

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

FORM 10-K

Annual Report Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934
For the fiscal year ended December 31, 2020

or

Transition Report Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934
Commission file number 001-31539

SM ENERGY COMPANY

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of incorporation or organization)

41-0518430

(I.R.S. Employer Identification No.)

1775 Sherman Street, Suite 1200, Denver, Colorado

(Address of principal executive offices)

80203

(Zip Code)

(303) 861-8140

(Registrant's telephone number, including area code)

Securities registered pursuant to Section 12(b) 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 Exchange

Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes No

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes No

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

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

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C.7262(b)) by the registered public accounting firm that prepared or issued its audit report.

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes No

The aggregate market value of the 111,761,892 shares of voting stock held by non-affiliates of the registrant, based upon the closing sale price of the registrant's common stock on June 30, 2020, the last business day of the registrant's most recently completed second fiscal quarter, of \$3.75 per share, as reported on the New York Stock Exchange, was \$419,107,095. Shares of common stock held by each director and executive officer and by each person who owns 10 percent or more of the outstanding common stock or who is otherwise believed by the registrant to be in a control position have been excluded. This determination of affiliate status is not necessarily a conclusive determination for other purposes.

As of February 4, 2021, the registrant had 114,742,304 shares of common stock outstanding.

DOCUMENTS INCORPORATED BY REFERENCE

Certain information required by Items 10, 11, 12, 13, and 14 of Part III of this report is incorporated by reference from portions of the registrant's Definitive Proxy Statement on Schedule 14A relating to its 2021 annual meeting of stockholders, to be filed within 120 days after December 31, 2020.

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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,” “intend,” “pending,” “plan,” “potential,” “project,” “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 future crude oil, natural gas, and natural gas liquids (also referred to throughout this report as “oil,” “gas,” and “NGLs,” respectively) prices, well costs, service costs, lease operating 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 farmout of, 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;
- 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, 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. These statements are subject to known and unknown risks and uncertainties, which may cause our actual results and 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.

We caution you that forward-looking statements are not guarantees of future performance and actual results or performance may be materially different from those expressed or implied in forward-looking statements. 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 of Oil and Gas Terms

The oil and gas 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.

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.

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.

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.

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 of Oil and Gas Terms* 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 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 assets. 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.

Significant Developments in 2020

Pandemic Response. During 2020, the Pandemic and associated macroeconomic events affected supply and demand for oil, gas, and NGLs, and the realized prices we received for our production throughout 2020. Despite continuing negative impacts 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.

The safety of our employees, contractors, and the communities where we work remains our first priority as we continue to operate during the Pandemic. While our core business operations require certain individuals to be physically present at well site locations, substantially all of our office-based employees have continued working remotely in order to limit physical interactions and to mitigate the spread of COVID-19, and will continue to do so well into 2021. For individuals who are unable to perform their jobs remotely, we maintain and continually assess procedures designed to limit the spread of COVID-19, including social distancing and enhanced sanitization measures, 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 (“CDC”) and federal Occupational Safety and Health Act (“OSHA”) guidelines related to the prevention of the transmission of COVID-19. Since these measures were initially implemented in the first quarter of 2020, we have continued to operate without significant disruptions to our business operations. Our pre-existing control environment and internal controls continue to be effective and we continue to address new risks directly related to the Pandemic as we identify them.

Cash Flows and Debt Reduction. We decreased our total outstanding long-term debt principal balance by 18 percent to \$2.3 billion as of December 31, 2020, from \$2.8 billion as of December 31, 2019. This decrease was primarily driven by the Exchange Offers and open market repurchases of certain of our senior notes at a discount, and net cash provided by operating activities of \$790.9 million, which was in excess of net cash used in investing activities of \$555.6 million for the year ended December 31, 2020. Please refer to *Analysis of Cash Flow Changes Between 2020 and 2019 and Between 2019 and 2018* in *Overview of Liquidity and Capital Resources* in 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 Exchange Offers.

Reserves and Capital Investment. Total estimated proved reserves were 404.6 MMBOE as of December 31, 2020, which was a decrease of 12 percent from 462.0 MMBOE as of December 31, 2019. This decrease primarily related to 46.4 MMBOE produced during 2020 and 32.6 MMBOE removed as a result of lower commodity prices experienced in 2020 compared with 2019, using pricing estimates determined in accordance with SEC rules. Our proved reserve life index decreased to 8.7 years as of December 31, 2020, compared with 9.6 years as of December 31, 2019. 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 certain performance revisions. Costs incurred decreased 44 percent from the prior year to \$585.3 million in 2020 in response to lower commodity prices. 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.

Production. Our average net daily production in 2020 was 126.9 MBOE and consisted of 62.9 MBbl of oil, 283.9 MMcf of gas, and 16.7 MBbl of NGLs, which represented a four percent decrease compared with 2019. This decrease was driven by a 21 percent decrease in daily production volumes from our South Texas assets, partially offset by a 10 percent increase in daily production volumes from our Midland Basin assets. During the year ended December 31, 2020, as compared with 2019, net daily production volumes decreased four percent as a result of proactive measures taken to respond to the lower commodity price environment experienced in 2020 compared with 2019. This included voluntary production curtailments and less costs incurred as a result of intentionally reducing the number of new wells completed and brought on production. Oil production as a percentage of total production increased to 50 percent in 2020 from 45 percent in 2019. Please refer to *Areas of Operation* below for additional discussion.

Pricing. Realized prices before the effects of derivative settlements 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 realized prices, oil, gas, and NGL production revenue decreased 29 percent to \$1.1 billion for the year ended December 31, 2020, compared with \$1.6 billion for 2019. Oil production revenue was 76 percent and 75 percent of total production revenue for the years ended December 31, 2020, and 2019, respectively. We recorded a net derivative gain of \$161.6 million for the year ended December 31, 2020, compared to a net derivative loss of \$97.5 million for 2019. These amounts include derivative settlement gains of \$351.3 million and \$39.2 million for the years ended December 31, 2020, and 2019, respectively. Please refer to *Overview of the Company* in Part II, Item 7 of this report for additional discussion.

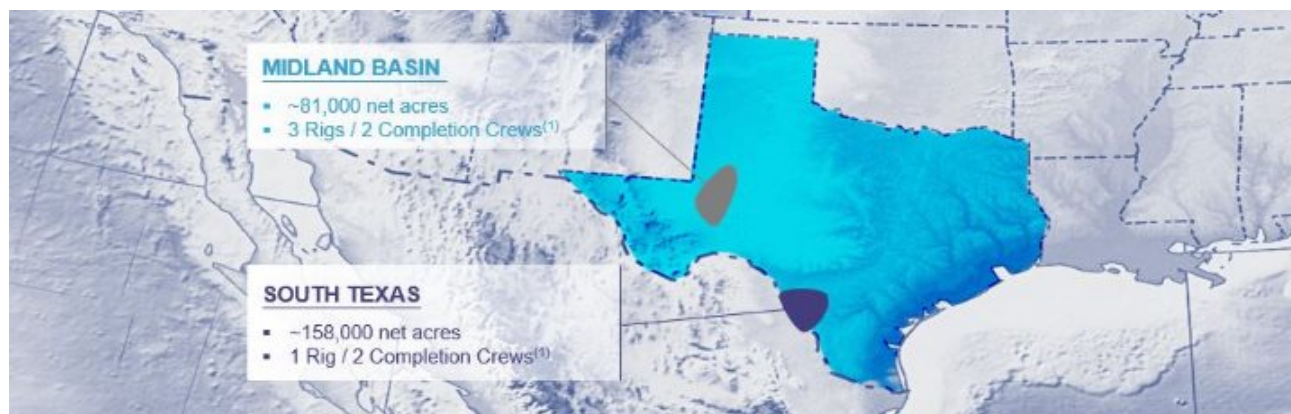
Outlook

Our vision to sustainably grow value for all of our stakeholders includes near-term operational and financial goals of generating positive cash flows while strengthening our balance sheet through absolute debt reduction and improved leverage metrics. 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. We remain committed to exceptional safety, health, and environmental stewardship; supporting the professional development of a diverse and thriving team of employees; making a positive difference in the communities where we live and work; and transparency in reporting on 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 environmental, social and governance policies, programs and initiatives, and reports to our Board of Directors regarding such matters.

We expect to focus our strategy on continuing to improve operating margins and cash flows while strengthening our balance sheet through absolute debt reduction and improved leverage metrics. Our total 2021 capital program is budgeted between \$650.0 million and \$675.0 million, which we expect to fund with cash flows from operations. We expect to focus our 2021 capital program on highly economic oil development projects in both our Midland Basin assets and our South Texas assets. In South Texas, we intend to primarily target the Austin Chalk formation. None of these assets are located on federal lands, and therefore our operations will not be impacted by the recent suspension of the issuance of federal drilling permits.

Please refer to *Overview of Liquidity and Capital Resources* in Part II, Item 7 of this report for discussion of how we expect to fund our 2021 capital program.

Areas of Operation



⁽¹⁾ As of December 31, 2020.

Our 2020 operations were concentrated in the Midland Basin and South Texas, as described below. The following table summarizes estimated proved reserves, production, and costs incurred for the year ended December 31, 2020, for these areas:

	Midland Basin	South Texas	Total ⁽¹⁾
Proved reserves			
Oil (MMBbl)	150.9	21.8	172.7
Gas (Bcf)	425.3	626.8	1,052.0
NGLs (MMBbl)	0.2	56.4	56.6
MMBOE ⁽¹⁾	222.0	182.6	404.6
Relative percentage	55 %	45 %	100 %
Proved developed %	58 %	55 %	57 %
Production			
Oil (MMBbl)	21.3	1.7	23.0
Gas (Bcf)	46.6	57.3	103.9
NGLs (MMBbl)	—	6.1	6.1
MMBOE ⁽¹⁾	29.1	17.3	46.4
Avg. daily equivalents (MBOE/d) ⁽¹⁾	79.5	47.4	126.9
Relative percentage	63 %	37 %	100 %
Costs incurred (in millions) ⁽²⁾⁽³⁾	\$ 470.6	\$ 75.3	\$ 585.3

⁽¹⁾ Amounts may not calculate due to rounding.

⁽²⁾ 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.

⁽³⁾ Costs incurred for 2020 included \$16.4 million related to acquisitions of primarily unproved oil and gas properties in the Midland Basin. Please refer to *Costs Incurred* in *Supplemental Oil and Gas Information (unaudited)* in Part II, Item 8 of this report.

Total estimated proved reserves at year end 2020 decreased 12 percent from year end 2019. Production decreased four percent on an equivalent basis for the year ended December 31, 2020, compared with 2019. Costs incurred decreased in 2020 by 44 percent compared with 2019 primarily due to the decrease in our capital activity, increased operational efficiencies, and lower service provider costs.

Midland Basin. Our Midland Basin assets are comprised of approximately 81,000 net acres located in the Permian Basin in West Texas (“Midland Basin”). In 2020, drilling and completion activities within our RockStar and Sweetie Peck positions in the Midland Basin continued to focus primarily on delineating, developing, and expanding 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 2021 capital activity in the Midland Basin to be focused on highly economic oil development projects.

In 2020, we incurred \$470.6 million of costs and averaged four drilling rigs and two completion crews. The majority of our Midland Basin capital was deployed on projects targeting the Spraberry and Wolfcamp formations on our RockStar assets in Howard and Martin Counties, Texas and Sweetie Peck assets in Upton and Midland Counties, Texas. We completed 80 gross (73 net) wells and full-year production increased 11 percent year-over-year to 29.1 MMBOE for 2020. As of December 31, 2020, 66 gross (58 net) wells had been drilled but not completed in our Midland Basin program. Estimated proved reserves decreased five percent to 222.0 MMBOE at year end 2020, from 234.1 MMBOE at year end 2019, as a result of 29.1 MMBOE produced during 2020, and the impacts of development plan changes and decreased commodity pricing. During 2020, we had downward reserve revisions of 28.6 MMBOE, of which 21.5 MMBOE resulted from the removal of certain longer term proved undeveloped reserves that are no longer within our development plan over the next five years, and 7.1 MMBOE resulted from decreased commodity pricing. These revisions were offset by additions of 45.5 MMBOE, of which 36.8 MMBOE resulted from infill, extensions, and discoveries and 8.7 MMBOE resulted from positive performance revisions.

South Texas. Our South Texas assets are comprised of approximately 158,000 net acres located in Dimmit and Webb Counties, Texas (“South Texas”). Our current operations in South Texas are focused on production from the Eagle Ford shale formation and further development of the Austin Chalk formation. 2021 capital activity in South Texas is expected to be concentrated on the Austin Chalk formation given the higher liquids content of production and favorable economics. 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.

In 2020, we incurred \$75.3 million of costs, averaged one drilling rig, and operated one completion crew at times during the year. We completed 4 gross (4 net) wells during 2020, and full-year production decreased 21 percent year-over-year to 17.3 MMBOE for 2020, from 22.0 MMBOE for 2019. While natural decline and deferral of activity led to a decrease in total production volumes, oil production volumes increased 28 percent year-over-year as a result of the higher liquids content from our Austin Chalk completions. As of December 31, 2020, 31 gross (28 net) wells had been drilled but not completed in our South Texas program. Estimated proved reserves decreased 20 percent to 182.6 MMBOE at year end 2020, from 227.8 MMBOE at year end 2019, as a result of 17.3 MMBOE produced during 2020, and the impacts of development changes and decreased commodity prices. During 2020, we had downward reserves revisions of 77.1 MMBOE, of which 43.5 MMBOE resulted from the removal of certain longer term proved undeveloped reserves, 25.5 MMBOE resulted from decreased commodity pricing, 5.1 MMBOE resulted from performance revisions, and 3.0 MMBOE resulted from divestitures. These revisions were partially offset by additions of 49.3 MMBOE of estimated proved reserves from discoveries, extensions and infills.

Office Space. As of December 31, 2020, we leased and owned office space as summarized in the table below:

	Approximate Square Footage Leased	Approximate Square Footage Owned
Corporate	107,000	—
Midland Basin	59,000	—
South Texas	62,000	12,000
Total	228,000	12,000

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 pre-tax 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 of Oil and Gas Terms* 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, 2020, 2019, and 2018:

	As of December 31,		
	2020	2019	2018
Reserve data:			
Proved developed			
Oil (MMBbl)	89.8	85.0	68.2
Gas (Bcf)	643.9	712.1	699.1
NGLs (MMBbl)	32.1	43.4	60.1
MMBOE ⁽¹⁾	229.3	247.0	244.8
Proved undeveloped			
Oil (MMBbl)	82.9	99.1	107.6
Gas (Bcf)	408.1	511.1	622.7
NGLs (MMBbl)	24.4	30.6	47.2
MMBOE ⁽¹⁾	175.3	214.9	258.6
Total proved ⁽¹⁾			
Oil (MMBbl)	172.7	184.1	175.7
Gas (Bcf) ⁽²⁾	1,052.0	1,223.2	1,321.8
NGLs (MMBbl)	56.6	74.0	107.4
MMBOE	404.6	462.0	503.4
Proved developed reserves %	57 %	53 %	49 %
Proved undeveloped reserves %	43 %	47 %	51 %
Reserve data (in millions):			
Standardized measure of discounted future net cash flows (GAAP)	\$ 2,682.5	\$ 4,104.0	\$ 4,654.4
PV-10 (non-GAAP):			
Proved developed PV-10	\$ 1,848.8	\$ 2,830.4	\$ 3,084.2
Proved undeveloped PV-10	833.7	1,532.4	2,020.1
Total proved PV-10 (non-GAAP)	\$ 2,682.5	\$ 4,362.8	\$ 5,104.3
12-month trailing average prices ⁽³⁾			
Oil (per Bbl)	\$ 39.57	\$ 55.69	\$ 65.56
Gas (per MMBtu)	\$ 1.99	\$ 2.58	\$ 3.10
NGLs (per Bbl)	\$ 17.64	\$ 22.68	\$ 33.45
Reserve life index (years) ⁽⁴⁾	8.7	9.6	11.5

⁽¹⁾ Amounts may not calculate due to rounding.

⁽²⁾ For the years ended December 31, 2020, 2019, and 2018, proved gas reserves contained 38.4 Bcf, 44.9 Bcf, and 59.1 Bcf of gas, respectively, that we expect to produce and use as a field equipment fuel source (primarily to power compressors).

⁽³⁾ 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 reserves.

⁽⁴⁾ 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 of Oil and Gas Terms* 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 of Oil and Gas Terms* section of this report for the definitions of standardized measure of discounted future net cash flows and PV-10.

	As of December 31,		
	2020	2019	2018
	(in millions)		
Standardized measure of discounted future net cash flows (GAAP)	\$ 2,682.5	\$ 4,104.0	\$ 4,654.4
Add: 10 percent annual discount, net of income taxes	1,856.3	2,955.3	3,847.1
Add: future undiscounted income taxes	—	579.8	1,012.2
Pre-tax undiscounted future net cash flows	4,538.8	7,639.1	9,513.7
Less: 10 percent annual discount without tax effect	(1,856.3)	(3,276.3)	(4,409.4)
PV-10 (non-GAAP)	<u>\$ 2,682.5</u>	<u>\$ 4,362.8</u>	<u>\$ 5,104.3</u>

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 production 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, 2020, 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 175.3 MMBOE of total proved undeveloped reserves as of December 31, 2020, approximately 36.8 MMBOE of proved undeveloped reserves in the Midland Basin and 64.5 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, 2020, estimated proved undeveloped reserves decreased 39.6 MMBOE, or 18 percent compared with December 31, 2019. The following table provides a reconciliation of our proved undeveloped reserves for the year ended December 31, 2020:

	Total (MMBOE)
Total proved undeveloped reserves:	
Beginning of year	214.9
Additions from extensions, discoveries, and infill	74.8
Removed for five-year rule	(65.0)
Conversions to proved developed	(33.2)
Revisions of previous estimates	(13.5)
Sales of reserves	(3.0)
Purchases of minerals in place	0.3
End of year	<u>175.3</u>

Additions from extensions, discoveries, and infill. We added 8.1 MMBOE and 32.7 MMBOE of estimated proved undeveloped reserves in the Midland Basin and South Texas, respectively, through various extensions and discoveries in 2020. We added an additional 23.1 MMBOE and 10.9 MMBOE of infill estimated proved undeveloped reserves in our Midland Basin and South Texas assets, respectively. The majority of additions in our Midland Basin program resulted from future development projects identified by our

on-going development and portfolio optimization activities. The majority of additions in our South Texas program resulted from our efforts to further develop the Austin Chalk formation.

Removed for five-year rule. As a result of our testing and delineation efforts in 2020, we revised certain aspects of our future development plans to focus on maximizing returns and the value of our assets. As a result, we removed 65.0 MMBOE of estimated proved undeveloped reserves and reclassified these locations to unproved reserve categories, of which 43.5 MMBOE related to our Eagle Ford shale proved undeveloped reserves that reflects our shift to further develop the Austin Chalk formation and 21.5 MMBOE related to slowing the pace of our future development plan in our Midland Basin program to align spending with operating cash flow. The Eagle Ford shale future development locations were replaced by Austin Chalk locations which are reflected as additions from extensions, discoveries, and infill.

Conversions to proved developed. Our 2020 conversion rate was 15 percent primarily due to our drilling and completion activity on our Austin Chalk locations that were not classified as proved reserves as of year end 2019. During 2020, we incurred \$357.9 million on projects with reserves booked as proved undeveloped at the end of 2019, of which \$271.9 million was spent on converting proved undeveloped reserves to proved developed reserves by December 31, 2020. At December 31, 2020, drilled but not completed wells represented 46.4 MMBOE of total estimated proved undeveloped reserves. We expect to incur \$220.2 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.

Revisions of previous estimates. Revisions of previous estimates includes downward pricing revisions of 12.1 MMBOE as a result of lower commodity pricing. In addition, we had downward performance revisions of 1.4 MMBOE.

As of December 31, 2020, estimated future development costs relating to our proved undeveloped reserves totaled \$1.1 billion, and we expect to incur approximately \$399.5 million, \$245.0 million, and \$239.8 million in 2021, 2022, and 2023, 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 is 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 2020 Ryder Scott report concerning our reserves 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,		
	2020	2019	2018
Net production volumes			
Oil (MMBbl)	23.0	21.9	18.8
Gas (Bcf)	103.9	109.8	103.2
NGLs (MMBbl)	6.1	8.1	7.9
Equivalent (MMBOE) ⁽¹⁾	46.4	48.3	43.9
Midland Basin net production volumes ⁽²⁾			
Oil (MMBbl)	21.3	20.5	16.6
Gas (Bcf)	46.6	34.4	25.8
NGLs (MMBbl)	—	—	—
Equivalent (MMBOE) ⁽¹⁾	29.1	26.3	20.9
Maverick Basin net production volumes ⁽²⁾			
Oil (MMBbl)	1.7	1.3	1.2
Gas (Bcf)	57.2	75.4	76.1
NGLs (MMBbl)	6.1	8.1	7.9
Equivalent (MMBOE) ⁽¹⁾	17.3	21.9	21.8
Realized price, before the effect of derivative settlements			
Oil (per Bbl)	\$ 37.08	\$ 54.10	\$ 56.80
Gas (per Mcf)	\$ 1.80	\$ 2.39	\$ 3.43
NGLs (per Bbl)	\$ 13.96	\$ 17.26	\$ 27.22
Per BOE	\$ 24.26	\$ 32.84	\$ 37.27
Production expense per BOE			
Lease operating expense	\$ 3.97	\$ 4.67	\$ 4.74
Transportation costs	\$ 3.06	\$ 3.88	\$ 4.36
Production taxes	\$ 0.99	\$ 1.35	\$ 1.52
Ad valorem tax expense	\$ 0.41	\$ 0.48	\$ 0.48

⁽¹⁾ Amounts may not calculate due to rounding.

⁽²⁾ For each of the years ended December 31, 2020, 2019, and 2018, 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.

Productive Wells

As of December 31, 2020, we had working interests in 801 gross (720 net) productive oil wells and 498 gross (468 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, 2020, 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.

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 2020, 2019, and 2018, 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,					
	2020		2019		2018	
	Gross	Net	Gross	Net	Gross	Net
Development wells						
Oil	78	71	119	107	103	92
Gas	—	—	27	16	39	24
Non-productive	—	—	1	1	—	—
	<u>78</u>	<u>71</u>	<u>147</u>	<u>124</u>	<u>142</u>	<u>116</u>
Exploratory wells						
Oil	5	5	4	4	18	14
Gas	1	1	4	4	1	1
Non-productive	—	—	1	1	—	—
	<u>6</u>	<u>6</u>	<u>9</u>	<u>9</u>	<u>19</u>	<u>15</u>
Total	<u>84</u>	<u>77</u>	<u>156</u>	<u>133</u>	<u>161</u>	<u>131</u>

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 2020 (included in the table above), we were actively participating in the drilling of 6 gross (5 net) wells and had 105 gross (93 net) drilled but not completed wells as of January 31, 2021. Drilled but not completed wells as of January 31, 2021, represent wells that were being completed or were waiting on completion. The drilled but not completed well count as of January 31, 2021, includes 13 gross (13 net) wells that are not included in our five-year development plan, 12 of which are in the Eagle Ford shale.

Title to Properties

Over 97 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, 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, 2020. Undeveloped acreage includes leasehold interests containing proved undeveloped reserves.

	Developed Acres ⁽¹⁾		Undeveloped Acres ⁽²⁾⁽³⁾		Total	
	Gross	Net	Gross	Net	Gross	Net
Midland Basin:						
RockStar	67,475	61,376	3,258	2,898	70,733	64,274
Sweetie Peck	19,226	15,958	2,401	342	21,627	16,300
Midland Basin Total ⁽⁴⁾	86,701	77,334	5,659	3,240	92,360	80,574
South Texas	80,506	80,215	80,896	77,809	161,402	158,024
Other ⁽⁵⁾	16,259	11,363	89,691	25,306	105,950	36,669
Total	183,466	168,912	176,246	106,355	359,712	275,267

- (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.
- (3) As of February 4, 2021, approximately 16, 119, and 45 net acres of undeveloped acreage are scheduled to expire by December 31, 2021, 2022, and 2023, respectively, if production is not established or we take no 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.
- (4) As of December 31, 2020, total Midland Basin acreage excludes approximately 1,726 net acres associated with drill-to-earn opportunities that we intend to pursue.
- (5) Includes other non-core acreage located in 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, 2020, 2019, and 2018, 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

We believe that our relationship with our employees is strong. As of February 4, 2021, we had 503 full-time employees, none of whom were subject to a collective bargaining agreement.

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 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. 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. 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.

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 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 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, 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 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 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 spacing 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 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 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 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. Although we believe we have utilized operating and waste disposal practices that were standard in the industry at the time, hazardous substances, wastes, or hydrocarbons 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. 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 regulate emissions of various air pollutants through air emissions permitting programs and the imposition of other requirements, such as requirements for emission 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.

Climate change. In December 2009, the EPA determined that emissions of carbon dioxide, methane, and other “greenhouse gases” (“GHG”) present an endangerment to public health and the environment because emissions of such gases are, according to the EPA, contributing to warming of the earth’s atmosphere and other climatic changes. Based on these findings, the EPA began adopting and implementing a comprehensive suite of regulations to restrict emissions of GHGs under existing provisions of the CAA. While the Trump administration had taken steps to rescind or review many of these regulations, the Biden administration has ordered a review of agency actions taken under the Trump administration, specifically targeting, among other things, the Trump administration’s actions on 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 addition to the effects of regulation, the meteorological effects of global climate change could pose additional risks to our operations, including physical damage risks associated with more frequent, more intensive storms and flooding, 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 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. 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 on our progress in these areas. We set annual goals for our environmental, health and safety 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. 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 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 2020 and Reserves* in Part I, Items 1 and 2, *Comparison of Financial Results and Trends Between 2020 and 2019 and Between 2019 and 2018* in Part II, Item 7, and *Note 1 – Summary of Significant Accounting Policies, Note 11 – 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;
- actual or perceived epidemic or pandemic risks;
- strengthening and weakening of the United States dollar relative to other currencies;
- 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 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 economies around the world, including the oil, gas and NGL industry in which we operate. The rapid spread of the virus has led to the implementation of various responses, including federal, state and local government-imposed quarantines, shelter-in-place recommendations and mandates, sweeping restrictions on travel, and other public health and safety measures, nearly all of which have materially reduced global demand for crude oil and could continue to result in decreased demand for our oil, gas, and NGL production. The extent to which the Pandemic will continue to affect our business, financial condition, liquidity, results of operations, prospects, and the demand for our production will depend on future developments, which are highly uncertain and cannot be predicted with confidence, including the duration or any recurrence of the outbreak and responsive measures, additional or modified government actions, new information which may emerge concerning the severity of the Pandemic, and the effectiveness of actions taken to contain COVID-19 or treat its impact, such as vaccine or other treatment protocol, now or in the future, among others. 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.

In the last decade, 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, 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; and

- variable interest rate spread levels, including for London Interbank Offered Rate (“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 our prior acquisitions, as well as any 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.

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, 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 as a result of 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.

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, and institutional and individual investors who seek oil and gas investments throughout the world, as well as for the 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 key personnel could adversely affect our business.

We depend to a large extent on the efforts and continued employment of our executive management team and other key personnel. 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.

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, 2020, 43 percent, or 175.3 MMBOE, of our estimated proved reserves were proved undeveloped. In order to develop our proved undeveloped reserves, as of December 31, 2020, we estimate approximately \$1.1 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, 2020, 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 be used 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 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;
- governmental permitting delays;
- 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 4, 2020, 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, 2020. 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 during completion operations, the inability to recover such tools and other equipment, and the inability to successfully clean out 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, 2020, we were contractually committed to deliver a minimum of 16 MMBbl of oil and 257 Bcf of gas through 2024, and 17 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. Recent 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 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.

Furthermore, if we experience any of the problems with well stimulation and completion activities referenced above, our ability to explore for and produce oil, gas, or 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 petroleum hydrocarbons and other 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, development, or acquisitions, or cause us to incur losses.

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 may be adversely affected by the impact of extreme weather conditions and lease stipulations designed to protect various wildlife or plant species. 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. Wildlife seasonal restrictions may limit access to federal leases or across federal lands. 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 state or local laws, or the implementation of new regulations regarding hydraulic fracturing 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.

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 (“NESHAP”) programs, and ozone standards, 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 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.

In December 2009, the EPA made a finding that emissions of carbon dioxide, methane, and other GHGs endanger public health and the environment. 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 almost one-half of the 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 eventually result in requirements for methane emission reductions from existing oil and gas equipment, 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.

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 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.

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.

In 2020, Moody’s Investor Services, Standard & Poor’s, and Fitch Ratings, Inc. downgraded our credit ratings. Further downgrades to our credit rating levels could have material adverse consequences on our business and future prospects and could:

- limit our ability to access debt 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 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 further 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, and swap arrangements for gas and NGLs. Please refer to *Note 10 – Derivative Financial Instruments* in Part II, Item 8 of this report for additional detail regarding our commodity derivative contracts. 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.

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 costs of exploratory and development wells are capitalized when incurred, pending the determination of whether proved reserves have been discovered. If commercial quantities of hydrocarbons are not discovered with an exploratory well, the costs of drilling the well are expensed.

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, 2020, 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 scheduled borrowing base redetermination date is scheduled for April 1, 2021. 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, 2020, we had \$2.2 billion of outstanding aggregate principal amount of Senior Notes with maturities through 2027, as further discussed and defined in *Note 5 – Long-Term Debt* in Part II, Item 8 of this report. Additionally, we had \$93.0 million of outstanding borrowings under our Credit Agreement and \$965.0 million of available borrowing capacity under our secured revolving credit facility as of December 31, 2020. Our long-term debt represented 53 percent of our total book capitalization as of December 31, 2020.

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 productive 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 our business by, among other things, limiting our ability to take advantage of financings, mergers and acquisitions, and other corporate opportunities. We were in compliance with all financial and non-financial covenants as of December 31, 2020, and through the filing of this report.

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, 2020, to February 4, 2021, the intraday trading prices per share of our common stock as reported by the New York Stock Exchange ranged from a low of \$0.90 per share in March 2020 to a high of \$12.40 per share in January 2020. 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;
- 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 increasing, 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.

The depressed price of our common stock and market capitalization, resulting from the current macroeconomic environment and historically low commodity prices, could cause the Company to be subject to an unsolicited or hostile acquisition bid, which could result in substantial costs and diversion of management attention.

Due to the constrained macroeconomic environment and depressed commodity prices, the price of our common stock and our market capitalization have been volatile, and reached historic lows in 2020. A relatively low stock price may cause us to become subject to an unsolicited or hostile acquisition bid, or other change in control. There can be no assurance that a third-party will not make an unsolicited takeover proposal in the future or take other action to acquire control of us or to otherwise influence our management and policies. Although we have certain anti-takeover measures in place, we have not adopted a shareholder rights plan, commonly known as a poison pill. The lack of this particular anti-takeover measure could make a change in control of us easier to accomplish.

Considering and responding to any future acquisition proposal or other stockholder action designed to acquire control, including the litigation that often accompanies such actions, is likely to be costly and time-consuming. Evaluating and addressing these overtures would require the time and attention of our management and Board of Directors, divert them from their focus on our business, and require us to incur additional expenses on outside legal, financial and other advisors, all of which could materially and adversely affect our business, financial condition and results of operations. Further, in the event that such an unsolicited or hostile bid is publicly disclosed, it may result in increased speculation and volatility in the price of our common stock.

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. In 2020, our Board of Directors reduced the semi-annual dividend from our historical rate of \$0.05 per share to \$0.01 per share and, in the future, may further reduce the semi-annual dividend 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, 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.

Chieftain Royalty Company v. SM Energy Company, Case No. CIV-18-1225-J, In the United States District Court, Western District of Oklahoma. On January 27, 2011, Chieftain Royalty Company ("Plaintiff") commenced a putative class action lawsuit against the Company by filing a Petition in the District Court of Beaver County, Oklahoma, in the matter originally styled Chieftain Royalty Company v. SM Energy Company (including predecessors, successors and affiliates), Case No. CJ-2011-04, alleging that the Company had improperly deducted post-production costs from royalty payments due on production from wells located throughout Oklahoma, and asserting claims against the Company for breach of contract, tortious breach of contract, breach of fiduciary or quasi-fiduciary duty, fraud (actual and constructive), deceit, conversion and conspiracy. The Company removed the case to the United States District Court for the Western District of Oklahoma.

This case involves complex legal and factual issues and uncertainties as to Oklahoma law and federal law concerning class certification under the circumstances of this case. While the Company believes that it has properly paid royalties under Oklahoma law and that the class as proposed by Plaintiff should not be certified, the Company and the Plaintiff entered into an agreement on January 8, 2021, that, if finally approved by the Court, will resolve all of the issues in, and bring an end to, the litigation. In the event the settlement is not approved for any reason, the Company has and will continue to vigorously defend this case.

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 concerns the Acquisition and Development Funding Agreement dated August 2, 2016 (together with its amendments, the "ADFA"). The parties to the ADFA (and its amendments) are 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 are the plaintiffs, and the Company is the defendant.

SPM alleges that the Company breached the ADFA in connection with the Company's agreement to sell its interests in the Powder River Basin (collectively, the "Company Interests") to a third party ("Buyer"). SPM alleges that pursuant to the ADFA, SPM was entitled to sell its related wellbore interests to Buyer on the same terms and conditions that the Company Interests were to be sold, through a "tag-along" process. SPM alleges that the Company failed to honor the tag-along provisions of the ADFA. The Lawsuit further alleges that the Company fraudulently induced SPM to enter an amendment to the ADFA in connection with its sale. SPM brings claims for rescission, fraud, breach of contract, unjust enrichment, breach of good faith and fair dealing, and declaratory judgment. SPM has not specified the damages it seeks in its pleadings, except to state that they are more than \$1,000,000.

The Company has asserted affirmative defenses and counterclaims, alleging in part that: (1) SPM has breached the ADFA by filing an action for rescission, when any rescission remedy is expressly barred by the ADFA; and (2) the Company is entitled to a declaration that the Company has complied with the ADFA; and (3) SPM's tag-along rights under the ADFA expired.

The case is in discovery, and trial was scheduled for June 22, 2020, but continued as a result of the Pandemic. The parties have filed a joint motion seeking a trial date in late 2021 or early 2022. The Company believes it has complied with the terms of the ADFA, intends to vigorously defend against SPM's claims, and intends to vigorously prosecute its own claims.

ITEM 4. MINE SAFETY DISCLOSURES

These disclosures are not applicable to us.

PART II

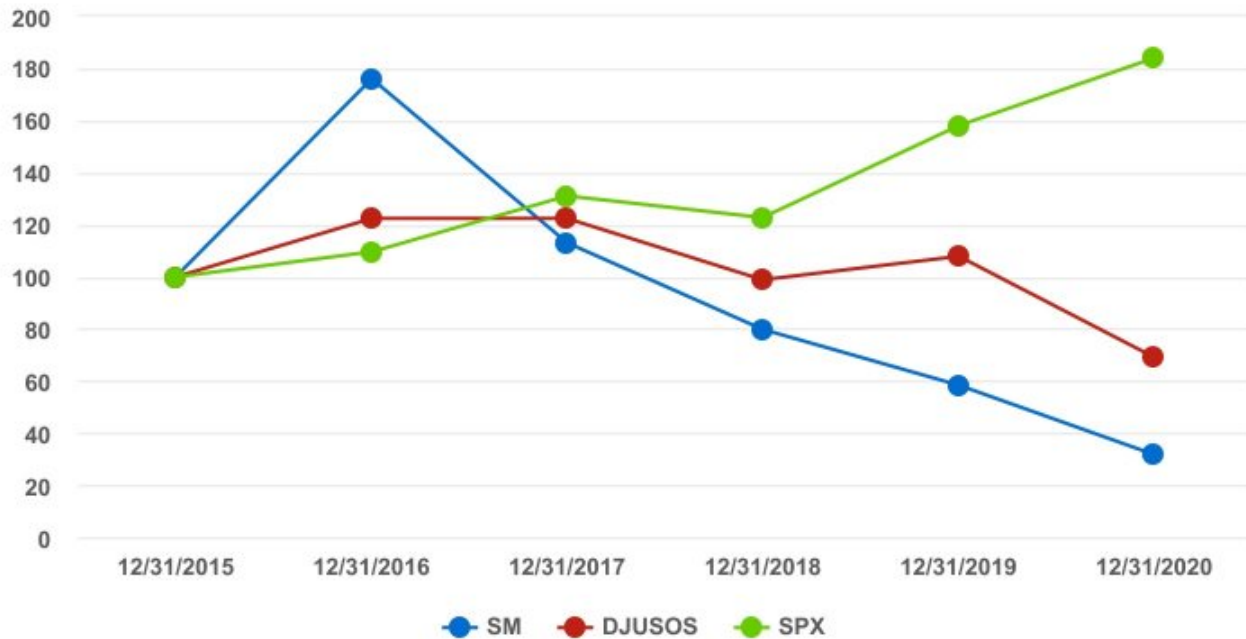
ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS, AND ISSUER PURCHASES OF EQUITY SECURITIES

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* in 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, 2015, and ending December 31, 2020, 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 4, 2021, the number of record holders of our common stock was 101. 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, 2020, 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⁾	Weighted Average Price 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 2020	341	\$ 9.07	—	3,072,184
Second quarter of 2020	—	\$ —	—	3,072,184
Third quarter of 2020	424,236	\$ 3.67	—	3,072,184
10/01/2020 - 10/31/2020	—	—	—	3,072,184
11/01/2020 - 11/30/2020	—	—	—	3,072,184
12/01/2020 - 12/31/2020	47	\$ 6.67	—	3,072,184
Total	424,624	\$ 3.67	—	3,072,184

⁽¹⁾ All shares purchased by us in 2020 were to offset tax withholding obligations that occurred upon the delivery of outstanding shares underlying Restricted Stock Units (“RSUs”) and Performance Share Units (“PSUs”) issued under the terms of award agreements granted under the Equity Plan.

⁽²⁾ 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 2020, we did not repurchase any shares of our common stock pursuant to this Board of Director’s approval.

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 assets. 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.

The Pandemic and associated macroeconomic events have had a significant impact on supply and demand for oil, gas, and NGLs, and affected the realized prices we received for our production throughout 2020. These impacts continue to be unpredictable, and given the dynamic nature of the Pandemic, we are unable to reasonably estimate the period of time that the related market conditions will exist or the extent to which they will continue to impact our business, results of operations, and financial condition, or the timing of any further recovery. Future infection rate surges or outbreaks could have further negative impacts, and as a result, we may be required to adjust our business plan. For additional detail, please refer to *Risk Factors* in Part I, Item 1A of this report.

The safety of our employees, contractors, and the communities where we work remains our first priority as we continue to operate during the Pandemic. While our core business operations require certain individuals to be physically present at well site locations, substantially all of our office-based employees have continued working remotely in order to limit physical interactions and to mitigate the spread of COVID-19, and will continue to do so well into 2021. For individuals who are unable to perform their jobs remotely, we maintain and continually assess procedures designed to limit the spread of COVID-19, including social distancing and enhanced sanitization measures, 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 CDC and OSHA guidelines related to the prevention of the transmission of COVID-19. Since these measures were initially implemented in the first quarter of 2020, we have continued to operate without significant disruptions to our business operations. Our pre-existing control environment and internal controls continue to be effective and we continue to address new risks directly related to the Pandemic as we identify them.

Despite continuing negative impacts 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. Our financial risk management program significantly reduced the impact of substantially lower oil prices in 2020, and as a result of this program, we recorded a net oil derivative settlement gain of \$14.40 per barrel for the year ended December 31, 2020. Our realized oil price before the effects of derivative settlements was \$37.08 per barrel for the year ended December 31, 2020. In response to the economic environment during 2020, we renegotiated certain contracts resulting in realized and future cost savings that directly support our objective of maximizing cash flows. As a result of these cost saving measures and improving operational efficiencies, average well costs for 2020 were lower than our preliminary expectations for the year. We entered 2020 with a total capital program budget between \$825 million and \$850 million. However, given the impacts of the Pandemic and the related circumstances discussed above, we reduced our 2020 capital program by more than 25 percent. Please refer to the caption *Costs Incurred* below for additional discussion.

Our vision to sustainably grow value for all of our stakeholders includes near-term operational and financial goals of generating positive cash flows while strengthening our balance sheet through absolute debt reduction and improved leverage metrics. 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. We remain committed to exceptional safety, health, and environmental stewardship; supporting the professional development of a diverse and thriving team of employees; making a positive difference in the communities where we live and work; and transparency in reporting on 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 environmental, social and governance policies, programs and initiatives, and reports to our Board of Directors regarding such matters. Further demonstrating our commitment to sustainable operations, compensation for our executives and employees under our short-term and long-term incentive plans is calculated based on metrics that include environmental, health, and safety measures. Please refer to our Definitive Proxy Statement on Schedule 14A for the 2021 annual meeting of stockholders to be filed within 120 days from December 31, 2020, for additional discussion.

2020 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 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 improving leverage metrics and maintaining strong financial flexibility.

The financial results and operational activities discussed throughout this report reflect the impacts of the Pandemic during 2020, and the misalignment of supply and demand caused by competition among oil producing nations for crude oil market share during the first half of 2020. We will continue to monitor the macroeconomic environment and maintain flexibility to adjust our financial and operational plans as warranted.

Financial and Operational Results. Average net daily production for the year ended December 31, 2020, was 126.9 MBOE, compared with 132.3 MBOE for 2019. This decrease was primarily driven by a 21 percent decrease in daily production volumes from our South Texas assets, partially offset by a 10 percent increase in daily production volumes from our Midland Basin assets. During the year ended December 31, 2020, as compared with 2019, net daily production volumes decreased four percent as a result of proactive measures taken to respond to the lower commodity price environment experienced in 2020 compared with 2019. This included voluntary production curtailments and less costs incurred as a result of intentionally reducing the number of new wells completed and brought on production. Realized prices before the effects of derivative settlements 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 realized prices, oil, gas, and NGL production revenue decreased 29 percent to \$1.1 billion for the year ended December 31, 2020, compared with \$1.6 billion for 2019. We recorded a net derivative gain of \$161.6 million for the year ended December 31, 2020, compared to a net derivative loss of \$97.5 million for 2019. These amounts include derivative settlement gains of \$351.3 million and \$39.2 million for the years ended December 31, 2020, and 2019, respectively. Overall financial and operational activities during the year ended December 31, 2020, resulted in the following:

- a net loss of \$764.6 million, or \$6.72 per diluted share, for the year ended December 31, 2020, compared with a net loss of \$187.0 million, or \$1.66 per diluted share, for 2019. The net loss for the year ended December 31, 2020, was primarily driven by impairment expense of \$1.0 billion, partially offset by a net gain on extinguishment of debt of \$280.1 million, and a net derivative gain of \$161.6 million. Please refer to *Comparison of Financial Results and Trends Between 2020 and 2019 and Between 2019 and 2018* below for additional discussion regarding the components of net income (loss) for each period presented;
- a \$492.1 million decrease in the principal balance of our total outstanding long-term debt from December 31, 2019, to December 31, 2020, primarily driven by the Exchange Offers and open market repurchases of certain of our senior notes at a discount and net cash provided by operating activities of \$790.9 million for the year ended December 31, 2020, which was in excess of net cash used in investing activities of \$555.6 million for the year ended December 31, 2020. Please refer to *Analysis of Cash Flow Changes Between 2020 and 2019 and Between 2019 and 2018* and to *Note 5 – Long-Term Debt* in Part II, Item 8 of this report below for additional discussion including the definition of Exchange Offers;
- adjusted EBITDAX, a non-GAAP financial measure, for the year ended December 31, 2020, of \$975.4 million, compared with \$993.4 million for 2019, primarily resulted from decreased revenue resulting from depressed commodity prices during the year ended December 31, 2020, largely offset by increased derivative settlement gains, combined with lower operating costs during 2020. Please refer to *Non-GAAP Financial Measures* below for additional discussion, including our definition of adjusted EBITDAX and reconciliations to our net income (loss) and net cash provided by operating activities; and
- total estimated proved reserves as of December 31, 2020, decreased 12 percent from December 31, 2019, to 404.6 MMBOE, of which, 57 percent were liquids (oil and NGLs) and 57 percent were characterized as proved developed. The decrease in total proved reserves primarily related to 46.4 MMBOE produced during 2020 and 32.6 MMBOE removed as a result of lower commodity prices experienced in 2020 compared with 2019, using pricing estimates determined in accordance with SEC rules. Our proved reserve life index decreased to 8.7 years as of December 31, 2020, compared with 9.6 years as of December 31, 2019. 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 \$2.7 billion as of December 31, 2020, compared with \$4.1 billion as of December 31, 2019, which was a decrease of 35 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. The performance of the RockStar area of our Midland Basin position continues to exceed our pre-acquisition expectations and was key to driving significant growth in our operating margin and cash flows from operations in 2020 due to the high percentage of oil that wells in this area produce. Our operational execution and development strategy in this area have resulted in strong well performance due to enhanced completion designs and our ability to drill long laterals given the increasingly contiguous nature of our acreage position as a result of successful infill leasing and acreage trades. Efficiency and optimization in completions and operations continued in 2020. 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, and strong partnerships with our key service providers allowed us to maintain continuity of operations during the lower commodity price environment and the Pandemic.

Our Midland Basin program averaged four drilling rigs and two completion crews during 2020. We completed 80 gross (73 net) operated wells during 2020 and increased production volumes year-over-year by 11 percent to 29.1 MMBOE, 73 percent of which

was oil production. 80 percent of our total 2020 costs incurred related to our Midland Basin program. Drilling and completion activities within our RockStar and Sweetie Peck positions in the Midland Basin continue to focus primarily on delineating and developing the Spraberry and Wolfcamp formations.

Our South Texas program averaged one drilling rig and operated one completion crew at times during 2020. We completed 4 gross (4 net) wells during 2020. Total production for 2020 was 17.3 MMBOE, a 21 percent decrease from 2019. 13 percent of our total 2020 costs incurred related to our South Texas program. Drilling and completion activities in South Texas during 2020 primarily focused on delineating and 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, 2020:

	Midland Basin		South Texas		Total	
	Gross	Net	Gross	Net	Gross	Net
Wells drilled but not completed at December 31, 2019	51	48	21	21	72	69
Wells drilled	95	84	14	14	109	98
Wells completed	(80)	(73)	(4)	(4)	(84)	(77)
Other ⁽¹⁾	—	(1)	—	(3)	—	(4)
Wells drilled but not completed at December 31, 2020	66	58	31	28	97	86

⁽¹⁾ 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, farmouts, and other activities.

⁽²⁾ The South Texas drilled but not completed well count as of December 31, 2020, includes 13 gross (13 net) wells that are not included in our five-year development plan, 12 of which are 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, 2020	
	(in millions)	
Development costs	\$	490.9
Exploration costs		77.9
Acquisitions		
Proved properties		5.6
Unproved properties		10.9
Total, including asset retirement obligations ⁽¹⁾	\$	585.3

Note: Total may not calculate due to rounding.

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

The majority of our development and exploration costs were incurred in our Midland Basin and South Texas programs for the year ended December 31, 2020. Of these costs, \$454.5 million was incurred in the development of our Midland Basin assets, which resulted in 84 net wells drilled and 73 net wells completed, while \$75.0 million was incurred in the development of our South Texas assets, which resulted in 14 net wells drilled and 4 net wells completed. Costs incurred for acquisitions during the year related to transactions in the Midland Basin, as well as payments made to extend certain lease terms and to acquire new leases. Please refer to *Operational Activities* above and *Acquisition Activity* below for additional information.

Production Results. The table below presents the disaggregation of our production by product type for each of our programs for the year ended December 31, 2020:

	<u>Midland Basin</u>	<u>South Texas</u>	<u>Total</u>
Production:			
Oil (MMBbl)	21.3	1.7	23.0
Gas (Bcf)	46.6	57.3	103.9
NGLs (MMBbl)	—	6.1	6.1
Equivalent (MMBOE)	29.1	17.3	46.4
Avg. daily equivalents (MBOE/d)	79.5	47.4	126.9
Relative percentage	63 %	37 %	100 %

Note: Amounts may not calculate due to rounding.

Production decreased four percent for the year ended December 31, 2020, compared with 2019. This decrease was primarily driven by a 21 percent decrease in production volumes from our South Texas assets, partially offset by an 11 percent increase in production volumes from our Midland Basin assets for the year ended December 31, 2020, compared with 2019. Please refer to *A Year-to-Year Overview of Selected Production and Financial Information, Including Trends and Comparison of Financial Results and Trends Between 2020 and 2019 and Between 2019 and 2018* below for additional discussion on production.

Acquisition Activity. During 2020, we completed a non-monetary acreage trade of primarily undeveloped properties located in Upton County, Texas, as well as acreage acquisitions in Martin County, Texas, in order to continue maximizing our operational efficiencies in our Midland Basin program. Please refer to *Note 3 – Acquisitions, Divestitures, and Assets Held for Sale* in Part II, Item 8 of this report for additional discussion.

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 effects of derivative settlements, unless otherwise indicated. 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, 2020, 2019, and 2018:

	For the Years Ended December 31,		
	2020	2019	2018
Oil (per Bbl):			
Average NYMEX contract monthly price	\$ 39.40	\$ 57.03	\$ 64.77
Realized price, before the effect of derivative settlements	\$ 37.08	\$ 54.10	\$ 56.80
Effect of oil derivative settlements	\$ 14.40	\$ (0.90)	\$ (3.67)
Gas:			
Average NYMEX monthly settle price (per MMBtu)	\$ 2.08	\$ 2.63	\$ 3.09
Realized price, before the effect of derivative settlements (per Mcf)	\$ 1.80	\$ 2.39	\$ 3.43
Effect of gas derivative settlements (per Mcf)	\$ 0.11	\$ 0.21	\$ (0.12)
NGLs (per Bbl):			
Average OPIS price ⁽¹⁾	\$ 17.96	\$ 22.34	\$ 32.96
Realized price, before the effect of derivative settlements	\$ 13.96	\$ 17.26	\$ 27.22
Effect of NGL derivative settlements	\$ 1.28	\$ 4.43	\$ (6.78)

⁽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.

During 2020, benchmark prices for oil were impacted by the misalignment of supply and demand caused by the Pandemic and other macroeconomic events. 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. We expect future benchmark prices for oil, gas, and NGLs to remain volatile for the foreseeable future. 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 4, 2021, and December 31, 2020:

	As of February 4, 2021	As of December 31, 2020
NYMEX WTI oil (per Bbl)	\$ 54.27	\$ 48.36
NYMEX Henry Hub gas (per MMBtu)	\$ 3.03	\$ 2.65
OPIS NGLs (per Bbl)	\$ 26.27	\$ 22.99

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 senior executive officers and finance personnel. The amount of our production covered by derivatives is driven by the amount of debt on our balance sheet, the level of capital commitments and long-term obligations we have in place, and our ability to enter into favorable commodity derivative contracts. 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 for a portion of our oil and gas production. 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 2021 capital program is budgeted between \$650.0 million and \$675.0 million, which we expect to fund with cash flows from operations. We expect to focus our 2021 capital program on highly economic oil development projects in both our Midland Basin assets and our South Texas assets. In South Texas, we intend to primarily target the Austin Chalk formation. None of these assets are located on federal lands, and therefore our operations will not be impacted by the recent suspension of the issuance of federal drilling permits.

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, 2020, and the preceding three quarters.

	For the Three Months Ended			
	December 31, 2020	September 30, 2020	June 30, 2020	March 31, 2020
	(in millions)			
Production (MMBOE)	11.3	11.6	11.2	12.4
Oil, gas, and NGL production revenue	\$ 320.2	\$ 282.0	\$ 169.8	\$ 354.2
Oil, gas, and NGL production expense	\$ 96.0	\$ 95.3	\$ 80.4	\$ 119.6
Depletion, depreciation, amortization, and asset retirement obligation liability accretion	\$ 188.9	\$ 181.7	\$ 180.9	\$ 233.5
Exploration	\$ 11.3	\$ 8.5	\$ 9.8	\$ 11.3
General and administrative	\$ 20.0	\$ 24.5	\$ 27.2	\$ 27.4
Net loss	\$ (165.2)	\$ (98.3)	\$ (89.3)	\$ (411.9)

Note: Amounts may not calculate due to rounding.

Selected Performance Metrics

	For the Three Months Ended			
	December 31, 2020	September 30, 2020	June 30, 2020	March 31, 2020
Average net daily equivalent production (MBOE per day)	122.4	126.3	122.9	135.9
Lease operating expense (per BOE)	\$ 4.10	\$ 3.65	\$ 3.30	\$ 4.75
Transportation costs (per BOE)	\$ 2.89	\$ 3.11	\$ 3.12	\$ 3.11
Production taxes as a percent of oil, gas, and NGL production revenue	4.0 %	4.3 %	3.7 %	4.2 %
Ad valorem tax expense (per BOE)	\$ 0.38	\$ 0.40	\$ 0.22	\$ 0.60
Depletion, depreciation, amortization, and asset retirement obligation liability accretion (per BOE)	\$ 16.77	\$ 15.64	\$ 16.17	\$ 18.88
General and administrative (per BOE)	\$ 1.78	\$ 2.10	\$ 2.43	\$ 2.22

Note: Amounts may not calculate due to rounding.

A Year-to-Year Overview of Selected Production and Financial Information, Including Trends

	For the Years Ended December 31,			Amount Change Between		Percent Change Between	
	2020	2019	2018	2020/2019	2019/2018	2020/2019	2019/2018
Net production volumes: ⁽¹⁾							
Oil (MMBbl)	23.0	21.9	18.8	1.1	3.1	5 %	17 %
Gas (Bcf)	103.9	109.8	103.2	(5.9)	6.6	(5)%	6 %
NGLs (MMBbl)	6.1	8.1	7.9	(2.0)	0.2	(25)%	2 %
Equivalent (MMBOE)	46.4	48.3	43.9	(1.9)	4.4	(4)%	10 %
Average net daily production: ⁽¹⁾							
Oil (MBbl per day)	62.9	59.9	51.4	3.0	8.5	5 %	17 %
Gas (MMcf per day)	283.9	300.8	282.7	(17.0)	18.1	(6)%	6 %
NGLs (MBbl per day)	16.7	22.2	21.8	(5.6)	0.5	(25)%	2 %
Equivalent (MBOE per day)	126.9	132.3	120.3	(5.4)	12.0	(4)%	10 %
Oil, gas, and NGL production revenue (in millions): ⁽¹⁾							
Oil production revenue	\$ 853.6	\$ 1,183.2	\$ 1,065.7	\$ (329.6)	\$ 117.5	(28)%	11 %
Gas production revenue	187.5	262.5	354.5	(75.1)	(91.9)	(29)%	(26)%
NGL production revenue	85.2	140.0	216.2	(54.8)	(76.2)	(39)%	(35)%
Total oil, gas, and NGL production revenue	<u>\$ 1,126.2</u>	<u>\$ 1,585.8</u>	<u>\$ 1,636.4</u>	<u>\$ (459.6)</u>	<u>\$ (50.6)</u>	(29)%	(3)%
Oil, gas, and NGL production expense (in millions): ⁽¹⁾							
Lease operating expense	\$ 184.2	\$ 225.5	\$ 208.1	\$ (41.3)	\$ 17.4	(18)%	8 %
Transportation costs	142.0	187.1	191.5	(45.1)	(4.4)	(24)%	(2)%
Production taxes	46.1	65.0	66.9	(18.9)	(1.9)	(29)%	(3)%
Ad valorem tax expense	18.9	23.1	20.9	(4.2)	2.2	(18)%	10 %
Total oil, gas, and NGL production expense	<u>\$ 391.2</u>	<u>\$ 500.7</u>	<u>\$ 487.4</u>	<u>\$ (109.5)</u>	<u>\$ 13.3</u>	(22)%	3 %
Realized price, before the effect of derivative settlements:							
Oil (per Bbl)	\$ 37.08	\$ 54.10	\$ 56.80	\$ (17.02)	\$ (2.70)	(31)%	(5)%
Gas (per Mcf)	\$ 1.80	\$ 2.39	\$ 3.43	\$ (0.59)	\$ (1.04)	(25)%	(30)%
NGLs (per Bbl)	\$ 13.96	\$ 17.26	\$ 27.22	\$ (3.30)	\$ (9.96)	(19)%	(37)%
Per BOE	\$ 24.26	\$ 32.84	\$ 37.27	\$ (8.58)	\$ (4.43)	(26)%	(12)%
Per BOE data: ⁽¹⁾							
Production costs:							
Lease operating expense	\$ 3.97	\$ 4.67	\$ 4.74	\$ (0.70)	\$ (0.07)	(15)%	(1)%
Transportation costs	3.06	3.88	4.36	(0.82)	(0.48)	(21)%	(11)%
Production taxes	0.99	1.35	1.52	(0.36)	(0.17)	(27)%	(11)%
Ad valorem tax expense	0.41	0.48	0.48	(0.07)	—	(15)%	— %
Total production costs	<u>\$ 8.43</u>	<u>\$ 10.38</u>	<u>\$ 11.10</u>	<u>\$ (1.95)</u>	<u>\$ (0.72)</u>	(19)%	(6)%
Depletion, depreciation, amortization, and asset retirement obligation liability accretion	\$ 16.91	\$ 17.06	\$ 15.15	\$ (0.15)	\$ 1.91	(1)%	13 %
General and administrative	\$ 2.14	\$ 2.75	\$ 2.65	\$ (0.61)	\$ 0.10	(22)%	4 %
Derivative settlement gain (loss) ⁽²⁾	\$ 7.57	\$ 0.81	\$ (3.09)	\$ 6.76	\$ 3.90	835 %	126 %
Earnings per share information:							
Basic weighted-average common shares outstanding (in thousands)	113,730	112,544	111,912	1,186	632	1 %	1 %
Diluted weighted-average common shares outstanding (in thousands)	113,730	112,544	113,502	1,186	(958)	1 %	(1)%
Basic net income (loss) per common share	\$ (6.72)	\$ (1.66)	\$ 4.54	\$ (5.06)	\$ (6.20)	(305)%	(137)%
Diluted net income (loss) per common share	\$ (6.72)	\$ (1.66)	\$ 4.48	\$ (5.06)	\$ (6.14)	(305)%	(137)%

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

⁽²⁾ Derivative settlements for the years ended December 31, 2020, 2019, and 2018, are included within the net derivative (gain) loss line item in the accompanying consolidated statements of operations ("accompanying statements of operations").

Average net daily equivalent production for the year ended December 31, 2020, decreased four percent compared with 2019, as a result of proactive measures taken to respond to the lower commodity price environment experienced in 2020 compared with 2019. This included voluntary production curtailments and less costs incurred as a result of intentionally reducing the number of new wells completed and brought on production. The decrease in average net daily equivalent production volumes was primarily driven by a 21 percent decrease in daily production volumes from our South Texas assets, partially offset by a 10 percent increase in daily production volumes from our Midland Basin assets. We expect both total production volumes and oil volumes as a percentage of our total production mix to increase in 2021 compared with 2020. Please refer to *Comparison of Financial Results and Trends Between 2020 and 2019 and Between 2019 and 2018* below 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 before the effect of derivative settlements on a per BOE basis decreased \$8.58 per BOE for the year ended December 31, 2020, compared with 2019, primarily driven by lower benchmark commodity prices for oil, gas, and NGLs resulting from the Pandemic and other macroeconomic events. Regional pricing differentials in the Midland Basin negatively affected our realized prices in 2020 and 2019. The negative impacts on revenue associated with the decrease in our realized price before the effect of derivative settlements on a per BOE basis was partially offset by an increase in the gain we recognized on the settlement of our derivative contracts of \$6.76 per BOE for the year ended December 31, 2020, compared with 2019. Benchmark commodity prices improved toward the end of 2020 and into early 2021, however, negative impacts on our realized pricing resulting from the Pandemic and associated macroeconomic events could occur during 2021.

Lease operating expense ("LOE") on a per BOE basis decreased 15 percent for the year ended December 31, 2020, compared with 2019. This decrease was primarily driven by reduced costs, reduced workover activity, and increased operational efficiencies during 2020. For 2021, we expect LOE on a per BOE basis to be relatively flat, compared with 2020, as we expect the benefit received from our cost reduction efforts and operational efficiencies to be offset by the expected increase in oil volumes as a percentage of our 2021 total production mix.

Transportation costs on a per BOE basis decreased 21 percent for the year ended December 31, 2020, compared with 2019. This decrease was driven by a 21 percent reduction in production volumes from our South Texas assets, which incur the majority of our transportation costs, for the year ended December 31, 2020, compared with 2019. We expect total transportation costs to fluctuate relative to changes in production from our South Texas assets. On a per BOE basis, we expect transportation costs to decrease in 2021, compared with 2020, as production from our Midland Basin assets, which is sold at or near the wellhead and incurs minimal transportation costs, continues to become a larger portion of our total production. Further, we anticipate natural declines in production from our Eagle Ford shale wells in South Texas, which incur higher transportation costs on a per BOE basis, and we intend to focus on new wells with higher liquids content in the Austin Chalk, which have lower transportation costs on a per BOE basis. In addition, we expect to benefit from certain transportation contract cost reductions which are expected to further reduce our transportation expense per BOE in 2021.

Production taxes on a per BOE basis for the year ended December 31, 2020, decreased 27 percent compared with 2019, primarily driven by a decrease in realized prices. Our overall production tax rate for both of the years ended December 31, 2020, and 2019, was 4.1 percent. We expect our total production tax expense to increase in 2021, compared with 2020, as we expect oil, gas, and NGL production revenue to increase due to higher expected pricing based on 12-month strip prices as of February 4, 2021, and increased volumes. 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 we recognize.

Ad valorem tax expense on a per BOE basis decreased 15 percent for the year ended December 31, 2020, compared with 2019, primarily due to changes in the assessed values of our producing properties recognized by respective tax authorities in 2020. We anticipate volatility in ad valorem tax expense on a per BOE and absolute basis as the valuation of our producing properties change.

Depletion, depreciation, amortization, and asset retirement obligation liability accretion ("DD&A") expense on a per BOE basis remained relatively flat for the year ended December 31, 2020, compared with 2019. During 2020, decreases in DD&A expense, which were driven by 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, were partially offset by higher production volumes from our oil producing Midland Basin assets as these assets have higher depletion rates than our primarily gas and NGL producing South Texas assets. 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. In general, we expect the DD&A rate for 2021 to be relatively flat compared with 2020 and DD&A expense on an absolute basis to be higher compared with 2020, primarily as a result of anticipated higher production volumes.

General and administrative ("G&A") expense on a per BOE basis for the year ended December 31, 2020, decreased 22 percent, compared with 2019. This decrease was 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. For 2021, we expect G&A expense to remain relatively flat on an absolute basis and to decrease on a per BOE basis, compared with 2020.

Please refer to *Comparison of Financial Results and Trends Between 2020 and 2019 and Between 2019 and 2018* for additional discussion of operating expenses.

Please refer to *Note 9 - Earnings Per Share* in Part II, Item 8 of this report for additional discussion on the types of shares included in our basic and diluted net income (loss) per common share calculations. We recorded a net loss for each of the years ended December 31, 2020, and 2019. Consequently, all potentially dilutive shares were anti-dilutive and were excluded from the calculation of diluted net loss per common share for the years ended December 31, 2020, and 2019. For the year ended December 31, 2018, we recorded net income and thus, considered dilutive shares in the calculation of diluted net income per common share.

Comparison of Financial Results and Trends Between 2020 and 2019 and Between 2019 and 2018

Please refer to *Comparison of Financial Results and Trends Between 2019 and 2018 and Between 2018 and 2017* in *Management's Discussion and Analysis of Financial Condition and Results of Operations* in Part II, Item 7 of our 2019 Annual Report on Form 10-K, filed with the SEC on February 20, 2020, for a detailed discussion of certain comparisons of our financial results and trends for the year ended December 31, 2019, compared with the year ended December 31, 2018.

Net equivalent production, production revenue, and production expense

The following table presents the changes in our net 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 before the effects of derivative settlements 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 the decreases in production and pricing, oil, gas, and NGL production revenue 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 *A Year-to-Year Overview of Selected Production and Financial Information, Including Trends* for additional discussion of the components of production expense.

The following table presents the changes in our net equivalent production, production revenue, and production expense, by area, between the years ended December 31, 2019, and 2018:

	Net Equivalent Production Increase (Decrease)		Production Revenue Increase (Decrease)		Production Expense Increase (Decrease)
	(MBOE per day)		(in millions)		(in millions)
Midland Basin	14.6	\$	131.1	\$	31.5
South Texas	0.4		(124.5)		5.2
Rocky Mountain ⁽¹⁾	(3.1)		(57.2)		(23.3)
Total	12.0	\$	(50.6)	\$	13.3

Note: Amounts may not calculate due to rounding.

⁽¹⁾ We divested all remaining producing assets in the Rocky Mountain region in the first half of 2018. As a result, there have been no production volumes from this region after the second quarter of 2018.

Average net daily equivalent production volumes for the year ended December 31, 2019, increased 10 percent compared with 2018, primarily as a result of increased production from our Midland Basin assets. As a result of increased Midland Basin production, oil production as a percentage of our overall product mix increased from 43 percent in 2018, to 45 percent in 2019. Oil, gas, and NGL production revenues decreased three percent for the year ended December 31, 2019, compared with 2018, as a result of lower

commodity pricing and the divestiture in the first half of 2018 of our remaining producing assets in the Rocky Mountain region. Total production expense for the year ended December 31, 2019, increased three percent compared with 2018, due to increased LOE and ad valorem tax expense, partially offset by decreased production taxes and transportation costs. Production expense on a per BOE basis decreased six percent for the year ended December 31, 2019, compared with 2018, primarily due to increased production volumes, decreased transportation costs, and decreased production taxes resulting from lower oil, gas, and NGL production revenues.

Net gain on divestiture activity

	For the Years Ended December 31,		
	2020	2019	2018
	(in millions)		
Net gain on divestiture activity	\$ 0.1	\$ 0.9	\$ 426.9

No material divestitures occurred during 2020 or 2019. For the year ended December 31, 2018, we recorded a total net gain of \$410.6 million for the divestiture of our Powder River Basin assets (the "PRB Divestiture"), and a combined total net gain of \$15.4 million for the completed divestitures of our remaining assets in the Williston Basin located in Divide County, North Dakota (the "Divide County Divestiture") and our Half East assets in the Midland Basin (the "Half East Divestiture"). Please refer to *Note 3 – Acquisitions, Divestitures, and Assets Held for Sale* in Part II, Item 8 of this report for additional discussion.

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

	For the Years Ended December 31,		
	2020	2019	2018
	(in millions)		
Depletion, depreciation, amortization, and asset retirement obligation liability accretion	\$ 785.0	\$ 823.8	\$ 665.3

DD&A expense for the year ended December 31, 2020, decreased five percent compared with 2019. The decrease was primarily driven by 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 volumes from our oil producing Midland Basin assets as these assets have higher depletion rates than our primarily gas and NGL producing South Texas assets. DD&A expense for the year ended December 31, 2019, increased 24 percent compared with 2018, primarily driven by a 25 percent increase in production volumes from our Midland Basin assets during the same period. Please refer to *A Year-to-Year Overview of Selected Production and Financial Information, Including Trends* above for discussion of DD&A expense on a per BOE basis.

Exploration

	For the Years Ended December 31,		
	2020	2019	2018
	(in millions)		
Geological and geophysical expenses	\$ 4.3	\$ 2.9	\$ 5.6
Exploratory dry hole	—	4.8	—
Overhead and other expenses	36.7	43.8	49.6
Total	<u>\$ 41.0</u>	<u>\$ 51.5</u>	<u>\$ 55.2</u>

Exploration expense decreased 20 percent for the year ended December 31, 2020, compared with 2019. The decrease for the year ended December 31, 2020, was primarily driven by the reorganization of certain functions in the fourth quarter of 2019 that eliminated duplicative regional operational functions and reduced overhead costs. Exploration expense is impacted by actual geological and geophysical studies we perform and the potential for exploratory dry hole expense.

Impairment

	For the Years Ended December 31,		
	2020	2019	2018
	(in millions)		
Impairment of proved oil and gas properties and related support equipment	\$ 956.7	\$ —	\$ —
Abandonment and impairment of unproved properties	59.3	33.8	49.9
Total	<u>\$ 1,016.0</u>	<u>\$ 33.8</u>	<u>\$ 49.9</u>

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, we recorded impairment expense related to our South Texas proved oil and gas properties and related support facilities. There were no proved oil and gas property impairments recorded in 2019, and 2018. Unproved property abandonments and impairments recorded during the years ended December 31, 2020, 2019, and 2018, 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 4, 2021, we do not expect any material oil and gas property impairments in the first quarter of 2021 resulting from commodity price impacts.

Please refer to *Critical Accounting Policies and Estimates* below for additional discussion.

General and administrative

	For the Years Ended December 31,		
	2020	2019	2018
	(in millions)		
General and administrative	\$ 99.2	\$ 132.8	\$ 116.5

G&A expense decreased 25 percent for the year ended December 31, 2020, compared with 2019. Please refer to *A Year-to-Year Overview of Selected Production and Financial Information, Including Trends* above for discussion of G&A expense.

Net derivative (gain) loss

	For the Years Ended December 31,		
	2020	2019	2018
	(in millions)		
Net derivative (gain) loss	\$ (161.6)	\$ 97.5	\$ (161.8)

We recognized a net derivative gain of \$161.6 million for the year ended December 31, 2020. The gain was primarily driven by gains on the settlement of derivative contracts of \$351.3 million offset by \$189.7 million in downward mark-to-market adjustments due to the strengthening of commodity prices towards the end of 2020.

We recognized a net derivative loss of \$97.5 million for the year ended December 31, 2019. The loss was primarily driven by \$136.7 million in downward mark-to-market adjustments offset by gains on the settlement of derivative contracts of \$39.2 million.

We recognized a net derivative gain of \$161.8 million for the year ended December 31, 2018. The gain was primarily driven by upward mark-to market adjustments of \$297.6 million offset by losses on the settlement of derivative contracts of \$135.8 million.

Please refer to *Note 10 – Derivative Financial Instruments* in Part II, Item 8 of this report for additional discussion.

Interest expense

	For the Years Ended December 31,		
	2020	2019	2018
	(in millions)		
Interest expense	\$ (163.9)	\$ (159.1)	\$ (160.9)

Interest expense increased three percent for the year ended December 31, 2020, compared with 2019, primarily due to an increase in interest expense associated with borrowings under our revolving credit facility and a decrease in interest expense capitalized to wells. We expect interest expense related to our Senior Notes to be relatively flat in 2021 compared with 2020 as the increase related to the higher interest rate on the 2025 Senior Secured Notes will be mostly offset by the decreased interest associated with the reduction in the aggregate principal amount of Senior Notes resulting from exchanges and redemptions in 2020. 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 2025 Senior Secured Notes and Senior Notes.

Net gain (loss) on extinguishment of debt

	For the Years Ended December 31,		
	2020	2019	2018
	(in millions)		
Net gain (loss) on extinguishment of debt	\$ 280.1	\$ —	\$ (26.7)

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 6.125% Senior Notes due 2022 (“2022 Senior Notes”) and 5.0% Senior Notes due 2024 (“2024 Senior Notes”) in open market transactions, resulting in a net gain on extinguishment of debt of \$52.8 million, \$15.5 million of which was recorded in the fourth quarter of 2020. 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 and Old Notes.

Income tax (expense) benefit

	For the Years Ended December 31,		
	2020	2019	2018
	(in millions, except tax rate)		
Income tax (expense) benefit	\$ 192.1	\$ 44.0	\$ (143.4)
Effective tax rate	20.1 %	19.1 %	22.0 %

The increase in the effective tax benefit 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. 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 decreased the tax benefit rate for the year ended December 31, 2020, compared with 2019. This decrease was partially offset by state permanent items reflecting state planning strategies which increased the tax benefit rate for the year ended December 31, 2020. Changes to the Internal Revenue Code (“IRC”) could eliminate or reduce certain oil and gas industry deductions and could increase the overall corporate income tax rate.

The decrease in the effective tax rate for the year ended December 31, 2019, compared with 2018, was primarily due to the differing effects of permanent items on the loss before income taxes for the year ended December 31, 2019, compared to the impact of these items on income before income taxes for 2018. Excess tax deficiencies from stock-based compensation awards, limits on expensing of certain covered individual's compensation, and other permanent expense items reduced the tax benefit rate for the year ended December 31, 2019. These same items increased the tax expense rate for the year ended December 31, 2018. The reduction in the tax expense rate also reflects a cumulative effect in 2018 from divestitures, and the impact of a correlative change to our state apportionment rate.

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 in a challenging commodity price environment. 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, and we have successfully renegotiated certain contracts allowing us to realize cost savings that directly support our objective of maximizing cash flows.

Sources of Cash

We expect our 2021 capital program to be funded by cash flows from operations. Although we expect cash flows from operations to be sufficient to fund our expected 2021 capital program, we may also use borrowings under our revolving credit facility or may elect to 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.

As a result of the current macroeconomic environment, our credit ratings were downgraded during 2020 by three major credit rating agencies. These downgrades and any future downgrades in our credit ratings could make it more difficult or expensive for us to borrow additional funds.

We have no control over the market prices for oil, gas, or 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 2020, we completed the fall semi-annual borrowing base redetermination with our lenders, and entered into the Fifth Amendment to the Credit Agreement, which among other items, reaffirmed the borrowing base and aggregate lender commitments at existing levels and extended the date through which we may incur Permitted Second Lien Debt, as defined in *Note 5 – Long-Term Debt* in Part II, Item 8 of this report. As of December 31, 2020, we had \$380.8 million of Permitted Second Lien Debt capacity available until the next scheduled redetermination date of April 1, 2021, provided that all principal amounts of such debt are used to redeem unsecured senior debt of the Company for less than or equal to 80% of par value. As of December 31, 2020, the remaining available borrowing capacity under our Credit Agreement provided \$965.0 million in liquidity. 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 4, 2021, December 31, 2020, and December 31, 2019.

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, 2020, 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.

Our daily weighted-average revolving credit facility debt balance was approximately \$145.6 million and \$115.2 million for the years ended December 31, 2020, and 2019, 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. The use of LIBOR as a global reference rate is expected to be discontinued after 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. 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 which provides 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 the non-cash amortization of the discounts related to the 2025 Senior Secured Notes and 2021 Senior Secured Convertible 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, 2020, 2019, and 2018:

	For the Years Ended December 31,		
	2020	2019	2018
Weighted-average interest rate	7.0 %	6.4 %	6.4 %
Weighted-average borrowing rate	6.1 %	5.7 %	5.8 %

Our weighted-average interest rates and weighted-average borrowing rates are impacted by the 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. For the year ended December 31, 2020, our weighted-average interest rate and our weighted-average borrowing rate increased, compared with 2019, primarily as a result of the higher interest rate on our 2025 Senior Secured Notes issued during the second quarter of 2020. The rates disclosed in the above table do not reflect amounts associated with the early redemption of certain of our Old 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. Please refer to *Note 5 – Long-Term Debt* in Part II, Item 8 of this report for additional discussion including the definition of Old Notes.

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 2020, we spent approximately \$555.7 million on capital expenditures and on acquiring proved and unproved oil and gas properties. This amount differs from the costs incurred amount of \$585.3 million for the year ended December 31, 2020, 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. 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. The macroeconomic events discussed throughout this report impacted our capital program in 2020. We are unable to reasonably estimate the period of time that these market conditions will exist, the extent of the impact they will have on our business, liquidity, results of operations, financial condition, or the timing of any subsequent recovery.

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, 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 2020, we completed the Exchange Offers, as defined in *Note 5 – Long-Term Debt* in Part II, Item 8 of this report, and we repurchased certain of our 2022 Senior Notes and 2024 Senior Notes in open market transactions.

The balance of our revolving credit facility decreased \$29.5 million from \$122.5 million at December 31, 2019, to \$93.0 million at December 31, 2020, notwithstanding repurchases of \$243.8 million in aggregate principal amount of our Senior Unsecured Notes, as defined in *Note 5 – Long-Term Debt* in Part II, Item 8 of this report, and 2021 Senior Convertible Notes for \$190.0 million in cash during the twelve months ended December 31, 2020.

Please refer to *Note 5 – Long-Term Debt* and *Note 11 – Fair Value Measurements* in Part II, Item 8 of this report for additional discussion. As part of our strategy for 2021, we will continue to focus on improving our debt metrics, which may include reducing the amount of our outstanding debt.

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, as defined in *Note 5 – Long-Term Debt* in Part II, Item 8 of this report, 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 2020, we did not repurchase any shares of our common stock, and we currently do not plan to repurchase any outstanding shares of our common stock during 2021.

During the years ended December 31, 2020, 2019, and 2018, we paid \$2.3 million, \$11.3 million, and \$11.2 million, respectively, in dividends to our stockholders. These amounts reflect a dividend of \$0.02 per share for the year ended December 31, 2020, and a dividend of \$0.10 per share for each of the years ended December 31, 2019, and 2018. 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 2020 and 2019 and Between 2019 and 2018

The following tables present changes in cash flows between the years ended December 31, 2020, 2019, and 2018, 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	
	2020	2019	2018	2020/2019	2019/2018
	(in millions)				
Net cash provided by operating activities	\$ 790.9	\$ 823.6	\$ 720.6	\$ (32.7)	\$ 103.0

Net cash provided by operating activities decreased for the year ended December 31, 2020, compared with the same period in 2019 primarily due to 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.

Derivative settlements increased \$202.9 million for the year ended December 31, 2019, compared with 2018. This increase was partially offset by decreased cash received from oil, gas, and NGL production revenues, net of transportation costs and production taxes of \$73.4 million, and increased cash paid for LOE and ad valorem taxes of \$22.0 million for the year ended December 31, 2019, compared with 2018. Cash paid for interest decreased \$8.8 million for the year ended December 31, 2019, compared with 2018, due to the redemption and repurchase of certain senior notes in the third quarter of 2018, partially offset by increased interest paid on our 6.625% Senior Notes due 2027 (“2027 Senior Notes”) and interest paid on revolving credit facility borrowings during the year ended December 31, 2019.

Investing Activities

	For the Years Ended December 31,			Amount Change Between	
	2020	2019	2018	2020/2019	2019/2018
	(in millions)				
Net cash used in investing activities	\$ (555.6)	\$ (1,013.3)	\$ (587.9)	\$ 457.7	\$ (425.4)

Net cash used in investing activities decreased for the year ended December 31, 2020, compared with the same period in 2019, primarily due to 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.

Net cash used in investing activities increased for the year ended December 31, 2019, compared with 2018. Proceeds received from the sale of oil and gas properties were \$735.5 million lower in 2019 than in 2018 as no material divestitures occurred during 2019. This was partially offset by lower capital expenditures of \$279.4 million and less cash paid to acquire proved and unproved oil and gas properties of \$30.7 million.

Financing Activities

	For the Years Ended December 31,			Amount Change Between	
	2020	2019	2018	2020/2019	2019/2018
	(in millions)				
Net cash provided by (used in) financing activities	\$ (235.4)	\$ 111.8	\$ (368.7)	\$ (347.2)	\$ 480.5

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, and we paid \$53.5 million to certain holders of the 2021 Senior Convertible Notes in connection with the Private Exchange. Please refer to *Note 5 – Long-Term Debt* in Part II, Item 8 of this report for additional discussion and definitions. For the year ended December 31, 2020, we had net repayments to our revolving credit facility of \$29.5 million, compared to net borrowings of \$122.5 million for the year ended December 31, 2019.

During the year ended December 31, 2018, we paid approximately \$845.0 million, including premiums, to redeem or repurchase certain of our senior notes, and we received net proceeds of \$492.1 million upon the issuance of our 2027 Senior Notes, as defined in *Note 5 – Long-Term Debt* in Part II, Item 8 of this report. There were no such debt transactions during 2019. Net borrowings under our revolving credit facility were \$122.5 million for the year ended December 31, 2019, compared with no borrowings on our revolving credit facility during 2018.

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, 2020, we had a \$93.0 million 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 Unsecured Notes or fixed-rate Senior Secured Notes but can impact their fair values. As of December 31, 2020, our outstanding principal amount of fixed-rate debt totaled \$2.2 billion and our floating-rate debt outstanding totaled \$93.0 million. Please refer to *Note 11 – 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, all of which are typically beyond our control. The markets for oil, gas, and NGLs have been volatile, especially over the last several years. During the first half of 2020, oil, gas, and NGL prices weakened to historic lows as a result of the Pandemic and other macroeconomic events and will likely continue to be volatile in the future. The realized prices we receive for our production also depend on numerous factors that are typically beyond our control. Based on our 2020 production, a 10 percent decrease in our average realized oil, gas, and NGL prices, before the effects of derivative settlements, would have reduced our oil, gas, and NGL production revenues by approximately \$85.4 million, \$18.7 million, and \$8.5 million, respectively. If commodity prices had been 10 percent lower, our net derivative settlements for the year ended December 31, 2020, would have offset the declines in oil, gas, and NGL production revenue by approximately \$85.2 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, 2020, 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 \$135.3 million, \$28.0 million, and \$7.5 million, respectively.

Off-Balance Sheet Arrangements

As part of our ongoing business, 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 (“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 2020 or 2019, 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 due to 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. 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 at least 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, 2020, 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, 2020. 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,		
	2020	2019	2018
	MMBOE Change	MMBOE Change	MMBOE Change
Revisions resulting from performance	3.6	(14.9)	(59.7)
Removal of proved undeveloped reserves no longer in our five-year development plan	(65.0)	(9.8)	(22.6)
Revisions resulting from price changes	(32.6)	(70.0)	13.5
Total	(94.0)	(94.7)	(68.8)

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, 2020	
	MMBOE Change	Percentage Change
10 percent decrease in SEC pricing ⁽¹⁾	(9.1)	(2)%
Average NYMEX strip pricing as of fiscal year end ⁽²⁾	13.3	3 %
⁽³⁾ 10 percent decrease in proved undeveloped reserves	(17.5)	(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, 2020, 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, 2020, 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, 2020, SEC pricing was \$39.57 per Bbl for oil, \$1.99 per MMBtu for gas, and \$17.64 per Bbl for NGLs, and five-year average NYMEX strip pricing was \$46.16 per Bbl for oil, \$2.54 per MMBtu for gas, and \$20.45 per Bbl for NGLs.

⁽³⁾ The change solely reflects a 10 percent decrease in proved undeveloped reserves as of December 31, 2020, 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 4, 2021, we do not expect any material oil and gas property impairments in the first quarter of 2021 resulting from commodity price impacts.

Please refer to *Note 1 – Summary of Significant Accounting Policies* and *Note 11 – 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, 2020, 2019, and 2018.

Fair Value of the Debt Exchange Transactions. The Exchange Offers executed in the second quarter of 2020 required significant judgment in evaluating the application of the applicable accounting guidance, and significant assumptions were made in estimating the fair value of the 2025 Senior Secured Notes and warrants issued. Please refer to *Note 5 – Long-Term Debt* and *Note 11 – Fair Value Measurements* in Part II, Item 8 of this report for additional discussion and definitions.

Revenue Recognition. Effective January 1, 2018, our revenue recognition policy was updated to reflect the adoption of new accounting guidance. 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. Our primary source of revenue is derived by the sale of produced oil, gas, and NGLs. Revenue is recognized at the point in time when custody and title (“control”) of the product, as defined by contractual terms, transfers to the purchaser. Payment for these sales is typically received between 30 and 90 days after the date of production. At the end of each month, we make estimates of the amount of production delivered to the purchaser and the price we will receive. We use our knowledge of our properties, contractual arrangements, historical performance, NYMEX, local spot market, and OPIS prices, and other factors as the basis for these estimates. Variances between our estimates and the actual amounts received are recorded in the month payment is received. A 10 percent change in our revenue accrual at year end 2020 would have impacted total operating revenues by approximately \$10.9 million in 2020. Please refer to *Note 2 - Revenue from Contracts with Customers* in Part II, Item 8 of this report for additional discussion.

Derivative Financial Instruments. We periodically enter into commodity derivative contracts to manage 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 \$9.6 million for the year ended December 31, 2020. 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* in 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. 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 that amend and expand 2012 regulations for the oil and gas sector by setting emission limits for VOCs 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 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 regulation of methane emissions and other VOCs, as well as removed methane control requirements. The Biden administration has directed the EPA to review and consider revising or rescinding these 2020 amendments, which could result in reinstatement of the previously adopted regulations or potentially more stringent requirements. 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. 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.

In August of 2015, the EPA finalized existing source performance standards as stringent state emission “goals” for utilities to reduce GHG emissions. The proposed standards focus on re-dispatching electricity from coal-fired units to gas combined cycle plants and renewables. In February 2016, however, the Supreme Court stayed these rules pending judicial review. The Trump EPA proposed a repeal of the rule based on a new legal interpretation of the EPA’s authority. The Trump EPA also proposed a replacement rule, the Affordable Clean Energy Rule, in August 2018 and finalized the rule in June 2019. The D.C. Circuit struck down the Affordable Clean Energy Rule in January 2021.

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. On November 4, 2019, President Trump formally notified the United Nations that the United States would withdraw from the Paris Agreement. The November 4, 2019 formal notice triggered the start of a year-long withdrawal process. However, President Biden has signed a document pledging the United States’ entry back into the agreement.

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 37 percent and 38 percent of our production on a BOE basis in 2020 and 2019, 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 the *Credit Agreement* section in *Overview of Liquidity and Capital Resources* above. 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 Agreement, if we failed to comply with the covenants that establish a maximum permitted ratio of total funded debt, as defined in the Credit Agreement, to adjusted EBITDAX, we would be in default, an event that would prevent us from borrowing under our revolving credit facility and would therefore materially limit a significant source of our liquidity. In addition, if we are in default under our revolving credit facility and are unable to obtain a waiver of that default from our lenders, lenders under the revolving credit 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 Years Ended December 31,		
	2020	2019	2018
	(in thousands)		
Net income (loss) (GAAP)	\$ (764,614)	\$ (187,001)	\$ 508,407
Interest expense	163,892	159,102	160,906
Income tax expense (benefit)	(192,091)	(44,043)	143,370
Depletion, depreciation, amortization, and asset retirement obligation liability accretion	784,987	823,798	665,313
Exploration ⁽¹⁾	37,541	46,995	49,627
Impairment	1,016,013	33,842	49,889
Stock-based compensation expense	14,999	24,318	23,908
Net derivative (gain) loss	(161,576)	97,539	(161,832)
Derivative settlement gain (loss)	351,261	39,222	(135,803)
Net gain on divestiture activity	(91)	(862)	(426,917)
(Gain) loss on extinguishment of debt	(280,081)	—	26,740
Other, net	5,165	481	(3,214)
Adjusted EBITDAX (non-GAAP)	975,405	993,391	900,394
Interest expense	(163,892)	(159,102)	(160,906)
Income tax (expense) benefit	192,091	44,043	(143,370)
Exploration ⁽¹⁾	(37,541)	(46,995)	(49,627)
Amortization of debt discount and deferred financing costs	17,704	15,474	15,258
Deferred income taxes	(192,540)	(41,835)	141,708
Other, net	(11,874)	1,739	3,501
Net change in working capital	11,591	16,852	13,671
Net cash provided by operating activities (GAAP)	\$ 790,944	\$ 823,567	\$ 720,629

⁽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 Place* in *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, 2020, and 2019, the related consolidated statements of operations, comprehensive income (loss), stockholders' equity and cash flows for each of the three years in the period ended December 31, 2020, 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, 2020, and 2019, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2020, 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, 2020, 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 18, 2021, 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 the 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, 2020, the net book value of the Company's proved oil and gas properties was \$3.7 billion, and depletion, depreciation, amortization, and asset retirement obligation liability accretion was \$785.0 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, 2020.

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 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.

Impairment of proved oil and gas properties and related support equipment

Description of the Matter

As described in Note 1 and Note 11 to the consolidated financial statements, the Company concluded its South Texas proved oil and gas properties and related support facilities were impaired and recognized a \$956.7 million impairment charge. Proved properties are evaluated periodically for impairment on a pool-by-pool basis when events or changes in circumstances indicate that a decline in the recoverability of their carrying value may have occurred. If the carrying amount exceeds the estimated undiscounted future cash flows, the Company will write down the carrying amount of the oil and gas properties to fair value.

Auditing the Company's impairment analysis involved subjectivity due to the significant estimation required to estimate the fair value of the South Texas proved properties. In particular, the determination of fair value included significant judgement and assumptions including discount rate, price and cost forecasts and certain reserve risk-adjustment factors, which are affected by expectations about future market and economic conditions. In addition, the identification of proved properties and anticipated production volumes developed by the Company's engineering technical team in conjunction with the reserve estimates described in the preceding critical audit matter, are used as inputs in the cash flow model.

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 determine the fair value of the assets and measure the impairment. This included controls over management's review of the significant assumptions underlying the fair value determination and of the completeness and accuracy of the data used in the determination of the fair value.

Our audit procedures included, among others, evaluating the significant assumptions and testing the completeness and accuracy of underlying data used in the calculation of the fair value, including identifying corroborative and contrary evidence. We evaluated the professional qualifications and objectivity of the engineering technical team primarily responsible for overseeing the preparation of the estimated proved reserves and risk adjusted probable and possible reserves used in the valuation. Further, we involved valuation specialists to assist in evaluating the appropriateness of the valuation methodologies applied and certain significant assumptions used to determine the fair value of the properties, including discount rate and commodity price forecasts.

Debt exchange

Description of the Matter As described in Note 5 to the consolidated financial statements, in June 2020, the Company exchanged \$611.9 million in Senior Unsecured Notes and \$107.0 million in 2021 Senior Convertible Notes for \$446.7 million of 2025 Senior Secured Notes, as well as (a) \$53.5 million in cash to certain holders of the 2021 Senior Convertible Notes and (b) warrants to acquire up to approximately 5.9 million shares of the Company's outstanding common stock to certain holders exercisable upon the occurrence of certain future triggering events. As a result, the Company recorded the 2025 Senior Secured Notes on the balance sheet at fair value of \$405.0 million, the warrants as additional paid-in capital at a fair value of \$21.5 million and recognized a gain on extinguishment of debt of \$227.3 million.

Auditing the Company's accounting for the debt exchange was especially complex and judgmental due to the significant judgement required to evaluate the Company's application of the applicable accounting guidance and to determine the fair value of the 2025 Senior Secured Notes and warrants issued in the debt exchange.

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 debt issuance and settlement processes, including controls over management's evaluation and application of the applicable accounting guidance and review of significant assumptions underlying the determination of fair value of the 2025 Senior Secured Notes and warrants issued in the debt exchange.

Our audit procedures included, among others, inspecting the relevant agreements and evaluating management's analysis of the applicable accounting guidance. We evaluated the significant assumptions and tested the completeness and accuracy of underlying data used in the determination of the fair value of the 2025 Senior Secured Notes and warrants issued in the debt exchange. Further, we involved valuation specialists to assist in evaluating the appropriateness of the valuation methodologies applied and certain significant assumptions used to determine the fair value of the 2025 Senior Secured Notes and warrants.

/s/ Ernst & Young LLP

We have served as the Company's auditor since 2012.
Denver, Colorado
February 18, 2021

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

	December 31,	
	2020	2019
ASSETS		
Current assets:		
Cash and cash equivalents	\$ 10	\$ 10
Accounts receivable	162,455	184,732
Derivative assets	31,203	55,184
Prepaid expenses and other	10,001	12,708
Total current assets	203,669	252,634
Property and equipment (successful efforts method):		
Proved oil and gas properties	8,608,522	8,934,020
Accumulated depletion, depreciation, and amortization	(4,886,973)	(4,177,876)
Unproved oil and gas properties	714,602	1,005,887
Wells in progress	233,498	118,769
Other property and equipment, net of accumulated depreciation of \$63,662 and \$64,032, respectively	32,217	72,848
Total property and equipment, net	4,701,866	5,953,648
Noncurrent assets:		
Derivative assets	23,150	20,624
Other noncurrent assets	47,746	65,326
Total noncurrent assets	70,896	85,950
Total assets	\$ 4,976,431	\$ 6,292,232
LIABILITIES AND STOCKHOLDERS' EQUITY		
Current liabilities:		
Accounts payable and accrued expenses	\$ 371,670	\$ 402,008
Derivative liabilities	200,189	50,846
Other current liabilities	11,880	19,189
Total current liabilities	583,739	472,043
Noncurrent liabilities:		
Revolving credit facility	93,000	122,500
Senior Notes, net	2,121,319	2,610,298
Asset retirement obligations	83,325	84,134
Deferred income taxes	—	189,386
Derivative liabilities	22,331	3,444
Other noncurrent liabilities	56,557	61,433
Total noncurrent liabilities	2,376,532	3,071,195
Commitments and contingencies (note 6)		
Stockholders' equity:		
Common stock, \$0.01 par value - authorized: 200,000,000 shares; issued and outstanding: 114,742,304 and 112,987,952 shares, respectively	1,147	1,130
Additional paid-in capital	1,827,914	1,791,596
Retained earnings	200,697	967,587
Accumulated other comprehensive loss	(13,598)	(11,319)
Total stockholders' equity	2,016,160	2,748,994
Total liabilities and stockholders' equity	\$ 4,976,431	\$ 6,292,232

The accompanying notes are an integral part of these consolidated financial statements.

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

	For the Years Ended December 31,		
	2020	2019	2018
Operating revenues and other income:			
Oil, gas, and NGL production revenue	\$ 1,126,188	\$ 1,585,750	\$ 1,636,357
Net gain on divestiture activity	91	862	426,917
Other operating revenues	394	3,493	3,798
Total operating revenues and other income	<u>1,126,673</u>	<u>1,590,105</u>	<u>2,067,072</u>
Operating expenses:			
Oil, gas, and NGL production expense	391,217	500,709	487,367
Depletion, depreciation, amortization, and asset retirement obligation liability accretion	784,987	823,798	665,313
Exploration	40,997	51,500	55,166
Impairment	1,016,013	33,842	49,889
General and administrative	99,160	132,797	116,504
Net derivative (gain) loss	(161,576)	97,539	(161,832)
Other operating expense, net	24,825	19,888	18,328
Total operating expenses	<u>2,195,623</u>	<u>1,660,073</u>	<u>1,230,735</u>
Income (loss) from operations	(1,068,950)	(69,968)	836,337
Interest expense	(163,892)	(159,102)	(160,906)
Net gain (loss) on extinguishment of debt	280,081	—	(26,740)
Other non-operating income (expense), net	(3,944)	(1,974)	3,086
Income (loss) before income taxes	(956,705)	(231,044)	651,777
Income tax (expense) benefit	192,091	44,043	(143,370)
Net income (loss)	\$ (764,614)	\$ (187,001)	\$ 508,407
Basic weighted-average common shares outstanding	113,730	112,544	111,912
Diluted weighted-average common shares outstanding	113,730	112,544	113,502
Basic net income (loss) per common share	\$ (6.72)	\$ (1.66)	\$ 4.54
Diluted net income (loss) per common share	\$ (6.72)	\$ (1.66)	\$ 4.48

The accompanying notes are an integral part of these consolidated financial statements.

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

	For the Years Ended December 31,		
	2020	2019	2018
Net income (loss)	\$ (764,614)	\$ (187,001)	\$ 508,407
Other comprehensive income (loss), net of tax:			
Pension liability adjustment ⁽¹⁾	(2,279)	1,061	4,378
Total other comprehensive income (loss), net of tax	(2,279)	1,061	4,378
Total comprehensive income (loss)	\$ (766,893)	\$ (185,940)	\$ 512,785

⁽¹⁾ Please refer to *Note 8 – Pension Benefits* for additional discussion of the pension liability adjustment.

The accompanying notes are an integral part of these consolidated financial statements.

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

	Common Stock		Additional Paid-in Capital	Retained Earnings	Accumulated Other Comprehensive Loss	Total Stockholders' Equity
	Shares	Amount				
Balances, January 1, 2018	111,687,016	\$ 1,117	\$ 1,741,623	\$ 665,657	\$ (13,789)	\$ 2,394,608
Net income	—	—	—	508,407	—	508,407
Other comprehensive income	—	—	—	—	4,378	4,378
Cash dividends, \$0.10 per share	—	—	—	(11,191)	—	(11,191)
Issuance of common stock under Employee Stock Purchase Plan	199,464	2	3,185	—	—	3,187
Issuance of common stock upon vesting of RSUs, net of shares used for tax withholdings	291,745	3	(2,978)	—	—	(2,975)
Stock-based compensation expense	63,741	—	23,908	—	—	23,908
Cumulative effect of accounting change	—	—	—	2,969	(2,969)	—
Balances, December 31, 2018	112,241,966	\$ 1,122	\$ 1,765,738	\$ 1,165,842	\$ (12,380)	\$ 2,920,322
Net loss	—	—	—	(187,001)	—	(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 Purchase Plan	314,868	3	3,206	—	—	3,209
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	1	24,317	—	—	24,318
Balances, December 31, 2019	112,987,952	\$ 1,130	\$ 1,791,596	\$ 967,587	\$ (11,319)	\$ 2,748,994
Net loss	—	—	—	(764,614)	—	(764,614)
Other comprehensive loss	—	—	—	—	(2,279)	(2,279)
Cash dividends, \$0.02 per share	—	—	—	(2,276)	—	(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	\$ 1,147	\$ 1,827,914	\$ 200,697	\$ (13,598)	\$ 2,016,160

The accompanying notes are an integral part of these consolidated financial statements.

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

	For the Years Ended December 31,		
	2020	2019	2018
Cash flows from operating activities:			
Net income (loss)	\$ (764,614)	\$ (187,001)	\$ 508,407
Adjustments to reconcile net income (loss) to net cash provided by operating activities:			
Net gain on divestiture activity	(91)	(862)	(426,917)
Depletion, depreciation, amortization, and asset retirement obligation liability accretion	784,987	823,798	665,313
Impairment	1,016,013	33,842	49,889
Stock-based compensation expense	14,999	24,318	23,908
Net derivative (gain) loss	(161,576)	97,539	(161,832)
Derivative settlement gain (loss)	351,261	39,222	(135,803)
Amortization of debt discount and deferred financing costs	17,704	15,474	15,258
(Gain) loss on extinguishment of debt	(280,081)	—	26,740
Deferred income taxes	(192,540)	(41,835)	141,708
Other, net	(6,709)	2,220	287
Changes in working capital:			
Accounts receivable	29,100	(39,556)	(20,775)
Prepaid expenses and other	5,873	6,130	(729)
Accounts payable and accrued expenses	(23,382)	50,278	35,175
Net cash provided by operating activities	790,944	823,567	720,629
Cash flows from investing activities:			
Net proceeds from the sale of oil and gas properties	92	13,059	748,509
Capital expenditures	(547,785)	(1,023,769)	(1,303,188)
Acquisition of proved and unproved oil and gas properties	(7,873)	(2,581)	(33,255)
Net cash used in investing activities	(555,566)	(1,013,291)	(587,934)
Cash flows from financing activities:			
Proceeds from revolving credit facility	1,447,000	1,589,000	—
Repayment of revolving credit facility	(1,476,500)	(1,466,500)	—
Debt issuance costs related to 10.0% Senior Secured Notes due 2025	(13,069)	—	—
Net proceeds from Senior Notes	—	—	492,079
Cash paid to repurchase Senior Notes	(189,998)	—	(845,002)
Net proceeds from sale of common stock	1,464	3,209	3,187
Dividends paid	(2,276)	(11,254)	(11,191)
Other, net	(1,999)	(2,686)	(7,746)
Net cash provided by (used in) financing activities	(235,378)	111,769	(368,673)
Net change in cash, cash equivalents, and restricted cash	—	(77,955)	(235,978)
Cash, cash equivalents, and restricted cash at beginning of period	10	77,965	313,943
Cash, cash equivalents, and restricted cash at end of period	\$ 10	\$ 10	\$ 77,965
Supplemental schedule of additional cash flow information and non-cash activities:			
Operating activities:			
Cash paid for interest, net of capitalized interest	\$ (140,493)	\$ (141,902)	\$ (150,727)
Net cash (paid) refunded for income taxes	\$ 6,664	\$ 6,109	\$ (2,995)
Investing activities:			
Decrease in capital expenditure accruals and other	\$ (7,965)	\$ (24,289)	\$ (2,774)
Non-cash investing and financing activities ⁽¹⁾⁽²⁾			

(1) Please refer to Note 3 – *Acquisitions, Divestitures, and Assets Held for Sale* for discussion of the carrying value of properties exchanged during the years ended December 31, 2020, 2019, and 2018.

(2) Please refer to Note 5 – *Long-Term Debt* for discussion of the debt transactions executed during the years ended December 31, 2020, and 2018.

The accompanying notes are an integral part of these consolidated financial statements.

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, 2020, 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 consists 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, collectibility 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* for 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,		
	2020	2019	2018
Major customer #1 ⁽¹⁾	— %	18 %	18 %
Major customer #2 ⁽¹⁾	20 %	14 %	5 %
Major customer #3 ⁽¹⁾	24 %	13 %	7 %
Major customer #4 ⁽¹⁾	6 %	9 %	10 %
Major customer #5 ⁽¹⁾	15 %	4 %	— %
Group #1 of entities under common control ⁽²⁾	5 %	13 %	18 %
Group #2 of entities under common control ⁽²⁾	7 %	11 %	12 %

⁽¹⁾ These major customers are purchasers of a portion of the Company's production from its Midland Basin assets and South Texas assets.

⁽²⁾ In the aggregate, these groups of entities under common control represented purchasers of more than 10% 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% 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, 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 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, exploratory well costs are capitalized pending further evaluation of whether economically recoverable reserves have been found. If economically recoverable reserves are found, exploratory well costs will be capitalized as proved properties and will be accounted for following the successful efforts method of accounting described above. If economically recoverable 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 economic 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 11 – 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 3 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 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, 2020, and 2019.

Derivative Financial Instruments

The Company periodically enters into commodity derivative instruments to mitigate a portion of its exposure to potentially adverse market changes in commodity prices 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. For additional discussion on derivatives, please refer to *Note 10 – Derivative Financial Instruments*.

Revenue Recognition

The Company derives revenue primarily 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. 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, 2020, 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. These are more fully described in *Note 7 – Compensation Plans*. 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.

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 8 – Pension Benefits* for 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 a \$93.0 million balance under its revolving credit facility as of December 31, 2020, compared with a \$122.5

million balance as of December 31, 2019. The Company's Senior Notes, as defined in *Note 5 – Long-Term Debt* in Part II, Item 8 of this report, are recorded at cost, net of any unamortized discount and deferred financing costs, and their respective fair values are disclosed in *Note 11 – Fair Value Measurements*. The Company's warrants 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.

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. The Company has not been involved in any unconsolidated SPE transactions in 2020 or 2019.

Recently Issued Accounting Standards

In February 2016, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") No. 2016-02, *Leases (Topic 842)*, followed by other related ASUs that provided targeted improvements and additional practical expedient options (collectively "ASU 2016-02" or "Topic 842"). The Company adopted ASU 2016-02 on January 1, 2019, using the modified retrospective method. The Company elected as part of its adoption to also use the optional transition methodology whereby lease accounting for previously reported periods continues to be reported in accordance with historical accounting guidance for leases in effect for those prior periods. Policy elections and practical expedients the Company implemented in connection with the adoption of ASU 2016-02 include (a) excluding from the balance sheet leases with terms that are less than one year, (b) for agreements that contain both lease and non-lease components, combining these components together and accounting for them as a single lease, (c) the package of practical expedients, which among other requirements, allows the Company to avoid reassessing contracts that commenced prior to adoption that were properly evaluated under legacy GAAP, and (d) excluding land easements that existed or expired before adoption of ASU 2016-02. The scope of ASU 2016-02 does not apply to leases used in the exploration or use of minerals, oil, natural gas, or other similar non-regenerative resources.

Upon adoption on January 1, 2019, the Company recognized approximately \$50.0 million in right-of-use ("ROU") assets and related lease liabilities for its operating leases. There was no cumulative effect adjustment to retained earnings upon the adoption of this guidance. Please refer to *Note 12 - Leases* for additional discussion.

In June 2016, the FASB issued ASU No. 2016-13, *Financial Instruments-Credit Losses (Topic 326): Measurement of Credit Losses on Financial Instruments*, followed by other related ASUs that provided targeted improvements (collectively "ASU 2016-13"). ASU 2016-13 provides financial statement users with more decision-useful information about the expected credit losses on financial instruments and other commitments to extend credit held by a reporting entity at each reporting date. The Company adopted ASU 2016-13 on January 1, 2020, using the modified retrospective method, and there was no material impact to the Company's accompanying consolidated financial statements or related disclosures.

In August 2018, the FASB issued ASU No. 2018-15, *Intangibles-Goodwill and Other-Internal-Use Software (Subtopic 350-40): Customer's Accounting for Implementation Costs Incurred in a Cloud Computing Arrangement That Is a Service Contract* ("ASU 2018-15"). ASU 2018-15 aligns the requirements for capitalizing implementation costs incurred in a hosting arrangement that is a service contract with the requirements for capitalizing implementation costs incurred to develop or obtain internal-use software. The Company adopted ASU 2018-15 on January 1, 2020, with prospective application, and there was no material impact to the Company's accompanying consolidated financial statements or related disclosures.

In December 2019, the FASB issued ASU No. 2019-12, *Income Taxes (Topic 740): Simplifying the Accounting for Income Taxes* ("ASU 2019-12"). ASU 2019-12 was issued as a means to reduce the complexity of accounting for income taxes for those entities that fall within the scope of the accounting standard. The guidance is to be applied using a prospective method, excluding amendments related to franchise taxes, which should be applied on either a retrospective basis for all periods presented or a modified retrospective basis through a cumulative-effect adjustment to retained earnings as of the beginning of the fiscal year of adoption. The Company adopted ASU 2019-12 on January 1, 2020, and there was no material impact on the Company's accompanying consolidated financial statements or related disclosures.

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”) followed by ASU No. 2021-01, *Reference Rate Reform (Topic 848): Scope* (“ASU 2021-01”), issued in January 2021 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. As of December 31, 2020, the Company has not elected to use the optional guidance and continues to evaluate the options provided by ASU 2020-04 and ASU 2021-01. 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 plans to adopt ASU 2020-06 on January 1, 2022, and does not expect a material impact on the Company's accompanying consolidated financial statements or related disclosures.

There are no other ASUs applicable to the Company that would have a material effect on the Company's consolidated financial statements and related disclosures that have been issued but not yet adopted by the Company as of December 31, 2020, and through the filing of this report.

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, 2020, 2019, and 2018:

For the year ended December 31, 2020			
	Midland Basin	South Texas	Total
(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 %

Note: Amounts may not calculate due to rounding.

For the year ended December 31, 2019			
	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 %

Note: Amounts may not calculate due to rounding.

For the year ended December 31, 2018				
	Midland Basin	South Texas	Rocky Mountain ⁽¹⁾	Total
(in thousands)				
Oil production revenue	\$ 938,004	\$ 72,821	\$ 54,851	\$ 1,065,676
Gas production revenue	125,603	227,252	1,595	354,450
NGL production revenue	1,000	214,441	790	216,231
Total	\$ 1,064,607	\$ 514,514	\$ 57,236	\$ 1,636,357
Relative percentage	65 %	32 %	3 %	100 %

Note: Amounts may not calculate due to rounding.

⁽¹⁾ Following the divestiture of the Company's remaining assets in the Rocky Mountain region during the first half of 2018, there has been no production revenue from this region after the second quarter of 2018.

The Company recognizes oil, gas, and NGL production revenue at the point in time when custody and title ("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 the customer 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, 2020, and 2019, were \$108.9 million and \$146.3 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 – Acquisitions, Divestitures, and Assets Held for Sale

2020 Acquisition Activity

During the third quarter of 2020, the Company completed a non-monetary acreage trade of primarily undeveloped properties located in Upton County, Texas, resulting in the exchange of approximately 535 net acres, with \$6.5 million of carrying value attributed to the properties transferred by the Company. This trade was recorded at carryover basis with no gain or loss recognized.

During the year ended December 31, 2020, the Company acquired approximately 380 net acres of proved and unproved properties located in Martin County, Texas, in two separate transactions which closed in 2020. Combined total cash consideration paid by the Company was \$7.9 million.

2019 Acquisition Activity

During 2019, the Company completed several non-monetary acreage trades of primarily undeveloped properties located in Howard, Martin, and Midland Counties, Texas, resulting in the exchange of approximately 2,200 net acres, with \$73.4 million of carrying value attributed to the properties transferred by the Company. These trades were recorded at carryover basis with no gain or loss recognized.

2018 Acquisition Activity

During the year ended December 31, 2018, the Company acquired approximately 1,030 net acres of primarily unproved properties located in Howard and Martin Counties, Texas, in two separate transactions which closed in 2018. Combined total cash consideration paid by the Company was \$33.3 million. Under authoritative accounting guidance, these transactions were both individually considered to be asset acquisitions. Therefore, the properties were recorded based on the fair value of the total consideration transferred on the acquisition date and the transaction costs were capitalized as a component of the cost of the assets acquired.

During the third quarter of 2018, the Company completed two non-monetary acreage trades of primarily undeveloped properties located in Howard and Martin Counties, Texas, which resulted in the exchange of approximately 2,650 net acres, with \$95.1 million of carrying value attributed to the properties transferred by the Company. These trades were recorded at carryover basis with no gain or loss recognized.

2018 Divestiture Activity

PRB Divestiture. On March 26, 2018, the Company completed the PRB Divestiture, divesting of approximately 112,000 net acres for total cash received at closing, net of costs (“net divestiture proceeds”), of \$492.2 million, and recorded a final net gain of \$410.6 million for the year ended December 31, 2018.

Divide County Divestiture and Half East Divestiture. During the second quarter of 2018, the Company completed the Divide County Divestiture and the Half East Divestiture, for combined net divestiture proceeds of \$252.2 million, and recorded a combined final net gain of \$15.4 million for the year ended December 31, 2018.

The Divide County Divestiture was considered a disposal of a significant asset group. The loss before income taxes from the Divide County, North Dakota assets sold for the year ended December 31, 2018, was \$29.0 million. Loss before income taxes reflects oil, gas, and NGL production revenue, less oil, gas, and NGL production expense, depletion, depreciation, amortization, and asset retirement obligation liability accretion expense, impairment expense, and net loss on divestiture activity.

The Company determined that executed asset sales in 2018 did not qualify for discontinued operations accounting under financial statement presentation authoritative guidance.

Note 4 – Income Taxes

The provision for income taxes consists of the following:

	For the Years Ended December 31,		
	2020	2019	2018
(in thousands)			
Current portion of income tax (expense) benefit			
Federal	\$ —	\$ 3,826	\$ —
State	(449)	(1,618)	(1,662)
Deferred portion of income tax (expense) benefit	192,540	41,835	(141,708)
Income tax (expense) benefit	<u>\$ 192,091</u>	<u>\$ 44,043</u>	<u>\$ (143,370)</u>
Effective tax rate	20.1 %	19.1 %	22.0 %

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

	As of December 31,	
	2020	2019
(in thousands)		
Deferred tax liabilities		
Oil and gas properties excluding asset retirement obligation liabilities	\$ 83,816	\$ 224,686
Derivative assets	—	4,646
Other	10,054	12,361
Total deferred tax liabilities	<u>93,870</u>	<u>241,693</u>
Deferred tax assets		
Derivative liabilities	36,311	—
Debt discount and deferred financing costs	23,925	—
Asset retirement obligation liabilities	18,424	19,658
Credit carryover	7,543	11,270
Pension	7,183	5,971
Federal and state tax net operating loss carryovers	3,898	4,172
Stock compensation	2,701	3,503
Other liabilities	7,273	10,803
Total deferred tax assets	<u>107,258</u>	<u>55,377</u>
Valuation allowance	(13,388)	(3,070)
Net deferred tax assets	<u>93,870</u>	<u>52,307</u>
Total net deferred tax liabilities	<u>\$ —</u>	<u>\$ 189,386</u>
Current federal income tax refundable	\$ —	\$ 3,885
Current state income tax payable	\$ 853	\$ 1,404

As of December 31, 2020, the Company has recorded the utilization of its federal net operating loss (“NOL”) carryforward and has remaining state NOL carryforwards of \$4.9 million. The state NOLs and de minimus state tax credits expire between 2021 and 2040. The Company has a federal research and development (“R&D”) credit carryforward of \$7.5 million, which will expire between 2028 and 2033 if not used. The Company’s current valuation allowance relates to state NOL carryforwards and state tax credits, which are expected to expire before they can be utilized, and tax-effected unrealized derivative liabilities in excess of its net deferred liability balance.

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,		
	2020	2019	2018
	(in thousands)		
Federal statutory tax (expense) benefit	\$ 200,908	\$ 48,519	\$ (136,873)
(Increase) decrease in tax resulting from:			
State tax (expense) benefit (net of federal benefit)	5,722	(260)	(2,771)
Change in valuation allowance	(10,318)	13	(105)
Employee share-based compensation	(2,578)	(3,346)	(2,508)
Other	(1,643)	(883)	(1,113)
Income tax (expense) benefit	<u>\$ 192,091</u>	<u>\$ 44,043</u>	<u>\$ (143,370)</u>

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. As a result of the 2018 divestitures, the Company's state apportionment rate reflects its significant Texas presence.

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 2017, 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, 2020, 2019, and 2018, was \$446,000. The Company does not expect a significant change to the recorded unrecognized tax benefits in 2021.

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, 2020, and 2019:

	As of December 31, 2020	As of December 31, 2019
	(in thousands)	
Revolving credit facility	\$ 93,000	\$ 122,500
Senior Secured Notes ⁽¹⁾	460,656	—
Senior Unsecured Notes ⁽¹⁾	1,660,663	2,610,298
Total	<u>\$ 2,214,319</u>	<u>\$ 2,732,798</u>

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

During the year ended December 31, 2020, the Company executed multiple transactions to reduce outstanding debt. During the second quarter of 2020, the Company initiated an offer to exchange certain of its outstanding senior unsecured notes, as presented in the *Senior Unsecured Notes* section below ("Senior Unsecured Notes"), other than the 1.50% Senior Convertible Notes due 2021 ("2021 Senior Convertible Notes," and together with the Senior Unsecured Notes, "Old Notes"), and entered into a private exchange of certain of its outstanding 2021 Senior Convertible Notes and portions of its outstanding Senior Unsecured Notes ("Private Exchange"), in each case for newly issued 10.0% Senior Secured Second Lien Notes due January 15, 2025 ("2025 Senior Secured Notes"), referred to together as "Exchange Offers." In connection with the Exchange Offers, the Company and its lenders amended the Credit

Agreement to increase the amount of permitted second lien indebtedness to an aggregate amount of \$1.0 billion, inclusive of the 2021 Senior Convertible Notes ("Permitted Second Lien Debt"). Additionally, the Company amended the indenture governing its 2021 Senior Convertible Notes, by entering into the Third Supplemental Indenture, dated as of April 29, 2020 ("Third Supplemental Indenture"), to the original Indenture, dated as of May 21, 2015, as supplemented and amended by the Second Supplemental Indenture, dated as of August 12, 2016, collectively referred to as the ("2021 Notes Indenture"). The Third Supplemental Indenture provides that the Company will satisfy any conversion obligation solely in cash.

On June 17, 2020 ("Settlement Date"), 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, as well as, in connection with the Private Exchange, (a) \$53.5 million in cash to certain holders of the 2021 Senior Convertible Notes and (b) warrants to acquire up to an aggregate of approximately 5.9 million shares, or approximately five percent of its outstanding common stock, exercisable upon the occurrence of certain future triggering events, to certain holders who exchanged Old Notes in the Private Exchange. Please refer to *Note 11 – Fair Value Measurements* for more information regarding the warrants issued by the Company. Pursuant to the 2021 Notes Indenture, upon the issuance of Permitted Second Lien Debt, the remaining outstanding 2021 Senior Convertible Notes became secured and are subsequently referred to as the "2021 Senior Secured Convertible Notes," and together with the 2025 Senior Secured Notes, the "Senior Secured Notes."

For a summary of the principal amounts of the Senior Unsecured Notes tendered as of the Settlement Date, please refer to the *Senior Unsecured Notes* section below.

The Company retired \$611.9 million and \$107.0 million in aggregate principal amount of its Senior Unsecured Notes and 2021 Senior Convertible Notes, respectively, upon the closing of the Exchange Offers. Upon closing, the Company paid \$8.9 million of accrued and unpaid interest and accelerated \$5.6 million of previously unamortized deferred financing costs associated with the retired Senior Unsecured Notes and 2021 Senior Convertible Notes and accelerated \$6.1 million of previously unamortized debt discount associated with the retired 2021 Senior Convertible Notes. The Exchange Offers resulted in a net gain on extinguishment of debt of \$227.3 million. The Company cancelled all retired Senior Unsecured Notes and 2021 Senior Convertible Notes upon the closing of the Exchange Offers.

Additionally, during 2020, in open market transactions, the Company repurchased a total of \$190.3 million in aggregate principal amount of its 2022 Senior Notes and 2024 Senior Notes 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 of accelerated unamortized deferred financing costs. The Company canceled all repurchased 2022 Senior Notes and 2024 Senior Notes upon settlement.

Please refer to the *Credit Agreement* and *Senior Notes* sections below for additional information.

Credit Agreement

The Company's Credit Agreement provides for a senior secured revolving credit facility with a maximum loan amount of \$2.5 billion. During the second quarter of 2020, as a result of lower commodity prices and a corresponding decrease in the value of the Company's proved reserves, the borrowing base and aggregate lender commitments under the Credit Agreement were both reduced to \$1.1 billion. Also during the second quarter of 2020, the Company entered into the Third Amendment and the Fourth Amendment to the Credit Agreement (collectively, the "Amendments"), which permitted the Company to incur new second lien debt of up to \$827.5 million prior to October 1, 2020, provided that all principal amounts of such debt are used to redeem unsecured senior debt of the Company for less than or equal to 80% of par value. The Amendments also permitted the Company to grant a second-priority security interest to the holders of the Company's outstanding 2021 Senior Convertible Notes to secure the Company's obligations under the 2021 Senior Convertible Notes. Additionally, the Amendments reduced the amount of dividends that the Company may declare and pay on an annual basis from \$50.0 million to \$12.0 million. During the fourth quarter of 2020, the Company and its lenders completed the fall semi-annual borrowing base redetermination and entered into the Fifth Amendment to the Credit Agreement, which reaffirmed the Company's borrowing base and aggregate lender commitments at existing levels and extended the Company's ability to incur Permitted Second Lien Debt until the next scheduled borrowing base redetermination date of April 1, 2021. As of December 31, 2020, the Company had \$380.8 million of available Permitted Second Lien Debt capacity.

The Credit Agreement is scheduled to mature on September 28, 2023, except that, pursuant to the Amendments, newly issued Permitted Second Lien Debt used to redeem any portion of the remaining 2022 Senior Notes must have maturities on or after 180 days after September 28, 2023; otherwise, the maturity date of the Credit Agreement will be July 2, 2023. Without regard to which maturity date is in effect, the maturity date could occur earlier on August 16, 2022, if the Company has not completed certain repurchase, redemption, or refinancing activities associated with its 2022 Senior Notes, and does not have certain unused availability for borrowing under the Credit Agreement, as outlined in the Credit Agreement.

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. The Third Amendment to the Credit Agreement amended the borrowing base utilization grid 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⁾ 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. Please refer to *Note 1 – Summary of Significant Accounting Policies* for discussion of FASB ASU 2020-04, which provides 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 4, 2021, December 31, 2020, and December 31, 2019:

	As of February 4, 2021	As of December 31, 2020	As of December 31, 2019
	(in thousands)		
Revolving credit facility ⁽¹⁾	\$ 121,500	\$ 93,000	\$ 122,500
Letters of credit ⁽²⁾	42,000	42,000	—
Available borrowing capacity	936,500	965,000	1,077,500
Total aggregate lender commitment amount	\$ 1,100,000	\$ 1,100,000	\$ 1,200,000

⁽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 \$4.3 million and \$5.9 million as of December 31, 2020, and 2019, 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 Notes

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

	As of December 31, 2020			
	Principal Amount	Unamortized Debt Discount	Unamortized Deferred Financing Costs	Net
	(in thousands)			
10.0% Senior Secured Notes due 2025	\$ 446,675	\$ 37,943	\$ 11,558	\$ 397,174
1.50% Senior Secured Convertible Notes due 2021 ⁽¹⁾	65,485	1,828	175	63,482
Total	\$ 512,160	\$ 39,771	\$ 11,733	\$ 460,656

⁽¹⁾ As discussed above, as required by the 2021 Notes Indenture and as permitted by the Credit Agreement, as the Company issued Permitted Second Lien Debt upon the closing of the Exchange Offers, its remaining 2021 Senior Convertible Notes contemporaneously became secured.

2025 Senior Secured Notes. On June 17, 2020, the Company issued \$446.7 million in aggregate principal amount of 2025 Senior Secured Notes due 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 amortized to interest expense through the maturity date.

In connection with the issuance of the 2025 Senior Secured Notes, the Company entered into an indenture dated as of June 17, 2020 with UMB Bank, N.A., as trustee, governing the 2025 Senior Secured Notes ("2025 Notes Indenture"). 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 2025 Notes Indenture.

The 2025 Senior Secured Notes are senior obligations of the Company, secured on a second-priority basis, ranking junior to the Company's obligations under the Credit Agreement and equal in priority with the 2021 Senior Secured Convertible Notes. The 2025 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 due July 1, 2021, unless earlier converted. The Company received net proceeds of \$166.6 million after deducting fees of \$5.9 million, of which a portion is being amortized over the life of the 2021 Senior Convertible Notes. Upon the issuance 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.

During the second quarter of 2020, pursuant to the Third Supplemental Indenture, the Company agreed to satisfy any conversion obligation solely in cash, resulting in reclassification of the fair value of the equity components out of additional paid-in capital. As of December 31, 2019, the net carrying amount of the equity component of the Senior Convertible Notes recorded in additional paid-in capital on the accompanying balance sheets was \$33.6 million. The debt discount and debt-related issuance costs are being 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 totaled \$7.7 million, \$11.0 million, and \$10.5 million for the years ended December 31, 2020, 2019, and 2018, respectively.

Upon the closing of the Exchange Offers, the Company retired \$107.0 million in aggregate principal amount of its 2021 Senior Convertible Notes. Upon issuance of the 2025 Senior Secured Notes, which was Permitted Second Lien Debt, as required by the 2021 Notes Indenture, and as permitted by the Credit Agreement, the remaining 2021 Senior Convertible Notes became secured senior obligations of the Company on a second-priority basis, ranking junior to the Company's obligations under the Credit Agreement and equal in priority with the 2025 Senior Secured Notes. The 2021 Senior Secured Convertible Notes rank senior in right of payment to all of the Company's existing and any future unsecured senior or subordinated debt.

Prior to January 1, 2021, holders could convert their 2021 Senior Convertible Notes at their option only under certain circumstances as defined by the 2021 Notes Indenture. The 2021 Senior Secured Convertible Notes were not convertible at the option of holders as of December 31, 2020. Notwithstanding the inability to convert as of December 31, 2020, the if-converted value of the 2021 Senior Secured Convertible Notes did not exceed the principal amount as of December 31, 2020, or through the filing of this report. On or after January 1, 2021, until the maturity date, holders may convert their 2021 Senior Secured Convertible Notes at any time. Holders may convert their notes based on a conversion rate of 24.6914 shares of the Company's common stock per \$1,000 principal amount of the 2021 Senior Secured Convertible Notes, which is equal to an initial conversion price of approximately \$40.50 per share, subject to adjustment. The Company may not redeem the 2021 Senior Convertible Notes prior to the maturity date.

The Company has the ability, and currently intends to settle its 2021 Senior Secured Convertible Notes obligation, due July 1, 2021, with borrowings under its revolving credit facility.

If the Company undergoes a fundamental change, as defined by the 2021 Notes Indenture, holders of the 2021 Senior Secured Convertible Notes may require the Company to repurchase for cash all or any portion of their notes at a fundamental change repurchase price equal to 100% of the principal amount of the 2021 Senior Secured Convertible Notes to be repurchased, plus accrued and unpaid interest. The 2021 Notes Indenture contains customary events of default with respect to the 2021 Senior Secured Convertible Notes, including that upon certain events of default, the trustee by notice to the Company, or the holders of at least 25% in principal amount of the outstanding 2021 Senior Secured Convertible Notes by notice to the Company, may declare 100% of the principal and accrued and unpaid interest, if any, due and payable immediately. In case of certain events of bankruptcy, insolvency or reorganization involving the Company or a significant subsidiary, 100% of the principal and accrued and unpaid interest on the Senior Convertible Notes will automatically become due and payable.

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 capped call transactions are generally expected to partially offset any cash payments the Company is required to make in excess of the principal amount of converted 2021 Senior Secured Convertible Notes in the event that the market price per share of the Company's common stock is greater than the strike price of the capped call transactions, which initially corresponds to the approximate \$40.50 per share conversion price of the 2021 Senior Secured Convertible Notes. The cap price of the capped call transactions is initially \$60.00 per share. If the market price per share exceeds the cap price of the capped call transactions, there would not be an offset of such potential cash payments. The Company classified the costs associated with the capped call transactions as equity instruments with no recurring fair value measurement recorded. As discussed above, during the second quarter of 2020, the fair value of this equity instrument was reclassified out of additional paid-in capital upon the Company's agreement to satisfy any conversion obligation solely in cash.

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, 2020, and 2019, consisted of the following:

	As of December 31, 2020			As of December 31, 2019		
	Principal Amount	Unamortized Deferred Financing Costs	Principal Amount, Net	Principal Amount	Unamortized Deferred Financing Costs	Principal Amount, Net
(in thousands)						
6.125% Senior Notes due 2022	\$ 212,403	\$ 855	\$ 211,548	\$ 476,796	\$ 2,920	\$ 473,876
5.0% Senior Notes due 2024	277,034	1,576	275,458	500,000	3,766	496,234
5.625% Senior Notes due 2025	349,118	2,792	346,326	500,000	4,903	495,097
6.75% Senior Notes due 2026	419,235	3,970	415,265	500,000	5,571	494,429
6.625% Senior Notes due 2027	416,791	4,725	412,066	500,000	6,601	493,399
1.50% Senior Convertible Notes due 2021 ⁽¹⁾⁽²⁾	—	—	—	172,500	15,237	157,263
Total	\$ 1,674,581	\$ 13,918	\$ 1,660,663	\$ 2,649,296	\$ 38,998	\$ 2,610,298

(1) Unamortized deferred financing costs attributable to the 2021 Senior Convertible Notes include \$13.9 million related to the unamortized debt discount as of December 31, 2019.

(2) As discussed above, as required by the 2021 Notes Indenture and as permitted by the Credit Agreement, as the Company issued Permitted Second Lien Debt upon the closing of the Exchange Offers, its remaining 2021 Senior Convertible Notes contemporaneously became secured.

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.

Upon the closing of the Exchange Offers, the Company retired \$611.9 million in aggregate principal amount of its Senior Unsecured Notes. Portions of the then-outstanding 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

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. The Company received net proceeds of \$590.0 million after deducting fees of \$10.0 million, which are being amortized as deferred financing costs over the life of the 2022 Senior Notes. During 2016, the Company repurchased \$38.2 million in aggregate principal amount of its 2022 Senior Notes

for a settlement amount of \$24.3 million, excluding accrued interest. During 2018, the Company retired \$85.0 million of its 2022 Senior Notes for a total settlement amount of \$88.1 million, excluding accrued interest. During 2020, the Company repurchased \$122.7 million in aggregate principal amount of its 2022 Senior Notes for a settlement amount of \$94.2 million, excluding accrued interest.

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. The Company received net proceeds of \$490.2 million after deducting fees of \$9.8 million, which are being amortized as deferred financing costs over the life of the 2024 Senior Notes. During 2020, the Company repurchased \$67.6 million in aggregate principal amount of its 2024 Senior Notes for a total settlement amount of \$42.3 million, excluding accrued interest.

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, which are being amortized as deferred financing costs over the life of the 2025 Senior Notes.

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, which are being amortized as deferred financing costs over the life of the 2026 Senior Notes.

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, which are being amortized as deferred financing costs over the life of the 2027 Senior Notes.

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, 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, create liens that secure debt, enter into transactions with affiliates, and merge or consolidate with another company. 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, 2020, and through the filing of this report.

Capitalized Interest

Capitalized interest costs for the years ended December 31, 2020, 2019, and 2018, totaled \$15.8 million, \$18.5 million, and \$20.6 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, 2020, the Company has entered into various agreements, which include drilling rig contracts of \$5.9 million, gathering, processing, transportation throughput, and delivery commitments of \$161.6 million, office leases, including maintenance, of \$22.1 million, fixed price contracts to purchase electricity of \$45.4 million, and other miscellaneous contracts and leases of \$14.3 million. As of December 31, 2020, 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)
2021	\$ 86,776
2022	79,919
2023	45,474
2024	12,455
2025	11,463
Thereafter	13,233
Total	\$ 249,320

Drilling Rig and Completion Service Contracts. The Company has drilling rig and completion service contracts in place to facilitate its drilling and completion plans. During the twelve months ended December 31, 2020, and through the filing of this report, the Company entered into new and amended drilling rig contracts resulting in the reduction of day rates and potential early termination fees and the extension of contract terms. As of the filing of this report, the Company's drilling rig commitments totaled \$19.9 million under contract terms extending through the first 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 \$11.6 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, 2020, potential penalties under this completion service agreement, which expires on December 31, 2023, range from zero to a maximum of \$10.1 million. No material expenses related to early termination or standby fees were incurred by the Company during the year ended December 31, 2020, and the Company does not expect to incur material penalties with regard to its drilling rig and completion service contracts during 2021.

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, 2020, the Company has commitments to deliver a minimum of 16 MMBbl of oil and 257 Bcf of gas through 2024, and 17 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, 2020, if the Company fails to deliver any product, as applicable, the aggregate undiscounted deficiency payments total approximately \$161.6 million. This amount does not include deficiency payment estimates associated with approximately 11.9 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 with terms extending as far as 2026. Rent expense for the years ended December 31, 2020, 2019, and 2018, was \$5.4 million, \$5.5 million, and \$4.5 million, respectively.

Electrical Power Purchase Contracts. As of December 31, 2020, the Company had a fixed price contract for the purchase of electrical power through 2027 with a total remaining obligation of \$45.4 million.

Delivery and Purchase Commitments. As of December 31, 2020, 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, 2020, 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 the second quarter of 2020, the Company entered into an agreement that included minimum drilling and completion footage requirements on certain existing leases in South Texas. If these minimum

requirements are not satisfied by March 31, 2021, 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, 2020, the liquidated damages could range from zero to a maximum of \$26.9 million, with the maximum exposure assuming no additional development activity occurred prior to March 31, 2021. The Company also entered into an agreement that included a minimum number of wells drilled and completed on certain existing leases in South Texas. If these minimum requirements are not satisfied by December 31, 2021, the Company will be required to pay liquidated damages based on the difference between the actual number of wells drilled and completed and the minimum requirements. As of December 31, 2020, the liquidated damages could range from zero to a maximum of \$11.5 million, with the maximum exposure assuming no additional development activity occurred prior to December 31, 2021. No liquidated damages related to these agreements were incurred by the Company during the year ended December 31, 2020, and the Company expects to meet its obligations under both agreements.

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

There are several components to the Company's Equity Plan that are described in this section. As of December 31, 2020, approximately 3.8 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 generally grants 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 a three-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 was granted, vest in each portion of that award equally in six-month increments over a three-year period beginning at 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 with a stochastic Monte Carlo simulation using geometric Brownian motion ("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 those iterations. 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 2017, which the Company determined to be equity awards, the settlement criteria included a combination of the Company's Total Shareholder Return ("TSR") on an absolute basis, and the Company's TSR relative to the TSR of certain peer companies over the associated three-year performance period. The fair value of the PSUs granted in 2017 was measured on the grant date using the GBM Model. As these awards depended entirely on market-based settlement criteria, the associated compensation expense was recognized on a straight-line basis within general and administrative expense and exploration expense over the vesting period of the awards. These awards fully vested during 2020 and were settled as discussed below.

For PSUs granted in 2018 and 2019, the settlement criteria include a combination of the Company's 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 Company records compensation expense associated with the issuance of PSUs based on the fair value of the awards as of the date of grant. Total compensation expense recorded for PSUs was \$4.4 million, \$10.9 million, and \$10.3 million for the years ended December 31, 2020, 2019, and 2018, respectively. As of December 31, 2020, there was \$4.4 million of total unrecognized expense related to PSUs, which is being amortized through 2022.

A summary of the status and activity of non-vested PSUs is presented in the following table:

	For the Years Ended December 31,					
	2020		2019		2018	
	PSUs ⁽¹⁾	Weighted-Average Grant-Date Fair Value	PSUs ⁽¹⁾	Weighted-Average Grant-Date Fair Value	PSUs ⁽¹⁾	Weighted-Average Grant-Date Fair Value
Non-vested at beginning of year	2,022,585	\$ 16.87	1,711,259	\$ 20.68	1,533,491	\$ 22.97
Granted	—	\$ —	793,125	\$ 12.80	572,924	\$ 24.45
Vested	(792,572)	\$ 15.85	(346,021)	\$ 26.32	(233,102)	\$ 44.25
Forfeited	(399,549)	\$ 17.56	(135,778)	\$ 16.98	(162,054)	\$ 21.79
Non-vested at end of year	<u>830,464</u>	<u>\$ 17.52</u>	<u>2,022,585</u>	<u>\$ 16.87</u>	<u>1,711,259</u>	<u>\$ 20.68</u>

⁽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.

The fair value of the PSUs granted in 2019, and 2018, was \$10.2 million and \$14.0 million, respectively.

During the year ended December 31, 2020, the Company settled PSUs that were granted in 2017, which earned a 0.9 times multiplier. The Company and the majority of grant participants 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. After withholding 215,451 shares to satisfy income and payroll tax withholding obligations that occurred upon delivery of the shares underlying those PSUs, 485,060 shares of the Company's common stock were issued in accordance with the terms of the applicable PSU awards. During the years ended December 31, 2019, and 2018, PSUs that were granted in 2016, and 2015, respectively, did not satisfy the minimum performance requirements. This resulted in a multiplier of zero times and therefore no shares of common stock were issued upon settlement.

The total fair value of PSUs that vested during the years ended December 31, 2020, 2019, and 2018, was \$12.6 million, \$9.1 million, and \$10.3 million, respectively.

Employee Restricted Stock Units

The Company grants 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 set forth in the Equity Plan. Employees who are retirement eligible at the time an RSU award is granted, vest in each portion of that award equally in six-month increments over the applicable vesting period beginning at 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 date of grant. The fair value of an RSU is equal to the closing price of the Company's common stock on the day 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, 2020, 2019, and 2018, was \$8.7 million, \$11.1 million, and \$10.8 million, respectively. As of December 31, 2020, there was \$14.7 million of total unrecognized compensation expense related to non-vested RSU awards, which is being amortized through 2023.

A summary of the status and activity of non-vested RSUs granted to employees is presented in the following table:

	For the Years Ended December 31,					
	2020		2019		2018	
	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	1,532,131	\$ 16.01	1,243,163	\$ 21.50	1,244,262	\$ 20.25
Granted	1,458,869	\$ 5.98	978,932	\$ 12.36	583,552	\$ 25.77
Vested	(746,132)	\$ 16.74	(466,535)	\$ 21.94	(407,529)	\$ 24.30
Forfeited	(147,008)	\$ 15.34	(223,429)	\$ 18.16	(177,122)	\$ 17.26
Non-vested at end of year	<u>2,097,860</u>	<u>\$ 8.83</u>	<u>1,532,131</u>	<u>\$ 16.01</u>	<u>1,243,163</u>	<u>\$ 21.50</u>

The fair value of RSUs granted to eligible employees in 2020, 2019, and 2018, was \$8.7 million, \$12.1 million, and \$15.0 million, respectively.

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

	For the Years Ended December 31,		
	2020	2019	2018
Shares of common stock issued to settle RSUs ⁽¹⁾	746,132	466,535	407,529
Less: shares of common stock withheld for income and payroll taxes	(209,173)	(132,136)	(115,784)
Net shares of common stock issued	<u>536,959</u>	<u>334,399</u>	<u>291,745</u>

⁽¹⁾ During the years ended December 31, 2020, 2019, and 2018, the Company issued shares of common stock to settle RSUs that related to awards granted in previous years. The Company and a majority of grant recipients 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, 2020, 2019, and 2018, was \$12.5 million, \$10.2 million, and \$9.9 million, respectively.

Director Shares

In 2020, 2019, and 2018, the Company issued 267,576, 96,719, and 63,741 shares, respectively, of its common stock to its non-employee directors under the Equity Plan. For the years ended December 31, 2020, 2019, and 2018, the Company recorded \$990,000, \$1.2 million, and \$1.7 million, respectively, of compensation expense related to director shares and RSUs issued. 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, without accruing in excess of \$25,000 in value from purchases for each calendar year. The purchase price of the stock is 85 percent of the lower of the fair market value of the stock on either the first or last day of the purchase period. The ESPP is intended to qualify under Section 423 of the IRC. The Company had approximately 834,246 shares of its common stock available for issuance under the ESPP as of December 31, 2020. There were 464,757, 314,868, and 199,464 shares issued under the ESPP in 2020, 2019, and 2018, respectively. Total proceeds to the Company for the issuance of these shares was \$1.5 million for the year ended December 31, 2020, and \$3.2 million for each of the years ended 2019 and 2018.

The fair value of ESPP grants is measured at the date of grant 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 were estimated using the following weighted-average assumptions:

	For the Years Ended December 31,		
	2020	2019	2018
Risk free interest rate	0.8 %	2.3 %	1.8 %
Dividend yield	0.7 %	0.7 %	0.4 %
Volatility factor of the expected market price of the Company's common stock	166.2 %	56.6 %	55.9 %
Expected life (in years)	0.5	0.5	0.5

The Company expensed \$874,000 for the year ended December 31, 2020, and \$1.1 million for each of the years ended December 31, 2019, and 2018, based on the estimated fair value of the ESPP grants.

401(k) Plan

The Company has a defined contribution plan (the "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 to six 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 8 – Pension Benefits* for additional discussion of pension benefits. The Company's matching contributions to the 401(k) Plan were \$4.2 million, \$5.1 million, and \$4.9 million for the years ended December 31, 2020, 2019, and 2018, respectively.

Note 8 – 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 as of 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,	
	2020	2019
	(in thousands)	
Change in benefit obligation:		
Projected benefit obligation at beginning of year	\$ 70,843	\$ 66,086
Service cost	4,516	5,582
Interest cost	2,358	2,791
Actuarial loss	7,483	2,035
Benefits paid	(905)	(5,651)
Settlements	(10,702)	—
Projected benefit obligation at end of year	73,593	70,843
Change in plan assets:		
Fair value of plan assets at beginning of year	35,634	30,100
Actual return on plan assets	2,837	3,985
Employer contribution	6,030	7,200
Benefits paid	(905)	(5,651)
Settlements	(10,702)	—
Fair value of plan assets at end of year	32,894	35,634
Funded status at end of year	\$ (40,699)	\$ (35,209)

The Company’s underfunded status for the Pension Plans as of December 31, 2020, and 2019, was \$40.7 million and \$35.2 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,	
	2020	2019
	(in thousands)	
Projected benefit obligation	\$ 73,593	\$ 70,843
Accumulated benefit obligation	\$ 63,934	\$ 60,877
Less: fair value of plan assets	(32,894)	(35,634)
Underfunded accumulated benefit obligation	\$ 31,040	\$ 25,243

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 greater 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, 2020, and 2019, were as follows:

	As of December 31,	
	2020	2019
	(in thousands)	
Unrecognized actuarial losses	\$ 17,328	\$ 14,406
Unrecognized prior service costs	14	31
Accumulated other comprehensive loss	<u>\$ 17,342</u>	<u>\$ 14,437</u>

The pension liability adjustments recognized in other comprehensive income (loss) during 2020, 2019, and 2018, were as follows:

	For the Years Ended December 31,		
	2020	2019	2018
	(in thousands)		
Net actuarial gain (loss)	\$ (6,381)	\$ 377	\$ 4,329
Amortization of prior service cost	17	17	18
Amortization of net actuarial loss	950	958	1,327
Settlements	2,509	—	—
Total pension liability adjustment, pre-tax	<u>(2,905)</u>	<u>1,352</u>	<u>5,674</u>
Tax (expense) benefit	626	(291)	(4,265)
Cumulative effect of accounting change	—	—	2,969
Total pension liability adjustment, net	<u>\$ (2,279)</u>	<u>\$ 1,061</u>	<u>\$ 4,378</u>

Components of Net Periodic Benefit Cost for the Pension Plans

	For the Years Ended December 31,		
	2020	2019	2018
	(in thousands)		
Components of net periodic benefit cost:			
Service cost	\$ 4,516	\$ 5,582	\$ 6,730
Interest cost	2,358	2,791	2,622
Expected return on plan assets that reduces periodic pension benefit cost	(1,735)	(1,574)	(1,862)
Amortization of prior service cost	17	17	18
Amortization of net actuarial loss	950	958	1,327
Net periodic benefit cost	<u>6,106</u>	<u>7,774</u>	<u>8,835</u>
Settlements	2,509	—	—
Total net benefit cost	<u>\$ 8,615</u>	<u>\$ 7,774</u>	<u>\$ 8,835</u>

Pension Plan Assumptions

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

	As of December 31,	
	2020	2019
Projected benefit obligation:		
Discount rate	2.9%	3.6%
Rate of compensation increase	4.4%	4.5%

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

	For the Years Ended December 31,		
	2020	2019	2018
Net periodic benefit cost:			
Discount rate	3.6%	4.4%	3.8%
Expected return on plan assets ⁽¹⁾	5.3%	5.0%	5.5%
Rate of compensation increase	4.5%	6.2%	6.2%

⁽¹⁾ There is no assumed expected return on plan assets for the Nonqualified Pension Plan because there are no 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:

Asset Category	Target	As of December 31,	
	2021	2020	2019
Equity securities	36.0 %	37.0 %	36.9 %
Fixed income securities	37.0 %	24.9 %	38.1 %
Other securities	27.0 %	38.1 %	25.0 %
Total	100.0 %	100.0 %	100.0 %

There is no asset allocation of the Nonqualified Pension Plan since there are no plan assets in the plan. An expected return on plan assets of 5.3 percent, 5.0 percent, and 5.5 percent was used to calculate the Company's net periodic pension cost under the Qualified Pension Plan for the years ended December 31, 2020, 2019, and 2018 respectively. The expected long-term rate of return assumption 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, 2020, and 2019, utilizing the fair value hierarchy discussed in Note 11 – Fair Value Measurements are as follows:

	Actual Asset Allocation ⁽¹⁾	Total	Fair Value Measurements Using:		
			Level 1 Inputs	Level 2 Inputs	Level 3 Inputs
(in thousands)					
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
As of December 31, 2019					
Equity securities:					
Domestic ⁽²⁾	17.3 %	\$ 6,176	\$ 4,130	\$ 2,046	\$ —
International ⁽³⁾	19.6 %	6,958	6,958	—	—
Total equity securities	36.9 %	13,134	11,088	2,046	—
Fixed income securities:					
Core fixed income ⁽⁴⁾	31.4 %	11,199	11,199	—	—
Floating rate corporate loans ⁽⁵⁾	6.7 %	2,379	2,379	—	—
Total fixed income securities	38.1 %	13,578	13,578	—	—
Other securities:					
Real estate ⁽⁶⁾	5.4 %	1,929	—	—	1,929
Collective investment trusts ⁽⁷⁾	3.3 %	1,168	—	1,168	—
Hedge fund ⁽⁸⁾	16.3 %	5,825	2,006	—	3,819
Total other securities	25.0 %	8,922	2,006	1,168	5,748
Total investments	100.0 %	\$ 35,634	\$ 26,672	\$ 3,214	\$ 5,748

(1) Percentages may not calculate due to rounding.

(2) Level 1 equity securities consist of United States large and small capitalization companies, which are actively traded securities that can be sold upon 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.

(3) International equity securities consists 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.

(4) 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, 2019	\$	5,507
Purchases		—
Realized gain on assets		190
Unrealized gain on assets		51
Disposition		—
Balance at December 31, 2019	\$	5,748
Purchases		—
Realized gain on assets		526
Unrealized gain on assets		41
Disposition		(579)
Balance at December 31, 2020	\$	5,736

Contributions

The Company contributed \$6.0 million, \$7.2 million, and \$8.1 million to the Pension Plans for the years ended December 31, 2020, 2019, and 2018, respectively. The Company expects to make a \$7.0 million contribution to the Pension Plans in 2021.

Benefit Payments

The Pension Plans made actual benefit payments of \$11.6 million, \$5.7 million, and \$8.0 million in the years ended December 31, 2020, 2019, and 2018, respectively. Expected benefit payments over the next 10 years are as follows:

For the Years Ending December 31,	Amount	
	(in thousands)	
2021	\$	9,564
2022	\$	3,769
2023	\$	5,390
2024	\$	4,765
2025	\$	5,996
2026 through 2030	\$	24,132

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. As of December 31, 2019, and 2018, 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, which were measured using the treasury stock method. Shares of the Company's common stock traded at an average closing price below the \$40.50 conversion price for the years ended December 31, 2019, and 2018, therefore, the 2021 Senior Convertible Notes had no dilutive impact. In connection with the offering of the 2021 Senior Convertible Notes, the Company entered into capped call transactions with affiliates of the underwriters that would effectively prevent dilution upon settlement up to the \$60.00 cap price. The capped call transactions will always be anti-dilutive and therefore will never be reflected in diluted net income or loss per share. On April 29, 2020, pursuant to the Third Supplemental Indenture, the Company elected to satisfy any conversion obligation with respect to the 2021 Senior Convertible Notes solely in cash. As a result, the Company's 2021 Senior Secured Convertible Notes are no longer convertible into shares of the Company's common stock and thus, were not considered to be a potentially dilutive instrument as of December 31, 2020. Please refer to *Note 5 – Long-Term Debt* for additional discussion.

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, as discussed in *Note 5 – Long-Term Debt*. The Warrant Agreement dated as of June 17, 2020 (“Warrant Agreement”), states that the warrants are only exercisable upon the Triggering Date, as defined in *Note 11 – Fair Value Measurements*. The warrants were not exercisable for the year ended December 31, 2020, and therefore had no dilutive impact. The Triggering Date occurred on January 14, 2021, and the warrants became exercisable at the election of the holders. The warrants may be exercised either in full or from time to time in part, until their expiration on June 30, 2023. Please refer to *Note 11 – Fair Value Measurements* for additional detail regarding the terms of the warrants.

As of December 31, 2020, potentially dilutive securities for this calculation consist primarily of non-vested RSUs, contingent PSUs, and warrants, which were measured using the treasury stock method.

PSUs represent the right to receive, upon settlement of the PSUs after the completion of the three-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 anti-dilutive securities for the years presented:

	For the Years Ended December 31,		
	2020	2019	2018
	(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,		
	2020	2019	2018
	(in thousands, except per share data)		
Net income (loss)	\$ (764,614)	\$ (187,001)	\$ 508,407
Basic weighted-average common shares outstanding	113,730	112,544	111,912
Dilutive effect of non-vested RSUs and contingent PSUs	—	—	1,590
Diluted weighted-average common shares outstanding	113,730	112,544	113,502
Basic net income (loss) per common share	\$ (6.72)	\$ (1.66)	\$ 4.54
Diluted net income (loss) per common share	\$ (6.72)	\$ (1.66)	\$ 4.48

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 potentially adverse market changes in commodity prices and the associated impact on cash flows. As of December 31, 2020, all derivative counterparties were members of the Company’s Credit Agreement lender group and all contracts were entered into for other-than-trading purposes. The Company’s commodity derivative contracts consist of swap and collar arrangements for oil production, and swap arrangements for 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 is higher than 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 price. 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 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 volumes are sold.

Currently, the Company has 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, and between NYMEX WTI and Argus WTI Houston Magellan East Houston Terminal (“MEH”) for a portion of its South Texas production with sales contracts that settle at Argus WTI Houston MEH 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, 2020, the Company had commodity derivative contracts outstanding through the fourth quarter of 2023 as summarized in the tables below.

Oil Swaps

Contract Period	NYMEX WTI Volumes (MBbl)	Weighted-Average Contract Price	
			(per Bbl)
First quarter 2021	3,613	\$	42.91
Second quarter 2021	5,072	\$	39.90
Third quarter 2021	4,862	\$	40.10
Fourth quarter 2021	4,744	\$	39.85
2022	6,601	\$	43.99
2023	1,190	\$	45.20
Total	26,082		

Oil Collars

Contract Period	NYMEX WTI Volumes (MBbl)	Weighted-Average Floor Price		Weighted-Average Ceiling Price	
			(per Bbl)		(per Bbl)
First quarter 2021	551	\$	48.97	\$	51.96
Total	551				

Oil Basis Swaps

Contract Period	WTI Midland- NYMEX WTI Volumes (MBbl)	Weighted- Average Contract Price ⁽¹⁾ (per Bbl)	NYMEX WTI- ICE Brent Volumes (MBbl)	Weighted- Average Contract Price ⁽²⁾ (per Bbl)	WTI Houston MEH-NYMEX WTI Volumes (MBbl)	Weighted- Average Contract Price ⁽³⁾ (per Bbl)
Second quarter 2021	3,385	\$ 0.78	910	\$ (7.86)	493	\$ 0.60
Third quarter 2021	3,574	\$ 0.74	920	\$ (7.86)	356	\$ 0.60
Fourth quarter 2021	3,824	\$ 0.71	920	\$ (7.86)	466	\$ 0.60
2022	9,500	\$ 1.15	3,650	\$ (7.78)	—	\$ —
Total	23,506		7,300		1,488	

⁽¹⁾ Represents the price differential between WTI Midland (Midland, Texas) and NYMEX WTI (Cushing, Oklahoma).

⁽²⁾ Represents the price differential between NYMEX WTI (Cushing, Oklahoma) and ICE Brent (North Sea).

⁽³⁾ Represents the price differential between Argus WTI Houston MEH (Houston, Texas) and NYMEX WTI (Cushing, Oklahoma).

Oil Roll Differential Swaps

Contract Period	NYMEX WTI Volumes	Weighted-Average Contract Price	
	(MBbl)	(per Bbl)	
First quarter 2021	3,367	\$	(0.30)
Second quarter 2021	4,065	\$	(0.24)
Third quarter 2021	3,708	\$	(0.25)
Fourth quarter 2021	3,283	\$	(0.24)
2022	6,002	\$	(0.04)
Total	20,425		

Gas Swaps

Contract Period	IF HSC Volumes	Weighted-Average Contract Price		WAHA Volumes	Weighted-Average Contract Price	
	(BBtu)	(per MMBtu)		(BBtu)	(per MMBtu)	
First quarter 2021	11,592	\$	2.48	6,544	\$	1.76
Second quarter 2021	13,672	\$	2.45	7,230	\$	1.76
Third quarter 2021	12,575	\$	2.40	8,086	\$	1.88
Fourth quarter 2021	12,412	\$	2.41	7,627	\$	1.82
2022	21,119	\$	2.48	10,066	\$	2.30
Total ⁽¹⁾	71,370			39,553		

⁽¹⁾ The Company has natural gas swaps in place that settle against Inside FERC Houston Ship Channel ("IF HSC"), Inside FERC West Texas ("IF WAHA"), and Platt's Gas Daily West Texas ("GD WAHA"). As of December 31, 2020, WAHA volumes were comprised of 59 percent IF WAHA and 41 percent GD WAHA.

NGL Swaps

Contract Period	OPIS Propane Mont Belvieu Non-TET	
	Volumes	Weighted-Average Contract Price
	(MBbl)	(per Bbl)
First quarter 2021	614	\$ 21.58
Second quarter 2021	707	\$ 21.26
Third quarter 2021	735	\$ 21.26
Fourth quarter 2021	714	\$ 21.30
2022	116	\$ 21.21
Total	2,886	

Commodity Derivative Contracts Entered Into Subsequent to December 31, 2020

Subsequent to December 31, 2020, the Company entered into the following fixed price commodity derivative contracts:

Oil Swaps

Index	Start Date	Through Date	Volumes (MBbl)	Weighted-Average Contract Price (per Bbl)	
NYMEX WTI	First quarter 2021	Third quarter 2021	1,048	\$	51.91
NYMEX WTI	First quarter 2022	Fourth quarter 2022	1,222	\$	48.50

Oil Collars

Index	Start Date	Through Date	Volumes (MBbl)	Weighted-Average Floor Price (per Bbl)	Weighted-Average Ceiling Price (per Bbl)
NYMEX WTI	First quarter 2022	Fourth quarter 2022	1,095	\$ 50.00	\$ 53.28

Oil Basis Swaps

Index	Start Date	Through Date	Volumes (MBbl)	Weighted-Average Contract Price (per Bbl)
WTI Midland-NYMEX WTI	First quarter 2021	Third quarter 2021	1,095	\$ 0.95
WTI Houston MEH-NYMEX WTI	First quarter 2022	Fourth quarter 2022	1,329	\$ 1.25

Oil Roll Differential Swaps

Index	Start Date	Through Date	Volumes (MBbl)	Weighted-Average Contract Price (per Bbl)
NYMEX WTI	First quarter 2021	Fourth quarter 2021	2,213	\$ 0.30
NYMEX WTI	First quarter 2022	Fourth quarter 2022	5,276	\$ 0.27

Gas Swaps

Index	Start Date	Through Date	Volumes (BBtu)	Weighted-Average Contract Price (per MMBtu)
IF HSC	First quarter 2022	Fourth quarter 2022	7,813	\$ 2.64
IF WAHA	First quarter 2022	Fourth quarter 2022	3,650	\$ 2.30

NGL Swaps

Index	Start Date	Through Date	Volumes (MBbl)	Weighted-Average Contract Price (per Bbl)
OPIS Propane Mont Belvieu Non-TET	First quarter 2021	Fourth quarter 2021	440	\$ 27.72
OPIS Propane Mont Belvieu Non-TET	First quarter 2022	First quarter 2022	115	\$ 24.78
OPIS Normal Butane Mont Belvieu Non-TET	First quarter 2021	Fourth quarter 2021	143	\$ 30.87

NGL Collars

Index	Start Date	Through Date	Volumes (MBbl)	Weighted-Average Floor Price (per Bbl)	Weighted-Average Ceiling Price (per Bbl)
OPIS Propane Mont Belvieu Non-TET	First quarter 2022	Fourth quarter 2022	234	\$ 22.05	\$ 27.30

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, 2020, and 2019, was a net liability of \$168.2 million and a net asset of \$21.5 million, respectively.

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

	<u>As of December 31, 2020</u>		<u>As of December 31, 2019</u>	
	(in thousands)			
Derivative assets:				
Current assets	\$	31,203	\$	55,184
Noncurrent assets		23,150		20,624
Total derivative assets	\$	<u>54,353</u>	\$	<u>75,808</u>
Derivative liabilities:				
Current liabilities	\$	200,189	\$	50,846
Noncurrent liabilities		22,331		3,444
Total derivative liabilities	\$	<u>222,520</u>	\$	<u>54,290</u>

Offsetting of Derivative Assets and Liabilities

As of December 31, 2020, and 2019, 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:

	<u>Derivative Assets</u>		<u>Derivative Liabilities</u>	
	<u>As of December 31,</u>		<u>As of December 31,</u>	
	<u>2020</u>	<u>2019</u>	<u>2020</u>	<u>2019</u>
	(in thousands)			
Gross amounts presented in the accompanying balance sheets	\$ 54,353	\$ 75,808	\$ (222,520)	\$ (54,290)
Amounts not offset in the accompanying balance sheets	(53,598)	(35,075)	53,598	35,075
Net amounts	<u>\$ 755</u>	<u>\$ 40,733</u>	<u>\$ (168,922)</u>	<u>\$ (19,215)</u>

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 income (loss). The Company had no commodity derivative contracts designated as hedging instruments for the years ended December 31, 2020, 2019, and 2018. Please refer to *Note 11 – 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, as well as the components of the net derivative (gain) loss line item presented in the accompanying statements of operations:

	For the Years Ended December 31,		
	2020	2019	2018
	(in thousands)		
Derivative settlement (gain) loss:			
Oil contracts	\$ (331,559)	\$ 19,685	\$ 68,860
Gas contracts	(11,898)	(23,008)	13,029
NGL contracts	(7,804)	(35,899)	53,914
Total derivative settlement (gain) loss:	\$ (351,261)	\$ (39,222)	\$ 135,803
Net derivative (gain) loss:			
Oil contracts	\$ (205,180)	\$ 172,055	\$ (192,002)
Gas contracts	30,038	(41,205)	35,411
NGL contracts	13,566	(33,311)	(5,241)
Total net derivative (gain) loss:	\$ (161,576)	\$ 97,539	\$ (161,832)

Credit Related Contingent Features

As of December 31, 2020, 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 – 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, 2020:

	Level 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.

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, 2019:

	Level 1	Level 2		Level 3		
	(in thousands)					
Assets:						
Derivatives ⁽¹⁾	\$	—	\$	75,808	\$	—
Liabilities:						
Derivatives ⁽¹⁾	\$	—	\$	54,290	\$	—

⁽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 derivatives. 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.

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, 2020, or December 31, 2019.

For the year ended December 31, 2020, the Company recorded impairment expense of \$956.7 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, 2019, or 2018.

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,		
	2020	2019	2018
	(in millions)		
Impairment of proved oil and gas properties and related support equipment	\$ 956.7	\$ —	\$ —
Abandonment and impairment of unproved properties ⁽¹⁾	59.3	33.8	49.9
Impairment	<u>\$ 1,016.0</u>	<u>\$ 33.8</u>	<u>\$ 49.9</u>

⁽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, 2020, 2019, and 2018, are recorded at carrying value.

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 note 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, 2020, or 2019, 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 December 31,			
	2020		2019	
	Principal Amount	Fair Value	Principal Amount	Fair Value
	(in thousands)			
1.50% Senior Secured Convertible Notes due 2021 ⁽¹⁾	\$ 65,485	\$ 61,449	\$ —	\$ —
10.0% Senior Secured Notes due 2025	\$ 446,675	\$ 482,887	\$ —	\$ —
6.125% Senior Unsecured Notes due 2022	\$ 212,403	\$ 205,379	\$ 476,796	\$ 481,564
5.0% Senior Unsecured Notes due 2024	\$ 277,034	\$ 240,072	\$ 500,000	\$ 479,815
5.625% Senior Unsecured Notes due 2025	\$ 349,118	\$ 289,401	\$ 500,000	\$ 475,835
6.75% Senior Unsecured Notes due 2026	\$ 419,235	\$ 342,385	\$ 500,000	\$ 494,860
6.625% Senior Unsecured Notes due 2027	\$ 416,791	\$ 331,220	\$ 500,000	\$ 493,750
1.50% Senior Convertible Notes due 2021 ⁽¹⁾	\$ —	\$ —	\$ 172,500	\$ 164,430

⁽¹⁾ The Company's 2021 Senior Convertible Notes became secured in the second quarter of 2020 upon the closing of the Exchange Offers. Please refer to *Note 5 – Long-Term Debt* for additional information.

The carrying value of the Company's revolving credit facility approximates its fair value, as the applicable interest rates are floating, based on prevailing market rates.

Warrants

As discussed in *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 warrants are exercisable any time from and after the Triggering Date, as subsequently defined, until June 30, 2023. The Triggering Date 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 issued are indexed to the Company's common stock and are required to be settled through physical settlement or net share settlement if exercised. The warrants were not exercisable during the year ended December 31, 2020. The Triggering Date occurred on January 14, 2021, and the warrants became exercisable at the election of the holders. The warrants may be exercised either in full or from time to time in part, until their expiration on June 30, 2023.

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 12 - Leases

Topic 842 requires lessees to recognize operating and finance leases with terms greater than 12 months on the balance sheet. As of December 31, 2020, and 2019, the Company did not have any agreements in place that were classified as finance leases under Topic 842. Arrangements classified as operating leases are included on the accompanying balance sheets within the other noncurrent assets, other current liabilities, and other noncurrent liabilities line items. For any agreement that contains both lease and non-lease components, such as a service arrangement that also includes an identifiable ROU asset, 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. Aside from the recognition of ROU assets and corresponding lease liabilities on the accompanying balance sheets, Topic 842 does not have a material impact on the timing or classification of costs incurred for those agreements considered to be leases.

As outlined in Topic 842, 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.

The Company evaluates a contractual arrangement at its inception to determine if it is a lease or contains an identifiable lease component as defined by Topic 842. When evaluating a contract to determine appropriate classification and recognition under Topic 842, significant judgment may be necessary to determine, among other criteria, if an embedded leasing arrangement exists, the length of the term, classification as either an operating or financing lease, which options are reasonably likely to be exercised, fair value of the underlying ROU asset or assets, upfront costs, and future lease payments that are included or excluded in the initial measurement of the ROU asset. Certain assumptions and judgments made by the Company when evaluating a contract that meets the definition of a lease under Topic 842 include:

- **Discount Rate** - 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 weighted-average discount rate used to determine the operating lease liability at December 31, 2020, and 2019, was 7.0 percent and 6.6 percent, respectively.
- **Lease Term** - The Company evaluates each contract containing a lease arrangement at inception to determine the length of the lease term when recognizing a 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. Because of the Company's intent to maintain financial and operational flexibility, there are no available options to extend that the Company is reasonably certain it will exercise. Additionally, based on expectations for those agreements with early termination options, there are no leases in which material early termination options are reasonably certain to be exercised by the Company. Exercising an early termination option may result in an early termination penalty depending on the terms of the underlying agreement.

Currently, the Company has operating leases for asset classes that include office space, office equipment, drilling rigs, midstream agreements, vehicles, and equipment rentals used in field operations. For those operating leases included on the accompanying balance sheets, which only includes leases with terms greater than 12 months at commencement, remaining lease terms range from less than one year to approximately five years. The weighted-average lease term remaining for these leases is approximately three years as of each of the years ended December 31, 2020, and 2019. Certain leases also contain optional extension periods that allow for terms to be extended for up to an additional 10 years. An early termination option also exists for certain leases, some of which allow for the Company to terminate a lease within one year.

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. For example, costs associated with drilling rigs and completion crews that are considered ROU assets are typically capitalized as part of the development of the Company's oil and gas properties. Please refer to *Note 1 – Summary of Significant Accounting Policies* for additional information on its accounting policies for oil and gas development and producing activities. 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.

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, 2020, and 2019. 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,	
	2020	2019
	(in thousands)	
Operating lease cost	\$ 17,980	\$ 35,570
Short-term lease cost ⁽¹⁾	143,892	301,373
Variable lease cost ⁽²⁾	70,858	106,006
Total lease cost	<u>\$ 232,730</u>	<u>\$ 442,949</u>

⁽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.

⁽²⁾ 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.

ROU assets obtained in exchange for new operating lease liabilities totaled \$745,000 and \$25.4 million for the twelve months ended December 31, 2020, and 2019, respectively.

Cash paid for amounts included in the measurement of lease liabilities for the years ended December 31, 2020, and 2019, were as follows:

	For the Years Ended December 31,	
	2020	2019
	(in thousands)	
Operating cash flows from operating leases	\$ 12,046	\$ 12,074
Investing cash flows from operating leases	\$ 7,313	\$ 24,129

Maturities for the Company's operating lease liabilities included on the accompanying balance sheets as of December 31, 2020, were as follows:

As of December 31, 2020	
(in thousands)	
2021	\$ 12,781
2022	5,891
2023	3,591
2024	2,081
2025	1,222
Thereafter	417
Total Lease payments	<u>\$ 25,983</u>
Less: Imputed interest ⁽¹⁾	<u>(2,426)</u>
Total	<u>\$ 23,557</u>

⁽¹⁾ The weighted-average discount rate used to determine the operating lease liability as of December 31, 2020, was 7.0 percent.

Amounts recorded on the accompanying balance sheets for operating leases as of December 31, 2020, and 2019, were as follows:

	As of December 31,	
	2020	2019
	(in thousands)	
Other noncurrent assets	\$ 21,701	\$ 39,717
Other current liabilities	\$ 11,659	\$ 19,189
Other noncurrent liabilities	\$ 11,898	\$ 23,137

As of December 31, 2020, and through the filing of this report, the Company has no material lease arrangements which are scheduled to commence in the future.

Note 13 – Accounts Receivable and Accounts Payable and Accrued Expenses

Accounts receivable are comprised of the following accruals:

	As of December 31,	
	2020	2019
	(in thousands)	
Oil, gas, and NGL production revenue	\$ 108,928	\$ 146,308
Amounts due from joint interest owners	31,514	22,681
State severance tax refunds	2,301	4,069
Derivative settlements	16,348	6,868
Other	3,364	4,806
Total accounts receivable	\$ 162,455	\$ 184,732

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

	As of December 31,	
	2020	2019
	(in thousands)	
Drilling and lease operating cost accruals	\$ 65,365	\$ 96,925
Trade accounts payable	63,006	52,094
Revenue and severance tax payable	105,233	109,847
Property taxes	20,584	24,535
Compensation	30,907	41,540
Derivative settlements	1,146	5,851
Interest	52,802	44,175
Other	32,627	27,041
Total accounts payable and accrued expenses	\$ 371,670	\$ 402,008

Note 14 – Asset Retirement Obligations

Please refer to *Asset Retirement Obligations* in *Note 1 – Summary of Significant Accounting Policies* for 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, 2020, and 2019:

	As of December 31,	
	2020	2019
	(in thousands)	
Beginning asset retirement obligations	\$ 86,846	\$ 94,194
Liabilities incurred ⁽¹⁾	1,018	3,927
Liabilities settled ⁽²⁾	(1,404)	(4,105)
Accretion expense	4,034	4,016
Revision to estimated cash flows	(5,169)	(11,186)
Ending asset retirement obligations ⁽³⁾	<u>\$ 85,325</u>	<u>\$ 86,846</u>

⁽¹⁾ Reflects liabilities incurred through drilling activities and acquisitions of drilled wells.

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

⁽³⁾ Balances as of December 31, 2020, and 2019, included \$2.0 million and \$2.7 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.

Note 15 – Suspended Well Costs

The following table reflects the net changes in capitalized exploratory well costs during 2020, 2019, and 2018. 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,		
	2020	2019	2018
	(in thousands)		
Beginning balance	\$ 11,925	\$ 11,197	\$ 49,446
Additions to capitalized exploratory well costs pending the determination of proved reserves	3,346	11,925	11,197
Divestitures	—	—	(109)
Reclassifications based on the determination of proved reserves	(9,573)	(11,197)	(49,337)
Capitalized exploratory well costs charged to expense	—	—	—
Ending balance	<u>\$ 5,698</u>	<u>\$ 11,925</u>	<u>\$ 11,197</u>

As of December 31, 2020, there were no material exploratory well costs that were capitalized for more than one year.

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,		
	2020	2019	2018
	(in thousands)		
Development costs ⁽¹⁾	\$ 490,935	\$ 913,959	\$ 1,147,574
Exploration costs	77,911	114,957	184,930
Acquisitions			
Proved properties	5,579	(310)	1,312
Unproved properties ⁽²⁾	10,854	11,633	55,688
Total, including asset retirement obligations ⁽³⁾⁽⁴⁾	\$ 585,279	\$ 1,040,239	\$ 1,389,504

⁽¹⁾ Includes facility costs of \$27.2 million, \$28.3 million, and \$72.6 million for the years ended December 31, 2020, 2019, and 2018, respectively.

⁽²⁾ Includes amounts related to leasing activity and acquiring surface rights outside of acquisitions of proved and unproved properties totaling \$8.6 million, \$8.7 million, and \$23.4 million for the years ended December 31, 2020, 2019, and 2018, respectively.

⁽³⁾ Includes amounts relating to estimated asset retirement obligations of \$(4.7) million, \$(9.9) million, and \$7.1 million for the years ended December 31, 2020, 2019, and 2018, respectively.

⁽⁴⁾ Includes capitalized interest of \$15.8 million, \$18.5 million, and \$20.6 million for the years ended December 31, 2020, 2019, and 2018, 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, 2020. 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.

For the Years Ended December 31,

	2020 ⁽¹⁾			2019 ⁽²⁾			2018 ⁽³⁾		
	Oil (MMBbl)	Gas (Bcf)	NGLs (MMBbl)	Oil (MMBbl)	Gas (Bcf)	NGLs (MMBbl)	Oil (MMBbl)	Gas (Bcf)	NGLs (MMBbl)
Total proved reserves:									
Beginning of year	184.1	1,223.2	74.0	175.7	1,321.8	107.4	158.2	1,280.1	96.5
Revisions of previous estimate	(28.2)	(246.6)	(24.7)	(19.2)	(212.5)	(40.0)	(24.0)	(219.5)	(8.0)
Discoveries and extensions	19.6	96.5	11.5	5.4	28.8	2.9	9.3	20.3	0.5
Infill reserves in an existing proved field	20.5	91.1	3.0	41.8	190.2	11.8	80.4	391.5	29.0
Sales of reserves ⁽⁴⁾	(0.5)	(8.9)	(1.1)	(0.2)	(0.7)	—	(29.6)	(48.1)	(2.7)
Purchases of minerals in place ⁽⁴⁾	0.2	0.6	—	2.5	5.4	—	0.2	0.7	—
Production	(23.0)	(103.9)	(6.1)	(21.9)	(109.8)	(8.1)	(18.8)	(103.2)	(7.9)
End of year	<u>172.7</u>	<u>1,052.0</u>	<u>56.6</u>	<u>184.1</u>	<u>1,223.2</u>	<u>74.0</u>	<u>175.7</u>	<u>1,321.8</u>	<u>107.4</u>
Proved developed reserves:									
Beginning of year	85.0	712.1	43.4	68.2	699.1	60.1	58.6	642.9	49.0
End of year	89.8	643.9	32.1	85.0	712.1	43.4	68.2	699.1	60.1
Proved undeveloped reserves:									
Beginning of year	99.1	511.1	30.6	107.6	622.7	47.2	99.6	637.2	47.6
End of year	82.9	408.1	24.4	99.1	511.1	30.6	107.6	622.7	47.2

Note: Amounts may not calculate due to rounding.

- (1) 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 proved undeveloped reserves and declining commodity prices during 2020. 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, 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.
- (3) For the year ended December 31, 2018, the Company added 188.0 MMBOE from its drilling program and through development plan optimization. The Company divested 40.3 MMBOE during 2018, primarily as a result of the PRB Divestiture, Divide County Divestiture, and Half East Divestiture. The Company also had net downward revisions of 68.8 MMBOE, which resulted primarily from changes in development plans in its Eagle Ford shale program.
- (4) Please refer to *Note 3 – Acquisitions, Divestitures, and Assets Held for Sale* for additional information.

Standardized Measure of Discounted Future Net Cash Flows

The Company computes a standardized measure of future net cash flows (“Standardized Measure”) 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 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 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:

	For the Years Ended December 31,		
	2020	2019	2018
Oil (per Bbl)	\$ 37.63	\$ 53.68	\$ 57.76
Gas (per Mcf)	\$ 1.81	\$ 2.49	\$ 3.49
NGLs (per Bbl)	\$ 14.64	\$ 18.88	\$ 26.23

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.

	As of December 31,		
	2020	2019	2018
	(in thousands)		
Future cash inflows	\$ 9,227,390	\$ 14,327,131	\$ 17,579,432
Future production costs	(3,429,288)	(4,579,119)	(5,386,264)
Future development costs	(1,259,395)	(2,108,859)	(2,679,488)
Future income taxes	—	(579,815)	(1,012,209)
Future net cash flows	4,538,707	7,059,338	8,501,471
10 percent annual discount	(1,856,250)	(2,955,340)	(3,847,088)
Standardized measure of discounted future net cash flows	\$ 2,682,457	\$ 4,103,998	\$ 4,654,383

The principle sources of changes in the Standardized Measure were:

	For the Years Ended December 31,		
	2020	2019	2018
	(in thousands)		
Standardized Measure, beginning of year	\$ 4,103,998	\$ 4,654,383	\$ 3,024,142
Sales of oil, gas, and NGLs produced, net of production costs	(734,971)	(1,085,041)	(1,148,991)
Net changes in prices and production costs	(2,251,636)	(1,539,042)	1,010,335
Extensions, discoveries and other including infill reserves in an existing proved field, net of related costs	482,717	887,254	2,218,475
Sales of reserves in place	(10,755)	(2,788)	(147,887)
Purchase of reserves in place	2,120	57,519	1,818
Previously estimated development costs incurred during the period	431,926	736,770	445,638
Changes in estimated future development costs	215,460	132,825	(34,871)
Revisions of previous quantity estimates	(172,197)	(398,409)	(611,168)
Accretion of discount	436,284	510,427	305,657
Net change in income taxes	258,844	191,040	(449,884)
Changes in timing and other	(79,333)	(40,940)	41,119
Standardized Measure, end of year	\$ 2,682,457	\$ 4,103,998	\$ 4,654,383

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 and our Chief Financial Officer, as appropriate, to allow for timely decisions regarding required disclosure.

Our management, including our Chief Executive Officer (Principal Executive Officer) and Chief Financial Officer (Principal 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 2020 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, 2020. 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, 2020.

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, 2020, 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, 2020, 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, 2020, and 2019, the related consolidated statements of operations, comprehensive income (loss), stockholders' equity, and cash flows for each of the three years in the period ended December 31, 2020, and the related notes and our report dated February 18, 2021, 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 18, 2021

ITEM 9B. OTHER INFORMATION

None.

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 2021 annual meeting of stockholders, to be filed within 120 days from December 31, 2020.

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 2021 annual meeting of stockholders, to be filed within 120 days from December 31, 2020.

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 2021 annual meeting of stockholders, to be filed within 120 days from December 31, 2020.

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 2021 annual meeting of stockholders, to be filed within 120 days from December 31, 2020.

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, 2020:

Plan category	(a) Number of securities to be issued upon exercise of outstanding options, warrants, and rights	(b) Weighted-average exercise price of outstanding options, warrants, and rights	(c) 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⁾	2,106,654	N/A	
Performance share units ⁽²⁾⁽³⁾	867,088	N/A	
Total for Equity Incentive Compensation Plan	2,973,742	\$ —	3,760,838
Employee Stock Purchase Plan ⁽⁴⁾	—	—	834,246
Equity compensation plans not approved by security holders	—	—	—
Total for all plans	2,973,742	\$ —	4,595,084

⁽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 2020, 2019, and 2018 under the Equity Plan were 1,726,445, 1,868,776, and 1,220,217, respectively.

⁽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 \$8.88 and \$17.51, respectively. Please refer to *Note 7 – Compensation Plans* in Part II, Item 8 of this report for additional discussion.

⁽³⁾ The number of awards to be issued assumes a multiplier of one. The final number of shares of the Company’s common stock issued upon settlement may vary depending on the three-year multiplier determined at the end of the performance period under the Equity Plan, which ranges from zero to two.

⁽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 fair market value of the common stock on the first or last day of the six-month offering period, and shares issued under the ESPP on or after December 31, 2011, have no minimum restriction 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 2020, 2019, and 2018 under the ESPP were 464,757, 314,868, and 199,464, respectively.

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 2021 annual meeting of stockholders, to be filed within 120 days from December 31, 2020.

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 2021 annual meeting of stockholders, to be filed within 120 days from December 31, 2020.

PART IV

ITEM 15. EXHIBITS AND CONSOLIDATED FINANCIAL STATEMENT SCHEDULES

(a)(1) and (a)(2) Consolidated Financial Statements and Financial Statement Schedules:

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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 Number	Description
2.1	Purchase and Sale Agreement dated January 8, 2018 by and between SM Energy Company and Converse Energy Acquisitions, LLC (filed as Exhibit 2.1 to the registrant's Current Report on Form 8-K filed on January 11, 2018 and incorporated herein by reference)
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)
3.2	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)
4.4	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)
4.5	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)
4.9	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 4.3 to the registrant's Current Report on Form 8-K filed on August 20, 2018, and incorporated herein by reference)

- [4.10](#) [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 \(filed as Exhibit 4.1 to the registrant's Current Report on Form 8-K filed on April 29, 2020, and incorporated herein by reference\)](#)
- [4.11](#) [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 \(filed as Exhibit 4.1 to the registrant's Current Report on Form 8-K filed on June 17, 2020, and incorporated herein by reference\)](#)
- [4.12](#) [Warrant Agreement dated as of June 17, 2020, among SM Energy Company, Computershare Inc. and Computershare Trust Company, N.A., collectively as warrant agent \(filed as Exhibit 4.2 to the registrant's Current Report on Form 8-K filed on June 17, 2020, and incorporated herein by reference\)](#)
- [4.13†](#) [SM Energy Company Equity Incentive Compensation Plan, amended and restated effective as of May 22, 2018 \(filed as Annex A in the registrant's Definitive Proxy Statement on Schedule 14A, filed on April 12, 2018, and incorporated herein by reference\)](#)
- [4.14*](#) [Description of Securities](#)
- [10.1](#) [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 \(filed as Exhibit 10.3 to the registrant's Current Report on Form 8-K filed on April 20, 2009, and incorporated herein by reference\)](#)
- [10.2](#) [Deed of Trust to Wachovia Bank, National Association, as Administrative Agent, dated effective as of April 14, 2009 \(filed as Exhibit 10.2 to the registrant's Current Report on Form 8-K filed on April 20, 2009, and incorporated herein by reference\)](#)
- [10.3†](#) [Form of Non-Employee Director Restricted Stock Award Agreement as of May 27, 2010 \(filed as Exhibit 10.5 to the registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2010, and incorporated herein by reference\)](#)
- [10.4***](#) [Gas Services Agreement effective as of July 1, 2010 between SM Energy Company and Eagle Ford Gathering LLC \(filed as Exhibit 10.3 to the registrant's Quarterly Report on Form 10-Q for the quarter ended September 30, 2010, and incorporated herein by reference\)](#)
- [10.5††](#) [Net Profits Interest Bonus Plan, As Amended by the Board of Directors on July 30, 2010 \(filed as Exhibit 10.6 to the registrant's Quarterly Report on Form 10-Q for the quarter ended September 30, 2010 and incorporated herein by reference\)](#)
- [10.6†](#) [Pension Plan for Employees of SM Energy Company as Amended and Restated as of January 1, 2010 \(filed as Exhibit 10.30 to the registrant's Annual Report on Form 10-K filed for the year ended December 31, 2010, and incorporated herein by reference\)](#)
- [10.7+](#) [SM Energy Company Non-Qualified Unfunded Supplemental Retirement Plan as Amended as of December 31, 2010 \(filed as Exhibit 10.31 to the registrant's Annual Report on Form 10-K filed for the year ended December 31, 2010, and incorporated herein by reference\)](#)
- [10.8***](#) [Gas Gathering Agreement dated May 31, 2011 between Regency Field Services LLC and SM Energy Company \(filed as Exhibit 10.2 to the registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2011, and incorporated herein by reference\)](#)
- [10.9***](#) [Gathering and Natural Gas Services Agreement effective as of April 1, 2011 between SM Energy Company and ETC Texas Pipeline, Ltd. \(filed as Exhibit 10.3 to the registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2011, and incorporated herein by reference\)](#)
- [10.10***](#) [Gas Processing Agreement effective as of April 1, 2011 between ETC Texas Pipeline, Ltd. and SM Energy Company \(filed as Exhibit 10.4 to the registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2011, and incorporated herein by reference\)](#)
- [10.11†](#) [Employee Stock Purchase Plan, As Amended and Restated as of June 10, 2011 \(filed as Exhibit 10.5 to the registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2011, and incorporated herein by reference\)](#)
- [10.12†](#) [Amendment No. 1 to the Pension Plan for Employees of SM Energy Company amended as of January 1, 2011 \(filed as Exhibit 10.41 to the registrant's Annual Report on Form 10-K filed for the year ended December 31, 2011, and incorporated herein by reference\)](#)
- [10.13†](#) [Amendment No. 2 to the Pension Plan for Employees of SM Energy Company amended as of January 1, 2012 \(filed as Exhibit 10.42 to the registrant's Annual Report on Form 10-K filed for the year ended December 31, 2011, and incorporated herein by reference\)](#)
- [10.14†](#) [SM Energy Company Non-Qualified Deferred Compensation Plan as of March 10, 2014 \(filed as Exhibit 10.1 to the registrant's Current Report on Form 8-K filed on January 24, 2014, and incorporated herein by reference\)](#)
- [10.15†](#) [Cash Bonus Plan, As Amended and Restated as of February 1, 2014 \(filed as Exhibit 10.41 to the registrant's Annual Report on Form 10-K filed for the year ended December 31, 2013, and incorporated herein by reference\)](#)
- [10.16†](#) [Section 162\(m\) Cash Bonus Plan, effective as of May 21, 2014 \(filed as Exhibit 10.1 to the registrant's Current Report on Form 8-K filed on May 28, 2014, and incorporated herein by reference\)](#)
- [10.17*†](#) [Summary of Compensation Arrangements for Non-Employee Directors](#)

- [10.18](#) [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 \(filed as Exhibit 10.1 to the registrant's Current Report on Form 8-K filed on October 4, 2018, and incorporated herein by reference\)](#)
- [10.19†](#) [Change of Control Executive Severance Agreement \(filed as Exhibit 10.1 to the registrant's Current Report on Form 8-K filed on October 20, 2015, and incorporated herein by reference\)](#)
- [10.20†](#) [Amendment No. 3 to the Pension Plan for Employees of SM Energy Company amended as of January 1, 2016 \(filed as Exhibit 10.29 to the registrant's Annual Report on Form 10-K filed for the year ended December 31, 2015, and incorporated herein by reference\)](#)
- [10.21***](#) [Amendment to Amended and Restated Gas Gathering Agreement, effective as of September 1, 2015, by and between SM Energy Company and Regency Field Services LLC \(filed as Exhibit 10.1 to the registrant's Current Report on Form 8-K filed on September 15, 2015, and incorporated herein by reference\)](#)
- [10.22](#) [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 \(filed as Exhibit 10.1 to the registrant's Current Report on Form 8-K filed on February 22, 2016, and incorporated herein by reference\)](#)
- [10.23](#) [Call Option Confirmation, dated August 8, 2016, by and between SM Energy Company and Wells Fargo Bank, National Association \(filed as Exhibit 10.1 to the registrant's Current Report on Form 8-K filed on August 12, 2016, and incorporated herein by reference\)](#)
- [10.24](#) [Call Option Confirmation, dated August 8, 2016, by and between SM Energy Company and Bank of America, N.A. \(filed as Exhibit 10.2 to the registrant's Current Report on Form 8-K filed on August 12, 2016, and incorporated herein by reference\)](#)
- [10.25](#) [Call Option Confirmation, dated August 8, 2016, by and between SM Energy Company and JPMorgan Chase Bank, National Association \(filed as Exhibit 10.3 to the registrant's Current Report on Form 8-K filed on August 12, 2016, and incorporated herein by reference\)](#)
- [10.26](#) [Call Option Confirmation, dated August 10, 2016, by and between SM Energy Company and Wells Fargo Bank, National Association \(filed as Exhibit 10.4 to the registrant's Current Report on Form 8-K filed on August 12, 2016, and incorporated herein by reference\)](#)
- [10.27](#) [Call Option Confirmation, dated August 10, 2016, by and between SM Energy Company and Bank of America, N.A. \(filed as Exhibit 10.5 to the registrant's Current Report on Form 8-K filed on August 12, 2016, and incorporated herein by reference\)](#)
- [10.28](#) [Call Option Confirmation, dated August 10, 2016, by and between SM Energy Company and JPMorgan Chase Bank, National Association \(filed as Exhibit 10.6 to the registrant's Current Report on Form 8-K filed on August 12, 2016, and incorporated herein by reference\)](#)
- [10.29†](#) [SM Energy Company Employee Stock Purchase Plan, amended and restated effective as of April 6, 2017 \(filed as Annex A in the registrant's Definitive Proxy Statement on Schedule 14A, filed on April 13, 2017, and incorporated herein by reference\)](#)
- [10.30†](#) [Performance Share Unit Award Agreement as of July 1, 2018 \(filed as Exhibit 10.1 to the registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2018, and incorporated herein by reference\)](#)
- [10.31](#) [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 \(filed as Exhibit 10.1 to the registrant's Current Report on Form 8-K filed on April 18, 2019, and incorporated herein by reference\)](#)
- [10.32†](#) [Performance Share Unit Award Agreement as of July 1, 2019 \(filed as Exhibit 10.2 to the registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2019, and incorporated herein by reference\)](#)
- [10.33](#) [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 \(filed as Exhibit 10.1 to the registrant's Current Report on Form 8-K filed on September 24, 2019, and incorporated herein by reference\)](#)
- [10.34](#) [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 \(filed as Exhibit 10.1 to the registrant's Quarterly Report on Form 10-Q for the quarter ended March 31, 2020, and incorporated herein by reference\)](#)
- [10.35](#) [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 \(filed as Exhibit 10.1 to the registrant's Current Report on Form 8-K filed on May 6, 2020, and incorporated herein by reference\)](#)
- [10.36](#) [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 \(filed as Exhibit 10.1 to the registrant's Current Report on Form 8-K filed on June 17, 2020, and incorporated herein by reference\)](#)
- [10.37](#) [Second Lien Pledge and Security Agreement dated as of June 17, 2020 between SM Energy Company and UMB Bank, N.A., as collateral trustee \(filed as Exhibit 10.2 to the registrant's Current Report on Form 8-K filed on June 17, 2020, and incorporated herein by reference\)](#)
- [10.38](#) [Second Lien Security Agreement dated as of June 17, 2020 between SM Energy Company and UMB Bank, N.A., as collateral trustee \(filed as Exhibit 10.3 to the registrant's Current Report on Form 8-K filed on June 17, 2020, and incorporated herein by reference\)](#)

10.39	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)
10.40	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)
10.41†	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)
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
101.INS	Inline XBRL Instance Document - The instance document does not appear in the Interactive Data File because its XBRL 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.

** 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.

† 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.

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 18, 2021

By: /s/ HERBERT S. VOGEL
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, 2020, 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.

<u>Signature</u>	<u>Title</u>	<u>Date</u>
<u>/s/ HERBERT S. VOGEL</u> Herbert S. Vogel	President, Chief Executive Officer, and Director (Principal Executive Officer)	February 18, 2021
<u>/s/ A. WADE PURSELL</u> A. Wade Pursell	Executive Vice President and Chief Financial Officer (Principal Financial Officer)	February 18, 2021
<u>/s/ PATRICK A. LYTLE</u> Patrick A. Lytle	Controller and Assistant Secretary (Principal Accounting Officer)	February 18, 2021

<u>Signature</u>	<u>Title</u>	<u>Date</u>
<u>/s/ WILLIAM D. SULLIVAN</u> William D. Sullivan	Chairman of the Board of Directors	February 18, 2021
<u>/s/ CARLA J. BAILO</u> Carla J. Bailo	Director	February 18, 2021
<u>/s/ LARRY W. BICKLE</u> Larry W. Bickle	Director	February 18, 2021
<u>/s/ STEPHEN R. BRAND</u> Stephen R. Brand	Director	February 18, 2021
<u>/s/ LOREN M. LEIKER</u> Loren M. Leiker	Director	February 18, 2021
<u>/s/ JAVAN D. OTTOSON</u> Javan D. Ottoson	Director	February 18, 2021
<u>/s/ RAMIRO G. PERU</u> Ramiro G. Peru	Director	February 18, 2021
<u>/s/ JULIO M. QUINTANA</u> Julio M. Quintana	Director	February 18, 2021
<u>/s/ ROSE M. ROBESON</u> Rose M. Robeson	Director	February 18, 2021

DESCRIPTION OF SECURITIES

As of December 31, 2020, 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 2020 - 2021 term, target compensation for each member of the Board of Directors was set at \$210,000 annually, and was split between (i) an equity grant comprised of the Company's common stock valued at \$100,000 at the time of election; and (ii) a cash retainer of \$110,000, 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 27,028 shares to each non-employee director, which shares were restricted upon issuance until they vested on December 31, 2020.

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. These amounts were paid at the beginning of the annual service period.

- Non-executive Chairman - \$80,000 (equity compensation paid in the form of 21,622 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 (paid in cash)
- Compensation Committee - \$15,000 (paid in cash)
- Environmental, Social and Governance Committee - \$10,000 (paid in cash)

For her 2020 - 2021 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 29,730 shares of SM Energy common stock. These shares vested on December 31, 2020. Larry Bickle, Stephen Brand, Loren Leiker, Ramiro Peru, Julio Quintana, Rose Robeson and William Sullivan each elected to receive a \$110,000 cash payment for their retainer. Javan Ottoson, who retired as Chief Executive Officer of the Company effective November 3, 2020, and continued as a member of the Board but in the capacity of a non-employee director, received a retainer paid in cash in the amount of \$105,000, prorated for the period of time during which he would serve as a non-employee director.

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
2. Belring GP LLC, a Delaware limited liability company
3. St. Mary Energy Louisiana LLC, a Delaware limited liability company
4. Hilltop Investments, a Colorado general partnership
5. Parish Ventures, a Colorado general partnership
6. 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:

- (1) 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, and 333-226660) of SM Energy Company,
- (2) Post-Effective Amendment No. 1 to Registration Statement (Form S-8 Nos. 333-106438) of SM Energy Company,
- (3) Registration Statement (Form S-3 No. 333-226597) of SM Energy Company;

of our reports dated February 18, 2021, 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, 2020.

/s/ Ernst & Young LLP

Denver, Colorado
February 18, 2021



RYDER SCOTT COMPANY
PETROLEUM CONSULTANTS

TBPE REGISTERED ENGINEERING FIRM F-1580
1100 LOUISIANA STREET SUITE 4600 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, 2020. We hereby further consent to the use of information contained in our reports, and the use of our audit letter, as of December 31, 2020, 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 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, and 333-226660 on Form S-8, and Registration Statement No. 333-226597 on Form S-3.

/s/ RYDER SCOTT COMPANY, L.P.
RYDER SCOTT COMPANY, L.P.
TBPE Firm Registration No. F-1580

Houston, Texas
February 18, 2021

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 18, 2021

/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;
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 18, 2021

/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, 2020, 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 18, 2021

/s/ A. WADE PURSELL

A. Wade Pursell
Executive Vice President and Chief Financial Officer
February 18, 2021

SM ENERGY COMPANY

**Estimated
Future Reserves
Attributable to Certain
Leasehold Interests**

SEC Parameters

**As of
December 31, 2020**

/s/ Val Rick Robinson

Val Rick Robinson, P.E.
TBPE License No. 105137
Managing Senior Vice President

/s/ Gabrielle Morrow

Gabrielle Morrow, P.E.
TBPE License No. 109935
Senior Vice President



RYDER SCOTT COMPANY, L.P.
TBPE Firm Registration No. F-1580





RYDER SCOTT COMPANY
PETROLEUM CONSULTANTS

TBPE REGISTERED ENGINEERING FIRM F-1580
1100 LOUISIANA SUITE 3800

HOUSTON, TEXAS 77002-5235

FAX (713) 651-0849
TELEPHONE (713) 651-9191

January 1, 2020

Mr. Levi J. Briese, P.E.
TBPE 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, 2020 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 21, 2020 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, 2020. The properties reviewed by Ryder Scott incorporate 1,178 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, 2020. Based on the estimates of total net proved reserves prepared by SM Energy, the reserves audit conducted by Ryder Scott addresses 97 percent of the total proved developed net liquid hydrocarbon reserves, 98 percent of the total proved developed net gas reserves, 93 percent of the total proved undeveloped net liquid hydrocarbon reserves, and 96 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, 2020. Based on the reserves and income projections prepared by SM Energy, the audit conducted by Ryder Scott addresses 97 percent of the discounted future net income at 10% of the total proved developed reserves and 92 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, 2020 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, 2020, 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, 2020

	Proved			Total Proved
	Developed		Undeveloped	
	Producing	Non-Producing		
<i>Net Reserves of Properties Audited by Ryder Scott</i>				
Oil/Condensate - MBBL	83,441	3,006	74,906	161,353
Plant Products - MBBL	31,875	—	24,415	56,290
Gas – MMCF	625,278	7,579	391,376	1,024,233
<i>Net Reserves of Properties Not Audited by Ryder Scott</i>				
Oil/Condensate - MBBL	1,661	1,716	7,947	11,324
Plant Products - MBBL	52	223	—	275
Gas – MMCF	4,824	6,201	16,761	27,786
<i>Total Net Reserves</i>				
Oil/Condensate - MBBL	85,102	4,722	82,853	172,677
Plant Products - MBBL	31,927	223	24,415	56,565
Gas – MMCF	630,102	13,780	408,137	1,052,019

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.

Reserves Included in This Report

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 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 but which, together with proved reserves, are as likely as not to be recovered." The SEC states that "possible 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				
United States	Oil/Condensate	WTI, Cushing	\$39.57/BBL	\$37.63/BBL
	NGLs	Hart Energy Composite ⁽¹⁾	\$17.64/BBL	\$14.64/BBL
	Gas	Henry Hub	\$1.99/MMBTU	\$1.81/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, 2020. 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, 2020, 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, 2020 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 5 percent of the total proved net liquid hydrocarbon reserves and 3 percent of the total proved net gas reserves based on estimates prepared by SM Energy as of December 31, 2020. The other properties represent 5 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, 2020.

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, 2020 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.
TBPE Firm Registration No. F-1580



/s/ Val Rick Robinson

Val Rick Robinson
TBPE License No. 105137
Managing Senior Vice President

/s/ Gabrielle Morrow

Gabrielle Morrow, P.E.
TBPE License No. 109935
Senior Vice President



VRR-GM (LPC)/pl

Professional Qualifications of Primary Technical Person

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 2019 continuing education hours, Mr. Robinson attended 32 hours of formalized training including the 2019 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 16 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 February 19, 2007.

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.