net cash provided by (used in) financing activities	\$	(159.8)	\$	(235.4)	\$	111.8	\$	75.6	\$	(347.2)	

During the year ended December 31, 2021, we paid \$385.3 million, including net premiums, to fund the Tender Offer and the 2022 Senior Notes Redemption, and we received net cash proceeds of \$392.8 million from the issuance of our 2028 Senior Notes.

Additionally, we paid \$65.5 million to retire our 2021 Senior Secured Convertible Notes and had net repayments under our revolving credit facility of \$93.0 million.

During the year ended December 31, 2020, we paid \$136.5 million to repurchase certain of our 2022 Senior Notes and 2024 Senior Notes in open market transactions, we paid \$53.5 million to certain holders of the 2021 Senior Secured Convertible Notes in connection with the Private Exchange, and we had net repayments under our revolving credit facility of \$29.5 million.

During the year ended December 31, 2019, we had net borrowings under our revolving credit facility of \$122.5 million.

Please refer to Note 5 - Long-Term Debt in Part II, Item 8 of this report for additional discussion and definitions.

Interest Rate Risk

We are exposed to market risk due to the floating interest rate associated with any outstanding balance on our revolving credit facility. As of December 31, 2021, we had no outstanding balance on our revolving credit facility. Our Credit Agreement allows us to fix the interest rate for all or a portion of the principal balance of our revolving credit facility for a period up to six months. To the extent that the interest rate is fixed, interest rate changes will affect the revolving credit facility's fair value but will not impact results of operations or cash flows. Conversely, for the portion of the revolving credit facility that has a floating interest rate, interest rate changes will not affect the fair value but will impact future results of operations and cash flows. Changes in interest rates do not impact the amount of interest we pay on our fixed-rate Senior Notes but can impact their fair values. As of December 31, 2021, our outstanding principal amount of fixed-rate debt totaled \$2.1 billion and we had no floating-rate debt outstanding. Please refer to Note 8 – Fair Value Measurements in Part II, Item 8 of this report for additional discussion on the fair values of our Senior Notes.

Commodity Price Risk

The prices we receive for our oil, gas, and NGL production directly impact our revenue, profitability, access to capital, and future rate of growth. Oil, gas, and NGL prices are subject to unpredictable fluctuations resulting from a variety of factors, including changes in supply and demand and the macroeconomic environment, and seasonal anomalies, all of which are typically beyond our control. The markets for oil, gas, and NGLs have been volatile, especially over the last several years. Commodity prices have improved from historic lows in 2020 resulting from the impacts of the Pandemic, however, future case surges, outbreaks, COVID-19 virus variants, the potential that current vaccines may be less effective or ineffective against future COVID-19 virus variants, and the risk that large groups of the population may not receive vaccinations against COVID-19, could have further negative impacts on prices. Additionally, commodity prices are subject to heightened levels of uncertainty related to geopolitical issues such as the escalating tensions between Russia and Ukraine. The realized prices we receive for our production also depend on numerous factors that are typically beyond our control. Based on our 2021 production, a 10 percent decrease in our average realized prices for oil, gas, and NGLs, would have reduced our oil, gas, and NGL production revenues by approximately \$189.2 million, \$52.5 million, and \$18.1 million, respectively. If commodity prices had been 10 percent lower, our net derivative settlements for the year ended December 31, 2021, would have offset the declines in oil, gas, and NGL production revenue by approximately \$189.2 million.

We enter into commodity derivative contracts in order to reduce the risk of fluctuations in commodity prices. The fair value of our commodity derivative contracts is largely determined by estimates of the forward curves of the relevant price indices. As of December 31, 2021, a 10 percent increase or decrease in the forward curves associated with our oil, gas, and NGL commodity derivative instruments would have changed our net derivative positions for these products by approximately \$94.3 million, \$17.1 million, and \$5.6 million, respectively.

Off-Balance Sheet Arrangements

We have not participated in transactions that generate relationships with unconsolidated entities or financial partnerships, such as entities often referred to as structured finance or special purpose entities ("SPE" or "SPEs"), which would have been established for the purpose of facilitating off-balance sheet arrangements or other contractually narrow or limited purposes.

We evaluate our transactions to determine if any variable interest entities exist. If we determine that we are the primary beneficiary of a variable interest entity, that entity is consolidated into our consolidated financial statements. We have not been involved in any unconsolidated SPE transactions during 2021 or 2020, or through the filing of this report.

Critical Accounting Policies and Estimates

Our discussion of financial condition and results of operations is based upon the information reported in our consolidated financial statements. The preparation of these consolidated financial statements in conformity with GAAP requires us to make assumptions and estimates that affect the reported amounts of assets, liabilities, revenues, and expenses, as well as the disclosure of contingent assets and liabilities as of the date of our consolidated financial statements. We base our assumptions and estimates on historical experience and various other sources that we believe to be reasonable under the circumstances. Actual results may differ from the estimates we calculate as a result of changes in circumstances, global economics and politics, and general business

conditions. A summary of our significant accounting policies is detailed in *Note 1 – Summary of Significant Accounting Policies* in Part II, Item 8 of this report. We have outlined below, those policies identified as being critical to the understanding of our business and results of operations and that require the application of significant management judgment.

Successful Efforts Method of Accounting. GAAP provides two alternative methods for the oil and gas industry to use in accounting for oil and gas producing activities. These two methods are generally known in our industry as the full cost method and the successful efforts method, and both methods are widely used. The methods are different enough that in many circumstances the same set of facts will provide materially different financial statement results within a given year. We have chosen the successful efforts method of accounting for our oil and gas producing activities. A more detailed description is included in Note 1 – Summary of Significant Accounting Policies of Part II, Item 8 of this report.

Oil and Gas Reserve Quantities. Our estimated proved reserve quantities and future net cash flows are critical to understanding the value of our business. They are used in comparative financial ratios and are the basis for significant accounting estimates in our consolidated financial statements, including the calculations of DD&A expense, impairment of proved and unproved oil and gas properties, and asset retirement obligations. Please refer to Oil and Gas Producing Activities in Note 1 – Summary of Significant Accounting Policies of Part II, Item 8 of this report for additional discussion on our accounting policies impacted by estimated reserve quantities.

Future cash inflows and future production and development costs are determined by applying prices and costs, including transportation, quality differentials, and basis differentials, applicable to each period to the estimated quantities of proved reserves remaining to be produced as of the end of that period. Expected cash flows are discounted to present value using an appropriate discount rate. For example, the standardized measure of discounted future net cash flows calculation requires that a 10 percent discount rate be applied. Although reserve estimates are inherently imprecise, and estimates of new discoveries and undeveloped locations are more imprecise than those of established producing oil and gas properties, we make a considerable effort in estimating our reserves. We engage Ryder Scott, an independent reservoir evaluation consulting firm, to audit a minimum of 80 percent of our total calculated proved reserve PV-10. We expect proved reserve estimates will change as additional information becomes available and as commodity prices and operating and capital costs change. We evaluate and estimate our proved reserves each year end. It should not be assumed that the standardized measure of discounted future net cash flows (GAAP) or PV-10 (non-GAAP) as of December 31, 2021, is the current market value of our estimated proved reserves. In accordance with SEC requirements, we based these measures on the unweighted arithmetic average of the first-day-of-the-month price of each month within the trailing 12-month period ended December 31, 2021. Actual future prices and costs may be materially higher or lower than the prices and costs utilized in the estimates. Please refer to *Risk Factors* in Part I, Item 1A of this report.

If the estimates of proved reserves decline, the rate at which we record DD&A expense will increase, which would reduce future net income. Changes in DD&A rate calculations caused by changes in reserve quantities are made prospectively. In addition, a decline in reserve estimates may impact the outcome of our assessment of proved and unproved properties for impairment. Impairments are recorded in the period in which they are identified.

The following table presents information about proved reserve changes from period to period due to items we do not control, such as price, and from changes due to production history and well performance. These changes do not require a capital expenditure on our part, but may have resulted from capital expenditures we incurred to develop other estimated proved reserves.

	For the Years Ended December 31,							
	2021	2020	2019					
	MMBOE Change	MMBOE Change	MMBOE Change					
Revisions resulting from performance	3.4	3.6	(14.9)					
Removal of proved undeveloped reserves no longer in our five-year development plan	(40.6)	(65.0)	(9.8)					
Revisions resulting from price changes	37.2	(32.6)	(70.0)					
Total		(94.0)	(94.7)					

Note: Amounts may not calculate due to rounding.

As previously noted, commodity prices are volatile and estimates of reserves are inherently imprecise. Consequently, we expect to continue experiencing these types of changes.

We cannot reasonably predict future commodity prices, although we believe that together, the below analyses provide reasonable information regarding the impact of changes in pricing and trends on total estimated proved reserves. The following table reflects the estimated MMBOE change and percentage change to our total reported estimated proved reserve volumes from the described hypothetical changes:

	For the year ended December 31, 2021				
	MMBOE Change	Percentage Change			
10 percent decrease in SEC pricing ⁽¹⁾	(3.7)	(1)%			
Average NYMEX strip pricing as of fiscal year end ⁽²⁾	(3.6)	(1)%			
10 percent decrease in proved undeveloped reserves ⁽³⁾	(19.2)	(4)%			

- (1) The change solely reflects the impact of a 10 percent decrease in SEC pricing to the total reported estimated proved reserve volumes as of December 31, 2021, and does not include additional impacts to our estimated proved reserves that may result from our internal intent to drill hurdles or changes in future service or equipment costs.
- (2) The change solely reflects the impact of replacing SEC pricing with the five-year average NYMEX strip pricing as of December 31, 2021, and does not include additional impacts to our estimated proved reserves that may result from our internal intent to drill hurdles or changes in future service or equipment costs. As of December 31, 2021, SEC pricing was \$66.56 per Bbl for oil, \$3.60 per MMBtu for gas, and \$36.60 per Bbl for NGLs, and five-year average NYMEX strip pricing was \$64.34 per Bbl for oil, \$3.26 per MMBtu for gas, and \$30.19 per Bbl for NGLs.
- (3) The change solely reflects a 10 percent decrease in proved undeveloped reserves as of December 31, 2021, and does not include any additional impacts to our estimated proved reserves.

Additional reserve information can be found in Reserves in Part I, Items 1 and 2 of this report, and in Supplemental Oil and Gas Information (unaudited) in Part II, Item 8 of this report.

Impairment of Oil and Gas Properties. Proved oil and gas properties are evaluated for impairment on a pool-by-pool basis and reduced to fair value when events or changes in circumstances indicate that their carrying amount may not be recoverable. We estimate the expected future cash flows of our proved oil and gas properties and compare these undiscounted cash flows to the carrying amount to determine if the carrying amount is recoverable. If the carrying amount exceeds the estimated undiscounted future cash flows, we will write down the carrying amount of the proved oil and gas properties to fair value (or discounted future cash flows). Management estimates future cash flows from all proved reserves and risk adjusted probable and possible reserves using various factors, which are subject to our judgment and expertise, and include, but are not limited to, commodity price forecasts, estimated future operating and capital costs, development plans, and discount rates to incorporate the risk and current market conditions associated with realizing the expected cash flows.

Unproved oil and gas properties are evaluated for impairment and reduced to fair value when there is an indication that the carrying costs may not be recoverable. Lease acquisition costs that are not individually significant are aggregated by asset group and the portion of such costs estimated to be nonproductive prior to lease expiration are amortized over the appropriate period. The estimate of what could be nonproductive is based on historical trends or other information, including current drilling plans and our intent to renew leases. We estimate the fair value of unproved properties using a market approach, which takes into account the following significant assumptions: remaining lease terms, future development plans, risk weighted potential resource recovery, estimated reserve values, and estimated acreage value based on price(s) received for similar, recent acreage transactions by us or other market participants.

We cannot predict when or if future impairment charges will be recorded because of the uncertainty in the factors discussed above. Despite any amount of future impairment being difficult to predict, based on our commodity price assumptions as of February 10, 2022, we do not expect any material oil and gas property impairments in the first quarter of 2022 resulting from commodity price impacts.

Please refer to Note 1 – Summary of Significant Accounting Policies and Note 8 – Fair Value Measurements in Part II, Item 8 of this report for discussion of impairments of oil and gas properties recorded for the years ended December 31, 2021, 2020, and 2019.

Revenue Recognition. We predominately derive our revenue from the sale of produced oil, gas, and NGLs. Our revenue recognition policy is a critical accounting policy because revenue is a key component of our results of operations and our forward-looking statements contained in our analysis of liquidity and capital resources. A 10 percent change in our revenue accrual at year-end 2021 would have impacted total operating revenues by approximately \$21.6 million for the year ended December 31, 2021. Please refer to Note 1 – Summary of Significant Accounting Policies Note 2 - Revenue from Contracts with Customersin Part II, Item 8 of this report for additional discussion.

Derivative Financial Instruments. We periodically enter into commodity derivative contracts to mitigate a portion of our exposure to oil, gas, and NGL price volatility and location differentials. We recognize all gains and losses from changes in commodity derivative fair values immediately in earnings rather than deferring any such amounts in accumulated other comprehensive income

(loss). The estimated fair value of our derivative instruments requires substantial judgment. These values are based upon, among other things, option pricing models, futures prices, volatility, time to maturity, and credit risk. The values we report in our consolidated financial statements change as these estimates are revised to reflect actual results, changes in market conditions or other factors, many of which are beyond our control. Please refer to *Note 1 – Summary of Significant Accounting Policies* And Note 10 – Derivative Financial Instruments in Part II, Item 8 of this report for additional discussion.

Income Taxes. We account for deferred income taxes, whereby deferred tax assets and liabilities are recognized based on the tax effects of temporary differences between the carrying amounts on the consolidated financial statements and the tax basis of assets and liabilities, as measured using currently enacted tax rates. These differences will result in taxable income or deductions in future years when the reported amounts of the assets or liabilities are recovered or settled, respectively. Considerable judgment is required in predicting when these events may occur and whether recovery of an asset is more likely than not. We record deferred tax assets and associated valuation allowances, when appropriate, to reflect amounts more likely than not to be realized based upon Company analysis. Additionally, our federal and state income tax returns are generally not filed before the consolidated financial statements are prepared. Therefore, we estimate the tax basis of our assets and liabilities at the end of each period, as well as the effects of tax rate changes, tax credits, and net operating and capital loss carryforwards and carrybacks. Adjustments related to differences between the estimates we use and actual amounts we report are recorded in the periods in which we file our income tax returns. These adjustments and changes in our estimates of asset recovery and liability settlement as well as significant enacted tax rate changes could have an impact on our results of operations. A one percent change in our effective tax rate would have changed our calculated income tax benefit by approximately \$0.5 million for the year ended December 31, 2021. Please refer to Note 1 – Summary of Significant Accounting Policies and Note 4 – Income Taxes in Part II, Item 8 of this report for additional discussion.

Accounting Matters

Please refer to Recently Issued Accounting Standards in Note 1 – Summary of Significant Accounting Policies Part II, Item 8 of this report for information on new authoritative accounting guidance.

Environmental

We believe we are in substantial compliance with environmental laws and regulations and do not currently anticipate that material future expenditures will be required under the existing regulatory framework. However, environmental laws and regulations are subject to frequent changes, and we are unable to predict the impact that compliance with future laws or regulations, such as those currently being considered as discussed below, may have on future capital expenditures, liquidity, and results of operations.

Hydraulic Fracturing. Hydraulic fracturing is an important and common practice that is used to stimulate production of hydrocarbons from tight formations. For additional information about hydraulic fracturing and related environmental matters, please refer to Risk Factors – Risks Related to Oil and Gas Operations and the Industry – Federal and state legislative and regulatory initiatives relating to hydraulic fracturing could result in increased costs and additional operating restrictions or delays.

Climate Change and Air Quality. In June 2013, President Obama announced a Climate Action Plan designed to further reduce GHG emissions and prepare the nation for the physical effects that may occur as a result of climate change. The Climate Action Plan targeted methane reductions from the oil and gas sector as part of a comprehensive interagency methane strategy. As part of the Climate Action Plan, on May 12, 2016, the EPA issued final regulations applicable to new, modified, or reconstructed sources that amended and expanded 2012 regulations for the oil and gas sector by, among other things, setting emission limits for volatile organic compounds ("VOCs" or "VOC") and methane, a GHG, and added requirements for previously unregulated sources. The 2016 NSPS requires reduction of methane and VOCs from certain activities in oil and gas production, processing, transmission and storage and applies to facilities constructed, modified, or reconstructed after September 18, 2015. The regulation requires, among other things, GHG and VOC emission limits for certain equipment, such as centrifugal compressors and reciprocating compressors; semi-annual leak detection and repair for well sites and quarterly for boosting and garnering compressor stations and gas transmission compressor stations; control requirements and emission limits for pneumatic pumps; and additional requirements for control of GHGs and VOCs from well completions. On September 14, and 15, 2020, the EPA finalized amendments to the 2012 and 2016 NSPS that removed transmission and storage infrastructure from the regulation swand also include requirements for states to develop performance standards to control methane emissions from existing sources.

States are also required to comply with the NAAQS. The oil and gas sector is often subjected to additional controls when areas within states are not attaining the ozone NAAQS as the VOCs emitted by the oil and gas sector are a precursor to ozone formation. The ozone NAAQS was set at 70 parts per billion ("ppb") in 2015. The EPA maintained the standard in 2020, but in 2021 the EPA communicated that it is reconsidering the 2020 decision. Oil and gas facilities operating in areas that are determined to be out of compliance with the 70 ppb requirement or a lowered ozone NAAQS may be subject to increased emission controls and associated costs of compliance.

On November 16, 2016, the BLM finalized regulations to address methane emissions from oil and gas operations on federal and tribal lands, as part of President Obama's Climate Action Plan. The regulations were intended to reduce the waste of gas from flaring, venting, and leaks by oil and gas production. The rule included requirements that prohibits venting of gas except in limited circumstances and limits flaring of gas and includes requirements for leak detection and repair. The rule also increased royalty payments for "waste" gas that is released in contravention of the rule requirements. After continuous court challenges, the BLM issued a final rule in September 2018 that rescinded most of the 2016 rule, including most of the methane control requirements. After the 2018 rescission was vacated by the District Court for the Northern District of California, the 2016 rule was vacated by the District Court for the District of Wyoming. Any future regulations requiring similar capture standards may increase our operational costs, or restrict our production, which could materially and adversely affect our financial condition, results of operations, and cash flows.

The United States Congress has from time to time considered adopting legislation to reduce emissions of GHGs and many of the states have already taken legal measures to reduce emissions of GHGs primarily through the planned development of GHG emission inventories and/or regional GHG cap and trade programs. Most of these cap and trade programs work by requiring major sources of emissions, such as electric power plants, or major producers of fuels, such as refineries and gas processing plants, to acquire and surrender emission allowances. The number of allowances available for purchase is reduced each year in an effort to achieve the overall GHG emission reduction goal. In addition, there have been international conventions and efforts to establish standards for the reduction of GHGs globally, including the Paris accords in December 2015. The conditions for entry into force of the Paris accords were met on October 5, 2016 and the Agreement went into force 30 days later on November 4, 2016. At the United Nations Climate Change Conference in Glasgow in 2021, the United States and the European Union announced the Global Methane Pledge that aims to reduce methane emissions by 30 percent compared with 2020 levels.

The adoption of legislation or regulatory programs to reduce emissions of GHGs could require us to incur increased operating costs, such as costs to purchase and operate emissions control systems, to acquire emissions allowances, or comply with new regulatory or reporting requirements. Any such legislation or regulatory programs could also increase the cost of consuming, and thereby reduce demand for, the oil and gas we produce. Consequently, legislation and regulatory programs to reduce emissions of GHGs could have an adverse effect on our business, financial condition, and results of operations. Judicial challenges to new regulatory measures are likely and we cannot predict the outcome of such challenges. New regulatory suspensions, revisions, or rescissions and conflicting state and federal regulatory mandates may inhibit our ability to accurately forecast the costs associated with future regulatory compliance. Finally, scientists have concluded that increasing concentrations of GHGs in the earth's atmosphere produce climate changes that likely have significant physical effects, such as increased frequency and severity of storms, droughts, floods, and other climatic events. Such effects could have an adverse effect on our financial condition and results of operations.

In terms of opportunities, the regulation of GHG emissions and the introduction of alternative incentives, such as enhanced oil recovery, carbon sequestration, and low carbon fuel standards, could benefit us in a variety of ways. For example, although federal regulation and climate change legislation could reduce the overall demand for the oil and gas that we produce, the relative demand for gas may increase because the burning of gas produces lower levels of emissions than other readily available fossil fuels such as oil and coal. In addition, if renewable resources such as wind or solar power become more prevalent, gas-fired electric plants may provide an alternative backup to maintain consistent electricity supply. Also, if states adopt low-carbon fuel standards, gas may become a more attractive transportation fuel. Approximately 35 percent and 37 percent of our production on a BOE basis in 2021 and 2020, respectively, was gas. Market-based incentives for the capture and storage of carbon dioxide in underground reservoirs, particularly in oil and gas reservoirs, could also benefit us through the potential to obtain GHG emission allowances or offsets from or government incentives for the sequestration of carbon dioxide.

Non-GAAP Financial Measures

Adjusted EBITDAX represents net income (loss) before interest expense, interest income, income taxes, depletion, depreciation, amortization and asset retirement obligation liability accretion expense, exploration expense, property abandonment and impairment expense, non-cash stock-based compensation expense, derivative gains and losses net of settlements, gains and losses on divestitures, gains and losses on extinguishment of debt, and certain other items. Adjusted EBITDAX excludes certain items that we believe affect the comparability of operating results and can exclude items that are generally non-recurring in nature or whose timing and/or amount cannot be reasonably estimated. Adjusted EBITDAX is a non-GAAP measure that we believe provides useful additional information to investors and analysts, as a performance measure, for analysis of our ability to internally generate funds for exploration, development, acquisitions, and to service debt. We are also subject to financial covenants under our Credit Agreement based on adjusted EBITDAX ratios as further described in *Note 5 – Long-Term Debt* in Part II, Item 8 of this report. In addition, adjusted EBITDAX is widely used by professional research analysts and others in the valuation, comparison, and investment recommendations of companies in the oil and gas exploration and production industry, and many investors use the published research of industry research analysts in making investment decisions. Adjusted EBITDAX should not be considered in isolation or as a substitute for net income (loss), income (loss) from operations, net cash provided by operating activities, or other profitability or liquidity measures prepared under GAAP. Because adjusted EBITDAX excludes some, but not all items that affect net income (loss) and may vary among companies, the adjusted EBITDAX amounts presented may not be comparable to similar metrics of other companies. Our revolving credit facility provides a material source of liquidity for us. Under the terms of our Credit Agreemen

that default from our lenders, lenders under that facility and under the indentures governing each series of our outstanding Senior Notes, as defined in Note 5 – Long-Term Debt in Part II, Item 8 of this report, would be entitled to exercise all of their remedies for default.

The following table provides reconciliations of our net income (loss) (GAAP) and net cash provided by operating activities (GAAP) to adjusted EBITDAX (non-GAAP) for the periods presented:

For the Veers Ended December 21

	For the Years Ended December 31,							
		2021		2020		2019		
			(in	thousands)				
Net income (loss) (GAAP)	\$	36,229	\$	(764,614)	\$	(187,001)		
Interest expense		160,353		163,892		159,102		
Income tax expense (benefit)		9,938		(192,091)		(44,043)		
Depletion, depreciation, amortization, and asset retirement obligation liability accretion		774,386		784,987		823,798		
Exploration (1)		35,346		37,541		46,995		
Impairment		35,000		1,016,013		33,842		
Stock-based compensation expense		18,819		14,999		24,318		
Net derivative (gain) loss		901,659		(161,576)		97,539		
Derivative settlement gain (loss)		(748,958)		351,261		39,222		
Net (gain) loss on extinguishment of debt		2,139		(280,081)		_		
Other, net		507		5,074		(381)		
Adjusted EBITDAX (non-GAAP)		1,225,418		975,405		993,391		
Interest expense	<u> </u>	(160,353)		(163,892)		(159,102)		
Income tax (expense) benefit		(9,938)		192,091		44,043		
Exploration (1)		(35,346)		(37,541)		(46,995)		
Amortization of debt discount and deferred financing costs		17,275		17,704		15,474		
Deferred income taxes		9,565		(192,540)		(41,835)		
Other, net		(4,260)		(11,874)		1,739		
Net change in working capital		117,411		11,591		16,852		
Net cash provided by operating activities (GAAP)	\$	1,159,772	\$	790,944	\$	823,567		

⁽¹⁾ Stock-based compensation expense is a component of the exploration expense and general and administrative expense line items on the accompanying statements of operations. Therefore, the exploration line items shown in the reconciliation above will vary from the amount shown on the accompanying statements of operations for the component of stock-based compensation expense recorded to exploration expense.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

The information required by this Item is provided under the captions Interest Rate Risk and Commodity Price Risk in Item 7 above, as well as under the section entitled Summary of Oil, Gas, and NGL Derivative Contracts in Placein Note 10 – Derivative Financial Instruments in Part II, Item 8 of this report and is incorporated herein by reference.

ITEM 8. CONSOLIDATED FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

Report of Independent Registered Public Accounting Firm

To the Stockholders and the Board of Directors of SM Energy Company and subsidiaries

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of SM Energy Company and subsidiaries (the Company) as of December 31, 2021 and 2020, the related consolidated statements of operations, comprehensive income (loss), changes in stockholders' equity and cash flows for each of the three years in the period ended December 31, 2021, 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 each of the three years in the period ended December 31, 2021, in conformity with U.S. generally accepted accounting principles.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2021, based on criteria established in Internal Control-Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework), and our report dated February 25, 2022, expressed an unqualified opinion thereon.

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 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. 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. 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.

Critical Audit Matters

The critical audit matters communicated below are matters arising from the current period audit of the financial statements that were communicated or required to be communicated to the audit committee and that: (1) relate to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the consolidated financial statements, taken as a whole, and we are not, by communicating the critical audit matters below, providing separate opinions on the critical audit matters or on the accounts or disclosures to which they relate.

Depletion, depreciation and amortization ("DD&A") of proved oil and gas properties

Description of the Matter At December 31, 2021, the net book value of the Company's proved oil and gas properties was \$3.8 billion, and depletion, depreciation, amortization, and asset retirement obligation liability accretion was \$774.4 million for the year then ended. As described in Note 1 to the consolidated financial statements, under the successful efforts method of accounting, the costs of development wells are capitalized whether those wells are successful or unsuccessful. Capitalized drilling and completion costs, including lease and well equipment, intangible development costs, and operational support facilities in the field are depleted as a group of assets using the units-of-production method based on proved developed oil and gas reserves, as estimated by the Company's engineering technical team. Similarly, proved leasehold costs are depleted on the same group asset basis; however, the units-of-production method is based on total proved oil and gas reserves, as estimated by the Company's engineering technical team. Significant judgment is required by the Company's engineering technical team in evaluating geoscience and engineering data when estimating proved oil and gas reserves. Estimating reserves also requires the use of inputs, including oil and gas prices and operating and capital costs assumptions, among others. Because of the complexity involved in estimating oil and gas reserves, management used an independent petroleum engineering consulting firm to audit the estimates prepared by the Company's engineering technical team for at least 80% of the Company's total calculated proved reserve PV-10 as of December 31, 2021.

> Auditing the Company's DD&A calculation is especially complex and judgmental because of our use of the work of the Company's engineering technical team and independent petroleum engineering consulting firm and the evaluation of management's determination of the inputs described above used by the engineering technical team and independent petroleum engineering consulting firm in estimating proved oil and gas reserves.

How We Addressed the Matter in Our Audit

We obtained an understanding, evaluated the design and tested the operating effectiveness of controls over the Company's process to calculate DD&A, including management's controls over the completeness and accuracy of the financial data provided to the Company's engineering technical team and independent petroleum engineering consulting firm for use in estimating the proved oil and gas reserves.

Our audit procedures included, among others, evaluating the professional qualifications and objectivity of the engineering technical team primarily responsible for overseeing the preparation of the reserve estimates and the independent petroleum engineering consulting firm used to audit the estimates. In addition, in assessing whether we can use the work of the Company's engineering technical team and independent petroleum engineering consulting firm we evaluated the completeness and accuracy of the financial data and inputs described above used by the engineering technical team and independent petroleum engineering consulting firm in estimating proved oil and gas reserves by agreeing them to source documentation and we identified and evaluated corroborative and contrary evidence. We also tested the mathematical accuracy of the DD&A calculations, including comparing the proved oil and gas reserve amounts used to the Company's reserve report.

/s/ Ernst & Young LLP

We have served as the Company's auditor since 2012. Denver, Colorado February 25, 2022

SM ENERGY COMPANY AND SUBSIDIARIES CONSOLIDATED BALANCE SHEETS (in thousands, except share data)

	December 31			J ,	
		2021		2020	
ASSETS					
Current assets:					
Cash and cash equivalents	\$	332,716	\$	10	
Accounts receivable		247,201		162,455	
Derivative assets		24,095		31,203	
Prepaid expenses and other		9,175		10,001	
Total current assets		613,187		203,669	
Property and equipment (successful efforts method):					
Proved oil and gas properties		9,397,407		8,608,522	
Accumulated depletion, depreciation, and amortization		(5,634,961)		(4,886,973)	
Unproved oil and gas properties		629,098		714,602	
Wells in progress		148,394		233,498	
Other property and equipment, net of accumulated depreciation of \$62,359 and \$63,662, respectively		36,060		32,217	
Total property and equipment, net		4,575,998		4,701,866	
Noncurrent assets:					
Derivative assets		239		23,150	
Other noncurrent assets		44,553		47,746	
Total noncurrent assets		44,792		70,896	
Total assets	\$	5,233,977	\$	4,976,431	
LIABILITIES AND STOCKHOLDERS' EQUITY		, ,	-	<u> </u>	
Current liabilities:					
Accounts payable and accrued expenses	\$	563,306	\$	371,670	
Derivative liabilities		319,506		200,189	
Other current liabilities		6,515		11,880	
Total current liabilities		889,327		583,739	
Noncurrent liabilities:		, .		,	
Revolving credit facility		_		93.000	
Senior Notes, net		2,081,164		2,121,319	
Asset retirement obligations		97,324		83.325	
Deferred income taxes		9,769		_	
Derivative liabilities		25,696		22.331	
Other noncurrent liabilities		67,566		56,557	
Total noncurrent liabilities		2,281,519		2,376,532	
Commitments and contingencies (note 6)		<u> </u>			
Stockholders' equity:					
Common stock, \$0.01 par value - authorized: 200,000,000 shares; issued and outstanding: 121,862,248 and 114,742,304 shares, respectively		1,219		1,147	
Additional paid-in capital		1,840,228		1,827,914	
Retained earnings		234,533		200,697	
Accumulated other comprehensive loss		(12,849)		(13,598)	
Total stockholders' equity		2,063,131		2,016,160	
Total liabilities and stockholders' equity	\$	5,233,977	\$	4,976,431	

SM ENERGY COMPANY AND SUBSIDIARIES CONSOLIDATED STATEMENTS OF OPERATIONS (in thousands, except per share data)

For the Years Ended December 31,

	December 31,					
		2021		2020		2019
Operating revenues and other income:						
Oil, gas, and NGL production revenue	\$	2,597,915	\$	1,126,188	\$	1,585,750
Other operating income		24,979		485		4,355
Total operating revenues and other income	<u> </u>	2,622,894		1,126,673		1,590,105
Operating expenses:						
Oil, gas, and NGL production expense		505,416		391,217		500,709
Depletion, depreciation, amortization, and asset retirement obligation liability accretion		774,386		784,987		823,798
Exploration		39,296		40,997		51,500
Impairment		35,000		1,016,013		33,842
General and administrative		111,945		99,160		132,797
Net derivative (gain) loss		901,659		(161,576)		97,539
Other operating expense, net		46,069		24,825		19,888
Total operating expenses		2,413,771		2,195,623		1,660,073
Income (loss) from operations		209,123		(1,068,950)		(69,968)
Interest expense		(160,353)		(163,892)		(159,102)
Net gain (loss) on extinguishment of debt		(2,139)		280,081		_
Other non-operating expense, net		(464)		(3,944)		(1,974)
Income (loss) before income taxes	<u> </u>	46,167		(956,705)		(231,044)
Income tax (expense) benefit		(9,938)		192,091		44,043
Net income (loss)	\$	36,229	\$	(764,614)	\$	(187,001)
	-					
Basic weighted-average common shares outstanding		119,043		113,730		112,544
Diluted weighted-average common shares outstanding		123,690		113,730		112,544
Basic net income (loss) per common share	\$	0.30	\$	(6.72)		(1.66)
Diluted net income (loss) per common share	\$	0.29	\$	(6.72)	\$	(1.66)

SM ENERGY COMPANY AND SUBSIDIARIES CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (LOSS) (in thousands)

For the Years Ended December 31

	December 31,					
		2021		2020		2019
Net income (loss)	\$	36,229	\$	(764,614)	\$	(187,001)
Other comprehensive income (loss), net of tax:						
Pension liability adjustment (1)		749		(2,279)		1,061
Total other comprehensive income (loss), net of tax		749		(2,279)		1,061
Total comprehensive income (loss)	\$	36,978	\$	(766,893)	\$	(185,940)

⁽¹⁾ Please refer to Note 11 – Pension Benefitsfor additional discussion of the pension liability adjustment.

SM ENERGY COMPANY AND SUBSIDIARIES CONSOLIDATED STATEMENTS OF STOCKHOLDERS' EQUITY (in thousands, except share data and dividends per share)

Total Common Stock Accumulated Other Comprehensive Loss Stockholders' Equity Additional Paid-Retained Amount Shares in Capital Earnings Balances, January 1, 2019 112,241,966 1,122 1,765,738 \$ 1,165,842 (12,380) 2,920,322 (187,001) Net loss (187,001)Other comprehensive income 1,061 1,061 Cash dividends, \$0.10 per share (11,254)(11,254) Issuance of common stock under Employee Stock 314,868 3 3,206 3,209 Purchase Plan Issuance of common stock upon vesting of RSUs, net of shares used for tax withholdings 334,399 4 (1,665)(1,661)Stock-based compensation expense 96,719 24,317 24,318 112,987,952 \$ 1,130 \$ 1,791,596 \$ 967,587 \$ (11,319) 2,748,994 Balances, December 31, 2019 Net loss (764,614) (764,614) Other comprehensive loss (2,279)(2,279)(2,276)Cash dividends, \$0.02 per share (2,276)Issuance of common stock under Employee Stock Purchase Plan 464,757 4 1,460 1,464 Issuance of common stock upon vesting of RSUs and settlement of PSUs, net of shares used for tax withholdings 1,022,019 10 (1,570)(1,560) Stock-based compensation expense 267,576 3 14,996 14,999 Issuance of Warrants 21,520 21,520 Other (88) (88) Balances, December 31, 2020 114,742,304 200,697 (13,598) 2,016,160 \$ 1,147 1,827,914 Net income 36,229 36,229 Other comprehensive income 749 749 Cash dividends, \$0.02 per share (2,393)(2,393)Issuance of common stock under Employee Stock 2,636 2,639 Purchase Plan 313,773 3 Issuance of common stock upon vesting of RSUs and settlement of PSUs, net of shares used for tax withholdings 827,572 9 (9,081)(9,072) 18,818 Stock-based compensation expense 60,510 18,819 1 Issuance of common stock through cashless exercise of 5,918,089 59 (59) Warrants 121,862,248 1,219 1,840,228 234,533 (12,849) 2,063,131 Balances, December 31, 2021

SM ENERGY COMPANY AND SUBSIDIARIES CONSOLIDATED STATEMENTS OF CASH FLOWS (in thousands)

For the Years Ended December 31. 2021 2020 2019 Cash flows from operating activities: Net income (loss) \$ 36,229 \$ (764,614) \$ (187,001)Adjustments to reconcile net income (loss) to net cash provided by operating activities: Depletion, depreciation, amortization, and asset retirement obligation liability accretion 774.386 784.987 823,798 Impairment 35,000 1,016,013 33,842 18.819 14,999 Stock-based compensation expense 24.318 Net derivative (gain) loss 901,659 (161,576) 97,539 Derivative settlement gain (loss) (748.958)351,261 39.222 Amortization of debt discount and deferred financing costs 17,275 17,704 15,474 Net (gain) loss on extinguishment of debt 2,139 (280,081)(41,835)9.565 Deferred income taxes (192,540)Other, net (3,753)(6,800)1,358 Changes in working capital: Accounts receivable (101,047)29,100 (39,556)Prepaid expenses and other 220 5,873 6,130 Accounts payable and accrued expenses 218,238 (23,382)50,278 Net cash provided by operating activities 1,159,772 790,944 823,567 Cash flows from investing activities: Net proceeds from the sale of oil and gas properties 10,927 13,059 Capital expenditures (547,785)(674,841)(1,023,769)Acquisition of proved and unproved oil and gas properties (3,321)(7,873)(2,581)(667,235) (555,566) (1,013,291) Net cash used in investing activities Cash flows from financing activities: Proceeds from revolving credit facility 1,832,500 1,447,000 1,589,000 (1,925,500)(1,476,500)(1,466,500)Repayment of revolving credit facility Net proceeds from Senior Notes 392,771 Cash paid to repurchase Senior Notes (189.998) (450,776)Debt issuance costs related to 10.0% Senior Secured Notes due 2025 (13,069)Net proceeds from sale of common stock 2,639 1,464 3,209 Dividends paid (2,393)(2,276)(11,254)Other, net (9,072)(1,999)(2,686)Net cash used in financing activities (159,831)(235,378) 111,769 Net change in cash, cash equivalents, and restricted cash 332 706 (77.955)Cash, cash equivalents, and restricted cash at beginning of period 10 10 77,965 332,716 10 10 Cash, cash equivalents, and restricted cash at end of period Supplemental schedule of additional cash flow information and non-cash activities: Operating activities: (136,606) \$ (141,902) Cash paid for interest, net of capitalized interest (140,493) \$ \$ Net cash (paid) refunded for income taxes \$ (864) 6,664 6,109 Investing activities: Decrease in capital expenditure accruals and other \$ (10,826) \$ (7,965) \$ (24,289)

Non-cash investing and financing activities (1)(2)

Please refer to Note 16 – Acquisitions, Divestitures, and Assets Held for Sale for discussion of the carrying value of properties exchanged during the years ended December 31, 2021, 2020, and 2019.

⁽²⁾ Please refer to *Note 5 – Long-Term Debt* for discussion of the debt transactions completed during the years ended December 31, 2021, and 2020.

SM ENERGY COMPANY AND SUBSIDIARIES NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Note 1 - Summary of Significant Accounting Policies

Description of Operations

SM Energy Company, together with its consolidated subsidiaries, is an independent energy company engaged in the acquisition, exploration, development, and production of oil, gas, and NGLs in the state of Texas.

Basis of Presentation

The accompanying consolidated financial statements include the accounts of the Company and have been prepared in accordance with GAAP and the instructions to Form 10-K and Regulation S-X. Intercompany accounts and transactions have been eliminated. In connection with the preparation of the accompanying consolidated financial statements, the Company evaluated events subsequent to the balance sheet date of December 31, 2021, through the filing of this report. Additionally, certain prior period amounts have been reclassified to conform to current period presentation in the accompanying consolidated financial statements.

Use of Estimates in the Preparation of Financial Statements

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of proved oil and gas reserves, assets and liabilities, disclosure of contingent assets and liabilities at the date of the financial statements, and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates. Estimates of proved oil and gas reserve quantities provide the basis for the calculation of DD&A expense, impairment of proved and unproved oil and gas properties, and asset retirement obligations, each of which represents a significant component of the accompanying consolidated financial statements.

Cash and Cash Equivalents

The Company considers all liquid investments purchased with an initial maturity of three months or less to be cash equivalents. The carrying value of cash and cash equivalents approximates fair value due to the short-term nature of these instruments.

Accounts Receivable

The Company's accounts receivable primarily consist of receivables due from oil, gas, and NGL purchasers and from joint interest owners on properties the Company operates. For receivables due from joint interest owners, the Company generally has the ability to withhold future revenue disbursements to recover non-payment of joint interest billings. Generally, the Company's oil, gas, and NGL receivables are collected within 30 to 90 days and the Company has had minimal bad debts. Although diversified among many companies, collectability is dependent upon the financial wherewithal of each individual company and is influenced by the general economic conditions of the industry. Receivables are not collateralized. Please refer to Note 13 – Accounts Receivable and Accounts Payable and Accrued Expenses or additional disclosure

Concentration of Credit Risk and Major Customers

The Company is exposed to credit risk in the event of nonpayment by counterparties, a significant portion of which are concentrated in energy related industries. The creditworthiness of customers and other counterparties is subject to regular review.

The Company does not believe the loss of any single purchaser of its production would materially impact its operating results, as oil, gas, and NGLs are products with well-established markets and numerous purchasers in the Company's operating areas. The following major customers and entities under common control accounted for 10 percent or more of the Company's total oil, gas, and NGL production revenue for at least one of the periods presented:

	For the Years Ended December 31,					
	2021	2020	2019			
Major customer #1	27 %	15 %	4 %			
Major customer #2	18 %	6 %	9 %			
Major customer #3	15 %	24 %	13 %			
Major customer #4	9 %	20 %	14 %			
Major customer #5	1 %	— %	18 %			
Group #1 of entities under common control ⁽¹⁾	7 %	5 %	13 %			
Group #2 of entities under common control ⁽¹⁾	6 %	7 %	11 %			

⁽¹⁾ In the aggregate, these groups of entities under common control represented purchasers of more than 10 percent of total oil, gas, and NGL production revenue for at least one of the periods presented; however, no individual entity comprising either group was a purchaser of more than 10 percent of the Company's total oil, gas, and NGL production revenue.

The Company generally contracts with the affiliates of the lenders under its Credit Agreement as its derivative counterparties, and the Company's policy is that each counterparty must have certain minimum investment grade senior unsecured debt ratings.

The Company maintains its primary bank accounts with a large, multinational bank that has branch locations in the Company's areas of operations. The Company's policy is to diversify its concentration of cash and cash equivalent investments among multiple institutions and investment products to limit the amount of credit exposure to any single institution or investment.

Oil and Gas Producing Activities

Proved properties. The Company follows the successful efforts method of accounting for its oil and gas properties. Under this method, property acquisition costs and development costs are capitalized when incurred. Capitalized drilling and completion costs, including lease and well equipment, intangible development costs, and operational support facilities in the field, are depleted on an asset group basis (properties aggregated based on geographical and geological characteristics) using the units-of-production method based on estimated proved developed oil and gas reserves. Similarly, proved leasehold costs are depleted on the same asset group basis; however, the units-of-production method is based on estimated total proved oil and gas reserves. The computation of DD&A expense takes into consideration restoration, dismantlement, and abandonment costs as well as the anticipated proceeds from salvaging equipment.

Proved oil and gas property costs are evaluated for impairment on a pool-by-pool basis and reduced to fair value when there is an indication that associated carrying costs may not be recoverable. The Company uses Level 3 inputs and the income valuation technique, which converts future cash flows to a single present value amount, to measure the fair value of proved properties using a discount rate, price and cost forecasts, and certain reserve risk-adjustment factors, as selected by the Company's management. The Company uses a discount rate that represents a current market-based weighted average cost of capital. The discount rate typically ranges from 10 percent to 15 percent. The prices for oil and gas are forecasted based on NYMEX strip pricing, adjusted for basis differentials, for the first five years, after which a flat terminal price is used for each commodity stream. The prices for NGLs are forecasted using OPIS Mont Belvieu pricing, for as long as the market is actively trading, after which a flat terminal price is used. Future operating costs are also adjusted as deemed appropriate for these estimates. Certain undeveloped reserve estimates are also risk-adjusted given the risk to related projected cash flows due to performance and exploitation uncertainties.

The partial sale of a proved property within an existing field is accounted for as a normal retirement and no net gain or loss on divestiture activity is recognized as long as the treatment does not significantly affect the units-of-production depletion rate. The sale of a partial interest in an individual proved property is accounted for as a recovery of cost. A net gain or loss on divestiture activity is recognized in the accompanying statements of operations for all other sales of proved properties.

Unproved properties. The unproved oil and gas properties line item on the accompanying consolidated balance sheets ("accompanying balance sheets") consists of the costs incurred to acquire unproved leases. Leasehold costs allocated to those leases, or partial leases that have associated proved reserves recorded, are reclassified to proved properties and depleted on an asset group basis using the units-of-production method based on estimated total proved oil and gas reserves. Unproved oil and gas property costs are evaluated for impairment and reduced to fair value when there is an indication that the carrying costs may not be recoverable. Lease acquisition costs that are not individually significant are aggregated by asset group and the portion of such costs estimated to be nonproductive prior to lease expiration are recognized as a valuation allowance and amortized over the appropriate period. The estimate of what could be nonproductive is based on historical trends or other information, including current drilling plans and the

Company's intent to renew leases. To measure the fair value of unproved properties, the Company uses a market approach, which takes into account the following significant assumptions: remaining lease terms, future development plans, risk-weighted potential resource recovery, estimated reserve values, and estimated acreage value based on price(s) received for similar, recent acreage transactions by the Company or other market participants.

For the sale of unproved properties where the original cost has been partially or fully amortized by providing a valuation allowance on an asset group basis, neither a gain nor loss is recognized unless the sales price exceeds the original cost of the property, in which case a gain shall be recognized in the accompanying statements of operations in the amount of such excess.

Exploratory. Exploratory geological and geophysical, including exploratory seismic studies, and the costs of carrying and retaining unproved acreage are expensed as incurred. Under the successful efforts method of accounting for oil and gas properties, exploratory well costs are initially capitalized pending the determination of whether proved reserves have been discovered. If proved reserves are discovered, exploratory well costs will be capitalized as proved properties and will be accounted for following the successful efforts method of accounting described above. If proved reserves are not found, exploratory well costs are expensed as dry holes. The application of the successful efforts method of accounting requires management's judgment to determine the proper designation of wells as either development or exploratory, which will ultimately determine the proper accounting treatment of costs of dry holes. Once a well is drilled, the determination that proved reserves have been discovered may take considerable time and judgment. Exploratory dry hole costs are included in the cash flows from investing activities section as part of capital expenditures within the accompanying statements of cash flows.

Please refer to Note 8 – Fair Value Measurements for additional information.

Other Property and Equipment

Other property and equipment such as facilities, office furniture and equipment, buildings, and computer hardware and software are recorded at cost. The Company capitalizes certain software costs incurred during the application development stage. The application development stage generally includes software design, configuration, testing, and installation activities. Costs of renewals and improvements that substantially extend the useful lives of the assets are capitalized. Maintenance and repair costs are expensed when incurred. Depreciation is calculated using either the straight-line method over the estimated useful lives of the assets, which range from three to 30 years, or the unit of output method when appropriate. When other property and equipment is sold or retired, the capitalized costs and related accumulated depreciation are removed from the Company's accounts.

Other property and equipment costs are evaluated for impairment and reduced to fair value when there is an indication the carrying costs may not be recoverable. To measure the fair value of other property and equipment, the Company uses an income valuation technique or market approach depending on the quality of information available to support management's assumptions and the circumstances. The valuation includes consideration of the proved and unproved assets supported by the property and equipment, future cash flows associated with the assets, and fixed costs necessary to operate and maintain the assets.

Asset Retirement Obligations

The Company recognizes an estimated liability for future costs associated with the abandonment of its oil and gas properties, including facilities requiring decommissioning. A liability for the fair value of an asset retirement obligation and corresponding increase to the carrying value of the related long-lived asset are recorded at the time a well is drilled or acquired, or a facility is constructed. The increase in carrying value is included in the proved oil and gas properties line item in the accompanying balance sheets. The Company depletes the amount added to proved oil and gas property costs and recognizes expense in connection with the accretion of the discounted liability over the remaining estimated economic lives of the respective long-lived assets. Cash paid to settle asset retirement obligations is included in the cash flows from operating activities section of the accompanying statements of cash flows.

The Company's estimated asset retirement obligation liability is based on historical experience in plugging and abandoning wells, estimated economic lives, estimated plugging and abandonment cost, and federal and state regulatory requirements. The liability is discounted using the credit-adjusted risk-free rate estimated at the time the liability is incurred or revised. The credit-adjusted risk-free rates used to discount the Company's plugging and abandonment liabilities range from 5.5 percent to 12 percent. In periods subsequent to initial measurement of the liability, the Company must recognize period-to-period changes in the liability resulting from the passage of time, revisions to either the amount of the original estimate of undiscounted cash flows or economic life, or changes in inflation factors or the Company's credit-adjusted risk-free rate as market conditions warrant. Please refer to *Note 14 – Asset Retirement Obligations* for a reconciliation of the Company's total asset retirement obligation liability as of December 31, 2021, and 2020.

Derivative Financial Instruments

The Company periodically enters into commodity derivative instruments to mitigate a portion of its exposure to oil, gas, and NGL price volatility and location differentials for its expected future oil, natural gas, and NGL production, and the associated impact on cash flows. These instruments typically include commodity price swaps and costless collars, as well as, basis differential and roll

differential swaps. Commodity derivative instruments are measured at fair value and are included in the accompanying balance sheets as derivative assets and liabilities, with the exception of derivative instruments that meet the "normal purchase normal sale" exclusion. The Company does not designate its commodity derivative contracts as hedging instruments. Accordingly, the Company reflects changes in the fair value of its derivative instruments in its accompanying statements of operations as they occur. Gains and losses on derivatives are included within the cash flows from operating activities section of the accompanying statements of cash flows. Please refer to Note 10 – Derivative Financial Instruments for additional discussion.

Revenue Recognition

The Company derives revenue predominately from the sale of produced oil, gas, and NGLs. Revenue is recognized at the point in time when custody and title ("control") of the product transfers to the purchaser, which may differ depending on the applicable contractual terms. Revenue accruals are recorded monthly and are based on estimated production delivered to a purchaser and the expected price to be received. We use our knowledge of our properties, contractual arrangements, historical performance, NYMEX, local spot market, and OPIS prices, and other factors as the basis of these estimates. Variances between estimates and the actual amounts received are recorded in the month payment is received. Please refer to Note 2 - Revenue from Contracts with Customers for additional discussion.

Stock-Based Compensation

At December 31, 2021, the Company had stock-based employee compensation plans that included RSUs and PSUs issued to employees, RSUs and restricted stock issued to non-employee directors, and an employee stock purchase plan available to eligible employees. The Company records expense associated with the fair value of stock-based compensation in accordance with authoritative accounting guidance, which is based on the estimated fair value of these awards determined at the time of grant, and is included within the general and administrative and exploration expense line items in the accompanying statements of operations. For stock-based compensation awards containing non-market based performance conditions, the Company evaluates the probability of the number of shares that are expected to vest, and then adjusts the expense to reflect the number of shares expected to vest and the cumulative vesting period met to date. Further, the Company accounts for forfeitures of stock-based compensation awards as they occur. Please refer to *Note 7 – Compensation Plans* for additional discussion.

Income Taxes

The Company accounts for deferred income taxes whereby deferred tax assets and liabilities are recognized based on the tax effects of temporary differences between the carrying amounts on the accompanying consolidated financial statements and the tax basis of assets and liabilities, as measured using current enacted tax rates. These differences will result in taxable income or deductions in future years when the reported amounts of the assets or liabilities are recorded or settled, respectively. The Company records deferred tax assets and associated valuation allowances, when appropriate, to reflect amounts more likely than not to be realized based upon Company analysis. The cumulative effect of enacted tax rate changes on the net balance of reported amounts of assets and liabilities is recognized in the period of enactment. Please refer to Note 4 – Income Taxes for additional discussion.

Earnings per Share

The Company uses the treasury stock method to determine the effect of potentially dilutive instruments. Please refer to Note 9 - Earnings Per Share for additional discussion.

Comprehensive Income (Loss)

Comprehensive income (loss) is used to refer to net income (loss) plus other comprehensive income (loss). Other comprehensive income (loss) is comprised of revenues, expenses, gains, and losses that under GAAP are reported as separate components of stockholders' equity instead of net income (loss). Comprehensive income (loss) is presented net of income taxes in the accompanying consolidated statements of comprehensive income (loss) ("accompanying statements of comprehensive income (loss)"). The Company's policy for releasing income tax effects within accumulated other comprehensive loss is an incremental, unit-of-account approach. Please refer to Note 11 – Pension Benefitsfor detail on the changes in the balances of components comprising other comprehensive income (loss).

Fair Value of Financial Instruments

The Company's financial instruments including cash and cash equivalents, accounts receivable, and accounts payable are carried at cost, which approximates fair value due to the short-term maturity of these instruments. The recorded value of the Company's revolving credit facility approximates its fair value as it bears interest at a floating rate that approximates a current market rate. The Company had no outstanding balance under its revolving credit facility as of December 31, 2021, and had a \$93.0 million balance as of December 31, 2020. The Company's Senior Notes, as defined in *Note 5 – Long-Term Debt*, are recorded at cost, net of any unamortized discount and deferred financing costs, and their respective fair values are disclosed in *Note 8 – Fair Value Measurements*. The Company's Warrants, as defined in *Note 3 - Equity*, were recorded at fair value upon issuance, with no recurring

fair value measurement required. Additionally, the Company has derivative financial instruments that are recorded at fair value. Considerable judgment is required to develop estimates of fair value. The estimates provided are not necessarily indicative of the amounts the Company would realize upon the sale or refinancing of such instruments.

Leases

The Company accounts for leases in accordance with ASC Topic 842, Leases, ("Topic 842"), which requires lessees to recognize operating and finance leases with terms greater than 12 months on the balance sheet. The Company evaluates a contractual arrangement at its inception to determine if it is a lease or contains an identifiable lease component. Certain leases may contain both lease and non-lease components. The Company's policy for all asset classes is to combine lease and non-lease components together and account for the arrangement as a single lease.

Certain assumptions and judgments made by the Company when evaluating a contract that meets the definition of a lease under Topic 842 include those to determine the discount rate and lease term. Unless implicitly defined, the Company determines the present value of future lease payments using an estimated incremental borrowing rate based on a yield curve analysis that factors in certain assumptions, including the term of the lease and credit rating of the Company at lease inception. The Company evaluates each contract containing a lease arrangement at inception to determine the length of the lease term when recognizing a right-of-use ("ROU") asset and corresponding lease liability. When determining the lease term, options available to extend or early terminate the arrangement are evaluated and included when it is reasonably certain an option will be exercised. Exercising an early termination option may result in an early termination penalty depending on the terms of the underlying agreement. The Company excludes from the balance sheet leases with terms that are less than one year.

A ROU asset represents a lessee's right to use an underlying asset for the lease term, while the associated lease liability represents the lessee's obligations to make lease payments. At the commencement date, which is the date on which a lessor makes an underlying asset available for use by a lessee, a lease ROU asset and corresponding lease liability is recognized based on the present value of the future lease payments. The initial measurement of lease payments may also be adjusted for certain items, including options that are reasonably certain to be exercised, such as options to purchase the asset at the end of the lease term, or options to extend or early terminate the lease. Excluded from the initial measurement of a ROU asset and corresponding lease liability are certain variable lease payments, such as payments made that vary depending on actual usage or performance.

Subsequent to initial measurement, costs associated with the Company's operating leases are either expensed or capitalized depending on how the underlying ROU asset is utilized and in accordance with GAAP requirements. When calculating the Company's ROU asset and liability for a contractual arrangement that qualifies as an operating lease, the Company considers all of the necessary payments made or that are expected to be made upon commencement of the lease. As discussed above, excluded from the initial measurement are certain variable lease payments, which for the Company's drilling rigs, completion crews, and midstream agreements, may be a significant component of the total lease costs. Please refer to *Note 12 - Leases* for additional discussion.

Industry Segment and Geographic Information

The Company operates in the exploration and production segment of the oil and gas industry, onshore in the United States. The Company reports as a single industry segment.

Off-Balance Sheet Arrangements

The Company has not participated in transactions that generate relationships with unconsolidated entities or financial partnerships, such as entities often referred to as structured finance or SPEs, which would have been established for the purpose of facilitating off-balance sheet arrangements or other contractually narrow or limited purposes.

The Company evaluates its transactions to determine if any variable interest entities exist. If it is determined that the Company is the primary beneficiary of a variable interest entity, that entity is consolidated into the Company's consolidated financial statements. The Company has not been involved in any unconsolidated SPE transactions during 2021 or 2020, or through the filing of this report.

Recently Issued Accounting Standards

In March 2020, the FASB issued ASU No. 2020-04, Reference Rate Reform (Topic 848): Facilitation of the Effects of Reference Rate Reform on Financial Reporting ("ASU 2020-04"), and in January 2021, issued ASU No. 2021-01, Reference Rate Reform (Topic 848): Scope("ASU 2021-01"), to provide clarifying guidance regarding the scope of Topic 848. ASU 2020-04 was issued to provide optional guidance for a limited period of time to ease the potential burden in accounting for (or recognizing the effects of) reference rate reform on financial reporting. Generally, the guidance is to be applied as of any date from the beginning of an interim period that includes or is subsequent to March 12, 2020, or prospectively from a date within an interim period that includes or is subsequent to March 12, 2020, up to the date that the financial statements are available to be issued. ASU 2020-04 and ASU 2021-01 are effective for all entities through December 31, 2022. The Company has elected not to use the optional guidance provided by these

ASUs. Please refer to Note 5 - Long-Term Debt for discussion of the use of the LIBOR in connection with borrowings under the Credit Agreement.

In August 2020, the FASB issued ASU No. 2020-06, *Debt - Debt with Conversion and Other Options (Subtopic 470-20) and Derivatives and Hedging - Contracts in Entity's Own Equity (Subtopic 815-40)* ("ASU 2020-06"). ASU 2020-06 was issued to reduce the complexity associated with accounting for certain financial instruments with characteristics of liabilities and equity. The guidance is to be applied using either a modified retrospective or a fully retrospective method. ASU 2020-06 is effective for fiscal years beginning after December 15, 2021, with early adoption permitted. The Company adopted ASU 2020-06 on January 1, 2022, and there was no material impact on the Company's accompanying consolidated financial statements or related disclosures.

As of December 31, 2021, and through the filing of this report, no other ASUs have been issued that are applicable to the Company and that would have a material effect on the Company's consolidated financial statements and related disclosures.

Note 2 - Revenue from Contracts with Customers

The Company recognizes its share of revenue from the sale of produced oil, gas, and NGLs from its Midland Basin and South Texas assets. Oil, gas, and NGL production revenue presented within the accompanying statements of operations is reflective of the revenue generated from contracts with customers.

The tables below present oil, gas, and NGL production revenue by product type for each of the Company's operating areas for the years ended December 31, 2021, 2020, and 2019:

For the year ended December 31, 202	For the	vear	ended	December	31.	202
-------------------------------------	---------	------	-------	----------	-----	-----

	M	Midland Basin		South Texas	Total		
				(in thousands)			
Oil production revenue	\$	1,701,915	\$	189,911	\$	1,891,826	
Gas production revenue		326,115		199,364		525,479	
NGL production revenue		381		180,229		180,610	
Total	\$	2,028,411	\$	569,504	\$	2,597,915	
Relative percentage		78 %		22 %		100 %	

For the year ended December 31, 2020

	Mic	Midland Basin		South Texas	Total		
	<u> </u>	(in thousands					
Oil production revenue	\$	802,494	\$	51,074	\$	853,568	
Gas production revenue		76,759		110,700		187,459	
NGL production revenue		324		84,837		85,161	
Total	\$	879,577	\$	246,611	\$	1,126,188	
Relative percentage	_	78 %	_	22 %	_	100 %	

For the year ended December 31, 2019

	M	Midland Basin		South Texas	Total		
				(in thousands)			
Oil production revenue	\$	1,119,786	\$	63,426	\$	1,183,212	
Gas production revenue		75,827		186,702		262,529	
NGL production revenue		123		139,886		140,009	
Total	\$	1,195,736	\$	390,014	\$	1,585,750	
Relative percentage		75 %		25 %		100 %	

The Company recognizes oil, gas, and NGL production revenue at the point in time when control of the product transfers to the purchaser, which differs depending on the applicable contractual terms. Transfer of control drives the presentation of transportation, gathering, processing, and other post-production expenses ("fees and other deductions") within the accompanying statements of operations. Fees and other deductions incurred by the Company prior to control transfer are recorded within the oil, gas, and NGL production expense line item on the accompanying statements of operations. When control is transferred at or near the wellhead, sales

are based on a wellhead market price that is impacted by fees and other deductions incurred by the purchaser subsequent to the transfer of control. In general, the Company generates production revenue from a combination of the following types of contracts:

- The Company sells oil and gas production at or near the wellhead and receives an agreed-upon market price from the purchaser. Under this type of arrangement, control transfers at or near the wellhead.
- The Company has certain processing arrangements that include the delivery of unprocessed gas to a midstream processor's facility for processing. Upon completion of processing, the midstream processor purchases the NGLs and redelivers residue gas back to the Company in-kind. For the NGLs extracted during processing, the midstream processor remits payment to the Company. For the residue gas taken in-kind, the Company has separate sales contracts where control transfers at points downstream of the processing facility. The Company also has certain oil sales that occur at market locations downstream of the production area. Given the structure of these arrangements and where control transfers, the Company separately recognizes fees and other deductions incurred prior to control transfer. These fees are recorded within the oil, gas, and NGL production expense line item on the accompanying statements of operations.

Significant judgments made in applying the guidance in ASC Topic 606, Revenue from Contracts with Customers, relate to the point in time when control transfers to purchasers in gas processing arrangements with midstream processors. The Company does not believe that significant judgments are required with respect to the determination of the transaction price, including amounts that represent variable consideration, as volume and price carry a low level of estimation uncertainty given the precision of volumetric measurements and the use of index pricing with generally predictable differentials. Accordingly, the Company does not consider estimates of variable consideration to be constrained

The Company's performance obligations arise upon the production of hydrocarbons from wells in which the Company has an ownership interest. The performance obligations are considered satisfied upon control transferring to a purchaser at the wellhead, inlet, or tailgate of the midstream processor's processing facility, or other contractually specified delivery point. The time period between production and satisfaction of performance obligations is generally less than one day; thus, there are no material unsatisfied or partially unsatisfied performance obligations at the end of the reporting period.

Revenue is recorded in the month when performance obligations are satisfied. However, settlement statements from the purchasers of hydrocarbons and the related cash consideration are received 30 to 90 days after production has occurred. As a result, the Company must estimate the amount of production delivered to its customers and the consideration that will ultimately be received for sale of the product. Estimated revenue due to the Company is recorded within the accounts receivable line item on the accompanying balance sheets until payment is received. The accounts receivable balances from contracts with customers within the accompanying balance sheets as of December 31, 2021, and 2020, were \$215.6 million and \$108.9 million, respectively. To estimate accounts receivable from contracts with customers, the Company uses knowledge of its properties, historical performance, contractual arrangements, index pricing, quality and transportation differentials, and other factors as the basis for these estimates. Differences between estimates and actual amounts received for product sales are recorded in the month that payment is received from the purchaser.

Note 3 - Equity

On June 17, 2020, in connection with the Exchange Offers described below in Note 5 – Long-Term Debt, the Company issued warrants to purchase up to an aggregate of approximately 5.9 million shares, or approximately five percent of its then outstanding common stock, at an exercise price of \$0.01 per share ("Warrants").

Upon issuance, the \$21.5 million fair value of the Warrants was recorded in additional paid-in capital on the accompanying balance sheets, and was determined using a stochastic Monte Carlo simulation using geometric Brownian motion ("GBM Model"). The Company evaluated the Warrants under authoritative accounting guidance and determined that they should be classified as equity instruments, with no recurring fair value measurement required. There have been no changes to the initial carrying amount of the Warrants since issuance.

The Warrant Agreement, dated as of June 17, 2020 ("Warrant Agreement"), provides that the Warrants are exercisable any time from and after the Triggering Date, as subsequently defined, until June 30, 2023. The Triggering Date, which occurred on January 15, 2021, is defined by the Warrant Agreement as the first trading day following five consecutive trading days on which the product of the number of shares of common stock issued and outstanding on four of the five trading days multiplied by the closing price per share of common stock for each such trading day exceeds \$1.0 billion ("Triggering Date"). The Warrants are indexed to the Company's common stock and are required to be settled through physical settlement or net share settlement, if exercised.

During 2021, the Company issued 5,918,089 shares of common stock as a result of the cashless exercise of 5,922,260 Warrants at a weighted-average share price of \$15.45 per share, as determined under the terms of the Warrant Agreement. At the request of stockholders and pursuant to the Company's obligations under the Warrant Agreement, a registration statement covering the resale of a majority of these shares was filed with the SEC on June 11, 2021. The unexercised Warrants will remain exercisable at the election of the holders until their expiration on June 30, 2023.

Note 4 - Income Taxes

The provision for income taxes consists of the following:

		31,				
		2021		2020		2019
			(in thousands)		_
Current portion of income tax (expense) benefit						
Federal	\$	_	\$	_	\$	3,826
State		(373)		(449)		(1,618)
Deferred portion of income tax (expense) benefit		(9,565)		192,540		41,835
Income tax (expense) benefit	\$	(9,938)	\$	192,091	\$	44,043
		_				
Effective tax rate		21.5 %		20.1 %		19.1 %

The components of the net deferred tax liabilities are as follows:

	As of Dec	As of December 31,	
	2021		2020
	(in tho	(in thousands)	
Deferred tax liabilities			
Oil and gas properties excluding asset retirement obligation liabilities \$	117,085	\$	83,816
Other	4,835		10,054
Total deferred tax liabilities	121,920		93,870
Deferred tax assets			
Derivative liabilities	69,283		36,311
Asset retirement obligation liabilities	21,899		18,424
Debt discount and deferred financing costs	20,551		23,925
Pension	7,413		7,183
Federal and state tax net operating loss carryovers	3,299		3,898
Stock compensation	2,246		2,701
Credit carryover	897		7,543
Other liabilities	5,024		7,273
Total deferred tax assets	130,612		107,258
Valuation allowance	(18,461)		(13,388)
Net deferred tax assets	112,151		93,870
Total net deferred tax liabilities \$	9,769	\$	
Current state income tax payable \$	362	\$	853

As of December 31, 2021, the Company estimated complete utilization of its federal net operating loss ("NOL"). The Company has state NOL carryforwards of \$4.2 million and de minimus state tax credits which expire between 2022 and 2037. The Company's current valuation allowance includes an amount for state NOL carryforwards and state tax credits, which are expected to expire before they can be utilized. The Company estimated its federal research and development ("R&D") credit carryforward at \$0.9 million, which will expire between 2028 and 2033 if not used, but the Company expects to utilize this credit before it expires. The remaining valuation allowance includes amounts related primarily to the Company's net derivative liabilities, a portion of which the Company estimates will convert to an unused federal NOL in future years as a result of having cumulative financial statement losses exceeding cumulative financial statement income for the periods included in the Company's accompanying statements of operations.

Recorded income tax expense or benefit differs from the amount that would be provided by applying the statutory United States federal income tax rate to income or loss before income taxes. These differences primarily relate to the effect of state income taxes, excess tax benefits and deficiencies from stock-based compensation awards, tax limitations on compensation of covered individuals, changes in valuation allowances, the cumulative impact of other smaller permanent differences, and can also reflect the

cumulative effect of an enacted tax rate change, in the period of enactment, on the Company's net deferred tax asset and liability balance. These differences are reported as follows:

	For the Years Ended December 31,							
	2021			2020		2019		
			(i	n thousands)				
Federal statutory tax (expense) benefit	\$	(9,695)	\$	200,908	\$	48,519		
(Increase) decrease in tax resulting from:								
Employee share-based compensation		3,080		(2,578)		(3,346)		
Acquisition basis, expired statute of limitation		1,658		_		_		
Return to provision		1,230		(857)		(152)		
State tax (expense) benefit (net of federal benefit)		(211)		5,722		(260)		
Compensation of covered individuals		(1,216)		(719)		(471)		
Change in valuation allowance		(5,073)		(10,318)		13		
Other		289		(67)		(260)		
Income tax (expense) benefit	\$	(9,938)	\$	192,091	\$	44,043		

Acquisitions, divestitures, drilling activity, and basis differentials, which impact the prices received for oil, gas, and NGLs, impact the apportionment of taxable income to the states where the Company owns oil and gas properties. As these factors change, the Company's state income tax rate changes. This change, when applied to the Company's total temporary differences, impacts the total state income tax (expense) benefit reported in the current year. Items affecting state apportionment factors are evaluated upon completion of the prior year income tax return, after significant acquisitions and divestitures, if there are significant changes in drilling activity, or if estimated state revenue changes occur during the year. During the year ended December 31, 2021, the Company recorded tax benefit and expense items which decreased the Company's change in valuation allowance and resulted in a net zero impact to the Company's 2021 tax rate.

The Coronavirus Aid, Relief, and Economic Security Act ("CARES Act") was enacted on March 27, 2020. The primary feature of the CARES Act that the Company benefited from was the acceleration of its refundable Alternative Minimum Tax ("AMT") credits. On April 1, 2020, the Company filed an election to accelerate its remaining refundable AMT credits of \$7.6 million. The Company received the refund in July 2020.

For all years before 2018, the Company is generally no longer subject to United States federal or state income tax examinations by tax authorities.

The Company complies with authoritative accounting guidance regarding uncertain tax provisions. The entire amount of unrecognized tax benefit reported by the Company would affect its effective tax rate if recognized. Interest expense in the accompanying statements of operations includes a negligible amount associated with income taxes. The total amount recorded for unrecognized tax benefits for each of the years ended December 31, 2021, 2020, and 2019, was \$0.4 million. The Company does not expect a significant change to the recorded unrecognized tax benefits in 2022.

Note 5 - Long-Term Debt

The following table summarizes the Company's total outstanding balance on its revolving credit facility, Senior Secured Notes net of unamortized discount and deferred financing costs, and Senior Unsecured Notes net of unamortized deferred financing costs, as of December 31, 2021, and 2020:

	As of D	ecember 31, 2021	As of	December 31, 2020
		(in tho	usands)	
Revolving credit facility	\$	_	\$	93,000
Senior Secured Notes (1)		407,712		460,656
Senior Unsecured Notes (1)		1,673,452		1,660,663
Total	\$	2,081,164	\$	2,214,319

⁽¹⁾ Senior Secured Notes and Senior Unsecured Notes are defined below.

Credit Agreement

The Company's Credit Agreement, which is scheduled to mature on September 28, 2023, provides for a senior secured revolving credit facility with a maximum loan amount of \$2.5 billion. As of December 31, 2021, the borrowing base and aggregate lender commitments under the Credit Agreement were \$1.1 billion. The next borrowing base redetermination date is scheduled for April 1, 2022. On June 8, 2021, the Company entered into a sixth amendment to the Credit Agreement which amended certain definitions and covenants relating to the Company's ability to issue permitted refinancing debt and to repurchase or redeem outstanding indebtedness to facilitate the Tender Offer and the 2022 Senior Notes Redemption, each as defined below.

Interest and commitment fees associated with the revolving credit facility are accrued based on a borrowing base utilization grid set forth in the Credit Agreement, as presented in the table below. At the Company's election, borrowings under the Credit Agreement may be in the form of Eurodollar, Alternate Base Rate ("ABR"), or Swingline loans. Eurodollar loans accrue interest at LIBOR, plus the applicable margin from the utilization grid, and ABR and Swingline loans accrue interest at a market-based floating rate, plus the applicable margin from the utilization grid. Commitment fees are accrued on the unused portion of the aggregate lender commitment amount at rates from the utilization grid and are included in the interest expense line item on the accompanying statements of operations.

Borrowing Base Utilization Percentage	<25%	≥25% <50%	≥50% <75%	≥75% <90%	≥90%
Eurodollar Loans (1)	1.750 %	2.000 %	2.500 %	2.750 %	3.000 %
ABR Loans or Swingline Loans	0.750 %	1.000 %	1.500 %	1.750 %	2.000 %
Commitment Fee Rate	0.375 %	0.375 %	0.500 %	0.500 %	0.500 %

(1) LIBOR was discontinued as a global reference rate for new loans and contracts after December 31, 2021. The Credit Agreement specifies that if LIBOR is no longer a widely used benchmark rate, or if it is no longer used for determining interest rates for loans in the United States, a replacement interest rate that fairly reflects the cost to the lenders of funding loans shall be established by the Administrative Agent, as defined in the Credit Agreement, in consultation with the Company. During 2022, in advance of the maturity date of the Company's existing Credit Agreement, the Company expects to enter into a new credit agreement that will, in addition to other negotiated terms, conditions, agreements, and other provisions, specify a new interest rate for Eurodollar loans. The Company does not expect to incur borrowings in the form of Eurodollar loans prior to that time. Please refer to Note 1 – Summary of Significant Accounting Policies of discussion of FASB ASU 2020-04 and ASU 2021-01, which provide guidance related to reference rate reform.

The following table presents the outstanding balance, total amount of letters of credit outstanding, and available borrowing capacity under the Credit Agreement as of February 10, 2022, December 31, 2021, and December 31, 2020:

	As of F	ebruary 10, 2022	As	of December 31, 2021	As	of December 31, 2020
				(in thousands)		
Revolving credit facility (1)	\$	_	\$	_	\$	93,000
Letters of credit (2)		2,500		2,500		42,000
Available borrowing capacity		1,097,500		1,097,500		965,000
Total aggregate lender commitment amount	\$	1,100,000	\$	1,100,000	\$	1,100,000

⁽¹⁾ Unamortized deferred financing costs attributable to the revolving credit facility are presented as a component of the other noncurrent assets line item on the accompanying balance sheets and totaled \$2.7 million and \$4.3 million as of December 31, 2021, and 2020, respectively. These costs are being amortized over the term of the revolving credit facility on a straight-line basis.

⁽²⁾ Letters of credit outstanding reduce the amount available under the revolving credit facility on a dollar-for-dollar basis.

Senior Secured Notes

Senior Secured Notes, net of unamortized discount and deferred financing costs, included within the Senior Notes, net line item on the accompanying balance sheets as of December 31, 2021, and December 31, 2020, consisted of the following (collectively referred to as "Senior Secured Notes"):

				As of Dece	mber	31, 2021		
		Principal Amount		namortized ebt Discount		Jnamortized Deferred nancing Costs		Net
				(in the	ousan	ds)		
10.0% Senior Secured Notes due 2025	\$	446,675	\$	30,236	\$	8,727	\$	407,712
	As of December 31, 2020							
		Principal Amount	_	namortized ebt Discount		Jnamortized Deferred nancing Costs		Net
				(in the	ousan	ds)		
1.50% Senior Secured Convertible Notes due 2021	\$	65,485	\$	1,828	\$	175	\$	63,482
10.0% Senior Secured Notes due 2025		446,675		37,943		11,558		397,174
Total	\$	512.160	\$	39,771	\$	11.733	\$	460.656

The Senior Secured Notes listed above are senior obligations of the Company, secured on a second-priority basis, ranking junior to the Company's obligations under the Credit Agreement. The Senior Secured Notes rank senior in right of payment with all of the Company's existing and any future unsecured senior or subordinated debt.

2021 Senior Secured Convertible Notes. On August 12, 2016, the Company issued \$172.5 million in aggregate principal amount of 1.50% Senior Convertible Notes with a maturity date of July 1, 2021 ("2021 Senior Convertible Notes").

Upon issuance of the 2021 Senior Convertible Notes, the Company received net proceeds of \$166.6 million after deducting fees of \$5.9 million, of which a portion was amortized over the life of the 2021 Senior Convertible Notes. The Company recorded \$132.3 million as the initial carrying amount of the debt component, which approximated its fair value at issuance, and was estimated by using an interest rate for nonconvertible debt with terms similar to the Senior Convertible Notes. The effective interest rate used was 7.25%. The \$40.2 million excess of the principal amount of the 2021 Senior Convertible Notes over the fair value of the debt component was recorded as a debt discount and a corresponding increase in additional paid-in capital. The Company incurred fees of \$5.9 million relating to the issuance of the 2021 Senior Convertible Notes, which were allocated between the debt and equity components in proportion to their determined fair value amounts.

In connection with the issuance of the 2021 Senior Convertible Notes, the Company entered into capped call transactions with affiliates of the underwriters of such issuance. The aggregate cost of the capped call transactions was approximately \$24.2 million. The Company classified the costs associated with the capped call transactions as equity instruments with no recurring fair value measurement recorded. The capped call transactions expired upon the maturity of the 2021 Senior Convertible Notes on July 1, 2021.

During the second quarter of 2020, the Company agreed to satisfy any conversion obligation solely in cash, resulting in the reclassification of the fair value of the equity components related to the debt discount and the capped call transactions out of additional paid-in capital. The debt discount and debt-related issuance costs were amortized to the principal value of the 2021 Senior Secured Convertible Notes as interest expense through the maturity date. Interest expense recognized on the 2021 Senior Secured Convertible Notes related to the stated interest rate and amortization of the debt discount and totaled \$2.3 million, \$7.7 million, and \$11.0 million for the years ended December 31, 2021, 2020, and 2019, respectively.

Upon the closing of the Exchange Offers on June 17, 2020, the Company retired \$107.0 million in aggregate principal amount of its 2021 Senior Convertible Notes and at that time, the remaining outstanding 2021 Senior Convertible Notes became secured and are subsequently referred to as "2021 Senior Secured Convertible Notes". The Company canceled all 2021 Senior Convertible Notes that were retired upon closing of the Exchange Offers. See below for additional discussion and definition of Exchange Offers. On July 1, 2021, the Company used borrowings under its revolving credit facility to retire, at par, the remaining outstanding principal amount of \$65.5 million.

2025 Senior Secured Notes. On June 17, 2020, the Company issued \$446.7 million in aggregate principal amount of 10.0% Senior Secured Notes ("2025 Senior Secured Notes"), at par, which mature on January 15, 2025. The Company incurred fees of \$13.1 million, which are being amortized as deferred financing costs over the life of the 2025 Senior Secured Notes. Upon the issuance of the 2025 Senior Secured Notes, the Company recorded \$405.0 million as the initial carrying amount, which approximated their fair

value at issuance. The excess of the principal amount of the 2025 Senior Secured Notes over its fair value was recorded as a debt discount. The debt discount and deferred financing costs are being amortized to interest expense through the maturity date. The Company may redeem some or all of its 2025 Senior Secured Notes prior to their maturity at redemption prices based on a premium, plus accrued and unpaid interest, as described in the indenture governing the 2025 Senior Secured Notes.

Senior Unsecured Notes

Senior Unsecured Notes, net of unamortized deferred financing costs, included within the Senior Notes, net line item on the accompanying balance sheets as of December 31, 2021, and 2020, consisted of the following:

	As	of D	December 31,	202	21		As of December 31, 2020					
	 Principal Amount	Unamortized Deferred Financing Costs		,	Principal Amount, Net (in tho	Principal Amount	_	Unamortized Deferred Financing Costs		Principal Amount, Net		
6.125% Senior Notes due 2022	\$ _	\$	_	\$	_	\$	212,403	\$	855	\$	211,548	
5.0% Senior Notes due 2024	104,769		403		104,366		277,034		1,576		275,458	
5.625% Senior Notes due 2025	349,118		2,160		346,958		349,118		2,792		346,326	
6.75% Senior Notes due 2026	419,235		3,270		415,965		419,235		3,970		415,265	
6.625% Senior Notes due 2027	416,791		3,949		412,842		416,791		4,725		412,066	
6.5% Senior Notes due 2028	400,000		6,679		393,321							
Total	\$ 1,689,913	\$	16,461	\$	1,673,452	\$	1,674,581	\$	13,918	\$	1,660,663	

The senior unsecured notes listed above (collectively referred to as "Senior Unsecured Notes," and together with the Senior Secured Notes, "Senior Notes") are unsecured senior obligations and rank equal in right of payment with all of the Company's existing and any future unsecured senior debt and are senior in right of payment to any future subordinated debt. The Company may redeem some or all of its Senior Unsecured Notes prior to their maturity at redemption prices based on a premium, plus accrued and unpaid interest as described in the indentures governing the Senior Unsecured Notes. Fees incurred upon issuance of each series of Senior Unsecured Notes are being amortized as deferred financing costs over the life of the respective notes, unless earlier redeemed or retired, in which case amortization has been proportionately accelerated.

2022 Senior Notes. On November 17, 2014, the Company issued \$600.0 million in aggregate principal amount of 6.125% Senior Notes due 2022, at par, which mature on November 15, 2022 ("2022 Senior Notes"). The Company received net proceeds of \$590.0 million after deducting fees of \$10.0 million.

2024 Senior Notes. On May 20, 2013, the Company issued \$500.0 million in aggregate principal amount of 5.0% Senior Notes due 2024, at par, which mature on January 15, 2024 ("2024 Senior Notes"). The Company received net proceeds of \$490.2 million after deducting fees of \$9.8 million.

2025 Senior Notes. On May 21, 2015, the Company issued \$500.0 million in aggregate principal amount of 5.625% Senior Notes due 2025, at par, which mature on June 1, 2025. The Company received net proceeds of \$491.0 million after deducting fees of \$9.0 million.

2026 Senior Notes. On September 12, 2016, the Company issued \$500.0 million in aggregate principal amount of 6.75% Senior Notes due 2026, at par, which mature on September 15, 2026. The Company received net proceeds of \$491.6 million after deducting fees of \$8.4 million.

2027 Senior Notes. On August 20, 2018, the Company issued \$500.0 million in aggregate principal amount of 6.625% Senior Notes due 2027, at par, which mature on January 15, 2027. The Company received net proceeds of \$492.1 million after deducting fees of \$7.9 million.

2028 Senior Notes. On June 23, 2021, the Company issued \$400.0 million in aggregate principal amount of 6.5% Senior Notes due 2028, at par, which mature on July 15, 2028 ("2028 Senior Notes"). The Company received net proceeds of \$392.8 million after deducting fees of \$7.2 million.

Senior Notes Activity

2022 Senior Notes Transactions. On February 14, 2022, the Company redeemed the remaining \$104.8 million of aggregate principal amount outstanding of its 2024 Senior Notes, with cash on hand, pursuant to the terms of the indenture governing the 2024 Senior Notes which provided for a redemption price equal to 100 percent of the principal amount of the 2024 Senior Notes on the date

of redemption, plus accrued and unpaid interest. Upon redemption, the Company accelerated the amortization of all remaining previously unamortized deferred financing costs.

2021 Senior Notes Transactions. On June 23, 2021, the Company issued \$400.0 million in aggregate principal amount of its 2028 Senior Notes, as described above. The net proceeds of \$392.8 million were used to repurchase \$193.1 million and \$172.3 million of outstanding principal amount of the Company's 2022 Senior Notes and 2024 Senior Notes, respectively, through a cash tender offer ("Tender Offer"), and to redeem the remaining \$19.3 million of 2022 Senior Notes not repurchased as part of the Tender Offer ("2022 Senior Notes Redemption"). The Company paid total consideration, excluding accrued interest, of \$385.3 million, and recorded a net loss on extinguishment of debt of \$2.1 million for the year ended December 31, 2021, which included the accelerated amortization of \$1.5 million of previously unamortized deferred financing costs and \$0.6 million of net premiums. The Company canceled all repurchased and redeemed 2022 Senior Notes and 2024 Senior Notes upon settlement.

2020 Senior Notes Transactions. During the second quarter of 2020, the Company initiated an offer to exchange certain of its then outstanding Senior Unsecured Notes, other than its 2021 Senior Convertible Notes, (and together with the Senior Unsecured Notes, "Old Notes"), and entered into a private exchange of certain of its then outstanding 2021 Senior Convertible Notes and portions of its then outstanding Senior Unsecured Notes ("Private Exchange"), in each case, for newly issued 2025 Senior Secured Notes, referred to together as "Exchange Offers."

On June 17, 2020, the Company exchanged \$611.9 million in aggregate principal amount of Senior Unsecured Notes and \$107.0 million in aggregate principal amount of 2021 Senior Convertible Notes for \$446.7 million in aggregate principal amount of 2025 Senior Secured Notes. Further, in connection with the Private Exchange, the Company tendered \$53.5 million in cash to certain holders of the 2021 Senior Convertible Notes and issued the Warrants. Please refer to Note 3 - Equity for more information regarding the Warrants. Upon the closing of the Exchange Offers, the Company recorded a net gain on extinguishment of debt of \$227.3 million which included the accelerated amortization of \$6.1 million and \$5.6 million of previously unamortized debt discount and deferred financing costs, respectively.

Upon the closing of the Exchange Offers, the Company retired \$11.9 million in aggregate principal amount of its Senior Unsecured Notes. Portions of the thenoutstanding principal amount of each series of our Senior Unsecured Notes listed below were tendered and retired in connection with the Exchange Offers. The following table summarizes the principal amounts of the Senior Unsecured Notes tendered as of the Settlement Date:

Title of Senior Unsecured Notes Tendered	Principal Amount of Senior Unsecured Notes Tendered						
	()	in thousands)					
6.125% Senior Notes due 2022	\$	141,701					
5.0% Senior Notes due 2024		155,339					
5.625% Senior Notes due 2025		150,882					
6.75% Senior Notes due 2026		80,765					
6.625% Senior Notes due 2027		83,209					
Total	\$	611,896					

The Company canceled all Senior Unsecured Notes that were retired upon closing of the Exchange Offers.

Additionally, during 2020, in open market transactions, the Company repurchased a total of \$122.7 million and \$67.6 million in aggregate principal amount of its 2022 Senior Notes and 2024 Senior Notes, respectively, for a total settlement amount, excluding accrued interest, of \$136.5 million. In connection with the repurchases, the Company recorded a net gain on extinguishment of debt of \$52.8 million for the year ended December 31, 2020. This amount included discounts realized upon repurchase of \$53.8 million partially offset by approximately \$1.0 million related to the accelerated amortization of previously unamortized deferred financing costs. The Company canceled all repurchased 2022 Senior Notes and 2024 Senior Notes upon settlement.

Covenants

The Company is subject to certain financial and non-financial covenants under the Credit Agreement and the indentures governing the Senior Notes that, among other terms, limit the Company's ability to incur additional indebtedness, make restricted payments including dividends, sell assets, create liens that secure debt, enter into transactions with affiliates, merge or consolidate with another company, and with respect to the Company's restricted subsidiaries, permit the consensual restriction on the ability of such restricted subsidiaries to pay dividends or indebtedness owing to the Company or to any other restricted subsidiaries. The financial covenants under the Credit Agreement require that the Company's (a) total funded debt, as defined in the Credit Agreement, to 12-month trailing adjusted EBITDAX ratio cannot be greater than 4.00 to 1.00 on the last day of each fiscal quarter; and (b) adjusted current ratio, as defined in the Credit Agreement, cannot be less than 1.00 to 1.00 as of the last day of any fiscal quarter. The Company

was in compliance with all covenants under the Credit Agreement and the indentures governing the Senior Notes as of December 31, 2021, and through the filing of this report.

Capitalized Interest

Capitalized interest costs for the years ended December 31, 2021, 2020, and 2019, totaled \$5.0 million, \$15.8 million, and \$18.5 million, respectively. The amount of interest the Company capitalizes generally fluctuates based on the amount borrowed, the Company's capital program, and the timing and amount of costs associated with capital projects that are considered in progress. Capitalized interest costs are included in total costs incurred. Please refer to Costs Incurred in Overview of the Company in Part II, Item 7, and Supplemental Oil and Gas Information (unaudited) in Part II, Item 8 of this report.

Note 6 - Commitments and Contingencies

Commitments

As of December 31, 2021, the Company had entered into various agreements, which included drilling rig contracts of \$7.7 million, gathering, processing, transportation throughput, and delivery commitments of \$96.9 million, office leases, including maintenance, of \$40.5 million, fixed price contracts to purchase electricity of \$38.0 million, and other miscellaneous contracts and leases of \$15.2 million. As of December 31, 2021, the annual minimum payments for the next five years and total minimum payments thereafter are presented below:

For the Years Ending December 31,	Amount			
	(in thousands)			
2022	\$	83,565		
2023		48,473		
2024		15,530		
2025		14,882		
2026		14,205		
Thereafter		21,665		
Total	\$	198,320		

Drilling Rig and Completion Service Contracts. The Company has drilling rig and completion service contracts in place to facilitate its drilling and completion plans. As of December 31, 2021, the Company's drilling rig commitments totaled \$7.7 million under contract terms extending through the third quarter of 2022. If all of these contracts were terminated as of December 31, 2021, the Company would avoid a portion of the contractual service commitments; however, the Company would be required to pay \$4.9 million in early termination fees. Subsequent to December 31, 2021, the Company entered into a new drilling rig contract, and as of the filing of this report, the Company's drilling rig commitments totaled \$10.1 million under contract terms extending through the fourth quarter of 2022. If all of these contracts were terminated as of the filing of this report, the Company would avoid a portion of the contractual service commitments; however, the Company would be required to pay \$6.3 million in early termination fees. Excluded from these amounts are variable commitments and potential penalties determined by the number of completion crews the Company has in operation in a particular area under a completion service agreement. As of December 31, 2021, potential penalties under this completion service agreement, which expires on December 31, 2023, range from zero to a maximum of \$6.7 million. No material expenses related to early termination or standby fees were incurred by the Company during the year ended December 31, 2021, and the Company does not expect to incur material penalties with regard to its drilling rig and completion service contracts during 2022

Pipeline Transportation Commitments. The Company has gathering, processing, transportation throughput, and delivery commitments with various third-parties that require delivery of a minimum amount of oil, gas, and produced water. As of December 31, 2021, the Company has commitments to deliver a minimum of 10 MMBbl of oil and 89 Bcf of gas through 2024, and 14 MMBbl of produced water through 2027. The Company will be required to make periodic deficiency payments for any shortfalls in delivering the minimum volume commitments under certain agreements. As of December 31, 2021, if the Company fails to deliver any product, as applicable, the aggregate undiscounted deficiency payments total approximately \$96.9 million. This amount does not include deficiency payment estimates associated with approximately 8 MMBbl of future oil delivery commitments where the Company cannot predict with accuracy the amount and timing of these payments, as such payments are dependent upon the price of oil in effect at the time of settlement. The Company expects to fulfill the delivery commitments from a combination of production from existing productive wells, future development of proved undeveloped reserves, and future development of resources not yet characterized as proved reserves. Under certain of the Company's commitments, if the Company is unable to deliver the minimum quantity from its production, it may deliver production acquired from third-parties to satisfy its minimum volume commitments. As of the filing of this report, the Company does not expect to incur material shortfalls with regard to these commitments.

Office Leases. The Company leases office space under various operating leases totaling \$40.5 million, including maintenance, with certain terms extending into 2033. Rent expense for the years ended December 31, 2021, 2020, and 2019, was \$4.8 million, \$5.4 million, and \$5.5 million, respectively.

Electrical Power Purchase Contracts. As of December 31, 2021, the Company had a fixed price contract for the purchase of electrical power through 2027 with a total remaining obligation of \$38.0 million.

Delivery and Purchase Commitments. As of December 31, 2021, the Company had a sand sourcing agreement with certain commitments and potential penalties that vary based on the amount of sand the Company uses in well completions occurring in a particular area. This sand sourcing agreement expires on December 31, 2023. As of December 31, 2021, potential penalties under this sand sourcing agreement range from zero to a maximum of \$10.0 million. The Company does not expect to incur penalties with regard to this agreement.

Drilling and Completion Commitments. During 2021, the Company amended an agreement that includes minimum drilling and completion footage requirements on certain existing leases. If these minimum requirements are not satisfied by March 31, 2022, the Company will be required to pay liquidated damages based on the difference between the actual footage drilled and completed and the minimum requirements. As of December 31, 2021, the liquidated damages could range from zero to a maximum of \$17.7 million, with the maximum exposure assuming no additional development activity occurred prior to March 31, 2022. The Company does not expect to incur material liquidated damages with regard to this agreement.

Contingencies

The Company is subject to litigation and claims arising in the ordinary course of business. The Company accrues for such items when a liability is both probable and the amount can be reasonably estimated. In the opinion of management, the anticipated results of any pending litigation and claims are not expected to have a material effect on the results of operations, the financial position, or the cash flows of the Company.

Note 7 - Compensation Plans

Equity Incentive Compensation Plan

As of December 31, 2021, approximately 4.9 million shares of common stock were available for grant under the Equity Plan. The issuance of a direct share benefit, such as a share of common stock, a stock option, a restricted share, an RSU, or a PSU, counts as one share against the number of shares available to be granted under the Equity Plan. Each PSU has the potential to count as two shares against the number of shares available to be granted under the Equity Plan based on the final performance multiplier.

Performance Share Units

The Company may grant PSUs to eligible employees as part of its Equity Plan. The number of shares of the Company's common stock issued to settle PSUs ranges from zero to two times the number of PSUs awarded and is determined based on certain criteria over athree-year performance period. PSUs generally vest on the third anniversary of the date of the grant or upon other triggering events as set forth in the Equity Plan. Employees who are retirement eligible at the time a PSU award is granted, vest in each portion of that award equally in six-month increments over a three-year period beginning at the grant date. Retirement eligible employees must stay with the Company through the entire six-month vesting period to receive that increment of vesting and any non-vested portions of a PSU award will be forfeited when the employee leaves the Company.

The fair value of PSUs is measured at the grant date using a stochastic Monte Carlo simulation using the GBM Model. A stochastic process is a mathematically defined equation that can create a series of outcomes over time. These outcomes are not deterministic in nature, which means that by iterating the equations multiple times, different results will be obtained for each iteration. In the case of the Company's PSUs, the Company cannot predict with certainty the path its stock price or the stock prices of its peers will take over the three-year performance period. By using a stochastic simulation, the Company can create multiple prospective stock pathways, statistically analyze these simulations, and ultimately make inferences regarding the path the stock price may take. As such, because future stock prices are stochastic, or probabilistic with some direction in nature, the stochastic method, specifically the GBM Model, is deemed an appropriate method by which to determine the fair value of the PSUs. Significant assumptions used in this simulation include the Company's expected volatility, dividend yield, and risk-free interest rate based on U.S. Treasury yield curve rates with maturities consistent with a three-year vesting period, as well as the volatilities and dividend yields for each of the Company's peers.

For PSUs granted in 2018 and 2019, which the Company determined to be equity awards, the settlement criteria include a combination of the Company's Total Shareholder Return ("TSR") relative to the TSR of certain peer companies and the Company's cash return on total capital invested ("CRTCI") relative to the CRTCI of certain peer companies over the associated three-year performance period. In addition to these performance criteria, the award agreements for these grants also stipulate that if the Company's absolute TSR is negative over the three-year performance period, the maximum number of shares of common stock that can be issued to settle

outstanding PSUs is capped at one times the number of PSUs granted on the award date, regardless of the Company's TSR and CRTCI performance relative to its peer group. The fair value of the PSUs granted in 2018 and 2019 was measured on the applicable grant dates using the GBM Model, with the assumption that the associated CRTCI performance condition will be met at the target amount at the end of the respective performance periods. Compensation expense for PSUs is recognized within general and administrative expense and exploration expense over the vesting periods of the respective awards. As these awards depend on a combination of performance-based settlement criteria and market-based settlement criteria, compensation expense may be adjusted in future periods as the number of units expected to vest increases or decreases based on the Company's expected CRTCI performance relative to the applicable peer companies. The PSUs granted in 2018 fully vested during 2021 and were settled as discussed below.

The Company records compensation expense associated with the issuance of PSUs based on the fair value of the awards as of the grant date. Total compensation expense recorded for PSUs was \$6.0 million, \$4.4 million, and \$10.9 million for the years ended December 31, 2021, 2020, and 2019, respectively. As of December 31, 2021, there was \$1.4 million of total unrecognized expense related to non-vested PSUs, which is being amortized through mid-2022.

A summary of activity is presented in the following table:

464,483 \$

			F	or the Years E	nded	l December 31,			
·	:		:	2020		2	2019		
	PSUs ⁽¹⁾	Ave	Veighted- erage Grant- e Fair Value	PSUs (1)	Ave	Weighted- erage Grant- te Fair Value	PSUs (1)	Ave	/eighted- rage Grant- e Fair Value
Non-vested at beginning of year	830,464	\$	17.52	2,022,585	\$	16.87	1,711,259	\$	20.68
Granted	_	\$	_	_	\$	_	793,125	\$	12.80
Vested	(352,395)	\$	23.81	(792,572)	\$	15.85	(346,021)	\$	26.32
Forfeited	(13,586)	\$	15.46	(399,549)	\$	17.56	(135,778)	\$	16.98

830,464 \$

17 52

2,022,585 \$

16 87

The fair value of the PSUs granted in 2019 was \$10.2 million. No PSUs were granted in 2021 or 2020.

12 80

A summary of the shares of common stock issued to settle employee PSUs is presented in the table below:

	For the Years Ended	l December 31,
	2021	2020
Shares of common stock issued to settle PSUs (1)	347,742	700,511
Less: shares of common stock withheld for income and payroll taxes	(112,919)	(215,451)
Net shares of common stock issued	234,823	485,060
	4.0	0.0
Multiplier earned	1.0	0.9

⁽¹⁾ During the years ended December 31, 2021, and 2020, the Company settled PSUs that were granted in 2018 and 2017, respectively. The Company and all eligible recipients in 2021 and the majority of eligible recipients in 2020, mutually agreed to net share settle a portion of the awards to cover income and payroll tax withholdings, as provided for in the Equity Plan and applicable award agreements.

During the year ended December 31, 2019, PSUs that were granted in 2016 did not satisfy the minimum performance requirements. This resulted in a multiplier of zero times and no shares of common stock were issued upon settlement.

The total fair value of PSUs that vested during the years ended December 31, 2021, 2020, and 2019, was \$.4 million, \$12.6 million, and \$9.1 million, respectively.

Employee Restricted Stock Units

Non-vested at end of year

The Company may grant RSUs to eligible persons as part of its Equity Plan. Each RSU represents a right to receive one share of the Company's common stock upon settlement of the award at the end of the specified vesting period. RSUs generally vest one-third of the total grant on each anniversary date of the grant over the applicable vesting period or upon other triggering events as

⁽¹⁾ The number of shares of common stock assumes a multiplier of one. The actual final number of shares of common stock to be issued will range from zero to two times the number of PSUs awarded depending on the three-year performance multiplier.

set forth in the Equity Plan. Employees who are retirement eligible at the time an RSU award is granted generally vest in each portion of that award equally in six-month increments over the applicable vesting period beginning at the grant date. Retirement eligible employees must stay with the Company through the entire six-month vesting period to receive that increment of vesting and any non-vested portions of an RSU award will be forfeited when the employee leaves the Company.

The Company records compensation expense associated with the issuance of RSUs based on the fair value of the awards as of the grant date. The fair value of an RSU is equal to the closing price of the Company's common stock on the date of the grant. Compensation expense for RSUs is recognized within general and administrative expense and exploration expense over the vesting periods of the respective awards. Total compensation expense recorded for employee RSUs for the years ended December 31, 2021, 2020, and 2019, was \$10.2 million, \$8.7 million, and \$11.1 million, respectively. As of December 31, 2021, there was \$20.7 million of total unrecognized compensation expense related to non-vested RSUs, which is being amortized through mid-2024.

A summary of activity is presented in the following table:

For the	Years	Ended	December	31,
---------	-------	-------	----------	-----

			-						
	20		20	20		2019			
	RSUs	Weighted- Average Grant-Date Fair Value		RSUs	(Weighted- Average Grant-Date Fair Value	RSUs	Weighted- Average Grant-Date Fair Value	
Non-vested at beginning of year	2,097,860	\$	8.83	1,532,131	\$	16.01	1,243,163	\$	21.50
Granted	666,052	\$	25.52	1,458,869	\$	5.98	978,932	\$	12.36
Vested	(843,098)	\$	11.00	(746,132)	\$	16.74	(466,535)	\$	21.94
Forfeited	(79,577)	\$	10.64	(147,008)	\$	15.34	(223,429)	\$	18.16
Non-vested at end of year	1,841,237	\$	13.79	2,097,860	\$	8.83	1,532,131	\$	16.01

The fair value of RSUs granted to eligible employees in 2021, 2020, and 2019, was \$7.0 million, \$8.7 million, and \$12.1 million, respectively.

A summary of the shares of common stock issued to settle employee RSUs is presented in the table below:

	For the Ye	For the Years Ended December 31,						
	2021	2020	2019					
Shares of common stock issued to settle RSUs ⁽¹⁾	843,098	746,132	466,535					
Less: shares of common stock withheld for income and payroll taxes	(250,349)	(209,173)	(132,136)					
Net shares of common stock issued	592,749	536,959	334,399					

⁽¹⁾ During the years ended December 31, 2021, 2020, and 2019, the Company issued shares of common stock to settle RSUs that related to awards granted in previous years. The Company and all eligible recipients in 2021, and the majority of eligible recipients in 2020, and 2019 mutually agreed to net share settle a portion of the awards to cover income and payroll tax withholdings in accordance with the Company's Equity Plan and individual award agreements.

The total fair value of employee RSUs that vested during the years ended December 31, 2021, 2020, and 2019, was \$.3 million, \$12.5 million, and \$10.2 million, respectively.

Director Shares

In 2021, 2020, and 2019, the Company issued 60,510, 267,576, and 96,719 shares, respectively, of its common stock to its non-employee directors under the Equity Plan. For the years ended December 31, 2021, 2020, and 2019, the Company recorded \$1.2 million, \$1.0 million, and \$1.2 million, respectively, of compensation expense related to director shares. All shares issued to non-employee directors fully vest on December 31 of the year granted.

Employee Stock Purchase Plan

Under the Company's Employee Stock Purchase Plan ("ESPP"), eligible employees may purchase shares of the Company's common stock through payroll deductions of up to 15 percent of eligible compensation, subject to a maximum of 2,500 shares per offering period and a maximum of \$25,000 in value related to purchases for each calendar year. The purchase price of the common stock is 85 percent of the lower of the trading price of the common stock on either the first or last day of the sixmonth offering period.

The ESPP is intended to qualify as an "employee stock purchase plan" under Section 423 of the IRC. The Company had approximately 3.5 million shares of its common stock available for issuance under the ESPP as of December 31, 2021. There were 313,773, 464,757, and 314,868 shares issued under the ESPP in 2021, 2020, and 2019, respectively. Total proceeds to the Company for the issuance of these shares was \$2.6 million, \$1.5 million, and \$3.2 million, for the years ended December 31, 2021, 2020, and 2019, respectively.

The fair value of ESPP grants is measured at the grant date using the Black-Scholes option-pricing model. Expected volatility is calculated based on the Company's historical daily common stock price, and the risk-free interest rate is based on U.S. Treasury yield curve rates with maturities consistent with a six-month vesting period.

The fair value of ESPP shares issued during the periods reported above were estimated using the following weighted-average assumptions:

_	For the Years Ended December 31,				
	2021	2020	2019		
Risk free interest rate	0.8 %	0.8 %	2.3 %		
Dividend yield	0.3 %	0.7 %	0.7 %		
Volatility factor of the expected market price of the Company's common stock	106.1 %	166.2 %	56.6 %		
Expected life (in years)	0.5	0.5	0.5		

For the years ended December 31, 2021, 2020, and 2019, the Company expensed \$.4 million, \$0.9 million, and \$1.1 million, respectively, based on the estimated fair value of the ESPP grants.

401(k) Plan

The Company has a defined contribution plan ("401(k) Plan") that is subject to the Employee Retirement Income Security Act of 1974. The 401(k) Plan allows eligible employees to contribute a maximum of 60 percent of their base salaries up to the contribution limits established under the IRC. For employees hired before December 31, 2014, the Company matches 100 percent of each employee's contribution in cash on a dollar-for-dollar basis, up tosix percent of the employee's base salary and performance bonus, and may make additional contributions at its discretion. The Company matches 150 percent of contributions made by employees hired after December 31, 2014, up to six percent of the employee's base salary and performance bonus in lieu of pension plan benefits, and may make additional contributions at its discretion. Please refer to *Note 11 – Pension Benefits* for additional discussion of pension benefits. The Company's matching contributions to the 401(k) Plan were \$3.9 million, \$4.2 million, and \$5.1 million for the years ended December 31, 2021, 2020, and 2019, respectively.

Note 8 - Fair Value Measurements

The Company follows fair value measurement accounting guidance for all assets and liabilities measured at fair value. This guidance defines fair value as the price that would be received to sell an asset or paid to transfer a liability (an exit price) in an orderly transaction between market participants at the measurement date. Market or observable inputs are the preferred sources of values, followed by assumptions based on hypothetical transactions in the absence of market inputs. The fair value hierarchy for grouping these assets and liabilities is based on the significance level of the following inputs:

- Level 1 quoted prices in active markets for identical assets or liabilities
- Level 2 quoted prices in active markets for similar assets or liabilities, quoted prices for identical or similar instruments in markets that are not active, and model-derived valuations whose inputs are observable or whose significant value drivers are observable
- Level 3 significant inputs to the valuation model are unobservable

The following table is a listing of the Company's assets and liabilities that are measured at fair value in the accompanying balance sheets and where they are classified within the fair value hierarchy as of December 31, 2021:

	Level 1	l	Level 2			Level 3	
			(i	n thousands)			
Assets:							
Derivatives (1)	\$	_	\$	24,334	\$		_
Liabilities:							
Derivatives (1)	\$	_	\$	345,202	\$		_

⁽¹⁾ This represents a financial asset or liability that is measured at fair value on a recurring basis.

The following table is a listing of the Company's assets and liabilities that are measured at fair value in the accompanying balance sheets and where they are classified within the fair value hierarchy as of December 31, 2020:

	Le	evel 1		Level 2		Level 3						
		(in thousands)										
Assets:												
Derivatives (1)	\$	_	\$	54,353	\$		_					
Liabilities:												
Derivatives (1)	\$	_	\$	222,520	\$		_					

⁽¹⁾ This represents a financial asset or liability that is measured at fair value on a recurring basis.

Both financial and non-financial assets and liabilities are categorized within the above fair value hierarchy based on the lowest level of input that is significant to the fair value measurement. The following is a description of the valuation methodologies used by the Company as well as the general classification of such instruments pursuant to the above fair value hierarchy. Please refer to *Note 1 – Summary of Significant Accounting Policies* for additional information on the Company's policies for determining fair value for the categories discussed below.

Derivatives

The Company uses Level 2 inputs to measure the fair value of oil, gas, and NGL commodity derivative instruments. Fair values are based upon interpolated data. The Company derives internal valuation estimates taking into consideration forward commodity price curves, counterparties' credit ratings, the Company's credit rating, and the time value of money. These valuations are then compared to the respective counterparties' mark-to-market statements. The considered factors result in an estimated exit price that management believes provides a reasonable and consistent methodology for valuing derivative instruments. The commodity derivative instruments utilized by the Company are not considered by management to be complex, structured, or illiquid. The oil, gas, and NGL commodity derivative markets are highly active.

Generally, market quotes assume that all counterparties have near zero, or low, default rates and have equal credit quality. However, an adjustment may be necessary to reflect the credit quality of a specific counterparty to determine the fair value of the instrument. The Company monitors the credit ratings of its counterparties and may require counterparties to post collateral if their ratings deteriorate. In some instances, the Company will attempt to novate the trade to a more stable counterparty.

Valuation adjustments are necessary to reflect the effect of the Company's credit quality on the fair value of any commodity derivative liability position. This adjustment takes into account any credit enhancements, such as collateral margin that the Company may have posted with a counterparty, as well as any letters of credit between the parties. The methodology to determine this adjustment is consistent with how the Company evaluates counterparty credit risk, taking into account the Company's credit rating, current revolving credit facility margins, and any change in such margins since the last measurement date.

The methods described above may result in a fair value estimate that may not be indicative of net realizable value or may not be reflective of future fair values and cash flows. While the Company believes that the valuation methods utilized are appropriate and consistent with authoritative accounting guidance and other marketplace participants, the Company recognizes that third parties may use different methodologies or assumptions to determine the fair value of certain financial instruments that could result in a different estimate of fair value at the reporting date.

Please refer to Note 10 - Derivative Financial Instruments for more information regarding the Company's derivative instruments.

Oil and Gas Properties and Other Property and Equipment

The Company had no assets included in total property and equipment, net, measured at fair value as of December 31, 2021, or 2020.

The following table presents impairment of proved properties expense and abandonment and impairment of unproved properties expense recorded for the periods presented:

For the Years Ended December 31,									
·	2021		2020		2019				
'		thousands)							
\$	_	\$	956,650	\$	_				
	35,000		59,363		33,842				
\$	35,000	\$	1,016,013	\$	33,842				
	\$	2021 \$ 35,000	2021 (in \$ — \$ 35,000	2021 2020 (in thousands) \$ — \$ 956,650 35,000 59,363	2021 2020 (in thousands) \$ — \$ 956,650 \$ 35,000 59,363				

⁽¹⁾ These impairments related to actual and anticipated lease expirations, as well as actual and anticipated losses on acreage due to title defects, changes in development plans, and other inherent acreage risks. The balances in the unproved oil and gas properties line item on the accompanying balance sheets as of December 31, 2021, 2020, and 2019, are recorded at carrying value.

For the year ended December 31, 2020, the Company recorded impairment expense of \$56.7 million related to its South Texas proved oil and gas properties and related support facilities due to the decrease in commodity price forecasts at the end of the first quarter of 2020, specifically decreases in oil and NGL prices. The Company used a discount rate of 11 percent in its calculation of the present value of expected future cash flows based on the prevailing market-based weighted average cost of capital as of March 31, 2020. No proved property impairment expense was recorded during the years ended December 31, 2021, or 2019.

Please refer to Note 1 – Summary of Significant Accounting Policies for information on the Company's policies for determining fair value of its oil and gas producing properties and related impairment expense.

Long-Term Debt

The following table reflects the fair value of the Company's Senior Notes obligations measured using Level 1 inputs based on quoted secondary market trading prices. These notes were not presented at fair value on the accompanying balance sheets as of December 31, 2021, or 2020, as they were recorded at carrying value, net of any unamortized discounts and deferred financing costs. Please refer to *Note 5 – Long-Term Debt* for additional information.

				As of Dec	cemb	er 31,					
		20		2020							
	Princ	ipal Amount		Fair Value	Pr	incipal Amount		Fair Value			
				(in tho	usan	ds)					
1.50% Senior Secured Convertible Notes due 2021	\$	_	\$	_	\$	65,485	\$	61,449			
10.0% Senior Secured Notes due 2025	\$	446,675	\$	491,628	\$	446,675	\$	482,887			
6.125% Senior Notes due 2022	\$	_	\$	_	\$	212,403	\$	205,379			
5.0% Senior Notes due 2024	\$	104,769	\$	104,583	\$	277,034	\$	240,072			
5.625% Senior Notes due 2025	\$	349,118	\$	353,091	\$	349,118	\$	289,401			
6.75% Senior Notes due 2026	\$	419,235	\$	431,787	\$	419,235	\$	342,385			
6.625% Senior Notes due 2027	\$	416,791	\$	432,783	\$	416,791	\$	331,220			
6.5% Senior Notes due 2028	\$	400.000	\$	417.284	\$	_	\$	_			

As of December 31, 2020, the carrying value of the Company's revolving credit facility approximated its fair value, as the applicable interest rates are floating, based on prevailing market rates.

Warrants

As discussed in *Note 3 - Equity* and *Note 5 - Long-Term Debt*, on June 17, 2020, the Company issued Warrants to purchase up to an aggregate of approximately 5.9 million shares, or approximately five percent of its outstanding common stock, at an exercise price of \$0.01 per share. The fair value of the Warrants on the issuance date was determined using a stochastic Monte Carlo simulation using the GBM Model. The Company evaluated the Warrants under authoritative accounting guidance and determined that

they should be classified as equity instruments. Upon issuance, the Warrants were recorded in additional paid-in capital on the accompanying balance sheets at a fair value of \$21.5 million, with no recurring fair value measurement required. There have been no changes to the initial carrying amount of the Warrants since issuance.

Note 9 - Earnings Per Share

Basic net income or loss per common share is calculated by dividing net income or loss available to common stockholders by the basic weighted-average number of common shares outstanding for the respective period. Diluted net income or loss per common share is calculated by dividing net income or loss available to common stockholders by the diluted weighted-average number of common shares outstanding, which includes the effect of potentially dilutive securities.

For the years ended December 31, 2021, and 2020, potentially dilutive securities for this calculation consisted primarily of non-vested RSUs, contingent PSUs, and Warrants, all of which were measured using the treasury stock method. The Warrants became exercisable at the election of the holders on January 15, 2021, and as a result, they were included as potentially dilutive securities on an adjusted weighted-average basis for the portion of the year ended December 31, 2021, for which they were outstanding. The Warrants were not exercisable for the year ended December 31, 2020, and therefore had no dilutive impact. Please refer to *Note 3 - Equity* for additional detail regarding the terms of the Warrants.

For the year ended December 31, 2019, potentially dilutive securities for this calculation consisted primarily of non-vested RSUs, contingent PSUs, and shares into which the 2021 Senior Convertible Notes were convertible, all of which were measured using the treasury stock method. The 2021 Senior Convertible Notes did not become convertible into shares of common stock at any time prior to their maturity on July 1, 2021, and therefore had no dilutive impact at any point in time while they were outstanding. Please refer to *Note 5 – Long-Term Debt* for additional discussion.

PSUs represent the right to receive, upon settlement of the PSUs after the completion of thethree-year performance period, a number of shares of the Company's common stock that may range from zero to two times the number of PSUs granted on the award date. The number of potentially dilutive shares related to PSUs is based on the number of shares, if any, which would be issuable at the end of the respective reporting period, assuming that date was the end of the contingency period applicable to such PSUs. For additional discussion on PSUs, please refer to *Note 7 – Compensation Plans* under the heading *Performance Share Units*.

When the Company recognizes a net loss from continuing operations, all potentially dilutive shares are anti-dilutive and are consequently excluded from the calculation of diluted net loss per common share. The following table details the weighted-average number of anti-dilutive securities for the years presented:

	For the	Years Ended December	oer 31,
	2021	2020	2019
		(in thousands)	
Anti-dilutive	_	265	684

The following table sets forth the calculations of basic and diluted net income (loss) per common share:

	For the Years Ended December 31,									
		2021	2020		2019					
		(in thou	usand	s, except per sha	re da	ata)				
Net income (loss)	\$	36,229	\$	(764,614)	\$	(187,001)				
	-									
Basic weighted-average common shares outstanding		119,043		113,730		112,544				
Dilutive effect of non-vested RSUs and contingent PSUs		2,582		_		_				
Dilutive effect of Warrants		2,065		_		_				
Diluted weighted-average common shares outstanding		123,690		113,730		112,544				
	·									
Basic net income (loss) per common share	\$	0.30	\$	(6.72)	\$	(1.66)				
Diluted net income (loss) per common share	\$	0.29	\$	(6.72)	\$	(1.66)				

Note 10 - Derivative Financial Instruments

Summary of Oil, Gas, and NGL Derivative Contracts in Place

The Company regularly enters into commodity derivative contracts to mitigate a portion of its exposure to oil, gas, and NGL price volatility and location differentials, and the associated impact on cash flows. As of December 31, 2021, all contracts were entered into for other-than-trading purposes. The Company's commodity derivative contracts consist of swap and collar arrangements for oil, gas, and NGL production. In a typical commodity swap agreement, if the agreed upon published third-party index price ("index price") is lower than the swap fixed price, the Company receives the difference between the index price and the agreed upon swap fixed price. If the index price and the swap fixed price, the Company pays the difference. For collar arrangements, the Company receives the difference between an agreed upon index price and the floor price if the index price is below the floor price. The Company pays the difference between the agreed upon ceiling price and the index price if the index price is above the ceiling prices. No amounts are paid or received if the index price is between the floor and ceiling prices.

The Company has entered into fixed price oil and gas basis swaps in order to mitigate exposure to adverse pricing differentials between certain industry benchmark prices and the actual physical pricing points where the Company's production is sold. As of the filing of this report, the Company had basis swap contracts with fixed price differentials between:

- · NYMEX WTI and WTI Midland for a portion of its Midland Basin production with sales contracts that settle at WTI Midland prices;
- NYMEX WTI and Intercontinental Exchange Brent Crude ("ICE Brent") for a portion of its Midland Basin oil production with sales contracts that settle at ICE Brent
 prices;
- NYMEX WTI and Argus WTI Houston Magellan East Houston Terminal ("MEH") for a portion of its South Texas oil production with sales contracts that settle at Argus WTI Houston MEH ("WTI Houston MEH") prices;
- NYMEX Henry Hub ("HH") and Inside FERC Tennessee Texas, Zone 0 ("IF Tenn TX Z0") for a portion of its South Texas gas production with sales contracts that settle at IF Tenn TX Z0 prices; and
- · NYMEX HH and Inside FERC West Texas ("IF WAHA") for a portion of its South Texas gas production with sales contracts that settle at IF WAHA prices.

The Company has also entered into crude oil swap contracts to fix the differential in pricing between the NYMEX calendar month average and the physical crude oil delivery month ("Roll Differential") in which the Company pays the periodic variable Roll Differential and receives a weighted-average fixed price differential. The weighted-average fixed price differential represents the amount of net addition (reduction) to delivery month prices for the notional volumes covered by the swap contracts.

As of December 31, 2021, the Company had commodity derivative contracts outstanding through the fourth quarter of 2023 as summarized in the table below.

C---4----- D---!-----

	Contract Period									
	Quarter Quart		Second Quarter 2022	Third Quarter 2022			Fourth Quarter 2022		2023	
Oil Derivatives (volumes in MBbl and prices in \$ per Bbl):										
Swaps										
NYMEX WTI Volumes		2,009		1,953		1,938		1,923		1,190
Weighted-Average Contract Price	\$	44.81	\$	44.75	\$	44.63	\$	44.58	\$	45.20
Collars										
NYMEX WTI Volumes		896		894		868		584		858
Weighted-Average Floor Price	\$	53.54	\$	56.94	\$	61.88	\$	57.91	\$	60.00
Weighted-Average Ceiling Price	\$	63.73	\$	64.93	\$	66.54	\$	61.61	\$	73.09
Basis Swaps										
WTI Midland-NYMEX WTI Volumes		2,222		2,374		2,442		2,462		_
Weighted-Average Contract Price	\$	1.15	\$	1.15	\$	1.15	\$	1.15	\$	_
NYMEX WTI-ICE Brent Volumes		900		910		920		920		_
Weighted-Average Contract Price	\$	(7.78)	\$	(7.78)	\$	(7.78)	\$	(7.78)	\$	_

					Conf	tract Perio	d			
	(First Quarter 2022	Second Third Quarter Quarter 2022 2022			Fourth Quarter 2022		2023		
Basis Swaps (continued)										
WTI Houston MEH-NYMEX WTI Volumes		271		349		335		374		_
Weighted-Average Contract Price	\$	1.25	\$	1.25	\$	1.25	\$	1.25	\$	_
Roll Differential Swaps										
NYMEX WTI Volumes		2,907		2,841		2,782		2,748		1,832
Weighted-Average Contract Price	\$	0.11	\$	0.10	\$	0.11	\$	0.10	\$	0.39
Gas Derivatives (volumes in BBtu and prices in \$ per MMBtu):										
Swaps										
IF HSC Volumes		8,208		6,808		6,934		6,982		_
Weighted-Average Contract Price	\$	2.85	\$	2.34	\$	2.37	\$	2.47	\$	_
IF WAHA Volumes		4,856		3,079		3,085		3,067		_
Weighted-Average Contract Price	\$	2.63	\$	2.09	\$	2.19	\$	2.22	\$	_
IF Tenn TX Z0		513		_		_		_		_
Weighted-Average Contract Price	\$	3.22	\$	_	\$	_	\$	_	\$	_
Collars										
NYMEX HH Volumes		859		1,270		760		1,908		2,601
Weighted-Average Floor Price	\$	4.00	\$	3.00	\$	3.25	\$	3.50	\$	3.00
Weighted-Average Ceiling Price	\$	8.02	\$	4.48	\$	5.45	\$	4.44	\$	8.76
IF HSC Volumes										900
Weighted-Average Floor Price	\$	_	\$	_	\$	_	\$	_	\$	3.38
Weighted-Average Ceiling Price	\$	_	\$		\$	_	\$	_	\$	7.75
Basis Swaps										
IF Tenn TX Z0-NYMEX HH Volumes		859		1,270		760		_		_
Weighted-Average Contract Price	\$	0.12	\$	(0.14)	\$	(0.14)	\$	_	\$	_
IF WAHA-NYMEX HH		_	•	_	•	_	•	_	•	1,849
Weighted-Average Contract Price	\$	_	\$	_	\$	_	\$	_	\$	(0.48)
NGL Derivatives (volumes in MBbl and prices in \$ per Bbl):										
Swaps										
OPIS Propane Mont Belvieu Non-TET Volumes		351		116		55		58		_
Weighted-Average Contract Price	\$	28.67	\$	33.03	\$	29.44	\$	29.63	\$	_
Collars										
OPIS Propane Mont Belvieu Non-TET Volumes		180		253		164		173		_
Weighted-Average Floor Price	\$	28.68	\$	25.94	\$	24.09	\$	24.11	\$	_
Weighted-Average Ceiling Price	\$	38.25	\$	31.69	\$	27.84	\$	28.13	\$	

Commodity Derivative Contracts Entered Into Subsequent to December 31, 2021

Subsequent to December 31, 2021, and through the filing of this report, the Company entered into the following commodity derivative contracts:

Oil derivatives:

- NYMEX WTI fixed swap contracts for the second quarter of 2022 for a total of 0.5 MMBbl at a weighted-average contract price of \$83.91 per Bbl;
- NYMEX WTI collar contracts for the third and fourth quarters of 2022 for a total of 0.8 MMBbl at a weighted-average floor contract price of \$71.55 per Bbl and a weighted-average ceiling contract price of \$90.50 per Bbl;

Contract Baried

• WTI Midland-NYMEX WTI basis swap contract for 2023 for a total of 0.9 MMBbl at a weighted-average contract

price of \$0.60 per Bbl;

- WTI Houston MEH-NYMEX WTI basis swap contracts for 2023 for a total of 0.6 MMBbl at a weighted-average contract price of \$1.24 per Bbl; and
- NYMEX WTI Roll Differential swap contracts for 2022 and 2023 for a total of 3.6 MMBbl at a weighted-average contract price of \$0.68 per Bbl.

Gas derivatives:

- NYMEX HH fixed swap contracts for the second through fourth quarters of 2022 for a total of5,557 BBtu at a weighted-average contract price of \$4.07 per MMBtu;
- IF WAHA-NYMEX HH basis swap contracts for the second quarter of 2023 through the fourth quarter of 2025 for a total of36,608 BBtu at a weighted-average contract price of \$(0.85) per MMBtu;
- IF WAHA fixed swap contracts for the first quarter of 2023 for a total of 900 BBtu at a weighted-average contract price of \$3.98 per MMBtu; and
- NYMEX HH collar contracts for 2023 for a total of 8,975 BBtu at a weighted-average floor contract price of \$3.32 per MMBtu and a weighted-average ceiling contract price of \$4.76 per MMBtu.

NGL derivatives:

 OPIS Propane Mont Belvieu Non-TET swap contracts for the second through fourth quarters of 2022 for a total of 0.3 MMBbl at a weighted-average contract price of \$45.88 per Bbl.

Derivative Assets and Liabilities Fair Value

The Company's commodity derivatives are measured at fair value and are included in the accompanying balance sheets as derivative assets and liabilities, with the exception of derivative instruments that meet the "normal purchase normal sale" exclusion. The Company does not designate its commodity derivative contracts as hedging instruments. The fair value of the commodity derivative contracts at December 31, 2021, and 2020, was a net liability of \$320.9 million and \$168.2 million, respectively.

The following table details the fair value of commodity derivative contracts recorded in the accompanying balance sheets, by category:

	As of De	ecember 31, 2021	As of De	ecember 31, 2020						
		(in thousands)								
Derivative assets:										
Current assets	\$	24,095	\$	31,203						
Noncurrent assets		239		23,150						
Total derivative assets	\$	24,334	\$	54,353						
Derivative liabilities:										
Current liabilities	\$	319,506	\$	200,189						
Noncurrent liabilities		25,696		22,331						
Total derivative liabilities	\$	345,202	\$	222,520						

Offsetting of Derivative Assets and Liabilities

As of December 31, 2021, and 2020, all derivative instruments held by the Company were subject to master netting arrangements with various financial institutions. In general, the terms of the Company's agreements provide for offsetting of amounts payable or receivable between it and the counterparty, at the election of both parties, for transactions that settle on the same date and in the same currency. The Company's agreements also provide that in the event of an early termination, the counterparties have the right to offset amounts owed or owing under that and any other agreement with the same counterparty. The Company's accounting policy is to not offset these positions in its accompanying balance sheets.

The following table provides a reconciliation between the gross assets and liabilities reflected on the accompanying balance sheets and the potential effects of master netting arrangements on the fair value of the Company's commodity derivative contracts:

		Derivative A	s as of	Derivative Liabilities as of						
	De	cember 31, 2021	December 31, 2020			ecember 31, 2021	De	ecember 31, 2020		
	(in thousands)									
Gross amounts presented in the accompanying balance sheets	\$	24,334	\$	54,353	\$	(345,202)	\$	(222,520)		
Amounts not offset in the accompanying balance sheets		(22,862)		(53,598)		22,862		53,598		
Net amounts	\$	1,472	\$	755	\$	(322,340)	\$	(168,922)		

The Company recognizes all gains and losses from changes in commodity derivative fair values immediately in earnings rather than deferring such amounts in accumulated other comprehensive loss. The Company had no commodity derivative contracts designated as hedging instruments for the years ended December 31, 2021, 2020, and 2019. Please refer to *Note 8 – Fair Value Measurements* for more information regarding the Company's derivative instruments, including its valuation techniques.

The following table summarizes the commodity components of the derivative settlement (gain) loss, and the net derivative (gain) loss line items presented within the accompanying statements of cash flows and the accompanying statements of operations, respectively:

	 For the Years Ended December 31,					
	2021		2020		2019	
		(i	n thousands)			
Derivative settlement (gain) loss:						
Oil contracts	\$ 523,245	\$	(331,559)	\$	19,685	
Gas contracts	152,361		(11,898)		(23,008)	
NGL contracts	73,352		(7,804)		(35,899)	
Total derivative settlement (gain) loss:	\$ 748,958	\$	(351,261)	\$	(39,222)	
Net derivative (gain) loss:						
Oil contracts	\$ 650,959	\$	(205,180)	\$	172,055	
Gas contracts	172,248		30,038		(41,205)	
NGL contracts	 78,452		13,566		(33,311)	
Total net derivative (gain) loss:	\$ 901,659	\$	(161,576)	\$	97,539	

Credit Related Contingent Features

As of December 31, 2021, and through the filing of this report, all of the Company's derivative counterparties were members of the Company's Credit Agreement lender group. Under the Credit Agreement, the Company is required to provide mortgage liens on assets having a value equal to at least 85 percent of the total PV-9, as defined in the Credit Agreement, of the Company's proved oil and gas properties evaluated in the most recent reserve report. Collateral securing indebtedness under the Credit Agreement also secures the Company's derivative agreement obligations.

Note 11 - Pension Benefits

The Company has a non-contributory defined benefit pension plan covering employees who meet age and service requirements and who began employment with the Company prior to January 1, 2016 ("Qualified Pension Plan"). The Company also has a supplemental non-contributory pension plan covering certain management employees ("Nonqualified Pension Plan" and together with the Qualified Pension Plan, "Pension Plans"). The Company froze the Pension Plans to new participants, effective January 1, 2016. Employees participating in the Pension Plans prior to the plans being frozen will continue to earn benefits.

Obligations and Funded Status for the Pension Plans

The Company recognizes the funded status (i.e. the difference between the fair value of plan assets and the projected benefit obligation) of the Company's Pension Plans in the accompanying balance sheets as either an asset or a liability and recognizes a corresponding adjustment within the other comprehensive income (loss), net of tax, line item in the accompanying statements of

comprehensive income (loss). The projected benefit obligation is the actuarial present value of the benefits earned to date by plan participants based on employee service and compensation including the effect of assumed future salary increases. The accumulated benefit obligation uses the same factors as the projected benefit obligation, but excludes the effects of assumed future salary increases. The Company's measurement date for plan assets and obligations is December 31.

	For the Years Ended December 31,			
	2021			2020
	(in thousands)			,
Change in benefit obligation:				
Projected benefit obligation at beginning of year	\$	73,593	\$	70,843
Service cost		4,455		4,516
Interest cost		2,089		2,358
Actuarial loss		1,914		7,483
Benefits paid		(4,630)		(905)
Settlements		(1,661)		(10,702)
Projected benefit obligation at end of year		75,760		73,593
Change in plan assets:				
Fair value of plan assets at beginning of year		32,894		35,634
Actual return on plan assets		2,777		2,837
Employer contribution		6,561		6,030
Benefits paid		(4,630)		(905)
Settlements		(1,661)		(10,702)
Fair value of plan assets at end of year		35,941		32,894
Funded status at end of year	\$	(39,819)	\$	(40,699)

The Company's underfunded status for the Pension Plans as of December 31, 2021, and 2020, was \$9.8 million and \$40.7 million, respectively, and is recognized in the accompanying balance sheets within the other noncurrent liabilities line item. There are no plan assets in the Nonqualified Pension Plan.

Accumulated Benefit Obligation in Excess of Plan Assets for the Pension Plans

	As of December 31,				
	2021			2020	
	(in thousands)				
Projected benefit obligation	\$	75,760	\$	73,593	
Accumulated benefit obligation	\$	64,325	\$	63,934	
Less: fair value of plan assets		(35,941)		(32,894)	
Underfunded accumulated benefit obligation	\$	28,384	\$	31,040	

Pension expense is determined based upon the annual service cost of benefits (the actuarial cost of benefits earned during a period) and the interest cost on those liabilities, less the expected return on plan assets. The expected long-term rate of return on plan assets is applied to a calculated value of plan assets that recognizes changes in fair value over a five-year period. This practice is intended to reduce year-to-year volatility in pension expense, but it can have the effect of delaying recognition of differences between actual returns on assets and expected returns based on long-term rate of return assumptions. Amortization of the unrecognized net gain or loss resulting from actual experience different from that assumed and from changes in assumptions (excluding asset gains and losses not yet reflected in market-related value) is included as a component of net periodic benefit cost for the year. If, as of the beginning of the year, the unrecognized net gain or loss exceeds 10 percent of the projected benefit obligation and the market-related value of plan assets, then the amortization is the excess divided by the average remaining service period of participating employees expected to receive benefits under the plan.

The pre-tax amounts not yet recognized in net periodic pension costs, but rather recognized in the accumulated other comprehensive loss line item within the accompanying balance sheets as of December 31, 2021, and 2020, were as follows:

	As of December 31,				
	' <u>-</u>	2021		2020	
		(in tho	usand	ls)	
Unrecognized actuarial losses	\$	16,388	\$	17,328	
Unrecognized prior service costs		_		14	
Accumulated other comprehensive loss (pre-tax)	\$	16,388	\$	17,342	

The pension liability adjustments recognized in other comprehensive income (loss) during 2021, 2020, and 2019, were as follows:

	For the Years Ended December 31,					1,
		2021		2020		2019
			(in	thousands)		
Net actuarial gain (loss)	\$	(612)	\$	(6,381)	\$	377
Amortization of prior service cost		13		17		17
Amortization of net actuarial loss		1,240		950		958
Settlements		312		2,509		_
Total pension liability adjustment, pre-tax		953		(2,905)		1,352
Tax (expense) benefit		(204)		626		(291)
Total pension liability adjustment, net	\$	749	\$	(2,279)	\$	1,061

Components of Net Periodic Benefit Cost for the Pension Plans

	For the Years Ended December 31,					
	202	2021)		2019
			(in thous	ands)		
Components of net periodic benefit cost:						
Service cost	\$	4,455	\$	4,516	\$	5,582
Interest cost		2,089		2,358		2,791
Expected return on plan assets that reduces periodic pension benefit cost		(1,474)		(1,735)		(1,574)
Amortization of prior service cost		13		17		17
Amortization of net actuarial loss		1,240		950		958
Net periodic benefit cost		6,323		6,106		7,774
Settlements		312		2,509		_
Total net benefit cost	\$	6,635	\$	8,615	\$	7,774

Pension Plan Assumptions

The weighted-average assumptions used to measure the Company's projected benefit obligation are as follows:

	As of Dec	ember 31,
	2021	2020
Projected benefit obligation:		
Discount rate	3.1%	2.9%
Rate of compensation increase	3.6%	4.4%

The weighted-average assumptions used to measure the Company's net periodic benefit cost are as follows:

	For th	For the Years Ended December 31,				
	2021	2020	2019			
Net periodic benefit cost:						
Discount rate	2.9%	3.6%	4.4%			
Expected return on plan assets (1)	4.4%	5.3%	5.0%			
Rate of compensation increase	4.4%	4.5%	6.2%			

¹⁾ There is no assumed expected return on plan assets for the Nonqualified Pension Plan because there areno plan assets in the Nonqualified Pension Plan.

The Company's pension investment policy includes various guidelines and procedures designed to ensure that assets are prudently invested in a manner necessary to meet the future benefit obligation of the Pension Plans. The policy prohibits the direct investment of plan assets in the Company's securities. The Qualified Pension Plan's investment horizon is long-term and accordingly the target asset allocations encompass a strategic, long-term perspective of capital markets, expected risk and return behavior and perceived future economic conditions. The key investment principles of diversification, assessment of risk, and targeting the optimal expected returns for given levels of risk are applied.

The Qualified Pension Plan's investment portfolio contains a diversified blend of investments, which may reflect varying rates of return. The investments are further diversified within each asset classification. This portfolio diversification provides protection against a single security or class of securities having a disproportionate impact on aggregate investment performance. The actual asset allocations are reviewed and rebalanced on a periodic basis to maintain the target allocations.

The weighted-average asset allocation of the Qualified Pension Plan is as follows:

	Target	As of December 31,					
Asset Category	2022	2021	2020				
Equity securities	37.0 %	39.0 %	37.0 %				
Fixed income securities	38.0 %	27.9 %	24.9 %				
Other securities	25.0 %	33.1 %	38.1 %				
Total	100.0 %	100.0 %	100.0 %				

There is no asset allocation of the Nonqualified Pension Plan since there areno plan assets in the plan. The assumption of the expected long-term rate of return on plan assets of the Qualified Pension Plan is based upon the target asset allocation and is determined using forward-looking assumptions in the context of historical returns and volatilities for each asset class, as well as correlations among asset classes. The Company evaluates the expected rate of return on plan assets assumption on an annual basis.

Pension Plan Assets

The fair values of the Company's Qualified Pension Plan assets as of December 31, 2021, and 2020, utilizing the fair value hierarchy discussed in Note 8 - Fair Value Measurements are as follows:

				Fair Value Measurements Using:				ing:	
	Actual Asset Allocation (1)		Total	ī	Level 1 Inputs	Le	evel 2 Inputs	L	evel 3 Inputs
					(in thousands)				
As of December 31, 2021									
Equity securities:									
Domestic (2)	19.1 %	\$	6,860	\$	4,909	\$	1,951	\$	_
International (3)	19.9 %		7,138		7,138				
Total equity securities	39.0 %		13,998		12,047		1,951		_
Fixed income securities:									
Core fixed income (4)	18.8 %		6,770		6,770		_		_
Floating rate corporate loans (5)	9.1 %		3,272		3,272				_
Total fixed income securities	27.9 %		10,042		10,042		_		_
Other securities:									
Real estate (6)	5.1 %		1,833		_		_		1,833
Collective investment trusts (7)	1.4 %		499		_		499		_
Hedge fund (8)	26.6 %		9,569		5,207		_		4,362
Total other securities	33.1 %		11,901		5,207		499		6,195
Total investments	100.0 %	\$	35,941	\$	27,296	\$	2,450	\$	6,195
As of December 31, 2020									
Equity securities:									
Domestic (2)	18.7 %	\$	6,149	\$	4.165	\$	1.984	\$	_
International (3)	18.3 %	•	6,010	•	6,010	•	_	•	_
Total equity securities	37.0 %	_	12,159		10,175	_	1,984	_	_
Fixed income securities:			,	_			,	_	
Core fixed income (4)	16.6 %		5,447		5,447		_		_
Floating rate corporate loans (5)	8.3 %		2,755		2,755		_		_
Total fixed income securities	24.9 %		8,202	_	8,202		_	_	_
Other securities:		_	· · · · · ·	_	·	_		_	
Real estate (6)	5.7 %		1.870		_		_		1.870
Collective investment trusts (7)	4.6 %		1,498		_		1,498		_
Hedge fund (8)	27.8 %		9,165		5,299		,		3,866
Total other securities	38.1 %		12,533	_	5,299		1,498		5,736
Total investments	100.0 %	\$	32,894	\$	23,676	\$	3,482	\$	5,736
				<u> </u>		_		Ė	, , , , , , , , , , , , , , , , , , , ,

Percentages may not calculate due to rounding.

Level 1 equity securities consist of United States large and small capitalization companies, which are actively traded securities that can be sold on demand. Level 2 equity securities are investments in a collective investment fund that is valued at net asset value based on the value of the underlying investments and total units outstanding on a daily basis. The objective of these funds is to approximate the S&P 500 by investing in one or more collective investment funds.

International equity securities consist of a well-diversified portfolio of holdings of mostly large issuers organized in developed countries with liquid markets, commingled

with investments in equity securities of issuers located in emerging markets that are believed to have strong sustainable financial productivity at attractive valuations.

The objective of core fixed income funds is to achieve value added from sector or issue selection by constructing a portfolio to approximate the investment results of the Barclay's Capital Aggregate Bond Index with a modest amount of variability in duration around the index.

- (5) Investments consist of floating rate bank loans. The interest rates on these loans are typically reset on a periodic basis to account for changes in the level of interest rates.
- (6) The investment objective of direct real estate is to provide current income with the potential for long-term capital appreciation. Ownership in real estate entails a long-term time horizon, periodic valuations, and potentially low liquidity.
- (7) Collective investment trusts invest in short-term investments and are valued at the net asset value of the collective investment trust. The net asset value, as provided by the trustee, is used as a practical expedient to estimate fair value. The net asset value is based on the fair value of the underlying investments held by the fund less its liabilities.
- (8) The hedge fund portfolio includes investments in actively traded global mutual funds that focus on alternative investments and a hedge fund of funds that invests both long and short using a variety of investment strategies.

Included below is a summary of the changes in Level 3 plan assets (in thousands):

Balance at January 1, 2020	\$ 5,748
Purchases	_
Realized gain on assets	526
Unrealized gain on assets	41
Disposition	 (579)
Balance at December 31, 2020	\$ 5,736
Purchases	250
Realized gain on assets	132
Unrealized gain on assets	298
Disposition	(221)
Balance at December 31, 2021	\$ 6,195

Contributions

The Company contributed \$6.6 million, \$6.0 million, and \$7.2 million to the Pension Plans for the years ended December 31, 2021, 2020, and 2019, respectively. The Company expects to make a \$6.0 million contribution to the Pension Plans in 2022.

Benefit Payments

The Pension Plans made actual benefit payments of \$5.3 million, \$11.6 million, and \$5.7 million for the years ended December 31, 2021, 2020, and 2019, respectively. Expected benefit payments over the next 10 years are as follows:

For the Years Ending December 31,		Amount			
	(in t	housands)			
2022	\$	4,200			
2023	\$	5,066			
2024	\$	4,404			
2025	\$	4,879			
2026	\$	6,834			
2027 through 2031	\$	27,197			

Note 12 - Leases

As of December 31, 2021, and 2020, the Company had operating leases for asset classes that include office space, office equipment, drilling rigs, midstream agreements, vehicles, and equipment rentals used in field operations. For operating leases recorded on the accompanying balance sheets, remaining lease terms range from less than one year to approximately 11 years. Certain leases contain optional extension periods that allow for terms to be extended for up to an additional 10 years, however in order to maintain financial and operational flexibility, there are no available options to extend that the Company is reasonably certain it will exercise. An early termination option exists for certain leases, some of which allow the Company to terminate a lease within one year, however, there are no leases in which material early termination options are reasonably certain to be exercised by the Company. As of December 31, 2021, and 2020, the Company did not have any agreements in place that were classified as finance leases under Topic 842. As of December 31, 2021, and through the filing of this report, the Company has no material lease arrangements which are scheduled to commence in the future. Please refer to *Note 1 – Summary of Significant Accounting Policies* additional information on the Company's policies for lease determination and classification.

The following table reflects the components of the Company's total costs, whether capitalized or expensed, related to operating leases, including short-term leases, and variable lease payments made for leases with initial lease terms greater than 12 months, for the years ended December 31, 2021, and 2020. This total does not reflect amounts that may be reimbursed by other third parties in the normal course of business, such as non-operating working interest owners.

	 For the Years Ended December 31,						
	 2021		2020				
	 (in thousands)						
Operating lease cost	\$ 12,825	\$	17,980				
Short-term lease cost (1)	145,052		143,892				
Variable lease cost (2)	48,931		70,858				
Total lease cost	\$ 206,808	\$	232,730				

⁽¹⁾ Costs associated with short-term lease agreements relate primarily to operational activities where underlying lease terms are less than one year. This amount includes drilling and completion activities and field equipment rentals, most of which are contracted for 12 months or less. It is expected that this amount will fluctuate primarily with the number of drilling rigs and completion crews the Company is operating under short-term agreements.

Cash paid for amounts included in the measurement of lease liabilities for the years ended December 31, 2021, and 2020, were as follows:

	For the Years Ended December 31,					
		2021		2020		
		(in tho	usands)		
Operating cash flows from operating leases	\$	11,286	\$		12,046	
Investing cash flows from operating leases	\$	2,316	\$		7,313	

Maturities for the Company's operating lease liabilities included on the accompanying balance sheets as of December 31, 2021, were as follows:

	As c	of December 31, 2021
		(in thousands)
2022	\$	7,123
2023		4,601
2024		3,330
2025		3,308
2026		2,381
Thereafter		10,965
Total Lease payments	\$	31,708
Less: Imputed interest (1)		(5,752)
Total	\$	25,956

⁽¹⁾ The weighted-average discount rate used to determine the operating lease liability as of December 31, 2021, was 5.4 percent.

Variable lease payments include additional payments made that were not included in the initial measurement of the ROU asset and corresponding liability for lease agreements with terms longer than 12 months. Variable lease payments relate to the actual volumes transported under certain midstream agreements, actual usage associated with drilling rigs, completion crews, and vehicles, and variable utility costs associated with the Company's leased office space. Fluctuations in variable lease payments are driven by actual volumes delivered and the number of drilling rigs and completion crews operating under long-term agreements.

The following table presents supplemental accompanying balance sheet information for operating leases as of December 31, 2021, and 2020:

		As of December 31,			
		2021		2020	
	(in the	ousands, except dis	count rat	e and lease term)	
Balance sheet classifications of operating leases:					
Other noncurrent assets	\$	19,026	\$	21,701	
Other current liabilities	\$	6,516	\$	11,659	
Other noncurrent liabilities	\$	19,440	\$	11,898	
ROU assets obtained in exchange for operating lease liabilities	\$	13,018	\$	745	
Weighted-average discount rate		5.4%		7.0%	
Weighted-average remaining lease term (in years)		7		3	

Note 13 – Accounts Receivable and Accounts Payable and Accrued Expenses

Accounts receivable are comprised of the following accruals:

	As of December 31,						
	2	2021		2020			
	(in thousands)						
Oil, gas, and NGL production revenue	\$	215,630	\$	108,928			
Amounts due from joint interest owners		23,782		31,514			
State severance tax refunds		1,416		2,301			
Derivative settlements		_		16,348			
Other		6,373		3,364			
Total accounts receivable	\$	247,201	\$	162,455			

Accounts payable and accrued expenses are comprised of the following accruals:

	As of December 31,				
		2021		2020	
		(in thou	ısands)		
Drilling and lease operating cost accruals	\$	71,012	\$	65,365	
Trade accounts payable		25,072		63,006	
Revenue and severance tax payable		254,422		105,233	
Property taxes		20,250		20,584	
Compensation		47,037		30,907	
Derivative settlements		57,186		1,146	
Interest		60,273		52,802	
Other		28,054		32,627	
Total accounts payable and accrued expenses	\$	563,306	\$	371,670	

Note 14 – Asset Retirement Obligations

Please refer to Asset Retirement Obligations in Note 1 – Summary of Significant Accounting Policies or a discussion of the initial and subsequent measurements of asset retirement obligation liabilities and the significant assumptions used in the estimates.

The following is a reconciliation of the Company's total asset retirement obligation liability as of December 31, 2021, and 2020:

	As of December 31,					
		2021		2020		
		(in tho	usands)			
Beginning asset retirement obligations	\$	85,325	\$	86,846		
Liabilities incurred (1)		1,715		1,018		
Liabilities settled (2)		(1,948)		(1,404)		
Accretion expense		4,159		4,034		
Revision to estimated cash flows		12,173		(5,169)		
Ending asset retirement obligations (3)	\$	101,424	\$	85,325		

Reflects liabilities incurred through drilling activities and acquisitions of drilled wells.

Note 15 - Suspended Well Costs

The following table reflects the net changes in capitalized exploratory well costs during 2021, 2020, and 2019. The table does not include amounts that were capitalized and either subsequently expensed or reclassified to producing well costs in the same year:

	For the Years Ended December 31,					31,
		2021		2020		2019
			(in t	housands)		
Beginning balance	\$	5,698	\$	11,925	\$	11,197
Additions to capitalized exploratory well costs pending the determination of proved reserves		15,576		3,346		11,925
Divestitures		_		_		_
Reclassifications based on the determination of proved reserves		(5,698)		(9,573)		(11,197)
Capitalized exploratory well costs charged to expense		_		_		_
Ending balance	\$	15,576	\$	5,698	\$	11,925

As of December 31, 2021, there wereno exploratory well costs that were capitalized for more than one year.

Note 16 - Acquisitions, Divestitures, and Assets Held for Sale

During the years ended December 31, 2021, 2020, and 2019, the Company completed non-monetary acreage trades of primarily undeveloped properties located in Howard, Martin, Midland, and Upton Counties, Texas, with \$4.7 million, \$6.5 million, and \$73.4 million, respectively, of carrying value attributed to the properties transferred by the Company. These trades were recorded at carryover basis with no gain or loss recognized.

⁽²⁾ Reflects liabilities settled through plugging and abandonment activities and divestitures of properties.

⁽³⁾ Balances as of December 31, 2021, and 2020, included \$4.1 million and \$2.0 million, respectively, related to the Company's current asset retirement obligation liability, which is recorded in the accounts payable and accrued expenses line item on the accompanying balance sheets.

Supplemental Oil and Gas Information (unaudited)

Costs Incurred

Costs incurred in oil and gas property acquisition, exploration, and development activities, whether capitalized or expensed, are summarized as follows:

	For the Years Ended December 31,						
		2021		2020		2019	
				(in thousands)			
Development costs (1)	\$	583,527	\$	490,935	\$	913,959	
Exploration costs		125,415		77,911		114,957	
Acquisitions							
Proved properties		71		5,579		(310)	
Unproved properties (2)		9,036		10,854		11,633	
Total, including asset retirement obligations (3)(4)	\$	718,049	\$	585,279	\$	1,040,239	

⁽¹⁾ Includes facility costs of \$18.2 million, \$27.2 million, and \$28.3 million for the years ended December 31, 2021, 2020, and 2019, respectively.

Oil and Gas Reserve Quantities

The reserve estimates presented below were made in accordance with GAAP requirements for disclosures about oil and gas producing activities and SEC rules for oil and gas reporting of reserve estimation and disclosure.

Proved reserves are the estimated quantities of oil, gas, and NGLs which, by analysis of geoscience and engineering data, can be estimated with reasonable certainty to be economically producible from a given date forward, from known reservoirs, and under existing economic conditions, operating methods, and government regulations prior to the time at which contracts providing the right to operate expire, unless evidence indicates that renewal is reasonably certain, regardless of whether deterministic or probabilistic methods are used for the estimation. Existing economic conditions include prices and costs at which economic producibility from a reservoir is to be determined, and the price to be used is the average price during the 12-month period prior to the ending date of the period covered by the report, determined as an unweighted arithmetic average of the first-day-of-the-month price for each month within such period, unless prices are defined by contractual arrangements, excluding escalations based upon future conditions. All of the Company's estimated proved reserves are located in the United States.

The table below presents a summary of changes in the Company's estimated proved reserves for each of the years in the three-year period ended December 31, 2021. The Company engaged Ryder Scott to audit internal engineering estimates for at least 80 percent of the Company's total calculated proved reserve PV-10 for each year presented. The Company emphasizes that reserve estimates are inherently imprecise and that estimates of new discoveries and undeveloped locations are more imprecise than estimates of established producing oil and gas properties. Accordingly, these estimates are expected to change as future information becomes available.

⁽²⁾ Includes amounts related to leasing activity and acquiring surface rights outside of acquisitions of proved and unproved properties totaling \$5.8 million, \$8.6 million, and \$8.7 million for the years ended December 31, 2021, 2020, and 2019, respectively.

⁽³⁾ Includes amounts relating to estimated asset retirement obligations of \$12.8 million, \$(4.7) million, and \$(9.9) million for the years ended December 31, 2021, 2020, and 2019, respectively.

⁽⁴⁾ Includes capitalized interest of \$15.0 million, \$15.8 million, and \$18.5 million for the years ended December 31, 2021, 2020, and 2019, respectively.

For the Years Ended December 31,

		2021 (1)			2020 (2)			2019 ⁽³⁾	
	Oil	Gas	NGLs	Oil	Gas	NGLs	Oil	Gas	NGLs
	(MMBbl)	(Bcf)	(MMBbl)	(MMBbl)	(Bcf)	(MMBbl)	(MMBbl)	(Bcf)	(MMBbl)
Total proved reserves:									
Beginning of year	172.7	1,052.0	56.6	184.1	1,223.2	74.0	175.7	1,321.8	107.4
Revisions of previous estimate	(4.7)	11.8	2.7	(28.2)	(246.6)	(24.7)	(19.2)	(212.5)	(40.0)
Discoveries and extensions	19.3	141.4	21.9	19.6	96.5	11.5	5.4	28.8	2.9
Infill reserves in an existing proved field	40.4	147.1	9.5	20.5	91.1	3.0	41.8	190.2	11.8
Sales of reserves	(0.3)	(0.5)	(0.1)	(0.5)	(8.9)	(1.1)	(0.2)	(0.7)	_
Purchases of minerals in place	0.1	0.1	_	0.2	0.6	_	2.5	5.4	_
Production	(27.9)	(108.4)	(5.4)	(23.0)	(103.9)	(6.1)	(21.9)	(109.8)	(8.1)
End of year	199.5	1,243.5	85.2	172.7	1,052.0	56.6	184.1	1,223.2	74.0
Proved developed reserves:									
Beginning of year	89.8	643.9	32.1	85.0	712.1	43.4	68.2	699.1	60.1
End of year	110.7	833.0	50.7	89.8	643.9	32.1	85.0	712.1	43.4
Proved undeveloped reserves:									
Beginning of year	82.9	408.1	24.4	99.1	511.1	30.6	107.6	622.7	47.2
End of year	88.8	410.4	34.5	82.9	408.1	24.4	99.1	511.1	30.6

Note: Amounts may not calculate due to rounding.

- (1) For the year ended December 31, 2021, the Company added 139.1 MMBOE through extensions and infill as a result of continued success in and further development of the Company's Austin Chalk and Midland Basin assets. The Company also added 40.6 MMBOE of estimated proved reserves through positive price and performance revisions, primarily driven by improved commodity prices during 2021. These additions were offset by production of 51.4 MMBOE and the removal of 40.6 MMBOE of estimated proved undeveloped reserves reclassified to unproved reserves categories as a result of revising certain aspects of our future development plans. Please refer to Areas of Operation in Part I, Items 1 and 2 of this report, and to Oil and Gas Reserve Quantities in Critical Accounting Policies and Estimates in Part II, Item 7 of this report for additional information.
- (2) For the year ended December 31, 2020, the Company added 85.8 MMBOE from its drilling program and through further development plan optimization, and had net downward revisions of 94.0 MMBOE, which were primarily driven by the removal of certain longer term estimated proved undeveloped reserves and declining commodity prices during 2020.
- (3) For the year ended December 31, 2019, the Company added 98.4 MMBOE from its drilling program and through further development plan optimization. These additions were offset by net downward revisions of 94.7 MMBOE, which were primarily driven by declining commodity prices during 2019.

Standardized Measure of Discounted Future Net Cash Flows

The Company computes a standardized measure of discounted future net cash flows and changes therein relating to estimated proved reserves in accordance with authoritative accounting guidance. Future cash inflows and production and development costs are determined by applying prices and costs, including transportation, quality, and basis differentials, to the year end estimated future reserve quantities. Each property the Company operates is also charged with field-level overhead in the estimated reserve calculation. Estimated future income taxes are computed using the current statutory income tax rates, including consideration for estimated future statutory depletion. The resulting future net cash flows are reduced to present value amounts by applying a 10 percent annual discount factor.

Future operating costs are determined based on estimates of expenditures to be incurred in developing and producing the estimated proved reserves in place at the end of the period using year end costs and assuming continuation of existing economic conditions, plus Company overhead incurred by the central administrative office attributable to operating activities.

The assumptions used to compute the standardized measure of discounted future net cash flows are those prescribed by the FASB and the SEC. These assumptions do not necessarily reflect the Company's expectations of actual revenues to be derived from those reserves, nor their present value amount. The limitations inherent in the reserve quantity estimation process, as discussed previously, are equally applicable to the standardized measure of discounted future net cash flows computations since these reserve

quantity estimates are the basis for the valuation process. The following prices as adjusted for transportation, quality, and basis differentials were used in the calculation of the standardized measure of discounted future net cash flows:

	For the Years Ended December 31,							
	2021			2020	2019			
Oil (per Bbl)	\$	66.21	\$	37.63	\$	53.68		
Gas (per Mcf)	\$	4.28	\$	1.81	\$	2.49		
NGLs (per Bbl)	\$	29.31	\$	14.64	\$	18.88		

The following summary sets forth the Company's future net cash flows relating to proved oil, gas, and NGL reserves based on the standardized measure of discounted future net cash flows:

	As of December 31,				
	2021		2020		2019
		(i	in thousands)		
Future cash inflows	\$ 21,027,406	\$	9,227,390	\$	14,327,131
Future production costs	(5,498,098)		(3,429,288)		(4,579,119)
Future development costs	(1,591,550)		(1,259,395)		(2,108,859)
Future income taxes	 (2,130,280)		_		(579,815)
Future net cash flows	 11,807,478		4,538,707		7,059,338
10 percent annual discount	(4,844,871)		(1,856,250)		(2,955,340)
Standardized measure of discounted future net cash flows	\$ 6,962,607	\$	2,682,457	\$	4,103,998

The principal sources of changes in the standardized measure of discounted future net cash flows were:

	For the Years Ended December 31,					
		2021		2020		2019
			(i	n thousands)		
Standardized measure of discounted future net cash flows, beginning of year	\$	2,682,457	\$	4,103,998	\$	4,654,383
Sales of oil, gas, and NGLs produced, net of production costs		(2,092,499)		(734,971)		(1,085,041)
Net changes in prices and production costs		5,242,783		(2,251,636)		(1,539,042)
Extensions, discoveries and other including infill reserves in an existing proved field, net of related costs		1,953,633		482,717		887,254
Sales of reserves in place		(4,361)		(10,755)		(2,788)
Purchase of reserves in place		1,565		2,120		57,519
Previously estimated development costs incurred during the period		426,120		431,926		736,770
Changes in estimated future development costs		(25,355)		215,460		132,825
Revisions of previous quantity estimates		(154,879)		(172,197)		(398,409)
Accretion of discount		268,246		436,284		510,427
Net change in income taxes		(1,196,013)		258,844		191,040
Changes in timing and other		(139,090)		(79,333)		(40,940)
Standardized measure of discounted future net cash flows, end of year	\$	6,962,607	\$	2,682,457	\$	4,103,998

ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

ITEM 9A. CONTROLS AND PROCEDURES

Evaluation of Disclosure Controls and Procedures

We maintain a system of disclosure controls and procedures that are designed to reasonably ensure that information required to be disclosed in our SEC reports is recorded, processed, summarized, and reported within the time periods specified in the SEC's rules and forms, and to reasonably ensure that such information is accumulated and communicated to our management, including our Chief Executive Officer (Principal Executive Officer) and our Chief Financial Officer (Principal Financial Officer), as appropriate, to allow for timely decisions regarding required disclosure.

Our management, including our Chief Executive Officer and our Chief Financial Officer, does not expect that our disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) of the Exchange Act) ("Disclosure Controls") will prevent all errors and all fraud. A control system, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the control system are met. Further, the design of a control system must reflect the fact that there are resource constraints, and the benefits of controls must be considered relative to their costs. Because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that all control issues and instances of fraud, if any, within our company have been detected. These inherent limitations include the realities that judgments in decision-making can be faulty, and that breakdowns can occur because of simple error or mistake. Additionally, controls can be circumvented by the individual acts of some persons, by collusion of two or more people, or by management override of the control. The design of any system of controls also is based in part upon certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions. Because of the inherent limitations in a cost-effective control system, misstatements due to error or fraud may occur and not be detected. We monitor our Disclosure Controls and make modifications as necessary; our intent in this regard is that the Disclosure Controls will be modified as systems change and conditions warrant.

An evaluation of the effectiveness of the design and operation of our Disclosure Controls was performed as of the end of the period covered by this report. This evaluation was performed under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer. Based upon that evaluation, our Chief Executive Officer and Chief Financial Officer concluded that our Disclosure Controls are effective at a reasonable assurance level.

Changes in Internal Control Over Financial Reporting

There have been no changes during the fourth quarter of 2021 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

Management's Report on Internal Control over Financial Reporting

Management of the Company is responsible for establishing and maintaining adequate internal control over financial reporting as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act. The Company's internal control over financial reporting is designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. The Company's internal control over financial reporting includes those policies and procedures that:

- (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the Company;
- (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the Company are being made only in accordance with authorizations of management and directors of the Company; and
- (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the Company's assets that have a material effect on the financial statements.

Because of the inherent limitations, internal controls over financial reporting may not prevent or detect misstatements. Even those systems determined to be effective can provide only reasonable assurance with respect to financial statement preparation and presentation. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of the changes in conditions, or that the degree of compliance with the policies and procedures may deteriorate.

Management assessed the effectiveness of the Company's internal control over financial reporting as of December 31, 2021. In making this assessment, management used the criteria set forth by the Committee of Sponsoring Organizations of the Treadway Commission in *Internal Control-Integrated Framework* (2013 framework).

Based on management's assessment and those criteria, management believes that the Company maintained effective internal control over financial reporting as of December 31, 2021.

The Company's independent registered public accounting firm has issued an attestation report on the Company's internal control over financial reporting. That report immediately follows this report.

Report of Independent Registered Public Accounting Firm

To the Stockholders and the Board of Directors of SM Energy Company and subsidiaries

Opinion on Internal Control Over Financial Reporting

We have audited SM Energy Company and subsidiaries' internal control over financial reporting as of December 31, 2021, based on criteria established in Internal Control — Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) (the COSO criteria). In our opinion, SM Energy Company and subsidiaries (the Company) maintained, in all material respects, effective internal control over financial reporting as of December 31, 2021, based on the COSO criteria.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated balance sheets of the Company as of December 31, 2021 and 2020, the related consolidated statements of operations, comprehensive income (loss), changes in stockholders' equity and cash flows for each of the three years in the period ended December 31, 2021, and the related notes and our report dated February 25, 2022, expressed an unqualified opinion thereon.

Basis for Opinion

The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting included in the accompanying Management's Report on Internal Control over Financial Reporting. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. We are a public accounting firm registered with the 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. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects.

Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

Definition and Limitations of Internal Control Over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Ernst & Young LLP

Denver, Colorado February 25, 2022

ITEM 9B. OTHER INFORMATION

None.

ITEM 9C. DISCLOSURE REGARDING FOREIGN JURISDICTIONS THAT PREVENT INSPECTIONS

These disclosures are not applicable to the Company.

PART III

ITEM 10. DIRECTORS, EXECUTIVE OFFICERS, AND CORPORATE GOVERNANCE

The information required by this Item concerning the Company's Directors, Executive Officers, and corporate governance is incorporated by reference to the information provided under the captions "Proposal 1 - Election of Directors," "Information about our Executive Officers," and "Corporate Governance" in the Company's Definitive Proxy Statement on Schedule 14A for the 2022 annual meeting of stockholders, to be filed within 120 days from December 31, 2021.

The information required by this Item concerning compliance with Section 16(a) of the Exchange Act is incorporated by reference to the information provided under the caption "Security Ownership of Certain Beneficial Owners and Management" in the Company's Definitive Proxy Statement on Schedule 14A for the 2022 annual meeting of stockholders, to be filed within 120 days from December 31, 2021.

ITEM 11. EXECUTIVE COMPENSATION

The information required by this Item is incorporated by reference to the information provided under the captions "Executive Compensation Tables" and "Director Compensation" in the Company's Definitive Proxy Statement on Schedule 14A for the 2022 annual meeting of stockholders, to be filed within 120 days from December 31, 2021.

ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

The information required by this Item concerning security ownership of certain beneficial owners and management is incorporated by reference to the information provided under the caption "Security Ownership of Certain Beneficial Owners and Management" in the Company's Definitive Proxy Statement on Schedule 14A for the 2022 annual meeting of stockholders, to be filed within 120 days from December 31, 2021.

Securities Authorized for Issuance Under Equity Compensation Plans. The Company has equity compensation plans under which options and shares of the Company's common stock are authorized for grant or issuance as compensation to eligible employees, consultants, and members of the Board of Directors. The Company's stockholders have approved these plans. Please refer to Note 7 – Compensation Plans in Part II, Item 8 of this report for further information about the material terms of the Company's equity

compensation plans. The following table is a summary of the shares of common stock authorized for issuance under equity compensation plans as of December 31, 2021:

	(a)	(b)	(c)
Plan category	Number of securities to be issued upon exercise of outstanding options, warrants, and rights	Weighted-average exercise price of outstanding options, warrants, and rights	Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a))
Equity compensation plans approved by security holders:			
Equity Incentive Compensation Plan (1)			
Restricted stock units (2)	1,850,031	N/A	
Performance share units (2)(3)	505,760	N/A	
Total for Equity Incentive Compensation Plan	2,355,791	\$	4,864,999
Employee Stock Purchase Plan (4)	_	_	3,538,892
Equity compensation plans not approved by security holders			
Total for all plans	2,355,791	\$	8,403,891

⁽¹⁾ In May 2006, the stockholders approved the Equity Plan to authorize the issuance of restricted stock, restricted stock units, non-qualified stock options, incentive stock options, stock appreciation rights, performance shares, performance units, and stock-based awards to key employees, consultants, and members of the Board of Directors of the Company or any affiliate of the Company. The Company's Board of Directors approved amendments to the Equity Plan in 2009, 2010, 2013, 2016, and 2018 and each amended plan was approved by stockholders at the respective annual stockholders' meetings. The number of shares of the Company's common stock underlying awards granted in 2021, 2020, and 2019 under the Equity Plan were 726,562, 1,726,445, and 1,868,776, respectively.

(3) The number of shares of common stock assumes a multiplier of one. The actual final number of shares of common stock to be issued will range from zero to two times the number of PSUs awarded depending on the three-year performance multiplier.

ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE

The information required by this Item is incorporated by reference to the information provided under the captions "Certain Relationships and Related Transactions" and "Corporate Governance" in the Company's Definitive Proxy Statement on Schedule 14A for the 2022 annual meeting of stockholders, to be filed within 120 days from December 31, 2021.

ITEM 14. PRINCIPAL ACCOUNTANT FEES AND SERVICES

The information required by this Item is incorporated by reference to the information provided under the captions "Independent Registered Public Accounting Firm" and "Audit Committee Pre-approval Policy and Procedures" in the Company's Definitive Proxy Statement on Schedule 14A for the 2022 annual meeting of stockholders, to be filed within 120 days from December 31, 2021.

⁽²⁾ RSUs and PSUs do not have exercise prices associated with them, but rather a weighted-average per unit fair value, which is presented in order to provide additional information regarding the potential dilutive effect of the awards. The weighted-average grant date per unit fair value for the outstanding RSUs and PSUs was \$13.83 and \$12.80, respectively. Please refer to *Note 7 – Compensation Plans* in Part II, Item 8 of this report for additional discussion.

⁽⁴⁾ Under the ESPP, eligible employees may purchase shares of the Company's common stock through payroll deductions of up to 15 percent of their eligible compensation. The purchase price of the common stock is 85 percent of the lower of the trading price of the common stock on either the first or last day of the six-month offering period. The ESPP is intended to qualify under Section 423 of the IRC. The number of shares of the Company's common stock issued in 2021, 2020, and 2019 under the ESPP were 313,773, 464,757, and 314,868, respectively.

PART IV

ITEM 15. EXHIBITS AND CONSOLIDATED FINANCIAL STATEMENT SCHEDULES

(a)(1) and (a)(2) Consolidated Financial Statements and Financial Statement Schedules:

Report of Independent Registered Public Accounting Firm (PCAOB ID42)	<u>58</u>
Consolidated Balance Sheets	<u>60</u>
Consolidated Statements of Operations	<u>6</u> ′
Consolidated Statements of Comprehensive Income (Loss)	<u>62</u>
Consolidated Statements of Stockholders' Equity	<u>63</u>
Consolidated Statements of Cash Flows	<u>6</u> 4
Notes to Consolidated Financial Statements	<u>65</u>

All schedules are omitted because the required information is not applicable or is not present in amounts sufficient to require submission of the schedule or because the information required is included in the Consolidated Financial Statements and Notes thereto.

(b) Exhibits. The following exhibits are filed or furnished with or incorporated by reference into this report on Form 10-K:

Exhibit <u>Number</u>	<u>Description</u>
3.1	Restated Certificate of Incorporation of SM Energy Company, as amended through June 1, 2010 (filed as Exhibit 3.1 to the registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2010, and incorporated herein by reference)
<u>3.2</u>	Amended and Restated By-Laws of SM Energy Company, effective as of February 21, 2017 (filed as Exhibit 3.2 to the registrant's Annual Report on Form 10-K for the year ended December 31, 2016, and incorporated herein by reference)
4.1	Indenture related to the 5.0% Senior Notes due 2024, dated May 20, 2013, by and between SM Energy Company, as issuer, and U.S. Bank National Association, as Trustee (filed as Exhibit 4.1 to the registrant's Current Report on Form 8-K filed on May 20, 2013, and incorporated herein by reference)
4.2	Indenture related to the 6.125% Senior Notes due 2022, dated November 17, 2014, by and between SM Energy Company, as issuer, and U.S. Bank National Association, as Trustee (filed as Exhibit 4.1 to the registrant's Current Report on Form 8-K filed on November 18, 2014, and incorporated herein by reference)
4.3	Indenture related to senior debt securities of SM Energy Company by and between SM Energy Company and U.S. Bank National Association, as trustee (filed as Exhibit 4.1 to the registrant's Registration Statement on Form S-3 filed on May 7, 2015 (Registration No. 333-203936) and incorporated herein by reference)
<u>4.4</u>	2025 Notes Supplemental Indenture (filed as Exhibit 4.2 to the registrant's Current Report on Form 8-K filed on May 21, 2015, and incorporated herein by reference)
<u>4.5</u>	Base Indenture, dated as of May 21, 2015, by and between SM Energy Company and U.S. Bank National Association, as trustee (filed as Exhibit 4.1 to the registrant's Current Report on Form 8-K filed on August 12, 2016, and incorporated herein by reference)
4.6	Second Supplemental Indenture, dated August 12, 2016, by and between SM Energy Company and U.S. Bank, National Association, as trustee (filed as Exhibit 4.2 to the registrant's Current Report on Form 8-K filed on August 12, 2016, and incorporated herein by reference)
4.7	Third Supplemental Indenture, dated September 12, 2016 by and between SM Energy Company and U.S. Bank National Association, as trustee (filed as Exhibit 4.2 to the registrant's Current Report on Form 8-K filed on September 12, 2016, and incorporated herein by reference)
4.8	Fourth Supplemental Indenture, dated as of August 20, 2018, by and between SM Energy Company and U.S. Bank National Association, as trustee (filed as Exhibit 4.2 to the registrant's Current Report on Form 8-K filed on August 20, 2018, and incorporated herein by reference)
<u>4.9</u>	Third Supplemental Indenture, dated as of April 29, 2020, to the Indenture, dated as of May 21, 2015, between the Company and U.S. Bank National Association, as trustee, as supplemented and amended by the Second Supplemental Indenture, dated as of August 12, 2016 governing the Company's outstanding 1,50% Senior Convertible Notes due 2021 (filed as Exhibit 4.1 to the registrant's Current Report on Form 8-K filed on April 29, 2020, and incorporated herein by reference)
<u>4.10</u>	Indenture, dated as of June 17, 2020, between SM Energy Company and UMB Bank, N.A., as trustee, governing the Company's outstanding 10.0% Senior Secured Notes due 2025 (filed as Exhibit 4.1 to the registrant's Current Report on Form 8-K filed on June 17, 2020, and incorporated herein by reference)

- 4.11 Warrant Agreement dated as of June 17, 2020, among SM Energy Company, Computershare Inc. and Computershare Trust Company, N.A., collectively as warrant agent (filed as Exhibit 4.2 to the registrant's Current Report on Form 8-K filed on June 17, 2020, and incorporated herein by reference)
- 4.12 Fifth Supplemental Indenture, dated as of June 23, 2021, by and between SM Energy Company and U.S. Bank National Association, as trustee (filed as Exhibit 4.2 to the registrant's Current Report on Form 8-K filed on June 23, 2021, and incorporated herein by reference)
- 4.13 2022 Notes Supplemental Indenture, dated as of June 23, 2021, by and between SM Energy Company and U.S. Bank National Association, as trustee (filed as Exhibit 4.3 to the registrant's Current Report on Form 8-K filed on June 23, 2021, and incorporated herein by reference)
- 4.14† SM Energy Company Equity Incentive Compensation Plan, amended and restated effective as of May 22, 2018 (filed as Annex A in the registrant's Definitive Proxy Statement on Schedule 14A, filed on April 12, 2018, and incorporated herein by reference)
- 4.15* Description of Securities
- 10.1 Deed of Trust to Wachovia Bank, National Association, as Administrative Agent, dated effective as of April 14, 2009 (filed as Exhibit 10.2 to the registrant's Current Report on Form 8-K filed on April 20, 2009, and incorporated herein by reference)
- Supplement and Amendment to Deed of Trust, Mortgage, Line of Credit Mortgage, Assignment, Security Agreement, Fixture Filing and Financing Statement for the benefit of Wachovia Bank, National Association, as Administrative Agent, dated effective as of April 14, 2009 (filed as Exhibit 10.3 to the registrant's Current Report on Form 8-K filed on April 20, 2009, and incorporated herein by reference)
- Sixth Amended and Restated Credit Agreement dated as of September 28, 2018, among SM Energy Company, Wells Fargo Bank, National Association, as Administrative Agent, and the Lenders party thereto (filed as Exhibit 10.1 to the registrant's Current Report on Form 8-K filed on October 4, 2018, and incorporated herein by reference)
- First Amendment to Sixth Amended and Restated Credit Agreement, dated April 18, 2019 among SM Energy Company, Wells Fargo Bank, National Association, as Administrative Agent, and the Lenders party thereto (filed as Exhibit 10.1 to the registrant's Current Report on Form 8-K filed on April 18, 2019, and incorporated herein by reference)
- 10.5 Second Amendment to Sixth Amended and Restated Credit Agreement, dated September 19, 2019 among SM Energy Company, Wells Fargo Bank, National Association, as Administrative Agent, and the Lenders party thereto (filed as Exhibit 10.1 to the registrant's Current Report on Form 8-K filed on September 24, 2019, and incorporated herein by reference)
- 10.6 Third Amendment to the Sixth Amended and Restated Credit Agreement, dated April 29, 2020, among SM Energy Company, Wells Fargo Bank, National Association, as Administrative Agent, and the institutions named therein as Lenders party thereto (filed as Exhibit 10.1 to the registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2020, and incorporated herein by reference)
- 10.7 Fourth Amendment to the Sixth Amended and Restated Credit Agreement, dated as of May 5, 2020, by and among the Company, Wells Fargo Bank, National Association, as Administrative Agent, and the institutions named therein as Lenders party thereto (filed as Exhibit 10.1 to the registrant's Current Report on Form 8-K filed on May 6, 2020, and incorporated herein by reference)
- 10.8 Fifth Amendment to the Sixth Amended and Restated Credit Agreement, dated as of November 13, 2020, among SM Energy Company, Wells Fargo Bank, National Association, as Administrative Agent, and the Lenders party thereto (filed as Exhibit 10.1 to the registrant's Current Report on Form 8-K filed on November 16, 2020, and incorporated herein by reference)
- Sixth Amendment to the Sixth Amended and Restated Credit Agreement, dated as of June 8, 2021, by and among the Company, Wells Fargo Bank, National Association, as Administrative Agent, and the institutions named therein as Lenders that are a party thereto (filed as Exhibit 10.1 to the registrant's Current Report on Form 8-K filed on June 9, 2021, and incorporated herein by reference)
- 10.10 Intercreditor Agreement dated as of June 17, 2020 among SM Energy Company, Wells Fargo Bank, National Association, as priority lien agent, and UMB Bank, N.A., as second lien collateral trustee (filed as Exhibit 10.1 to the registrant's Current Report on Form 8-K filed on June 17, 2020, and incorporated herein by reference)
- 10.11 Second Lien Pledge and Security Agreement dated as of June 17, 2020 between SM Energy Company and UMB Bank, N.A., as collateral trustee (filed as Exhibit 10.2 to the registrant's Current Report on Form 8-K filed on June 17, 2020, and incorporated herein by reference)
- 10.12 Second Lien Security Agreement dated as of June 17, 2020 between SM Energy Company and UMB Bank, N.A., as collateral trustee (filed as Exhibit 10.3 to the registrant's Current Report on Form 8-K filed on June 17, 2020, and incorporated herein by reference)
- 10.13 Collateral Trust Agreement dated as of June 17, 2020 among SM Energy Company, UMB Bank, N.A., as trustee, UMB Bank, N.A., as collateral trustee, and (by joinder) U.S. Bank National Association, as trustee under the 2021 Notes Indenture (filed as Exhibit 10.4 to the registrant's Current Report on Form 8-K filed on June 17, 2020, and incorporated herein by reference)
- 10.14†† Net Profits Interest Bonus Plan, As Amended by the Board of Directors on July 30, 2010 (filed as Exhibit 10.6 to the registrant's Quarterly Report on Form 10-Q for the quarter ended September 30, 2010 and incorporated herein by reference)

Pension Plan for Employees of SM Energy Company as Amended and Restated as of January 1, 2010 (filed as Exhibit 10.15_† 10.30 to the registrant's Annual Report on Form 10-K filed for the year ended December 31, 2010, and incorporated herein by reference) 10.16† Amendment No. 1 to the Pension Plan for Employees of SM Energy Company amended as of January 1, 2011 (filed as Exhibit 10.41 to the registrant's Annual Report on Form 10-K filed for the year ended December 31, 2011, and incorporated herein by reference) Amendment No. 2 to the Pension Plan for Employees of SM Energy Company amended as of January 1, 2012 (filed as Exhibit 10.42 to the registrant's Annual Report on Form 10-K filed for the year ended December 31, 2011, and 10.17+ incorporated herein by reference) 10.18† Amendment No. 3 to the Pension Plan for Employees of SM Energy Company amended as of January 1, 2016 (filed as Exhibit 10.29 to the registrant's Annual Report on Form 10-K filed for the year ended December 31, 2015, and 10.19+ SM Energy Company Non-Qualified Unfunded Supplemental Retirement Plan as Amended as of December 31, 2010 (filed as Exhibit 10.31 to the registrant's Annual Report on Form 10-K filed for the year ended December 31, 2010, and incorporated herein by reference) 10.20† SM Energy Company Non-Qualified Deferred Compensation Plan as of March 10, 2014 (filed as Exhibit 10.1 to the registrant's Current Report on Form 8-K filed on January 24, 2014, and incorporated herein by reference) 10.21† Cash Bonus Plan, As Amended and Restated as of February 1, 2014 (filed as Exhibit 10.41 to the registrant's Annual Report on Form 10-K filed for the year ended December 31, 2013, and incorporated herein by reference) 10.22† Section 162(m) Cash Bonus Plan, effective as of May 21, 2014 (filed as Exhibit 10.1 to the registrant's Current Report on Form 8-K filed on May 28, 2014, and incorporated herein by reference) Performance Share Unit Award Agreement as of July 1, 2019 (filed as Exhibit 10.2 to the registrant's Quarterly Report on 10.23+ Form 10-Q for the quarter ended June 30, 2019, and incorporated herein by reference) 10.24† SM Energy Company Employee Stock Purchase Plan, amended and restated effective as of April 5, 2021 (filed as Annex A in the registrant's Definitive Proxy Statement on Schedule 14A, filed on April 16, 2021, and incorporated herein by Form of Non-Employee Director Restricted Stock Award Agreement as of May 27, 2010 (filed as Exhibit 10.5 to the registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2010, and incorporated herein by reference) 10.25+ 10.26*† Summary of Compensation Arrangements for Non-Employee Directors Change of Control Executive Severance Agreement (filed as Exhibit 10.1 to the registrant's Current Report on Form 8-K 10.27+ filed on October 20, 2015, and incorporated herein by reference) 10.28† Non-Competition and Non-Solicitation Agreement dated October 26, 2020 between Javan D. Ottoson and SM Energy Company (filed as Exhibit 10.7 to the registrant's Quarterly Report on Form 10-Q for the quarter ended September 30, 2020, and incorporated herein by reference) Gas Services Agreement effective as of July 1, 2010 between SM Energy Company and Eagle Ford Gathering LLC (filed as Exhibit 10.3 to the registrant's Quarterly Report on Form 10-Q for the quarter ended September 30, 2010, and 10.29*** incorporated herein by reference) 10.30*** Gathering and Natural Gas Services Agreement effective as of April 1, 2011 between SM Energy Company and ETC Texas Pipeline, Ltd. (filed as Exhibit 10.3 to the registrant's Quarterly Report on Form 10-Q for the quarter ended June Gas Processing Agreement effective as of April 1, 2011 between ETC Texas Pipeline, Ltd. and SM Energy Company (filed as Exhibit 10.4 to the registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2011, and 10.31*** incorporated herein by reference) 10.32 Amendment to Amended and Restated Gas Gathering Agreement, effective as of February 1, 2016, by and between SM Energy Company and ETC Field Services LLC (filed as Exhibit 10.1 to the registrant's Current Report on Form 8-K filed on February 22, 2016, and incorporated herein by reference) 21.1* Subsidiaries of Registrant 23.1* Consent of Ernst & Young LLP 23.2* Consent of Ryder Scott Company L.P. 24.1* **Power of Attorney** 31.1* Certification of Chief Executive Officer pursuant to Section 302 of the Sarbanes - Oxley Act of 2002 31.2* Certification of Chief Financial Officer pursuant to Section 302 of the Sarbanes - Oxley Act of 2002 32.1** Certification pursuant to 18 U.S.C. Section 1350 as adopted pursuant to Section 906 of the Sarbanes - Oxley Act of 2002 99.1* Ryder Scott Audit Letter Inline XBRL Instance Document - The instance document does not appear in the Interactive Data File because its XBRL 101.INS tags are embedded within the Inline XBRL document.

101.SCH*	Inline XBRL Schema Document
101.CAL*	Inline XBRL Calculation Linkbase Document
101.LAB*	Inline XBRL Label Linkbase Document
101.PRE*	Inline XBRL Presentation Linkbase Document
101.DEF*	Inline XBRL Taxonomy Extension Definition Linkbase Document
104	Cover Page Interactive Data File (formatted as Inline XBRL and contained in Exhibit 101.INS)

^{*} Filed with this report.

- † Exhibit constitutes a management contract or compensatory plan or agreement.
- †† Exhibit constitutes a management contract or compensatory plan or agreement. This document was amended on July 30, 2010 primarily to reflect the change in the name of the registrant from St. Mary Land & Exploration Company to SM Energy Company. There were no material changes to the substantive terms and conditions in this document.
- + Exhibit constitutes a management contract or compensatory plan or agreement. This document was amended on November 9, 2010, in order to make technical revisions to ensure compliance with Section 409A of the Internal Revenue Code. There were no material changes to the substantive terms and conditions in this document.
- (c) Financial Statement Schedules. Please refer to Item 15(a) above.

ITEM 16. FORM 10-K SUMMARY

None.

^{**} Furnished with this report.

^{***} Certain portions of this exhibit have been redacted and are subject to a confidential treatment order granted by the Securities and Exchange Commission pursuant to Rule 24b-2 under the Exchange Act.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

SM ENERGY COMPANY

(Registrant)

Date: February 25, 2022 By: <u>/s/ HERBERT S. VOGEL</u>

Herbert S. Vogel

President and Chief Executive Officer

(Principal Executive Officer)

GENERAL POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints each of Herbert S. Vogel and A. Wade Pursell his or her true and lawful attorney-in-fact and agent with full power of substitution and resubstitution, and each with full power to act alone, for the undersigned and in his or her name, place and stead, in any and all capacities, to sign any amendments to this Annual Report on Form 10-K for the fiscal year ended December 31, 2021, and to file the same, with exhibits thereto and other documents in connection therewith, with the Securities and Exchange Commission, hereby ratifying and confirming all that each of said attorney-in-fact, or his substitute or substitutes, may do or cause to be done by virtue hereof.

Pursuant to the requirements of the Exchange Act, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

Signature	Title	Date
/s/ HERBERT S. VOGEL Herbert S. Vogel	President, Chief Executive Officer, and Director (Principal Executive Officer)	February 25, 2022
/s/ A. WADE PURSELL A. Wade Pursell	Executive Vice President and Chief Financial Officer (Principal Financial Officer)	February 25, 2022
/s/ PATRICK A. LYTLE Patrick A. Lytle	Vice President - Chief Accounting Officer and Controller (Principal Accounting Officer)	February 25, 2022
	110	

Signature	Title	Date
<u>/s/ WILLIAM D. SULLIVAN</u> William D. Sullivan	Chairman of the Board of Directors	February 25, 2022
<u>/s/ CARLA J. BAILO</u> Carla J. Bailo	Director	February 25, 2022
/s/ STEPHEN R. BRAND Stephen R. Brand	Director	February 25, 2022
/s/ RAMIRO G. PERU Ramiro G. Peru	Director	February 25, 2022
/s/ ANITA M. POWERS Anita M. Powers	Director	February 25, 2022
/s/ JULIO M. QUINTANA Julio M. Quintana	Director	February 25, 2022
/s/ ROSE M. ROBESON Rose M. Robeson	Director	February 25, 2022

DESCRIPTION OF SECURITIES

As of December 31, 2021, SM Energy Company has registered one class of securities under Section 12 of the Securities Exchange Act of 1934, as amended (the "Exchange Act").

Description of Common Stock

The following description of our Common Stock is a summary and does not purport to be complete. It is subject to, and qualified in its entirety by, reference to our Restated Certificate of Incorporation (the "Certificate of Incorporation") and our Amended and Restated By-laws (the 'Bylaws'), each of which are incorporated by reference as an exhibit to the Annual Report on Form 10-K of which this Exhibit is a part. We encourage you to read our Certificate of Incorporation, our Bylaws and the applicable provisions of the Delaware General Corporate Law, for additional information.

Authorized Capital Shares

Our authorized capital shares consist of 200,000,000 shares of capital stock, \$0.01 par value per share. We have outstanding shares of common stock ("Common Stock"). The outstanding shares of our Common Stock are fully paid and non-assessable. This means the full purchase price for the outstanding shares of Common Stock has been paid and the holders of such shares will not be assessed any additional amounts for such shares. Any additional shares of Common Stock that the Company may issue in the future will also be fully paid and non-assessable.

The Certificate of Incorporation provides that authorized but unissued shares of Common Stock are available for future issuance without stockholder approval, subject to various limitations imposed by the New York Stock Exchange ("NYSE"). These additional shares of Common Stock may be utilized for a variety of corporate purposes, including future public offerings to raise additional capital, corporate acquisitions and employee benefit plans. The existence of authorized but unissued shares of Common Stock could make it more difficult or discourage an attempt to obtain control of the Company by means of a proxy contest, tender offer, merger or otherwise.

Voting Rights

Each share of Common Stock is entitled to one vote on all matters submitted to a vote of the stockholders, including the election of directors. Our Common Stock does not have cumulative voting rights. This means a holder of a single share of Common Stock cannot cast more than one vote for each position to be filled on the Board of Directors. It also means the holders of a majority of the shares of Common Stock entitled to vote in the election of directors can elect all directors standing for election and the holders of the remaining shares will not be able to elect any directors.

Dividend Rights

The holders of Common Stock are entitled to receive ratably such dividends, if any, as may be declared from time to time by the Board of Directors in its discretion out of funds legally available for the payment of dividends. Delaware law allows a corporation to pay dividends only out of surplus, as determined under Delaware law.

Liquidation Rights

Upon the liquidation, dissolution or winding up of the Company, the holders of Common Stock are entitled to receive ratably the net assets of the Company legally available for distribution.

Other Rights and Preferences

Our Common Stock has no sinking fund provision or preemptive, subscription or conversion rights. The holders of Common Stock may act by unanimous written consent.

Listing

Our Common Stock is traded on the NYSE under the trading symbol "SM."

SUMMARY OF COMPENSATION ARRANGEMENTS FOR NON-EMPLOYEE DIRECTORS

The following is a description of the standard arrangements pursuant to which members of the Board of Directors (the "Board) of SM Energy are compensated for their services:

DIRECTOR COMPENSATION

Employee directors do not receive compensation for their service on the Board or any committee of the Board (each a "Committee").

Directors are generally elected by the Company's stockholders at their annual meeting in late May of each year to serve a one-year term through the subsequent year's annual meeting of stockholders. For service during the 2021 - 2022 term, target compensation for each member of the Board of Directors was set at \$250,000 annually, and was split between (i) an equity grant comprised of the Company's common stock valued at \$160,000 at the time of election; and (ii) a cash retainer of \$90,000, paid in lieu of Board and Committee meeting attendance fees.

With respect to the annual equity grant component of a director's compensation, the number of shares issued to each director was determined based on the closing price of the Company's common stock on the date of election to the Board and resulted in the grant of 8,041 shares to each non-employee director, which shares were restricted upon issuance until they vested on December 31, 2021.

With respect to the cash retainer component of a director's compensation, directors may elect to receive shares of the Company's common stock in lieu of, and of a value equal to, the amount of the annual cash retainer. Further, if any non-employee director attends more than 30 Board and Committee meetings in the aggregate during the one-year term, such director is entitled to \$1.500 per meeting for each meeting in excess of 30.

In addition, each director is reimbursed for expenses incurred in attending Board and Committee meetings and director education programs.

In addition to the base director compensation structure described above, the non-executive chairman of the Board and the chair of each Committee received compensation in the amounts set forth below in recognition of the additional workload of their respective assignments. With the exception of the non-executive chairman payment, these amounts were paid in cash at the beginning of the annual service period.

- Non-executive Chairman \$100,000 (equity compensation paid in the form of 5,026 shares of the Company's common stock based on the closing price on the date of the Company's annual meeting)
- Audit Committee \$20,000
- Compensation Committee \$15,000
- Environmental, Social and Governance Committee \$13,500

For her 2021 - 2022 term of service, Carla Bailo elected to receive her retainer in the form of shares of the Company's common stock, which resulted in a grant of 4,523 shares of SM Energy common stock. These shares were restricted upon issuance until they vested on December 31, 2021. Stephen Brand, Ramiro Peru, Julio Quintana, Rose Robeson and William Sullivan each elected to receive a \$90,000 cash payment for their retainer. Anita Powers was appointed to the Board on November 22, 2021, and received the same compensation arrangement as the other members of the Board, prorated for her term of service. For her 2021 - 2022 term of service, Ms. Powers received 2,715 shares based on the closing price of the Company's common stock on November 19, 2021, and a \$46,109.59 cash payment. Ms. Powers' equity compensation vested on December 31, 2021.

All shares issued to directors as compensation for their Board service are issued under SM Energy's Equity Incentive Compensation Plan.

SUBSIDIARIES OF SM ENERGY COMPANY

- A. Wholly-owned subsidiaries of SM Energy Company, a Delaware corporation:
 - 1. SMT Texas LLC, a Colorado limited liability company

 - Belring GP LLC, a Delaware limited liability company
 St. Mary Energy Louisiana LLC, a Delaware limited liability company
 Hilltop Investments, a Colorado general partnership

 - Parish Ventures, a Colorado general partnership Green Canyon Offshore LLC, a Delaware limited liability company
- B. Partnership interests held by SMT Texas, LLC:
 - 1. St. Mary Land East Texas LP, a Texas limited partnership (99%) (the remaining 1% interest is held by SM Energy Company)

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference in the following Registration Statements:

- Registration Statement (Form S-8 Nos. 333-30055, 333-35352, 333-88780, 333-58273, 333-134221, 333-151779, 333-165740, 333-170351, 333-194305, 333-212359, 333-219719, 333-226660, and 333-257005) of SM Energy Company, Post-Effective Amendment No. 1 to Registration Statement (Form S-8 No. 333-106438) of SM Energy Company, Registration Statement (Form S-3 Nos. 333-257046 and 333-259979) of SM Energy Company;

of our reports dated February 25, 2022, with respect to the consolidated financial statements of SM Energy Company and subsidiaries, and the effectiveness of internal control over financial reporting of SM Energy Company and subsidiaries, included in this Annual Report (Form 10-K) of SM Energy Company and subsidiaries for the year ended December 31, 2021.

/s/ Ernst & Young LLP

Denver, Colorado February 25, 2022 HOUSTON, TEXAS 77002-5294

FAX (713) 651-0849 TELEPHONE (713) 651-9191

EXHIBIT 23.2

CONSENT OF INDEPENDENT PETROLEUM ENGINEERS AND GEOLOGISTS

The undersigned hereby consents to the references to our firm in the form and context in which they appear in the Annual Report on Form 10-K of SM Energy Company for the year ended December 31, 2021. We hereby further consent to the use of information contained in our reports, and the use of our audit letter, as of December 31, 2021, relating to estimates of revenues from SM Energy Company's oil, gas, and NGL reserves. We further consent to the incorporation by reference thereof into SM Energy Company's Post-Effective Amendment No. 1 to Registration Statement Nos. 333-106438 and 033-61850 on Form S-8, Registration Statement Nos. 333-30055, 333-35352, 333-88780, 333-58273, 333-134221, 333-151779, 333-165740, 333-170351, 333-194305, 333-212359, 333-219719, 333-226660, and 333-257005 on Form S-8, and Registration Statement Nos. 333-257046 and 333-259979 on Form S-3.

/s/ RYDER SCOTT COMPANY, L.P. RYDER SCOTT COMPANY, L.P. TBPELS Firm Registration No. F-1580

Houston, Texas February 25, 2022

CERTIFICATION

- I, Herbert S. Vogel, certify that:
- 1. I have reviewed this annual report on Form 10-K of SM Energy Company;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 25, 2022

/s/ HERBERT S. VOGEL
Herbert S. Vogel
President and Chief Executive Officer

CERTIFICATION

- I, A. Wade Pursell, certify that:
- 1. I have reviewed this annual report on Form 10-K of SM Energy Company;
- Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 25, 2022

/s/ A. WADE PURSELL
A. Wade Pursell
Executive Vice President and Chief Financial Officer

CERTIFICATION

PURSUANT TO

18 U.S.C. SECTION 1350,

AS ADOPTED PURSUANT TO

SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Annual Report on Form 10-K of SM Energy Company (the "Company") for the fiscal year ended December 31, 2021, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), Herbert S. Vogel, as President and Chief Executive Officer of the Company, and A. Wade Pursell, as Executive Vice President and Chief Financial Officer of the Company, each hereby certifies, pursuant to and solely for the purpose of 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, to the best of his knowledge and belief, that:

- (1) The Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m or 78o(d)); and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

/s/ HERBERT S. VOGEL Herbert S. Vogel President and Chief Executive Officer February 25, 2022

<u>/s/ A. WADE PURSELL</u>
A. Wade Pursell
Executive Vice President and Chief Financial Officer
February 25, 2022

SM ENERGY COMPANY

Estimated

Future Reserves

Attributable to Certain

Leasehold Interests

SEC Parameters

As of

December 31, 2021

/s/ Val Rick Robinson

Val Rick Robinson, P.E. TBPELS License No. 105137 Managing Senior Vice President /s/ Timothy W. Smith

Timothy W. Smith, P.E. TBPELS License No. 70195 Senior Vice President







HOUSTON, TEXAS 77002-5294

FAX (713) 651-0849 TELEPHONE (713) 651-9191

January 4, 2022

Mr. Levi J. Briese, P.E. TBPELS License No. 126456 Corporate Engineering Manager SM Energy Company 1775 Sherman Street, Suite 1200 Denver, Colorado 80203

Dear Mr. Briese:

At the request of SM Energy Company (SM Energy), Ryder Scott Company, L.P. (Ryder Scott) has conducted a reserves audit of the estimates of the proved reserves as of December 31, 2021 prepared by SM Energy's engineering and geological staff based on the definitions and disclosure guidelines of the United States Securities and Exchange Commission (SEC) contained in Title 17, Code of Federal Regulations, Modernization of Oil and Gas Reporting, Final Rule released January 14, 2009 in the Federal Register (SEC regulations). Our third party reserves audit, completed on December 17, 2021 and presented herein, was prepared for public disclosure by SM Energy in filings made with the SEC in accordance with the disclosure requirements set forth in the SEC regulations. The estimated reserves shown herein represent SM Energy's estimated net reserves attributable to the leasehold interests in certain properties owned by SM Energy and the portion of those reserves reviewed by Ryder Scott, as of December 31, 2021. The properties reviewed by Ryder Scott incorporate 1,227 SM Energy reserves determinations and are located in the state of Texas.

The properties reviewed by Ryder Scott account for a portion of SM Energy's total net proved reserves as of December 31, 2021. Based on the estimates of total net proved reserves prepared by SM Energy, the reserves audit conducted by Ryder Scott addresses 93 percent of the total proved developed net liquid hydrocarbon reserves, 93 percent of the total proved developed net gas reserves, 79 percent of the total proved undeveloped net liquid hydrocarbon reserves, and 68 percent of the total proved undeveloped net gas reserves of SM Energy.

The properties reviewed by Ryder Scott account for a portion of SM Energy's total proved discounted future net income using SEC hydrocarbon price parameters as of December 31, 2021. Based on the reserves and income projections prepared by SM Energy, the audit conducted by Ryder Scott addresses 94 percent of the discounted future net income at 10% of the total proved developed reserves and 77 percent of the discounted future net income at 10% of the total proved undeveloped reserves of SM Energy.

As prescribed by the Society of Petroleum Engineers in Paragraph 2.2(f) of the Standards Pertaining to the Estimating and Auditing of Oil and Gas Reserves Information (SPE auditing standards), a reserves audit is defined as "the process of reviewing certain of the pertinent facts interpreted and assumptions made that have resulted in an estimate of reserves and/or Reserves Information prepared by others and the rendering of an opinion about (1) the appropriateness of the

methodologies employed; (2) the adequacy and quality of the data relied upon; (3) the depth and thoroughness of the reserves estimation process; (4) the classification of reserves appropriate to the relevant definitions used; and (5) the reasonableness of the estimated reserve quantities and/or Reserves Information." Reserves Information may consist of various estimates pertaining to the extent and value of petroleum properties.

Based on our review, including the data, technical processes and interpretations presented by SM Energy, it is our opinion that the overall procedures and methodologies utilized by SM Energy in preparing their estimates of the proved reserves as of December 31, 2021 comply with the current SEC regulations and that the overall proved reserves for the reviewed properties as estimated by SM Energy are, in the aggregate, reasonable within the established audit tolerance guidelines of 10 percent as set forth in the SPE auditing standards.

The estimated reserves presented in this report are related to hydrocarbon prices. SM Energy has informed us that in the preparation of their reserves and income projections, as of December 31, 2021, they used average prices during the 12-month period prior to the "as of date" of this report, determined as the unweighted arithmetic averages of the prices in effect on the first-day-of-the-month for each month within such period, unless prices were defined by contractual arrangements, as required by the SEC regulations. Actual future prices may vary considerably from the prices required by SEC regulations. The recoverable reserves volumes and the income attributable thereto have a direct relationship to the hydrocarbon prices actually received; therefore, volumes of reserves actually recovered may differ significantly from the estimated quantities presented in this report. The net reserves as estimated by SM Energy attributable to SM Energy's interest in properties that we reviewed and for those that we did not review are summarized below:

SEC PARAMETERS

Estimated Net Reserves
Certain Leasehold Interests of
SM Energy Company

As of December 31, 2021

Proved Total Developed Producing Non-Producing Undeveloped Proved Net Reserves of Properties Audited by Ryder Scott Oil/Condensate - MBBL 104.054 85 69.457 173.596 Plant Products - MBBL 45,063 230 28,100 73,393 Gas - MMCF 773,691 1,523 280,533 1,055,747 Net Reserves of Properties Not Audited by Ryder Scott 5,146 25,925 Oil/Condensate - MBBL 1,410 19,369 Plant Products - MBBL 5,050 321 6,422 11,793 Gas - MMCF 52,083 5,728 129,903 187,714 **Total Net Reserves** Oil/Condensate - MBBL 109.200 1.495 88.826 199.521 Plant Products - MBBL 50,113 551 34,522 85,186

Liquid hydrocarbons are expressed in standard 42 U.S. gallon barrels and shown herein as thousands of barrels (MBBL). All gas volumes are reported on an "as sold basis" expressed in millions of cubic feet (MMCF) at the official temperature and pressure bases of the areas in which the gas reserves are located.

7,251

410.436

1,243,461

825,774

Reserves Included in This Report

Gas - MMCF

In our opinion, the proved reserves presented in this report conform to the definition as set forth in the Securities and Exchange Commission's Regulations Part 210.4-10(a). An abridged version of the SEC reserves definitions from 210.4-10(a) entitled "PETROLEUM RESERVES DEFINITIONS" is included as an attachment to this report.

The proved reserves status categories are defined in the attachment entitled "PETROLEUM RESERVES STATUS DEFINITIONS AND GUIDELINES" in this report. The proved developed non-producing reserves included herein consist of the behind pipe status category.

Reserves are "estimated remaining quantities of oil and gas and related substances anticipated to be economically producible, as of a given date, by application of development projects to known accumulations." All reserves estimates involve an assessment of the uncertainty relating the likelihood that the actual remaining quantities recovered will be greater or less than the estimated quantities determined as of the date the estimate is made. The uncertainty depends chiefly on the amount of reliable geologic and engineering data available at the time of the estimate and the interpretation of these data. The relative degree of uncertainty may be conveyed by placing reserves into one of two

principal classifications, either proved or unproved. Unproved reserves are less certain to be recovered than proved reserves and may be further sub-categorized as probable and possible reserves to denote progressively increasing uncertainty in their recoverability. At SM Energy's request, this report addresses only the proved reserves attributable to the properties reviewed herein.

Proved oil and gas reserves are "those quantities of oil and gas which, by analysis of geoscience and engineering data, can be estimated with reasonable certainty to be economically producible from a given date forward." The proved reserves included herein were estimated using deterministic methods. The SEC has defined reasonable certainty for proved reserves, when based on deterministic methods, as a "high degree of confidence that the quantities will be recovered."

Proved reserves estimates will generally be revised only as additional geologic or engineering data become available or as economic conditions change. For proved reserves, the SEC states that "as changes due to increased availability of geoscience (geological, geophysical, and geochemical), engineering, and economic data are made to the estimated ultimate recovery (EUR) with time, reasonably certain EUR is much more likely to increase or remain constant than to decrease." Moreover, estimates of proved reserves may be revised as a result of future operations, effects of regulation by governmental agencies or geopolitical or economic risks. Therefore, the proved reserves included in this report are estimates only and should not be construed as being exact quantities. They may or may not be actually recovered and actual recovery could be more or less than the estimated amounts.

Audit Data, Methodology, Procedure and Assumptions

The estimation of reserves involves two distinct determinations. The first determination results in the estimation of the quantities of recoverable oil and gas and the second determination results in the estimation of the uncertainty associated with those estimated quantities in accordance with the definitions set forth by the Securities and Exchange Commission's Regulations Part 210.4-10(a). The process of estimating the quantities of recoverable oil and gas reserves relies on the use of certain generally accepted analytical procedures. These analytical procedures fall into three broad categories or methods: (1) performance-based methods; (2) volumetric-based methods; and (3) analogy. These methods may be used individually or in combination by the reserves evaluator in the process of estimating the quantities of reserves. Reserves evaluators must select the method or combination of methods which in their professional judgment is most appropriate given the nature and amount of reliable geoscience and engineering data available at the time of the estimate, the established or anticipated performance characteristics of the reservoir being evaluated and the stage of development or producing maturity of the property.

In many cases, the analysis of the available geoscience and engineering data and the subsequent interpretation of this data may indicate a range of possible outcomes in an estimate, irrespective of the method selected by the evaluator. When a range in the quantity of reserves is identified, the evaluator must determine the uncertainty associated with the incremental quantities of the reserves. If the reserves quantities are estimated using the deterministic incremental approach, the uncertainty for each discrete incremental quantity of the reserves is addressed by the reserves category assigned by the evaluator. Therefore, it is the categorization of reserves quantities as proved, probable and/or possible that addresses the inherent uncertainty in the estimated quantities reported. For proved reserves, uncertainty is defined by the SEC as reasonable certainty wherein the "quantities actually recovered are much more likely to be achieved than not." The SEC states that "probable reserves are those additional reserves that are less certain to be recovered than proved reserves are those additional reserves that are less certain to be recovered than probable

reserves and the total quantities ultimately recovered from a project have a low probability of exceeding proved plus probable plus possible reserves." All quantities of reserves within the same reserves category must meet the SEC definitions as noted above.

Estimates of reserves quantities and their associated reserves categories may be revised in the future as additional geoscience or engineering data become available. Furthermore, estimates of reserves quantities and their associated reserves categories may also be revised due to other factors such as changes in economic conditions, results of future operations, effects of regulation by governmental agencies or geopolitical or economic risks as previously noted herein.

The proved reserves, prepared by SM Energy, for the properties that we reviewed were estimated by performance methods, analogy, or a combination of methods. All of the proved producing reserves attributable to producing wells and/or reservoirs were estimated by performance methods. The performance methods, such as decline curve analysis, utilized extrapolations of historical production data available through November 2020 in those cases where such data were considered to be definitive. The data utilized in this analysis were furnished to Ryder Scott by SM Energy or obtained from public data sources and were considered sufficient for the purpose thereof.

All of the proved non-producing and undeveloped reserves included herein were estimated by analogy. The analogs utilized data furnished to Ryder Scott by SM Energy or which we have obtained from public data sources that were available through November 2020.

To estimate economically recoverable proved oil and gas reserves, many factors and assumptions are considered including, but not limited to, the use of reservoir parameters derived from geological, geophysical and engineering data which cannot be measured directly, economic criteria based on current costs and SEC pricing requirements, and forecasts of future production rates. Under the SEC regulations 210.4-10(a)(22)(v) and (26), proved reserves must be anticipated to be economically producible from a given date forward based on existing economic conditions including the prices and costs at which economic producibility from a reservoir is to be determined. While it may reasonably be anticipated that the future prices received for the sale of production and the operating costs and other costs relating to such production may increase or decrease from those under existing economic conditions, such changes were, in accordance with rules adopted by the SEC, omitted from consideration in conducting this review.

As stated previously, proved reserves must be anticipated to be economically producible from a given date forward based on existing economic conditions including the prices and costs at which economic producibility from a reservoir is to be determined. To confirm that the proved reserves reviewed by us meet the SEC requirements to be economically producible, we have reviewed certain primary economic data utilized by SM Energy relating to hydrocarbon prices and costs as noted herein.

The hydrocarbon prices furnished by SM Energy for the properties reviewed by us are based on SEC price parameters using the average prices during the 12-month period prior to the "as of date" of this report, determined as the unweighted arithmetic averages of the prices in effect on the first-day-of-the-month for each month within such period, unless prices were defined by contractual arrangements. For hydrocarbon products sold under contract, the contract prices, including fixed and determinable escalations exclusive of inflation adjustments, were used until expiration of the contract. Upon contract expiration, the prices were adjusted to the 12-month unweighted arithmetic average as previously described.

The initial SEC hydrocarbon prices in effect on December 31, 2020 for the properties reviewed by us were determined using the 12-month average first-day-of-the-month benchmark prices

appropriate to the geographic area where the hydrocarbons are sold. These benchmark prices are prior to the adjustments for differentials as described herein. The table below summarizes the "benchmark prices" and "price reference" used by SM Energy for the geographic area reviewed by us. In certain geographic areas, the price reference and benchmark prices may be defined by contractual arrangements.

The product prices which were actually used by SM Energy to determine the future gross revenue for each property reviewed by us reflect adjustments to the benchmark prices for gravity, quality, local conditions, and/or distance from market, referred to herein as "differentials." The differentials used by SM Energy were accepted as factual data and reviewed by us for their reasonableness; however, we have not conducted an independent verification of the data used by SM Energy.

The table below summarizes SM Energy's net volume weighted benchmark prices adjusted for differentials for the properties reviewed by us and referred to herein as SM Energy's "average realized prices." The average realized prices shown in the table below were determined from SM Energy's estimate of the total future gross revenue before production taxes for the properties reviewed by us and SM Energy's estimate of the total net reserves for the properties reviewed by us for the geographic area. The data shown in the table below is presented in accordance with SEC disclosure requirements for the geographic area reviewed by us.

Geographic Area	Product	Price Reference	Average Benchmark Prices	Average Realized Prices
North America				
	Oil/Condensate	WTI, Cushing	\$66.65/BBL	\$66.19/BBL
United States	NGLs	Hart Energy Composite (1)	\$36.60/BBL	\$29.44/BBL
	Gas	Henry Hub	\$3.598/MMBTU	\$4.29/MCF

⁽¹⁾ Price reflects composition of ethane, propane, butane, and pentanes plus.

The effects of derivative instruments designated as price hedges of oil and gas quantities are not reflected in SM Energy's individual property evaluations.

Accumulated gas production imbalances, if any, were not taken into account in the proved gas reserves estimates reviewed. The proved gas volumes presented herein do not include volumes of gas consumed in operations as reserves.

Operating costs furnished by SM Energy are based on the operating expense reports of SM Energy and include only those costs directly applicable to the leases or wells for the properties reviewed by us. The operating costs include a portion of general and administrative costs allocated directly to the leases and wells. For operated properties, the operating costs include an appropriate level of corporate general administrative and overhead costs. The operating costs for non-operated properties include the COPAS overhead costs that are allocated directly to the leases and wells under terms of operating agreements. The operating costs furnished by SM Energy were accepted as factual data and reviewed by us for their reasonableness; however, we have not conducted an independent verification of the data used by SM Energy. No deduction was made for loan repayments, interest expenses, or exploration and development prepayments that were not charged directly to the leases or wells.

Development costs furnished by SM Energy are based on authorizations for expenditure for the proposed work or actual costs for similar projects. The development costs furnished by SM Energy were accepted as factual data and reviewed by us for their reasonableness; however, we have not conducted an independent verification of the data used by SM Energy. The estimated net cost of abandonment and salvage was included by SM Energy for properties where abandonment costs and salvage were material. SM Energy's estimates of the net abandonment costs were accepted without independent verification.

The proved undeveloped reserves for the properties reviewed by us have been incorporated herein in accordance with SM Energy's plans to develop these reserves as of December 31, 2021. The implementation of SM Energy's development plans as presented to us is subject to the approval process adopted by SM Energy's management. As the result of our inquiries during the course of our review, SM Energy has informed us that the development activities for the properties reviewed by us have been subjected to and received the internal approvals required by SM Energy's management at the appropriate local, regional and/or corporate level. In addition to the internal approvals as noted, certain development activities may still be subject to specific partner AFE processes, Joint Operating Agreement (JOA) requirements or other administrative approvals external to SM Energy. SM Energy has provided written documentation supporting their commitment to proceed with the development activities as presented to us. Additionally, SM Energy has informed us that they are not aware of any legal, regulatory, or political obstacles that would significantly alter their plans. While these plans could change from those under existing economic conditions as of December 31, 2021, such changes were, in accordance with rules adopted by the SEC, omitted from consideration in making this evaluation.

Current costs used by SM Energy were held constant throughout the life of the properties.

SM Energy's forecasts of future production rates are based on historical performance from wells currently on production. If no production decline trend has been established, future production rates were held constant, or adjusted for the effects of curtailment where appropriate, until a decline in ability to produce was anticipated. An estimated rate of decline was then applied until depletion of the reserves. If a decline trend has been established, this trend was used as the basis for estimating future production rates.

Test data and other related information were used by SM Energy to estimate the anticipated initial production rates for those wells or locations that are not currently producing. For reserves not yet on production, sales were estimated to commence at an anticipated date furnished by SM Energy. Wells or locations that are not currently producing may start producing earlier or later than anticipated in SM Energy's estimates due to unforeseen factors causing a change in the timing to initiate production. Such factors may include delays due to weather, the availability of rigs, the sequence of drilling, completing and/or recompleting wells and/or constraints set by regulatory bodies.

The future production rates from wells currently on production or wells or locations that are not currently producing may be more or less than estimated because of changes including, but not limited to, reservoir performance, operating conditions related to surface facilities, compression and artificial lift, pipeline capacity and/or operating conditions, producing market demand and/or allowables or other constraints set by regulatory bodies.

SM Energy's operations may be subject to various levels of governmental controls and regulations. These controls and regulations may include, but may not be limited to, matters relating to land tenure and leasing, the legal rights to produce hydrocarbons, drilling and production practices, environmental protection, marketing and pricing policies, royalties, various taxes and levies including income tax and are subject to change from time to time. Such changes in governmental regulations

and policies may cause volumes of proved reserves actually recovered and amounts of proved income actually received to differ significantly from the estimated quantities.

The estimates of proved reserves presented herein were based upon a review of the properties in which SM Energy owns an interest; however, we have not made any field examination of the properties. No consideration was given in this report to potential environmental liabilities that may exist nor were any costs included by SM Energy for potential liabilities to restore and clean up damages, if any, caused by past operating practices.

Certain technical personnel of SM Energy are responsible for the preparation of reserves estimates on new properties and for the preparation of revised estimates, when necessary, on old properties. These personnel assembled the necessary data and maintained the data and workpapers in an orderly manner. We consulted with these technical personnel and had access to their workpapers and supporting data in the course of our audit.

SM Energy has informed us that they have furnished us all of the material accounts, records, geological and engineering data, and reports and other data required for this investigation. In performing our audit of SM Energy's forecast of future proved production, we have relied upon data furnished by SM Energy with respect to property interests owned, production and well tests from examined wells, normal direct costs of operating the wells or leases, other costs such as transportation and/or processing fees, ad valorem and production taxes, recompletion and development costs, development plans, abandonment costs after salvage, product prices based on the SEC regulations, adjustments or differentials to product prices, geological structural and isochore maps, well logs, core analyses, and pressure measurements. Ryder Scott reviewed such factual data for its reasonableness; however, we have not conducted an independent verification of the data furnished by SM Energy. The data described herein were accepted as authentic and sufficient for determining the reserves unless, during the course of our examination, a matter of question came to our attention in which case the data were not accepted until all questions were satisfactorily resolved. We consider the factual data furnished to us by SM Energy to be appropriate and sufficient for the purpose of our review of SM Energy's estimates of reserves. In summary, we consider the assumptions, data, methods and analytical procedures used by SM Energy and as reviewed by us appropriate for the purpose hereof, and we have used all such methods and procedures that we consider necessary and appropriate under the circumstances to render the conclusions set forth herein.

Audit Opinion

Based on our review, including the data, technical processes and interpretations presented by SM Energy, it is our opinion that the overall procedures and methodologies utilized by SM Energy in preparing their estimates of the proved reserves as of December 31, 2021 comply with the current SEC regulations and that the overall proved reserves for the reviewed properties as estimated by SM Energy are, in the aggregate, reasonable within the established audit tolerance guidelines of 10 percent as set forth in the SPE auditing standards. Ryder Scott found the processes and controls used by SM Energy in their estimation of proved reserves to be effective and, in the aggregate, we found no bias in the utilization and analysis of data in estimates for these properties.

We were in reasonable agreement with SM Energy's estimates of proved reserves for the properties which we reviewed; although in certain cases there was more than an acceptable variance between SM Energy's estimates and our estimates due to a difference in interpretation of data or due to our having access to data which were not available to SM Energy when its reserves estimates were prepared. However notwithstanding, it is our opinion that on an aggregate basis the data presented

herein for the properties that we reviewed fairly reflects the estimated net reserves owned by SM Energy.

Other Properties

Other properties, as used herein, are those properties of SM Energy which we did not review. The proved net reserves attributable to the other properties account for 13 percent of the total proved net liquid hydrocarbon reserves and 15 percent of the total proved net gas reserves based on estimates prepared by SM Energy as of December 31, 2021. The other properties represent 12 percent of the total proved discounted future net income at 10% based on the unescalated pricing policy of the SEC as taken from reserves and income projections prepared by SM Energy as of December 31, 2021.

The same technical personnel of SM Energy were responsible for the preparation of the reserves estimates for the properties that we reviewed as well as for the properties not reviewed by Ryder Scott.

Standards of Independence and Professional Qualification

Ryder Scott is an independent petroleum engineering consulting firm that has been providing petroleum consulting services throughout the world since 1937. Ryder Scott is employee-owned and maintains offices in Houston, Texas; Denver, Colorado; and Calgary, Alberta, Canada. We have approximately eighty engineers and geoscientists on our permanent staff. By virtue of the size of our firm and the large number of clients for which we provide services, no single client or job represents a material portion of our annual revenue. We do not serve as officers or directors of any privately-owned or publicly-traded oil and gas company and are separate and independent from the operating and investment decision-making process of our clients. This allows us to bring the highest level of independence and objectivity to each engagement for our services.

Ryder Scott actively participates in industry-related professional societies and organizes an annual public forum focused on the subject of reserves evaluations and SEC regulations. Many of our staff have authored or co-authored technical papers on the subject of reserves related topics. We encourage our staff to maintain and enhance their professional skills by actively participating in ongoing continuing education.

Prior to becoming an officer of the Company, Ryder Scott requires that staff engineers and geoscientists have received professional accreditation in the form of a registered or certified professional engineer's license or a registered or certified professional geoscientist's license, or the equivalent thereof, from an appropriate governmental authority or a recognized self-regulating professional organization. Regulating agencies require that, in order to maintain active status, a certain amount of continuing education hours be completed annually, including an hour of ethics training. Ryder Scott fully supports this technical and ethics training with our internal requirement mentioned above.

We are independent petroleum engineers with respect to SM Energy. Neither we nor any of our employees have any financial interest in the subject properties, and neither the employment to do this work nor the compensation is contingent on our estimates of reserves for the properties which were reviewed.

The results of this audit, presented herein, are based on technical analysis conducted by teams of geoscientists and engineers from Ryder Scott. The professional qualifications of the undersigned, the technical person primarily responsible for overseeing the review of the reserves information discussed in this report, are included as an attachment to this letter.

Terms of Usage

The results of our third party audit, presented in report form herein, were prepared in accordance with the disclosure requirements set forth in the SEC regulations and intended for public disclosure as an exhibit in filings made with the SEC by SM Energy.

SM Energy makes periodic filings on Form 10-K with the SEC under the 1934 Exchange Act. Furthermore, SM Energy has certain registration statements filed with the SEC under the 1933 Securities Act into which any subsequently filed Form 10-K is incorporated by reference. We have consented to the incorporation by reference in the registration statements on Form S-8 of SM Energy, of the references to our name, as well as to the references to our third party report for SM Energy, which appears in the December 31, 2021 annual report on Form 10-K of SM Energy. Our written consent for such use is included as a separate exhibit to the filings made with the SEC by SM Energy.

We have provided SM Energy with a digital version of the original signed copy of this report letter. In the event there are any differences between the digital version included in filings made by SM Energy and the original signed report letter, the original signed report letter shall control and supersede the digital version.

The data and work papers used in the preparation of this report are available for examination by authorized parties in our offices. Please contact us if we can be of further service.

Very truly yours,

RYDER SCOTT COMPANY, L.P. TBPELS Firm Registration No. F-1580



/s/ Val Rick Robinson

Val Rick Robinson

TBPELS License No. 105137

Managing Senior Vice President

/s/ Timothy W. Smith
Timothy W. Smith, P.E.
TBPELS License No. 70195
Senior Vice President



VRR-TWS (LPC)/pl

Professional Qualifications of Primary Technical Engineer

The conclusions presented in this report are the result of technical analysis conducted by teams of geoscientists and engineers from Ryder Scott Company, L.P. Mr. Val Rick Robinson was the primary technical person responsible for the estimate of the reserves, future production and income presented herein.

Mr. Robinson, an employee of Ryder Scott Company, L.P. (Ryder Scott) since 2006, is a Managing Senior Vice President responsible for coordinating and supervising staff and consulting engineers of the company in ongoing reservoir evaluation studies worldwide. Before joining Ryder Scott, Mr. Robinson served in a number of engineering positions with ExxonMobil Corporation. For more information regarding Mr. Robinson's geographic and job specific experience, please refer to the Ryder Scott Company website at www.ryderscott.com.

Mr. Robinson earned a Bachelor of Science degree in Chemical Engineering from Brigham Young University in 2003 and is a licensed Professional Engineer in the State of Texas. He is also a member of the Society of Petroleum Engineers.

In addition to gaining experience and competency through prior work experience, the Texas Board of Professional Engineers requires a minimum of fifteen hours of continuing education annually, including at least one hour in the area of professional ethics, which Mr. Robinson fulfills. As part of his 2021 continuing education hours, Mr. Robinson attended 30 hours of formalized training including the 2021 RSC Reserves Conference and various professional society presentations covering such topics as the definitions and disclosure guidelines contained in the United States Securities and Exchange Commission Title 17, Code of Federal Regulations, Modernization of Oil and Gas Reporting, Final Rule released January 14, 2009 in the Federal Register, the SPE/WPC/AAPG/SPEE Petroleum Resources Management System, reservoir engineering, overviews of the various productive basins of North America, computer software, and professional ethics.

Based on his educational background, professional training and more than 18 years of practical experience in the estimation and evaluation of petroleum reserves, Mr. Robinson has attained the professional qualifications as a Reserves Estimator set forth in Article III of the "Standards Pertaining to the Estimating and Auditing of Oil and Gas Reserves Information" promulgated by the Society of Petroleum Engineers as of June 2019.

PETROLEUM RESERVES DEFINITIONS

As Adapted From: RULE 4-10(a) of REGULATION S-X PART 210 UNITED STATES SECURITIES AND EXCHANGE COMMISSION (SEC)

PREAMBLE

On January 14, 2009, the United States Securities and Exchange Commission (SEC) published the "Modernization of Oil and Gas Reporting; Final Rule" in the Federal Register of National Archives and Records Administration (NARA). The "Modernization of Oil and Gas Reporting; Final Rule" includes revisions and additions to the definition section in Rule 4-10 of Regulation S-X, revisions and additions to the oil and gas reporting requirements in Regulation S-K, and amends and codifies Industry Guide 2 in Regulation S-K. The "Modernization of Oil and Gas Reporting; Final Rule", including all references to Regulation S-X and Regulation S-K, shall be referred to herein collectively as the "SEC regulations". The SEC regulations take effect for all filings made with the United States Securities and Exchange Commission as of December 31, 2009, or after January 1, 2010. Reference should be made to the full text under Title 17, Code of Federal Regulations, Regulation S-X Part 210, Rule 4-10(a) for the complete definitions (direct passages excerpted in part or wholly from the aforementioned SEC document are denoted in italics herein).

Reserves are estimated remaining quantities of oil and gas and related substances anticipated to be economically producible, as of a given date, by application of development projects to known accumulations. All reserve estimates involve an assessment of the uncertainty relating the likelihood that the actual remaining quantities recovered will be greater or less than the estimated quantities determined as of the date the estimate is made. The uncertainty depends chiefly on the amount of reliable geologic and engineering data available at the time of the estimate and the interpretation of these data. The relative degree of uncertainty may be conveyed by placing reserves into one of two principal classifications, either proved or unproved. Unproved reserves are less certain to be recovered than proved reserves and may be further sub-classified as probable and possible reserves to denote progressively increasing uncertainty in their recoverability. Under the SEC regulations as of December 31, 2009, or after January 1, 2010, a company may optionally disclose estimated quantities of probable or possible oil and gas reserves in documents publicly filed with the SEC. The SEC regulations continue to prohibit disclosure of estimates of oil and gas resources other than reserves and any estimated values of such resources in any document publicly filed with the SEC unless such information is required to be disclosed in the document by foreign or state law as noted in §229.1202 Instruction to Item 1202.

Reserves estimates will generally be revised only as additional geologic or engineering data become available or as economic conditions change.

Reserves may be attributed to either natural energy or improved recovery methods. Improved recovery methods include all methods for supplementing natural energy or altering natural forces in the reservoir to increase ultimate recovery. Examples of such methods are pressure maintenance, natural gas cycling, waterflooding, thermal methods, chemical flooding, and the use of miscible and immiscible displacement fluids. Other improved recovery methods may be developed in the future as petroleum technology continues to evolve.

Reserves may be attributed to either conventional or unconventional petroleum accumulations. Petroleum accumulations are considered as either conventional or unconventional based on the nature of their in-place characteristics, extraction method applied, or degree of processing prior to sale. Examples of unconventional petroleum accumulations include coalbed or coalseam methane (CBM/CSM), basin-centered gas, shale gas, gas hydrates, natural bitumen and oil shale deposits. These unconventional accumulations may require specialized extraction technology and/or significant processing prior to sale.

Reserves do not include quantities of petroleum being held in inventory.

Because of the differences in uncertainty, caution should be exercised when aggregating quantities of petroleum from different reserves categories.

RESERVES (SEC DEFINITIONS)

Securities and Exchange Commission Regulation S-X §210.4-10(a)(26) defines reserves as follows:

Reserves. Reserves are estimated remaining quantities of oil and gas and related substances anticipated to be economically producible, as of a given date, by application of development projects to known accumulations. In addition, there must exist, or there must be a reasonable expectation that there will exist, the legal right to produce or a revenue interest in the production, installed means of delivering oil and gas or related substances to market, and all permits and financing required to implement the project.

Note to paragraph (a)(26): Reserves should not be assigned to adjacent reservoirs isolated by major, potentially sealing, faults until those reservoirs are penetrated and evaluated as economically producible. Reserves should not be assigned to areas that are clearly separated from a known accumulation by a non-productive reservoir (i.e., absence of reservoir, structurally low reservoir, or negative test results). Such areas may contain prospective resources (i.e., potentially recoverable resources from undiscovered accumulations).

PROVED RESERVES (SEC DEFINITIONS)

Securities and Exchange Commission Regulation S-X §210.4-10(a)(22) defines proved oil and gas reserves as follows:

Proved oil and gas reserves. Proved oil and gas reserves are those quantities of oil and gas, which, by analysis of geoscience and engineering data, can be estimated with reasonable certainty to be economically producible-from a given date forward, from known reservoirs, and under existing economic conditions, operating methods, and government regulations-prior to the time at which contracts providing the right to operate expire, unless evidence indicates that renewal is reasonably certain, regardless of whether deterministic or probabilistic methods are used for the estimation. The project to extract the hydrocarbons must have commenced or the operator must be reasonably certain that it will commence the project within a reasonable time.

- (i) The area of the reservoir considered as proved includes:
 - (A) The area identified by drilling and limited by fluid contacts, if any, and

- (B) Adjacent undrilled portions of the reservoir that can, with reasonable certainty, be judged to be continuous with it and to contain economically producible oil or gas on the basis of available geoscience and engineering data.
- (ii) In the absence of data on fluid contacts, proved quantities in a reservoir are limited by the lowest known hydrocarbons (LKH) as seen in a well penetration unless geoscience, engineering, or performance data and reliable technology establishes a lower contact with reasonable certainty.
- (iii) Where direct observation from well penetrations has defined a highest known oil (HKO) elevation and the potential exists for an associated gas cap, proved oil reserves may be assigned in the structurally higher portions of the reservoir only if geoscience, engineering, or performance data and reliable technology establish the higher contact with reasonable certainty.
- (iv) Reserves which can be produced economically through application of improved recovery techniques (including, but not limited to, fluid injection) are included in the proved classification when:
 - (A) Successful testing by a pilot project in an area of the reservoir with properties no more favorable than in the reservoir as a whole, the operation of an installed program in the reservoir or an analogous reservoir, or other evidence using reliable technology establishes the reasonable certainty of the engineering analysis on which the project or program was based; and
 - (B) The project has been approved for development by all necessary parties and entities, including governmental entities.
- (v) Existing economic conditions include prices and costs at which economic producibility from a reservoir is to be determined. The price shall be the average price during the 12-month period prior to the ending date of the period covered by the report, determined as an unweighted arithmetic average of the first-day-of-the-month price for each month within such period, unless prices are defined by contractual arrangements, excluding escalations based upon future conditions.

PETROLEUM RESERVES STATUS DEFINITIONS AND GUIDELINES

As Adapted From:
RULE 4-10(a) of REGULATION S-X PART 210
UNITED STATES SECURITIES AND EXCHANGE COMMISSION (SEC)

and

2018 PETROLEUM RESOURCES MANAGEMENT SYSTEM (SPE-PRMS)
Sponsored and Approved by:
SOCIETY OF PETROLEUM ENGINEERS (SPE)
WORLD PETROLEUM COUNCIL (WPC)
AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS (AAPG)
SOCIETY OF PETROLEUM EVALUATION ENGINEERS (SPEE)
SOCIETY OF EXPLORATION GEOPHYSICISTS (SEG)
SOCIETY OF PETROPHYSICISTS AND WELL LOG ANALYSTS (SPWLA)
EUROPEAN ASSOCIATION OF GEOSCIENTISTS & ENGINEERS (EAGE)

Reserves status categories define the development and producing status of wells and reservoirs. Reference should be made to Title 17, Code of Federal Regulations, Regulation S-X Part 210, Rule 4-10(a) and the SPE-PRMS as the following reserves status definitions are based on excerpts from the original documents (direct passages excerpted from the aforementioned SEC and SPE-PRMS documents are denoted in italics herein).

DEVELOPED RESERVES (SEC DEFINITIONS)

Securities and Exchange Commission Regulation S-X §210.4-10(a)(6) defines developed oil and gas reserves as follows:

Developed oil and gas reserves are reserves of any category that can be expected to be recovered:

- (i) Through existing wells with existing equipment and operating methods or in which the cost of the required equipment is relatively minor compared to the cost of a new well; and
- (ii) Through installed extraction equipment and infrastructure operational at the time of the reserves estimate if the extraction is by means not involving a well.

Developed Producing (SPE-PRMS Definitions)

While not a requirement for disclosure under the SEC regulations, developed oil and gas reserves may be further sub-classified according to the guidance contained in the SPE-PRMS as Producing or Non-Producing.

Developed Producing Reserves

Developed Producing Reserves are expected quantities to be recovered from completion intervals that are open and producing at the effective date of the estimate.

Improved recovery reserves are considered producing only after the improved recovery project is in operation.

Developed Non-Producing

Developed Non-Producing Reserves include shut-in and behind-pipe Reserves.

Shut-In

Shut-in Reserves are expected to be recovered from:

- (1) completion intervals that are open at the time of the estimate but which have not yet started producing;
- (2) wells which were shut-in for market conditions or pipeline connections; or
- (3) wells not capable of production for mechanical reasons.

Behind-Pipe

Behind-pipe Reserves are expected to be recovered from zones in existing wells that will require additional completion work or future re-completion before start of production with minor cost to access these reserves.

In all cases, production can be initiated or restored with relatively low expenditure compared to the cost of drilling a new well.

UNDEVELOPED RESERVES (SEC DEFINITIONS)

Securities and Exchange Commission Regulation S-X §210.4-10(a)(31) defines undeveloped oil and gas reserves as follows:

Undeveloped oil and gas reserves are reserves of any category that are expected to be recovered from new wells on undrilled acreage, or from existing wells where a relatively major expenditure is required for recompletion.

- (i) Reserves on undrilled acreage shall be limited to those directly offsetting development spacing areas that are reasonably certain of production when drilled, unless evidence using reliable technology exists that establishes reasonable certainty of economic producibility at greater distances.
- (ii) Undrilled locations can be classified as having undeveloped reserves only if a development plan has been adopted indicating that they are scheduled to be drilled within five years, unless the specific circumstances, justify a longer time.
- (iii) Under no circumstances shall estimates for undeveloped reserves be attributable to any acreage for which an application of fluid injection or other improved recovery technique is contemplated, unless such techniques have been proved effective by actual projects in the same reservoir or an analogous reservoir, as defined in paragraph (a)(2) of this section, or by other evidence using reliable technology establishing reasonable certainty.