



Dear Fellow Stockholders,

Reflecting on 2016, Marathon Oil continued to exercise flexibility and discipline during an extremely volatile year that saw WTI average below \$44 with lows of \$26 in the first quarter. Through this period we successfully strengthened our balance sheet, reduced capital spending, lowered production and G&A costs, enhanced productivity, and progressed non-core asset sales.

Not only did we accomplish our objective of living within our means inclusive of asset sales, we delivered E&P production above the midpoint of our guidance while spending significantly less than our original capital budget. We further simplified our portfolio through the successful execution of \$1.3 billion in non-core asset sales, and opportunistically acquired a high quality position in Oklahoma's STACK play.

Operationally, we grew production in the Oklahoma Resource Basins by 40 percent year-over-year, as we increased activity there. Our Oklahoma team focused on protecting our valuable acreage through leasehold drilling, delineation activity, and improving well performance through enhanced completion designs. In the Eagle Ford we continued driving efficiencies and achieved record low completed well costs while maintaining operations at scale. Additionally, our Bakken team brought some of the best middle Bakken and Three Forks wells to sales in the entire basin over the last three years, while also doing a remarkable job of maintaining base production levels with relatively few completions. Internationally, we brought online the Alba B3 Compression project in E.G. on time and on budget with first gas in the third quarter, extending plateau production and field life. Our unit costs for both North America and International were below the low end of their respective guidance ranges.

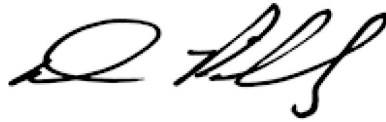
In 2017, we expect a return to sequential growth in the resource plays as we position the Company to achieve peer leading long-term production growth rates for both oil and BOE. Our view is that, while the near-term macro environment could remain volatile, improving global fundamentals will support higher prices over time. Our strategic intent remains squarely focused on our lower cost, higher margin U.S. resource plays, and in 2017 we expect more than 90 percent of our capital program to be allocated to these opportunities.

Our strong balance sheet has allowed us to participate in high quality resource capture opportunities, including last year's STACK acquisition and this year's entry into the Permian basin's Northern Delaware play, which will be our fourth major resource play. The Northern Delaware is one of the fastest growing, highest-return investment opportunities among all U.S. unconventional resource plays with unparalleled vertical resource density, and it will immediately compete for capital allocation at the top of Marathon Oil's organic portfolio. Concurrent with our Permian entry announcement in March, we also announced the divestiture of our Canadian oil sands mining business at an attractive value to further simplify and concentrate our portfolio. All of these actions serve to further align our portfolio to our strategic intent.

Over the last five years, we've made considerable progress on our path as an independent E&P with a substantial shift to the lower cost, higher margin opportunities in the U.S. resource plays. Our recently announced transactions, combined with what we achieved in 2016, represent additional significant steps in our journey. Yet through this transformative period, we remain steadfast in our commitment to be safe, responsible and ethical. Most importantly, we thank our dedicated and talented employees who work hard in every corner of this Company to execute on our strategy and deliver results. With a strong balance sheet, relentless focus on cost and efficiency, competitive portfolio, and ability to grow our business profitably, our future has never been brighter. 2017 is poised to be a remarkable year for Marathon Oil.



Lee Tillman
President and CEO



Dennis Reilley
Chairman of the Board of Directors

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, 2016

Commission file number 1-5153



Marathon Oil Corporation
(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of incorporation or organization)

25-0996816

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

5555 San Felipe Street, Houston, TX 77056-2723

(Address of principal executive offices)

(713) 629-6600

(Registrant's telephone number, including area code)

Securities registered pursuant to Section 12(b) of the Act:

Title of each class

Name of each exchange on which registered

Common Stock, par value \$1.00

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 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 and posted on its corporate web site, if any, every Interactive Data File required to be submitted and posted 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 and post such files). Yes No

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K.

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

Large accelerated filer Accelerated filer Non-accelerated filer Smaller reporting company

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 Common Stock held by non-affiliates as of June 30, 2016: \$12,696 million. This amount is based on the closing price of the registrant's Common Stock on the New York Stock Exchange on that date. Shares of Common Stock held by executive officers and directors of the registrant are not included in the computation. The registrant, solely for the purpose of this required presentation, has deemed its directors and executive officers to be affiliates.

There were 847,201,196 shares of Marathon Oil Corporation Common Stock outstanding as of February 15, 2017.

Documents Incorporated By Reference:

Portions of the registrant's proxy statement relating to its 2017 Annual Meeting of Stockholders, to be filed with the Securities and Exchange Commission pursuant to Regulation 14A under the Securities Exchange Act of 1934, are incorporated by reference to the extent set forth in Part III, Items 10-14 of this report.

MARATHON OIL CORPORATION

Unless the context otherwise indicates, references to "Marathon Oil," "we," "our" or "us" in this Annual Report on Form 10-K are references to Marathon Oil Corporation, including its wholly owned and majority-owned subsidiaries, and its ownership interests in equity method investees (corporate entities, partnerships, limited liability companies and other ventures over which Marathon Oil exerts significant influence by virtue of its ownership interest).

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Definitions

Throughout this report, the following company or industry specific terms and abbreviations are used.

AMPCO – Atlantic Methanol Production Company LLC, a company located in Equatorial Guinea in which we own a 45% equity interest.

AOSP – Athabasca Oil Sands Project, an oil sands mining, transportation and upgrading joint venture located in Alberta, Canada, in which we hold a 20% non-operated working interest.

bbl – One stock tank barrel, which is 42 United States gallons liquid volume.

bcf – Billion cubic feet.

boe – Barrels of oil equivalent.

btu – British thermal unit, an energy equivalence measure.

Capital Program – Includes capital expenditures, cash investments in equity method investees and other investments, exploration costs that are expensed as incurred rather than capitalized, such as geological and geophysical costs and certain staff costs, and other miscellaneous investment expenditures.

DD&A – Depreciation, depletion and amortization.

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

Downstream business – The refining, marketing and transportation operations, spun-off on June 30, 2011 and treated as discontinued operations.

Dry well – A well found to be incapable of producing either oil or natural gas in sufficient quantities to justify completion.

E.G. – Equatorial Guinea.

EGHoldings – Equatorial Guinea LNG Holdings Limited, a liquefied natural gas production company located in E.G. in which we own a 60% equity interest.

EIA – United States Energy Information Agency.

EPA – United States Environmental Protection Agency.

E&P - Exploration and production.

Exploratory well – A well drilled to find oil or natural gas in an unproved area or find a new reservoir in a field previously found to be productive in another reservoir.

FASB – Financial Accounting Standards Board.

FPSO - Floating production, storage and offloading vessel.

Henry Hub price - a natural gas benchmark price quoted at settlement date average.

IRS – United States Internal Revenue Service.

LNG – Liquefied natural gas.

LPG – Liquefied petroleum gas.

Liquid hydrocarbons or liquids – Collectively, crude oil, synthetic crude oil, condensate and natural gas liquids.

LLS – Louisiana Light Sweet crude oil, an oil index benchmark price as per Bloomberg Finance LLP: LLS St. James.

Marathon Oil – Marathon Oil Corporation and its consolidated subsidiaries: the company as it exists following the June 30, 2011 spin-off of the downstream business.

mbbl/d – Thousand barrels per day.

mboed – Thousand barrels of oil equivalent per day.

mcf – Thousand cubic feet.

mmbbl – Million barrels.

mmboe – Million barrels of oil equivalent.

mmbtu – Million British thermal units.

mmcf/d – Million cubic feet per day.

mmta – Million metric tonnes per annum.

MPC – Marathon Petroleum Corporation – the separate independent company, which owns and operates the downstream business.

mt – metric tonnes

mtd – Thousand metric tonnes per day.

Net acres or Net wells – The sum of the fractional working interests owned by us in gross acres or gross wells.

NGL or NGLs – Natural gas liquid or natural gas liquids, which are naturally occurring substances found in natural gas, including ethane, butane, isobutane, propane and natural gasoline, that can be collectively removed from produced natural gas, separated into these substances and sold.

NYMEX - New York Mercantile Exchange.

OECD – Organization for Economic Cooperation and Development.

OPEC – Organization of Petroleum Exporting Countries.

Operational availability – A term used to measure the ability of an asset to produce to its maximum capacity over a specified period of time, after consideration of internal losses.

Productive well – A well that is not a dry well. Productive wells include producing wells and wells that are mechanically capable of production.

Proved developed reserves – Proved reserves that can be expected to be recovered through existing wells with existing equipment and operating methods or for which the cost of the required equipment is relatively minor compared to the cost of a new well and through installed extraction equipment and infrastructure operational at the time of the reserves estimate if the extraction is by means not involving a well.

Proved reserves – Proved crude oil and condensate, NGLs, natural gas and synthetic crude oil reserves are those quantities of crude oil and condensate, NGLs, natural gas and synthetic crude oil, 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.

Proved undeveloped reserves – Proved 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 or through installed extraction equipment and infrastructure operational at the time of the reserves estimate if the extraction is by means not involving a well. Undrilled locations can be classified as having proved undeveloped reserves 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. 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.

PSC – Production sharing contract.

Quest CCS – Quest Carbon Capture and Storage project at the AOSP in Alberta, Canada.

Reserve replacement ratio – A ratio which measures the amount of proved reserves added to our reserve base during the year relative to the amount of liquid hydrocarbons and natural gas produced.

Royalty interest – An interest in an oil or natural gas property entitling the owner to a share of oil or natural gas production free of costs of production.

SAGE – United Kingdom Scottish Area Gas Evacuation system composed of a pipeline and processing terminal.

SAR or SARs – Stock appreciation right or stock appreciation rights.

SCOOP – South Central Oklahoma Oil Province.

SEC – United States Securities and Exchange Commission.

Seismic – An exploration method of sending energy waves or sound waves into the earth and recording the wave reflections to indicate the type, size, shape and depth of subsurface rock formation (3-D seismic provides three-dimensional pictures and 4-D factors in changes that occurred over time).

STACK – Sooner Trend, Anadarko (basin), Canadian (and) Kingfisher (counties).

TD - Total depth or the bottom of a drilled hole.

Total proved reserves – The summation of proved developed reserves and proved undeveloped reserves.

U.K. – United Kingdom.

U.S. – United States of America.

U.S. GAAP – Accounting principles generally accepted in the U.S.

WCS – Western Canadian Select, an oil index benchmark price with monthly pricing based upon average adjusted for differentials unique to western Canada.

Working interest – The interest in a mineral property, which gives the owner that share of production from the property. A working interest owner bears that share of the costs of exploration, development and production in return for a share of production. Working interests are sometimes burdened by overriding royalty interests or other interests.

WTI – West Texas Intermediate crude oil, an oil index benchmark price as quoted by NYMEX.

Disclosures Regarding Forward-Looking Statements

This Annual Report on Form 10-K contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. These are statements, other than statements of historical fact, that give current expectations or forecasts of future events, including without limitation: our operational, financial and growth strategies, including drilling plans and projects, planned wells, rig count, inventory, seismic, exploration plans, maintenance activities, drilling and completion improvements, cost reductions, non-core asset sales, and financial flexibility; our ability to successfully effect those strategies and the expected timing and results thereof; our 2017 capital program and the planned allocation thereof; planned capital expenditures and the impact thereof; expectations regarding future economic and market conditions and their effects on us; our ability and strategies to manage through the lower commodity price cycle; our financial and operational outlook, and ability to fulfill that outlook; our financial position, balance sheet, liquidity and capital resources, and the benefits thereof; resource and asset potential; reserve estimates; growth expectations; and future production and sales expectations, and the drivers thereof. In addition, many forward-looking statements may be identified by the use of forward-looking terminology such as “anticipates,” “believes,” “estimates,” “expects,” “targets,” “plans,” “projects,” “could,” “may,” “should,” “would” or similar words indicating that future outcomes are uncertain. While we believe that our assumptions concerning future events are reasonable, we can give no assurance that these expectations will prove to be correct. A number of factors could cause results to differ materially from those indicated by such forward-looking statements including, but not limited to:

- conditions in the oil and gas industry, including supply/demand levels for crude oil and condensate, NGLs, natural gas and synthetic crude oil and the resulting impact on price;
- changes in expected reserve or production levels;
- changes in political or economic conditions in the jurisdictions in which we operate, including changes in foreign currency exchange rates, interest rates, inflation rates, and global and domestic market conditions;
- risks relating to our hedging activities;
- capital available for exploration and development;
- drilling and operating risks;
- well production timing;
- availability of drilling rigs, materials and labor, including the costs associated therewith;
- difficulty in obtaining necessary approvals and permits;
- non-performance by third parties of their contractual obligations;
- unforeseen hazards such as weather conditions, acts of war or terrorist acts and the governmental or military response thereto;
- cyber-attacks;
- changes in safety, health, environmental, tax and other regulations;
- other geological, operating and economic considerations; and
- other factors discussed in Item 1. Business, Item 1A. Risk Factors, Item 7. Management’s Discussion and Analysis of Financial Condition and Results of Operations, Item 7A. Quantitative and Qualitative Disclosures About Market Risk, and elsewhere in this report.

All forward-looking statements included in this report are based on information available to us on the date of this report. Except as required by law, we assume no duty to revise or update any forward-looking statements whether as a result of new information, future events or otherwise. All subsequent written and oral forward-looking statements attributable to us or persons acting on our behalf are expressly qualified in their entirety by the cautionary statements contained throughout this report.

PART I

Item 1. Business

General

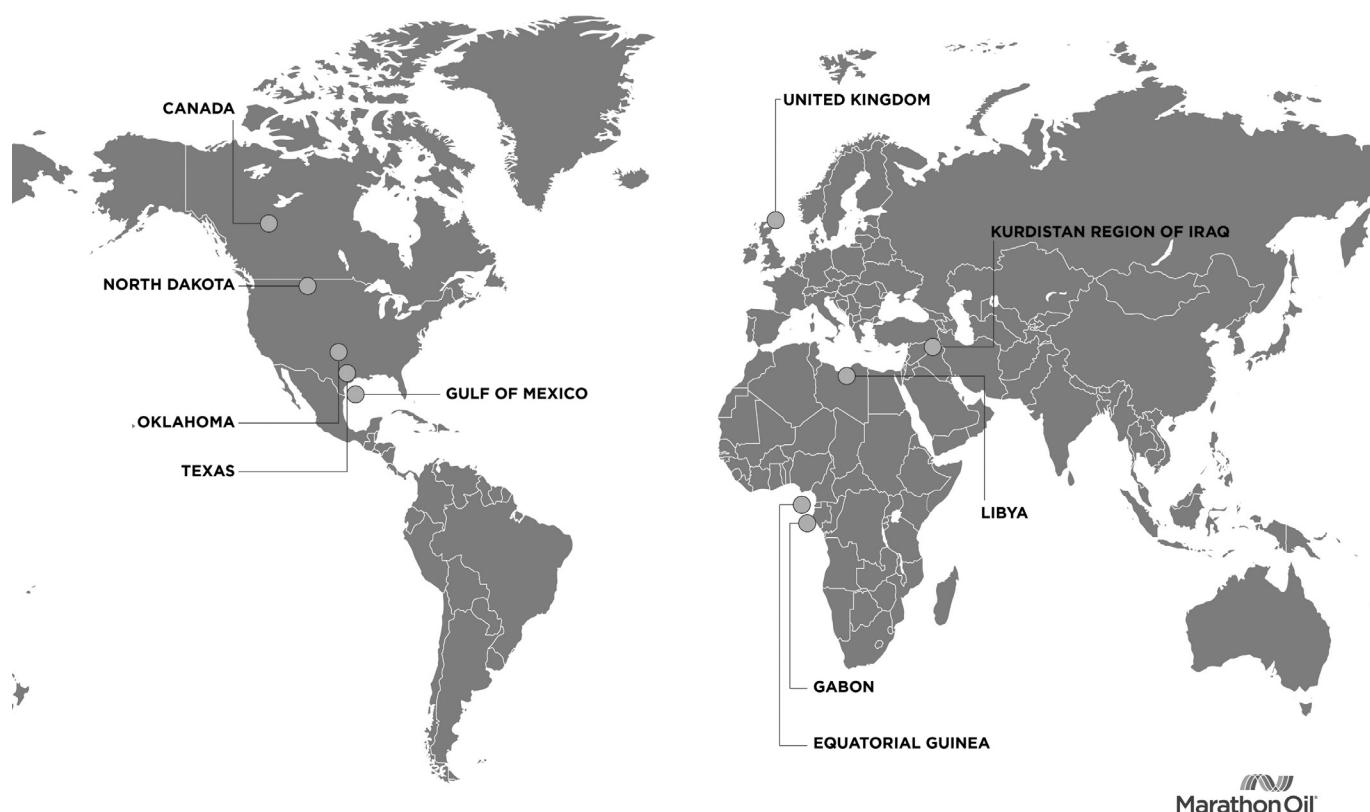
Marathon Oil Corporation (NYSE: MRO) is an independent exploration and production company based in Houston, Texas, focused on U.S. unconventional resource plays with operations in North America, Europe and Africa. Our corporate headquarters is located at 5555 San Felipe Street, Houston, Texas 77056-2723 and our telephone number is (713) 629-6600. Each of our three reportable operating segments is organized and managed based upon both geographic location and the nature of the products and services it offers. The three segments are:

- North America E&P – explores for, produces and markets crude oil and condensate, NGLs and natural gas in North America;
- International E&P – explores for, produces and markets crude oil and condensate, NGLs and natural gas outside of North America and produces and markets products manufactured from natural gas, such as LNG and methanol, in E.G.; and
- Oil Sands Mining – mines, extracts and transports bitumen from oil sands deposits in Alberta, Canada, and upgrades the bitumen to produce and market synthetic crude oil and vacuum gas oil.

We were incorporated in 2001.

See Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations, for a more detailed discussion of our operating results, cash flows and outlook, including our 2017 Capital Program.

The map below shows the locations of our worldwide operations.



Segment and Geographic Information

For reportable operating segment and geographic financial information, see Item 8. Financial Statements and Supplementary Data – Note 7 to the consolidated financial statements.

In the following discussion regarding our North America E&P, International E&P and Oil Sands Mining segments, references to net wells, acres, sales or investment indicate our ownership interest or share, as the context requires.

North America E&P Segment

We are engaged in oil and gas exploration, development and production activities in the U.S. Our primary focus in the North America E&P segment is concentrated within our three quality unconventional resource plays.

North America E&P-- Unconventional Resource Plays

Oklahoma Resource Basins – We hold approximately 365,000 net surface acres and includes 61,000 net acres added in the PayRock acquisition in the STACK Meramec play during 2016. In the SCOOP and STACK areas we hold net acres with rights to the Woodford, Springer, Meramec, Osage, Oswego, Granite Wash and other Pennsylvanian and Mississippian plays. Our primary 2017 focus will be in the Meramec play in the STACK and the Woodford and Springer plays in the SCOOP.

Eagle Ford - We hold approximately 145,000 net acres in south Texas where we have been operating since 2011. We operate more than 1,365 gross (962 net) producing wells, 32 central gathering and treating facilities and approximately 865 miles of gathering pipeline in the Eagle Ford. We also own and operate the Sugarloaf gathering system, a 42-mile natural gas pipeline through the heart of our acreage in Karnes, Atascosa and Bee Counties of south Texas.

Approximately 95% of the crude oil and condensate production is transported by pipeline with connections to multiple sales points. The ability to transport more barrels by pipeline enables us to improve/optimize price realizations, reduce costs, improve reliability and lessen our environmental footprint.

Bakken – We hold approximately 270,000 net acres in North Dakota and eastern Montana, where we have been operating since 2006. Our large scale water gathering system is handling nearly 70% of our produced water. We are currently transporting about 75% of our oil production on pipeline. In an effort to optimize price realizations, we sell our production in local North Dakota markets and to select purchasers who may elect to transport outside of the state.

Other North America

Our remaining properties in North America primarily consist of a number of outside operated assets in the Gulf of Mexico, the largest of which is the Gunflint field located on Mississippi Canyon Blocks 948, 949, 992 (N/2) and 993 (N/2). The Gunflint field, in which we hold an 18% non-operated working interest, achieved first oil in the third quarter of 2016.

In 2016, we continued our progress on portfolio management, with approximately \$1.3 billion of non-core assets sales, which mainly included Wyoming and West Texas properties. See Item 8. Financial Statements and Supplementary Data - Note 6 to the consolidated financial statements for information about these dispositions.

International E&P Segment

We are engaged in a range of activities, including oil and gas exploration, development and production across our international locations in E.G., Gabon, the Kurdistan Region of Iraq, Libya and the U.K. We include the results of our natural gas liquefaction operations and methanol production operations in E.G. in our International E&P segment.

Africa

Equatorial Guinea – Production – We own a 63% operated working interest under a PSC in the Alba field which is offshore E.G. Operational availability from our company-operated facilities averaged approximately 97% in 2016.

Equatorial Guinea – Gas Processing – We own a 52% interest in Alba Plant LLC, an equity method investee, which operates an onshore LPG processing plant located on Bioko Island. Alba field natural gas, under a long-term contract at a fixed price per btu, is processed by the LPG plant. The LPG plant extracts secondary condensate and LPG from the natural gas stream and uses some of the remaining dry natural gas in its operations.

We also own 60% of EGHoldings and 45% of AMPCO, both of which are accounted for as equity method investments. EGHoldings operates a 3.7 mmta LNG production facility and AMPCO operates a methanol plant, both located on Bioko Island. These facilities allow us to further monetize natural gas production from the Alba field. AMPCO had gross sales totaling 1,100 mt in 2016. Methanol production is sold to customers in Europe and the U.S.

The LNG production facility sells LNG under a 3.4 mmta, or 460 mmcf/d, sales and purchase agreement. Under the agreement, which runs through 2023, the purchaser takes delivery of the LNG on Bioko Island, with pricing linked principally to the Henry Hub index. Gross sales of LNG from this production facility totaled 3.6 mmta in 2016.

Libya – We hold a 16% non-operated working interest in the Waha concessions, which encompass almost 13 million gross acres located in the Sirte Basin of eastern Libya. Civil and political unrest has interrupted our production operations in recent years. During 2016, Force Majeure was lifted in September, production commenced shortly thereafter and liftings resumed in December. See Item 8. Financial Statements and Supplementary Data – Note 12 to the consolidated financial statements for additional information about our Libya operations.

Other International

United Kingdom – Our operated asset in the U.K. sector of the North Sea is the Brae area complex where we are the operator and have a 42% working interest in the South, Central, North and West Brae fields, a 39% working interest in the East Brae field, and a 28% working interest in the nearby Braemar field.

The strategic location of the Brae platforms, along with pipeline and onshore infrastructure, has generated third-party processing and transportation business since 1986. Currently, the operators of 31 third-party fields are contracted to use the Brae system and 72 mboed are being processed or transported through the Brae infrastructure. In addition to generating processing and pipeline tariff revenue, this third-party business optimizes infrastructure usage.

The working interest owners of the Brae area producing assets collectively own a 50% non-operated interest in the SAGE pipeline system, which has a total wet natural gas capacity of 1.1 bcf per day. The SAGE terminal at St. Fergus in northeast Scotland processes natural gas from the SAGE pipeline as well as approximately 0.3 bcf per day of third-party natural gas.

We own non-operated working interests in the Foinaven area complex, consisting of a 28% working interest in the main Foinaven field, a 47% working interest in East Foinaven and a 20% working interest in the T35 and T25 fields. The export of Foinaven liquid hydrocarbons is via shuttle tanker from an FPSO to market. All natural gas sales are to the non-operated Magnus platform for use as injection gas.

Kurdistan Region of Iraq – In 2016, we relinquished to the Kurdistan Regional Government our 45% operated working interest in the Harir block located northeast of Erbil. We have non-operated interests in two blocks located north-northwest of Erbil: Atrush with a 15% working interest and Sarsang with a 20% working interest.

International E&P Exploration

Equatorial Guinea – Exploration – We hold a 63% operated working interest in the Deep Luba discovery on the Alba Block and an 80% operated working interest in the Corona well on Block D. We plan to develop Block D through unitization with the Alba field. Negotiations have been substantially completed and we are awaiting approval from the host government.

Gabon – Exploration – We hold a 21.25% non-operated working interest in the Diaba License G4-223 and its related permit offshore Gabon, and a 100% participating interest and operatorship in the Tchicuate block where we have an exploration and production sharing agreement.

In 2015, we entered into agreements to sell our East Africa exploration acreage in Ethiopia and Kenya. This transaction closed during the first quarter of 2016. See Item 8. Financial Statements and Supplementary Data - Note 6 to the consolidated financial statements for information about these dispositions.

Oil Sands Mining Segment

We hold a 20% non-operated interest in the AOSP, an oil sands mining and upgrading joint venture located in Alberta, Canada. Other JV partners include Shell Canada Limited with a 60% ownership interest and Chevron Canada Limited with a 20% ownership interest. Shell Canada Limited operates the joint venture, which produces bitumen from oil sands deposits in the Athabasca region utilizing mining techniques and upgrades the bitumen into synthetic crude oils. The AOSP's mining and extraction assets are located near Fort McMurray, Alberta, and include the Muskeg River and the Jackpine mines. Gross design capacity of the combined mines is 255,000 (51,000 net) barrels of bitumen per day.

As of December 31, 2016, we own or have rights to participate in developed and undeveloped surface mineable leases totaling approximately 155,000 gross (31,000 net) acres. The underlying developed leases are held for the duration of the project, with royalties payable to the province of Alberta.

Reserves

Proved reserves are disclosed by continent and by country if the proved reserves related to any geographic area, on an oil equivalent barrel basis, represent 15% or more of our total proved reserves. A geographic area can be an individual country, group of countries within a continent or a continent. Other International ("Other Int'l"), includes the U.K. and the Kurdistan Region of Iraq. Approximately 79% of our proved reserves are located in OECD countries.

The following tables set forth estimated quantities of our total proved crude oil and condensate, NGLs, natural gas and synthetic crude oil reserves based upon an SEC pricing for period ended December 31, 2016.

| December 31, 2016 | North America | | | Africa | | | Other Int'l | Total |
|--|---------------|--------|-------|--------|-------|-------|-------------|-------|
| | U.S. | Canada | Total | E.G. | Other | Total | | |
| Proved Developed Reserves | | | | | | | | |
| Crude oil and condensate (<i>mmbbl</i>) | 238 | — | 238 | 45 | 172 | 217 | 13 | 468 |
| Natural gas liquids (<i>mmbbl</i>) | 78 | — | 78 | 24 | — | 24 | — | 102 |
| Natural gas (<i>bcf</i>) | 648 | — | 648 | 943 | 95 | 1,038 | 5 | 1,691 |
| Synthetic crude oil (<i>mmbbl</i>) | — | 692 | 692 | — | — | — | — | 692 |
| Total proved developed reserves (<i>mmboe</i>) | 424 | 692 | 1,116 | 226 | 188 | 414 | 14 | 1,544 |
| Proved Undeveloped Reserves | | | | | | | | |
| Crude oil and condensate (<i>mmbbl</i>) | 325 | — | 325 | — | — | — | 9 | 334 |
| Natural gas liquids (<i>mmbbl</i>) | 92 | — | 92 | — | — | — | — | 92 |
| Natural gas (<i>bcf</i>) | 640 | — | 640 | — | 110 | 110 | 5 | 755 |
| Synthetic crude oil (<i>mmbbl</i>) | — | — | — | — | — | — | — | — |
| Total proved undeveloped reserves (<i>mmboe</i>) | 524 | — | 524 | — | 18 | 18 | 10 | 552 |
| Total Proved Reserves | | | | | | | | |
| Crude oil and condensate (<i>mmbbl</i>) | 563 | — | 563 | 45 | 172 | 217 | 22 | 802 |
| Natural gas liquids (<i>mmbbl</i>) | 170 | — | 170 | 24 | — | 24 | — | 194 |
| Natural gas (<i>bcf</i>) | 1,288 | — | 1,288 | 943 | 205 | 1,148 | 10 | 2,446 |
| Synthetic crude oil (<i>mmbbl</i>) | — | 692 | 692 | — | — | — | — | 692 |
| Total proved reserves (<i>mmboe</i>) | 948 | 692 | 1,640 | 226 | 206 | 432 | 24 | 2,096 |

As of December 31, 2016, we had total estimated proved reserves of 802 mmbbl of crude oil and condensate, 194 mmbbl of NGLs, 2,446 bcf of natural gas, and 692 mmbbl of synthetic crude oil. Combined, total estimated proved reserves are 2,096 mmboe, of which liquids represents 81 percent. As of December 31, 2016, we had estimated proved developed reserves totaled 1,544 mmboe or 74% and estimated proved undeveloped reserves totaling 552 mmboe or 26% of our total proved reserves. For additional detail on reserves, see Item 8. Financial Statements and Supplementary Data - Supplementary Information on Oil and gas Producing Activities.

Preparation of Reserve Estimates

All estimates of reserves are made in compliance with SEC Rule 4-10 of Regulation S-X. Crude oil and condensate, NGLs, natural gas and synthetic crude oil reserve estimates are reviewed and approved by our Corporate Reserves Group ("CRG"), which includes our Director of Corporate Reserves and his staff of Reserve Coordinators. Crude oil and condensate, NGLs, natural gas and synthetic crude oil reserve estimates are developed or reviewed by Qualified Reserves Estimators ("QREs"). QREs are petro-technical professionals located throughout our organization who meet the qualifications we have established for employees engaged in estimating reserves and resources. QREs have the education, experience, and training necessary to estimate reserves and resources in a manner consistent with all external reserve estimation regulations and internal resource estimation directives and practices. QREs generally hold at least a Bachelor of Science degree in the appropriate technical field, have a minimum of three years of industry experience with at least one year in reserve estimation and have completed our QRE training course. All reserves changes (including proved) must be approved by the CRG. Additionally, any change to proved reserve estimates in excess of 5 mmboe on a total field basis, within a single month, must be approved by the Director of Corporate Reserves.

The Director of Corporate Reserves, who reports to our Chief Financial Officer, has a Bachelor of Science degree in petroleum engineering and is a registered Professional Engineer in the State of New Mexico. In his 30 years with Marathon Oil, he has held numerous engineering and management positions, including more recently managing reservoir engineering and geoscience for our Eagle Ford development in South Texas. He is a 25 year member of the Society of Petroleum Engineers ("SPE").

Technologies used in proved reserves estimation includes statistical analysis of production performance, decline curve analysis, pressure and rate transient analysis, pressure gradient analysis, reservoir simulation and volumetric analysis. The

observed statistical nature of production performance coupled with highly certain reservoir continuity or quality within the reliable technology areas and sufficient proved developed locations establish the reasonable certainty criteria required for booking proved reserves.

Estimates of synthetic crude oil reserves were prepared by GLJ Petroleum Consultants of Calgary, Alberta, Canada, third-party consultants during 2015 and 2014. Their reports for all years are filed as exhibits to this Annual Report on Form 10-K. The individual responsible, during 2015 and 2014, for the estimates of our synthetic crude oil reserves had 15 years of experience in petroleum engineering, has conducted surface mineable oil sands evaluations since 2009 and is a registered Practicing Professional Engineer in the Province of Alberta.

Audits of Estimates

We engage third-party consultants to provide, at a minimum, independent estimates for fields that comprise 80% of our total proved reserves over a rolling four-year period. We exceeded this percentage for the four-year period ended December 31, 2016, with 84% of our total proved reserves independently audited. An audit tolerance at a field level of +/- 10%, to our internal estimates, has been established. Should the third-party consultants' initial analysis fall outside our tolerance band, both parties will re-examine the information provided, request additional data and refine their analysis, if appropriate. In the very limited instances where differences outside the 10% tolerance cannot be resolved by year end, a plan to resolve the difference is developed and executive management consent is obtained. The audit process did not result in any significant changes to our reserve estimates for 2016, 2015 or 2014.

During 2016, 2015 and 2014, Netherland, Sewell & Associates, Inc. prepared a reserves certification for the last three reporting periods for the Alba field in E.G. The NSAI summary reports are filed as an exhibit to this Annual Report on Form 10-K. Members of the NSAI team have multiple years of industry experience, having worked for large, international oil and gas companies before joining NSAI. NSAI's technical team members meet or exceed the education, training, and experience requirements set forth in the Standards Pertaining to the Estimating and Auditing of Oil and Gas Reserves Information promulgated by the Society of Petroleum Engineers. The senior technical advisor has over 12 years of practical experience in petroleum engineering and the estimation and evaluation of reserves and is a registered Professional Engineer in the State of Texas. The second team member has over 10 years of practical experience in petroleum geosciences and is a licensed Professional Geoscientist in the State of Texas.

Ryder Scott Company also performed audits of the prior years' reserves of several of our fields in 2016, 2015 and 2014. Their summary reports are filed as exhibits to this Annual Report on Form 10-K. The team lead for Ryder Scott has over 34 years of industry experience, having worked for a major financial advisory services group before joining Ryder Scott. He is a 25 year member of SPE and is a registered Professional Engineer in the State of Texas.

Productive and Drilling Wells

For our North America E&P and International E&P segments, the following table sets forth gross and net productive wells, service wells and drilling wells as of December 31 for the years presented.

| | Productive Wells ^(a) | | | | | | | | |
|---------------------|---------------------------------|-------|-------------|-------|---------------|-----|----------------|-----|--|
| | Oil | | Natural Gas | | Service Wells | | Drilling Wells | | |
| | Gross | Net | Gross | Net | Gross | Net | Gross | Net | |
| 2016 | | | | | | | | | |
| U.S. ^(b) | 4,533 | 1,650 | 1,830 | 708 | 821 | 85 | 42 | 10 | |
| E.G. | — | — | 17 | 11 | 2 | 1 | — | — | |
| Other Africa | 1,071 | 175 | 7 | 1 | 94 | 16 | — | — | |
| Total Africa | 1,071 | 175 | 24 | 12 | 96 | 17 | — | — | |
| Other International | 62 | 23 | 35 | 14 | 23 | 8 | — | — | |
| Total | 5,666 | 1,848 | 1,889 | 734 | 940 | 110 | 42 | 10 | |
| 2015 | | | | | | | | | |
| U.S. | 7,198 | 2,878 | 1,796 | 750 | 2,727 | 747 | | | |
| E.G. | — | — | 17 | 11 | 2 | 1 | | | |
| Other Africa | 1,071 | 175 | 7 | 1 | 94 | 16 | | | |
| Total Africa | 1,071 | 175 | 24 | 12 | 96 | 17 | | | |
| Other International | 59 | 21 | 39 | 16 | 24 | 8 | | | |
| Total | 8,328 | 3,074 | 1,859 | 778 | 2,847 | 772 | | | |
| 2014 | | | | | | | | | |
| U.S. | 7,058 | 2,919 | 2,246 | 1,023 | 2,638 | 760 | | | |
| E.G. | — | — | 16 | 11 | 2 | 1 | | | |
| Other Africa | 1,071 | 175 | 7 | 1 | 94 | 16 | | | |
| Total Africa | 1,071 | 175 | 23 | 12 | 96 | 17 | | | |
| Other International | 55 | 20 | 39 | 16 | 24 | 8 | | | |
| Total | 8,184 | 3,114 | 2,308 | 1,051 | 2,758 | 785 | | | |

^(a) Of the gross productive wells, wells with multiple completions operated by us totaled 8, 12 and 31 as of December 31, 2016, 2015 and 2014. Information on wells with multiple completions operated by others is unavailable to us.

^(b) Reduction in December 31, 2016 gross and net productive wells and service wells is primarily due to the dispositions of our West Texas and Wyoming assets in 2016. See Item 8. Financial Statements and Supplementary Data - Note 6 to the consolidated financial statements for information about these dispositions.

Drilling Activity

For our North America E&P and International E&P segments, the table below sets forth, by geographic area, the number of net productive and dry development and exploratory wells completed as of December 31 for the years represented.

| | Development | | | | Exploratory | | | | Total |
|---------------------|-------------|-------------|-----|-------|-------------|-------------|-----|-------|-------|
| | Oil | Natural Gas | Dry | Total | Oil | Natural Gas | Dry | Total | |
| 2016 | | | | | | | | | |
| U.S. | 64 | 12 | — | 76 | 70 | 27 | — | 97 | 173 |
| E.G. | — | — | — | — | — | — | — | — | — |
| Other Africa | — | — | — | — | — | — | — | — | — |
| Total Africa | — | — | — | — | — | — | — | — | — |
| Other International | — | — | — | — | — | — | — | — | — |
| Total | 64 | 12 | — | 76 | 70 | 27 | — | 97 | 173 |
| 2015 | | | | | | | | | |
| U.S. | 135 | 36 | 11 | 182 | 49 | 48 | 1 | 98 | 280 |
| E.G. | — | 1 | — | 1 | — | — | 1 | 1 | 2 |
| Other Africa | — | — | — | — | — | — | — | — | — |
| Total Africa | — | 1 | — | 1 | — | — | 1 | 1 | 2 |
| Other International | 1 | — | — | 1 | — | — | — | — | 1 |
| Total | 136 | 37 | 11 | 184 | 49 | 48 | 2 | 99 | 283 |
| 2014 | | | | | | | | | |
| U.S. | 253 | 43 | 1 | 297 | 49 | 19 | 4 | 72 | 369 |
| E.G. | — | — | — | — | — | — | 1 | 1 | 1 |
| Other Africa | 1 | — | — | 1 | — | — | — | — | 1 |
| Total Africa | 1 | — | — | 1 | — | — | 1 | 1 | 2 |
| Other International | 1 | — | — | 1 | — | — | — | — | 1 |
| Total | 255 | 43 | 1 | 299 | 49 | 19 | 5 | 73 | 372 |

Acreage

We believe we have satisfactory title to our North America E&P and International E&P properties in accordance with standards generally accepted in the industry; nevertheless, we can be involved in title disputes from time to time which may result in litigation. In the case of undeveloped properties, an investigation of record title is made at the time of acquisition. Drilling title opinions are usually prepared before commencement of drilling operations. Our title to properties may be subject to burdens such as royalty, overriding royalty, carried, net profits, working and other similar interests and contractual arrangements customary in the industry. In addition, our interests may be subject to obligations or duties under applicable laws or burdens such as net profits interests, liens related to operating agreements, development obligations or capital commitments under international PSCs or exploration licenses.

The following table sets forth, by geographic area, the gross and net developed and undeveloped acreage held in our North America E&P and International E&P segments as of December 31, 2016.

| <i>(In thousands)</i> | Developed | | Undeveloped | | Developed and Undeveloped | |
|-----------------------|-----------|-------|-------------|-------|---------------------------|-------|
| | Gross | Net | Gross | Net | Gross | Net |
| U.S. | 1,399 | 1,053 | 413 | 386 | 1,812 | 1,439 |
| Canada | — | — | 142 | 54 | 142 | 54 |
| Total North America | 1,399 | 1,053 | 555 | 440 | 1,954 | 1,493 |
| E.G. | 45 | 29 | 92 | 73 | 137 | 102 |
| Other Africa | 12,909 | 2,108 | 2,519 | 753 | 15,428 | 2,861 |
| Total Africa | 12,954 | 2,137 | 2,611 | 826 | 15,565 | 2,963 |
| Other International | 86 | 31 | 171 | 32 | 257 | 63 |
| Total | 14,439 | 3,221 | 3,337 | 1,298 | 17,776 | 4,519 |

In the ordinary course of business, based on our evaluations of certain geologic trends and prospective economics, we have allowed certain lease acreage to expire and may allow additional acreage to expire in the future. If production is not established or we take no other action to extend the terms of the leases, licenses or concessions, additional undeveloped acreage will expire in future years. We plan to continue the terms of certain of these licenses and concession areas or retain leases through operational or administrative actions.

Net Production

| | North America | | | Africa | | | Other Int'l | Disc Ops | Total |
|--|---------------|--------|-------|--------|-------|-------|-------------|----------|-------|
| | U.S. | Canada | Total | E.G. | Other | Total | | | |
| Year Ended December 31, | | | | | | | | | |
| 2016 | | | | | | | | | |
| Crude and condensate (mbbl/d) ^(a) | 131 | — | 131 | 20 | 3 | 23 | 12 | — | 166 |
| Natural gas liquids (mbbl/d) | 40 | — | 40 | 11 | — | 11 | — | — | 51 |
| Natural gas (mmcf/d) ^(b) | 314 | — | 314 | 425 | — | 425 | 28 | — | 767 |
| Synthetic crude oil (mbbl/d) ^(c) | — | 48 | 48 | — | — | — | — | — | 48 |
| Total production (mboed) | 223 | 48 | 271 | 102 | 3 | 105 | 17 | — | 393 |
| 2015 | | | | | | | | | |
| Crude and condensate (mbbl/d) ^(a) | 171 | — | 171 | 19 | — | 19 | 14 | — | 204 |
| Natural gas liquids (mbbl/d) | 39 | — | 39 | 10 | — | 10 | — | — | 49 |
| Natural gas (mmcf/d) ^(b) | 351 | — | 351 | 410 | — | 410 | 21 | — | 782 |
| Synthetic crude oil (mbbl/d) ^(c) | — | 45 | 45 | — | — | — | — | — | 45 |
| Total production (mboed) | 269 | 45 | 314 | 97 | — | 97 | 18 | — | 429 |
| 2014 | | | | | | | | | |
| Crude and condensate (mbbl/d) ^(a) | 157 | — | 157 | 21 | 7 | 28 | 11 | 48 | 244 |
| Natural gas liquids (mbbl/d) | 29 | — | 29 | 10 | — | 10 | — | — | 39 |
| Natural gas (mmcf/d) ^(b) | 310 | — | 310 | 439 | 1 | 440 | 21 | 37 | 808 |
| Synthetic crude oil (mbbl/d) ^(c) | — | 41 | 41 | — | — | — | — | — | 41 |
| Total production (mboed) | 238 | 41 | 279 | 104 | 7 | 111 | 15 | 54 | 459 |

^(a) The amounts correspond with the basis for fiscal settlements with governments, representing equity tanker liftings and direct deliveries of liquid hydrocarbons.

^(b) Excludes volumes acquired from third parties for injection and subsequent resale.

^(c) Upgraded bitumen excluding blendstocks.

Average Production Cost per Unit ^(a)

| (Dollars per boe) | North America | | | Africa | | | Other Int'l | Disc Ops | Total |
|-------------------|---------------|----------|----------|---------|-------|---------|-------------|----------|----------|
| | U.S. | Canada | Total | E.G. | Other | Total | | | |
| 2016 | \$ 9.84 | \$ 29.36 | \$ 13.35 | \$ 2.17 | N.M. | \$ 2.17 | \$ 23.13 | \$ — | \$ 11.02 |
| 2015 | 10.65 | 38.42 | 14.69 | 2.37 | N.M. | 2.37 | 27.23 | — | 12.62 |
| 2014 | 13.34 | 46.63 | 18.73 | 4.03 | N.M. | 4.03 | 47.06 | 8.92 | 15.37 |

^(a) Production, severance and property taxes are excluded; however, shipping and handling as well as other operating expenses are included in the production costs used in this calculation. See Item 8. Financial Statements and Supplementary Data – Supplementary Information on Oil and Gas Producing Activities - Results of Operations for Oil and Gas Production Activities for more information regarding production costs.

N.M. Not meaningful information due to limited sales.

Average Sales Price per Unit^(a)

| <i>(Dollars per unit)</i> | North America | | | Africa | | | Other Int'l | Disc Ops | Total |
|-------------------------------------|---------------|--------|----------|---------------------|----------|----------|-------------|----------|----------|
| | U.S. | Canada | Total | E.G. | Other | Total | | | |
| 2016 | | | | | | | | | |
| Crude and condensate (<i>bbl</i>) | \$ 38.57 | \$ — | \$ 38.57 | \$ 38.85 | \$ 57.69 | \$ 40.95 | \$ 43.21 | \$ — | \$ 39.23 |
| Natural gas liquids (<i>bbl</i>) | 13.15 | — | 13.15 | 1.00 ^(b) | — | 1.00 | 26.41 | — | 10.68 |
| Natural gas (<i>mcft</i>) | 2.38 | — | 2.38 | 0.24 ^(b) | — | 0.24 | 4.80 | — | 1.26 |
| Synthetic crude oil (<i>bbl</i>) | — | 37.57 | 37.57 | — | — | — | — | — | 37.57 |
| 2015 | | | | | | | | | |
| Crude and condensate (<i>bbl</i>) | \$ 43.50 | \$ — | \$ 43.50 | \$ 42.83 | \$ — | \$ 42.83 | \$ 53.91 | \$ — | \$ 44.14 |
| Natural gas liquids (<i>bbl</i>) | 13.37 | — | 13.37 | 1.00 ^(b) | — | 1.00 | 32.53 | — | 11.16 |
| Natural gas (<i>mcft</i>) | 2.66 | — | 2.66 | 0.24 ^(b) | — | 0.24 | 6.85 | — | 1.50 |
| Synthetic crude oil (<i>bbl</i>) | — | 40.13 | 40.13 | — | — | — | — | — | 40.13 |
| 2014 | | | | | | | | | |
| Crude and condensate (<i>bbl</i>) | \$ 85.25 | \$ — | \$ 85.25 | \$ 81.01 | \$ 94.70 | \$ 84.48 | \$ 94.31 | \$109.80 | \$ 90.37 |
| Natural gas liquids (<i>bbl</i>) | 33.42 | — | 33.42 | 1.00 ^(b) | — | 1.00 | 67.73 | — | 25.25 |
| Natural gas (<i>mcft</i>) | 4.57 | — | 4.57 | 0.24 ^(b) | 3.11 | 0.25 | 8.27 | 9.94 | 2.55 |
| Synthetic crude oil (<i>bbl</i>) | — | 83.35 | 83.35 | — | — | — | — | — | 83.35 |

^(a) Excludes gains or losses on commodity derivative instruments.

^(b) Primarily represents fixed prices under long-term contracts with Alba Plant LLC, AMPCO and/or EGHoldings, which are equity method investees. We include our share of income from each of these equity method investees in our International E&P Segment.

Marketing

Our reportable operating segments include activities related to the marketing and transportation of substantially all of our crude oil and condensate, NGLs, natural gas and synthetic crude oil. These activities include the transportation of production to market centers, the sale of commodities to third parties and the storage of production. We balance our various sales, storage and transportation positions in order to aggregate volumes to satisfy transportation commitments and to achieve flexibility within product types and delivery points. Such activities can include the purchase of commodities from third parties for resale.

Delivery Commitments

We have committed to deliver quantities of crude oil and condensate, NGLs, natural gas and synthetic crude oil to customers under a variety of contracts. As of December 31, 2016, the contracts for fixed and determinable quantities were at variable, market-based pricing and related primarily to the following sales commitments:

| | 2017 | 2018 | 2019 | Thereafter | Commitment Period Through |
|--|------|------|------|------------|---------------------------|
| Eagle Ford | | | | | |
| Crude and condensate (<i>mbbl/d</i>) | 105 | 80 | 66 | 51 | 2020 |
| Natural gas (<i>mmcf/d</i>) | 210 | 168 | 168 | 46 - 168 | 2022 |
| Bakken | | | | | |
| Crude and condensate (<i>mbbl/d</i>) | 5 | 10 | 10 | 5-10 | 2027 |
| OSM | | | | | |
| Synthetic crude oil (<i>mbbl/d</i>) | 10 | — | — | — | |

All of these contracts provide the options of delivering third-party volumes or paying a monetary shortfall penalty if production is inadequate. Certain volumetric requirements can also be met through purchases of third-party volumes. In addition to the sales contracts discussed above, we have entered into numerous agreements for transportation and processing of our equity production. Some of these contracts have volumetric requirements which could require monetary shortfall penalties if our production is inadequate to meet the terms.

Competition

Competition exists in all sectors of the oil and gas industry and, in particular, in the exploration for and development of new reserves. We compete with major integrated and independent oil and gas companies, as well as national oil companies, for the acquisition of oil and natural gas leases and other properties. See Item 1A. Risk Factors for discussion of specific areas in which we compete and related risks.

We also compete with other producers of synthetic crude oil for the sale of our synthetic crude oil to refineries primarily in North America. Because not all refineries are able to process or refine synthetic crude oil in significant volumes, sufficient market demand may not exist at all times to absorb our share of the synthetic crude oil production from the AOSP at economically viable prices.

Environmental, Health and Safety Matters

The Health, Environmental, Safety and Corporate Responsibility Committee of our Board of Directors is responsible for overseeing our position on public issues, including environmental, health and safety matters. Our Corporate Health, Environment, Safety and Security organization has the responsibility to ensure that our operating organizations maintain environmental compliance systems that support and foster our compliance with applicable laws and regulations. Committees comprised of certain of our officers review our overall performance associated with various environmental compliance programs. We also have a Corporate Emergency Response Team which oversees our response to any major environmental or other emergency incident involving us or any of our properties.

Our businesses are subject to numerous laws and regulations relating to the protection of the environment, health and safety at the national, state and local levels. These laws and their implementing regulations and other similar state and local laws and rules can impose certain operational controls for minimization of pollution, recordkeeping, monitoring and reporting requirements or other operational or siting constraints on our business, result in costs to remediate releases of regulated substances, including crude oil, into the environment, or require costs to remediate sites to which we sent regulated substances for disposal. In some cases, these laws can impose strict liability for the entire cost of clean-up on any responsible party without regard to negligence or fault and impose liability on us for the conduct of others (such as prior owners or operators of our assets) or conditions others have caused, or for our acts that complied with all applicable requirements when we performed them. We have incurred and will continue to incur capital, operating and maintenance, and remediation expenditures as a result of environmental laws and regulations.

New laws have been enacted and regulations are being adopted by various regulatory agencies on a continuing basis and the costs of compliance with these new laws and regulations can only be broadly appraised until their implementation becomes more defined.

For a discussion of environmental capital expenditures and costs of compliance for air, water, solid waste and remediation, see Item 3. Legal Proceedings and Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations – Management's Discussion and Analysis of Environmental Matters, Litigation and Contingencies.

Air and Climate Change

The EPA finalized a more stringent National Ambient Air Quality Standard ("NAAQS") for ozone in October 2015. This more stringent ozone NAAQS could result in additional areas being designated as non-attainment, including areas in which we operate, which may result in an increase in costs for emission controls and requirements for additional monitoring and testing, as well as a more cumbersome permitting process. Although there may be an adverse financial impact (including compliance costs, potential permitting delays and increased regulatory requirements) associated with this revised regulation, the extent and magnitude of that impact cannot be reliably or accurately estimated due to the present uncertainty regarding any additional measures and how they will be implemented. The EPA's final rule has been judicially challenged by both industry and other interested parties, and the outcome of this litigation may also impact implementation and revisions to the rule.

In June 2016, the EPA published a suite of final rules specifically targeting methane emissions from the oil and gas industry, aggregation of air emissions sources and minor source permitting for operations on tribal lands. The EPA has also announced that it intends to impose methane emission standards for existing sources and has issued information collection requests for oil and natural gas facilities. We are currently evaluating the impact of these rules on our operations. If we are unable to comply with the terms of these regulations, we could be required to forego construction or implement modifications to certain operations. These regulations may also increase compliance costs for some facilities we own or operate, and result in administrative, civil and/or criminal penalties for non-compliance.

In 2010, the EPA promulgated rules that require us to monitor and submit an annual report on our greenhouse gas emissions. In October 2015, the EPA finalized rules that added new sources to the scope of the greenhouse gas monitoring and reporting requirements. These new sources include gathering and boosting facilities as well as completions and workovers from hydraulically fractured oil wells. The revisions also include the addition of well identification reporting requirements for certain facilities. Further, state, national and international requirements to reduce greenhouse emissions are being proposed and in some cases promulgated (see discussion above regarding regulation of methane emissions from the oil and gas industry by the EPA). Potential legislation and regulations pertaining to climate change could also affect our operations. The cost to comply with these laws and regulations cannot be estimated at this time.

In November 2016, the Bureau of Land Management (“BLM”) issued a final rule to further restrict venting and/or flaring of gas from facilities subject to BLM jurisdiction, and to modify certain royalty requirements. These regulations are currently subject to a challenge under the Congressional Review Act, which if successful, would result in complete withdrawal of these requirements. If not withdrawn, this rule is expected to result in additional costs of compliance as well as increased monitoring, recordkeeping and recording for some of our facilities. If we are unable to comply with the terms of these regulations, we could be required to forego certain operations. These regulations may also result in administrative, civil and/or criminal penalties for non-compliance.

For additional information, see Item 1A. Risk Factors. As part of our commitment to environmental stewardship, we estimate and publicly report greenhouse gas emissions from our operations. We are working to continuously improve the accuracy and completeness of these estimates. In addition, we continuously strive to improve operational and energy efficiencies through resource and energy conservation where practicable and cost effective.

Hydraulic Fracturing

Hydraulic fracturing is a commonly used process that involves injecting water, sand and small volumes of chemicals into the wellbore to fracture the hydrocarbon-bearing rock thousands of feet below the surface to facilitate higher flow of hydrocarbons into the wellbore. Our business uses this technique extensively throughout our operations. Hydraulic fracturing has been regulated at the state and local level through permitting and compliance requirements. Federal, state and local-level laws or regulations targeting various aspects of the hydraulic fracturing process are being considered, or have been proposed or implemented. For example, the U.S. Congress has considered legislation that would require additional regulation affecting the hydraulic fracturing process, and may be expected to do so in future legislative sessions. Further, various state and local-level initiatives in regions with substantial shale resources have been or may be proposed or implemented to further regulate hydraulic fracturing practices, limit water withdrawals and water use, require disclosure of fracturing fluid constituents, restrict which additives may be used, or implement temporary or permanent bans on hydraulic fracturing.

For additional information, see Item 1A. Risk Factors.

Transportation

A number of state and federal rules apply to the transportation of liquid hydrocarbons. In 2015, the U.S. Department of Transportation (“DOT”) finalized a rule relating to testing and classification of liquid hydrocarbons and imposing additional restrictions on the types of rail cars that may be used in certain types of liquid hydrocarbon service. Similarly, in August 2016, the Pipeline and Hazardous Materials Safety Administration (“PHMSA”), a sub-agency of DOT, published a final rule setting additional safety requirements and retrofits for rail cars. PHMSA is also considering revising its regulations to require particular methods for conducting vapor pressure testing and sampling of unrefined petroleum-based products for transportation. Although our businesses do not own rail cars and purchasers of our liquid hydrocarbons make arrangements for its transportation, such regulations could increase transportation costs which are passed on to Marathon Oil by liquid hydrocarbon purchasers. In addition, PHMSA has proposed or announced the intention to propose various rules related to pipeline transportation of natural gas and/or liquid hydrocarbons. For example, in October 2015, PHMSA published a notice of proposed rulemaking amending its hazardous liquid pipeline safety regulations and in April 2016, published a notice of proposed rulemaking addressing natural gas transmission and gathering lines. Such regulations could increase the regulatory burden on our businesses where we own or operate pipelines or could otherwise increase costs to third parties that are passed on to Marathon Oil.

Water

In 2014, the EPA and the U.S. Army Corps of Engineers published proposed regulations which expand the surface waters that are regulated under the Clean Water Act and its various programs. While these regulations were finalized largely as proposed in 2015, the rule has been stayed by the courts pending a substantive decision on the merits. If this rule is ultimately implemented, the expansion of CWA jurisdiction will result in additional costs of compliance as well as increased monitoring, recordkeeping and recording for some of our facilities.

Concentrations of Credit Risk

We are 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 continuing review, including the use of master netting agreements, where appropriate. In 2016, sales to Irving Oil and Valero Marketing and Supply and each of their respective affiliates accounted for approximately 17% and 10% of our total revenues. In 2015, sales to Irving Oil and Shell Oil and each of their respective affiliates accounted for approximately 13% and 11% of our total revenues. In 2014, sales to Shell Oil and its affiliates accounted for approximately 10% of our total revenues.

Trademarks, Patents and Licenses

We currently hold a number of U.S. and foreign patents and have various pending patent applications. Although in the aggregate our trademarks, patents and licenses are important to us, we do not regard any single trademark, patent, license or group of related trademarks, patents or licenses as critical or essential to our business as a whole.

Employees

We had 2,117 active, full-time employees as of December 31, 2016.

Executive Officers of the Registrant

The executive officers of Marathon Oil and their ages as of February 1, 2017, are as follows:

| | | |
|-----------------------|----|---|
| Lee M. Tillman | 55 | President and Chief Executive Officer |
| Sylvia J. Kerrigan | 51 | Executive Vice President, General Counsel and Secretary |
| T. Mitch Little | 53 | Executive Vice President—Operations |
| Patrick J. Wagner | 52 | Interim Chief Financial Officer and Vice President-Corporate Development and Strategy |
| Catherine L. Krajicek | 55 | Vice President—Conventional |
| Gary E. Wilson | 55 | Vice President, Controller and Chief Accounting Officer |

Mr. Tillman was appointed president and chief executive officer in August 2013. Mr. Tillman is also a member of our Board of Directors. Prior to this appointment, Mr. Tillman served as vice president of engineering for ExxonMobil Development Company (a project design and execution company), where he was responsible for all global engineering staff engaged in major project concept selection, front-end design and engineering. Between 2007 and 2010, Mr. Tillman served as North Sea production manager and lead country manager for subsidiaries of ExxonMobil in Stavanger, Norway. Mr. Tillman began his career in the oil and gas industry at Exxon Corporation in 1989 as a research engineer and has extensive operations management and leadership experience.

Ms. Kerrigan was appointed executive vice president, general counsel and secretary in October 2012, having served as vice president, general counsel and secretary since November 2009. Prior to these appointments, Ms. Kerrigan served as assistant general counsel since January 2003.

Mr. Little was appointed executive vice president of operations in August 2016 after having served as vice president, conventional since December 2015, vice president international and offshore exploration and production operations since September 2013, and as vice president, international production operations since September 2012. Prior to that, Mr. Little was resident manager of our Norway operations and served as general manager, worldwide drilling and completions. Mr. Little joined Marathon Oil in 1986 and has since held a number of engineering and management positions of increasing responsibility.

Mr. Wagner was appointed vice president—corporate development in April 2014, and since August 2016 has been serving as interim chief financial officer. Prior to joining Marathon Oil, he served as senior vice president, western business unit, for QR Energy LP (an oil and natural gas producer) and the affiliated Quantum Resources Management, which he joined in early 2012 as vice president, exploitation. Prior to that, Mr. Wagner was managing director in Houston for Scotia Waterous, the oil and gas arm of Scotiabank (an international banking services provider), from 2010 to 2012. Before joining Scotia, Mr. Wagner was vice president, Gulf of Mexico, for Devon Energy Corp. (an oil and natural gas producer), having joined Devon in 2003 as manager, international exploitation.

Ms. Krajicek was appointed vice president—conventional assets in August 2016 after having served as vice president of technology and innovation since December 2015. Prior to that, Ms. Krajicek served as vice president, health, environment, safety and security from January 2015 through December 2015. Ms. Krajicek joined Marathon Oil in 2007 and has since held a number of positions of increasing responsibility. Prior to joining the Company, Ms. Krajicek spent 22 years with Conoco and then ConocoPhillips (a multinational energy corporation), where she held a variety of reservoir engineering and asset management and development management positions for upstream and mid-stream businesses under development, both in the U.S. and internationally.

Mr. Wilson was appointed vice president, controller and chief accounting officer in October 2014. Prior to joining Marathon Oil, he served in various finance and accounting positions of increasing responsibility at Noble Energy, Inc. (a global

exploration and production company) since 2001, including as director corporate accounting from February 2014 through September 2014, director global operations services finance from October 2012 through February 2014, director controls and reporting from April 2011 through September 2012, and international finance manager from September 2009 through March 2011.

Available Information

Our website is www.marathonoil.com. Our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q and Current Reports on Form 8-K and other reports and filings with the SEC are available free of charge on our website as soon as reasonably practicable after the reports are filed or furnished with the SEC. Information contained on our website is not incorporated into this Annual Report on Form 10-K or our other securities filings. Our filings are also available in hard copy, free of charge, by contacting our Investor Relations office.

The public may read and copy any materials we file with the SEC at its Public Reference Room at 100 F Street, NE, Washington, DC 20549. Information on the operation of the Public Reference Room may be obtained by calling the SEC at 1-800-SEC-0330. The SEC also maintains a website (www.sec.gov) that contains reports, proxy and information statements and other information regarding issuers that file electronically with the SEC.

Additionally, we make available free of charge on our website:

- our Code of Business Conduct and Code of Ethics for Senior Financial Officers;
- our Corporate Governance Principles; and
- the charters of our Audit and Finance Committee, Compensation Committee, Corporate Governance and Nominating Committee and Health, Environmental, Safety and Corporate Responsibility Committee.

Item 1A. Risk Factors

We are subject to various risks and uncertainties in the course of our business. The following summarizes significant risks and uncertainties that may adversely affect our business, financial condition or results of operations. When considering an investment in our securities, you should carefully consider the risk factors included below as well as those matters referenced in the foregoing pages under "Disclosures Regarding Forward-Looking Statements" and other information included and incorporated by reference into this Annual Report on Form 10-K.

The substantial decline in crude oil and condensate, NGLs, natural gas and synthetic crude oil prices since 2014 has reduced our operating results and cash flows and, regardless of the recent increase in prices, could still adversely impact our future rate of growth and the carrying value of our assets.

Prices for crude oil and condensate, NGLs, natural gas and synthetic crude oil fluctuate widely. Our revenues, operating results and future rate of growth are highly dependent on the prices we receive for our crude oil and condensate, NGLs, natural gas and synthetic crude oil. Historically, the markets for crude oil and condensate, NGLs, natural gas and synthetic crude oil have been volatile and may continue to be volatile in the future. Although, prices for WTI and Brent crude oil, Henry Hub natural gas and natural gas liquids have increased in the last several months, prices are still significantly below their highs from 2014. Many of the factors influencing prices of crude oil and condensate, NGLs, natural gas and synthetic crude oil are beyond our control. These factors include:

- worldwide and domestic supplies of and demand for crude oil and condensate, NGLs, natural gas and synthetic crude oil;
- the cost of exploring for, developing and producing crude oil and condensate, NGLs, natural gas and synthetic crude oil;
- the ability of the members of OPEC and certain non-OPEC members, such as Russia, to agree to and maintain production controls;
- the production levels of non-OPEC countries, including production levels in the shale plays in the United States;
- the level of drilling, completion and production activities by other exploration and production companies, and variability therein, in response to market conditions;
- political instability or armed conflict in oil and natural gas producing regions;
- changes in weather patterns and climate;
- natural disasters such as hurricanes and tornadoes;
- the price and availability of alternative and competing forms of energy;
- the effect of conservation efforts;
- epidemics or pandemics;
- technological advances affecting energy consumption and energy supply;
- domestic and foreign governmental regulations and taxes; and
- general economic conditions worldwide.

The long-term effects of these and other factors on the prices of crude oil and condensate, NGLs, natural gas and synthetic crude oil are uncertain. Historical declines in commodity prices have adversely affected our business by:

- reducing the amount of crude oil and condensate, NGLs, natural gas and synthetic crude oil that we can produce economically;
- reducing our revenues, operating income and cash flows;
- causing us to reduce our capital expenditures, and delay or postpone some of our capital projects;
- requiring us to impair the carrying value of our assets;
- reducing the standardized measure of discounted future net cash flows relating to crude oil and condensate, NGLs, natural gas and synthetic crude oil; and
- increasing the costs of obtaining capital, such as equity and short- and long-term debt.

Future decreases in prices could have similar adverse effects on our business.

If crude oil and condensate, NGLs, natural gas and synthetic crude oil prices remain substantially below their 2014 highs or fall below current levels, it could adversely affect the abilities of our counterparties to perform their obligations to us, including abandonment obligations, which could negatively impact our financial results.

We often enter into arrangements to conduct certain business operations, such as oil and gas exploration and production, oil sands mining or transportation of crude oil and condensate, NGLs, natural gas and synthetic crude oil, with partners and other counterparties in order to share risks associated with those operations. In addition, we market our products to a variety of purchasers. If commodity prices remain at or fall below current levels, some of our counterparties may experience liquidity problems and may not be able to meet their financial and other obligations, including abandonment obligations, to us. The inability of our joint venture partners to fund their portion of the costs under our joint venture agreements, or the nonperformance by purchasers, contractors or other counterparties of their obligations to us, could negatively impact our operating results and cash flows.

Estimates of crude oil and condensate, NGLs, natural gas and synthetic crude oil reserves depend on many factors and assumptions, including various assumptions that are based on conditions in existence as of the dates of the estimates. Any material changes in those conditions or other factors affecting those assumptions could impair the quantity and value of our reserves.

The proved reserve information included in this Annual Report on Form 10-K has been derived from engineering and geoscience estimates. Estimates of crude oil and condensate, NGLs, natural gas and synthetic crude oil reserves were prepared, in accordance with SEC regulations, by our in-house teams of reservoir engineers and geoscience professionals and were reviewed and approved by our Corporate Reserves Group. Prior to 2016, the synthetic crude oil reserves estimates were prepared by GLJ, a third-party consulting firm experienced in working with oil sands. Reserves were valued based on SEC pricing for the periods ended December 31, 2016, 2015 and 2014, as well as other conditions in existence at those dates. The table below provides the 2016 SEC pricing for certain benchmark prices:

| | SEC Pricing 2016 |
|--|-------------------------|
| WTI Crude oil (<i>per bbl</i>) | \$ 42.75 |
| Henry Hub natural gas (<i>per mmbtu</i>) | \$ 2.49 |
| Brent crude oil (<i>per bbl</i>) | \$ 43.53 |
| Mont Belvieu NGLs (<i>per bbl</i>) | \$ 15.89 |

If commodity prices were to significantly drop below average prices used to estimate 2016 proved reserves (see table above), we would expect price related reserve revisions that could have a material impact on proved reserve volumes and the present value of our proved reserves. In this scenario, our OSM proved reserves represent the largest risk to be reclassified to non-proved reserves or resource category. Future reserve revisions could also result from changes in capital funding, drilling plans and governmental regulation, among other things.

Reserve estimation is a subjective process that involves estimating volumes to be recovered from underground accumulations of crude oil and condensate, NGLs, natural gas and bitumen that cannot be directly measured (bitumen is mined and then upgraded into synthetic crude oil.) Estimates of economically producible reserves and of future net cash flows depend on a number of variable factors and assumptions, including:

- location, size and shape of the accumulation as well as fluid, rock and producing characteristics of the accumulation;
- historical production from the area, compared with production from other analogous producing areas;
- volumes of bitumen in-place and various factors affecting the recoverability of bitumen and its conversion into synthetic crude oil such as historical upgrader performance;
- the assumed impacts of regulation by governmental agencies;
- assumptions concerning future operating costs, taxes, development costs and workover and repair costs; and
- industry economic conditions, levels of cash flows from operations and other operating considerations.

As a result, different petroleum engineers and geoscientists, each using industry-accepted geologic and engineering practices and scientific methods, may produce different estimates of proved reserves and future net cash flows based on the same available data. Because of the subjective nature of such reserve estimates, each of the following items may differ materially from the estimated amounts:

- the amount and timing of production;

- the revenues and costs associated with that production; and
- the amount and timing of future development expenditures.

If we are unsuccessful in acquiring or finding additional reserves, our future crude oil and condensate, NGLs, natural gas and synthetic crude oil production would decline, thereby reducing our cash flows and results of operations and impairing our financial condition.

The rate of production from crude oil and condensate, NGLs, natural gas and synthetic crude oil properties generally declines as reserves are depleted. Except to the extent we acquire interests in additional properties containing proved reserves, conduct successful exploration and development activities or, through engineering studies, optimize production performance or identify additional reservoirs not currently producing or secondary recovery reserves, our proved reserves will decline materially as crude oil and condensate, NGLs, natural gas and synthetic crude oil are produced. Accordingly, to the extent we are not successful in replacing the crude oil and condensate, NGLs, natural gas and synthetic crude oil we produce, our future revenues will decline. Creating and maintaining an inventory of prospects for future production depends on many factors, including:

- obtaining rights to explore for, develop and produce crude oil and condensate, NGLs, natural gas and synthetic crude oil in promising areas;
- drilling success;
- the ability to complete long lead-time, capital-intensive projects timely and cost effectively;
- the ability to find or acquire additional proved reserves at acceptable costs; and
- the ability to fund such activity.

Future exploration and drilling results are uncertain and involve substantial costs.

Drilling for crude oil and condensate, NGLs and natural gas involves numerous risks, including the risk that we may not encounter commercially productive reservoirs. The costs of drilling, completing and operating wells are often uncertain, and drilling operations may be curtailed, delayed or canceled as a result of a variety of factors, including:

- unexpected drilling conditions;
- title problems;
- pressure or irregularities in formations;
- equipment failures or accidents;
- inflation in exploration and drilling costs;
- fires, explosions, blowouts or surface cratering;
- lack of access to pipelines or other transportation methods; and
- shortages or delays in the availability of services or delivery of equipment.

If we are unable to complete capital projects at their expected costs and in a timely manner, or if the market conditions assumed in our project economics deteriorate, our business, financial condition, results of operations and cash flows could be materially and adversely affected.

Delays or cost increases related to capital spending programs involving engineering, procurement and construction of facilities (including improvements and repairs to our existing facilities) could adversely affect our ability to achieve forecasted internal rates of return and operating results. Delays in making required changes or upgrades to our facilities could subject us to fines or penalties as well as affect our ability to supply certain products we produce. Such delays or cost increases may arise as a result of unpredictable factors, many of which are beyond our control, including:

- denial of or delay in receiving requisite regulatory approvals and/or permits;
- unplanned increases in the cost of construction materials or labor;
- disruptions in transportation of components or construction materials;
- increased costs or operational delays resulting from shortages of water;
- adverse weather conditions, natural disasters or other events (such as equipment malfunctions, explosions, fires or spills) affecting our facilities, or those of vendors or suppliers;

- shortages of sufficiently skilled labor, or labor disagreements resulting in unplanned work stoppages;
- market-related increases in a project's debt or equity financing costs; and
- nonperformance by, or disputes with, vendors, suppliers, contractors or subcontractors.

Any one or more of these factors could have a significant impact on our capital projects.

Our offshore operations involve special risks that could negatively impact us.

Offshore exploration and development operations present technological challenges and operating risks because of the marine environment. Activities in deepwater areas may pose incrementally greater risks because of water depths that limit intervention capability and the physical distance to oilfield service infrastructure and service providers. Environmental remediation and other costs resulting from spills or releases may result in substantial liabilities.

We may incur substantial capital expenditures and operating costs as a result of compliance with, and/or changes in environmental, health, safety and security laws and regulations, and, as a result, our business, financial condition, results of operations and cash flows could be materially and adversely affected.

Our businesses are subject to numerous laws, regulations and other requirements relating to the protection of the environment, including those relating to the discharge of materials into the environment such as the venting or flaring of natural gas, waste management, pollution prevention, greenhouse gas emissions and the protection of endangered species as well as laws, regulations, and other requirements relating to public and employee safety and health and to facility security. We have incurred and may continue to incur capital, operating and maintenance, and remediation expenditures as a result of these laws, regulations, and other requirements. To the extent these expenditures, as with all costs, are not ultimately reflected in the prices of our products, our operating results will be adversely affected. The specific impact of these laws, regulations, and other requirements may vary depending on a number of factors, including the age and location of operating facilities and production processes. We may also be required to make material expenditures to modify operations, install pollution control equipment, perform site clean-ups or curtail operations that could materially and adversely affect our business, financial condition, results of operations and cash flows. We may become subject to liabilities that we currently do not anticipate in connection with new, amended or more stringent requirements, stricter interpretations of existing requirements or the future discovery of contamination. In addition, any failure by us to comply with existing or future laws, regulations, and other requirements could result in civil penalties or criminal fines and other enforcement actions against us.

We believe it is likely that the scientific and political attention to issues concerning the extent, causes of and responsibility for climate change will continue, with the potential for further regulations that could affect our operations. Our operations result in greenhouse gas emissions. Currently, various legislative or regulatory measures to address greenhouse gas emissions (including carbon dioxide, methane and nitrous oxides) are in various phases of review, discussion or implementation in countries where we operate, including the U.S., Canada, and the European Union. Internationally, the United Nations Framework Convention on Climate Change finalized an agreement among 195 nations at the 21st Conference of the Parties in Paris with an overarching goal of preventing global temperatures from rising more than 2 degrees Celsius. The agreement includes provisions that every country take some action to lower emissions, but there is no legal requirement for how or by what amount emissions should be lowered. The EPA has also finalized regulations targeting new sources of methane emissions from the oil and gas industry, and has issued requests for information on existing sources. Finalization of new legislation, regulations or international agreements in the future could result in increased costs to operate and maintain our facilities, capital expenditures to install new emission controls at our facilities, and costs to administer and manage any potential greenhouse gas emissions or carbon trading or tax programs. These costs and capital expenditures could be material. Although uncertain, these developments could increase our costs, reduce the demand for crude oil and condensate, NGLs, natural gas and synthetic crude oil, and create delays in our obtaining air pollution permits for new or modified facilities.

The potential adoption of federal, state and local legislative and regulatory initiatives related to hydraulic fracturing could result in increased compliance costs, operating restrictions or delays in the completion of oil and gas wells.

Hydraulic fracturing is a commonly used process that involves injecting water, sand, and small volumes of chemicals into the wellbore to fracture the hydrocarbon-bearing rock thousands of feet below the surface to facilitate higher flow of hydrocarbons into the wellbore. Our business uses this technique extensively throughout our U.S. operations. Hydraulic fracturing has been regulated at the state and local level through permitting and compliance requirements. Federal, state and local-level laws or regulations targeting various aspects of the hydraulic fracturing process are being considered, or have been proposed or implemented. For example, the U.S. Congress has considered legislation that would require additional regulation affecting the hydraulic fracturing process, and may be expected to do so in future legislative sessions. Further, various state and local-level initiatives in regions with substantial shale resources have been or may be proposed or implemented to further regulate hydraulic fracturing practices, limit water withdrawals and water use, require disclosure of fracturing fluid constituents, restrict which additives may be used, or implement temporary or permanent bans on hydraulic fracturing. In 2015

the Bureau of Land Management issued a rule governing certain hydraulic fracturing practices on lands within their jurisdiction. While this rule has been stayed nationwide by court ruling, further findings by the court could result in additional changes to this new rule.

Increased regulation and attention given to the hydraulic fracturing process could lead to greater opposition, including litigation, to oil and gas activities using hydraulic fracturing techniques. Additional legislation or regulation could also lead to operational delays or increased operating costs in the production of crude oil and condensate, NGLs and natural gas, including from the shale plays, or could make it more difficult to perform hydraulic fracturing. The adoption of any federal, state or local laws or the implementation of regulations regarding hydraulic fracturing could potentially cause a decrease in the completion of new oil and gas wells and increased compliance costs which could increase costs of our operations and cause considerable delays in acquiring regulatory approvals to drill and complete wells.

The potential adoption of federal, state and local legislative and regulatory initiatives intended to address potential induced seismic activity in the areas in which we operate could result in increased compliance costs, operating restrictions or delays in the completion of oil and gas wells.

State and federal regulatory agencies recently have focused on a possible connection between the operation of injection wells used for oil and gas waste disposal and seismic activity. When caused by human activity, such events are called induced seismicity. Marathon does not currently own or operate water disposal wells in the current areas of interest but does contract for services that regularly inject produced water into underground injection wells. Separate and apart from the referenced potential connection between injection wells and seismicity, concerns have been raised that hydraulic fracturing activities may be correlated to anomalous seismic events. Marathon does use hydraulic fracturing techniques throughout its U.S. operations.

While the scientific community and regulatory agencies at all levels are continuing to study the possible linkage between oil and gas activity and induced seismicity, some state regulatory agencies have modified their regulations or guidance to mitigate potential causes of induced seismicity. For example, Oklahoma has taken numerous regulatory actions in response to concerns related to the operation of produced water disposal wells and induced seismicity, and has issued guidelines to operators in certain areas of the State curtailing injection of produced water due to seismic concerns. Marathon does not currently own or operate injection wells in these areas. Further, Oklahoma recently issued guidelines to operators for management of anomalous seismicity that may be related to hydraulic fracturing activities in the SCOOP/STACK area. In addition, a number of lawsuits have been filed in Oklahoma alleging damage from seismicity relating to disposal well operations. Marathon has not been named in any of those lawsuits.

Increased seismicity in Oklahoma or other areas could result in additional regulation and restrictions on our operations and could lead to operational delays or increased operating costs. Additional regulation and attention given to induced seismicity could also lead to greater opposition, including litigation, to oil and gas activities.

Worldwide political and economic developments and changes in law could adversely affect our operations and materially reduce our profitability and cash flows.

Local political and economic factors in global markets could have a material adverse effect on us. A total of 45% of our crude oil and condensate, NGLs, natural gas and synthetic crude oil volumes related to continuing operations in 2016 was derived from production outside the U.S. and 55% of our proved crude oil and condensate, NGLs, natural gas and synthetic crude oil reserves as of December 31, 2016 were located outside the U.S. All of our synthetic crude oil production and proved reserves are located in Canada. We are, therefore, subject to the political, geographic and economic risks and possible terrorist activities or other armed conflict attendant to doing business within or outside of the U.S. There are many risks associated with operations in countries such as E.G., Gabon, the Kurdistan Region of Iraq and Libya, and in global markets including:

- changes in governmental policies relating to crude oil and condensate, NGLs, natural gas or synthetic crude oil and taxation;
- other political, economic or diplomatic developments and international monetary fluctuations;
- political and economic instability, war, acts of terrorism, armed conflict and civil disturbances;
- the possibility that a government may seize our property with or without compensation, may attempt to renegotiate or revoke existing contractual arrangements or may impose additional taxes or royalty burdens; and
- fluctuating currency values, hard currency shortages and currency controls.

For the past several years, there have been varying degrees of political instability and public protests, including demonstrations which have been marked by violence and numerous incidences of terrorist acts, within some countries in the Middle East, including Bahrain, Egypt, Iraq, Libya, Syria, Tunisia and Yemen. Some political regimes in these countries are threatened or have changed as a result of such unrest.

If such unrest continues to spread, conflicts could result in civil wars, regional conflicts, and regime changes resulting in governments that are hostile to the U.S. These may have the following results, among others:

- volatility in global crude oil prices which could negatively impact the global economy, resulting in slower economic growth rates and reduced demand for our products;
- negative impact on the world crude oil supply if transportation avenues are disrupted;
- security concerns leading to the prolonged evacuation of our personnel;
- damage to, or the inability to access, production facilities or other operating assets; and
- inability of our service and equipment providers to deliver items necessary for us to conduct our operations.

Continued hostilities in the Middle East and the occurrence or threat of future terrorist attacks, or other armed conflict, could adversely affect the economies of the U.S. and other developed countries. A lower level of economic activity could result in a decline in energy consumption, which could cause our revenues and margins to decline and limit our future growth prospects. These risks could lead to increased volatility in prices for crude oil and condensate, NGLs, natural gas and synthetic crude oil. In addition, these risks could increase instability in the financial and insurance markets and make it more difficult for us to access capital and to obtain the insurance coverage that we consider adequate.

Actions of governments through tax legislation and other changes in law, executive order and commercial restrictions could reduce our operating profitability, both in the U.S. and abroad. The U.S. government can prevent or restrict us from doing business in foreign countries. These restrictions and those of foreign governments have in the past limited our ability to operate in, or gain access to, opportunities in various countries and will continue to do so in the future. Changes in law could also adversely affect our results, including new regulations resulting in higher costs to transport our production by pipeline, rail car, truck or vessel or the adoption of government payment transparency regulations that could require us to disclose competitively sensitive commercial information or that could cause us to violate the non-disclosure laws of other countries.

Our level of indebtedness may limit our liquidity and financial flexibility.

As of December 31, 2016, our total debt was \$7.3 billion, of which \$686 million is due within 12 months. Our indebtedness could have important consequences to our business, including, but not limited to, the following:

- we may be more vulnerable to general adverse economic and industry conditions;
- a portion of our cash flows from operating activities must be used to service our indebtedness and is not available for other purposes;
- our flexibility in planning for, or reacting to, changes in our industry may be limited;
- a financial covenant in our Credit Agreement stipulates that our total debt to capitalization ratio will not exceed 65% as of the last day of any fiscal quarter, and if exceeded, may make additional borrowings more expensive and affect our ability to plan for and react to changes in the economy and our industry;
- we may be at a competitive disadvantage as compared to similar companies that have less debt; and
- additional financing in the future for working capital, capital expenditures, acquisitions or development activities, general corporate or other purposes may have higher costs and more restrictive covenants.

We may incur additional debt in order to fund our capital expenditures, acquisitions or development activities, or for general corporate or other purposes. A higher level of indebtedness increases the risk that our financial flexibility may deteriorate. Our ability to meet our debt obligations and service our debt depends on future performance. General economic conditions, crude oil and condensate, NGLs, natural gas and synthetic crude oil prices, and financial, business and other factors will affect our operations and our future performance. Many of these factors are beyond our control and we may not be able to generate sufficient cash flow to pay the interest on our debt, and future working capital, borrowings and equity financing may not be available to pay or refinance such debt. See Item 8. Financial Statements and Supplementary Data – Note 17 to the consolidated financial statements for a discussion of debt obligations.

A further downgrade in our credit rating could negatively impact our cost of and ability to access capital, which could adversely affect our business.

We receive debt ratings from the major credit rating agencies in the United States. Due to the decline in crude oil and U.S. natural gas prices in recent years, credit rating agencies reviewed companies in the energy industry, including us. In the first quarter of 2016, our corporate credit rating was downgraded by Standard & Poor's Global Ratings to BBB- (stable) from BBB (stable), by Fitch Ratings to BBB (negative) from BBB+ (stable) and by Moody's Investor Services, Inc. to Ba1 (negative) from Baa1 (stable). On October 11, 2016 Moody's subsequently revised their outlook of our corporate credit rating to stable from negative. The credit rating process is contingent upon a number of factors, many of which are beyond our control. A further downgrade of our credit ratings could negatively impact our cost of capital and our ability to access the capital markets, increase the interest rate and fees we pay on our revolving credit facility, and may limit or reduce credit lines with our bank counterparties. We could also be required to post letters of credit or other forms of collateral for certain contractual obligations, which could increase our costs and decrease our liquidity or letter of credit capacity under our unsecured revolving credit facility. Limitations on our ability to access capital could adversely impact the level of our capital spending program, our ability to manage our debt maturities, or our flexibility to react to changing economic and business conditions.

Our commodity price risk management activities may prevent us from fully benefiting from commodity price increases and may expose us to other risks, including counterparty risk.

Global commodity prices are volatile. In order to mitigate commodity price volatility and increase the predictability of cash flows related to the marketing of our crude oil and natural gas, we, from time to time, enter into crude oil and natural gas hedging arrangements with respect to a portion of our expected production. While hedging arrangements are intended to mitigate commodity price volatility, we may be prevented from fully realizing the benefits of price increases above the price levels of the derivative instruments used to manage price risk. In addition, our hedging arrangements may expose us to the risk of financial loss in certain circumstances, including instances in which the counterparties to our hedging contracts fail to perform under the contracts. See Item 7A. Quantitative and Qualitative Disclosures about Market Risk.

Our business could be negatively impacted by cyber-attacks targeting our computer and telecommunications systems and infrastructure.

Our business, like other companies in the oil and gas industry, has become increasingly dependent on digital technologies. Such technologies are integrated into our business operations and used as a part of our crude oil and condensate, NGLs, natural gas and synthetic crude oil production and distribution systems in the U.S. and abroad, including those systems used to transport production to market. Use of the internet and other public networks for communications, services, and storage, including "cloud" computing, exposes users (including our business) to cybersecurity risks. While our information systems and related infrastructure experienced attempted and actual minor breaches of our cybersecurity in the past, we have not suffered any losses or breaches which had a material effect on our business, operations or reputation relating to such attacks; however, there is no assurance that we will not suffer such losses or breaches in the future. As cyber-attacks continue to evolve, we may be required to expend significant additional resources to continue to modify or enhance our protective measures or to investigate and remediate any information systems and related infrastructure security vulnerabilities.

Our operations may be adversely affected by pipeline, rail and other transportation capacity constraints.

The marketability of our production depends in part on the availability, proximity, and capacity of pipeline facilities, rail cars, trucks and vessels. If any pipelines, rail cars, trucks or vessels become unavailable, we would, to the extent possible, be required to find a suitable alternative to transport our crude oil and condensate, NGLs, natural gas and synthetic crude oil, which could increase the costs and/or reduce the revenues we might obtain from the sale of our production. Both the cost and availability of pipelines, rail cars, trucks, or vessels to transport our crude oil could be adversely impacted by new and expected state or federal regulations relating to transportation of crude oil.

If we acquire crude oil and natural gas properties, our failure to fully identify existing and potential problems, to accurately estimate reserves, production rates or costs, or to effectively integrate the acquired properties into our operations could materially and adversely affect our business, financial condition and results of operations.

We typically seek the acquisition of crude oil and condensate, NGLs, natural gas and synthetic crude oil properties. Although we perform reviews of properties to be acquired in a manner that we believe is diligent and consistent with industry practices, reviews of records and properties may not necessarily reveal existing or potential problems, nor may they permit us to become sufficiently familiar with the properties in order to fully assess possible deficiencies and potential problems. Even when problems with a property are identified, we often assume environmental and other risks and liabilities in connection with acquired properties pursuant to the acquisition agreements. Moreover, there are numerous uncertainties inherent in estimating quantities of crude oil and condensate, NGLs, natural gas and synthetic crude oil reserves (as previously discussed), actual future production rates and associated costs with respect to acquired properties. Actual reserves, production rates and costs may vary substantially from those assumed in our estimates. In addition, an acquisition may have a material and adverse effect on our business and results of operations, particularly during the periods in which the operations of the acquired

properties are being integrated into our ongoing operations or if we are unable to effectively integrate the acquired properties into our ongoing operations.

We operate in a highly competitive industry, and many of our competitors are larger and have available resources in excess of our own.

The oil and gas industry is highly competitive, and many competitors, including major integrated and independent oil and gas companies, as well as national oil companies, are larger and have substantially greater resources at their disposal than we do. We compete with these companies for the acquisition of oil and natural gas leases and other properties. We also compete with these companies for equipment and personnel, including petroleum engineers, geologists, geophysicists and other specialists, required to develop and operate those properties and in the marketing of crude oil and condensate, NGLs, natural gas and synthetic crude oil to end-users. Such competition can significantly increase costs and affect the availability of resources, which could provide our larger competitors a competitive advantage when acquiring equipment, leases and other properties. They may also be able to use their greater resources to attract and retain experienced personnel.

Many of our major projects and operations are conducted with partners, which may decrease our ability to manage risk.

We often enter into arrangements to conduct certain business operations, such as oil and gas exploration and production, or oil sands mining, with partners in order to share risks associated with those operations. However, these arrangements also may decrease our ability to manage risks and costs, particularly where we are not the operator. We could have limited influence over and control of the behaviors and performance of these operations. In addition, misconduct, fraud, noncompliance with applicable laws and regulations or improper activities by or on behalf of one or more of our partners could have a significant negative impact on our business and reputation.

Our operations are subject to business interruptions and casualty losses. We do not insure against all potential losses and therefore we could be seriously harmed by unexpected liabilities and increased costs.

Our North America E&P and International E&P operations are subject to unplanned occurrences, including blowouts, explosions, fires, loss of well control, spills, hurricanes and other adverse weather, tsunamis, earthquakes, volcanic eruptions or nuclear or other disasters, labor disputes and accidents. Our OSM operations are subject to business interruptions due to breakdown or failure of equipment or processes and unplanned events such as fires, earthquakes, explosions or other interruptions. These same risks can be applied to the third-parties which transport our products from our facilities. A prolonged disruption in the ability of any pipelines, rail cars, trucks, or vessels to transport our production could contribute to a business interruption or increase costs.

Our operations are also subject to the additional hazards of pollution, releases of toxic gas and other environmental hazards and risks. These hazards could result in serious personal injury or loss of human life, significant damage to property and equipment, environmental pollution, impairment of operations and substantial losses to us. Various hazards have adversely affected us in the past, and damages resulting from a catastrophic occurrence in the future involving us or any of our assets or operations may result in our being named as a defendant in one or more lawsuits asserting potentially large claims or in our being assessed potentially substantial fines by governmental authorities. We maintain insurance against many, but not all, potential losses or liabilities arising from operating hazards in amounts that we believe to be prudent. Uninsured losses and liabilities arising from operating hazards could reduce the funds available to us for capital, exploration and investment spending and could have a material adverse effect on our business, financial condition, results of operations and cash flows. Historically, we have maintained insurance coverage for physical damage and resulting business interruption to our major onshore and offshore facilities, with significant self-insured retentions. In the future, we may not be able to maintain or obtain insurance of the type and amount we desire at reasonable rates. As a result of market conditions, premiums and deductibles for our insurance policies will change over time and could escalate. In some instances, certain insurance could become unavailable or available only for reduced amounts of coverage. For example, due to historical hurricane activity, the availability of insurance coverage for windstorms has changed and, in some instances, it is uneconomical. As a result, our exposure to losses from future windstorm activity has increased.

Litigation by private plaintiffs or government officials could adversely affect our performance.

We currently are defending litigation and anticipate that we will be required to defend new litigation in the future. The subject matter of such litigation may include releases of hazardous substances from our facilities, privacy laws, contract disputes, royalty disputes or any other laws or regulations that apply to our operations. In some cases the plaintiff or plaintiffs seek alleged damages involving large classes of potential litigants, and may allege damages relating to extended periods of time or other alleged facts and circumstances. If we are not able to successfully defend such claims, they may result in substantial liability. We do not have insurance covering all of these potential liabilities. In addition to substantial liability, litigation may also seek injunctive relief which could have an adverse effect on our future operations.

In connection with our separation from MPC, MPC agreed to indemnify us for certain liabilities. However, there can be no assurance that the indemnity will be sufficient to protect us against the full amount of such liabilities, or that MPC's ability to satisfy its indemnification obligations will not be impaired in the future.

Pursuant to the Separation and Distribution Agreement and the Tax Sharing Agreement we entered into with MPC in connection with the spin-off, MPC agreed to indemnify us for certain liabilities. However, third parties could seek to hold us responsible for any of the liabilities that MPC agreed to retain or assume, and there can be no assurance that the indemnification from MPC will be sufficient to protect us against the full amount of such liabilities, or that MPC will be able to fully satisfy its indemnification obligations. In addition, even if we ultimately succeed in recovering from MPC any amounts for which we are held liable, we may be temporarily required to bear these losses ourselves.

The spin-off could result in substantial tax liability.

We obtained a private letter ruling from the IRS substantially to the effect that the distribution of shares of MPC common stock in the spin-off qualified as tax free to MPC, us and our stockholders for U.S. federal income tax purposes under Sections 355 and 368 and related provisions of the U.S. Internal Revenue Code of 1986, as amended (the "Code"). If the factual assumptions or representations made in the request for the private letter ruling prove to have been inaccurate or incomplete in any material respect, then we will not be able to rely on the ruling. Furthermore, the IRS does not rule on whether a distribution such as the spin-off satisfies certain requirements necessary to obtain tax-free treatment under Section 355 of the Code. Rather, the private letter ruling was based on representations by us that those requirements were satisfied, and any inaccuracy in those representations could invalidate the ruling. In connection with the spin-off, we also obtained an opinion of outside counsel, substantially to the effect that, the distribution of shares of MPC common stock in the spin-off qualified as tax free to MPC, us and our stockholders for U.S. federal income tax purposes under Sections 355 and 368 and related provisions of the Code. The opinion relied on, among other things, the continuing validity of the private letter ruling and various assumptions and representations as to factual matters made by MPC and us which, if inaccurate or incomplete in any material respect, would jeopardize the conclusions reached by such counsel in its opinion. The opinion is not binding on the IRS or the courts, and there can be no assurance that the IRS or the courts would not challenge the conclusions stated in the opinion or that any such challenge would not prevail.

If, notwithstanding receipt of the private letter ruling and opinion of counsel, the spin-off were determined not to qualify under Section 355 of the Code, each U.S. holder of our common stock who received shares of MPC common stock in the spin-off would generally be treated as receiving a taxable distribution of property in an amount equal to the fair market value of the shares of MPC common stock received. That distribution would be taxable to each such stockholder as a dividend to the extent of our accumulated earnings and profits as of the effective date of the spin-off. For each such stockholder, any amount that exceeded those earnings and profits would be treated first as a non-taxable return of capital to the extent of such stockholder's tax basis in its shares of our common stock with any remaining amount being taxed as a capital gain. We would be subject to tax as if we had sold all the outstanding shares of MPC common stock in a taxable sale for their fair market value and would recognize taxable gain in an amount equal to the excess of the fair market value of such shares over our tax basis in such shares.

Under the terms of the Tax Sharing Agreement we entered into with MPC in connection with the spin-off, MPC is generally responsible for any taxes imposed on MPC or us and our subsidiaries in the event that the spin-off and/or certain related transactions were to fail to qualify for tax-free treatment as a result of actions taken, or breaches of representations and warranties made in the Tax Sharing Agreement, by MPC or any of its affiliates. However, if the spin-off and/or certain related transactions were to fail to qualify for tax-free treatment because of actions or failures to act by us or any of our affiliates, we would be responsible for all such taxes.

We may issue preferred stock whose terms could dilute the voting power or reduce the value of Marathon Oil common stock.

Our restated certificate of incorporation authorizes us to issue, without the approval of our stockholders, one or more classes or series of preferred stock having such preferences, powers and relative, participating, optional and other rights, including preferences over Marathon Oil common stock respecting dividends and distributions, as our Board of Directors generally may determine. The terms of one or more classes or series of preferred stock could dilute the voting power or reduce the value of Marathon Oil common stock. For example, we could grant holders of preferred stock the right to elect some number of our directors in all events or on the happening of specified events or the right to veto specified transactions. Similarly, the repurchase or redemption rights or liquidation preferences we could assign to holders of preferred stock could affect the residual value of the common stock.

Item 1B. Unresolved Staff Comments

None.

Item 2. Properties

The location and general character of our principal crude oil and condensate, NGLs and natural gas properties, oil sands mining properties and facilities, and other important physical properties have been described by segment under Item 1. Business.

Estimated net proved crude oil and condensate, NGLs, natural gas and synthetic crude oil reserves are set forth in Item 8. Financial Statements and Supplementary Data – Supplementary Information on Oil and Gas Producing Activities – Estimated Quantities of Proved Oil and Gas Reserves. The basis for estimating these reserves is discussed in Item 1. Business – Reserves.

Item 3. Legal Proceedings

We are a defendant in a number of legal and administrative proceedings arising in the ordinary course of business, including, but not limited to, royalty claims, contract claims, tax disputes and environmental claims. While the ultimate outcome and impact to us cannot be predicted with certainty, we believe the resolution of these proceedings will not have a material adverse effect on our consolidated financial position, results of operations or cash flows.

Environmental Proceedings

The following is a summary of certain proceedings involving us that were pending or contemplated as of December 31, 2016 under federal, state and international environmental laws. Except as described herein, it is not possible to predict accurately the ultimate outcome of these matters; however, management's belief set forth in the first paragraph under Legal Proceedings above takes such matters into account.

In July 2015, we received a request for information from the EPA under Section 114 of the Clean Air Act regarding several tank batteries used in our Bakken operations. We executed a settlement agreement with the North Dakota Department of Health relating to this matter in the fourth quarter of 2016 that includes a base penalty of \$294,000 that will be reduced under the terms by mitigating corrective actions. We do not believe that any penalties or corrective action expenditures that may result from this matter will have a material adverse effect on our financial position, results of operation or cash flows.

In December 2016, we received a letter from the U.K. Department for Business, Energy and Industrial Strategy ("BEIS") notifying us that they intend to impose a fine of €630,906 for a self-disclosed underreporting of generated carbon dioxide ("CO₂") emissions. We made representations requesting a reduction in this proposed penalty on January 10, 2017. We do not believe that any penalties that may result from this matter will have a material adverse effect on our financial position, results of operation or cash flows.

As of December 31, 2016, we have sites across the country where remediation is being sought under environmental statutes, both federal and state, or where private parties are seeking remediation through discussions or litigation. Based on currently available information the accrued amount to address the clean-up and remediation costs connected with these sites is not material.

If our assumptions relating to these costs prove to be inaccurate, future expenditures may exceed our accrued amounts.

Item 4. Mine Safety Disclosures

Not applicable.

PART II

Item 5. Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities

The principal market on which Marathon Oil common stock is traded is the New York Stock Exchange ("NYSE"). As of January 31, 2017, there were 35,294 registered holders of Marathon Oil common stock.

The following table reflects high and low sales prices for Marathon Oil common stock and the related dividend per share by quarter for the past two years:

| <i>(Dollars per share)</i> | 2016 | | | 2015 | | |
|----------------------------|------------|-----------|-----------|------------|-----------|-----------|
| | High Price | Low Price | Dividends | High Price | Low Price | Dividends |
| First Quarter | \$12.82 | \$6.73 | \$0.05 | \$29.63 | \$25.47 | \$0.21 |
| Second Quarter | \$15.27 | \$10.53 | \$0.05 | \$31.19 | \$25.92 | \$0.21 |
| Third Quarter | \$16.80 | \$12.90 | \$0.05 | \$25.79 | \$14.04 | \$0.21 |
| Fourth Quarter | \$18.80 | \$12.78 | \$0.05 | \$20.18 | \$12.38 | \$0.05 |
| Full Year | \$18.80 | \$6.73 | \$0.20 | \$31.19 | \$12.38 | \$0.68 |

Dividends – Our Board of Directors intends to declare and pay dividends on Marathon Oil common stock based on our financial condition and results of operations, although it has no obligation under Delaware law or the Restated Certificate of Incorporation to do so. In determining our dividend policy, the Board will rely on our consolidated financial statements. Dividends on Marathon Oil common stock are limited to our legally available funds.

The following table provides information about purchases by Marathon Oil and its affiliated purchaser, during the quarter ended December 31, 2016, of equity securities that are registered by Marathon Oil pursuant to Section 12 of the Securities Exchange Act of 1934:

| Period | Total Number of Shares Purchased ^(a) | Average Price Paid per Share | Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs ^(b) | Approximate Dollar Value of Shares that May Yet Be Purchased Under the Plans or Programs ^(b) |
|---------------------|---|------------------------------------|--|---|
| 10/01/16 – 10/31/16 | 51,396 | \$15.96 | — | \$ 1,500,285,529 |
| 11/01/16 – 11/30/16 | 919 | \$13.20 | — | \$ 1,500,285,529 |
| 12/01/16 – 12/31/16 | — | — | — | \$ 1,500,285,529 |
| Total | 52,315 | \$15.91 | — | |

^(a) 52,315 shares of restricted stock were delivered by employees to Marathon Oil, upon vesting, to satisfy tax withholding requirements.

^(b) In January 2006, we announced a \$2.0 billion share repurchase program. Our Board of directors subsequently increased the authorization for repurchases under the program by \$500 million in January 2007, by \$500 million in May 2007, by \$2.0 billion in July 2007, and by \$1.2 billion in December 2013, for a total authorized amount of \$6.2 billion. The remaining share repurchase authorization as of December 31, 2016 is \$1.5 billion. No repurchases were made under the program in 2016.

Item 6. Selected Financial Data

| <i>(In millions, except per share data)</i> | Year Ended December 31, | | | | |
|---|-------------------------|-----------|-----------|-----------|-----------|
| | 2016 | 2015 | 2014 | 2013 | 2012 |
| Statement of Income Data ^{(a)(b)(c)} | | | | | |
| Revenues | \$ 4,031 | \$ 5,522 | \$ 10,846 | \$ 11,325 | \$ 11,966 |
| Income (loss) from continuing operations | (2,140) | (2,204) | 969 | 931 | 856 |
| Net income (loss) | (2,140) | (2,204) | 3,046 | 1,753 | 1,582 |
| Per Share Data ^{(a)(b)(c)} | | | | | |
| Basic: | | | | | |
| Income (loss) from continuing operations | \$ (2.61) | \$ (3.26) | \$ 1.42 | \$ 1.32 | \$ 1.21 |
| Net income (loss) | \$ (2.61) | \$ (3.26) | \$ 4.48 | \$ 2.49 | \$ 2.24 |
| Diluted: | | | | | |
| Income (loss) from continuing operations | \$ (2.61) | \$ (3.26) | \$ 1.42 | \$ 1.31 | \$ 1.21 |
| Net income (loss) | \$ (2.61) | \$ (3.26) | \$ 4.46 | \$ 2.47 | \$ 2.23 |
| Statement of Cash Flows Data ^(b) | | | | | |
| Additions to property, plant and equipment related to continuing operations | \$ 1,245 | \$ 3,476 | \$ 5,160 | \$ 4,443 | \$ 4,361 |
| Dividends paid | 162 | 460 | 543 | 508 | 480 |
| Dividends per share | \$0.20 | \$0.68 | \$0.80 | \$0.72 | \$0.68 |
| Balance Sheet Data at December 31 | | | | | |
| Total assets | \$ 31,094 | \$ 32,311 | \$ 35,983 | \$ 35,588 | \$ 35,269 |
| Total long-term debt, including capitalized leases | 6,589 | 7,276 | 5,295 | 6,362 | 6,475 |

^(a) Includes impairments to producing properties of \$67 million, \$412 million, \$132 million, \$96 million and \$371 million in 2016, 2015, 2014, 2013 and 2012 and impairments to unproved properties of \$195 million, \$964 million, \$306 million, \$572 million and \$227 million in 2016, 2015, 2014, 2013 and 2012 (see Item 8. Financial Statements and Supplementary Data – Note 13 to the consolidated financial statements). Includes a goodwill impairment of \$340 million in 2015 related to the N.A. E&P reporting unit. (see Item 8. Financial Statements and Supplementary Data – Note 14 to the consolidated financial statements).

^(b) We closed the sale of our Angola assets and our Norway business in 2014 (see Item 8. Financial Statements and Supplementary Data – Note 6 to the consolidated financial statements). The applicable periods have been recast to reflect as discontinued operations.

^(c) December 31, 2016 includes the increase of a valuation allowance on certain of our deferred tax assets for \$1,346 million (see Item 8. Financial Statements and Supplementary Data – Note 9 to the consolidated financial statements).

Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations

The following discussion and analysis of our financial condition and results of operations should be read in conjunction with the information under Item 8. Financial Statements and Supplementary Data and the other financial information found elsewhere in this Form 10-K. The following discussion includes forward-looking statements that involve certain risks and uncertainties. See "Disclosures Regarding Forward-Looking Statements" (immediately prior to Part I) and Item 1A. Risk Factors.

Each of our segments is organized and managed based upon both geographic location and the nature of the products and services it offers:

- North America E&P – explores for, produces and markets crude oil and condensate, NGLs and natural gas in North America;
- International E&P – explores for, produces and markets crude oil and condensate, NGLs and natural gas outside of North America and produces and markets products manufactured from natural gas, such as LNG and methanol, in E.G.; and
- Oil Sands Mining – mines, extracts and transports bitumen from oil sands deposits in Alberta, Canada, and upgrades the bitumen to produce and market synthetic crude oil and vacuum gas oil.

Executive Summary

During 2016 we continued our efforts on capital and operating cost management, simplifying and concentrating our portfolio, and maintaining balance sheet strength and flexibility. In 2016, we achieved \$1.3 billion of non-core asset sales which allowed us to be opportunistic with a high quality acquisition in Oklahoma's STACK play. As a result, we further simplified and concentrated our portfolio to the lower cost, higher margin assets in the U.S. resource plays. Looking ahead, our goal is to return to annual production growth for both the company and U.S. resource plays, within cash flows.

Our 2016 accomplishments are summarized below:

Relentless focus on costs

- Reduced 2016 Capital Program spend to \$1.1 billion, below \$1.4 billion original budget
- Reduced production expenses per boe in 2016
 - North America E&P - 19% reduction to \$5.96 per boe
 - International E&P - 16% reduction to \$5.05 per boe
 - Oil Sands Mining - 24% reduction to \$27.89 per boe
- Reduced average completed well costs in 2016 by 22% in the Oklahoma Resource Basins and 26% in Eagle Ford compared to 2015
- Decreased total general and administrative costs by 18% in 2016 compared to last year

Simplifying and concentrating portfolio

- Closed on the Oklahoma STACK acquisition of 61,000 net acres
- Concentrated asset base to lower cost, higher margin resource plays by closing on \$1.3 billion in non-core asset sales

Strengthened balance sheet

- Increased our liquidity to \$5.8 billion at December 31, 2016 compared to \$4.2 billion at December 31, 2015
 - Raised net \$1.2 billion from an equity offering in the first quarter of 2016
 - Expanded the capacity of the revolving credit facility from \$3.0 billion to \$3.3 billion in the first quarter of 2016
- Improved our cash-adjusted debt-to-capital ratio to 21% at December 31, 2016 compared to 25% at December 31, 2015

Profitable growth within cash flows

- Increased U.S. resource play rig count by 50 percent in fourth quarter of 2016, while remaining under budget, and positioning to resume sequential production growth in the resource plays in the first half of 2017

Our 2016 significant operational updates and financial results included the following:

Operational Updates

- Total company net sales volumes of 404 mboed in 2016
- We ended 2016 with 2,096 mmboe of proved reserves, with extension, discovery and other additions of 304 mmboe

- Increased net sales volumes by 40% in the Oklahoma Resource Basins as we increased activity on our STACK and SCOOP acreage
- Delivered basin-leading well results in the Bakken supported by enhanced completions and advantaged geology, while reducing production expense by approximately 30% year-over-year
- Achieved record drilling efficiency in the Eagle Ford and record low completed costs during 2016 while continuing to execute high intensity completions
- Completed the Alba B3 Compression project in E.G., extending plateau production and field life
- Resumed liftings in Libya in December 2016; Force Majeure lifted in September 2016
- Ended the year with 12 rigs operating in the U.S. resource plays

Financial results

- 2016 net loss of \$2.1 billion versus 2015 net loss of \$2.2 billion; included in the loss for 2016:
 - Non-cash charge related to a valuation allowance on our deferred tax assets of \$1.3 billion (see Item 8. Financial Statements and Supplementary Data – Note 9 to the consolidated financial statements)
 - Reduction in segment sales revenues of \$1.2 billion with a nearly even split between lower price realizations and decreased sales volumes
 - Non-cash charge of \$262 million for proved and unproved property impairments (See Item 8. Financial Statements and Supplementary Data - Note 13 to the consolidated financial statement for additional detail)
- Net cash provided by operating activities in 2016 was \$1.1 billion, compared to \$1.6 billion in 2015, reflecting the lower segment revenues

Outlook

Capital Program

Our \$2.2 billion 2017 Capital Program will have over 90% allocated to the higher return, lower cost U.S. resource plays. We intend to ramp up activity in Oklahoma as we progress our STACK and SCOOP acreage toward full field development, and in the Bakken where our enhanced completions recently achieved record results. Additionally, our Eagle Ford asset will continue to focus on driving capital efficiencies.

Our 2017 Capital Program is broken down by reportable operating segment in the table below:

| <i>(In millions)</i> | Capital Program |
|-----------------------|-----------------|
| North America E&P | \$ 2,107 |
| International E&P | 64 |
| Oil Sands Mining | 29 |
| Segment total | 2,200 |
| Corporate and other | 25 |
| Total Capital Program | \$ 2,225 |

North America E&P – Approximately \$2 billion of our 2017 Capital Program is allocated about one-third to each of our three core U.S. resource plays as follows:

Oklahoma Resource Basins - we expect to focus on STACK leasehold retention, STACK delineation and infill pilots in preparation for full field development. We plan to increase our Oklahoma rig count to average approximately 10 rigs in 2017, while bringing 90 to 100 gross operated wells to sales during the year. This includes four to five STACK infill pilots and two SCOOP infill pilots to sales, as well as testing additional secondary horizons.

Eagle Ford - we expect to maintain a six-rig drilling program and bring 155 to 170 gross operated wells to sales during 2017. With about two-thirds of the program focused in the high margin oil window, we plan to continue optimizing completion techniques with increased proppant and fluid loading, and average lateral lengths.

Bakken - we plan to focus on our highest return West and East Myrmidon areas where we completed several basin-leading wells in 2016. We will progress multiple enhanced completion trials as well as continue our focus on optimizing base production, while bringing 70 to 75 gross operated wells to sales during 2017. We expect to average approximately six drilling rigs in the Bakken in 2017.

International E&P, Oil Sands Mining, Corporate and other – Less than 10% of our Capital Program will be allocated to these segments for sustaining capital projects.

Operations

Our net sales volumes from continuing operations averaged 404 mboed, 438 mboed and 415 mboed for 2016, 2015 and 2014. Net sales volumes from continuing operations decreased by 8% to 404 mboed in 2016 relating to dispositions of certain non-core assets (23 mboed from Wyoming, West Texas, East Texas, North Louisiana and Gulf of Mexico) during the comparison period as well as lower completion activity in the U.S resource plays. As liftings from Libya were sporadic during this 3-year period, a more representative comparison is net sales volumes from continuing operations excluding Libya, which was 401 mboed, 438 mboed and 408 mboed for 2016, 2015 and 2014. The table below provides additional detail regarding net sales volumes by segment:

| Net Sales Volumes | 2016 | Increase (Decrease) | 2015 | Increase (Decrease) | 2014 |
|---|------------|------------------------|------------|------------------------|------------|
| North America E&P (<i>mboed</i>) | 223 | (17)% | 269 | 13 % | 238 |
| International E&P (<i>mboed</i>) | 122 | 5 % | 116 | (9)% | 127 |
| Oil Sands Mining (<i>mbbl/d</i>) ^(a) | 59 | 11 % | 53 | 6 % | 50 |
| Total Continuing Operations (<i>mboed</i>) | 404 | (8)% | 438 | 6 % | 415 |

^(a) Includes blendstocks.

North America E&P

The following tables provide additional detail regarding net sales volumes, sales mix and operational drilling activity:

| Net Sales Volumes | 2016 | Increase (Decrease) | 2015 | Increase (Decrease) | 2014 |
|--|------------|------------------------|------------|------------------------|------------|
| Oklahoma Resource Basins | 35 | 40% | 25 | 39% | 18 |
| Eagle Ford | 105 | (22)% | 134 | 20% | 112 |
| Bakken | 54 | (8)% | 59 | 16% | 51 |
| Other North America ^(a) | 29 | (43)% | 51 | (11)% | 57 |
| Total North America E&P (mboed) | 223 | (17)% | 269 | 13% | 238 |

^(a) Year ended December 31, 2016 decreases relating to assets sold were 23 mboed, primarily consisting of Wyoming, West Texas, East Texas, North Louisiana and certain Gulf of Mexico assets.

| Sales Mix - U.S. Resource Plays - 2016 | Oklahoma Resource Basins | Eagle Ford | Bakken | Total |
|--|--------------------------------|------------|--------|-------|
| Crude oil and condensate | 25% | 57% | 81% | 58% |
| Natural gas liquids | 26% | 21% | 11% | 19% |
| Natural gas | 49% | 22% | 8% | 23% |

| Drilling Activity - U.S. Resource Plays | 2016 | 2015 | 2014 |
|---|------|------|------|
| Gross Operated | | | |
| <i>Oklahoma Resource Basins:</i> | | | |
| Wells drilled to total depth | 33 | 20 | 19 |
| Wells brought to sales | 28 | 21 | 18 |
| <i>Eagle Ford:</i> | | | |
| Wells drilled to total depth | 168 | 251 | 360 |
| Wells brought to sales | 168 | 276 | 310 |
| <i>Bakken:</i> | | | |
| Wells drilled to total depth | 3 | 35 | 83 |
| Wells brought to sales | 13 | 56 | 69 |

In 2016, we continued to focus on our U.S. unconventional resource plays. We acquired 61,000 net surface acres in the STACK play in Oklahoma, delivered basin-leading well results in the Bakken and further improved returns in the Eagle Ford with cost reductions, efficiency gains and enhanced completions. North America E&P segment average net sales volumes in 2016 decreased 17% when compared to 2015 largely as a result of the aforementioned dispositions in Wyoming, East Texas, North Louisiana and Gulf of Mexico, as well as base declines due to reduced completion activity. This decrease was partially offset by increases due to the Oklahoma STACK acquisition in the second-half of 2016.

Oklahoma Resource Basins – During 2016 we brought 28 gross wells to sales, of which 20 were in the STACK Meramec, 6 were in the SCOOP Woodford and 2 were in the SCOOP Springer. We increased activity during the year from two to five rigs, and focused on protecting our valuable acreage through leasehold drilling, delineation activity, and enhancing well performance through enhanced completion designs. We also pursued technical advancement through data collection, analysis and participation in several infill spacing pilots.

In 2016, we drilled our first operated spacing pilot in the STACK Meramec and we expect those wells to come to sales in the first quarter of 2017. At year-end 2016, approximately 70% of our STACK leasehold was held by production and approximately 90% of our SCOOP acreage was held by production.

Eagle Ford - In 2016 we brought 168 gross wells to sales, of which 90 were in the Lower Eagle Ford, 53 were in the Upper Eagle Ford, and 25 were in the Austin Chalk. We continued efforts to utilize technology and drive efficiencies into the drilling process resulting in an average spud-to-TD of 7.9 days in 2016, compared to 10.6 days in 2015. Record low average completed well costs of \$3.9 million per well were achieved the fourth quarter of 2016 (down 20 percent from year-ago quarter), despite increasing proppant loading per lateral foot by more than 70 percent compared to fourth quarter 2015.

Bakken – In 2016 we brought 13 wells to sales, of which 7 were in the Middle Bakken formation and 6 were in the Three Forks formation. We realized well performance improvements through high intensity completions and targeted application of

diversion techniques. In 2016, Myrmidon wells were pumped with 6 to 18 million pounds of proppant with 40 to 50 stages per well. Since December, we have mobilized four rigs to Myrmidon to support the development program.

North America E&P segment average net sales volumes in 2015 increased 13% when compared to 2014. Net liquid hydrocarbon sales volumes increased 24 mbbld and net natural gas sales volumes increased 41 mmcf in 2015 primarily reflecting continued growth from our three core U.S. resource plays.

International E&P

The following table provides net sales volumes from continuing operations:

| Net Sales Volumes | 2016 | Increase (Decrease) | 2015 | Increase (Decrease) | 2014 |
|---|-------------|--------------------------------|-------------|--------------------------------|-------------|
| Equivalent Barrels (<i>mboed</i>) | | | | | |
| Equatorial Guinea | 102 | 5% | 97 | (7)% | 104 |
| United Kingdom ^(a) | 17 | (11)% | 19 | 19% | 16 |
| Libya | 3 | 100% | — | (100)% | 7 |
| Total International E&P (<i>mboed</i>) | 122 | 5% | 116 | (9)% | 127 |
| Net Sales Volumes of Equity Method Investees | | | | | |
| LNG (<i>mtd</i>) | 5,874 | —% | 5,884 | (10)% | 6,535 |
| Methanol (<i>mtd</i>) | 1,358 | 45% | 937 | (14)% | 1,092 |
| Condensate & LPG (<i>boed</i>) | 13,430 | 10% | 12,208 | (40)% | 20,506 |

^(a) Includes natural gas acquired for injection and subsequent resale of 5 mmcf, 8 mmcf and 6 mmcf for 2016, 2015, and 2014.

International E&P segment average net sales volumes in 2016 increased 5% when compared to 2015. Sales volumes in E.G. were higher due to the completion and start-up of the Alba field compression project, which extends the production plateau and field life. In the U.K., the sales volumes slightly decreased as a result of downtime in the first quarter of 2016.

International E&P segment average net sales volumes in 2015 decreased 9% when compared to 2014. There were no liftings in Libya during 2015 as a result of ongoing civil unrest. Sales volumes in E.G. were lower due to a series of turnarounds and other maintenance activities performed at the Alba field, E.G. LNG and AMPCO facilities during the year. In the U.K., sales volumes increased as we completed the five-well Brae infill drilling program that began in 2014.

Oil Sands Mining

Our OSM operations consist of a 20% non-operated working interest in the AOSP. Our net synthetic crude oil sales volumes were 59 mbbld in 2016 compared to 53 mbbld in 2015 and 50 mbbld in 2014. The 2016 increase was a result of strong mine and upgrader performance coupled with less planned maintenance.

We've continued our alignment with the operator and other partners to focus on reducing the mine's cost and increasing reliability. As a result, there has been noticeable impact on the mine's cost structure with a 24% reduction in production expense to \$27.89 per bbl for 2016 compared to 2015. See Item 7 Management's Discussion and Analysis of Financial Condition and Results of Operations for the 2016 compared to 2015 for additional detail on production expenses.

Market Conditions

Oil and gas benchmarks declined during 2016 and as a result, we experienced declines in our price realizations associated with those benchmarks. Although we expect crude oil, natural gas and NGLs benchmark prices to remain volatile based on global supply and demand, prices have improved subsequent to December 31, 2016. See Item 1A. Risk Factors and Item 7. Management's Discussion and Analysis of Financial Condition – Critical Accounting Estimates for further discussion of how a further decline in commodity prices could impact us.

North America E&P

The following table presents our average price realizations and the related benchmarks for crude oil, NGLs and natural gas for 2016, 2015 and 2014:

| | 2016 | Increase (Decrease) | 2015 | Decrease | 2014 |
|--|---------|------------------------|---------|----------|-------|
| Average Price Realizations ^(a) | | | | | |
| Crude Oil and Condensate <i>(per bbl)</i> ^(b) | \$38.57 | (11)% | \$43.50 | (49)% | 85.25 |
| Natural Gas Liquids <i>(per bbl)</i> | 13.15 | (2)% | 13.37 | (60)% | 33.42 |
| Total Liquid Hydrocarbons <i>(per bbl)</i> | 32.71 | (14)% | 37.85 | (51)% | 77.02 |
| Natural Gas <i>(per mcf)</i> ^(c) | 2.38 | (11)% | 2.66 | (42)% | 4.57 |
| Benchmarks | | | | | |
| WTI crude oil average of daily prices <i>(per bbl)</i> | \$43.47 | (11)% | \$48.76 | (48)% | 92.91 |
| LLS crude oil average of daily prices <i>(per bbl)</i> | 45.02 | (14)% | 52.33 | (46)% | 96.64 |
| Mont Belvieu NGLs <i>(per bbl)</i> ^(d) | 17.40 | 3 % | 16.94 | (48)% | 32.52 |
| Henry Hub natural gas settlement date average <i>(per mmbtu)</i> | 2.46 | (8)% | 2.66 | (40)% | 4.42 |

^(a) Excludes gains or losses on commodity derivative instruments.

^(b) Inclusion of realized gains on crude oil derivative instruments would have increased average liquid hydrocarbon price realizations per barrel by \$0.92 and \$1.24 for 2016 and 2015. There were no crude oil derivative instruments for 2014.

^(c) Inclusion of realized gains (losses) on natural gas derivative instruments would have a de minimus impact on average price realizations for the periods presented.

^(d) Bloomberg Finance LLP: Y-grade Mix NGL of 50% ethane, 25% propane, 10% butane, 5% isobutane and 10% natural gasoline.

Crude oil and condensate – Our crude oil and condensate price realizations may differ from the benchmark due to the quality and location of the product.

Natural gas liquids – The majority of our NGLs volumes are sold at reference to Mont Belvieu prices.

Natural gas – A significant portion of our natural gas production in the U.S. is sold at bid-week prices, or first-of-month indices relative to our specific producing areas.

International E&P

The following table presents our average price realizations and the related benchmark for crude oil for 2016, 2015 and 2014:

| | 2016 | Decrease | 2015 | Increase (Decrease) | 2014 |
|--|---------|----------|---------|------------------------|---------|
| Average Price Realizations | | | | | |
| Crude Oil and Condensate <i>(per bbl)</i> | \$41.70 | (12)% | \$47.50 | (46)% | \$87.23 |
| Natural Gas Liquids <i>(per bbl)</i> | 2.11 | (25)% | 2.81 | 14 % | 2.46 |
| Total Liquid Hydrocarbons <i>(per bbl)</i> | 32.10 | (12)% | 36.67 | (47)% | 68.98 |
| Natural Gas <i>(per mcf)</i> | 0.52 | (24)% | 0.68 | (6)% | 0.72 |
| Benchmark | | | | | |
| Brent (Europe) crude oil <i>(per bbl)</i> ^(a) | \$43.55 | (17)% | \$52.35 | (47)% | \$99.02 |

^(a) Average of monthly prices obtained from EIA website.

Our U.K. liquid hydrocarbon production is generally sold in relation to the Brent crude benchmark. Our production from the Alba field in E.G. is condensate and gas. Condensate is sold at market prices. The Alba Plant extracts NGLs and secondary condensate from gas, leaving dry natural gas. The processed NGLs are sold by Alba Plant at market prices, with our share of its income/loss reflected in Income from equity method investments. The dry natural gas from Alba Plant is supplied to AMPCO and EGHoldings under long-term contracts at fixed prices; therefore, our reported average realized prices for NGLs and natural gas will not fully track market price movements. Because of the location and limited local demand for natural gas in E.G., we consider the prices under the contracts with Alba Plant LLC, EGHoldings and AMPCO to be comparable to the price that could

be realized from transactions with unrelated parties in this market under the same or similar circumstances. EGHoldings and AMPCO process the gas into LNG and methanol, which are sold at market prices, with our share of their income/loss reflected in the Income from equity method investments line item on the Consolidated Statements of Income. Although uncommon, any dry gas not sold is returned offshore and re-injected into the Alba field for later production.

Oil Sands Mining

The Oil Sands Mining segment produces and sells various qualities of synthetic crude oil. Output mix can be impacted by operational reliability or planned unit outages at the mines or upgrader. Sales prices for synthetic crude oil historically tracked movements in the WTI crude oil and the WCS Canadian heavy crude oil benchmarks. The influence of each benchmark can change from period to period based on market dynamics.

The following table presents our average price realizations and the related benchmarks that impacted both our revenues and variable costs for 2016, 2015 and 2014:

| | 2016 | Decrease | 2015 | Decrease | 2014 |
|--|-------------|-----------------|-------------|-----------------|-------------|
| Average Price Realizations | | | | | |
| Synthetic Crude Oil (<i>per bbl</i>) | \$37.57 | (6%) | \$40.13 | (52%) | \$83.35 |
| Benchmark | | | | | |
| WTI crude oil average of daily prices (<i>per bbl</i>) | \$43.47 | (11%) | \$48.76 | (48%) | \$92.91 |
| WCS crude oil (<i>per bbl</i>) ^(a) | 29.48 | (16%) | 35.28 | (52%) | 73.60 |

^(a) Average of monthly prices based upon average WTI adjusted for differentials unique to western Canada.

Consolidated Results of Operations: 2016 compared to 2015

Sales and other operating revenues, including related party are summarized by segment in the following table:

| <i>(In millions)</i> | Year Ended December 31, | |
|---|-------------------------|-----------------|
| | 2016 | 2015 |
| Sales and other operating revenues, including related party | | |
| North America E&P | \$ 2,375 | \$ 3,358 |
| International E&P | 665 | 728 |
| Oil Sands Mining | 823 | 815 |
| Segment sales and other operating revenues, including related party | <u>3,863</u> | <u>4,901</u> |
| Unrealized gain (loss) on commodity derivative instruments | (110) | 50 |
| Sales and other operating revenues, including related party | <u>\$ 3,753</u> | <u>\$ 4,951</u> |

Below is a price/volume analysis for each segment. Refer to the preceding Operations and Market Conditions sections for additional detail related to our net sales volumes and average price realizations.

| <i>(In millions)</i> | Year Ended December 31, | Increase (Decrease) Related to | | Year Ended December 31, |
|--|----------------------------|--------------------------------|----------------------|----------------------------|
| | 2015 | Price Realizations | Net Sales Volumes | 2016 |
| North America E&P Price-Volume Analysis^(a) | | | | |
| Liquid hydrocarbons | \$ 2,905 | \$ (321) | \$ (543) | \$ 2,041 |
| Natural gas | 341 | (32) | (35) | 274 |
| Realized gain on commodity derivative instruments | 78 | | | 44 |
| Other sales | 34 | | | 16 |
| Total | <u>\$ 3,358</u> | | | <u>\$ 2,375</u> |
| International E&P Price-Volume Analysis | | | | |
| Liquid hydrocarbons | \$ 578 | \$ (78) | \$ 46 | \$ 546 |
| Natural gas | 108 | (25) | 4 | 87 |
| Other sales | 42 | | | 32 |
| Total | <u>\$ 728</u> | | | <u>\$ 665</u> |
| Oil Sands Mining Price-Volume Analysis | | | | |
| Synthetic crude oil | \$ 781 | \$ (61) | \$ 95 | \$ 815 |
| Other sales | 34 | | | 8 |
| Total | <u>\$ 815</u> | | | <u>\$ 823</u> |

^(a) Year ended December 31, 2015 includes 23 mboed relating to assets sold that are not contributing sales volumes in all or a portion of 2016, primarily consisting of Wyoming, East Texas, North Louisiana and certain Gulf of Mexico assets.

Marketing revenues decreased \$293 million in 2016 from 2015. Marketing activities include the purchase of commodities from third parties for resale and serve to aggregate volumes in order to satisfy transportation commitments as well as to achieve flexibility within product types and delivery points. Since the volume of marketing activity is based on market dynamics, it can fluctuate from period to period. The decreases are primarily related to lower marketed volumes in North America, which were further compounded by a lower commodity price environment.

Income from equity method investments increased \$30 million primarily due to higher net sales volumes in the second half of 2016 at E.G. as a result of the completion of the Alba field compression project. Additionally, a partial impairment of our investment in an equity method investee in 2015 of \$12 million contributed to the increase in the current year.

Net gain on disposal of assets increased \$269 million in 2016 from 2015. See Item 8. Financial Statements and Supplementary Data - Note 6 to the consolidated financial statements for information about these dispositions.

Production expenses decreased \$381 million in 2016 from 2015. North America E&P declined \$238 million primarily due to lower operational, maintenance and labor costs, coupled with lower net sales volumes resulting from the impact of our non-core asset dispositions and lower activity levels. International E&P declined \$29 million largely due to lower operational and maintenance costs as well as a more favorable exchange rate on expenses. OSM decreased \$114 million primarily due to continued lower turnaround costs, cost management, specifically staffing and contract labor, and a favorable exchange rate on expenses denominated in foreign currencies.

The 2016 production expense rate (expense per boe) for North America E&P declined primarily due to cost reductions that occurred at a rate faster than our production decline. The International E&P expense rate decreased in 2016 primarily due to reduced maintenance and project costs in the U.K. and benefited from the favorable exchange rate. The OSM expense rate decreased in 2016 primarily due to lower operational costs and the favorable exchange rate. The following table provides production expense rates for each segment:

| <i>(\$ per boe)</i> | 2016 | 2015 |
|---------------------------------|-------------|-------------|
| North America E&P | \$5.96 | \$7.38 |
| International E&P | \$5.05 | \$5.99 |
| Oil Sands Mining ^(a) | \$27.89 | \$36.48 |

^(a) Production expense per synthetic crude oil barrel (before royalties) includes production costs, shipping and handling, taxes other than income and insurance costs and excludes pre-development costs.

Marketing expenses decreased \$287 million in 2016 from the prior year, consistent with the decrease in marketing revenues discussed above.

Other operating expenses increased \$73 million primarily as a result of the termination payment of our Gulf of Mexico deepwater drilling rig.

Exploration expenses decreased \$988 million in 2016 compared to 2015, reflecting our strategic decision to transition out of conventional exploration. In 2016, unproved property impairments primarily consisted of non-cash charges related to our decision to not drill our remaining Gulf of Mexico leases and also included certain other unproved properties in North America. In 2015, unproved property impairments are due to changes in our conventional exploration strategy (Gulf of Mexico, Canadian in-situ assets and Harir block in the Kurdistan Region of Iraq), and the sale of certain properties in the Gulf of Mexico, as well as our unproved property in Colorado.

Dry well costs in 2015 included the operated Solomon exploration well in the Gulf of Mexico, our operated Sodalita West #1 exploratory well in E.G., and suspended well costs related to our Canadian in-situ assets at Birchwood.

The following table summarizes the components of exploration expenses:

| <i>(In millions)</i> | Year Ended December 31, | |
|-----------------------------------|--------------------------------|-----------------|
| | 2016 | 2015 |
| Unproved property impairments | \$ 195 | \$ 964 |
| Dry well costs | 32 | 250 |
| Geological and geophysical | 5 | 31 |
| Other | 98 | 73 |
| Total exploration expenses | \$ 330 | \$ 1,318 |

Exploration expenses are also discussed in Item 8. Financial Statements and Supplementary Data - Note 13 to the consolidated financial statements.

Depreciation, depletion and amortization decreased \$562 million in 2016 from the prior year primarily as a result of net sales volume decreases in the North America E&P segment, including the impact of non-core asset dispositions, and volume declines due to base declines and lower completion activity. Our segments apply the units-of-production method to the majority of their assets, including capitalized asset retirement costs; therefore, volumes have an impact on DD&A expense.

The DD&A rate (expense per boe), which is impacted by field-level changes in sales volumes, reserves and capitalized costs, can also cause changes to our DD&A. The following table provides DD&A rates for each segment. The DD&A rate for North America E&P decreased primarily due to a higher proved reserve base. The DD&A rate for International E&P declined primarily due to sales volume mix changes in E.G. and the U.K. for 2016.

| <i>(\$ per boe)</i> | 2016 | 2015 |
|---------------------|-------------|-------------|
| North America E&P | \$22.49 | \$24.24 |
| International E&P | \$6.21 | \$6.95 |
| Oil Sands Mining | \$11.32 | \$12.48 |

Impairments decreased \$685 million in 2016 versus 2015. Impairments in 2016 were primarily the result of lower forecasted commodity prices in conventional properties in Oklahoma and the Gulf of Mexico, and were also the result of revisions to estimated abandonment costs. Impairments in 2015 included \$340 million for the goodwill impairment of the North America E&P reporting unit, and \$335 million related to proved properties (primarily in Colorado and the Gulf of Mexico) as a result of lower forecasted commodity prices, and \$44 million associated with our disposition of natural gas assets in East Texas, North Louisiana and Wilburton, Oklahoma.

See Item 8. Financial Statements and Supplementary Data - Note 13 and Note 14 to the consolidated financial statement for additional detail.

Taxes other than income includes production, severance and ad valorem taxes, primarily in the U.S., which tend to increase or decrease in relation to revenue and sales volumes. The decline in revenue and sales volumes during 2016 resulted in a decline of \$66 million compared to 2015. The following table summarizes the components of taxes other than income:

| <i>(In millions)</i> | Year Ended December 31, | |
|--------------------------|-------------------------|--------|
| | 2016 | 2015 |
| Production and severance | \$ 91 | \$ 131 |
| Ad valorem | 23 | 39 |
| Other | 54 | 64 |
| Total | \$ 168 | \$ 234 |

General and administrative expenses decreased \$106 million primarily due to cost savings realized from the 2015 workforce reductions including corresponding severance expenses.

Net interest and other increased \$68 million primarily due to an increase in interest expense as a result of the increase in long-term debt in the second quarter of 2015. The components of net interest and other are detailed in Item 8. Financial Statements and Supplementary Data - Note 8 to the consolidated financial statements.

Provision (benefit) for income taxes reflects an effective tax rate of 73% and (25)% for 2016 and 2015. The increase of the 2016 effective tax rate was primarily due to the valuation allowance increase of \$1,346 million related to U.S. benefits on foreign taxes and other federal deferred tax assets.

See Item 8. Financial Statements and Supplementary Data - Note 9 to the consolidated financial statements for a discussion of the effective income tax rate.

Segment Results: 2016 compared to 2015

Segment income (loss) for 2016 and 2015 is summarized and reconciled to net income (loss) in the following table.

| <i>(In millions)</i> | Year Ended December 31, | |
|--|-------------------------|------------|
| | 2016 | 2015 |
| North America E&P | \$ (415) | \$ (486) |
| International E&P | 228 | 112 |
| Oil Sands Mining | (55) | (113) |
| Segment income (loss) | (242) | (487) |
| Items not allocated to segments, net of income taxes | (1,898) | (1,717) |
| Net income (loss) | \$ (2,140) | \$ (2,204) |

North America E&P segment loss decreased \$71 million in 2016 compared to 2015 as a result of lower net sales volumes and their impact to DD&A, production costs and taxes other than income which was nearly offset by lower revenues as a result of decreases in both price realizations and net sales volumes. The remainder of the decrease was due to lower exploration expenses in 2016 relative to 2015.

International E&P segment income increased \$116 million in 2016 compared to 2015. The increase was largely due to lower exploration expenses in 2016, as our 2015 expense included costs relating to our transition out of our conventional exploration program. The remainder of the increase was due to lower production costs and DD&A as a result of lower asset retirement costs and sales mix, and an increase in income from equity method investments, partially offset by lower price realizations.

Oil Sands Mining segment loss decreased \$58 million in 2016 compared to 2015 primarily due to higher sales volumes and lower production expenses, which were partially offset by lower price realizations.

Consolidated Results of Operations: 2015 compared to 2014

Sales and other operating revenues, including related party are summarized by segment in the following table:

| <i>(In millions)</i> | Year Ended December 31, | |
|---|-------------------------|----------|
| | 2015 | 2014 |
| Sales and other operating revenues, including related party | | |
| North America E&P | \$ 3,358 | \$ 5,770 |
| International E&P | 728 | 1,410 |
| Oil Sands Mining | 815 | 1,556 |
| Segment sales and other operating revenues, including related party | 4,901 | 8,736 |
| Unrealized gain on crude oil derivative instruments | 50 | — |
| Sales and other operating revenues, including related party | \$ 4,951 | \$ 8,736 |

Below is a price/volume analysis for each segment. Refer to the preceding Operations and Market Conditions sections for additional detail related to our net sales volumes and average price realizations.

| <i>(In millions)</i> | Year Ended | Increase (Decrease) Related to | | Year Ended |
|--|--------------|--------------------------------|-------------------|--------------|
| | December 31, | Price Realizations | Net Sales Volumes | December 31, |
| | 2014 | | | 2015 |
| North America E&P Price-Volume Analysis | | | | |
| Liquid hydrocarbons | \$ 5,240 | \$ (3,006) | \$ 671 | \$ 2,905 |
| Natural gas | 516 | (243) | 68 | 341 |
| Realized gain on crude oil derivative instruments | — | 78 | | 78 |
| Other sales | 14 | | | 34 |
| Total | \$ 5,770 | | | \$ 3,358 |
| International E&P Price-Volume Analysis | | | | |
| Liquid hydrocarbons | \$ 1,240 | \$ (509) | \$ (153) | \$ 578 |
| Natural gas | 124 | (8) | (8) | 108 |
| Other sales | 46 | | | 42 |
| Total | \$ 1,410 | | | \$ 728 |
| Oil Sands Mining Price-Volume Analysis | | | | |
| Synthetic crude oil | \$ 1,525 | \$ (842) | \$ 98 | \$ 781 |
| Other sales | 31 | | | 34 |
| Total | \$ 1,556 | | | \$ 815 |

Marketing revenues decreased \$1,539 million in 2015 from 2014. Marketing activities include the purchase of commodities from third parties for resale and serve to aggregate volumes in order to satisfy transportation commitments as well as to achieve flexibility within product types and delivery points. Since the volume of marketing activity is based on market dynamics, it can fluctuate from period to period. The decreases are primarily related to the lower commodity price environment as well as lower marketed volumes in North America.

Income from equity method investments decreased \$279 million primarily due to lower price realizations for LPG at our Alba Plant, LNG at our LNG facility and lower methanol prices at our AMPCO methanol facility, all of which are located in E.G. Also contributing to the decrease were lower sales volumes due to planned turnaround and maintenance activities at the AMPCO methanol plant, the Alba field and the LNG facility.

Net gain on disposal of assets in 2015 was related to the sale of our operated producing properties in the greater Ewing Bank area and non-operated producing interests in the Petronius field in the Gulf of Mexico. The gain associated with those assets was partially offset by the loss on sale of East Africa exploration acreage in Ethiopia and Kenya. The net loss on disposal of assets in 2014 was primarily related to the sale of non-core acreage located in the far northwest portion of the Williston Basin. See Item 8. Financial Statements and Supplementary Data - Note 6 to the consolidated financial statements for information about these dispositions.

Production expenses decreased \$552 million in 2015 from 2014. Our focus on cost discipline and efficiencies yielded sustainable savings in production costs. North America E&P declined \$167 million due to lower operational, maintenance and labor costs. International E&P declined \$131 million due to lower project work, repair, maintenance and turnaround costs, as

well as lower production volumes. OSM declined \$254 million primarily due to cost management, especially staffing and contract labor, lower fuel and utility costs, and lower feedstock purchases given the increased mine and upgrader reliability, combined with a more favorable exchange rate on expenses denominated in the Canadian dollar.

The production expense rate (expense rate per boe) decreased for each of our segments as total production costs declined due to reasons described in the preceding paragraph. The North America E&P and OSM segments also experienced volume increases, which further contributed to the expense rate decline. The following table provides production expense rates for each segment:

| <i>(\$ per boe)</i> | 2015 | 2014 |
|---------------------------------|-------------|-------------|
| North America E&P | \$7.38 | \$10.25 |
| International E&P | \$5.99 | \$8.31 |
| Oil Sands Mining ^(a) | \$36.48 | \$44.53 |

(a) Production expense per synthetic crude oil barrel (before royalties) includes production costs, shipping and handling, taxes other than income and insurance costs and excludes pre-development costs.

Marketing expenses decreased \$1,536 million in 2015 from the prior year, consistent with the decreases in marketing revenues discussed above.

Exploration expenses increased \$525 million in 2015, primarily due to higher unproved property impairments in North America. During 2015, we made a strategic decision to reduce the overall level of our conventional exploration program; as a result, we impaired our Canadian in-situ assets, certain of our leases in the Gulf of Mexico and the Harir block in the Kurdistan Region of Iraq. We also impaired unproved property in Colorado in 2015, which we deemed uneconomic given our forecasted natural gas prices.

Unproved property impairments in 2014 primarily were a result of Eagle Ford and Bakken leases that either expired or we decided not to drill or extend.

Dry well costs for 2015 include the operated Solomon well in the Gulf of Mexico, our operated Sodalita West #1 exploratory well in E.G., and suspended well costs related to our Canadian in-situ assets at Birchwood. Dry well costs in 2014 also included our operated Sodalita West #1 exploratory well in E.G. which was drilling over year-end 2014, the operated Key Largo well, outside-operated Perseus well and the outside operated second Shenandoah appraisal well, all of which are located in the Gulf of Mexico. In addition, 2014 also includes our exploration programs in the Kurdistan Region of Iraq, Ethiopia and Kenya.

The following table summarizes the components of exploration expenses:

| <i>(In millions)</i> | Year Ended December 31, | |
|-------------------------------|--------------------------------|-------------|
| | 2015 | 2014 |
| Unproved property impairments | \$ 964 | \$ 306 |
| Dry well costs | 250 | 317 |
| Geological and geophysical | 31 | 85 |
| Other | 73 | 85 |
| Total exploration expenses | \$ 1,318 | \$ 793 |

Exploration expense are also discussed in Item 8. Financial Statements and Supplementary Data - Note 13 to the consolidated financial statements.

Depreciation, depletion and amortization increased \$96 million in 2015 from the prior year primarily as a result of higher North America E&P net sales volumes from our three U.S. resource plays. Our segments apply the units-of-production method to the majority of their assets, including capitalized asset retirement costs; therefore, proved reserve and production volumes have an impact on DD&A expense.

The DD&A rate (expense rate per boe), which is impacted by changes in proved reserves, capitalized costs and sales volume mix by field, can also cause changes to our DD&A. The following table provides DD&A rates for each segment. The DD&A rate for North America E&P decreased primarily as a result of a higher proved reserve base in the Eagle Ford. The International E&P rate increased primarily due to higher sales volumes from the Brae infill drilling program.

| <i>(\$ per boe)</i> | 2015 | 2014 |
|---------------------|-------------|-------------|
| North America E&P | \$24.24 | \$26.95 |
| International E&P | \$6.95 | \$5.79 |
| Oil Sands Mining | \$12.48 | \$12.07 |

Impairments for 2015 included \$340 million for the goodwill impairment of the North America E&P reporting unit, \$335 million related to proved properties (primarily in Colorado and the Gulf of Mexico) as a result of lower forecasted commodity prices and \$44 million associated with our disposition of natural gas assets in East Texas, North Louisiana and Wilburton, Oklahoma. Impairments for 2014 consisted primarily of proved properties in the Gulf of Mexico, Texas and North Dakota as a result of revisions to estimated abandonment costs and lower forecasted commodity prices. See Item 8. Financial Statements and Supplementary Data - Note 13 and Note 14 to the consolidated financial statement for additional detail.

Taxes other than income include production, severance and ad valorem taxes, primarily in the U.S., which tend to increase or decrease in relation to revenues and sales volumes. With the decrease in North America E&P revenues due to lower price realizations, taxes other than income decreased \$172 million in 2015. This decrease was partially offset by an increase in sales volumes in North America E&P. The following table summarizes the components of taxes other than income:

| <i>(In millions)</i> | Year Ended December 31, | |
|--------------------------|-------------------------|--------|
| | 2015 | 2014 |
| Production and severance | \$ 131 | \$ 240 |
| Ad valorem | 39 | 74 |
| Other | 64 | 92 |
| Total | \$ 234 | \$ 406 |

General and administrative expenses decreased \$64 million primarily due to cost savings realized from the workforce reductions that occurred during 2015. This decrease was partially offset by severance expenses of \$55 million associated with the workforce reductions and an increase in pension settlement expense. Pension settlement expenses in 2015 totaled \$119 million as compared to \$99 million in 2014.

Net interest and other increased \$29 million primarily due to increased interest expense associated with an increase in long-term debt. The components of net interest and other are detailed in Item 8. Financial Statements and Supplementary Data - Note 8 to the consolidated financial statements.

Provision (benefit) for income taxes reflects an effective tax rate of (25)% and 29% for each of 2015 and 2014. See Item 8. Financial Statements and Supplementary Data - Note 9 to the consolidated financial statements for a discussion of the effective income tax rate.

Discontinued operations is presented net of tax. We closed the sale of our Angola assets and Norway business in 2014, and both are reflected as discontinued operations for 2014. Included in the discontinued operations for 2014 are after-tax gains of \$532 million and \$976 million related to the dispositions of Angola and Norway respectively. See Item 8. Financial Statements and Supplementary Data - Note 6 to the consolidated financial statements.

Segment Results: 2015 compared to 2014

Segment income (loss) for 2015 and 2014 is summarized and reconciled to net income (loss) in the following table.

| <i>(In millions)</i> | Year Ended December 31, | |
|--|-------------------------|----------|
| | 2015 | 2014 |
| North America E&P | \$ (486) | \$ 693 |
| International E&P | 112 | 568 |
| Oil Sands Mining | (113) | 235 |
| Segment income (loss) | (487) | 1,496 |
| Items not allocated to segments, net of income taxes | \$ (1,717) | (527) |
| Income (loss) from continuing operations | (2,204) | 969 |
| Discontinued operations | — | 2,077 |
| Net income (loss) | \$ (2,204) | \$ 3,046 |

North America E&P segment income (loss) decreased \$1,179 million in 2015 compared to 2014. The decrease was primarily due to lower price realizations, which was partially offset by the impacts from the increased net sales volumes from the three U.S resource plays and lower production costs (even though net sales volumes increased).

International E&P segment income decreased \$456 million in 2015 compared to 2014. The decrease was largely due to lower liquid hydrocarbon price realizations as well as reduced income from equity investments. These declines were partially offset by lower production, operating and exploration expenses.

Oil Sands Mining segment income (loss) decreased \$348 million in 2015 compared to 2014 primarily as result of lower price realizations, partially offset by higher sales volumes and reduced production expenses.

Management's Discussion and Analysis of Financial Condition, Cash Flows and Liquidity

Commodity prices are the most significant factor impacting our operating cash flows and the amount of capital available to reinvest into the business. In 2016, we closed on the sale of certain non-core assets resulting in net proceeds of \$1.2 billion, including closing adjustments, which allowed us to be opportunistic with a high quality acquisition in Oklahoma's STACK play. Our successful portfolio management allowed us to realize our goal of living within cash flows in 2016. Beyond the proceeds the non-core asset sales generated, the portfolio changes enhance our profitability by driving out higher unit cost operations and allowing for the more efficient allocation of our Capital Program to the high return opportunities in the U.S. resource plays. We plan to continue the progress we made in 2016 towards achieving profitable growth within cash flows as the price environment improves.

Steps taken to respond to the sustained low commodity prices during 2016 included the following strategic actions:

- Divested of certain non-core assets resulting in net proceeds of \$1.2 billion
- Raised proceeds of \$1.2 billion from an equity offering in the first quarter of 2016
- Reduced cash additions to property, plant and equipment to \$1.2 billion, a 64% decrease compared to 2015
- Expanded the capacity of the revolving credit facility from \$3.0 billion to \$3.3 billion in the first quarter of 2016
- Improved cost structure by reducing total company production expenses by 23% and production expense per boe in 2016 by:
 - North America E&P - 19% reduction to \$5.96 per boe
 - International E&P - 16% reduction to \$5.05 per boe
 - Oil Sands Mining - 24% reduction to \$27.89 per boe
- Increased cash and cash equivalents by \$1.3 billion from year-end 2015
- Progressed our 2017 commodity hedging program which covers approximately 40% of our expected U.S. crude oil and natural gas production. Pricing for these hedges is discussed in further detail in Item 8. Financial Statements and Supplementary Data – Note 16 to the consolidated financial statements

At December 31, 2016, we had approximately \$5.8 billion of liquidity consisting of \$2.5 billion in cash and cash equivalents and \$3.3 billion available under our revolving credit facility. As previously discussed in Outlook, we are targeting a \$2.2 billion Capital Program for 2017. We believe our current liquidity level and balance sheet, along with our non-core asset disposition program and ability to access the capital markets provides us with the flexibility to fund our business throughout the sustained lower commodity price cycle. We will continue to evaluate the commodity price environment and our spending throughout 2017.

Cash Flows

The following table presents sources and uses of cash and cash equivalents for 2016, 2015 and 2014:

| <i>(In millions)</i> | Year Ended December 31, | | |
|---|--------------------------------|-------------------|-------------------|
| | 2016 | 2015 | 2014 |
| Sources of cash and cash equivalents | | | |
| Continuing operations | \$ 1,073 | \$ 1,565 | \$ 4,736 |
| Discontinued operations | — | — | 751 |
| Disposals of assets | 1,219 | 225 | 3,760 |
| Issuance of common stock | 1,236 | — | — |
| Maturities of short-term investment | — | 925 | — |
| Borrowings, net | — | 1,996 | — |
| Other | 56 | 91 | 214 |
| Total sources of cash and cash equivalents | \$ 3,584 | \$ 4,802 | \$ 9,461 |
| Uses of cash and cash equivalents | | | |
| Cash additions to property, plant and equipment | \$ (1,245) | \$ (3,476) | \$ (5,160) |
| Purchases of short-term investments | — | (925) | — |
| Investing activities of discontinued operations | — | — | (376) |
| Acquisitions | (902) | — | (21) |
| Purchases of common stock | — | — | (1,000) |
| Commercial paper, net | — | — | (135) |
| Debt repayments | (1) | (1,069) | (68) |
| Debt issuance costs | — | (19) | — |
| Dividends paid | (162) | (460) | (543) |
| Other | (5) | (30) | (24) |
| Total uses of cash and cash equivalents | \$ (2,315) | \$ (5,979) | \$ (7,327) |

Cash flows from continuing operations in 2016 were lower than 2015 as the downturn in commodity prices continued to impact price realizations coupled with lower net sales volumes which negatively impact our cash flows from operating activities. In 2016, our weighted average crude oil and natural gas price realizations were down 11% and 16% as compared to the prior year.

Proceeds from disposals of assets in 2016 are primarily from the sale of our Wyoming upstream and midstream assets, as well as the sale of certain other assets in West Texas and New Mexico. Disposals of assets in 2015 pertain to the sale of certain of our operated and non-operated producing properties in the Gulf of Mexico as well as natural gas assets in East Texas, North Louisiana and Wilburton, Oklahoma. Disposals in 2014 primarily reflect the proceeds from the sales of our Angola assets and our Norway business. Disposition transactions are discussed in further detail in Item 8. Financial Statements and Supplementary Data – Note 6 to the consolidated financial statements.

Issuance of common stock reflects net proceeds received in March 2016. See Item 8. Financial Statements and Supplementary Data - Note 23 to the consolidated financial statements for additional information.

Cash flows from discontinued operations primarily related to our Norway business, which we disposed of in fourth quarter 2014.

Borrowings reflect net proceeds received from the issuance of senior notes in June 2015. In November 2015, we repaid our \$1 billion 0.90% senior notes upon maturity.

We announced an adjustment to our quarterly dividend starting in third quarter 2015, with the full-year impact resulting in a decrease of dividends paid in the current year.

During the third quarter of 2016, we closed the Oklahoma STACK acquisition for a purchase price of \$902 million, net of cash acquired; see Item 8. Financial Statements and Supplementary Data – Note 5 to the consolidated financial statements for further information concerning acquisitions.

Additions to property, plant and equipment are our most significant use of cash and cash equivalents. The following table shows capital expenditures related to continuing operations by segment and reconciles to additions to property, plant and equipment as presented in the consolidated statements of cash flows for 2016, 2015 and 2014:

| <i>(In millions)</i> | Year Ended December 31, | | |
|--|--------------------------------|-----------------|-----------------|
| | 2016 | 2015 | 2014 |
| North America E&P | \$ 936 | \$ 2,553 | \$ 4,698 |
| International E&P | 82 | 368 | 534 |
| Oil Sands Mining ^(a) | 33 | (10) | 212 |
| Corporate | 18 | 25 | 51 |
| Total capital expenditures | <u>1,069</u> | <u>2,936</u> | <u>5,495</u> |
| Change in capital expenditure accrual | 176 | 540 | (335) |
| Additions to property, plant and equipment | <u>\$ 1,245</u> | <u>\$ 3,476</u> | <u>\$ 5,160</u> |

^(a) Reflects reimbursements earned from the governments of Canada and Alberta related to funds previously expended for Quest CCS capital equipment. Quest CCS was successfully completed and commissioned in the fourth quarter of 2015.

There were no share repurchases in 2016 or 2015. During 2014, we acquired 29 million shares at a cost of \$1 billion. See Item 8. Financial Statements and Supplementary Data – Note 23 to the consolidated financial statements for discussion of purchases of common stock.

Liquidity and Capital Resources

In March 2016, we issued 166,750,000 shares of our common stock, par value \$1 per share, at a price of \$7.65 per share, excluding underwriting discounts and commissions, for net proceeds of \$1,236 million. The proceeds were used to strengthen our balance sheet and for general corporate purposes, including funding a portion of our Capital Program.

Also in March 2016, we increased our \$3 billion unsecured revolving credit facility by \$300 million to a total of \$3.3 billion. Fees on the unused commitment of each lender, as well as the borrowing options under the revolving credit facility, remain unaffected by the increase.

Our main sources of liquidity are cash and cash equivalents, internally generated cash flow from operations, sales of non-core assets, capital market transactions, and our \$3.3 billion revolving credit facility. At December 31, 2016, we had approximately \$5.8 billion of liquidity consisting of \$2.5 billion in cash and cash equivalents and \$3.3 billion available under our revolving credit facility. Our working capital requirements are supported by these sources and we may draw on our \$3.3 billion revolving credit facility to meet short-term cash requirements, or issue debt or equity securities through the shelf registration statement discussed below as part of our longer-term liquidity and capital management. Because of the alternatives available to us as discussed above, we believe that our short-term and long-term liquidity are adequate to fund not only our current operations, but also our near-term and long-term funding requirements including our capital spending programs, dividend payments, defined benefit plan contributions, repayment of debt maturities, and other amounts that may ultimately be paid in connection with contingencies.

Due to decreases in crude oil and U.S. natural gas prices, credit rating agencies reviewed companies in the industry earlier this year. During the first quarter of 2016, our corporate credit rating was downgraded by: Standard & Poor's Ratings Services to BBB- (stable) from BBB (stable); by Fitch Ratings to BBB (negative) from BBB+ (stable); and by Moody's Investor Services, Inc. to Ba1 (negative) from Baa1 (stable). On October 11, 2016, Moody's Investor Services, Inc. subsequently revised their outlook of our corporate credit rating to stable from negative. Any further rating downgrades could increase our future cost of financing or limit our ability to access capital, and result in additional collateral requirements. See Item 1A. Risk Factors for a discussion of how a further downgrade in our credit ratings could affect us.

We may incur additional debt in order to fund our capital expenditures, acquisitions or development activities, or for general corporate or other purposes. A higher level of indebtedness could increase the risk that our liquidity and financial flexibility deteriorates. See Item 1A. Risk Factors for a further discussion of how our level of indebtedness could affect us.

The June 23, 2016 referendum by British voters to exit the European Union ("Brexit") provided volatility around European currencies and resulted in a decline in the value of the British pound, as compared to the U.S. dollar and other currencies. For our U.K. operations, a majority of our revenues are tied to global crude oil prices which are denominated in U.S. dollars while a significant portion of our operating and capital costs are denominated in British pounds. In addition, our U.K. operations have an asset retirement obligation, which represents a future cash commitment. In the longer term, any impact from Brexit on our U.K. operations will depend, in part, on the outcome of tariff, trade, regulatory, and other negotiations.

Capital Resources

Credit Arrangements and Borrowings

At December 31, 2016, we had no borrowings against our revolving credit facility.

At December 31, 2016, we had \$7.3 billion in long-term debt outstanding, with our next debt maturity in the amount of \$682 million due in the fourth quarter of 2017.

We do not have any triggers on any of our corporate debt that would cause an event of default in the case of a downgrade of our credit ratings.

Shelf Registration

We have a universal shelf registration statement filed with the SEC, under which we, as a "well-known seasoned issuer" for purposes of SEC rules, have the ability to issue and sell an indeterminate amount of various types of debt and equity securities.

Asset Disposals

We have closed or announced \$1.3 billion of non-core asset sales during 2016. In the largest transaction, we announced the sale of our Wyoming upstream and midstream assets and received proceeds of approximately \$845 million. We also entered into multiple agreements to sell certain non-operated assets, and CO2 and waterflood assets in West Texas and New Mexico for combined proceeds of approximately \$302 million. Additionally, we entered into separate agreements to sell our 10% working interest in the outside-operated Shenandoah discovery in the Gulf of Mexico, operated natural gas assets in the Piceance basin in Colorado and certain undeveloped acreage in West Texas for a combined total of approximately \$80 million in proceeds. We closed on certain of these asset sales in 2016, with the remaining asset sales expected to close in the second quarter of 2017.

See Item 8. Financial Statements and Supplementary Data – Note 6 to the consolidated financial statements for additional discussion of these dispositions.

Cash-Adjusted Debt-To-Capital Ratio

Our cash-adjusted debt-to-capital ratio (total debt-minus-cash to total debt-plus-equity-minus-cash) was 21% at December 31, 2016 and 25% at December 31, 2015.

| <i>(Dollars in millions)</i> | 2016 | 2015 |
|---|------------------|------------------|
| Long-term debt due within one year | \$ 686 | \$ 1 |
| Long-term debt | 6,589 | 7,276 |
| Total debt | <u>\$ 7,275</u> | <u>\$ 7,277</u> |
| Cash and cash equivalents | \$ 2,490 | \$ 1,221 |
| Equity | <u>\$ 17,541</u> | <u>\$ 18,553</u> |
| Calculation | | |
| Total debt | \$ 7,275 | \$ 7,277 |
| Minus cash and cash equivalents | <u>2,490</u> | <u>1,221</u> |
| Total debt minus cash and cash equivalents | <u>4,785</u> | <u>6,056</u> |
| Total debt | \$ 7,275 | \$ 7,277 |
| Plus equity | 17,541 | 18,553 |
| Minus cash and cash equivalents | <u>2,490</u> | <u>1,221</u> |
| Total debt plus equity minus cash, cash equivalents | <u>\$ 22,326</u> | <u>\$ 24,609</u> |
| Cash-adjusted debt-to-capital ratio | 21% | 25% |

Capital Requirements

Capital Spending

Our approved Capital Program for 2017 is \$2.2 billion. Additional details were previously discussed in Outlook.

Share Repurchase Program

The remaining share repurchase authorization as of December 31, 2016 is \$1.5 billion.

Other Expected Cash Outflows

On January 25, 2017, our Board of Directors approved a dividend of \$0.05 per share for the fourth quarter of 2016. The dividend is payable on March 10, 2017 to shareholders on record on February 15, 2017.

We plan to make contributions of up to \$60 million to our funded pension plans during 2017. Cash contributions to be paid from our general assets for the unfunded pension and postretirement plans are expected to be approximately \$5 million and \$21 million in 2017.

Contractual Cash Obligations

The table below provides aggregated information on our consolidated obligations to make future payments under existing contracts as of December 31, 2016.

| <i>(In millions)</i> | Total | 2017 | 2018-2019 | 2020-2021 | Later Years |
|---|------------------|-----------------|-----------------|-----------------|-----------------|
| Short and long-term debt (includes interest) ^(a) | \$ 11,318 | \$ 1,042 | \$ 1,654 | \$ 1,102 | \$ 7,520 |
| Lease obligations | 183 | 36 | 58 | 55 | 34 |
| Purchase obligations: | | | | | |
| Oil and gas activities ^(b) | 151 | 128 | 14 | 7 | 2 |
| Service and materials contracts ^(c) | 764 | 78 | 93 | 28 | 565 |
| Transportation and related contracts | 1,606 | 256 | 483 | 261 | 606 |
| Drilling rigs and fracturing crews ^(d) | 44 | 44 | — | — | — |
| Other | 126 | 20 | 32 | 22 | 52 |
| Total purchase obligations | 2,691 | 526 | 622 | 318 | 1,225 |
| Other long-term liabilities reported in the consolidated balance sheet ^(e) | 370 | 51 | 69 | 69 | 181 |
| Total contractual cash obligations^(f) | \$ 14,562 | \$ 1,655 | \$ 2,403 | \$ 1,544 | \$ 8,960 |

^(a) Includes anticipated cash payments for interest of \$359 million for 2017, \$572 million for 2018-2019, \$502 million for 2020-2021 and \$2,585 million for the remaining years for a total of \$4,018 million.

^(b) Oil and gas activities include contracts to acquire property, plant and equipment and commitments for oil and gas exploration such as costs related to contractually obligated exploratory work programs that are expensed immediately.

^(c) Service and materials contracts include contracts to purchase services such as utilities, supplies and various other maintenance and operating services.

^(d) Some contracts may be canceled at an amount less than the contract amount. Were we to elect that option where possible at December 31, 2016 our minimum commitment would be \$42 million.

^(e) Primarily includes obligations for pension and other postretirement benefits including medical and life insurance. We have estimated projected funding requirements through 2026. Although unrecognized tax benefits are not a contractual obligation, they are presented in this table because they represent potential demands on our liquidity.

^(f) This table does not include the estimated discounted liability for dismantlement, abandonment and restoration costs of oil and gas properties of \$1,748 million. See Item 8. Financial Statements and Supplementary Data – Note 18 to the consolidated financial statements.

Transactions with Related Parties

We own a 63% working interest in the Alba field offshore E.G. Onshore E.G., we own a 52% interest in an LPG processing plant, a 60% interest in an LNG production facility and a 45% interest in a methanol production plant, each through equity method investees. We sell our natural gas from the Alba field to these equity method investees as the feedstock for their production processes.

Off-Balance Sheet Arrangements

Off-balance sheet arrangements comprise those arrangements that may potentially impact our liquidity, capital resources and results of operations, even though such arrangements are not recorded as liabilities under accounting principles generally accepted in the U.S. Although off-balance sheet arrangements serve a variety of our business purposes, we are not dependent on these arrangements to maintain our liquidity and capital resources, and we are not aware of any circumstances that are reasonably likely to cause the off-balance sheet arrangements to have a material adverse effect on liquidity and capital resources.

We will issue stand-alone letters of credit when required by a business partner. Such letters of credit outstanding at December 31, 2016, 2015 and 2014 aggregated \$166 million, \$53 million and \$101 million. Most of the letters of credit are in support of obligations recorded in the consolidated balance sheet. For example, they are issued to counterparties to insure our payments for outstanding company debt and future abandonment liabilities.

Management's Discussion and Analysis of Environmental Matters, Litigation and Contingencies

We have incurred and may continue to incur substantial capital, operating and maintenance and remediation expenditures as a result of environmental laws and regulations. If these expenditures, as with all costs, are not ultimately reflected in the prices of our products and services, our operating results will be adversely affected. We believe that substantially all of our competitors must comply with similar environmental laws and regulations. However, the specific impact on each competitor may vary depending on a number of factors, including the age and location of its operating facilities, marketing areas and production processes.

Legislation and regulations pertaining to climate change and greenhouse gas emissions have the potential to materially adversely impact our business, financial condition, results of operations and cash flows, including costs of compliance and permitting delays. The extent and magnitude of these adverse impacts cannot be reliably or accurately estimated at this time because specific regulatory and legislative requirements have not been finalized and uncertainty exists with respect to the measures being considered, the costs and the time frames for compliance, and our ability to pass compliance costs on to our customers. For additional information see Item 1A. Risk Factors.

We accrue for environmental remediation activities when the responsibility to remediate is probable and the amount of associated costs can be reasonably estimated. As environmental remediation matters proceed toward ultimate resolution or as additional remediation obligations arise, charges in excess of those previously accrued may be required.

New or expanded environmental requirements, which could increase our environmental costs, may arise in the future. We strive to comply with all legal requirements regarding the environment, but as not all costs are fixed or presently determinable (even under existing legislation) and may be affected by future legislation or regulations, it is not possible to predict all of the ultimate costs of compliance, including remediation costs that may be incurred and penalties that may be imposed.

For more information on environmental regulations that impact us, or could impact us, see Item 1. Business – Environmental, Health and Safety Matters, Item 1A. Risk Factors and Item 3. Legal Proceedings.

Critical Accounting Estimates

The preparation of financial statements in accordance with accounting principles generally accepted in the U.S. requires us to make estimates and assumptions that affect the reported amounts of assets and liabilities and the disclosure of contingent assets and liabilities as of the date of the consolidated financial statements and the reported amounts of revenues and expenses during the respective reporting periods. Accounting estimates are considered to be critical if (1) the nature of the estimates and assumptions is material due to the levels of subjectivity and judgment necessary to account for highly uncertain matters or the susceptibility of such matters to change, and (2) the impact of the estimates and assumptions on financial condition or operating performance is material. Actual results could differ from the estimates and assumptions used.

Estimated Quantities of Net Reserves

We use the successful efforts method of accounting for our oil and gas producing activities. The successful efforts method inherently relies on the estimation of proved crude oil and condensate, NGLs, natural gas and synthetic crude oil reserves. The amount of estimated proved reserve volumes affect, among other things, whether certain costs are capitalized or expensed, the amount and timing of costs depreciated, depleted or amortized into net income and the presentation of supplemental information on oil and gas producing activities. In addition, the expected future cash flows to be generated by producing properties are used for testing impairment and the expected future taxable income available to realize deferred tax assets, also in part, rely on estimates of quantities of net reserves. Refer to the applicable sections below for further discussion of these accounting estimates.

The estimation of quantities of net reserves is a highly technical process performed by our engineers and geoscientists for crude oil and condensate, NGLs, natural gas, and synthetic crude oil, which is based upon several underlying assumptions. The reserve estimates may change as additional information becomes available and as contractual, operational, economic and political conditions change. We evaluate our reserves using drilling results, reservoir performance, seismic interpretation and future plans to develop acreage. Technologies used in proved reserves estimation includes statistical analysis of production performance, decline curve analysis, pressure and rate transient analysis, pressure gradient analysis, reservoir simulation and volumetric analysis. The observed statistical nature of production performance coupled with highly certain reservoir continuity or quality within the reliable technology areas and sufficient proved developed locations establish the reasonable certainty criteria required for booking proved reserves. The data for a given reservoir may also change over time as a result of numerous factors including, but not limited to, additional development activity, production history and continual reassessment of the viability of production under varying economic conditions.

Reserve estimates are based on an unweighted arithmetic average of commodity prices during the 12-month period, using the closing prices on the first day of each month, as defined by the SEC. The table below provides the 2016 SEC pricing for certain benchmark prices:

| | SEC Pricing 2016 | |
|--|-------------------------|-------|
| WTI Crude oil (<i>per bbl</i>) | \$ | 42.75 |
| Henry Hub natural gas (<i>per mmbtu</i>) | \$ | 2.49 |
| Brent crude oil (<i>per bbl</i>) | \$ | 43.53 |
| Mont Belvieu NGLs (<i>per bbl</i>) | \$ | 15.89 |

When determining the December 31, 2016 proved reserves for each property, the benchmark prices listed above were adjusted using price differentials that account for property-specific quality and location differences.

Estimates of future cash flows associated with proved reserves are based on actual costs of developing and producing proved reserves at the end of the year. If commodity prices were to significantly drop below average prices used to estimate 2016 proved reserves (see table above), we would expect price related reserve revisions that could have a material impact on proved reserve volumes and the present value of our proved reserves. In this scenario, our OSM proved reserves represent the largest risk to be reclassified to non-proved reserves or resource category. For further discussion of risks associated with our estimation of proved reserves, see Part I. Item 1A Risk Factors.

Depreciation and depletion of crude oil and condensate, NGLs, natural gas and synthetic crude oil producing properties is determined by the units-of-production method and could change with revisions to estimated proved reserves. While revisions of previous reserve estimates have not historically been significant to the depreciation and depletion rates of our segments, any reduction in proved reserves, could result in an acceleration of future DD&A expense. The following table illustrates, on average, the sensitivity of each segment's units-of-production DD&A per boe and pretax income to a hypothetical 10% change in 2016 proved reserves based on 2016 production.

| <i>(In millions, except per boe)</i> | Impact of a 10% Increase in Proved Reserves | | Impact of a 10% Decrease in Proved Reserves | |
|--------------------------------------|---|---------------|---|---------------|
| | DD&A per boe | Pretax Income | DD&A per boe | Pretax Income |
| North America E&P | \$ (2.04) | \$ 167 | \$ 2.50 | \$ (204) |
| International E&P | \$ (0.56) | \$ 25 | \$ 0.69 | \$ (31) |
| Oil Sands Mining | \$ (0.99) | \$ 18 | \$ 1.26 | \$ (22) |

Asset Retirement Obligations

We have material legal, regulatory and contractual obligations to remove and dismantle long-lived assets and to restore land or seabed at the end of oil and gas production operations, including bitumen mining operations. A liability equal to the fair value of such obligations and a corresponding capitalized asset retirement cost are recognized on the balance sheet in the period in which the legal obligation is incurred and a reasonable estimate of fair value can be made. The capitalized asset retirement cost is depreciated using the units-of-production method and the discounted liability is accreted over the period until the obligation is satisfied, the impacts of which are recognized as DD&A in the consolidated statements of income. In many cases, the satisfaction and subsequent discharge of these liabilities is projected to occur many years, or even decades, into the future. Furthermore, the legal, regulatory and contractual requirements often do not provide specific guidance regarding removal practices and the criteria that must be fulfilled when the removal and/or restoration event actually occurs.

Estimates of retirement costs are developed for each property based on numerous factors, such as the scope of the dismantlement, timing of settlement, interpretation of legal, regulatory and contractual requirements, type of production and processing structures, depth of water (if applicable), reservoir characteristics, depth of the reservoir, market demand for equipment, currently available dismantlement and restoration procedures and consultations with construction and engineering professionals. Inflation rates and credit-adjusted-risk-free interest rates are then applied to estimate the fair values of the obligations. To the extent these or other assumptions change after initial recognition of the liability, the fair value estimate is revised and the recognized liability adjusted, with a corresponding adjustment made to the related asset balance or income statement, as appropriate. Changes in estimated asset retirement obligations for late life assets could result in future impairment charges. See Item 8. Financial Statements and Supplementary Data – Note 18 to the consolidated financial statements for disclosures regarding our asset retirement obligation estimates.

An estimate of the sensitivity to net income if other assumptions had been used in recording these liabilities is not practical because of the number of obligations that must be assessed, the number of underlying assumptions and the wide range of possible assumptions.

Fair Value Estimates

Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. There are three approaches for measuring the fair value of assets and liabilities: the market approach, the income approach and the cost approach, each of which includes multiple valuation techniques. The market approach uses prices and other relevant information generated by market transactions involving identical or comparable assets or liabilities. The income approach uses valuation techniques to measure fair value by converting future amounts, such as cash flows or earnings, into a single present value, or range of present values, using current market expectations about those future amounts. The cost approach is based on the amount that would currently be required to replace the service capacity of an asset. This is often referred to as current replacement cost. The cost approach assumes that the fair value would not exceed what it would cost a market participant to acquire or construct a substitute asset of comparable utility, adjusted for obsolescence.

The fair value accounting standards do not prescribe which valuation technique should be used when measuring fair value and do not prioritize among the techniques. These standards establish a fair value hierarchy that prioritizes the inputs used in applying the various valuation techniques. Inputs broadly refer to the assumptions that market participants use to make pricing decisions, including assumptions about risk. Level 1 inputs are given the highest priority in the fair value hierarchy while Level 3 inputs are given the lowest priority. The three levels of the fair value hierarchy are as follows:

- Level 1 – Observable inputs that reflect unadjusted quoted prices for identical assets or liabilities in active markets as of the measurement date. Active markets are those in which transactions for the asset or liability occur in sufficient frequency and volume to provide pricing information on an ongoing basis.
- Level 2 – Observable market-based inputs or unobservable inputs that are corroborated by market data. These are inputs other than quoted prices in active markets included in Level 1, which are either directly or indirectly observable as of the measurement date.
- Level 3 – Unobservable inputs that are not corroborated by market data and may be used with internally developed methodologies that result in management’s best estimate of fair value.

Valuation techniques that maximize the use of observable inputs are favored. Assets and liabilities are classified in their entirety based on the lowest priority level of input that is significant to the fair value measurement. The assessment of the significance of a particular input to the fair value measurement requires judgment and may affect the placement of assets and liabilities within the levels of the fair value hierarchy. See Item 8. Financial Statements and Supplementary Data – Note 15 to the consolidated financial statements for disclosures regarding our fair value measurements.

Significant uses of fair value measurements include:

- impairment assessments of long-lived assets;
- impairment assessments of goodwill; and
- recorded value of derivative instruments.

The need to test long-lived assets and goodwill for impairment can be based on several indicators, including a significant reduction in prices of crude oil and condensate, NGLs, natural gas or synthetic crude oil, sustained declines in our common stock, reductions to our Capital Program, unfavorable adjustments to reserves, significant changes in the expected timing of production, other changes to contracts or changes in the regulatory environment in which the property is located.

Impairment Assessments of Long-Lived Assets

Long-lived assets in use are assessed for impairment whenever changes in facts and circumstances indicate that the carrying value of the assets may not be recoverable. For purposes of an impairment evaluation, long-lived assets must be grouped at the lowest level for which independent cash flows can be identified, which generally is field-by-field or, in certain instances, by logical grouping of assets if there is significant shared infrastructure or contractual terms that cause economic interdependency amongst separate, discrete fields. If the sum of the undiscounted estimated cash flows from the use of the asset group and its eventual disposition is less than the carrying value of an asset group, the carrying value is written down to the estimated fair value. During 2016 the sustained decline of commodity prices resulted in a downward revisions of our long-term commodity price assumptions which triggered an assessment of certain of our long-lived assets related to oil and gas producing properties for impairment. We estimated the fair values using an income approach and recognized impairments. As of the date of our last impairment assessment, our estimated undiscounted cash flows relating to our long-lived assets significantly exceeded their carrying values. Long-lived assets most at risk for future impairment (defined as those assets with estimated undiscounted cash flows that exceeded their carrying values by less than approximately 50%) had estimated undiscounted cash flows that exceeded their \$269 million carrying value by \$139 million. See Item 8. Financial Statements and Supplementary Data Note 13 and Note 15 to the consolidated financial statements for discussion of impairments recorded in 2016, 2015 and 2014 and the related fair value measurements.

Fair value calculated for the purpose of testing our long-lived assets for impairment is estimated using the present value of expected future cash flows method and comparative market prices when appropriate. Significant judgment is involved in performing these fair value estimates since the results are based on forecasted assumptions. Significant assumptions include:

- **Future crude oil and condensate, NGLs, natural gas and synthetic crude oil prices.** Our estimates of future prices are based on our analysis of market supply and demand and consideration of market price indicators. Although these commodity prices may experience extreme volatility in any given year, we believe long-term industry prices are driven by global market supply and demand. To estimate supply, we consider numerous factors, including the worldwide resource base, depletion rates and OPEC production policies. We believe demand is largely driven by global economic factors, such as population and income growth, governmental policies and vehicle stocks. The prices we use in our fair value estimates are consistent with those used in our planning and capital investment reviews. There has been significant volatility in crude oil and condensate, NGLs, natural gas and synthetic crude oil prices and estimates of such future prices are inherently imprecise. See Item 1A. Risk Factors for further discussion on commodity prices.
- **Estimated quantities of crude oil and condensate, NGLs, natural gas and synthetic crude oil.** Such quantities are based on a combination of proved reserves and risk-weighted probable reserves and resources such that the combined volumes represent the most likely expectation of recovery. See Item 1A. Risk Factors for further discussion on reserves.
- **Expected timing of production.** Production forecasts are the outcome of engineer studies which estimate reserves, as well as expected capital development programs. The actual timing of the production could be different than the projection. Cash flows realized later in the projection period are less valuable than those realized earlier due to the time value of money. The expected timing of production that we use in our fair value estimates is consistent with that used in our planning and capital investment reviews.
- **Discount rate commensurate with the risks involved.** We apply a discount rate to our expected cash flows based on a variety of factors, including market and economic conditions, operational risk, regulatory risk and political risk. A higher discount rate decreases the net present value of cash flows.
- **Future capital requirements.** Our estimates of future capital requirements are based upon a combination of authorized spending and internal forecasts.

We base our fair value estimates on projected financial information which we believe to be reasonably likely to occur. An estimate of the sensitivity to changes in assumptions in our undiscounted cash flow calculations is not practicable, given the numerous assumptions (e.g. reserves, pace and timing of development plans, commodity prices, capital expenditures, operating costs, drilling and development costs, inflation and discount rates) that can materially affect our estimates. Unfavorable adjustments to some of the above listed assumptions would likely be offset by favorable adjustments in other assumptions. For example, the impact of sustained reduced commodity prices on future undiscounted cash flows would likely be partially offset by lower costs.

Impairment Assessments of Goodwill

Goodwill must be tested for impairment at least annually, or between annual tests if an event occurs or circumstances change that would more likely than not reduce the fair value of a reporting unit below its carrying amount. Goodwill is tested for impairment at the reporting unit level. We performed our annual impairment test in April 2016 for the International E&P reporting unit and no impairment was required. Based on the results of these assessments, we fully impaired the goodwill associated with our North America E&P reporting unit. As of the date of our last goodwill impairment assessment, our International E&P reporting unit fair value exceeded its book value of \$115 million by 26%.

We estimate the fair values of the International E&P reporting unit using a combination of market and income approaches. Determining the fair value of a reporting unit requires judgment and the use of significant estimates and assumptions. The market approach referenced observable inputs specific to us and our industry. The income approach calculated the present value of expected future cash flows, which were based on forecasted assumptions. Key assumptions to the income approach are the same as those described above regarding our impairment assessment of long-lived assets. We believe the estimates and assumptions used in our impairment assessments are reasonable and based on available market information, but variations in such assumptions could result in materially different calculations of fair value and determinations of whether or not an impairment is indicated. See Item 8. Financial Statements and Supplementary Data Note 14 to the consolidated financial statements for additional discussion of goodwill.

Derivatives

We record all derivative instruments at fair value. Fair value measurements for all our derivative instruments are based on observable market-based inputs that are corroborated by market data and are discussed in Item 8. Financial Statements and Supplementary Data – Note 15 to the consolidated financial statements. Additional information about derivatives and their valuation may be found in Item 7A. Quantitative and Qualitative Disclosures About Market Risk.

Income Taxes

We are subject to income taxes in numerous taxing jurisdictions worldwide. Estimates of income taxes to be recorded involve interpretation of complex tax laws and assessment of the effects of foreign taxes on our U.S. federal income taxes.

We have recorded deferred tax assets and liabilities for temporary differences between book basis and tax basis, tax credit carryforwards and operating loss carryforwards. We routinely assess the realizability of our deferred tax assets and reduce such assets by a valuation allowance if it is more likely than not that some portion or all of the deferred tax assets will not be realized. In assessing the need for additional or adjustments to existing valuation allowances, we consider the preponderance of evidence concerning the realization of the deferred tax asset. We must consider any prudent and feasible tax planning strategies that might minimize the amount of deferred tax liabilities recognized or the amount of any valuation allowance recognized against deferred tax assets, if we can implement the strategies and if we expect to implement them in the event the forecasted conditions actually occur. This assessment requires analysis of all available positive and negative evidence. Positive evidence includes reversals of temporary differences, forecasts of future taxable income, assessment of future business assumptions and applicable tax planning strategies. Negative evidence includes losses in recent years as well as the forecasts of future income (loss) in the realizable period.

We expect to be in a cumulative loss position in early 2017, which constitutes significant objective negative evidence as to the future realizability of the value of our deferred tax assets. As a result, we are limited in our ability to consider forecasts for taxable income in future years in connection with our assessment of the realizability of our foreign tax credits and other federal deferred tax assets. Additionally, we considered the reversals of existing deferred tax assets and liabilities related to temporary differences between the book and tax basis of our assets and liabilities and concluded that it is more likely than not that a portion of our deferred tax assets would not be realized. Therefore, we increased our valuation allowance on our federal deferred tax assets by \$1,346 million in 2016. Our remaining U.S. operating loss carryforwards of \$1.8 billion, which expire in 2035 and 2036, represent the federal deferred tax asset most at risk for an additional valuation allowance at December 31, 2016. See further detail in Item 8. Financial Statements and Supplementary Data - Note 9 to the consolidated financial statements.

We base our future taxable income estimates on projected financial information which we believe to be reasonably likely to occur. Numerous judgments and assumptions are inherent in the estimation of future taxable income, including factors such as future operating conditions and the assessment of the effects of foreign taxes on our U.S. federal income taxes. Future operating conditions can be affected by numerous factors, including (i) future crude oil and condensate, NGLs, natural gas and synthetic crude oil prices, (ii) estimated quantities of crude oil and condensate, NGLs, natural gas and synthetic crude oil, (iii) expected timing of production, and (iv) future capital requirements. These assumptions are described in further detail above regarding our impairment assessment of long-lived assets, see above for further detail describing these assumptions. An estimate of the sensitivity to changes in assumptions resulting in future taxable income calculations is not practicable, given the numerous assumptions that can materially affect our estimates. Unfavorable adjustments to some of the above listed assumptions would likely be offset by favorable adjustments in other assumptions. For example, the impact of sustained reduced commodity prices on future taxable income would likely be partially offset by lower costs.

Pension and Other Postretirement Benefit Obligations

Accounting for pension and other postretirement benefit obligations involves numerous assumptions, the most significant of which relate to the following:

- the discount rate for measuring the present value of future plan obligations;
- the expected long-term return on plan assets;
- the rate of future increases in compensation levels; and
- health care cost projections.

We develop our demographics and utilize the work of third-party actuaries to assist in the measurement of these obligations. We have selected different discount rates for our U.S. pension plans and our other U.S. postretirement benefit plans due to the different projected benefit payment patterns. In determining the assumed discount rates, our methods include a review of market yields on high-quality corporate debt and use of our third-party actuary's discount rate model. This model calculates an equivalent single discount rate for the projected benefit plan cash flows using a yield curve derived from bond yields. The yield curve represents a series of annualized individual spot discount rates from 0.5 to 99 years. The bonds used are rated AA or higher by a recognized rating agency, only non-callable bonds are included and outlier bonds (bonds that have a yield to maturity that significantly deviates from the average yield within each maturity grouping) are removed. Each issue is required to have at least \$250 million par value outstanding. The constructed yield curve is based on those bonds representing the 50% highest yielding issuances within each defined maturity group.

Of the assumptions used to measure obligations and estimated annual net periodic benefit cost as of December 31, the discount rate has the most significant effect on the periodic benefit cost reported for the plans. The hypothetical impacts of a

0.25% change in the discount rates of 4.02% for our U.S. pension plans and 3.98% for our other U.S. postretirement benefit plans is summarized in the table below:

| <i>(In millions)</i> | Impact of a 0.25% Increase in Discount Rate | | Impact of a 0.25% Decrease in Discount Rate | |
|---|--|----------------|--|----------------|
| | Obligation | Expense | Obligation | Expense |
| U.S. pension plans | \$ (5) | \$ — | \$ 6 | \$ — |
| Other U.S. postretirement benefit plans | \$ (5) | \$ — | \$ 5 | \$ — |

The asset rate of return assumption for the funded U.S. plan considers the plan's asset mix (currently targeted at approximately 55% equity and 45% other fixed income securities), past performance and other factors. Certain components of the asset mix are modeled with various assumptions regarding inflation, debt returns and stock yields. Decreasing the 6.75% asset rate of return assumption by 0.25% would not have a significant impact on our defined benefit pension expense.

Compensation change assumptions are based on historical experience, anticipated future management actions and demographics of the benefit plans. Health care cost trend assumptions are developed based on historical cost data, the near-term outlook and an assessment of likely long-term trends.

Item 8. Financial Statements and Supplementary Data – Note 20 to the consolidated financial statements includes detailed information about the assumptions used to calculate the components of our annual defined benefit pension and other postretirement plan expense, as well as the obligations and accumulated other comprehensive income reported on the consolidated balance sheets.

Contingent Liabilities

We accrue contingent liabilities for environmental remediation, tax deficiencies related to operating taxes, as well as tax disputes and litigation claims when such contingencies are probable and estimable. Actual costs can differ from estimates for many reasons. For instance, settlement costs for claims and litigation can vary from estimates based on differing interpretations of laws, opinions on responsibility and assessments of the amount of damages. Similarly, liabilities for environmental remediation may vary from estimates because of changes in laws, regulations and their interpretation, additional information on the extent and nature of site contamination and improvements in technology. Our in-house legal counsel regularly assesses these contingent liabilities. In certain circumstances outside legal counsel is utilized.

We generally record losses related to these types of contingencies as other operating expense or general and administrative expense in the consolidated statements of income, except for tax contingencies unrelated to income taxes, which are recorded as taxes other than income. For additional information on contingent liabilities, see Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations – Management's Discussion and Analysis of Environmental Matters, Litigation and Contingencies.

An estimate of the sensitivity to net income if other assumptions had been used in recording these liabilities is not practical because of the number of contingencies that must be assessed, the number of underlying assumptions and the wide range of reasonably possible outcomes, in terms of both the probability of loss and the estimates of such loss.

Accounting Standards Not Yet Adopted

See Item 8. Financial Statements and Supplementary Data – Note 2 to the consolidated financial statements.

Item 7A. Quantitative and Qualitative Disclosures About Market Risk

We are exposed to market risks related to the volatility of crude oil and condensate, NGLs, natural gas and synthetic crude oil prices as the volatility of these prices continues to impact our industry. We expect commodity prices to remain volatile and unpredictable in the future. We are also exposed to market risks related to changes in interest rates and foreign currency exchange rates. We employ various strategies, including the use of financial derivative instruments, to manage the risks related to these fluctuations. We are at risk for changes in the fair value of all of our derivative instruments; however, such risk should be mitigated by price or rate changes related to the underlying commodity or financial transaction. While the use of derivative instruments could materially affect our results of operations in particular quarterly or annual periods, we believe that the use of these instruments will not have a material adverse effect on our financial position or liquidity.

See Item 8. Financial Statements and Supplementary Data – Notes 15 and 16 to the consolidated financial statements for more information about the fair value measurement of our derivatives, the amounts recorded in our consolidated balance sheets and statements of income and the related notional amounts.

Commodity Price Risk

Our strategy is to obtain competitive prices for our products and allow operating results to reflect market price movements dictated by supply and demand. However, management will periodically protect prices on forecasted sales to support cash flow and liquidity, as deemed appropriate. We may use a variety of commodity derivative instruments, including futures, forwards, swaps and combinations of options, as part of an overall program to manage commodity price risk in our business. Our consolidated results for 2016 and 2015 were impacted by crude oil and natural gas derivatives related to a portion of our forecasted North America E&P sales. The table below provides a summary of open positions as of December 31, 2016 and the weighted average price for those contracts:

| | <i>Crude Oil</i> ^(a) | | | |
|--|---------------------------------|----------------|---------------|----------------|
| | 2017 | | | |
| | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| <i>Three-Way Collars</i> ^(b) | | | | |
| Volume (Bbls/day) | 50,000 | 50,000 | 30,000 | 30,000 |
| Price per Bbl: | | | | |
| Ceiling | \$58.42 | \$58.42 | \$59.60 | \$59.60 |
| Floor | \$50.30 | \$50.30 | \$54.00 | \$54.00 |
| Sold put | \$43.50 | \$43.50 | \$47.00 | \$47.00 |
| <i>Sold Call Options</i> ^(c) | | | | |
| Volume (Bbls/day) | 35,000 | 35,000 | 35,000 | 35,000 |
| Price per Bbl | \$61.91 | \$61.91 | \$61.91 | \$61.91 |

^(a) Subsequent to December 31, 2016, we entered into 10,000 Bbls/day of fixed-price swaps with a weighted average price of \$54.00 indexed to WTI for February - March of 2017.

^(b) Subsequent to December 31, 2016, we entered into 20,000 Bbls/day of three-way collars for July - December of 2017 with a ceiling price of \$61.52, a floor price of \$56.00, and a sold put price of \$49.00.

^(c) Call options settle monthly.

Natural Gas

| | 2017 | | | | 2018 |
|---|------------------|-------------------|------------------|-------------------|--------|
| | First Quarter | Second Quarter | Third Quarter | Fourth Quarter | |
| Three-Way Collars ^(a) | | | | | |
| Volume (MMBtu/day) | 60,000 | 90,000 | 90,000 | 90,000 | 20,000 |
| Price per MMBtu | | | | | |
| Ceiling | \$3.46 | \$3.54 | \$3.54 | \$3.61 | \$3.56 |
| Floor | \$2.84 | \$3.01 | \$3.01 | \$3.04 | \$3.00 |
| Sold put | \$2.35 | \$2.48 | \$2.48 | \$2.52 | \$2.50 |
| Swap | | | | | |
| Volume (MMBtu/day) | 20,000 | 20,000 | 20,000 | 20,000 | — |
| Price per MMBtu | 2.93 | 2.93 | 2.93 | 2.93 | — |

^(a) Subsequent to December 31, 2016, we entered into three-way collars of 30,000 MMBtus/day for April - September of 2017 with a ceiling price of \$3.70, a floor price of \$3.35, and a sold put price of \$2.75; 30,000 MMBtus/day for October - December of 2017 with a ceiling price of \$4.00, a floor price of \$3.45, and a sold put price of \$2.85; and 70,000 MMBtus/day for January - December of 2018 with a ceiling price of \$3.62, a floor price of \$3.00, and a sold put price of \$2.50.

The following table provides a sensitivity analysis of the projected incremental effect on income (loss) from operations of a hypothetical 10% change in NYMEX WTI and Henry Hub prices on our open commodity derivative instruments as of December 31, 2016:

| <i>(In millions)</i> | Hypothetical Price Increase of 10% | Hypothetical Price Decrease of 10% |
|-------------------------|---------------------------------------|---------------------------------------|
| Crude oil derivatives | (79) | 56 |
| Natural gas derivatives | (11) | 13 |
| Total | (90) | 69 |

Interest Rate Risk

At December 31, 2016, our portfolio of long-term debt was substantially comprised of fixed rate instruments. We currently manage our exposure to interest rate movements by utilizing interest rate swap agreements that effectively convert a portion of our fixed rate debt to floating interest rate debt. As of December 31, 2016, we had multiple interest rate swap agreements with a total notional of \$900 million designated as fair value hedges. We additionally use forward starting interest rate swaps to manage our risk of interest rate changes during the period prior to anticipated borrowings. As of December 31, 2016, we had multiple forward starting interest rate swap agreements with a total notional of \$750 million designated as cash flow hedges.

Our sensitivity to interest rate movements and corresponding changes in the fair value of our fixed rate debt portfolio affects our results of operations and cash flows only when we elect to repurchase or otherwise retire fixed-rate debt at prices different than carrying value. Sensitivity analysis of the incremental effect of a hypothetical 10% decrease in interest rates on financial assets and liabilities as of December 31, 2016, is provided in the following table.

| <i>(In millions)</i> | Fair Value | Incremental Change in Fair Value |
|---|------------------------------|--|
| Financial assets (liabilities): ^(a) | | |
| Interest rate cash flow hedges | 64 ^(b) | (16) |
| Interest rate fair value hedges | \$ 4 ^(b) | \$ 1 |
| Long-term debt, including amounts due within one year | \$ (7,449) ^{(b)(c)} | \$ (265) |

^(a) Fair values of cash and cash equivalents, receivables, accounts payable and accrued interest approximate carrying value and are relatively insensitive to changes in interest rates due to the short-term maturity of the instruments. Accordingly, these instruments are excluded from the table.

^(b) Fair value was based on market prices where available, or current borrowing rates for financings with similar terms and maturities.

^(c) Excludes capital leases.

Counterparty Risk

We are also exposed to financial risk in the event of nonperformance by counterparties. If commodity prices continue to remain low, some of our counterparties may experience liquidity problems and may not be able to meet their financial obligations to us. We review the creditworthiness of counterparties and use master netting agreements when appropriate.

Item 8. Financial Statements and Supplementary Data

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Management's Responsibilities for Financial Statements

To the Stockholders of Marathon Oil Corporation:

The accompanying consolidated financial statements of Marathon Oil Corporation and its consolidated subsidiaries ("Marathon Oil") are the responsibility of management and have been prepared in conformity with accounting principles generally accepted in the United States. They necessarily include some amounts that are based on best judgments and estimates. The financial information displayed in other sections of this Annual Report on Form 10-K is consistent with these consolidated financial statements.

Marathon Oil seeks to assure the objectivity and integrity of its financial records by careful selection of its managers, by organization arrangements that provide an appropriate division of responsibility and by communications programs aimed at assuring that its policies and methods are understood throughout the organization.

The Board of Directors pursues its oversight role in the area of financial reporting and internal control over financial reporting through its Audit and Finance Committee. This Committee, composed solely of independent directors, regularly meets (jointly and separately) with the independent registered public accounting firm, management and internal auditors to monitor the proper discharge by each of their responsibilities relative to internal accounting controls and the consolidated financial statements.

/s/ Lee M. Tillman

President and Chief Executive Officer

/s/ Patrick J. Wagner

*Interim Chief Financial Officer and Vice President-
Corporate Development and Strategy*

Management's Report on Internal Control over Financial Reporting

To the Stockholders of Marathon Oil Corporation:

Marathon Oil's management is responsible for establishing and maintaining adequate internal control over financial reporting (as defined in Rules 13(a) – 15(f) under the Securities Exchange Act of 1934). Our internal control over financial reporting is designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of the consolidated financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements and even when determined to be effective, can only provide 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 changes in conditions or that the degree of compliance with the policies or procedures may deteriorate.

An evaluation of the design and effectiveness of our internal control over financial reporting, based on the 2013 framework in *Internal Control – Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission, was conducted under the supervision and with the participation of management, including our Chief Executive Officer and Chief Financial Officer. Based on the results of this evaluation, Marathon Oil's management concluded that its internal control over financial reporting was effective as of December 31, 2016.

The effectiveness of Marathon Oil's internal control over financial reporting as of December 31, 2016 has been audited by PricewaterhouseCoopers LLP, an independent registered public accounting firm, as stated in their report which is included herein.

/s/ Lee M. Tillman

President and Chief Executive Officer

/s/ Patrick J. Wagner

*Interim Chief Financial Officer and Vice President-
Corporate Development and Strategy*

Report of Independent Registered Public Accounting Firm

To the Stockholders of Marathon Oil Corporation:

In our opinion, the consolidated financial statements listed in the accompanying index present fairly, in all material respects, the financial position of Marathon Oil Corporation and its subsidiaries (the "Company") at December 31, 2016 and 2015, and the results of their operations and their cash flows for each of the three years in the period ended December 31, 2016, in conformity with accounting principles generally accepted in the United States of America. Also in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2016, based on criteria established in *Internal Control - Integrated Framework - 2013* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). The Company's management is responsible for these financial statements, 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 opinions on these financial statements and on the Company's internal control over financial reporting based on our integrated audits. We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the financial statements are free of material misstatement and whether effective internal control over financial reporting was maintained in all material respects. Our audits of the financial statements included examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, and evaluating the overall financial statement presentation. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

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 (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 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/ PricewaterhouseCoopers LLP

Houston, Texas
February 24, 2017

MARATHON OIL CORPORATION
Consolidated Statements of Income

Year Ended December 31,

| <i>(In millions, except per share data)</i> | 2016 | 2015 | 2014 |
|---|------------|------------|----------|
| Revenues and other income: | | | |
| Sales and other operating revenues, including related party | \$ 3,753 | \$ 4,951 | \$ 8,736 |
| Marketing revenues | 278 | 571 | 2,110 |
| Income from equity method investments | 175 | 145 | 424 |
| Net gain (loss) on disposal of assets | 389 | 120 | (90) |
| Other income | 55 | 74 | 78 |
| Total revenues and other income | 4,650 | 5,861 | 11,258 |
| Costs and expenses: | | | |
| Production | 1,313 | 1,694 | 2,246 |
| Marketing, including purchases from related parties | 282 | 569 | 2,105 |
| Other operating | 511 | 438 | 462 |
| Exploration | 330 | 1,318 | 793 |
| Depreciation, depletion and amortization | 2,395 | 2,957 | 2,861 |
| Impairments | 67 | 752 | 132 |
| Taxes other than income | 168 | 234 | 406 |
| General and administrative | 484 | 590 | 654 |
| Total costs and expenses | 5,550 | 8,552 | 9,659 |
| Income (loss) from operations | (900) | (2,691) | 1,599 |
| Net interest and other | (335) | (267) | (238) |
| Income (loss) from continuing operations before income taxes | (1,235) | (2,958) | 1,361 |
| Provision (benefit) for income taxes | 905 | (754) | 392 |
| Income (loss) from continuing operations | (2,140) | (2,204) | 969 |
| Discontinued operations | — | — | 2,077 |
| Net income (loss) | \$ (2,140) | \$ (2,204) | \$ 3,046 |
| Per Share Data | | | |
| Basic: | | | |
| Income (loss) from continuing operations | \$ (2.61) | \$ (3.26) | \$ 1.42 |
| Discontinued operations | \$ — | \$ — | \$ 3.06 |
| Net income (loss) | \$ (2.61) | \$ (3.26) | \$ 4.48 |
| Diluted: | | | |
| Income (loss) from continuing operations | \$ (2.61) | \$ (3.26) | \$ 1.42 |
| Discontinued operations | \$ — | \$ — | \$ 3.04 |
| Net income (loss) | \$ (2.61) | \$ (3.26) | \$ 4.46 |
| Dividends | \$ 0.20 | \$ 0.68 | \$ 0.80 |
| Weighted average shares: | | | |
| Basic | 819 | 677 | 680 |
| Diluted | 819 | 677 | 683 |

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

MARATHON OIL CORPORATION
Consolidated Statements of Comprehensive Income

| <i>(In millions)</i> | Year Ended December 31, | | |
|---|--------------------------------|-------------|-------------|
| | 2016 | 2015 | 2014 |
| Net income (loss) | \$ (2,140) | \$ (2,204) | \$ 3,046 |
| Other comprehensive income (loss) | | | |
| Postretirement and postemployment plans | | | |
| Change in actuarial loss and other | 16 | 228 | (52) |
| Income tax benefit (provision) | (4) | (86) | 25 |
| Postretirement and postemployment plans, net of tax | 12 | 142 | (27) |
| Derivative hedges | | | |
| Net unrecognized gain | 61 | — | 1 |
| Income tax provision | (22) | — | — |
| Derivative hedges, net of tax | 39 | — | 1 |
| Other, net of tax | 1 | — | (1) |
| Other comprehensive income (loss) | 52 | 142 | (27) |
| Comprehensive income (loss) | \$ (2,088) | \$ (2,062) | \$ 3,019 |

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

MARATHON OIL CORPORATION
Consolidated Balance Sheets

| <i>(In millions, except par values and share amounts)</i> | December 31, | |
|---|---------------------|-------------|
| | 2016 | 2015 |
| Assets | | |
| Current assets: | | |
| Cash and cash equivalents | \$ 2,490 | \$ 1,221 |
| Receivables, less reserve of \$6 and \$4 | 877 | 912 |
| Inventories | 227 | 313 |
| Other current assets | 71 | 144 |
| Total current assets | 3,665 | 2,590 |
| Equity method investments | 931 | 1,003 |
| Property, plant and equipment, less accumulated depreciation, depletion and amortization of \$22,214 and \$23,260 | 25,718 | 27,061 |
| Goodwill | 115 | 115 |
| Other noncurrent assets | 665 | 1,542 |
| Total assets | \$ 31,094 | \$ 32,311 |
| Liabilities | | |
| Current liabilities: | | |
| Accounts payable | 1,078 | 1,313 |
| Payroll and benefits payable | 129 | 133 |
| Accrued taxes | 94 | 132 |
| Other current liabilities | 253 | 150 |
| Long-term debt due within one year | 686 | 1 |
| Total current liabilities | 2,240 | 1,729 |
| Long-term debt | 6,589 | 7,276 |
| Deferred tax liabilities | 2,438 | 2,441 |
| Defined benefit postretirement plan obligations | 345 | 403 |
| Asset retirement obligations | 1,697 | 1,601 |
| Deferred credits and other liabilities | 244 | 308 |
| Total liabilities | 13,553 | 13,758 |
| Commitments and contingencies | | |
| Stockholders' Equity | | |
| Preferred stock - no shares issued or outstanding (no par value, 26 million shares authorized) | — | — |
| Common stock: | | |
| Issued – 937 million and 770 million shares, respectively (par value \$1 per share, 1.1 billion shares authorized) | 937 | 770 |
| Securities exchangeable into common stock – no shares issued or outstanding (no par value, 29 million shares authorized) | — | — |
| Held in treasury, at cost – 90 million and 93 million shares | (3,431) | (3,554) |
| Additional paid-in capital | 7,446 | 6,498 |
| Retained earnings | 12,672 | 14,974 |
| Accumulated other comprehensive loss | (83) | (135) |
| Total stockholders' equity | 17,541 | 18,553 |
| Total liabilities and stockholders' equity | \$ 31,094 | \$ 32,311 |

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

MARATHON OIL CORPORATION
Consolidated Statements of Cash Flows

| <i>(In millions)</i> | Year Ended December 31, | | |
|--|--------------------------------|-----------------|-----------------|
| | 2016 | 2015 | 2014 |
| Increase (decrease) in cash and cash equivalents | | | |
| Operating activities: | | | |
| Net income (loss) | \$ (2,140) | \$ (2,204) | \$ 3,046 |
| Adjustments to reconcile net income (loss) to net cash provided by operating activities: | | | |
| Discontinued operations | — | — | (2,077) |
| Depreciation, depletion and amortization | 2,395 | 2,957 | 2,861 |
| Impairments | 67 | 752 | 132 |
| Exploratory dry well costs and unproved property impairments | 227 | 1,214 | 623 |
| Net (gain) loss on disposal of assets | (389) | (120) | 90 |
| Deferred income taxes | 811 | (806) | 88 |
| Net (gain) loss on derivative instruments | 63 | (126) | (4) |
| Net cash received (paid) in settlement of derivative instruments | 61 | 55 | (5) |
| Pension and other postretirement benefits, net | (3) | 1 | (34) |
| Stock based compensation | 48 | 44 | 52 |
| Equity method investments, net | 17 | 33 | 27 |
| Changes in: | | | |
| Current receivables | 50 | 817 | 119 |
| Inventories | 75 | 36 | (11) |
| Current accounts payable and accrued liabilities | (133) | (965) | (33) |
| All other operating, net | (76) | (123) | (138) |
| Net cash provided by continuing operations | <u>1,073</u> | <u>1,565</u> | <u>4,736</u> |
| Net cash provided by discontinued operations | — | — | 751 |
| Net cash provided by operating activities | <u>1,073</u> | <u>1,565</u> | <u>5,487</u> |
| Investing activities: | | | |
| Additions to property, plant and equipment | (1,245) | (3,476) | (5,160) |
| Acquisitions, net of cash acquired | (902) | — | (21) |
| Disposal of assets | 1,219 | 225 | 3,760 |
| Equity method investments - return of capital | 55 | 77 | 61 |
| Investing activities of discontinued operations | — | — | (376) |
| Purchases of short term investments | — | (925) | — |
| Maturities of short term investments | — | 925 | — |
| All other investing, net | (1) | (28) | (10) |
| Net cash used in investing activities | <u>(874)</u> | <u>(3,202)</u> | <u>(1,746)</u> |
| Financing activities: | | | |
| Borrowings | — | 1,996 | — |
| Debt repayments | (1) | (1,069) | (68) |
| Purchases of common stock | — | — | (1,000) |
| Issuance of common stock | 1,236 | — | — |
| Dividends paid | (162) | (460) | (543) |
| All other financing, net | 1 | (5) | 18 |
| Net cash provided by (used in) financing activities | <u>1,074</u> | <u>462</u> | <u>(1,593)</u> |
| Effect of exchange rate changes on cash: | | | |
| Continuing operations | (4) | (2) | (2) |
| Discontinued operations | — | — | (12) |
| Net increase (decrease) in cash and cash equivalents | <u>1,269</u> | <u>(1,177)</u> | <u>2,134</u> |
| Cash and cash equivalents at beginning of period | <u>1,221</u> | <u>2,398</u> | <u>264</u> |
| Cash and cash equivalents at end of period | <u>\$ 2,490</u> | <u>\$ 1,221</u> | <u>\$ 2,398</u> |

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

MARATHON OIL CORPORATION
Consolidated Statements of Stockholders' Equity

| Total Equity of Marathon Oil Stockholders | | | | | | | | |
|---|--------------------|-----------------|--|-------------------|----------------------------------|----------------------|---|-----------------|
| <i>(In millions)</i> | Preferred Stock | Common Stock | Securities Exchangeable into Common Stock | Treasury Stock | Additional Paid-in Capital | Retained Earnings | Accumulated Other Comprehensive Loss | Total Equity |
| December 31, 2013 Balance | \$ — | \$ 770 | \$ — | \$ (2,903) | \$ 6,592 | \$ 15,135 | \$ (250) | \$ 19,344 |
| Shares issued - stock-based compensation | — | — | — | 276 | (57) | — | — | 219 |
| Shares repurchased | — | — | — | (1,015) | — | — | — | (1,015) |
| Stock-based compensation | — | — | — | — | (4) | — | — | (4) |
| Net income | — | — | — | — | — | 3,046 | — | 3,046 |
| Other comprehensive loss | — | — | — | — | — | — | (27) | (27) |
| Dividends paid | — | — | — | — | — | (543) | — | (543) |
| December 31, 2014 Balance | \$ — | \$ 770 | \$ — | \$ (3,642) | \$ 6,531 | \$ 17,638 | \$ (277) | \$ 21,020 |
| Shares issued - stock-based compensation | — | — | — | 96 | (32) | — | — | 64 |
| Shares repurchased | — | — | — | (8) | — | — | — | (8) |
| Stock-based compensation | — | — | — | — | (1) | — | — | (1) |
| Net income | — | — | — | — | — | (2,204) | — | (2,204) |
| Other comprehensive income | — | — | — | — | — | — | 142 | 142 |
| Dividends paid | — | — | — | — | — | (460) | — | (460) |
| December 31, 2015 Balance | \$ — | \$ 770 | \$ — | \$ (3,554) | \$ 6,498 | \$ 14,974 | \$ (135) | \$ 18,553 |
| Shares issued - stock-based compensation | — | — | — | 128 | (86) | — | — | 42 |
| Shares repurchased | — | — | — | (5) | — | — | — | (5) |
| Stock-based compensation | — | — | — | — | (35) | — | — | (35) |
| Net loss | — | — | — | — | — | (2,140) | — | (2,140) |
| Other comprehensive income | — | — | — | — | — | — | 52 | 52 |
| Dividends paid | — | — | — | — | — | (162) | — | (162) |
| Common stock issuance | — | 167 | — | — | 1,069 | — | — | 1,236 |
| December 31, 2016 Balance | \$ — | \$ 937 | \$ — | \$ (3,431) | \$ 7,446 | \$ 12,672 | \$ (83) | \$ 17,541 |

| <i>(Shares in millions)</i> | Preferred Stock | Common Stock | Securities Exchangeable into Common Stock | Treasury Stock |
|--|--------------------|-----------------|--|-------------------|
| December 31, 2013 Balance | — | 770 | — | 73 |
| Shares issued - stock-based compensation | — | — | — | (7) |
| Shares repurchased | — | — | — | 29 |
| December 31, 2014 Balance | — | 770 | — | 95 |
| Shares issued - stock-based compensation | — | — | — | (2) |
| Shares repurchased | — | — | — | — |
| December 31, 2015 Balance | — | 770 | — | 93 |
| Shares issued - stock-based compensation | — | — | — | (3) |
| Shares repurchased | — | — | — | — |
| Common stock issuance | — | 167 | — | — |
| December 31, 2016 Balance | — | 937 | — | 90 |

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

MARATHON OIL CORPORATION
Notes to Consolidated Financial Statements

1. Summary of Principal Accounting Policies

We are a global energy company engaged in exploration, production and marketing of crude oil and condensate, NGLs and natural gas; as well as production and marketing of products manufactured from natural gas, such as LNG and methanol, in E.G.; and oil sands mining, bitumen transportation and upgrading, and marketing of synthetic crude oil and vacuum gas oil in Canada.

Basis of presentation and principles applied in consolidation – These consolidated financial statements include the accounts of our majority-owned, controlled subsidiaries. Investments in unincorporated joint ventures and undivided interests in certain operating assets are consolidated on a pro rata basis.

Equity method investments – Investments in entities over which we have significant influence, but not control, are accounted for using the equity method of accounting. This includes entities in which we hold majority ownership but the minority stockholders have substantive participating rights in the investee. Income from equity method investments represents our proportionate share of net income generated by the equity method investees and is reflected in revenue and other income in our consolidated statements of income. Equity method investments are included as noncurrent assets on the consolidated balance sheet.

Equity method investments are assessed for impairment whenever changes in the facts and circumstances indicate a loss in value has occurred, if the loss is deemed to be other than temporary. When the loss is deemed to be other than temporary, the carrying value of the equity method investment is written down to fair value, and the amount of the write-down is included in income. Differences in the basis of the investments and the separate net asset value of the investees, if any, are amortized into income over the remaining useful lives of the underlying assets, except for the excess related to goodwill.

Reclassifications – We have reclassified certain prior year amounts between operating cash flow categories to present it on a basis comparable with the current year's presentation with no impact on net cash provided by operating activities.

Discontinued operations – Disclosures in this report related to results of operations and cash flows are presented on the basis of continuing operations unless otherwise stated. As a result of the sale of our Angola assets and our Norway business in 2014 (see Note 6), these businesses are reflected as discontinued operations.

Use of estimates – The preparation of financial statements in accordance with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and the disclosure of contingent assets and liabilities as of the date of the consolidated financial statements and the reported amounts of revenues and expenses during the respective reporting periods.

Foreign currency transactions – The U.S. dollar is the functional currency of our foreign operating subsidiaries. Foreign currency transaction gains and losses are included in net income.

Revenue recognition – Revenues are recognized when products are shipped or services are provided to customers, title is transferred, the sales price is fixed or determinable and collectability is reasonably assured. We follow the sales method of accounting for crude oil and natural gas production imbalances and would recognize a liability if our existing proved reserves were not adequate to cover an imbalance. Imbalances have not been significant in the periods presented.

In the lower 48 states of the U.S., production volumes of crude oil and condensate, NGLs and natural gas are generally sold immediately and transported to market. In international locations, liquid hydrocarbon production volumes may be stored as inventory and sold at a later time. In Canada, mined bitumen is first processed through an upgrader and then sold as synthetic crude oil.

Cash and cash equivalents – Cash and cash equivalents include cash on hand and on deposit and investments in highly liquid debt instruments with original maturities of three months or less.

Short-term Investments - Our short-term investments are comprised of bank time deposits with original maturities of greater than three months but less than twelve months. They are classified as held-to-maturity investments, which are recorded at amortized cost.

Accounts receivable – The majority of our receivables are from joint interest owners in properties we operate or from purchasers of commodities, both of which are recorded at invoiced amounts and do not bear interest. We often have the ability to withhold future revenue disbursements to recover any non-payment of joint interest billings. We conduct credit reviews of commodity purchasers prior to making commodity sales to new customers or increasing credit for existing customers. Based on these reviews, we may require a standby letter of credit or a financial guarantee. Uncollectible accounts receivable are

MARATHON OIL CORPORATION
Notes to Consolidated Financial Statements

reserved against the allowance for uncollectible accounts when it is determined the receivable will not be collected and the amount of any reserve may be reasonably estimated.

Inventories – Crude oil, natural gas and bitumen are recorded at weighted average cost and carried at the lower of cost or market value. Supplies and other items consist principally of tubular goods and equipment which are valued at weighted average cost and reviewed periodically for obsolescence or impairment when market conditions indicate.

We may enter into a contract to sell a particular quantity and quality of crude oil at a specified location and date to a particular counterparty, and simultaneously agree to buy a particular quantity and quality of the same commodity at a specified location on the same or another specified date from the same counterparty. We account for such matching buy/sell arrangements as exchanges of inventory.

Derivative instruments – We may use derivatives to manage a portion of our exposure to commodity price risk, interest rate risk and foreign currency exchange rate risk. All derivative instruments are recorded at fair value. Commodity derivatives and interest rate swaps are reflected on our consolidated balance sheet on a net basis by counterparty, as they are governed by master netting agreements. Cash flows related to derivatives used to manage commodity price risk, foreign currency risk and interest rate risk are classified in operating activities. Our derivative instruments contain no significant contingent credit features.

Fair value hedges – We may use interest rate swaps to manage our exposure to interest rate risk associated with fixed interest rate debt in our portfolio and foreign currency forwards to manage our exposure to changes in the value of foreign currency denominated liabilities. Changes in the fair values of both the hedged item and the related derivative are recognized immediately in net income with an offsetting effect included in the basis of the hedged item. The net effect is to report in net income the extent to which the hedge is not effective in achieving offsetting changes in fair value.

Cash flow hedges – We may use interest rate derivative instruments to manage the risk of interest rate changes during the period prior to anticipated borrowings and designate them as cash flow hedges. Derivative instruments designated as cash flow hedges are linked to specific assets and liabilities or to specific firm commitments or forecasted transactions. The effective portion of changes in the fair value of a qualifying cash flow hedge are recorded in other comprehensive income until the hedged item is reclassified to net income when the underlying forecasted transaction is recognized in net income. Ineffective portions of a cash flow hedge's change in fair value are recognized currently within net interest and other on the consolidated statements of income. However, if it is determined that the likelihood of the original forecasted transaction occurring is no longer probable, the entire accumulated gain or loss recognized in other comprehensive income is immediately reclassified into net income.

Derivatives not designated as hedges – Derivatives that are not designated as hedges may include commodity derivatives used primarily to manage price risk on the forecasted sale of crude oil, natural gas and synthetic crude oil that we produce. Changes in the fair value of derivatives not designated as hedges are recognized immediately in net income.

Concentrations of credit risk – All of our financial instruments, including derivatives, involve elements of credit and market risk. The most significant portion of our credit risk relates to nonperformance by counterparties. The counterparties to our financial instruments consist primarily of major financial institutions and companies within the energy industry. To manage counterparty risk associated with financial instruments, we select and monitor counterparties based on our assessment of their financial strength and on credit ratings, if available. Additionally, we limit the level of exposure with any single counterparty.

Fair value transfer – We recognize transfers between levels of the fair value hierarchy as of the end of the reporting period. If significant transfers occur, they would be disclosed in Note 15 to the consolidated financial statements.

Property, plant and equipment – We use the successful efforts method of accounting for oil and gas producing activities, which include bitumen mining and upgrading.

Property acquisition costs – Costs to acquire mineral interests in oil and natural gas properties or in oil sands mines, to drill and equip exploratory wells in progress and those that find proved reserves, to drill and equip development wells and to construct or expand oil sands mines and upgrading facilities are capitalized. Costs to drill exploratory wells that do not find proved reserves, geological and geophysical costs and costs of carrying and retaining unproved properties are expensed. Costs incurred for exploratory wells that find reserves but cannot yet be classified as proved are capitalized if (1) the well has found a sufficient quantity of reserves to justify its completion as a producing well and (2) we are making sufficient progress assessing the reserves and the economic and operating viability of the project. The status of suspended exploratory well costs is monitored continuously and reviewed at least quarterly.

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Notes to Consolidated Financial Statements

Depreciation, depletion and amortization – Capitalized costs to acquire oil and natural gas properties, which include bitumen mining and upgrading facilities, are depreciated and depleted on a units-of-production basis based on estimated proved reserves. Capitalized costs of exploratory wells and development costs are depreciated and depleted on a units-of-production basis based on estimated proved developed reserves. Support equipment and other property, plant and equipment related to oil and gas producing activities, as well as property, plant and equipment unrelated to oil and gas producing activities, are recorded at cost and depreciated on a straight-line basis over the estimated useful lives of the assets as summarized below.

| Type of Asset | Range of Useful Lives |
|---|------------------------------|
| Office furniture, equipment and computer hardware | 3 to 15 years |
| Pipelines | 10 to 40 years |
| Plants, facilities, mine equipment and infrastructure | 3 to 40 years |

Impairments – We evaluate our oil and gas producing properties, including capitalized costs of exploratory wells, development costs and our bitumen mining and upgrading facilities, for impairment of value whenever events or changes in circumstances indicate that the carrying amount of an asset may not be recoverable. If the sum of the expected undiscounted future cash flows from the use of the asset and its eventual disposition is less than the carrying amount of the asset, an impairment loss is recognized based on the fair value of the asset. Oil and gas producing properties are reviewed for impairment on a field-by-field basis or, in certain instances, by logical grouping of assets if there is significant shared infrastructure or contractual terms that cause economic interdependency amongst separate, discrete fields. Oil and gas producing properties deemed to be impaired are written down to their fair value, as determined by discounted future net cash flows or, if available, comparable market value. We evaluate our unproved property investment and record impairment based on time or geologic factors. Information such as drilling results, reservoir performance, seismic interpretation or future plans to develop acreage is also considered. When unproved property investments are deemed to be impaired, this amount is reported in exploration expenses in our consolidated statements of income.

Dispositions – When property, plant and equipment depreciated on an individual basis is sold or otherwise disposed of, any gains or losses are reflected in net gain (loss) on disposal of assets in our consolidated statements of income. Gains on the disposal of property, plant and equipment are recognized when earned, which is generally at the time of closing. If a loss on disposal is expected, such losses are recognized either when the assets are classified as held for sale, or are measured using a probability weighted income approach based on both the anticipated sales price and a held-for-use model depending on timing of the sale. Proceeds from the disposal of property, plant and equipment depreciated on a group basis are credited to accumulated depreciation, depletion and amortization with no immediate effect on net income until net book value is reduced to zero.

Goodwill – Goodwill represents the excess of the purchase price over the estimated fair value of the net assets acquired in the acquisition of a business. Such goodwill is not amortized, but rather is tested for impairment annually and when events or changes in circumstances indicate that the fair value of a reporting unit with goodwill has been reduced below carrying value. The impairment test requires allocating goodwill and other assets and liabilities to a reporting unit. The fair value of a reporting unit is determined and compared to the book value of the reporting unit. If the fair value of the reporting unit is less than the book value, including goodwill, then the recorded goodwill is impaired to its implied fair value with a charge to impairments.

Major maintenance activities – Costs for planned major maintenance are expensed in the period incurred and can include the costs of contractor repair services, materials and supplies, equipment rentals and our labor costs.

Environmental costs – We provide for remediation costs and penalties when the responsibility to remediate is probable and the amount of associated costs can be reasonably estimated. The timing of remediation accruals coincides with completion of a feasibility study or the commitment to a formal plan of action. Remediation liabilities are accrued based on estimates of known environmental exposure and are discounted when the estimated amounts are reasonably fixed or reliably determinable. Environmental expenditures are capitalized only if the costs mitigate or prevent future contamination or if the costs improve the environmental safety or efficiency of the existing assets.

Asset retirement obligations – The fair value of asset retirement obligations is recognized in the period in which the obligations are incurred if a reasonable estimate of fair value can be made. Our asset retirement obligations primarily relate to the abandonment of oil and gas producing facilities, which include our bitumen mining facilities. Asset retirement obligations for such facilities include costs to dismantle and relocate or dispose of production platforms, mine assets, gathering systems, wells and related structures and restoration costs of land and seabed, including those leased. Estimates of these costs are developed for each property based on the type of production structure, depth of water, reservoir characteristics, depth of the reservoir, market demand for equipment, currently available procedures and consultations with construction and engineering

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professionals. Asset retirement obligations have not been recognized for certain of our international oil and gas producing facilities as we currently do not have a legal obligation associated with the retirement of those facilities. Asset retirement obligations have not been recognized for the removal of materials and equipment from or the closure of certain bitumen upgrading assets because the fair value cannot be reasonably estimated since the settlement dates of the obligations are indeterminate.

Inflation rates and credit-adjusted-risk-free interest rates are used to estimate the fair value of asset retirement obligations. Depreciation of capitalized asset retirement costs and accretion of asset retirement obligations are recorded over time. Depreciation is generally determined on a units-of-production basis based on estimated proved reserves for oil and gas production facilities, which include our bitumen mining facilities, while accretion escalates over the lives of the assets.

Deferred income taxes – Deferred tax assets and liabilities are recognized for the estimated future tax consequences attributable to differences between the financial statement carrying amounts of assets and liabilities and their tax bases as reported in our filings with the respective taxing authorities. We routinely assess the realizability of our deferred tax assets based on several interrelated factors and reduce such assets by a valuation allowance if it is more likely than not that some portion or all of the deferred tax assets will not be realized. These factors include whether we are in a cumulative loss position in recent years, our reversal of temporary differences, and our expectation to generate sufficient future taxable income.

Stock-based compensation arrangements – The fair value of stock options is estimated on the date of grant using the Black-Scholes option pricing model. The model employs various assumptions, based on management's best estimates at the time of grant, which impact the calculation of fair value and ultimately, the amount of expense that is recognized over the life of the stock option award. Of the required assumptions, the expected volatility of our stock price and the stock price in relation to the strike price have the most significant impact on the fair value calculation. We have utilized historical data and analyzed current information which reasonably support these assumptions.

The fair value of our restricted stock awards and common stock units is determined based on the market value of our common stock on the date of grant. Unearned stock-based compensation is charged to stockholders' equity when restricted stock awards are granted. The fair value of our stock-based performance units is estimated using the Monte Carlo simulation method. Since these awards are settled in cash at the end of a defined performance period, they are classified as a liability and are re-measured quarterly until settlement.

Our stock-based compensation expense is recognized based on management's best estimate of the awards that are expected to vest, using the straight-line attribution method for all service-based awards with a graded vesting feature. If actual forfeiture results are different than expected, adjustments to recognized compensation expense may be required in future periods.

2. Accounting Standards

Not Yet Adopted

In November 2016, the FASB issued a new accounting standards update that requires entities to show the changes in the total of cash, cash equivalents and restricted cash in the statement of cash flows. As a result, entities will no longer present transfers between cash and cash equivalents and restricted cash in the statement of cash flows. When cash, cash equivalents, and restricted cash are presented in more than one line item on the balance sheet, the standard requires a reconciliation of the totals in the statement of cash flows to the related captions in the balance sheet. This reconciliation can be presented either on the face of the statement of cash flows or in the notes to the financial statements. This standard is effective for us in the first quarter of 2018 and shall be applied on a retrospective basis. Early adoption is permitted. We are evaluating the provisions of this accounting standards update and assessing the impact it may have on our consolidated statements of cash flows and related disclosures.

In August 2016, the FASB issued a new accounting standards update which seeks to reduce the existing diversity in practice in how certain transactions are classified in the statement of cash flows. This standard is effective for us in the first quarter of 2018 and shall be applied on a retrospective basis. Early adoption is permitted. We are evaluating the provisions of this accounting standards update and assessing the impact, if any, it may have on our consolidated statements of cash flows and related disclosures.

In June 2016, the FASB issued a new accounting standards update that changes the impairment model for trade receivables, net investments in leases, debt securities, loans and certain other instruments. The standard requires the use of a forward-looking "expected loss" model as opposed to the current "incurred loss" model. This standard is effective for us in the first quarter of 2020 and will be adopted on a modified retrospective basis through a cumulative-effect adjustment to retained earnings as of the beginning of the adoption period. Early adoption is permitted starting January 2019. We are evaluating the provisions of this accounting standards update and assessing the impact, if any, it may have on our consolidated results of operations, financial position or cash flows.

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In March 2016, the FASB issued a new accounting standards update that changes several aspects of accounting for share-based payment transactions, including a requirement to recognize all excess tax benefits and tax deficiencies as income tax expense or benefit in the income statement, classification of awards as either equity or liabilities, and classification on the statement of cash flows. This standard is effective for us in the first quarter of 2017 and varying transition methods (modified retrospective, retrospective or prospective) should be applied to different provisions of the standard. Early adoption is permitted. We will adopt this standard during the first quarter of 2017, we do not believe it will have a material effect on our consolidated results of operations, financial position or cash flows.

In February 2016, the FASB issued a new lease accounting standard, which requires lessees to recognize most leases, including operating leases, on the balance sheet as a right of use asset and lease liability. Short-term leases can continue being accounted for off balance sheet based on a policy election. This standard is effective for us in the first quarter of 2019 and should be applied using a modified retrospective approach at the beginning of the earliest period presented in the financial statements. Early adoption is permitted. We are evaluating the provisions of this accounting standards update and assessing the impact it will have on our consolidated results of operations, financial position or cash flows.

In January 2016, the FASB issued an accounting standards update that addresses certain aspects of recognition, measurement, presentation, and disclosure of financial instruments. This standard is effective for us in the first quarter of 2018. Early adoption is allowed for certain provisions. We do not expect the adoption of this standard to have a significant impact on our consolidated results of operations, financial position or cash flows.

In July 2015, the FASB issued an update that requires an entity to measure inventory at the lower of cost and net realizable value. This excludes inventory measured using LIFO or the retail inventory method. This standard is effective for us in the first quarter of 2017 and will be applied prospectively. Early adoption is permitted. We do not expect the adoption of this standard to have a significant impact on our consolidated results of operations, financial position or cash flows.

In May 2014 and August 2015, the FASB issued an update that supersedes the existing revenue recognition requirements. This standard includes a five-step revenue recognition model to depict the transfer of goods or services to customers in an amount that reflects the consideration to which the company expects to be entitled in exchange for those goods or services. Among other things, the standard requires enhanced disclosures about revenue, provides guidance for transactions that were not previously addressed comprehensively and improves guidance for multiple-element arrangements. This standard is effective for us in the first quarter of 2018 and shall be applied retrospectively to each prior reporting period presented ("full retrospective method") or with the cumulative effect of initially applying the update recognized at the date of initial application ("modified retrospective method"). While early adoption is permitted, we plan to adopt this new standard in the first quarter of 2018 using the modified retrospective method. We continue to assess our contracts that will be subject to this standard and assessing the impact it will have on our consolidated results of operations, financial position or cash flows.

Recently Adopted

In May 2015, the FASB issued an update that removes the requirement to categorize within the fair value hierarchy all investments for which fair value is measured using the net asset value per share practical expedient. The amendment also removes certain disclosure requirements regarding all investments that are eligible to be measured using the net asset value per share practical expedient and only requires certain disclosures on those investments for which an entity elects to use the net asset value per share expedient. This standard was effective for us in the first quarter of 2016 and was applied on a retrospective basis. This standard only modifies disclosure requirements; as such, there was no impact on our consolidated results of operations, financial position or cash flows.

In February 2015, the FASB issued an amendment to the guidance for determining whether an entity is a variable interest entity ("VIE"). The standard does not add or remove any of the five characteristics that determine whether an entity is a VIE. However, it does change the manner in which a reporting entity assesses one of the characteristics. In particular, when decision-making over the entity's most significant activities has been outsourced, the standard changes how a reporting entity assesses if the equity holders at risk lack decision making rights. This standard was effective for us in the first quarter of 2016. The adoption of this standard did not have a significant impact on our consolidated results of operations, financial position or cash flows.

In August 2014, the FASB issued an update that requires management to assess an entity's ability to continue as a going concern by incorporating and expanding upon certain principles that are currently in U.S. auditing standards. This standard was effective for us in the fourth quarter of 2016. Adoption of this standard did not have a significant impact on our consolidated results of operations, financial position or cash flows.

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Notes to Consolidated Financial Statements

3. Variable Interest Entities

The owners of the AOSP, in which we hold a 20% undivided interest, contracted with a wholly owned subsidiary of a publicly traded Canadian limited partnership ("Corridor Pipeline") to provide materials transportation capabilities among the Muskeg River and Jackpine mines, the Scotford upgrader and markets in Edmonton, Alberta, Canada. The contract, originally signed in 1999 by a company we acquired, allows each holder of an undivided interest in the AOSP to ship materials in accordance with its undivided interest. Costs under this contract are accrued and recorded on a monthly basis, with a \$2 million current liability recorded at December 31, 2016 and 2015. Under this agreement, the AOSP absorbs all of the operating and capital costs of the pipeline. Currently, no third-party shippers use the pipeline. Should shipments be suspended, by choice or due to force majeure, we remain responsible for the portion of the payments related to our undivided interest for all remaining periods. The contract expires in 2029; however, the shippers can extend its term perpetually. This contract qualifies as a variable interest contractual arrangement and the Corridor Pipeline qualifies as a VIE. We hold a variable interest but are not the primary beneficiary because our shipments are only 20% of the total; therefore the Corridor Pipeline is not consolidated by us. Our maximum exposure to loss as a result of our involvement with this VIE is the amount we expect to pay over the contract term, which was \$474 million as of December 31, 2016. The liability on our books related to this contract at any given time will reflect amounts due for the immediately previous month's activity, which is substantially less than the maximum exposure over the contract term. We have not provided financial assistance to Corridor Pipeline and we do not have any guarantees of such assistance in the future.

4. Income (Loss) per Common Share

Basic income (loss) per share is based on the weighted average number of common shares outstanding. Diluted income per share assumes exercise of stock options in all years, provided the effect is not antidilutive. The per share calculations below exclude 13 million, 13 million and 4 million stock options in 2016, 2015 and 2014 that were antidilutive.

| <i>(In millions, except per share data)</i> | Year Ended December 31, | | |
|---|--------------------------------|-------------------|-----------------|
| | 2016 | 2015 | 2014 |
| Income (loss) from continuing operations | \$ (2,140) | \$ (2,204) | \$ 969 |
| Discontinued operations | — | — | 2,077 |
| Net income (loss) | <u>\$ (2,140)</u> | <u>\$ (2,204)</u> | <u>\$ 3,046</u> |
| Weighted average common shares outstanding | 819 | 677 | 680 |
| Effect of dilutive securities | — | — | 3 |
| Weighted average common shares, diluted | <u>819</u> | <u>677</u> | <u>683</u> |
| Per basic share: | | | |
| Income (loss) from continuing operations | \$ (2.61) | \$ (3.26) | \$ 1.42 |
| Discontinued operations | \$ — | \$ — | \$ 3.06 |
| Net income (loss) | \$ (2.61) | \$ (3.26) | \$ 4.48 |
| Per diluted share: | | | |
| Income (loss) from continuing operations | \$ (2.61) | \$ (3.26) | \$ 1.42 |
| Discontinued operations | \$ — | \$ — | \$ 3.04 |
| Net income (loss) | <u>\$ (2.61)</u> | <u>\$ (3.26)</u> | <u>\$ 4.46</u> |

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Notes to Consolidated Financial Statements

5. Acquisitions

2016 - North America E&P

On August 1, 2016, we closed on our acquisition of PayRock Energy Holdings, LLC ("PayRock"), a portfolio company of EnCap Investments, including approximately 61,000 net surface acres in the oil window of the Anadarko Basin STACK play in Oklahoma. The purchase price of \$904 million, subject to closing adjustments was paid with cash on hand. We accounted for this transaction as an asset acquisition, with a majority of the purchase price allocated to property, plant and equipment.

2014 - North America E&P

In the fourth quarter of 2014, we acquired additional acres in the SCOOP, at a cost of \$58 million after final settlement adjustments.

In the third quarter of 2014, we acquired acreage in the Oklahoma Resource Basins, at a cost of \$68 million after final settlement adjustments.

6. Dispositions

2016 - North America E&P Segment

In September 2016, we entered into an agreement to sell certain non-operated CO₂ and waterflood assets in West Texas and New Mexico. The sale closed in late October for proceeds of \$235 million, and we recognized a total pre-tax gain of \$63 million. During the third quarter 2016, we sold certain non-operated assets primarily in West Texas and New Mexico to multiple purchasers for combined proceeds of approximately \$67 million, and recognized a total pre-tax gain of \$55 million.

In April 2016, we announced the sale of our Wyoming upstream and midstream assets. During the second quarter, we received proceeds of approximately \$690 million and recorded pre-tax gain of \$266 million with the remaining asset sales closing in November 2016 for proceeds of \$155 million, excluding closing adjustments. A pre-tax gain of \$38 million was recognized in the fourth quarter 2016.

In March and April 2016, we entered into separate agreements to sell our 10% working interest in the outside-operated Shenandoah discovery in the Gulf of Mexico, operated natural gas assets in the Piceance basin in Colorado and certain undeveloped acreage in West Texas for a combined total of approximately \$80 million in proceeds. We closed on certain of the asset sales and recognized a net pre-tax loss on sale of \$48 million in 2016, with the remaining asset sales expected to close in the second quarter of 2017.

2015 - North America E&P Segment

In November 2015, we entered into an agreement to sell our operated producing properties in the greater Ewing Bank area and non-operated producing interests in the Petronius and Neptune fields in the Gulf of Mexico. The transaction closed in December 2015, excluding the Neptune field, for proceeds of \$111 million. A \$228 million pretax gain was recorded in the fourth quarter of 2015. Assets held for sale in the December 31, 2015 consolidated balance sheet were related to the Neptune field that was pending at that date and included \$31 million in total assets and \$54 million of total liabilities. The Neptune field transaction closed during the first quarter of 2016 for cash proceeds of \$4 million.

In August 2015, we closed the sale of our East Texas, North Louisiana and Wilburton, Oklahoma natural gas assets for proceeds of \$100 million and recorded a pretax loss of \$1 million. During the second quarter of 2015, we recorded a non-cash impairment charge of \$44 million related to these assets (see Note 15).

2015 - International E&P Segment

In the third quarter of 2015, we entered into agreements to sell our East Africa exploration acreage in Ethiopia and Kenya. A pretax loss of \$109 million was recorded in the third quarter of 2015. This transaction closed during the first quarter of 2016.

2014 - North America E&P Segment

In June 2014, we closed the sale of non-core acreage located in the far northwest portion of the Williston Basin for proceeds of \$90 million. A pretax loss of \$91 million was recorded in the second quarter of 2014.

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2014 - International E&P Segment

In June 2014, we entered into an agreement to sell our Norway business, including the operated Alvheim FPSO, 10 operated licenses and a number of non-operated licenses on the Norwegian Continental Shelf in the North Sea. The transaction closed in the fourth quarter of 2014 for proceeds of \$2.1 billion, before netting \$589 million cash transferred to the buyer. A \$976 million after-tax gain on the sale of Norway business was recorded in the fourth quarter of 2014. Included in this after-tax gain is a deferred tax benefit reflecting our ability to utilize foreign tax credits that otherwise would have needed a valuation allowance.

Our Norway business is reflected as discontinued operations in the consolidated statements of income and the consolidated statements of cash flows for the periods prior to and including 2014. Select amounts reported in discontinued operations were as follows:

| <i>(In millions)</i> | Year Ended December 31, 2014 |
|---|---|
| Revenues applicable to discontinued operations | \$ 1,981 |
| Pretax income from discontinued operations | \$ 1,693 |
| Pretax gain on disposition of discontinued operations | \$ 1,406 |

In the first quarter of 2014, we closed the sales of our 10% non-operated working interests in the Production Sharing Contracts and Joint Operating Agreements for Angola Blocks 31 and 32 for aggregate proceeds of approximately \$2 billion. A \$532 million after-tax gain on the sale of our Angola assets was recorded in 2014. Included in this after-tax gain is a deferred tax benefit reflecting our ability to utilize foreign tax credits that otherwise would have needed a valuation allowance.

Our Angola operations are reflected as discontinued operations in the consolidated statements of income and the consolidated statements of cash flows for the periods prior to and including 2014. Select amounts reported in discontinued operations were as follows:

| <i>(In millions)</i> | December 31, 2014 |
|---|--------------------------|
| Revenues applicable to discontinued operations | \$ 58 |
| Pretax income from discontinued operations | \$ 51 |
| Pretax gain on disposition of discontinued operations | \$ 426 |

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7. Segment Information

We have three reportable operating segments. Each of these segments is organized and managed based upon both geographic location and the nature of the products and services it offers:

- North America E&P ("N.A. E&P") – explores for, produces and markets crude oil and condensate, NGLs and natural gas in North America;
- International E&P ("Int'l E&P") – explores for, produces and markets crude oil and condensate, NGLs and natural gas outside of North America and produces and markets products manufactured from natural gas, such as LNG and methanol, in E.G.; and
- Oil Sands Mining ("OSM") – mines, extracts and transports bitumen from oil sands deposits in Alberta, Canada, and upgrades the bitumen to produce and market synthetic crude oil and vacuum gas oil.

Information regarding assets by segment is not presented because it is not reviewed by the chief operating decision maker ("CODM"). Segment income (loss) represents income (loss) which excludes certain items not allocated to segments, net of income taxes, attributable to the operating segments. A portion of our corporate and operations support general and administrative costs are not allocated to the operating segments. These unallocated costs primarily consist of employment costs (including pension effects), professional services, facilities and other costs associated with corporate and operations support activities. Additionally, items which affect comparability such as: gains or losses on dispositions, certain impairments, change in tax expense associated with a tax rate change, changes in our valuation allowance, unrealized gains or losses on derivative instruments, pension settlement losses or other items (as determined by the CODM) are not allocated to operating segments.

As discussed in Note 6, we closed the sale of our Angola assets and our Norway business in 2014, and both are reflected as discontinued operations and excluded from the International E&P segment.

| Year Ended December 31, 2016 <i>(In millions)</i> | N.A. E&P | Int'l E&P | OSM | Not Allocated to Segments | Total |
|---|---------------------|----------------------|----------------|--------------------------------------|-------------------|
| Sales and other operating revenues | \$ 2,375 | \$ 665 | \$ 823 | \$ (110) ^(c) | \$ 3,753 |
| Marketing revenues | 135 | 105 | 38 | — | 278 |
| Total revenues | 2,510 | 770 | 861 | (110) | 4,031 |
| Income from equity method investments | — | 175 | — | — | 175 |
| Net gain on disposal of assets and other income | 28 | 32 | 2 | 382 ^(d) | 444 |
| Less: | | | | | |
| Production expenses | 486 | 226 | 601 | — | 1,313 |
| Marketing costs | 142 | 103 | 37 | — | 282 |
| Exploration expenses | 127 | 17 | 7 | 179 ^(e) | 330 |
| Depreciation, depletion and amortization | 1,835 | 276 | 239 | 45 | 2,395 |
| Impairments | 20 | — | — | 47 ^(f) | 67 |
| Other expenses ^(a) | 422 | 78 | 33 | 462 ^(g) | 995 |
| Taxes other than income | 149 | — | 17 | 2 | 168 |
| Net interest and other | — | — | — | 335 | 335 |
| Income tax provision (benefit) | (228) | 49 | (16) | 1,100 ^(h) | 905 |
| Segment income (loss) / Net income (loss) | <u>\$ (415)</u> | <u>\$ 228</u> | <u>\$ (55)</u> | <u>\$ (1,898)</u> | <u>\$ (2,140)</u> |
| Capital expenditures ^(b) | <u>\$ 936</u> | <u>\$ 82</u> | <u>\$ 33</u> | <u>\$ 18</u> | <u>\$ 1,069</u> |

^(a) Includes other operating expenses and general and administrative expenses.

^(b) Includes accruals.

^(c) Unrealized loss on commodity derivative instruments.

^(d) Primarily related to net gain on disposal of assets (see Note 6).

^(e) Primarily related to impairments associated with decision to not drill remaining Gulf of Mexico undeveloped leases (See Note 13).

^(f) Proved property impairments (see Note 13).

^(g) Includes termination payment on our Gulf of Mexico deepwater drilling rig contract of \$113 million and includes pension settlement loss of \$103 million (see Note 20) and severance related expenses associated with workforce reductions of \$8 million.

^(h) Increased valuation allowance on certain of our deferred tax assets \$1,346 million (see Note 9).

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Year Ended December 31, 2015

| <i>(In millions)</i> | N.A. E&P | Int'l E&P | OSM | Not Allocated to Segments | Total |
|---|-----------------|---------------|-----------------|------------------------------|-------------------|
| Sales and other operating revenues | \$ 3,358 | \$ 728 | \$ 815 | \$ 50 ^(c) | \$ 4,951 |
| Marketing revenues | 396 | 103 | 72 | — | 571 |
| Total revenues | 3,754 | 831 | 887 | 50 | 5,522 |
| Income (loss) from equity method investments | — | 157 | — | (12) ^(d) | 145 |
| Net gain on disposal of assets and other income | 24 | 27 | 21 | 122 ^(e) | 194 |
| Less: | | | | | |
| Production expenses | 724 | 255 | 715 | — | 1,694 |
| Marketing costs | 401 | 99 | 69 | — | 569 |
| Exploration expenses | 362 | 101 | — | 855 ^(f) | 1,318 |
| Depreciation, depletion and amortization | 2,377 | 295 | 236 | 49 | 2,957 |
| Impairments | 2 | — | 5 | 745 ^(g) | 752 |
| Other expenses ^(a) | 462 | 92 | 34 | 440 ^(h) | 1,028 |
| Taxes other than income | 215 | — | 18 | 1 | 234 |
| Net interest and other | — | — | — | 267 | 267 |
| Income tax provision (benefit) | (279) | 61 | (56) | (480) ⁽ⁱ⁾ | (754) |
| Segment income (loss) / Net Income (loss) | <u>\$ (486)</u> | <u>\$ 112</u> | <u>\$ (113)</u> | <u>\$ (1,717)</u> | <u>\$ (2,204)</u> |
| Capital expenditures ^(b) | <u>\$ 2,553</u> | <u>\$ 368</u> | <u>\$ (10)</u> | <u>\$ 25</u> | <u>\$ 2,936</u> |

^(a) Includes other operating expenses and general and administrative expenses.

^(b) Includes accruals.

^(c) Unrealized gain on commodity derivative instruments.

^(d) Partial impairment of investment in equity method investee (See Note 15).

^(e) Primarily related to gain on sale of our properties and interests in the Gulf of Mexico, partially offset by the loss on sale of East Africa exploration acreage (see Note 6).

^(f) Unproved property impairments associated with lower forecasted commodity prices and change in conventional exploration strategy (See Note 13).

^(g) Goodwill impairment (see Note 14) and proved property impairments (see Note 15).

^(h) Includes pension settlement loss of \$119 million (see Note 20) and severance related expenses associated with workforce reductions of \$55 million.

⁽ⁱ⁾ Includes \$135 million of deferred tax expense related to Alberta provincial corporate tax rate increase (see Note 9).

Year Ended December 31, 2014

| <i>(In millions)</i> | N.A. E&P | Int'l E&P | OSM | Not Allocated to Segments | Total |
|---|-----------------|---------------|---------------|------------------------------|-----------------|
| Sales and other operating revenues | \$ 5,770 | \$ 1,410 | \$ 1,556 | \$ — | \$ 8,736 |
| Marketing revenues | 1,839 | 219 | 52 | — | 2,110 |
| Total revenues | 7,609 | 1,629 | 1,608 | — | 10,846 |
| Income from equity method investments | — | 424 | — | — | 424 |
| Net gain (loss) on disposal of assets and other income | 23 | 57 | 4 | (96) ^(c) | (12) |
| Less: | | | | | |
| Production expenses | 891 | 386 | 969 | — | 2,246 |
| Marketing costs | 1,836 | 217 | 52 | — | 2,105 |
| Exploration expenses | 608 | 185 | — | — | 793 |
| Depreciation, depletion and amortization | 2,342 | 269 | 206 | 44 | 2,861 |
| Impairments | 23 | — | — | 109 ^(d) | 132 |
| Other expenses ^(a) | 473 | 197 | 54 | 392 ^(e) | 1,116 |
| Taxes other than income | 385 | — | 20 | 1 | 406 |
| Net interest and other | — | — | — | 238 | 238 |
| Income tax provision (benefit) | 381 | 288 | 76 | (353) | 392 |
| Segment income (loss) / Income from continuing operations | <u>\$ 693</u> | <u>\$ 568</u> | <u>\$ 235</u> | <u>\$ (527)</u> | <u>\$ 969</u> |
| Capital expenditures ^(b) | <u>\$ 4,698</u> | <u>\$ 534</u> | <u>\$ 212</u> | <u>\$ 51</u> | <u>\$ 5,495</u> |

^(a) Includes other operating expenses and general and administrative expenses.

^(b) Includes accruals.

^(c) Primarily related to the sale of non-core acreage in our North America E&P segment (See Note 6).

^(d) Proved property impairments (See Note 15).

^(e) Includes pension settlement loss of \$99 million (See Note 20).

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Revenues from external customers are attributed to geographic areas based upon selling location. The following summarizes revenues from external customers by geographic area.

| <i>(In millions)</i> | Year Ended December 31, | | |
|-----------------------|--------------------------------|-----------------|------------------|
| | 2016 | 2015 | 2014 |
| United States | \$ 2,400 | \$ 3,804 | \$ 7,609 |
| Canada | 861 | 887 | 1,608 |
| Libya ^(a) | 54 | — | 244 |
| Other international | 716 | 831 | 1,385 |
| Total revenues | \$ 4,031 | \$ 5,522 | \$ 10,846 |

^(a) See Note 12 for discussion of Libya operations.

In 2016, sales to Irving Oil and Valero Marketing and Supply and each of their respective affiliates accounted for approximately 17% and 10% of our total revenues. In 2015, sales to Irving Oil and Shell Oil and each of their respective affiliates accounted for approximately 13% and 11% of our total revenues. In 2014, sales to Shell Oil and its affiliates accounted for approximately 10% of our total revenues.

The following summarizes revenues by product line were.

| <i>(In millions)</i> | Year Ended December 31, | | |
|--------------------------|--------------------------------|-----------------|------------------|
| | 2016 | 2015 | 2014 |
| Crude oil and condensate | \$ 2,605 | \$ 3,963 | \$ 8,170 |
| Natural gas liquids | 198 | 203 | 371 |
| Natural gas | 356 | 464 | 693 |
| Synthetic crude oil | 816 | 781 | 1,525 |
| Other | 56 | 111 | 87 |
| Total revenues | \$ 4,031 | \$ 5,522 | \$ 10,846 |

The following summarizes property, plant and equipment and equity method investments.

| <i>(In millions)</i> | December 31, | |
|--------------------------------|---------------------|------------------|
| | 2016 | 2015 |
| United States | \$ 14,272 | \$ 15,353 |
| Canada | 8,991 | 9,197 |
| Equatorial Guinea | 1,794 | 1,917 |
| Other international | 1,592 | 1,597 |
| Total long-lived assets | \$ 26,649 | \$ 28,064 |

8. Other Items

Net interest and other

| <i>(In millions)</i> | Year Ended December 31, | | |
|----------------------------------|--------------------------------|-----------------|-----------------|
| | 2016 | 2015 | 2014 |
| Interest: | | | |
| Interest income | \$ 14 | \$ 9 | \$ 7 |
| Interest expense | (402) | (358) | (309) |
| Income on interest rate swaps | 13 | 11 | 12 |
| Interest capitalized | 23 | 26 | 20 |
| Total interest | (352) | (312) | (270) |
| Other: | | | |
| Net foreign currency gain (loss) | 2 | 23 | 21 |
| Other | 15 | 22 | 11 |
| Total other | 17 | 45 | 32 |
| Net interest and other | \$ (335) | \$ (267) | \$ (238) |

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Foreign currency – Aggregate foreign currency gains were included in the consolidated statements of income as follows:

| <i>(In millions)</i> | Year Ended December 31, | | |
|----------------------------------|-------------------------|-------|-------|
| | 2016 | 2015 | 2014 |
| Net interest and other | \$ 2 | \$ 23 | \$ 21 |
| Provision for income taxes | (32) | (11) | (12) |
| Aggregate foreign currency gains | \$ (30) | \$ 12 | \$ 9 |

9. Income Taxes

Income tax provisions (benefits) for continuing operations were:

| <i>(In millions)</i> | Year Ended December 31, | | | | | | | | |
|----------------------|-------------------------|----------|--------|---------|----------|----------|---------|----------|--------|
| | 2016 | | | 2015 | | | 2014 | | |
| | Current | Deferred | Total | Current | Deferred | Total | Current | Deferred | Total |
| Federal | \$ 2 | \$ 836 | \$ 838 | \$ (43) | \$ (687) | \$ (730) | \$ 15 | \$ 62 | \$ 77 |
| State and local | 2 | 8 | 10 | (8) | (18) | (26) | 8 | (58) | (50) |
| Foreign | 90 | (33) | 57 | 103 | (101) | 2 | 281 | 84 | 365 |
| Total | \$ 94 | \$ 811 | \$ 905 | \$ 52 | \$ (806) | \$ (754) | \$ 304 | \$ 88 | \$ 392 |

A reconciliation of the federal statutory income tax rate applied to income (loss) from continuing operations before income taxes to the provision (benefit) for income taxes follows:

| | Year Ended December 31, | | |
|--|-------------------------|-------|------|
| | 2016 | 2015 | 2014 |
| Statutory rate applied to income (loss) from continuing operations before income taxes | (35%) | (35%) | 35% |
| Effects of foreign operations, including foreign tax credits | 5 | (2) | (6) |
| Change in permanent reinvestment assertion | — | — | (19) |
| Adjustments to valuation allowances | 102 | 3 | 21 |
| Change in tax law | 1 | 5 | — |
| Goodwill impairment | — | 4 | — |
| Other | — | — | (2) |
| Effective income tax expense (benefit) rate on continuing operations | 73 % | (25%) | 29% |

The effective income tax rate is influenced by a variety of factors including the geographic and functional sources of income and the relative magnitude of these sources of income. The difference between the total provision and the sum of the amounts allocated to segments appears in the "Not Allocated to Segments" column of the tables in Note 7.

Effects of foreign operations – The effects of foreign operations increased our tax expense in 2016, increased our tax benefit in 2015, and decreased our tax expense in 2014 due to a shift in pretax income mix between high and low tax jurisdictions. Excluding Libya, the effective tax rates on continuing operations would be an expense of 73% in 2016, a benefit of 25% in 2015, and an expense of 27% in 2014.

Change in permanent reinvestment assertion – We have not elected any of our foreign earnings to be considered permanently reinvested abroad in 2016. In the second quarter of 2015, we removed our assertion for previously unremitted foreign earnings of approximately \$1 billion associated with our Canadian operations. Foreign tax credits associated with these Canadian earnings are sufficient to offset any incremental U.S. tax liabilities, and therefore, no additional net deferred U.S. taxes were recorded. In the second quarter of 2014, we removed our assertion for previously unremitted foreign earnings associated with our U.K. operations to be permanently reinvested outside the U.S. The U.K. statutory tax rate was in excess of the U.S. statutory tax rate and therefore foreign tax credits associated with these earnings exceeded any incremental U.S. tax liabilities.

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Adjustments to valuation allowances - As a result of the sustained decline in commodity prices we expect to be in a cumulative loss position in early 2017 which constitutes significant negative evidence when assessing the need for a valuation allowance and limits our ability to consider other subjective positive evidence, such as forecasted projections for taxable income in future years. As such, in the fourth quarter of 2016, we increased the valuation allowance against foreign tax credits and other federal deferred tax assets. Additionally, we decreased the valuation allowance on foreign deferred tax assets associated with the disposition of certain foreign operations.

In 2015, we increased the valuation allowance against foreign tax credits because it is more likely than not that we will be unable to realize all U.S. benefits on foreign taxes accrued in 2015. Additionally, in 2015 we increased the valuation allowance on deferred tax assets associated with our foreign operations as a result of pretax losses in certain jurisdictions.

In 2014, we increased the valuation allowance against foreign tax credits as a result of removing the permanent reinvestment assertion on our U.K. operations since the U.K. statutory tax rate is in excess of the U.S. statutory tax rate per discussion above.

Change in tax law – On September 15, 2016, the U.K. government enacted legislation reducing the rate of the Petroleum Revenue Tax from 35% to 0% and reducing the Supplemental Charge Tax from 20% to 10%. As a result of this legislation, we reduced our deferred tax asset by \$6 million and recorded a non-cash deferred tax expense in the third quarter of 2016. On June 29, 2015, the Alberta government enacted legislation to increase the provincial corporate tax rate from 10% to 12%. As a result of this legislation, we recorded a non-cash deferred tax expense of \$135 million in the second quarter of 2015.

Deferred tax assets and liabilities resulted from the following:

| <i>(In millions)</i> | Year Ended December 31, | |
|--|--------------------------------|-------------|
| | 2016 | 2015 |
| Deferred tax assets: | | |
| Employee benefits | \$ 228 | \$ 260 |
| Operating loss carryforwards | 1,065 | 563 |
| Capital loss carryforwards | 4 | 17 |
| Foreign tax credits | 4,430 | 4,335 |
| Other credit carryforwards | 35 | 35 |
| Investments in subsidiaries and affiliates | 91 | 17 |
| Other | 88 | 73 |
| Valuation allowances: | | |
| Federal | (4,166) | (2,820) |
| State, net of federal benefit | (53) | (56) |
| Foreign | (84) | (162) |
| Total deferred tax assets | 1,638 | 2,262 |
| Deferred tax liabilities: | | |
| Property, plant and equipment | 3,672 | 3,376 |
| Other | 68 | 105 |
| Total deferred tax liabilities | 3,740 | 3,481 |
| Net deferred tax liabilities | \$ 2,102 | \$ 1,219 |

Tax carryforwards – At December 31, 2016 our operating loss carryforwards includes \$1.8 billion from the U.S. that expire in 2035 and 2036. Foreign operating loss carryforwards include \$975 million from Canada that expire in 2029 through 2036, \$332 million from the Kurdistan Region of Iraq that expire in 2017 through 2021, \$83 million from Libya that expires in 2026 and \$8 million from E.G. that expire in 2017 through 2021. State operating loss carryforwards of \$1,359 million expire in 2017 through 2036. Foreign tax credit carryforwards of \$3,906 million expire in 2022 through 2026.

Valuation allowances – We consider whether it is more likely than not that some portion or all of our deferred tax assets will not be realized. In the event it is more likely than not that some portion or all of our deferred taxes will not be realized, such assets are reduced by a valuation allowance. The estimated realizability of the benefit of our deferred tax asset is assessed considering a preponderance of evidence. This assessment requires analysis of all available positive and negative evidence. Positive evidence includes reversals of temporary differences, forecasts of future taxable income, assessment of future business assumptions and applicable tax planning strategies. Negative evidence includes losses in recent years as well as the forecasts of future income (loss) in the realizable period.

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We expect to be in a cumulative loss position in early 2017 which constitutes significant negative evidence as to the future realizability of the value of our deferred tax assets. As a result, we are limited in our ability to consider forecasts for taxable income in future years in connection with our assessment of the realizability of our foreign tax credits and other federal deferred tax assets. Additionally, we considered the reversals of existing deferred tax assets and liabilities related to temporary differences between the book and tax basis of our assets and liabilities and concluded that it is more likely than not that a portion of our deferred tax assets would not be realized. Therefore, we increased our valuation allowance on our federal deferred tax assets by \$1,346 million in 2016 related to U.S. benefits on foreign taxes and other federal deferred tax assets. If objective negative evidence in the form of cumulative losses is no longer present and additional weight is given to subjective evidence such as forecasted projections of taxable income in future years, we would adjust the amount of the federal deferred tax assets considered realizable and reduce the provision for income taxes in the period of adjustment.

Federal valuation allowances increased \$45 million in 2015 related to U.S. benefits on foreign taxes accrued in 2015. Federal valuation allowances decreased \$222 million in 2014 primarily due to the sale of our Norway and Angola businesses.

Foreign valuation allowances decreased \$78 million in 2016 primarily due to the disposal of our Ethiopia, Kenya, and certain E.G. assets. Foreign valuation allowances increased \$54 million in 2015 primarily due to deferred tax assets generated in the Kurdistan Region of Iraq, E.G. and Gabon. Foreign valuation allowances decreased \$41 million in 2014 primarily due to the disposal of our Angolan assets.

Net deferred tax liabilities were classified in the consolidated balance sheets as follows:

| <i>(In millions)</i> | December 31, | |
|-------------------------------------|---------------------|-----------------|
| | 2016 | 2015 |
| Assets: | | |
| Other current assets | \$ — | \$ — |
| Other noncurrent assets | 336 | 1,222 |
| Liabilities: | | |
| Other current liabilities | — | — |
| Noncurrent deferred tax liabilities | <u>2,438</u> | <u>2,441</u> |
| Net deferred tax liabilities | \$ 2,102 | \$ 1,219 |

We are continuously undergoing examination of our U.S. federal income tax returns by the IRS. Such audits have been completed through the 2014 tax year, with the exception of 2010-11, which are currently under IRS appeals. We believe adequate provision has been made for federal income taxes and interest which may become payable for years not yet settled. Further, we are routinely involved in U.S. state income tax audits and foreign jurisdiction tax audits. We believe all other audits will be resolved within the amounts paid and/or provided for these liabilities.

As of December 31, 2016 our income tax returns remain subject to examination in the following major tax jurisdictions for the tax years indicated:

| | |
|------------------------------|-----------|
| United States ^(a) | 2008-2015 |
| Canada | 2010-2015 |
| Equatorial Guinea | 2007-2015 |
| Libya | 2012-2015 |
| United Kingdom | 2008-2015 |

^(a) Includes federal and state jurisdictions.

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The following table summarizes the activity in unrecognized tax benefits:

| <i>(In millions)</i> | 2016 | 2015 | 2014 |
|---|--------------|--------------|--------------|
| Beginning balance | \$ 65 | \$ 80 | \$ 146 |
| Additions for tax positions related to the current year | — | — | — |
| Additions for tax positions of prior years | 6 | 1 | 11 |
| Reductions for tax positions of prior years | (5) | — | (68) |
| Settlements | — | (7) | (9) |
| Statute of limitations | — | (9) | — |
| Ending balance | <u>\$ 66</u> | <u>\$ 65</u> | <u>\$ 80</u> |

If the unrecognized tax benefits as of December 31, 2016 were recognized, \$25 million would affect our effective income tax rate. As of December 31, 2016, there are \$20 million uncertain tax positions for which it is reasonably possible that the amount would significantly increase or decrease during the next twelve months.

Interest and penalties are recorded as part of the tax provision and were \$1 million, \$1 million and \$6 million related to unrecognized tax benefits in 2016, 2015 and 2014. As of December 31, 2016 and 2015, \$15 million and \$14 million of interest and penalties were accrued related to income taxes.

Pretax income (loss) from continuing operations included amounts attributable to foreign sources of \$204 million, \$(654) million and \$1,180 million in 2016, 2015 and 2014.

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10. Inventories

Crude oil, natural gas and bitumen are recorded at weighted average cost and carried at the lower of cost or market value. Supplies and other items consist principally of tubular goods and equipment which are valued at weighted average cost and reviewed periodically for obsolescence or impairment when market conditions indicate.

| <i>(In millions)</i> | December 31, | |
|------------------------------------|---------------------|---------------|
| | 2016 | 2015 |
| Crude oil, natural gas and bitumen | \$ 31 | \$ 35 |
| Supplies and other items | 196 | 278 |
| Inventories at cost | <u>\$ 227</u> | <u>\$ 313</u> |

11. Equity Method Investments and Related Party Transactions

During 2016, 2015 and 2014 only our equity method investees were considered related parties and they included:

- EGHoldings, in which we have a 60% noncontrolling interest. EGHoldings is engaged in LNG production activity.
- Alba Plant LLC, in which we have a 52% noncontrolling interest. Alba Plant LLC processes LPG.
- AMPCO, in which we have a 45% interest. AMPCO is engaged in methanol production activity.

Our equity method investments are summarized in the following table:

| <i>(In millions)</i> | Ownership as of | December 31, | |
|----------------------|--------------------------|---------------------|-----------------|
| | December 31, 2016 | 2016 | 2015 |
| EGHoldings | 60% | \$ 550 | \$ 603 |
| Alba Plant LLC | 52% | 215 | 230 |
| AMPCO | 45% | 165 | 169 |
| Other investments | | 1 | 1 |
| Total | | <u>\$ 931</u> | <u>\$ 1,003</u> |

Dividends and partnership distributions received from equity method investees (excluding distributions that represented a return of capital previously contributed) were \$192 million in 2016, \$178 million in 2015 and \$451 million in 2014.

Summarized financial information for equity method investees is as follows:

| <i>(In millions)</i> | 2016 | 2015 | 2014 |
|--|-------------|-------------|-------------|
| Income data – year: | | | |
| Revenues and other income | \$ 770 | \$ 769 | \$ 1,349 |
| Income from operations | 346 | 313 | 826 |
| Net income | <u>313</u> | <u>280</u> | <u>728</u> |
| Balance sheet data – December 31: | | | |
| Current assets | \$ 525 | \$ 467 | |
| Noncurrent assets | 1,173 | 1,317 | |
| Current liabilities | 218 | 211 | |
| Noncurrent liabilities | <u>47</u> | <u>41</u> | |

Revenues from related parties were \$54 million, \$51 million and \$56 million in 2016, 2015 and 2014, with the majority related to EGHoldings in all years. Purchases from related parties were \$103 million, \$207 million and \$207 million in 2016, 2015 and 2014 with the majority related to Alba Plant LLC in all years.

Current receivables from related parties at December 31, 2016 and 2015, were \$23 million, and \$29 million. Payables to related parties were \$11 million and \$5 million at December 31, 2016 and 2015, with the majority related to Alba Plant LLC.

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12. Property, Plant and Equipment

| <i>(In millions)</i> | December 31, | |
|-----------------------------------|--------------|-----------|
| | 2016 | 2015 |
| North America E&P | \$ 14,158 | \$ 15,226 |
| International E&P | 2,470 | 2,533 |
| Oil Sands Mining | 8,991 | 9,197 |
| Corporate | 99 | 105 |
| Net property, plant and equipment | \$ 25,718 | \$ 27,061 |

Our Libya operations have been interrupted in recent years due to civil unrest. On September 14, 2016, Force Majeure was lifted and production resumed in October 2016 at our Waha concession. During December 2016, liftings resumed from the Es-Sider crude oil terminal.

As of December 31, 2016, our net property, plant and equipment investment in Libya is approximately \$768 million, and total proved reserves (unaudited) in Libya are 206 mmbbl. We and our partners in the Waha concessions continue to assess the situation and the condition of our assets in Libya. Our periodic assessment of the carrying value of our net property, plant and equipment in Libya specifically considers the net investment in the assets, the duration of our concessions and the reserves anticipated to be recoverable in future periods. The undiscounted cash flows related to our Libya assets continue to exceed the carrying value of \$768 million by a significant amount.

Deferred exploratory well costs were as follows:

| <i>(In millions)</i> | December 31, | | |
|--|--------------|--------|--------|
| | 2016 | 2015 | 2014 |
| Amounts capitalized less than one year after completion of drilling | \$ 131 | \$ 352 | \$ 484 |
| Amounts capitalized greater than one year after completion of drilling | 118 | 85 | 126 |
| Total deferred exploratory well costs | \$ 249 | \$ 437 | \$ 610 |
| Number of projects with costs capitalized greater than one year after completion of drilling | 3 | 2 | 3 |

| <i>(In millions)</i> | 2016 | 2015 | 2014 |
|-----------------------------|--------|--------|--------|
| Beginning balance | \$ 437 | \$ 610 | \$ 793 |
| Additions | 299 | 610 | 647 |
| Charges to expense | (23) | (148) | (45) |
| Transfers to development | (388) | (635) | (579) |
| Dispositions ^(a) | (76) | — | (206) |
| Ending balance | \$ 249 | \$ 437 | \$ 610 |

^(a) Includes sale of GOM assets in 2016, and the sale of Angola assets and Norway business in 2014.

Exploratory well costs capitalized greater than one year after completion of drilling as of December 31, 2016 are summarized by geographical area below:

| <i>(In millions)</i> | |
|----------------------|--------|
| Gabon | \$ 64 |
| E.G. | 54 |
| Total | \$ 118 |

Well costs that have been suspended for longer than one year are associated with three projects. Management believes these projects with suspended exploratory drilling costs exhibit sufficient quantities of hydrocarbons to justify potential development based on current plans.

Gabon - The Diaba-1B well reached total depth in the third quarter of 2013. Additional 3D seismic data was acquired in late 2014 in the western part of the block, and depth processing continued through the third quarter of 2016. We continue to utilize this data to facilitate evaluation of additional resource potential on the offshore Diaba License to support decisions regarding the exploration program.

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E.G. – The Corona well on Block D offshore E.G. was drilled in 2004, and we acquired an additional interest in the well in 2012. We plan to develop Block D through a unitization with the Alba field. Negotiations have been substantially completed and we are awaiting approval from the host government.

Drilling was completed on the Rodo well in Alba Block Sub Area B, offshore E. G. in the first quarter of 2015, and we have since completed a seismic feasibility study. In early 2017, we received approval to perform a seismic reprocessing program and after completion, will evaluate drilling opportunities within Sub Area B.

13. Impairments and Exploration Expenses

Impairments

The following table summarizes impairment charges of proved properties:

| <i>(in millions)</i> | Year Ended December 31, | | |
|--------------------------|-------------------------|--------|--------|
| | 2016 | 2015 | 2014 |
| Total impairments | \$ 67 | \$ 752 | \$ 132 |

- **2016** - Impairments of \$67 million consisted primarily of proved properties in Oklahoma and the Gulf of Mexico as a result of lower forecasted commodity prices and revisions to estimated abandonment costs.
- **2015** - Impairments included \$340 million for the goodwill impairment of the North America E&P reporting unit, and \$335 million related to proved properties (primarily in Colorado and the Gulf of Mexico) as a result of lower forecasted commodity prices, and \$44 million associated with our disposition of natural gas assets in East Texas, North Louisiana and Wilburton, Oklahoma.
- **2014** - Impairments of \$132 million consisted primarily of proved properties in the Gulf of Mexico, Texas and North Dakota as a result of revisions to estimated abandonment costs and lower forecasted commodity prices.

See Note 7 for relevant detail regarding segment presentation, Note 14 for further detail regarding the goodwill impairment and Note 15 for fair value measurements related to impairments of proved properties and long-lived assets.

Exploration expense

The following table summarizes the components of exploration expenses:

| <i>(In millions)</i> | Year Ended December 31, | | |
|-----------------------------------|-------------------------|-----------------|---------------|
| | 2016 | 2015 | 2014 |
| Exploration Expenses | | | |
| Unproved property impairments | \$ 195 | \$ 964 | \$ 306 |
| Dry well costs | 32 | 250 | 317 |
| Geological and geophysical | 5 | 31 | 85 |
| Other | 98 | 73 | 85 |
| Total exploration expenses | \$ 330 | \$ 1,318 | \$ 793 |

Unproved property impairments

- **2016** - Primarily a result of our decision to not drill any of our remaining Gulf of Mexico undeveloped leases and also includes certain other unproved properties in North America.
- **2015** - Primarily due to changes in our conventional exploration strategy (Gulf of Mexico, Canadian in-situ assets and Harir block in the Kurdistan Region of Iraq), relinquishment of certain properties in the Gulf of Mexico, the operated Solomon exploration well in the Gulf of Mexico and our unproved property in Colorado as a result of the proved property impairment mentioned above.
- **2014** - Primarily consists of Eagle Ford and Bakken leases that either expired or we decided not to drill or extend.

See Note 7 for relevant detail regarding segment presentation of unproved property impairments.

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Dry well costs

- **2016** - Lower dry well expense as a result of the strategic decision to transition out of our conventional exploration program in the previous year.
- **2015** - Includes the operated Solomon exploration well in the Gulf of Mexico, our operated Sodalita West #1 exploratory well in E.G. and suspended well costs related our Canadian in-situ assets at Birchwood.
- **2014** - Includes the operated Key Largo well, outside-operated Perseus well and the outside-operated second Shenandoah appraisal well, all of which are located in the Gulf of Mexico. In addition, 2014 also includes our exploration programs in the Kurdistan Region of Iraq, Ethiopia and Kenya.

14. Goodwill

Goodwill is tested for impairment on an annual basis in April of each year, or when events or changes in circumstances indicate the fair value of a reporting unit with goodwill may have been reduced below its carrying value. Goodwill is tested for impairment at the reporting unit level. Our reporting units are the same as our reporting segments, of which only International E&P includes goodwill. We estimated the fair values of the International E&P reporting unit using a combination of market and income approaches. The market approach referenced observable inputs specific to us and our industry, such as the price of our common equity, our enterprise value, and valuation multiples of us and our peers from the investor analyst community. The income approach utilized discounted cash flows, which were based on forecasted assumptions. Key assumptions to the income approach include future liquid hydrocarbon and natural gas pricing, estimated quantities of liquid hydrocarbon and natural gas proved and probable reserves, estimated timing of production, discount rates, future capital requirements, operating expenses and tax rates. The assumptions used in the income approach are consistent with those that management uses to make business decisions. These valuation methodologies represent Level 3 fair value measurements. We believe the estimates and assumptions used in our impairment assessments are reasonable and based on available market information, but variations in such assumptions could result in materially different calculations of fair value and determinations of whether or not an impairment is indicated.

We performed our annual impairment tests in April of 2016, 2015 and 2014 and no impairment was required. As of the date of our last impairment assessment, the fair value of our International E&P reporting unit exceeded its book value of \$115 million by 26%. Subsequent to our goodwill impairment test in April 2015, triggering events (downward revisions to forecasted commodity price assumptions and sustained price declines in our common stock) required us to reassess our goodwill for impairment as of December 31, 2015. We recorded an impairment of goodwill for the North America E&P reporting unit during the fourth quarter of 2015.

The table below displays the allocated beginning goodwill balances by segment along with changes in the carrying amount of goodwill for 2016 and 2015:

| <i>(In millions)</i> | N.A. E&P | Int'l E&P | OSM | Total |
|-------------------------------|---------------------|----------------------|------------|--------------|
| 2015 | | | | |
| Beginning balance, gross | \$ 344 | \$ 115 | \$ 1,412 | \$ 1,871 |
| Less: accumulated impairments | — | — | (1,412) | (1,412) |
| Beginning balance, net | 344 | 115 | — | 459 |
| Dispositions | (4) | — | — | (4) |
| Impairment | (340) | — | — | (340) |
| Ending balance, net | \$ — | \$ 115 | \$ — | \$ 115 |
| 2016 | | | | |
| Beginning balance, gross | \$ — | \$ 115 | \$ 1,412 | \$ 1,527 |
| Less: accumulated impairments | — | — | (1,412) | (1,412) |
| Beginning balance, net | — | 115 | — | 115 |
| Dispositions | — | — | — | — |
| Impairment | — | — | — | — |
| Ending balance, net | \$ — | \$ 115 | \$ — | \$ 115 |

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15. Fair Value Measurements

Fair values – Recurring

The following tables present assets and liabilities accounted for at fair value on a recurring basis by hierarchy level.

| <i>(In millions)</i> | December 31, 2016 | | | |
|-------------------------------------|--------------------------|----------------|----------------|--------------|
| | Level 1 | Level 2 | Level 3 | Total |
| Derivative instruments, assets | | | | |
| Commodity ^(a) | \$ — | \$ — | \$ — | \$ — |
| Interest rate | — | 68 | — | 68 |
| Derivative instruments, assets | \$ — | \$ 68 | \$ — | \$ 68 |
| Derivative instruments, liabilities | | | | |
| Commodity | \$ — | \$ 60 | \$ — | \$ 60 |
| Derivative instruments, liabilities | \$ — | \$ 60 | \$ — | \$ 60 |

| <i>(In millions)</i> | December 31, 2015 | | | |
|-------------------------------------|--------------------------|----------------|----------------|--------------|
| | Level 1 | Level 2 | Level 3 | Total |
| Derivative instruments, assets | | | | |
| Commodity ^(a) | \$ — | \$ 51 | \$ — | \$ 51 |
| Interest rate | \$ — | \$ 8 | \$ — | \$ 8 |
| Derivative instruments, assets | \$ — | \$ 59 | \$ — | \$ 59 |
| Derivative instruments, liabilities | | | | |
| Commodity ^(a) | \$ — | \$ 1 | \$ — | \$ 1 |
| Derivative instruments, liabilities | \$ — | \$ 1 | \$ — | \$ 1 |

^(a) Derivative instruments are recorded on a net basis in our balance sheet (see Note 16).

Commodity derivatives include three-way collars, call options and swaps. These instruments are measured at fair value using either a Black-Scholes or a modified Black-Scholes Model. Inputs to the models include commodity prices, interest rates, and implied volatility and are categorized as Level 2 because predominantly all assumptions and inputs are observable in active markets throughout the term of the instruments.

Both our interest rate swaps and forward starting interest rate swaps are measured at fair value with a market approach using actionable broker quotes, which are Level 2 inputs. See Note 16 for additional discussion of the types of derivative instruments we use.

Fair values – Nonrecurring

The following table shows the values of assets, by major category, measured at fair value on a nonrecurring basis in periods subsequent to their initial recognition.

| <i>(In millions)</i> | 2016 | | 2015 | | 2014 | |
|--------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | Fair Value | Impairment | Fair Value | Impairment | Fair Value | Impairment |
| Long-lived assets held for use | \$ 15 | \$ 67 | \$ 56 | \$ 412 | \$ 43 | \$ 132 |

Long-lived assets held for use that were impaired are discussed below. The fair values of each were measured using an income approach based upon internal estimates of future production levels, prices and discount rate, all of which are Level 3 inputs. Inputs to the fair value measurement include reserve and production estimates made by our reservoir engineers, estimated future commodity prices adjusted for quality and location differentials and forecasted operating expenses for the remaining estimated life of the reservoir.

North America E&P

In the third quarter of 2016, impairments of \$47 million were recorded consisting primarily of conventional non-core proved properties in Oklahoma as a result of lower forecasted long-term commodity prices, to an aggregate fair value of \$15 million. During the fourth quarter of 2016, we recorded an impairment of \$17 million as a result of abandonment cost revisions related to the Ozona development in the Gulf of Mexico which ceased production in 2013.

In the third quarter of 2015, impairments of \$333 million were recorded primarily related to certain producing assets in Colorado and the Gulf of Mexico as a result of lower forecasted commodity prices, to an aggregate fair value of \$41 million.

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During the second quarter of 2015, we recorded an impairment charge of \$44 million related to East Texas, North Louisiana and Wilburton, Oklahoma natural gas assets as a result of the anticipated sale. The fair values were measured using a probability weighted income approach based on both the anticipated sale price and held-for-use model.

In the third quarter of 2014, impairments of \$53 million were recorded to Gulf of Mexico properties as a result of estimated abandonment cost and other revisions, to an aggregate fair value of \$19 million. In addition, two fields were impaired a total of \$47 million to an aggregate fair value of \$24 million primarily due to lower forecasted commodity prices.

During 2014, we recorded impairments of \$30 million as a result of abandonment cost revisions relating to the Ozona development in the Gulf of Mexico which ceased production in 2013.

Other impairments of long-lived assets held for use in 2016, 2015, and 2014 were a result of reduced drilling expectations, reductions of estimated reserves or lower forecasted commodity prices.

International E&P

In the third quarter of 2015, a partial impairment of \$12 million was recorded to an investment in an equity method investee as a result of lower forecasted commodity prices, to a fair value of \$604 million. The impairment was reflected in income from equity method investments in our consolidated statement of income.

Oil Sands Mining

In the fourth quarter of 2015, impairments of \$26 million were recorded related to long-lived assets used in debottlenecking projects. Based on an evaluation by the operator, it was determined that the projects would not continue due to a need to reduce capital intensity and improve efficiency.

Fair values – Financial instruments

Our current assets and liabilities include financial instruments, the most significant of which are receivables, long-term debt and payables. We believe the carrying values of our receivables and payables approximate fair value. Our fair value assessment incorporates a variety of considerations, including (1) the short-term duration of the instruments, (2) our credit rating and (3) our historical incurrence of and expected future insignificance of bad debt expense, which includes an evaluation of counterparty credit risk.

The following table summarizes financial instruments, excluding receivables, payables and derivative financial instruments, and their reported fair value by individual balance sheet line item at December 31, 2016 and 2015.

| <i>(In millions)</i> | December 31, | | | |
|--|---------------------|------------------------|-------------------|------------------------|
| | 2016 | | 2015 | |
| | Fair Value | Carrying Amount | Fair Value | Carrying Amount |
| Financial assets | | | | |
| Other current assets | \$ 7 | \$ 7 | \$ — | \$ — |
| Other noncurrent assets | 119 | 121 | 104 | 118 |
| Total financial assets | \$ 126 | \$ 128 | \$ 104 | \$ 118 |
| Financial liabilities | | | | |
| Other current liabilities | \$ 68 | \$ 75 | \$ 34 | \$ 33 |
| Long-term debt, including current portion ^(a) | 7,449 | 7,292 | 6,723 | 7,291 |
| Deferred credits and other liabilities | 114 | 107 | 97 | 95 |
| Total financial liabilities | \$ 7,631 | \$ 7,474 | \$ 6,854 | \$ 7,419 |

^(a) Excludes capital leases, debt issuance costs and interest rate swap adjustments.

Fair values of our financial assets included in other noncurrent assets, and of our financial liabilities included in other current liabilities and deferred credits and other liabilities, are measured using an income approach and most inputs are internally generated, which results in a Level 3 classification. Estimated future cash flows are discounted using a rate deemed appropriate to obtain the fair value.

Most of our long-term debt instruments are publicly-traded. A market approach, based upon quotes from major financial institutions, which are Level 2 inputs, is used to measure the fair value of such debt. The fair value of our debt that is not publicly-traded is measured using an income approach. The future debt service payments are discounted using the rate at which we currently expect to borrow. All inputs to this calculation are Level 3.

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16. Derivatives

For further information regarding the fair value measurement of derivative instruments see Note 15. See Note 1 for discussion of the types of derivatives we use and the reasons for them. All of our interest rate and commodity derivatives are subject to enforceable master netting arrangements or similar agreements under which we may report net amounts. The following tables present the gross fair values of derivative instruments and the reported net amounts along with where they appear on the consolidated balance sheets.

| <i>(In millions)</i> | December 31, 2016 | | | Balance Sheet Location |
|---------------------------------|-------------------|-----------|-----------|---------------------------|
| | Asset | Liability | Net Asset | |
| Fair Value Hedges | | | | |
| Interest rate | \$ 3 | \$ — | \$ 3 | Other current assets |
| Interest rate | 1 | — | 1 | Other noncurrent assets |
| Cash Flow Hedges | | | | |
| Interest rate | \$ 64 | \$ — | \$ 64 | Other noncurrent assets |
| Total Designated Hedges | \$ 68 | \$ — | \$ 68 | |
| Not Designated as Hedges | | | | |
| Commodity | \$ — | \$ 60 | \$ (60) | Other current liabilities |
| Total Not Designated as Hedges | \$ — | \$ 60 | \$ (60) | |
| Total | \$ 68 | \$ 60 | \$ 8 | |

| <i>(In millions)</i> | December 31, 2015 | | | Balance Sheet Location |
|---------------------------------|-------------------|-----------|-----------|-------------------------|
| | Asset | Liability | Net Asset | |
| Fair Value Hedges | | | | |
| Interest rate | \$ 8 | \$ — | \$ 8 | Other noncurrent assets |
| Total Designated Hedges | \$ 8 | \$ — | \$ 8 | |
| Not Designated as Hedges | | | | |
| Commodity | \$ 51 | \$ 1 | \$ 50 | Other current assets |
| Total Not Designated as Hedges | 51 | 1 | 50 | |
| Total | \$ 59 | \$ 1 | \$ 58 | |

Derivatives Designated as Fair Value Hedges

The following table presents by maturity date, information about our interest rate swap agreements, including the weighted average, London Interbank Offer Rate (“LIBOR”)-based, floating rate.

| Maturity Dates | December 31, 2016 | | December 31, 2015 | |
|-----------------|--|--|--|--|
| | Aggregate Notional Amount (in millions) | Weighted Average, LIBOR-Based, Floating Rate | Aggregate Notional Amount (in millions) | Weighted Average, LIBOR-Based, Floating Rate |
| October 1, 2017 | \$ 600 | 5.10% | \$ 600 | 4.73% |
| March 15, 2018 | \$ 300 | 5.04% | \$ 300 | 4.66% |

The pretax effect of derivative instruments designated as hedges of fair value in our consolidated statements of income is summarized in the table below. There is no ineffectiveness related to the fair value hedges.

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| <i>(In millions)</i> | Income Statement Location | Gain (Loss) | | |
|----------------------|---------------------------|-------------------------|------|------|
| | | Year Ended December 31, | | |
| | | 2016 | 2015 | 2014 |
| Derivative | | | | |
| Interest rate | Net interest and other | \$ (4) | \$ — | \$ — |
| Foreign currency | Discontinued operations | — | — | (36) |
| Hedged Item | | | | |
| Debt | Net interest and other | \$ 4 | \$ — | \$ — |
| Accrued taxes | Discontinued operations | — | — | 36 |

The table above includes foreign currency forwards in 2014 which hedged the current Norwegian tax liability of the Norway business, which was subsequently reported as discontinued operations. The open positions were transferred to the purchaser of our Norway business upon closing of the sale in the fourth quarter of 2014.

Derivatives Designated as Cash Flow Hedges

During the third quarter of 2016, we entered into forward starting interest rate swaps to hedge the variations in cash flows related to fluctuations in long term interest rates from debt that is probable to be refinanced by us in 2018, specifically interest rate risk associated with future changes in the benchmark treasury rate. The occurrence of the forecasted transaction is probable and each respective derivative contract can be tied to an anticipated underlying dollar notional amount. At conclusion of the hedge in the first quarter of 2018, the final value will be reclassified from accumulated other comprehensive income into earnings. At December 31, 2016, the forward starting interest rate swaps continued to qualify as an effective hedge. The ineffectiveness related to this hedge resulted in a charge of \$4 million in 2016. See Note 22 for a summary of amounts reclassified from accumulated other comprehensive loss.

The following table presents, by maturity date, information about our forward starting interest rate swap agreements, including the rate.

| Maturity Dates | December 31, 2016 | |
|----------------|---|---------------------------------------|
| | Aggregate Notional Amount <i>(in millions)</i> | Weighted Average, LIBOR Fixed Rate |
| March 15, 2018 | \$ 750 | 1.57% |

The following table sets forth the net impact of the derivatives designated as cash flow hedges on other comprehensive income (loss).

| <i>(In millions)</i> | December 31, | |
|---|--------------|------|
| | 2016 | 2015 |
| Cash Flow Hedges | | |
| Beginning balance | \$ — | \$ — |
| Change in fair value recognized in accumulated other comprehensive loss | 64 | — |
| Reclassification from other comprehensive income (loss) | (4) | — |
| Ending balance | \$ 60 | \$ — |

At December 31, 2016, accumulated other comprehensive loss included a gain of \$39 million, net of tax, related to interest rate cash flow hedges. We do not expect any material reclassification to earnings as an adjustment to net interest and other during the next 12 months.

Derivatives Not Designated as Hedges

We have entered into multiple crude oil and natural gas derivatives indexed to NYMEX WTI and Henry Hub related to a portion of our forecasted North America E&P sales through December 2018. These commodity derivatives consist of three-way collars, swaps, and call options. Three-way collars consist of a sold call (ceiling), a purchased put (floor) and a sold put. The ceiling price is the maximum we will receive for the contract volumes, the floor is the minimum price we will receive, unless the market price falls below the sold put strike price. In this case, we receive the NYMEX WTI/Henry Hub price plus the difference between the floor and the sold put price. These commodity derivatives were not designated as hedges. The following table sets forth outstanding derivative contracts as of December 31, 2016 and the weighted average prices for those contracts:

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Crude Oil ^(a)

| | 2017 | | | |
|---|---------------|----------------|---------------|----------------|
| | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Three-Way Collars ^(b) | | | | |
| Volume (Bbls/day) | 50,000 | 50,000 | 30,000 | 30,000 |
| Price per Bbl: | | | | |
| Ceiling | \$58.42 | \$58.42 | \$59.60 | \$59.60 |
| Floor | \$50.30 | \$50.30 | \$54.00 | \$54.00 |
| Sold put | \$43.50 | \$43.50 | \$47.00 | \$47.00 |
| Sold Call Options ^(c) | | | | |
| Volume (Bbls/day) | 35,000 | 35,000 | 35,000 | 35,000 |
| Price per Bbl | \$61.91 | \$61.91 | \$61.91 | \$61.91 |

^(a) Subsequent to December 31, 2016, we entered into 10,000 Bbls/day of fixed-price swaps with a weighted average price of \$54.00 indexed to WTI for February - March of 2017.

^(b) Subsequent to December 31, 2016, we entered into 20,000 Bbls/day of three-way collars for July - December of 2017 with a ceiling price of \$61.52, a floor price of \$56.00, and a sold put price of \$49.00.

^(c) Call options settle monthly.

Natural Gas

| | 2017 | | | | 2018 |
|---|---------------|----------------|---------------|----------------|--------|
| | First Quarter | Second Quarter | Third Quarter | Fourth Quarter | |
| Three-Way Collars ^(a) | | | | | |
| Volume (MMBtu/day) | 60,000 | 90,000 | 90,000 | 90,000 | 20,000 |
| Price per MMBtu | | | | | |
| Ceiling | \$3.46 | \$3.54 | \$3.54 | \$3.61 | \$3.56 |
| Floor | \$2.84 | \$3.01 | \$3.01 | \$3.04 | \$3.00 |
| Sold put | \$2.35 | \$2.48 | \$2.48 | \$2.52 | \$2.50 |
| Swaps | | | | | |
| Volume (MMBtu/day) | 20,000 | 20,000 | 20,000 | 20,000 | — |
| Price per MMBtu | \$2.93 | \$2.93 | \$2.93 | \$2.93 | \$— |

^(a) Subsequent to December 31, 2016, we entered into three-way collars of 30,000 MMBtus/day for April - September of 2017 with a ceiling price of \$3.70, a floor price of \$3.35, and a sold put price of \$2.75; 30,000 MMBtus/day for October - December of 2017 with a ceiling price of \$4.00, a floor price of \$3.45, and a sold put price of \$2.85; and 70,000 MMBtus/day for January - December of 2018 with a ceiling price of \$3.62, a floor price of \$3.00, and a sold put price of \$2.50.

The mark-to-market impact and settlement of these commodity derivative instruments appears in sales and other operating revenues in our consolidated statements of income for the years ended December 31, 2016 and 2015. There were no commodity derivative instruments during 2014. The 2016 impact was a net loss of \$66 million compared to a net gain of \$128 million in 2015. Net settlements of commodity derivative instruments for the years ended December 31, 2016 and 2015 was \$44 million compared to \$78 million, comparatively.

On June 1, 2015, we entered into Treasury rate locks, which expired on the same day, to hedge against timing differences as it related to our Notes offering (see Note 17). Following the execution of the Treasury locks, corresponding interest rates increased during the day of June 1. As a result, the settlement of the Treasury rate locks resulted in a gain of \$6 million, which was recognized in net interest and other in our consolidated statements of income.

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17. Debt

Short-term debt

As of December 31, 2016, we had no borrowings against our unsecured revolving credit facility (as amended, the "Credit Facility"), as described below.

Revolving Credit Facility

In March 2016, we increased our \$3.0 billion unsecured Credit Facility to \$3.3 billion and maintained a maturity date of May 2020. Fees on the unused commitment of each lender, as well as the borrowing options under the Credit Facility, remain unaffected by this increase. We have the ability to request two one-year extensions and an option to increase the commitment amount by up to an additional \$200 million, subject to the consent of any increasing lenders. The sub-facilities for swing-line loans and letters of credit remain unchanged allowing up to an aggregate amount of \$100 million and \$500 million, respectively. Fees on the unused commitment of each lender, as well as the borrowing options under the Credit Facility, remain unchanged.

The Credit Facility includes a covenant requiring that our ratio of total debt to total capitalization not exceed 65% as of the last day of each fiscal quarter. If an event of default occurs, the lenders holding more than half of the commitments may terminate the commitments under the Credit Facility and require the immediate repayment of all outstanding borrowings and the cash collateralization of all outstanding letters of credit under the Credit Facility. As of December 31, 2016, we were in compliance with this covenant with a debt-to-capitalization ratio of 29%.

Long-term debt

The following table details our long-term debt:

| <i>(In millions)</i> | December 31, | |
|---|---------------------|-----------------|
| | 2016 | 2015 |
| Senior unsecured notes: | | |
| 6.000% notes due 2017 ^(a) | 682 | 682 |
| 5.900% notes due 2018 ^(a) | 854 | 854 |
| 7.500% notes due 2019 ^(a) | 228 | 228 |
| 2.700% notes due 2020 ^(a) | 600 | 600 |
| 2.800% notes due 2022 ^(a) | 1,000 | 1,000 |
| 9.375% notes due 2022 ^(b) | 32 | 32 |
| Series A notes due 2022 ^(b) | 3 | 3 |
| 8.500% notes due 2023 ^(b) | 70 | 70 |
| 8.125% notes due 2023 ^(b) | 131 | 131 |
| 3.850% notes due 2025 ^(a) | 900 | 900 |
| 6.800% notes due 2032 ^(a) | 550 | 550 |
| 6.600% notes due 2037 ^(a) | 750 | 750 |
| 5.200% notes due 2045 ^(a) | 500 | 500 |
| Capital leases: | | |
| Capital lease obligation of consolidated subsidiary due 2017 – 2049 | 9 | 9 |
| Other obligations: | | |
| 5.125% obligation relating to revenue bonds due 2037 | 1,000 | 1,000 |
| Total^(b) | 7,309 | 7,309 |
| Unamortized discount | (9) | (10) |
| Fair value adjustments ^(c) | 7 | 17 |
| Unamortized debt issuance cost | (35) | (39) |
| Amounts due within one year | (683) | (1) |
| Total long-term debt | \$ 6,589 | \$ 7,276 |

^(a) These notes contain a make-whole provision allowing us to repay the debt at a premium to market price.

^(b) In the event of a change in control, as defined in the related agreements, debt obligations totaling \$236 million at December 31, 2016 may be declared immediately due and payable.

^(c) See Notes 15 and 16 for information on interest rate swaps.

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Debt Issuance

On June 10, 2015, we issued \$2 billion aggregate principal amount of unsecured senior notes which consist of the following series:

- \$600 million of 2.70% senior notes due June 1, 2020
- \$900 million of 3.85% senior notes due June 1, 2025
- \$500 million of 5.20% senior notes due June 1, 2045

Interest on each series of senior notes is payable semi-annually beginning December 1, 2015. We may redeem some or all of the senior notes at any time at the applicable redemption price, plus accrued interest, if any. The aggregate net proceeds were used to repay our \$1 billion 0.90% senior notes that matured in November 2015, and the remainder for general corporate purposes.

The following table shows future debt payments:

(In millions)

| | | |
|---|----|-------|
| 2017 | \$ | 683 |
| 2018 | | 854 |
| 2019 | | 228 |
| 2020 | | 600 |
| 2021 | | — |
| Thereafter | | 4,944 |
| Total long-term debt, including current portion | \$ | 7,309 |

18. Asset Retirement Obligations

Asset retirement obligations primarily consist of estimated costs to remove, dismantle and restore land or seabed at the end of oil and gas production operations, including bitumen mining operations. Changes in asset retirement obligations were as follows:

| <i>(In millions)</i> | For Year Ended December 31, | |
|--|------------------------------------|-------------|
| | 2016 | 2015 |
| Beginning balance | \$ 1,635 | \$ 1,958 |
| Incurring liabilities, including acquisitions | 15 | 47 |
| Settled liabilities, including dispositions | (74) | (289) |
| Accretion expense (included in depreciation, depletion and amortization) | 85 | 105 |
| Revisions of estimates | 94 | (132) |
| Held for sale | (7) | (54) |
| Ending balance | \$ 1,748 | \$ 1,635 |

2016

- *Settled liabilities* include dispositions, primarily related to the Gulf of Mexico and Wyoming as well as retirements in the Gulf of Mexico.
- *Revisions of estimates* were primarily due to changes in timing of abandonment activities as well as changes in cost estimated in the U.K.
- *Ending balance* includes \$50 million classified as short-term at December 31, 2016.

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2015

- *Settled liabilities* include dispositions, primarily in the Gulf of Mexico and the East Texas, North Louisiana and Wilburton, Oklahoma as well as retirements in the Gulf of Mexico and the U.K.
- *Revisions of estimates* were primarily due to changes in timing of activities in the U.K. and lower estimated costs across the assets.
- *Held for sale* is related to our Neptune field in the Gulf of Mexico.
- *Ending balance* includes \$34 million classified as short-term at December 31, 2015.

19. Supplemental Cash Flow Information

| <i>(In millions)</i> | Year Ended December 31, | | |
|--|--------------------------------|-------------|-------------|
| | 2016 | 2015 | 2014 |
| Net cash used in operating activities: | | | |
| Interest paid (net of amounts capitalized) | \$ (375) | \$ (325) | \$ (279) |
| Income taxes paid to taxing authorities ^(a) | (84) | (171) | (1,679) |
| Net cash provided by (used in) financing activities: | | | |
| Commercial paper, net: | | | |
| Issuances | \$ — | \$ — | \$ 2,345 |
| Repayments | — | — | (2,480) |
| Commercial paper, net | \$ — | \$ — | \$ (135) |
| Noncash investing activities, related to continuing operations: | | | |
| Asset retirement cost increase (decrease) | \$ 111 | \$ (85) | \$ 151 |
| Asset retirement obligations assumed by buyer | 40 | 251 | 359 |
| Increase in capital expenditure accrual | — | — | 335 |

^(a) Income taxes paid to taxing authorities includes \$1,312 million in 2014 related to discontinued operations.

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20. Defined Benefit Postretirement Plans and Defined Contribution Plan

We have noncontributory defined benefit pension plans covering substantially all domestic employees, as well as U.K. employees who were hired before April 2010. Certain employees located in E.G., who are U.S. or U.K. based, also participate in these plans. Benefits under these plans are based on plan provisions specific to each plan. For the U.K. pension plan, the principal employer and plan trustees reached a decision to close the plan to future benefit accruals effective December 31, 2015.

We also have defined benefit plans for other postretirement benefits covering our U.S. employees. Health care benefits are provided up to age 65 through comprehensive hospital, surgical and major medical benefit provisions subject to various cost-sharing features. Post-age 65 health care benefits are provided to certain U.S. employees on a defined contribution basis. Life insurance benefits are provided to certain retiree beneficiaries. These other postretirement benefits are not funded in advance. Employees hired after 2016 are not eligible for any postretirement health care or life insurance benefits.

Obligations and funded status – The following summarizes the obligations and funded status for our defined benefit pension and other postretirement plans.

| <i>(In millions)</i> | Pension Benefits | | | | Other Benefits | |
|--|------------------|--------|----------|--------|----------------|----------|
| | 2016 | | 2015 | | 2016 | 2015 |
| | U.S. | Int'l | U.S. | Int'l | U.S. | U.S. |
| Accumulated benefit obligation | 386 | 583 | 518 | 579 | 227 | 260 |
| Change in benefit obligations: | | | | | | |
| Beginning balance | \$ 525 | \$ 579 | \$ 894 | \$ 651 | \$ 260 | \$ 279 |
| Service cost | 25 | — | 29 | 14 | 2 | 3 |
| Interest cost | 16 | 23 | 25 | 25 | 11 | 11 |
| Plan amendment ^(a) | — | 1 | (88) | 1 | (38) | — |
| Actuarial loss (gain) | 78 | 139 | 26 | (29) | 11 | (20) |
| Foreign currency exchange rate changes | — | (108) | — | (35) | — | — |
| Divestiture | — | — | — | — | — | — |
| Liability (gain)/loss due to curtailment ^(b) | — | — | (18) | (23) | — | 2 |
| Settlements paid | (240) | (36) | (335) | — | — | — |
| Benefits paid | (7) | (15) | (8) | (25) | (19) | (15) |
| Ending balance | \$ 397 | \$ 583 | \$ 525 | \$ 579 | \$ 227 | \$ 260 |
| Change in fair value of plan assets: | | | | | | |
| Beginning balance | \$ 354 | \$ 608 | \$ 574 | \$ 622 | \$ — | \$ — |
| Actual return on plan assets | 25 | 129 | 8 | 8 | — | — |
| Employer contributions | 95 | 18 | 115 | 36 | 20 | 15 |
| Foreign currency exchange rate changes | — | (109) | — | (33) | — | — |
| Divestiture | — | — | — | — | — | — |
| Settlements paid | (240) | (36) | (335) | — | — | — |
| Benefits paid | (7) | (15) | (8) | (25) | (20) | (15) |
| Ending balance | \$ 227 | \$ 595 | \$ 354 | \$ 608 | \$ — | \$ — |
| Funded status of plans at December 31 | \$ (170) | \$ 12 | \$ (171) | \$ 29 | \$ (227) | \$ (260) |
| Amounts recognized in the consolidated balance sheets: | | | | | | |
| Noncurrent assets | — | 12 | — | 29 | — | — |
| Current liabilities | (4) | — | (8) | — | (21) | (20) |
| Noncurrent liabilities | (166) | — | (163) | — | (206) | (240) |
| Accrued benefit cost | \$ (170) | \$ 12 | \$ (171) | \$ 29 | \$ (227) | \$ (260) |
| Pretax amounts in accumulated other comprehensive loss: | | | | | | |
| Net loss (gain) | \$ 130 | \$ 81 | \$ 171 | \$ 61 | \$ 25 | \$ 14 |
| Prior service cost (credit) | (55) | 4 | (65) | 4 | (63) | (28) |

^(a) The plan amendment in 2015 was a freeze of the final average pay used in the legacy formula of the defined benefit pension plan.

^(b) Related to workforce reductions, which reduced the future expected years of service for employees participating in the plans and the impact of discontinuing accruals for future benefits under the U.K. pension plan effective December 31, 2015.

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Components of net periodic benefit cost from continuing operations and other comprehensive (income) loss – The following summarizes the net periodic benefit costs and the amounts recognized as other comprehensive (income) loss for our defined benefit pension and other postretirement plans.

| <i>(In millions)</i> | Pension Benefits | | | | | | Other Benefits | | |
|--|-------------------------|---------------|-----------------|----------------|---------------|--------------|-------------------------|---------------|--------------|
| | Year Ended December 31, | | | | | | Year Ended December 31, | | |
| | 2016 | | 2015 | | 2014 | | 2016 | 2015 | 2014 |
| | U.S. | Int'l | U.S. | Int'l | U.S. | Int'l | U.S. | U.S. | U.S. |
| Components of net periodic benefit cost: | | | | | | | | | |
| Service cost | \$ 25 | \$ — | \$ 29 | \$ 14 | \$ 31 | \$ 16 | \$ 2 | \$ 3 | \$ 3 |
| Interest cost | 16 | 23 | 25 | 25 | 35 | 27 | 11 | 11 | 13 |
| Expected return on plan assets | (18) | (35) | (30) | (37) | (34) | (32) | — | — | — |
| Amortization: | | | | | | | | | |
| - prior service cost (credit) | (10) | 1 | (7) | 1 | 5 | 1 | (3) | (4) | (6) |
| - actuarial loss | 14 | — | 22 | 2 | 29 | 1 | — | 1 | — |
| Net curtailment loss (gain) ^(a) | — | — | (5) | 4 | — | — | — | (7) | — |
| Net settlement loss ^(b) | 97 | 6 | 119 | — | 99 | — | — | — | — |
| Net periodic benefit cost ^(c) | <u>\$ 124</u> | <u>\$ (5)</u> | <u>\$ 153</u> | <u>\$ 9</u> | <u>\$ 165</u> | <u>\$ 13</u> | <u>\$ 10</u> | <u>\$ 4</u> | <u>\$ 10</u> |
| Other changes in plan assets and benefit obligations recognized in other comprehensive (income) loss (pretax): | | | | | | | | | |
| Actuarial loss (gain) ^(d) | \$ 70 | \$ 41 | \$ 30 | \$ (25) | \$ 149 | \$ 33 | \$ 11 | \$ (21) | \$ 42 |
| Amortization of actuarial gain (loss) | (111) | (6) | (134) | (2) | (128) | (1) | — | (1) | — |
| Prior service cost (credit) | — | 1 | (89) | 1 | — | — | (38) | — | (42) |
| Amortization of prior service credit (cost) | 10 | (1) | 7 | (5) | (5) | (1) | 3 | 13 | 6 |
| Total recognized in other comprehensive (income) loss | <u>\$ (31)</u> | <u>\$ 35</u> | <u>\$ (186)</u> | <u>\$ (31)</u> | <u>\$ 16</u> | <u>\$ 31</u> | <u>\$ (24)</u> | <u>\$ (9)</u> | <u>\$ 6</u> |
| Total recognized in net periodic benefit cost and other comprehensive (income) loss | <u>\$ 93</u> | <u>\$ 30</u> | <u>\$ (33)</u> | <u>\$ (22)</u> | <u>\$ 181</u> | <u>\$ 44</u> | <u>\$ (14)</u> | <u>\$ (5)</u> | <u>\$ 16</u> |

^(a) Related to workforce reductions, which reduced the future expected years of service for employees participating in the plans and the impact of discontinuing accruals for future benefits under the U.K. pension plan effective December 31, 2015.

^(b) Settlement losses are recorded when lump sum payments from a plan in a period exceed the plan's total service and interest costs for the period.

^(c) Net periodic benefit cost reflects a calculated market-related value of plan assets which recognizes changes in fair value over three years.

^(d) Activity in 2014 includes the impact of the sale of our Norway business in the fourth quarter of 2014.

The estimated net loss and prior service credit for our defined benefit pension plans that will be amortized from accumulated other comprehensive loss into net periodic benefit cost in 2017 are \$10 million and \$10 million. The estimated prior service credit for our other defined benefit postretirement plans that will be amortized from accumulated other comprehensive loss into net periodic benefit cost in 2017 is \$7 million.

Plan assumptions – The following summarizes the assumptions used to determine the benefit obligations at December 31, and net periodic benefit cost for the defined benefit pension and other postretirement plans for 2016, 2015 and 2014.

| <i>(In millions)</i> | Pension Benefits | | | | | | Other Benefits | | |
|---|------------------|-------|-------|-------|-------|-------|----------------|-------|-------|
| | 2016 | | 2015 | | 2014 | | 2016 | 2015 | 2014 |
| | U.S. | Int'l | U.S. | Int'l | U.S. | Int'l | U.S. | U.S. | U.S. |
| Weighted average assumptions used to determine benefit obligation: | | | | | | | | | |
| Discount rate | 4.02% | 2.70% | 4.04% | 3.90% | 3.71% | 3.70% | 3.98% | 4.36% | 4.01% |
| Rate of compensation increase ^(a) | 4.00% | — | 4.00% | — | 4.00% | 3.60% | 4.00% | 4.00% | 4.00% |
| Weighted average assumptions used to determine net periodic benefit cost: | | | | | | | | | |
| Discount rate | 3.66% | 3.90% | 3.79% | 3.70% | 3.98% | 4.60% | 4.36% | 3.93% | 4.69% |
| Expected long-term return on plan assets | 6.75% | 5.50% | 6.75% | 5.70% | 6.75% | 5.70% | — | — | — |
| Rate of compensation increase ^(a) | 4.00% | — | 4.00% | 3.60% | 5.00% | 4.90% | 4.00% | 4.00% | 5.00% |

^(a) No future benefits will be incurred for the U.K. plan after December 31, 2015. Therefore, rate of compensation increase is no longer applicable to this plan.

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Expected long-term return on plan assets – The expected long-term return on plan assets assumption for our U.S. funded plan is determined based on an asset rate-of-return modeling tool developed by a third-party investment group which utilizes underlying assumptions based on actual returns by asset category and inflation and takes into account our U.S. pension plan’s asset allocation. To determine the expected long-term return on plan assets assumption for our international plans, we consider the current level of expected returns on risk-free investments (primarily government bonds), the historical levels of the risk premiums associated with the other applicable asset categories and the expectations for future returns of each asset class. The expected return for each asset category is then weighted based on the actual asset allocation to develop the overall expected long-term return on plan assets assumption.

Assumed weighted average health care cost trend rates

| | 2016 | 2015 | 2014 |
|-------------------------------------|-------|-------|-------|
| Initial health care trend rate | 8.25% | 8.00% | 6.88% |
| Ultimate trend rate | 4.50% | 4.50% | 5.00% |
| Year ultimate trend rate is reached | 2025 | 2024 | 2024 |

Employer provided subsidies for post-65 retiree health care coverage were frozen effective January 1, 2017 at January 1, 2016 established amount levels. Company contributions are funded to a Health Reimbursement Account on the retiree’s behalf to subsidize the retiree’s cost of obtaining health care benefits through a private exchange. Therefore, a 1% change in health care cost trend rates would not have a material impact on either the service and interest cost components and the postretirement benefit obligations.

Plan investment policies and strategies – The investment policies for our U.S. and international pension plan assets reflect the funded status of the plans and expectations regarding our future ability to make further contributions. Long-term investment goals are to: (1) manage the assets in accordance with applicable legal requirements; (2) produce investment returns which meet or exceed the rates of return achievable in the capital markets while maintaining the risk parameters set by the plan’s investment committees and protecting the assets from any erosion of purchasing power; and (3) position the portfolios with a long-term risk/return orientation. Investment performance and risk is measured and monitored on an ongoing basis through quarterly investment meetings and periodic asset and liability studies.

U.S. plan – The plan’s current targeted asset allocation is comprised of 55% equity securities and 45% other fixed income securities. Over time, as the plan’s funded ratio (as defined by the investment policy) improves, in order to reduce volatility in returns and to better match the plan’s liabilities, the allocation to equity securities will decrease while the amount allocated to fixed income securities will increase. The plan’s assets are managed by a third-party investment manager.

International plan – Our international plan’s target asset allocation is comprised of 60% equity securities and 40% fixed income securities. The plan assets are invested in eight separate portfolios, mainly pooled fund vehicles, managed by several professional investment managers whose performance is measured independently by a third-party asset servicing consulting firm.

Fair value measurements – Plan assets are measured at fair value. The following provides a description of the valuation techniques employed for each major plan asset class at December 31, 2016 and 2015.

Cash and cash equivalents – Cash and cash equivalents are valued using a market approach and are considered Level 1. This investment also includes a cash reserve account (a collective short-term investment fund) that is valued using an income approach and is considered Level 2.

Equity securities – Investments in common stock, preferred stock, and real estate investment trusts ("REIT") are valued using a market approach at the closing price reported in an active market and are therefore considered Level 1. Private equity investments include interests in limited partnerships which are valued based on the sum of the estimated fair values of the investments held by each partnership. These private equity investments are considered Level 3. Investments in mutual funds are valued using a market approach. The shares or units held are traded on the public exchanges and are therefore considered Level 1. Investments in pooled funds are valued using a market approach at the net asset value ("NAV") of units held. The various funds consist of either an equity or fixed income investment portfolio with underlying investments held in U.S. and non-U.S. securities. Nearly all of the underlying investments are publicly-traded. The majority of the pooled funds are benchmarked against a relative public index. These are considered Level 2.

Fixed income securities – Fixed income securities are valued using a market approach. U.S. treasury notes and exchange traded funds ("ETFs") are valued at the closing price reported in an active market and are considered Level 1. Corporate bonds and other bonds are valued using calculated yield curves created by models that incorporate various market factors. Primarily investments are held in U.S. and non-U.S. corporate bonds in diverse industries and are considered Level 2. Other bonds

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primarily consist of securities issued by governmental agencies and municipalities. The investment in the commingled fund is valued using the NAV of units held and is considered Level 2. The commingled fund consists of an equity and fixed income portfolio with underlying investments held in U.S. and non-U.S. securities. Pooled funds primarily have investments held in U.S. and non-U.S. publicly traded investment grade government and corporate bonds.

Other – Other investments are comprised of an international insurance carrier contract and the majority of the underlying investments consist of a mix of non-U.S. publicly traded equity securities valued at the closing price reported in an active market and fixed income securities valued using calculated yield curves. This asset is considered Level 2. The other investments, an unallocated annuity contract, two limited liability companies and real estate are considered Level 3, as significant inputs to determine fair value are unobservable.

The following tables present the fair values of our defined benefit pension plan's assets, by level within the fair value hierarchy, as of December 31, 2016 and 2015.

| <i>(In millions)</i> | December 31, 2016 | | | | | | | |
|----------------------------------|--------------------------|--------------|----------------|--------------|----------------|--------------|--------------|--------------|
| | Level 1 | | Level 2 | | Level 3 | | Total | |
| | U.S. | Int'l | U.S. | Int'l | U.S. | Int'l | U.S. | Int'l |
| Cash and cash equivalents | \$ 8 | \$ 5 | \$ — | \$ — | \$ — | \$ — | \$ 8 | \$ 5 |
| Equity securities: | | | | | | | | |
| Common and preferred stock | 82 | — | — | — | — | — | 82 | — |
| REIT and private equity | — | — | — | — | 20 | — | 20 | — |
| Mutual and pooled funds | — | 201 | — | 159 | — | — | — | 360 |
| Fixed income securities: | | | | | | | | |
| U.S. treasury notes and ETFs | 11 | — | — | — | — | — | 11 | — |
| Corporate and other bonds | — | — | 60 | — | — | — | 60 | — |
| Pooled funds | — | — | 11 | 230 | — | — | 11 | 230 |
| REIT and swaps | — | — | — | — | — | — | — | — |
| Other | — | — | — | — | 21 | — | 21 | — |
| Total investments, at fair value | 101 | 206 | 71 | 389 | 41 | — | 213 | 595 |
| Commingled funds ^(a) | | | | | | | 14 | — |
| Total investments | \$ 101 | \$ 206 | \$ 71 | \$ 389 | \$ 41 | \$ — | \$ 227 | \$ 595 |

| <i>(In millions)</i> | December 31, 2015 | | | | | | | |
|----------------------------------|--------------------------|--------------|----------------|--------------|----------------|--------------|--------------|--------------|
| | Level 1 | | Level 2 | | Level 3 | | Total | |
| | U.S. | Int'l | U.S. | Int'l | U.S. | Int'l | U.S. | Int'l |
| Cash and cash equivalents | \$ 47 | \$ 6 | \$ 1 | \$ — | \$ — | \$ — | \$ 48 | \$ 6 |
| Equity securities: | | | | | | | | |
| Common and preferred stock | 115 | — | — | — | — | — | 115 | — |
| REIT and private equity | 1 | — | — | — | 23 | — | 24 | — |
| Mutual and pooled funds | — | 218 | — | 152 | — | — | — | 370 |
| Fixed income securities: | | | | | | | | |
| U.S. treasury notes and ETFs | 12 | — | — | — | — | — | 12 | — |
| Corporate and other bonds | — | — | 105 | — | — | — | 105 | — |
| Pooled funds | — | — | — | 232 | — | — | — | 232 |
| REIT and Swaps | — | — | 2 | — | — | — | 2 | — |
| Other | — | — | — | — | 25 | — | 25 | — |
| Total investments, at fair value | 175 | 224 | 108 | 384 | 48 | — | 331 | 608 |
| Commingled funds ^(a) | | | | | | | 23 | — |
| Total investments | \$ 175 | \$ 224 | \$ 108 | \$ 384 | \$ 48 | \$ — | \$ 354 | \$ 608 |

^(a) After the adoption of the FASB update for the fair value hierarchy, we separately report the investments for which fair value was measured using the net asset value per share as a practical expedient. Amounts presented in this table are intended to reconcile the fair value hierarchy to the pension plan assets. See Note 2 for further information on the FASB update.

The activity during the year ended December 31, 2016 and 2015, for the assets using Level 3 fair value measurements was immaterial.

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Cash flows

Estimated future benefit payments – The following gross benefit payments, which were estimated based on actuarial assumptions applied at December 31, 2016 and reflect expected future services, as appropriate, are to be paid in the years indicated.

| <i>(In millions)</i> | Pension Benefits | | Other Benefits | |
|----------------------|-------------------------|--------------|-----------------------|-------------|
| | U.S. | Int'l | U.S. | U.S. |
| 2017 | \$ 34 | \$ 17 | \$ 21 | 21 |
| 2018 | 35 | 17 | 21 | 21 |
| 2019 | 34 | 18 | 20 | 20 |
| 2020 | 35 | 18 | 19 | 19 |
| 2021 | 34 | 20 | 19 | 19 |
| 2022 through 2025 | 163 | 116 | 78 | 78 |

Contributions to defined benefit plans – We expect to make contributions to the funded pension plans of up to \$60 million in 2017. Cash contributions to be paid from our general assets for the unfunded pension and postretirement plans are expected to be approximately \$5 million and \$21 million in 2017.

Contributions to defined contribution plans – We contribute to several defined contribution plans for eligible employees. Contributions to these plans totaled \$20 million, \$20 million and \$25 million in 2016, 2015 and 2014.

21. Incentive Based Compensation

Description of stock-based compensation plans – The Marathon Oil Corporation 2016 Incentive Compensation Plan (the "2016 Plan") was approved by our stockholders in May 2016 and authorizes the Compensation Committee of the Board of Directors to grant stock options, SARs, stock awards (including restricted stock and restricted stock unit awards) and performance unit awards to employees. The 2016 Plan also allows us to provide equity compensation to our non-employee directors. No more than 55 million shares of our common stock may be issued under the 2016 Plan. For stock options and SARs, the number of shares available for issuance under the 2016 Plan will be reduced by one share for each share of our common stock in respect of which the award is granted. For stock awards (including restricted stock and restricted stock unit awards), the number of shares available for issuance under the 2016 Plan will be reduced by 2.41 shares for each share of our common stock in respect of which the award is granted.

Shares subject to awards under the 2016 Plan that are forfeited, are terminated or expire unexercised become available for future grants. In addition, the number of shares of our common stock reserved for issuance under the 2016 Plan will not be increased by shares tendered to satisfy the purchase price of an award, exchanged for other awards or withheld to satisfy tax withholding obligations. Shares issued as a result of awards granted under the 2016 Plan are generally funded out of common stock held in treasury, except to the extent there are insufficient treasury shares, in which case new common shares are issued.

After approval of the 2016 Plan, no new grants were or will be made from any prior plans. Any awards previously granted under any prior plans shall continue to be exercisable in accordance with their original terms and conditions.

Stock-based awards under the plans

Stock options – We grant stock options under the 2016 Plan. Our stock options represent the right to purchase shares of our common stock at its fair market value on the date of grant. In general, our stock options vest ratably over a three-year period and have a maximum term of ten years from the date they are granted.

SARs - At December 31, 2016, there are no SARs outstanding.

Restricted stock – We grant restricted stock under the 2016 Plan. The restricted stock awards granted to officers generally vest three years from the date of grant, contingent on the recipient's continued employment. We also grant restricted stock to certain non-officer employees based on their performance within certain guidelines and for retention purposes. The restricted stock awards to non-officers generally vest ratably over a three-year period, contingent on the recipient's continued employment. Prior to vesting, all restricted stock recipients have the right to vote such stock and receive dividends thereon. The non-vested shares of restricted stock are not transferable and are held by our transfer agent.

Stock-based performance units – We grant stock-based performance units to officers under the 2016 Plan. At the grant date, each unit represents the value of one share of our common stock. These units are settled in cash, and the amount of the payment is based on (1) the vesting percentage, which can be from zero to 200% based on performance achieved and (2) the

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value of our common stock on the date vesting is determined by the Compensation Committee of the Board of Directors. The performance goals are tied to our total shareholder return (“TSR”) as compared to TSR for a group of peer companies determined by the Compensation Committee of our Board of Directors. Dividend equivalents may accrue during the performance period and would be paid in cash at the end of the performance period based on the number of shares that would represent the value of the units.

Restricted stock units – We maintain an equity compensation program for our non-employee directors under the 2016 Plan. All non-employee directors receive annual grants of common stock units. Common shares will generally be issued for units granted on or after January 1, 2012 following completion of board service or three years from the date of grant, whichever is earlier. Directors may elect to defer units granted in 2017 or subsequent years until after completion of board service. Any units granted prior to 2012 must be held until completion of board service, at which time the non-employee director will receive common shares. We also grant restricted stock units to certain non-officer international employees which generally vest ratably over a three-year period, contingent on the recipient's continued employment. Grants of restricted stock units to these non-officer international employees are based on their performance and for retention purposes. Common shares will be issued for these restricted stock units after vesting. Prior to vesting, recipients of restricted stock units typically receive dividend equivalent payments, but they may not vote.

Total stock-based compensation expense – Total employee stock-based compensation expense was \$51 million, \$57 million and \$70 million in 2016, 2015 and 2014, while the total related income tax benefits were \$19 million, \$20 million and \$25 million in the same years. In 2016, 2015 and 2014, cash received upon exercise of stock option awards was \$1 million, \$9 million and \$136 million. Tax benefits realized for deductions for stock awards settled during 2014 totaled \$51 million. There were no tax benefits realized for deductions for stock awards settled during 2015 and 2016.

Stock option awards – During 2016 and 2015, we granted stock option awards to officer employees. During 2014, we granted stock option awards to both officer and non-officer employees. The weighted average grant date fair value of these awards was based on the following weighted average Black-Scholes assumptions:

| | 2016 | 2015 | 2014 |
|---|--------|---------|---------|
| Exercise price per share | \$7.22 | \$29.06 | \$34.49 |
| Expected annual dividend yield | 2.8% | 2.9% | 2.3% |
| Expected life in years | 6.3 | 6.2 | 5.9 |
| Expected volatility | 36% | 32% | 38% |
| Risk-free interest rate | 1.4% | 1.7% | 1.8% |
| Weighted average grant date fair value of stock option awards granted | \$1.97 | \$6.84 | \$10.50 |

The following is a summary of stock option award activity in 2016.

| | Number of Shares | Weighted Average Exercise Price | Weighted Average Remaining Contractual Term | Average Intrinsic Value (in millions) |
|----------------------------------|---------------------|------------------------------------|---|---|
| Outstanding at beginning of year | 12,665,419 | \$29.97 | | |
| Granted | 1,680,000 | \$7.22 | | |
| Exercised | (46,191) | \$17.44 | | |
| Canceled | (2,383,695) | \$25.47 | | |
| Outstanding at end of year | 11,915,533 | \$27.71 | 4 years | \$ — |
| Exercisable at end of year | 9,856,556 | \$30.15 | 3 years | \$ — |
| Expected to vest | 2,051,140 | \$16.05 | 9 years | \$ — |

The intrinsic value of stock option awards exercised during 2015 and 2014 were \$6 million and \$83 million. The intrinsic value in 2016 is not material.

As of December 31, 2016, unrecognized compensation cost related to stock option awards was \$3 million, which is expected to be recognized over a weighted average period of one year.

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Restricted stock awards and restricted stock units – The following is a summary of restricted stock and restricted stock unit award activity in 2016.

| | Awards | Weighted Average Grant Date Fair Value |
|-------------------------------|-------------|--|
| Unvested at beginning of year | 4,017,344 | \$30.76 |
| Granted | 5,725,655 | \$8.57 |
| Vested & Exercised | (1,498,431) | \$31.67 |
| Canceled | (1,311,035) | \$19.13 |
| Unvested at end of year | 6,933,533 | \$14.44 |

The vesting date fair value of restricted stock awards which vested during 2016, 2015 and 2014 was \$16 million, \$26 million and \$70 million. The weighted average grant date fair value of restricted stock awards was \$14.44, \$30.76 and \$34.04 for awards unvested at December 31, 2016, 2015 and 2014.

As of December 31, 2016 there was \$63 million of unrecognized compensation cost related to restricted stock awards which is expected to be recognized over a weighted average period of one year.

Stock-based performance unit awards – During 2016, 2015 and 2014 we granted 1,205,517, 382,335 and 221,491 stock-based performance unit awards to officers. At December 31, 2016, there were 1,249,719 units outstanding. Total stock-based performance unit awards expense was \$6 million in both 2016 and 2014. We had no stock-based performance unit awards expense in 2015.

The key assumptions used in the Monte Carlo simulation to determine the fair value of stock-based performance units granted in 2016, 2015 and 2014 were:

| | 2016 | 2015 | 2014 ^(a) |
|---|---------|---------|---------------------|
| Valuation date stock price | \$17.31 | \$17.31 | n/a |
| Expected annual dividend yield | 1.1% | 1.1% | n/a |
| Expected volatility | 58% | 68% | n/a |
| Risk-free interest rate | 1.3% | 0.9% | n/a |
| Fair value of stock-based performance units outstanding | \$19.37 | \$11.17 | n/a |

^(a) As of December 31, 2016, there were no 2014 performance unit awards outstanding.

22. Reclassifications Out of Accumulated Other Comprehensive Loss

The following table presents a summary of amounts reclassified from accumulated other comprehensive loss:

| <i>(In millions)</i> | Year Ended December 31, | | Income Statement Line |
|---|-------------------------|---------|-------------------------------|
| | 2016 | 2015 | |
| Postretirement and postemployment plans | | | |
| Amortization of actuarial loss | \$ (14) | \$ (24) | General and administrative |
| Net settlement loss | (103) | (119) | General and administrative |
| Net curtailment gain | — | 8 | General and administrative |
| Derivative hedges | | | |
| Ineffective portion of derivative hedge | 4 | — | Net interest and other |
| | (113) | (135) | Income (loss) from operations |
| | 41 | 51 | Benefit for income taxes |
| Total reclassifications to expense | \$ (72) | \$ (84) | Net income (loss) |

23. Stockholders' Equity

In March 2016, we issued 166,750,000 shares of our common stock, par value \$1 per share, at a price of \$7.65 per share, excluding underwriting discounts and commissions, for net proceeds of \$1,236 million. The proceeds were used to strengthen our balance sheet and for general corporate purposes, including funding a portion of our Capital Program.

There were no share repurchases during 2016 or 2015. In 2014 we acquired 29 million common shares at a cost of \$1 billion under our share repurchase program, initially authorized in 2006, bringing our total repurchases to 121 million common

MARATHON OIL CORPORATION
Notes to Consolidated Financial Statements

shares at a cost of \$4.7 billion. As of December 31, 2016 the total remaining share repurchase authorization was \$1.5 billion. Purchases under the program may be in either open market transactions, including block purchases, or in privately negotiated transactions using cash on hand, cash generated from operations, proceeds from potential asset sales or cash from available borrowings to acquire shares. This program may be changed based upon our financial condition or changes in market conditions and is subject to termination prior to completion. The repurchase program does not include specific price targets or timetables.

24. Leases

We lease a wide variety of facilities and equipment under operating leases, including land, building space, equipment and vehicles. Most long-term leases include renewal options and, in certain leases, purchase options. Future minimum commitments for capital lease obligations and for operating lease obligations having noncancellable lease terms in excess of one year are as follows:

| <i>(In millions)</i> | Capital Lease Obligations | Operating Lease Obligations |
|---|--------------------------------------|--|
| 2017 | \$ 2 | \$ 28 |
| 2018 | 1 | 28 |
| 2019 | 1 | 27 |
| 2020 | 1 | 27 |
| 2021 | 1 | 26 |
| Later years | 15 | 19 |
| Sublease rentals | — | — |
| Total minimum lease payments | <u>\$ 21</u> | <u>\$ 155</u> |
| Less imputed interest costs | <u>(12)</u> | |
| Present value of net minimum lease payments | <u>\$ 9</u> | |

Operating lease rental expense related to continuing operations was \$93 million, \$104 million and \$120 million in 2016, 2015 and 2014.

25. Commitments and Contingencies

We are a defendant in a number of legal and administrative proceedings arising in the ordinary course of business including, but not limited to, royalty claims, contract claims, tax disputes and environmental claims. While the ultimate outcome and impact to us cannot be predicted with certainty, we believe the resolution of these proceedings will not have a material adverse effect on our consolidated financial position, results of operations or cash flows. Certain of these matters are discussed below.

Environmental matters – We are subject to federal, state, local and foreign laws and regulations relating to the environment. These laws generally provide for control of pollutants released into the environment and require responsible parties to undertake remediation of hazardous waste disposal sites. Penalties may be imposed for noncompliance.

At December 31, 2016 and 2015, accrued liabilities for remediation were not significant. It is not presently possible to estimate the ultimate amount of all remediation costs that might be incurred or the penalties that may be imposed.

Guarantees – We have entered into a performance guarantee related to asset retirement obligations with aggregate maximum potential undiscounted payments totaling \$30 million as of December 31, 2016. Under the terms of this guarantee arrangement, we would be required to perform should the guaranteed party fail to fulfill its obligations under the specified arrangements.

Over the years, we have sold various assets in the normal course of our business. Certain of the related agreements contain performance and general guarantees, including guarantees regarding inaccuracies in representations, warranties, covenants and agreements, and environmental and general indemnifications that require us to perform upon the occurrence of a triggering event or condition. These guarantees and indemnifications are part of the normal course of selling assets. We are typically not able to calculate the maximum potential amount of future payments that could be made under such contractual provisions because of the variability inherent in the guarantees and indemnities. Most often, the nature of the guarantees and indemnities is such that there is no appropriate method for quantifying the exposure because the underlying triggering event has little or no past experience upon which a reasonable prediction of the outcome can be based.

MARATHON OIL CORPORATION
Notes to Consolidated Financial Statements

Contract commitments – At December 31, 2016 and 2015, contractual commitments to acquire property, plant and equipment totaled \$144 million and \$371 million.

In connection with the sale of our operated producing properties in the greater Ewing Bank area and non-operated producing interests in the Petronius and Neptune fields in the Gulf of Mexico, we retained an overriding royalty interest in the properties. As part of the sale agreement, proceeds associated with the production of our override, up to \$70 million, are dedicated solely to the satisfaction of the corresponding future abandonment obligations of the properties. The term of our override ends once sales proceeds equal \$70 million.

Select Quarterly Financial Data (Unaudited)

| <i>(In millions, except per share data)</i> | 2016 | | | | 2015 | | | |
|--|----------|----------|----------|------------|----------|----------|----------|----------|
| | 1st Qtr. | 2nd Qtr. | 3rd Qtr. | 4th Qtr. | 1st Qtr. | 2nd Qtr. | 3rd Qtr. | 4th Qtr. |
| Revenues | \$ 772 | \$ 959 | \$ 1,100 | \$ 1,200 | \$ 1,484 | \$ 1,490 | \$ 1,384 | \$ 1,164 |
| Income (loss) before income taxes ^(a) | (683) | (238) | (290) | (24) | (420) | (392) | (1,145) | (1,001) |
| Net income (loss) ^(b) | \$ (407) | \$ (170) | \$ (192) | \$ (1,371) | \$ (276) | \$ (386) | \$ (749) | \$ (793) |
| Basic net income (loss) per share | (\$0.56) | (\$0.20) | (\$0.23) | (\$1.62) | (\$0.41) | (\$0.57) | (\$1.11) | (\$1.17) |
| Diluted net income (loss) per share | (\$0.56) | (\$0.20) | (\$0.23) | (\$1.62) | (\$0.41) | (\$0.57) | (\$1.11) | (\$1.17) |
| Dividends paid per share | \$0.05 | \$0.05 | \$0.05 | \$0.05 | \$0.21 | \$0.21 | \$0.21 | \$0.05 |

^(a) Includes impairments to producing properties of \$47 million in the third quarter of 2016, \$28 million in the 4th quarter of 2015, \$333 million in the third quarter of 2015, and \$44 million in the second quarter of 2015. Also includes unproved property impairments of \$118 million in the second quarter of 2016, \$302 million in the fourth quarter of 2015, and \$553 million in the third quarter of 2015 (see Item 8. Financial Statements and Supplementary Data – Note 13 to the consolidated financial statements). Includes a goodwill impairment of \$340 million in 2015 related to the N.A. E&P reporting unit. (see Item 8. Financial Statements and Supplementary Data – Note 14 to the consolidated financial statements).

^(b) Includes the increase of a valuation allowance on certain of our deferred tax assets for \$1,346 million in the fourth quarter of 2016 (see Item 8. Financial Statements and Supplementary Data – Note 9 to the consolidated financial statements).

Supplementary Information on Oil and Gas Producing Activities (Unaudited)

The supplementary information is disclosed by the following geographic areas: the U.S.; Canada; E.G.; Other Africa, which primarily includes activities in Gabon, Kenya, Ethiopia and Libya; and Other International ("Other Int'l"), which includes the U.K. and the Kurdistan Region of Iraq. We closed the sale of our Angola assets and our Norway business in 2014, and both are shown as discontinued operations ("Disc Ops") in prior periods.

Estimated Quantities of Proved Oil and Gas Reserves

The estimation of net recoverable quantities of crude oil and condensate, natural gas liquids, natural gas and synthetic crude oil is a highly technical process which is based upon several underlying assumptions that are subject to change. Proved reserves are determined using "SEC Pricing", calculated as an unweighted arithmetic average of the first-day-of-the-month closing price for each month. If commodity pricing were to significantly drop-below average prices used to estimate 2016 proved reserves (see table below), we would expect price related reserve revisions that could have a material impact on proved reserve volumes and the present value of our proved reserves. In this scenario, our OSM proved reserves represent the largest risk to be reclassified to non-proved reserve or resource category. See Item 1A. Risk Factors and Item 7. Management's Discussion and Analysis of Financial Condition, Cash Flows and Liquidity – Critical Accounting Estimates – Estimated Quantities of Net Reserves for the table providing our 2016 SEC pricing of benchmark prices and the underlying assumptions used. For a discussion of our reserve estimation process, including the use of third-party audits, see Item 1. Business – Reserves.

The table below provides the 2016 SEC pricing for certain benchmark prices:

| | SEC Pricing 2016 |
|--|-------------------------|
| WTI Crude oil (<i>per bbl</i>) | \$ 42.75 |
| Henry Hub natural gas (<i>per mmbtu</i>) | \$ 2.49 |
| Brent crude oil (<i>per bbl</i>) | \$ 43.53 |
| Mont Belvieu NGLs (<i>per bbl</i>) | \$ 15.89 |

Supplementary Information on Oil and Gas Producing Activities (Unaudited)

Estimated Quantities of Proved Oil and Gas Reserves

| <i>(mmbbl)</i> | U.S. | Canada | E.G. ^(a) | Other Africa | Other Int'l | Cont Ops | Disc Ops | Total |
|---|-------|--------|---------------------|--------------|-------------|----------|----------|-------|
| Crude oil and condensate | | | | | | | | |
| Proved developed and undeveloped reserves: | | | | | | | | |
| Beginning of year - 2014 | 497 | — | 64 | 215 | 25 | 801 | 91 | 892 |
| Revisions of previous estimates | 36 | — | (1) | (4) | 1 | 32 | 10 | 42 |
| Improved recovery | 2 | — | — | — | — | 2 | — | 2 |
| Purchases of reserves in place | 6 | — | — | — | — | 6 | — | 6 |
| Extensions, discoveries and other additions | 153 | — | 1 | — | 7 | 161 | 3 | 164 |
| Production | (57) | — | (7) | (3) | (4) | (71) | (17) | (88) |
| Sales of reserves in place | (3) | — | — | — | — | (3) | (87) | (90) |
| End of year - 2014 | 634 | — | 57 | 208 | 29 | 928 | — | 928 |
| Revisions of previous estimates | (109) | — | 2 | (7) | (2) | (116) | — | (116) |
| Improved recovery | 1 | — | — | — | — | 1 | — | 1 |
| Purchases of reserves in place | — | — | — | — | — | — | — | — |
| Extensions, discoveries and other additions | 122 | — | — | — | — | 122 | — | 122 |
| Production | (62) | — | (7) | — | (5) | (74) | — | (74) |
| Sales of reserves in place | (6) | — | — | — | — | (6) | — | (6) |
| End of year - 2015 | 580 | — | 52 | 201 | 22 | 855 | — | 855 |
| Revisions of previous estimates | (97) | — | 1 | (28) | 3 | (121) | — | (121) |
| Improved recovery | 4 | — | — | — | — | 4 | — | 4 |
| Purchases of reserves in place | 12 | — | — | — | — | 12 | — | 12 |
| Extensions, discoveries and other additions | 189 | — | — | — | 1 | 190 | — | 190 |
| Production | (48) | — | (8) | (1) | (4) | (61) | — | (61) |
| Sales of reserves in place | (77) | — | — | — | — | (77) | — | (77) |
| End of year - 2016 | 563 | — | 45 | 172 | 22 | 802 | — | 802 |
| Proved developed reserves: | | | | | | | | |
| Beginning of year - 2014 | 241 | — | 37 | 176 | 19 | 473 | 77 | 550 |
| End of year - 2014 | 294 | — | 30 | 175 | 19 | 518 | — | 518 |
| End of year - 2015 | 327 | — | 25 | 173 | 16 | 541 | — | 541 |
| End of year - 2016 | 238 | — | 45 | 172 | 13 | 468 | — | 468 |
| Proved undeveloped reserves: | | | | | | | | |
| Beginning of year - 2014 | 256 | — | 27 | 39 | 6 | 328 | 14 | 342 |
| End of year - 2014 | 340 | — | 27 | 33 | 10 | 410 | — | 410 |
| End of year - 2015 | 253 | — | 27 | 28 | 6 | 314 | — | 314 |
| End of year - 2016 | 325 | — | — | — | 9 | 334 | — | 334 |

Estimated Quantities of Proved Oil and Gas Reserves (continued)

| <i>(mmbbl)</i> | U.S. | Canada | E.G. ^(a) | Other Africa | Other Int'l | Cont Ops | Disc Ops | Total |
|---|------|--------|---------------------|--------------|-------------|----------|----------|-------|
| Natural gas liquids | | | | | | | | |
| Proved developed and undeveloped reserves: | | | | | | | | |
| Beginning of year - 2014 | 119 | — | 34 | — | 1 | 154 | — | 154 |
| Revisions of previous estimates | 4 | — | — | — | — | 4 | — | 4 |
| Improved recovery | — | — | — | — | — | — | — | — |
| Purchases of reserves in place | 1 | — | — | — | — | 1 | — | 1 |
| Extensions, discoveries and other additions | 48 | — | — | — | — | 48 | — | 48 |
| Production | (11) | — | (4) | — | — | (15) | — | (15) |
| Sales of reserves in place | — | — | — | — | — | — | — | — |
| End of year - 2014 | 161 | — | 30 | — | 1 | 192 | — | 192 |
| Revisions of previous estimates | (31) | — | 2 | — | (1) | (30) | — | (30) |
| Improved recovery | — | — | — | — | — | — | — | — |
| Purchases of reserves in place | — | — | — | — | — | — | — | — |
| Extensions, discoveries and other additions | 57 | — | — | — | — | 57 | — | 57 |
| Production | (14) | — | (4) | — | — | (18) | — | (18) |
| Sales of reserves in place | (1) | — | — | — | — | (1) | — | (1) |
| End of year - 2015 | 172 | — | 28 | — | — | 200 | — | 200 |
| Revisions of previous estimates | (51) | — | — | — | — | (51) | — | (51) |
| Improved recovery | — | — | — | — | — | — | — | — |
| Purchases of reserves in place | 12 | — | — | — | — | 12 | — | 12 |
| Extensions, discoveries and other additions | 54 | — | — | — | — | 54 | — | 54 |
| Production | (14) | — | (4) | — | — | (18) | — | (18) |
| Sales of reserves in place | (3) | — | — | — | — | (3) | — | (3) |
| End of year - 2016 | 170 | — | 24 | — | — | 194 | — | 194 |
| Proved developed reserves: | | | | | | | | |
| Beginning of year - 2014 | 51 | — | 18 | — | 1 | 70 | — | 70 |
| End of year - 2014 | 68 | — | 15 | — | — | 83 | — | 83 |
| End of year - 2015 | 92 | — | 12 | — | — | 104 | — | 104 |
| End of year - 2016 | 78 | — | 24 | — | — | 102 | — | 102 |
| Proved undeveloped reserves: | | | | | | | | |
| Beginning of year - 2014 | 68 | — | 16 | — | — | 84 | — | 84 |
| End of year - 2014 | 93 | — | 15 | — | 1 | 109 | — | 109 |
| End of year - 2015 | 80 | — | 16 | — | — | 96 | — | 96 |
| End of year - 2016 | 92 | — | — | — | — | 92 | — | 92 |

Estimated Quantities of Proved Oil and Gas Reserves (continued)

| <i>(bcf)</i> | U.S. | Canada | E.G. ^(a) | Other Africa | Other Int'l | Cont Ops | Disc Ops | Total |
|---|-------|--------|---------------------|--------------|-------------|----------|----------|-------|
| Natural gas | | | | | | | | |
| Proved developed and undeveloped reserves: | | | | | | | | |
| Beginning of year - 2014 | 1,025 | — | 1,320 | 205 | 28 | 2,578 | 93 | 2,671 |
| Revisions of previous estimates | (24) | — | 1 | 5 | 2 | (16) | 7 | (9) |
| Improved recovery | — | — | — | — | — | — | — | — |
| Purchases of reserves in place | 5 | — | — | — | — | 5 | — | 5 |
| Extensions, discoveries and other additions | 290 | — | 44 | — | — | 334 | 2 | 336 |
| Production ^(b) | (113) | — | (160) | (1) | (8) | (282) | (13) | (295) |
| Sales of reserves in place | (39) | — | — | — | — | (39) | (89) | (128) |
| End of year - 2014 | 1,144 | — | 1,205 | 209 | 22 | 2,580 | — | 2,580 |
| Revisions of previous estimates | (191) | — | 35 | (3) | 1 | (158) | — | (158) |
| Improved recovery | — | — | — | — | — | — | — | — |
| Purchases of reserves in place | 1 | — | — | — | — | 1 | — | 1 |
| Extensions, discoveries and other additions | 394 | — | — | — | — | 394 | — | 394 |
| Production ^(b) | (128) | — | (150) | — | (8) | (286) | — | (286) |
| Sales of reserves in place | (69) | — | — | — | — | (69) | — | (69) |
| End of year - 2015 | 1,151 | — | 1,090 | 206 | 15 | 2,462 | — | 2,462 |
| Revisions of previous estimates | (146) | — | 8 | (1) | 3 | (136) | — | (136) |
| Improved recovery | — | — | — | — | — | — | — | — |
| Purchases of reserves in place | 61 | — | — | — | — | 61 | — | 61 |
| Extensions, discoveries and other additions | 362 | — | — | — | — | 362 | — | 362 |
| Production ^(b) | (115) | — | (155) | — | (8) | (278) | — | (278) |
| Sales of reserves in place | (25) | — | — | — | — | (25) | — | (25) |
| End of year - 2016 | 1,288 | — | 943 | 205 | 10 | 2,446 | — | 2,446 |
| Proved developed reserves: | | | | | | | | |
| Beginning of year - 2014 | 540 | — | 823 | 95 | 21 | 1,479 | 20 | 1,499 |
| End of year - 2014 | 575 | — | 664 | 94 | 17 | 1,350 | — | 1,350 |
| End of year - 2015 | 640 | — | 552 | 94 | 11 | 1,297 | — | 1,297 |
| End of year - 2016 | 648 | — | 943 | 95 | 5 | 1,691 | — | 1,691 |
| Proved undeveloped reserves: | | | | | | | | |
| Beginning of year - 2014 | 485 | — | 497 | 110 | 7 | 1,099 | 73 | 1,172 |
| End of year - 2014 | 569 | — | 541 | 115 | 5 | 1,230 | — | 1,230 |
| End of year - 2015 | 511 | — | 538 | 112 | 4 | 1,165 | — | 1,165 |
| End of year - 2016 | 640 | — | — | 110 | 5 | 755 | — | 755 |

Supplementary Information on Oil and Gas Producing Activities (Unaudited)

Estimated Quantities of Proved Oil and Gas Reserves (continued)

| <i>(mmbbl)</i> | U.S. | Canada | E.G. ^(a) | Other Africa | Other Int'l | Cont Ops | Disc Ops | Total |
|---|------|--------|---------------------|-----------------|----------------|-------------|-------------|-------|
| Synthetic crude oil | | | | | | | | |
| Proved developed and undeveloped reserves: | | | | | | | | |
| Beginning of year - 2014 | — | 680 | — | — | — | 680 | — | 680 |
| Revisions of previous estimates | — | (55) | — | — | — | (55) | — | (55) |
| Improved recovery | — | — | — | — | — | — | — | — |
| Purchases of reserves in place | — | 38 | — | — | — | 38 | — | 38 |
| Extensions, discoveries and other additions | — | — | — | — | — | — | — | — |
| Production | — | (15) | — | — | — | (15) | — | (15) |
| Sales of reserves in place | — | — | — | — | — | — | — | — |
| End of year - 2014 | — | 648 | — | — | — | 648 | — | 648 |
| Revisions of previous estimates | — | 67 | — | — | — | 67 | — | 67 |
| Improved recovery | — | — | — | — | — | — | — | — |
| Purchases of reserves in place | — | — | — | — | — | — | — | — |
| Extensions, discoveries and other additions | — | — | — | — | — | — | — | — |
| Production | — | (17) | — | — | — | (17) | — | (17) |
| Sales of reserves in place | — | — | — | — | — | — | — | — |
| End of year - 2015 | — | 698 | — | — | — | 698 | — | 698 |
| Revisions of previous estimates | — | 12 | — | — | — | 12 | — | 12 |
| Improved recovery | — | — | — | — | — | — | — | — |
| Purchases of reserves in place | — | — | — | — | — | — | — | — |
| Extensions, discoveries and other additions | — | — | — | — | — | — | — | — |
| Production | — | (18) | — | — | — | (18) | — | (18) |
| Sales of reserves in place | — | — | — | — | — | — | — | — |
| End of year - 2016 | — | 692 | — | — | — | 692 | — | 692 |
| Proved developed reserves: | | | | | | | | |
| Beginning of year - 2014 | — | 674 | — | — | — | 674 | — | 674 |
| End of year - 2014 | — | 644 | — | — | — | 644 | — | 644 |
| End of year - 2015 | — | 698 | — | — | — | 698 | — | 698 |
| End of year - 2016 | — | 692 | — | — | — | 692 | — | 692 |
| Proved undeveloped reserves: | | | | | | | | |
| Beginning of year - 2014 | — | — | — | — | — | — | — | — |
| End of year - 2014 | — | 4 | — | — | — | 4 | — | 4 |
| End of year - 2015 | — | — | — | — | — | — | — | — |
| End of year - 2016 | — | — | — | — | — | — | — | — |

Supplementary Information on Oil and Gas Producing Activities (Unaudited)

Estimated Quantities of Proved Oil and Gas Reserves (continued)

| (mmboc) | U.S. | Canada | E.G. ^(a) | Other Africa | Other Int'l | Cont Ops | Disc Ops | Total |
|---|-------|--------|---------------------|--------------|-------------|----------|----------|-------|
| Total Proved Reserves | | | | | | | | |
| Proved developed and undeveloped reserves: | | | | | | | | |
| Beginning of year - 2014 | 787 | 680 | 318 | 249 | 31 | 2,065 | 106 | 2,171 |
| Revisions of previous estimates | 36 | (55) | — | (3) | — | (22) | 11 | (11) |
| Improved recovery | 2 | — | — | — | — | 2 | — | 2 |
| Purchases of reserves in place | 8 | 38 | — | — | — | 46 | — | 46 |
| Extensions, discoveries and other additions | 250 | — | 8 | — | 7 | 265 | 3 | 268 |
| Production ^(b) | (87) | (15) | (38) | (3) | (5) | (148) | (19) | (167) |
| Sales of reserves in place | (10) | — | — | — | — | (10) | (101) | (111) |
| End of year - 2014 | 986 | 648 | 288 | 243 | 33 | 2,198 | — | 2,198 |
| Revisions of previous estimates | (173) | 67 | 8 | (8) | (2) | (108) | — | (108) |
| Improved recovery | 1 | — | — | — | — | 1 | — | 1 |
| Purchases of reserves in place | 1 | — | — | — | — | 1 | — | 1 |
| Extensions, discoveries and other additions | 245 | — | 1 | — | — | 246 | — | 246 |
| Production ^(b) | (98) | (17) | (36) | — | (6) | (157) | — | (157) |
| Sales of reserves in place | (18) | — | — | — | — | (18) | — | (18) |
| End of year - 2015 | 944 | 698 | 261 | 235 | 25 | 2,163 | — | 2,163 |
| Revisions of previous estimates | (171) | 12 | 2 | (28) | 4 | (181) | — | (181) |
| Improved recovery | 4 | — | — | — | — | 4 | — | 4 |
| Purchases of reserves in place | 34 | — | — | — | — | 34 | — | 34 |
| Extensions, discoveries and other additions | 303 | — | — | — | 1 | 304 | — | 304 |
| Production ^(b) | (82) | (18) | (37) | (1) | (6) | (144) | — | (144) |
| Sales of reserves in place | (84) | — | — | — | — | (84) | — | (84) |
| End of year - 2016 | 948 | 692 | 226 | 206 | 24 | 2,096 | — | 2,096 |
| Proved developed reserves: | | | | | | | | |
| Beginning of year - 2014 | 382 | 674 | 193 | 192 | 23 | 1,464 | 80 | 1,544 |
| End of year - 2014 | 458 | 644 | 155 | 191 | 22 | 1,470 | — | 1,470 |
| End of year - 2015 | 526 | 698 | 129 | 189 | 18 | 1,560 | — | 1,560 |
| End of year - 2016 | 424 | 692 | 226 | 188 | 14 | 1,544 | — | 1,544 |
| Proved undeveloped reserves: | | | | | | | | |
| Beginning of year - 2014 | 405 | 6 | 125 | 57 | 8 | 601 | 26 | 627 |
| End of year - 2014 | 528 | 4 | 133 | 52 | 11 | 728 | — | 728 |
| End of year - 2015 | 418 | — | 132 | 46 | 7 | 603 | — | 603 |
| End of year - 2016 | 524 | — | — | 18 | 10 | 552 | — | 552 |

^(a) Consists of estimated reserves from properties governed by production sharing contracts.

^(b) Excludes the resale of purchased natural gas used in reservoir management.

Supplementary Information on Oil and Gas Producing Activities (Unaudited)

2016 proved reserves decreased by 67 mmboe primarily due to the following:

- *Revisions of previous estimates:* Decrease of 181 mmboe due primarily to 93 mmboe of revision associated with the deferral of lower economic value wells in the U.S. unconventional resource plays outside of the 5-year plan and a decrease of 64 mmboe due to U.S. technical reevaluations.
- *Extensions, discoveries, and other additions:* Increased by 308 mmboe primarily in our U.S. unconventional resource plays associated with the acceleration of higher economic wells into the 5-year plan, the expansion of proved areas in Oklahoma, and new wells to sales from unproved categories.
- *Purchases of reserves in place:* Acquisition of STACK assets in Oklahoma.
- *Production:* Decrease of 144 mmboe.
- *Sales of reserves in place:* Decrease of 84 mmboe associated with the divestitures of our Wyoming and certain Gulf of Mexico assets. See Item 8. Financial Statements and Supplementary Data - Note 6 to the consolidated financial statements for information regarding these dispositions.

2015 total proved reserves decreased by 35 mmboe primarily due to the following:

- *Revisions of previous estimates:* Decrease of 173 mmboe which was largely due to reductions to our capital development program and adherence to the SEC 5-year rule and partially offset by a positive revision of 67 mmboe in OSM due to technical reevaluation and lower royalty percentages related to lower realized prices. Royalties paid in Canada are determined on a progressive scale; as the sales price of our synthetic crude oil rises, the royalty rate rises as well.
- *Extensions, discoveries, and other additions:* Increased 245 mmboe as a result of drilling programs in our U.S. resource plays.
- *Production:* Decrease of 157 mmboe.
- *Sales of reserves in place:* U.S. conventional assets sales contributed to a decrease of 18 mmboe.

2014 total proved reserves increased by 27 mmboe primarily due to the following:

- *Revisions of previous estimates:* Negative revisions of 55 mmboe to OSM synthetic crude oil reserves were impacted by technical changes, calculation of estimated royalty volumes, and development plan changes in mineable areas. This downward revision was offset by positive revisions from U.S. resource play development activity.
- *Extensions, discoveries, and other additions:* Increased 250 mmboe primarily as a result of development activity in the U.S.
- *Production:* Decrease of 167 mmboe.
- *Sales of reserves in place:* Decrease of 101 mmboe primarily related to the sale of our assets in Norway and Angola (reflected in discontinued operations).

Changes in Proved Undeveloped Reserves

As of December 31, 2016, 552 mmboe of proved undeveloped reserves were reported, a decrease of 51 mmboe from December 31, 2015. The following table shows changes in total proved undeveloped reserves for 2016:

| <i>(mmboe)</i> | |
|--|-------|
| Beginning of year | 603 |
| Revisions of previous estimates | (144) |
| Improved recovery | 4 |
| Purchases of reserves in place | 20 |
| Extensions, discoveries, and other additions | 264 |
| Dispositions | (14) |
| Transfers to proved developed | (181) |
| End of year | 552 |

Revisions of prior estimates. Revisions of prior estimates decreased 144 mmboe during 2016. Over half of this revision, 93 mmboe, was due to deferral of lower economic value wells beyond the 5-year window. The remaining revisions were driven by well performance dominated by lower secondary product volumes, which includes reduction in NGL reserves associated with ethane rejection, recognition of lower than expected performance from high density wells in Eagle Ford and various wells in Oklahoma and the removal of capital commitment from two long-term international projects.

Extensions, discoveries and other additions. Increased 264 mmboe through higher planned activity levels in the U.S. resource plays, expansion of proved areas in Oklahoma, and acceleration of higher economic value wells into the 5-year plan.

Supplementary Information on Oil and Gas Producing Activities (Unaudited)

Transfers to proved developed. 181 mmboe of PUD reserves were converted to proved developed status during 2016, of which 134 mmboe is associated with the E.G. Alba compression project. This 2016 transfer equates to a 30% PUD conversion rate. Our 5-year average annual PUD conversion rate during 2012-2016 period is 19% and would be 28% if the long-term projects in E.G. and Libya are excluded. All proved undeveloped reserve drilling locations are scheduled to be drilled prior to the end of 2021. No material volumes of proved undeveloped reserves have been on the books beyond 5 years as of year-end 2016.

Costs Incurred & Future Costs to Develop

Costs incurred in 2016, 2015 and 2014 relating to the development of proved undeveloped reserves were \$359 million, \$1,415 million and \$3,149 million. As of December 31, 2016, future development costs estimated to be required for the development of proved undeveloped crude oil and condensate, NGLs, natural gas and synthetic crude oil reserves for the years 2017 through 2021 are projected to be \$784 million, \$1,134 million, \$1,665 million, \$1,847 million and \$809 million.

Capitalized Costs and Accumulated Depreciation, Depletion and Amortization

| <i>(In millions)</i> | Year Ended December 31, | | | | | | Total |
|--|-------------------------|---------------|--------------|--------------|--------------|----|---------------|
| | U.S. | Canada | E.G. | Other Africa | Other Int'l | | |
| 2016 Capitalized Costs: | | | | | | | |
| Proved properties | \$ 25,497 | \$ 9,571 | \$ 1,978 | \$ 756 | \$ 5,864 | \$ | 43,666 |
| Unproved properties | 1,473 | 1,379 | 119 | 417 | 183 | | 3,571 |
| Total | <u>26,970</u> | <u>10,950</u> | <u>2,097</u> | <u>1,173</u> | <u>6,047</u> | | <u>47,237</u> |
| Accumulated depreciation, depletion and amortization: | | | | | | | |
| Proved properties | 12,526 | 1,649 | 1,216 | 269 | 5,246 | | 20,906 |
| Unproved properties ^(a) | 382 | 310 | 2 | — | 113 | | 807 |
| Total | <u>12,908</u> | <u>1,959</u> | <u>1,218</u> | <u>269</u> | <u>5,359</u> | | <u>21,713</u> |
| Net capitalized costs | \$ 14,062 | \$ 8,991 | \$ 879 | \$ 904 | \$ 688 | \$ | 25,524 |
| 2015 Capitalized Costs: | | | | | | | |
| Proved properties | \$ 27,816 | \$ 9,538 | \$ 1,955 | \$ 828 | \$ 5,741 | \$ | 45,878 |
| Unproved properties | 1,625 | 1,389 | 86 | 465 | 242 | | 3,807 |
| Total | <u>29,441</u> | <u>10,927</u> | <u>2,041</u> | <u>1,293</u> | <u>5,983</u> | | <u>49,685</u> |
| Accumulated depreciation, depletion and amortization: | | | | | | | |
| Proved properties | 13,656 | 1,420 | 1,105 | 263 | 5,195 | | 21,639 |
| Unproved properties ^(a) | 675 | 310 | — | 107 | 114 | | 1,206 |
| Total | <u>14,331</u> | <u>1,730</u> | <u>1,105</u> | <u>370</u> | <u>5,309</u> | | <u>22,845</u> |
| Net capitalized costs | \$ 15,110 | \$ 9,197 | \$ 936 | \$ 923 | \$ 674 | \$ | 26,840 |

^(a) Includes unproved property impairments (see Note 13).

Supplementary Information on Oil and Gas Producing Activities (Unaudited)

Costs Incurred for Property Acquisition, Exploration and Development ^(a)

| <i>(In millions)</i> | U.S. | Canada | E.G. | Other Africa | Other Int'l | Cont Ops | Disc Ops | Total |
|-----------------------|----------|---------------------|--------|--------------|--------------------|----------|----------|----------|
| December 31, 2016 | | | | | | | | |
| Property acquisition: | | | | | | | | |
| Proved | \$ 276 | \$ — | \$ — | \$ — | \$ — | \$ 276 | \$ — | \$ 276 |
| Unproved | 642 | — | — | 1 | (11) | 632 | — | 632 |
| Exploration | 525 | — | 1 | 10 | 3 | 539 | — | 539 |
| Development | 456 | 31 | 55 | 3 | 121 ^(c) | 666 | — | 666 |
| Total | \$ 1,899 | \$ 31 | \$ 56 | \$ 14 | \$ 113 | \$ 2,113 | \$ — | \$ 2,113 |
| December 31, 2015 | | | | | | | | |
| Property acquisition: | | | | | | | | |
| Proved | \$ 4 | \$ — | \$ — | \$ — | \$ — | \$ 4 | \$ — | \$ 4 |
| Unproved | 61 | — | — | 1 | — | 62 | — | 62 |
| Exploration | 959 | 1 | 60 | 38 | 50 | 1,108 | — | 1,108 |
| Development | 1,477 | — | 150 | 13 | 31 ^(c) | 1,671 | — | 1,671 |
| Total | \$ 2,501 | \$ 1 ^(b) | \$ 210 | \$ 52 | \$ 81 | \$ 2,845 | \$ — | \$ 2,845 |
| December 31, 2014 | | | | | | | | |
| Property acquisition: | | | | | | | | |
| Proved | \$ 26 | \$ — | \$ — | \$ — | \$ — | \$ 26 | \$ — | \$ 26 |
| Unproved | 202 | 3 | — | 53 | 2 | 260 | 1 | 261 |
| Exploration | 1,140 | 4 | 35 | 119 | 119 | 1,417 | 6 | 1,423 |
| Development | 3,532 | 196 | 139 | 16 | 94 | 3,977 | 418 | 4,395 |
| Total | \$ 4,900 | \$ 203 | \$ 174 | \$ 188 | \$ 215 | \$ 5,680 | \$ 425 | \$ 6,105 |

^(a) Includes costs incurred whether capitalized or expensed.

^(b) Reflects reimbursements earned from the governments of Canada and Alberta related to funds previously expended for Quest CCS capital equipment.

^(c) Includes revisions to asset retirement costs primarily due to changes in timing of these activities in the U.K.

Supplementary Information on Oil and Gas Producing Activities (Unaudited)

Results of Operations for Oil and Gas Producing Activities

| | U.S. | Canada | E.G. | Other Africa | Other Int'l | Cont Ops | Disc Ops | Total |
|---|----------|----------|--------|--------------|-------------|------------|----------|------------|
| Year Ended December 31, 2016 | | | | | | | | |
| Revenues and other income: | | | | | | | | |
| Sales | \$ 2,249 | \$ 724 | \$ 42 | \$ 54 | \$ 237 | \$ 3,306 | \$ — | \$ 3,306 |
| Transfers | — | — | 291 | — | — | 291 | — | 291 |
| Other income ^(a) | 387 | — | — | — | 2 | 389 | — | 389 |
| Total revenues and other income | 2,636 | 724 | 333 | 54 | 239 | 3,986 | — | 3,986 |
| Expenses: | | | | | | | | |
| Production costs | (952) | (544) | (81) | (36) | (140) | (1,753) | — | (1,753) |
| Exploration expenses ^(b) | (306) | (7) | (1) | (14) | (2) | (330) | — | (330) |
| Depreciation, depletion and amortization ^(c) | (1,901) | (239) | (114) | (7) | (132) | (2,393) | — | (2,393) |
| Technical support and other | (21) | (1) | (4) | (3) | (2) | (31) | — | (31) |
| Total expenses | (3,180) | (791) | (200) | (60) | (276) | (4,507) | — | (4,507) |
| Results before income taxes | (544) | (67) | 133 | (6) | (37) | (521) | — | (521) |
| Income tax provision | 195 | 15 | (26) | (2) | 57 | 239 | — | 239 |
| Results of operations | \$ (349) | \$ (52) | \$ 107 | \$ (8) | \$ 20 | \$ (282) | \$ — | \$ (282) |
| Year Ended December 31, 2015 | | | | | | | | |
| Revenues and other income: | | | | | | | | |
| Sales | \$ 3,374 | \$ 700 | \$ 40 | \$ — | \$ 329 | \$ 4,443 | \$ — | \$ 4,443 |
| Transfers | — | — | 296 | — | — | 296 | — | 296 |
| Other income ^(a) | 230 | — | — | (109) | 1 | 122 | — | 122 |
| Total revenues and other income | 3,604 | 700 | 336 | (109) | 330 | 4,861 | — | 4,861 |
| Expenses: | | | | | | | | |
| Production costs | (1,259) | (660) | (84) | (31) | (177) | (2,211) | — | (2,211) |
| Exploration expenses ^(b) | (750) | (348) | (41) | (36) | (143) | (1,318) | — | (1,318) |
| Depreciation, depletion and amortization ^(c) | (2,758) | (266) | (92) | (5) | (163) | (3,284) | — | (3,284) |
| Technical support and other | (47) | (2) | (6) | (2) | (3) | (60) | — | (60) |
| Total expenses | (4,814) | (1,276) | (223) | (74) | (486) | (6,873) | — | (6,873) |
| Results before income taxes | (1,210) | (576) | 113 | (183) | (156) | (2,012) | — | (2,012) |
| Income tax provision ^(d) | 437 | 31 | (33) | 87 | 86 | 608 | — | 608 |
| Results of operations | \$ (773) | \$ (545) | \$ 80 | \$ (96) | \$ (70) | \$ (1,404) | \$ — | \$ (1,404) |
| Year Ended December 31, 2014 | | | | | | | | |
| Revenues and other income: | | | | | | | | |
| Sales | \$ 5,754 | \$ 1,316 | \$ 43 | \$ 244 | \$ 440 | \$ 7,797 | \$ 189 | \$ 7,986 |
| Transfers | 3 | — | 588 | — | 3 | 594 | 1,848 | 2,442 |
| Other income ^(a) | (85) | — | — | — | — | (85) | 1,832 | 1,747 |
| Total revenues and other income | 5,672 | 1,316 | 631 | 244 | 443 | 8,306 | 3,869 | 12,175 |
| Expenses: | | | | | | | | |
| Production costs | (1,544) | (803) | (154) | (79) | (253) | (2,833) | (181) | (3,014) |
| Exploration expenses ^(b) | (607) | (1) | (26) | (103) | (56) | (793) | (5) | (798) |
| Depreciation, depletion and amortization ^(c) | (2,474) | (206) | (93) | (9) | (115) | (2,897) | (105) | (3,002) |
| Technical support and other | (193) | (15) | (31) | (21) | (14) | (274) | (7) | (281) |
| Total expenses | (4,818) | (1,025) | (304) | (212) | (438) | (6,797) | (298) | (7,095) |
| Results before income taxes | 854 | 291 | 327 | 32 | 5 | 1,509 | 3,571 | 5,080 |
| Income tax provision | (302) | (71) | (117) | (32) | (18) | (540) | (1,496) | (2,036) |
| Results of operations | \$ 552 | \$ 220 | \$ 210 | \$ — | \$ (13) | \$ 969 | \$ 2,075 | \$ 3,044 |

^(a) Includes net gain (loss) on dispositions (see Note 6).

^(b) Includes unproved property impairments (see Note 13).

^(c) Includes long-lived asset impairments (see Note 13).

^(d) Includes \$135 million of deferred tax expense related to Alberta provincial corporate tax rate increase (see Note 9).

Supplementary Information on Oil and Gas Producing Activities (Unaudited)

Results of Operations for Oil and Gas Producing Activities

The following reconciles results of operations for oil and gas producing activities to segment income:

| <i>(In millions)</i> | Year Ended December 31, | | |
|---|--------------------------------|-------------|-------------|
| | 2016 | 2015 | 2014 |
| Results of operations | \$ (282) | \$ (1,404) | \$ 3,044 |
| Discontinued operations | — | — | (2,075) |
| Results of continuing operations | (282) | (1,404) | 969 |
| Items not included in results of oil and gas operations, net of tax: | | | |
| Marketing income and other non-oil and gas producing related activities | (43) | (75) | 73 |
| Income from equity method investments | 142 | 127 | 327 |
| Items not allocated to segment income, net of tax: | | | |
| Loss (gain) on asset dispositions | (248) | (57) | 58 |
| Long-lived asset impairments | 149 | 819 | 69 |
| Unrealized loss (gain) on derivatives | 72 | (32) | — |
| Alberta provincial corporate tax rate increase | — | 135 | — |
| Foreign tax valuation allowance increase | (32) | — | — |
| Segment income | \$ (242) | \$ (487) | \$ 1,496 |

Supplementary Information on Oil and Gas Producing Activities (Unaudited)

Standardized Measure of Discounted Future Net Cash Flows Relating to Proved Reserves

U.S. GAAP prescribes guidelines for computing the standardized measure of future net cash flows and changes therein relating to estimated proved reserves, giving very specific assumptions to be made such as the use of a 10% discount rate and an unweighted average of commodity prices in the prior 12-month period using the closing prices on the first day of each month as well as current costs applicable at the date of the estimate. These and other required assumptions have not always proved accurate in the past, and other valid assumptions would give rise to substantially different results. In addition, the 10% discount rate required to be used is not necessarily the most appropriate discount factor based on our cost of capital and the risks associated with our business and the oil and natural gas industry in general. This information is not the fair value nor does it represent the expected present value of future cash flows of our crude oil and condensate, natural gas liquid, natural gas and synthetic crude oil reserves.

| <i>(In millions)</i> | U.S. | Canada | E.G. | Other Africa | Other Int'l | Total |
|---|-----------|-----------|----------|--------------|-------------|------------|
| Year Ended December 31, 2016 | | | | | | |
| Future cash inflows | \$ 27,610 | \$ 26,803 | \$ 1,977 | \$ 8,511 | \$ 921 | \$ 65,822 |
| Future production and support costs | (12,758) | (20,208) | (824) | (930) | (673) | (35,393) |
| Future development costs | (7,233) | (3,209) | (13) | (296) | (1,345) | (12,096) |
| Future income tax expenses | — | (446) | (251) | (6,884) | 514 | (7,067) |
| Future net cash flows | \$ 7,619 | \$ 2,940 | \$ 889 | \$ 401 | \$ (583) | \$ 11,266 |
| 10% annual discount for timing of cash flows | (4,355) | (1,864) | (264) | (143) | 313 | (6,313) |
| Standardized measure of discounted future net cash flows- | | | | | | |
| -related to continuing operations | \$ 3,264 | \$ 1,076 | \$ 625 | \$ 258 | \$ (270) | \$ 4,953 |
| -related to discontinued operations | \$ — | \$ — | \$ — | \$ — | \$ — | \$ — |
| Year Ended December 31, 2015 | | | | | | |
| Future cash inflows | \$ 31,026 | \$ 31,087 | \$ 2,671 | \$ 12,157 | \$ 1,281 | \$ 78,222 |
| Future production and support costs | (12,270) | (27,459) | (1,095) | (901) | (902) | (42,627) |
| Future development costs | (6,637) | (2,929) | (94) | (689) | (1,537) | (11,886) |
| Future income tax expenses | (778) | — | (369) | (9,857) | 602 | (10,402) |
| Future net cash flows | \$ 11,341 | \$ 699 | \$ 1,113 | \$ 710 | \$ (556) | \$ 13,307 |
| 10% annual discount for timing of cash flows | (6,082) | (534) | (380) | (441) | 352 | (7,085) |
| Standardized measure of discounted future net cash flows- | | | | | | |
| -related to continuing operations | \$ 5,259 | \$ 165 | \$ 733 | \$ 269 | \$ (204) | \$ 6,222 |
| -related to discontinued operations | \$ — | \$ — | \$ — | \$ — | \$ — | \$ — |
| Year Ended December 31, 2014 | | | | | | |
| Future cash inflows | \$ 66,307 | \$ 55,675 | \$ 5,027 | \$ 23,803 | \$ 3,040 | \$ 153,852 |
| Future production and support costs | (19,504) | (34,838) | (1,270) | (803) | (1,452) | (57,867) |
| Future development costs | (14,626) | (9,754) | (259) | (680) | (1,669) | (26,988) |
| Future income tax expenses | (8,124) | (2,190) | (922) | (21,008) | (9) | (32,253) |
| Future net cash flows | \$ 24,053 | \$ 8,893 | \$ 2,576 | \$ 1,312 | \$ (90) | \$ 36,744 |
| 10% annual discount for timing of cash flows | (12,138) | (6,613) | (915) | (742) | 221 | (20,187) |
| Standardized measure of discounted future net cash flows- | | | | | | |
| -related to continuing operations | \$ 11,915 | \$ 2,280 | \$ 1,661 | \$ 570 | \$ 131 | \$ 16,557 |
| -related to discontinued operations | \$ — | \$ — | \$ — | \$ — | \$ — | \$ — |

^(a) Future cash flows for Other International reflects the impact of future abandonment costs related to the U.K.

Supplementary Information on Oil and Gas Producing Activities (Unaudited)

Changes in the Standardized Measure of Discounted Future Net Cash Flows

| <i>(In millions)</i> | Year Ended December 31, | | |
|---|--------------------------------|-------------------------|--------------|
| | 2016 | 2015 | 2014 |
| Sales and transfers of oil and gas produced, net of production and support costs | \$ (1,813) | \$ (2,460) | \$ (5,284) |
| Net changes in prices and production and support costs related to future production | (3,173) ^(b) | (25,239) ^(b) | (2,688) |
| Extensions, discoveries and improved recovery, less related costs | 238 | 1,100 | 3,539 |
| Development costs incurred during the period | 700 | 1,694 | 4,088 |
| Changes in estimated future development costs | 2,492 | 9,397 | (1,423) |
| Revisions of previous quantity estimates ^(a) | (1,088) | (7,625) | (3,193) |
| Net changes in purchases and sales of minerals in place | (651) | (460) | (168) |
| Accretion of discount | 1,020 | 2,967 | 3,132 |
| Net change in income taxes | 1,006 | 10,291 | 3,312 |
| Net change for the year | <u>(1,269)</u> | <u>(10,335)</u> | <u>1,315</u> |
| Beginning of the year related to continuing operations | 6,222 | 16,557 | 15,242 |
| End of the year related to continuing operations | \$ 4,953 | \$ 6,222 | \$ 16,557 |
| Net change for the year related to discontinued operations | \$ — | \$ — | \$ (2,530) |

^(a) Includes amounts resulting from changes in the timing of production.

^(b) Decrease primarily due to lower realized prices.

Item 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure

None.

Item 9A. Controls and Procedures

Disclosure Controls and Procedures

An evaluation of the effectiveness of the design and operation of our disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934) was carried out under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer. As of the end of the period covered by this Report based upon that evaluation, the Chief Executive Officer and Chief Financial Officer concluded that the design and operation of these disclosure controls and procedures were effective as of December 31, 2016.

Management's Annual Report on Internal Control Over Financial Reporting

See "Management's Report on Internal Control over Financial Reporting" under Item 8 of this Form 10-K.

Attestation Report of the Registered Public Accounting Firm

See "Report of Independent Registered Public Accounting Firm" under Item 8 of this Form 10-K.

Changes in Internal Control Over Financial Reporting

During the fourth quarter of 2016, there were no changes in our internal control over financial reporting that have materially affected, or were reasonably likely to materially affect, our internal control over financial reporting.

Item 9B. Other Information

None.

PART III

Item 10. Directors, Executive Officers and Corporate Governance

Information required by this item is incorporated by reference to "Proposal 1: Election of Directors," "Corporate Governance—Committees of the Board" and "Section 16(a) Beneficial Ownership Reporting Compliance" in our Proxy Statement for the 2017 Annual Meeting of Stockholders, to be filed with the SEC within 120 days of December 31, 2016 (the "2017 Proxy Statement").

See "Executive Officers of the Registrant" under Item 1 of this Form 10-K for information about our executive officers.

Our Code of Business Conduct and the Code of Ethics for Senior Financial Officers are available on our website at www.marathonoil.com.

Item 11. Executive Compensation

Information required by this item is incorporated by reference to "Corporate Governance—Compensation Committee Interlocks and Insider Participation," "Compensation Committee Report," "Director Compensation," "Compensation Discussion and Analysis" and "Executive Compensation" in the 2017 Proxy Statement.

Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters

Portions of information required by this item are incorporated by reference to "Security Ownership of Certain Beneficial Owners and Management" in the 2017 Proxy Statement.

Securities Authorized for Issuance Under Equity Compensation Plans

The following table provides information as of December 31, 2016 with respect to shares of Marathon Oil common stock that may be issued under our existing equity compensation plans:

- Marathon Oil Corporation 2016 Incentive Compensation Plan (the "2016 Plan")
- Marathon Oil Corporation 2012 Incentive Compensation Plan (the "2012 Plan") – No additional awards will be granted under this plan.
- Marathon Oil Corporation 2007 Incentive Compensation Plan (the "2007 Plan") – No additional awards will be granted under this plan.
- Marathon Oil Corporation 2003 Incentive Compensation Plan (the "2003 Plan") – No additional awards will be granted under this plan.
- Deferred Compensation Plan for Non-Employee Directors – No additional awards will be granted under this plan.

| Plan category | Number of securities to be issued upon exercise of outstanding options, warrants and rights | Weighted-average exercise price of outstanding options, warrants and rights ^(c) | Number of securities remaining available for future issuance under equity compensation plans |
|--|---|--|--|
| Equity compensation plans approved by stockholders | 13,566,560 ^(a) | \$27.31 | 53,818,078 ^(d) |
| Equity compensation plans not approved by stockholders | 12,291 ^(b) | N/A | — |
| Total | 13,578,851 | N/A | 53,818,078 |

^(a) Includes the following:

- 4,214,949 stock options outstanding under the 2012 Plan; 7,700,584 stock options outstanding under the 2007 Plan;
- 353,503 common stock units that have been credited to non-employee directors pursuant to the non-employee director deferred compensation program and the annual director stock award program established under the 2012 Plan, 2007 Plan and 2003 Plan. Common stock units credited under the 2012 Plan, 2007 Plan and 2003 Plan were 166,680, 152,828 and 33,995, respectively;
- 1,297,524 restricted stock units granted to non-officers under the 2012 Plan and 2016 Plan and outstanding as of December 31, 2016.
- In addition to the awards reported above 60,716 and 429,708 shares of restricted stock were issued and outstanding as of December 31, 2016, but subject to forfeiture restrictions under the 2016 Plan. In addition to the awards reported above 5,206,301 shares of restricted stock were issued and outstanding as of December 31, 2016, but subject to forfeiture restrictions under the 2012 Plan.

^(b) Reflects awards of common stock units made to non-employee directors under the Deferred Compensation Plan for Non-Employee Directors prior to April 30, 2003. When a non-employee director leaves the Board, he or she will be issued actual shares of Marathon Oil common stock in place of the common stock units.

^(c) The weighted-average exercise prices do not take the restricted stock units or common stock units into account as these awards have no exercise price.

^(d) Reflects the shares available for issuance under the 2016 Plan. No more than 22,331,152 of these shares may be issued for awards other than stock options or stock appreciation rights. In addition, shares related to grants that are forfeited, terminated, canceled or expire unexercised shall again immediately become available for issuance.

The Deferred Compensation Plan for Non-Employee Directors is our only equity compensation plan that has not been approved by our stockholders. Our authority to make equity grants under this plan was terminated effective April 30, 2003. Under the Deferred Compensation Plan for Non-Employee Directors, all non-employee directors were required to defer half of their annual retainers in the form of common stock units. On the date the retainer would have otherwise been payable to the non-employee director, we credited an unfunded bookkeeping account for each non-employee director with a number of common stock units equal to half of his or her annual retainer divided by the fair market value of our common stock on that date. The ongoing value of each common stock unit equals the market price of a share of our common stock. When the non-employee director leaves the Board, he or she is issued actual shares of our common stock equal to the number of common stock units in his or her account at that time.

Item 13. Certain Relationships and Related Transactions, and Director Independence

Information required by this item is incorporated by reference to "Transactions with Related Persons," and "Proposal 1: Election of Directors—Director Independence" in the 2017 Proxy Statement.

Item 14. Principal Accountant Fees and Services

Information required by this item is incorporated by reference to "Proposal 2: Ratification of Independent Auditor for 2017" in the 2017 Proxy Statement.

PART IV

Item 15. Exhibits, Financial Statement Schedules

A. Documents Filed as Part of the Report

1. Financial Statements – See Part II, Item 8. of this Annual Report on Form 10-K.
2. Financial Statement Schedules – Financial statement schedules required under SEC rules but not included in this Annual Report on Form 10-K are omitted because they are not applicable or the required information is contained in the consolidated financial statements or notes thereto.
3. Exhibits – The information required by this Item 15 is incorporated by reference to the Exhibit Index accompanying this Annual Report on Form 10-K.

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.

February 24, 2017

MARATHON OIL CORPORATION

By: /s/ GARY E. WILSON

Gary E. Wilson

Vice President, Controller and Chief Accounting Officer

POWER OF ATTORNEY

Each person whose signature appears below appoints Lee M. Tillman, Patrick J. Wagner, and Gary E. Wilson, and each of them, as his or her true and lawful attorneys-in-fact and agents, with full power of substitution and resubstitution, for him or her and in his or her name, place and stead, in any and all capacities, to sign any and all amendments to this Annual Report on Form 10-K, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, with full power and authority to each of said attorneys-in-fact and agents to do and perform each and every act whatsoever that is necessary, appropriate or advisable in connection with any or all of the above-described matters and to all intents and purposes as he or she might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents or any of them or their substitutes, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on February 24, 2017 on behalf of the registrant and in the capacities indicated.

| <u>Signature</u> | <u>Title</u> |
|---|---|
| <u>/s/ LEE M. TILLMAN</u> Lee M. Tillman | President and Chief Executive Officer and Director |
| <u>/s/ PATRICK J. WAGNER</u> Patrick J. Wagner | Interim Chief Financial Officer and Vice President Corporate Development and Strategy |
| <u>/s/ GARY E. WILSON</u> Gary E. Wilson | Vice President, Controller and Chief Accounting Officer |
| <u>/s/ DENNIS H. REILLEY</u> Dennis H. Reilley | Chairman of the Board |
| <u>/s/ GAURDIE E. BANISTER, JR.</u> Gaurdie E. Banister, Jr. | Director |
| <u>/s/ GREGORY H. BOYCE</u> Gregory H. Boyce | Director |
| <u>/S/ CHADWICK C. DEATON</u> Chadwick C. Deaton | Director |
| <u>/s/ MARCELA E. DONADIO</u> Marcela E. Donadio | Director |
| <u>/s/ PHILIP LADER</u> Philip Lader | Director |
| <u>/s/ MICHAEL E. J. PHELPS</u> Michael E. J. Phelps | Director |

Exhibit Index

| Exhibit Number | Exhibit Description | Incorporated by Reference (File No. 001-05153, unless otherwise indicated) | | |
|----------------|---|--|---------|-------------|
| | | Form | Exhibit | Filing Date |
| 3 | Articles of Incorporation and By-laws | | | |
| 3.1 | Restated Certificate of Incorporation of Marathon Oil Corporation | 10-Q | 3.1 | 8/8/2013 |
| 3.2 | Marathon Oil Corporation By-laws (Amended and restated as of February 24, 2016) | 8-K | 3.1 | 3/1/2016 |
| 3.3 | Specimen of Common Stock Certificate | 10-K | 3.3 | 2/28/2014 |
| 4 | Instruments Defining the Rights of Security Holders, Including Indentures | | | |
| 4.1 | Indenture, dated as of February 26, 2002, between Marathon Oil Corporation and The Bank of New York Trust Company, N.A., successor in interest to JPMorgan Chase Bank as Trustee, relating to senior debt securities of Marathon Oil Corporation. Pursuant to CFR 229.601(b)(4)(iii), instruments with respect to long-term debt issues have been omitted where the amount of securities authorized under such instruments does not exceed 10% of the total consolidated assets of Marathon Oil. Marathon Oil hereby agrees to furnish a copy of any such instrument to the Securities and Exchange Commission upon its request | 10-K | 4.2 | 2/28/2014 |
| 10 | Material Contracts | | | |
| 10.1 | Amended and Restated Credit Agreement, dated as of May 28, 2014, among Marathon Oil Corporation, as borrower, The Royal Bank of Scotland plc, as syndication agent, Citibank, N.A., Morgan Stanley Senior Funding, Inc. and The Bank of Nova Scotia, as documentation agents, JPMorgan Chase Bank, N.A., as administrative agent, and certain other financial institutions named therein | 8-K | 4.1 | 6/2/2014 |
| 10.2 | First Amendment, dated as of May 5, 2015, to the Amended and Restated Credit Agreement dated as of May 28, 2014, by and among Marathon Oil Corporation, as borrower, JPMorgan Chase Bank, N.A., as administrative agent, and certain other financial institutions named therein | 10-Q | 10.1 | 5/7/2015 |
| 10.3 | Incremental Commitments Supplement, dated as of March 4, 2016, to the Amended and Restated Credit Agreement dated as of May 28, 2014, as amended by the First Amendment dated as of May 5, 2015, among Marathon Oil Corporation, as borrower, the lenders party thereto, The Royal Bank of Scotland Plc, as syndication agent, Citibank, N.A., Morgan Stanley Senior Funding, Inc. and The Bank of Nova Scotia, as documentation agents, and JPMorgan Chase Bank, N.A., as administrative agent. | 8-K | 99.1 | 3/8/2016 |
| 10.4† | Marathon Oil Corporation 2016 Incentive Compensation Plan | DEF 14A | App. A | 4/7/2016 |
| 10.5† | Form of Marathon Oil Corporation 2016 Incentive Compensation Plan Restricted Stock Award Agreement for Section 16 Officers (3-year cliff vesting) | 8-K/A | 10.1 | 10/6/2016 |
| 10.6†* | Form of Marathon Oil Corporation 2016 Incentive Compensation Plan Restricted Stock Award Agreement for Section 16 Officers (3-year prorata vesting) | | | |
| 10.7†* | Form of Marathon Oil Corporation 2016 Incentive Compensation Plan Nonqualified Stock Option Award Agreement for Section 16 Officers | | | |
| 10.8†* | Form of Marathon Oil Corporation 2016 Incentive Compensation Plan Restricted Stock Unit Award Agreement for Non-Employee Directors (3-year cliff vesting) | | | |

**Incorporated by Reference (File No. 001-05153,
unless otherwise indicated)**

| Exhibit Number | Exhibit Description | Form | Exhibit | Filing Date |
|---------------------------|--|-------------|----------------|--------------------|
| 10.9†* | Form of Marathon Oil Corporation 2016 Incentive Compensation Plan Restricted Stock Unit Award Agreement for Non-Employee Canadian Directors (3-year cliff vesting) | | | |
| 10.10† | Marathon Oil Corporation 2012 Incentive Compensation Plan | DEF 14A | App. III | 3/8/2012 |
| 10.11† | Form of Marathon Oil Corporation 2012 Incentive Compensation Plan Non-Qualified Stock Option Award Agreement | 8-K | 10.1 | 8/1/2014 |
| 10.12† | Form of Marathon Oil Corporation 2012 Incentive Compensation Plan Performance Unit Award Agreement | 10-Q | 10.1 | 5/7/2014 |
| 10.13† | Form of Marathon Oil Corporation 2012 Incentive Compensation Plan Performance Unit Award Agreement | 10-Q | 10.2 | 5/7/2014 |
| 10.14† | Form of Marathon Oil Corporation 2012 Incentive Compensation Plan Initial CEO Option Grant Agreement | 10-Q | 10.1 | 11/6/2013 |
| 10.15† | Form of Marathon Oil Corporation 2012 Incentive Compensation Plan CEO Restricted Stock Agreement (3-year prorata vesting) | 10-Q | 10.2 | 11/6/2013 |
| 10.16† | Form of Marathon Oil Corporation 2012 Incentive Compensation Plan CEO Restricted Stock Award Agreement granted (3-year cliff vesting) | 10-Q | 10.3 | 11/6/2013 |
| 10.17† | Form of Marathon Oil Corporation 2012 Incentive Compensation Plan Nonqualified Stock Option Award Agreement for Section 16 Officers (3-year prorata vesting) | 10-K | 10.5 | 2/22/2013 |
| 10.18† | Form of Marathon Oil Corporation 2012 Incentive Compensation Plan Nonqualified Stock Option Award Agreement for Officers (3-year prorata vesting) | 10-K | 10.6 | 2/22/2013 |
| 10.19† | Form of Marathon Oil Corporation 2012 Incentive Compensation Plan Restricted Stock Award Agreement for Section 16 Officers (3-year cliff vesting) | 10-K | 10.7 | 2/22/2013 |
| 10.20† | Form of Marathon Oil Corporation 2012 Incentive Compensation Plan Restricted Stock Award Agreement for Officers (3-year cliff vesting) | 10-K | 10.8 | 2/22/2013 |
| 10.21† | Form of Marathon Oil Corporation 2012 Incentive Compensation Plan Restricted Stock Award Agreement for Section 16 Officers (3-year prorata vesting) | 10-K | 10.9 | 2/22/2013 |
| 10.22† | Form of Marathon Oil Corporation 2012 Incentive Compensation Plan Restricted Stock Award Agreement for Officers (3-year prorata vesting) | 10-K | 10.10 | 2/22/2013 |
| 10.23† | Marathon Oil Corporation 2007 Incentive Compensation Plan | 10-K | 10.5 | 2/29/2012 |
| 10.24† | Form of Marathon Oil Corporation 2007 Incentive Compensation Plan Nonqualified Stock Option Award Agreement for Officers | 10-K | 10.6 | 2/29/2012 |
| 10.25† | Form of Marathon Oil Corporation 2007 Incentive Compensation Plan Nonqualified Stock Option Award Agreement for Section 16 Officers | 10-K | 10.5 | 2/28/2011 |
| 10.26† | Form of Marathon Oil Corporation 2007 Incentive Compensation Plan Nonqualified Stock Option Award Agreement for Section 16 Officers | 10-K | 10.26 | 2/26/2010 |
| 10.27† | Marathon Oil Corporation 2003 Incentive Compensation Plan | 10-K | 10.9 | 2/26/2010 |

| Exhibit Number | Exhibit Description | Incorporated by Reference (File No. 001-05153, unless otherwise indicated) | | |
|----------------|---|--|---------|-------------|
| | | Form | Exhibit | Filing Date |
| 10.28† | Form of Marathon Oil Corporation 2003 Incentive Compensation Plan Nonqualified Stock Option Award Agreement for Officers | 10-K | 10.22 | 2/26/2010 |
| 10.29†* | Marathon Oil Corporation Deferred Compensation Plan for Non-Employee Directors (Amended and Restated as of December 20, 2016) | | | |
| 10.30† | Marathon Oil Company Deferred Compensation Plan Amended and Restated Effective June 30, 2011 | 10-K | 10.32 | 2/29/2012 |
| 10.31† | Marathon Oil Company Excess Benefit Plan Amended and Restated | 10-K | 10.31 | 2/29/2012 |
| 10.32† | Marathon Oil Corporation 2011 Officer Change in Control Severance Benefits Plan (as amended, effective November 1, 2014) | 10-K | 10.36 | 3/2/2015 |
| 10.33† | Marathon Oil Corporation Policy for Repayment of Annual Cash Bonus Amounts | 10-K | 10.10 | 2/28/2011 |
| 10.34† | Marathon Oil Corporation Executive Tax, Estate, and Financial Planning Program, Amended and Restated, Effective January 1, 2009 | 10-K | 10.32 | 2/27/2009 |
| 10.35 | Tax Sharing Agreement dated as of May 25, 2011 among Marathon Oil Corporation, Marathon Petroleum Corporation and MPC Investment LLC | 8-K | 10.1 | 5/26/2011 |
| 10.36 | Separation Agreement with John R. Sult, dated September 23, 2016 | 8-K | 10.1 | 9/29/2016 |
| 10.37 | Consulting Services Agreement with John R. Sult, dated September 23, 2016 | 8-K | 10.2 | 9/29/2016 |
| 10.38 | Separation Agreement with Lance W. Robertson, dated September 23, 2016 | 8-K | 10.3 | 9/29/2016 |
| 12.1* | Computation of Ratio of Earnings to Fixed Charges | | | |
| 21.1* | List of Significant Subsidiaries | | | |
| 23.1* | Consent of Independent Registered Public Accounting Firm | | | |
| 23.2* | Consent of GLJ Petroleum Consultants LTD., independent petroleum engineers and geologists | | | |
| 23.3* | Consent of Ryder Scott Company, L.P., independent petroleum engineers and geologists | | | |
| 23.4* | Consent of Netherland, Sewell & Associates, Inc., independent petroleum engineers and geologists | | | |
| 31.1* | Certification of President and Chief Executive Officer pursuant to Rule 13(a)-14 and 15(d)-14 under the Securities Exchange Act of 1934 | | | |
| 31.2* | Certification of Chief Financial Officer pursuant to Rule 13(a)-14 and 15(d)-14 under the Securities Exchange Act of 1934 | | | |
| 32.1* | Certification of President and Chief Executive Officer pursuant to 18 U.S.C. Section 1350 | | | |
| 32.2* | Certification of Chief Financial Officer pursuant to 18 U.S.C. Section 1350 | | | |
| 99.1 | Report of GLJ Petroleum Consultants LTD., independent petroleum engineers and geologists for 2015 | 10-K | 99.1 | 2/25/2016 |

**Incorporated by Reference (File No. 001-05153,
unless otherwise indicated)**

| Exhibit Number | Exhibit Description | Form | Exhibit | Filing Date |
|---------------------------|--|-------------|----------------|--------------------|
| 99.2 | Report of GLJ Petroleum Consultants LTD., independent petroleum engineers and geologists for 2014 | 10-K | 99.1 | 3/2/2015 |
| 99.3* | Summary report of audits performed by Ryder Scott Company, L.P., independent petroleum engineers and geologists for 2016 | | | |
| 99.4* | Summary report of audits performed by Ryder Scott Company, L.P., independent petroleum engineers and geologists for 2015 | | | |
| 99.5 | Summary report of audits performed by Ryder Scott Company, L.P., independent petroleum engineers and geologists for 2014 | 10-K | 99.7 | 2/25/2016 |
| 99.6* | Summary report performed by Netherland, Sewell & Associates, Inc., independent petroleum engineers and geologists for 2015 | | | |
| 99.7 | Summary report performed by Netherland, Sewell & Associates, Inc., independent petroleum engineers and geologists for 2014 | 10-K | 99.4 | 2/25/2016 |
| 101.INS* | XBRL Instance Document | | | |
| 101.SCH* | XBRL Taxonomy Extension Schema | | | |
| 101.CAL* | XBRL Taxonomy Extension Calculation Linkbase | | | |
| 101.PRE* | XBRL Taxonomy Extension Presentation Linkbase | | | |
| 101.LAB* | XBRL Taxonomy Extension Label Linkbase | | | |
| 101.DEF* | XBRL Taxonomy Extension Definition Linkbase | | | |

* Filed herewith.

† Management contract or compensatory plan or arrangement.

Corporate Information

Corporate Headquarters

5555 San Felipe Street
Houston, TX 77056-2723

Marathon Oil Corporation Website

www.marathonoil.com

Investor Relations Office

5555 San Felipe Street
Houston, TX 77056-2723

Zach Dailey, Director, Investor Relations
+1 713-296-4140

Notice of Annual Meeting

The 2017 Annual Meeting of Stockholders will be held in Houston, Texas, on May 31, 2017.

Independent Accountants

PricewaterhouseCoopers LLP
1201 Louisiana, Suite 2900
Houston, TX 77002-5678

Stock Exchange Listing

New York Stock Exchange

Common Stock Symbol

MRO

Stock Transfer Agent

Computershare
211 Quality Circle, Suite 210
College Station, TX 77845
888-843-5542 (Toll free - U.S., Canada, Puerto Rico)
+1 781-575-4735 (non-U.S.)
web.queries@computershare.com

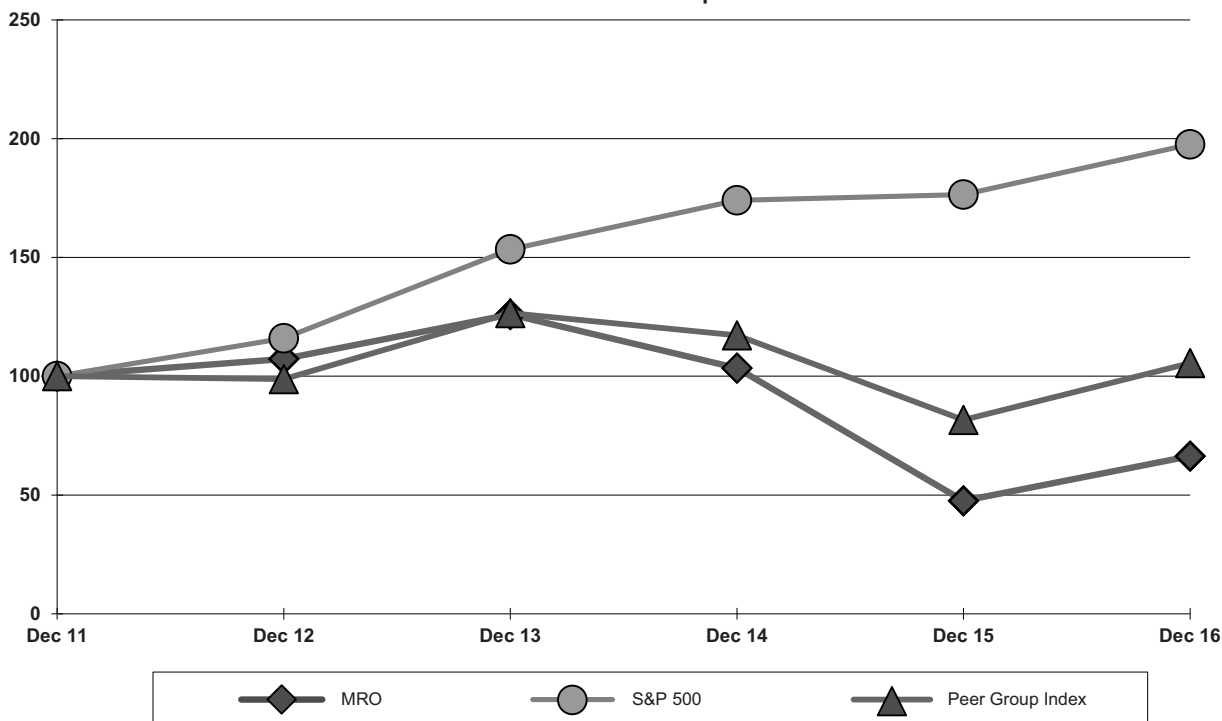
Dividends

Dividends on common stock, as declared by the board of directors, are normally paid on the 10th day of March, June, September and December.

Stockholder Return Performance Graph

The line graph below compares the yearly change in cumulative total stockholder return for our common stock with the cumulative total return of the Standard & Poor's 500 Stock Index ("S&P 500") and the Peer Group Index shown in our 2016 Annual Report (the "2016 Peer Group"). We use a Peer Group Index because there is no relevant published industry or line-of-business index that reflects the companies against which we compete as an independent exploration and production company. The 2016 Peer Group Index is comprised of Anadarko Petroleum Corporation, Apache Corporation, Chesapeake Energy Corporation, ConocoPhillips Co., Devon Energy Corporation, Encana Corp., EOG Resources, Inc., Hess Corporation, Murphy Oil Corporation, Noble Energy, Inc., Occidental Petroleum Corporation, and Pioneer Natural Resources Company.

**Comparison of Cumulative Total Return on \$100
Invested In Marathon Oil Common Stock on December 31, 2011
vs.
*S&P 500 and Peer Group Index**



*Total return assumes reinvestment of dividends

Forward-Looking Statements

This letter to stockholders contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. These are statements, other than statements of historical fact, that give current expectations or forecasts of future events, including without limitation: the Company's operational, financial and growth strategies; the Company's ability to successfully effect those strategies and the expected timing and results thereof; the Company's 2017 capital program and the planned allocation thereof; expectations regarding future economic and market conditions and their effects on the Company; the Company's ability and strategies to manage through the lower commodity price cycle; the Company's financial and operational outlook, and ability to fulfill that outlook; the Company's financial position, balance sheet, liquidity and capital resources, and the benefits thereof; resource and asset potential; growth expectations; and future production and sales expectations, and the drivers thereof. While the Company believes that its assumptions concerning future events are reasonable, we can give no assurance that these expectations will prove to be correct. A number of factors could cause results to differ materially from those indicated by such forward-looking statements including, but not limited to:

- conditions in the oil and gas industry, including supply/demand levels for crude oil and condensate, NGLs, natural gas and synthetic crude oil and the resulting impact on price;
- changes in expected reserve or production levels;
- changes in political or economic conditions in the jurisdictions in which we operate, including changes in foreign currency exchange rates, interest rates, inflation rates, and global and domestic market conditions;
- risks relating to our hedging activities;
- capital available for exploration and development;
- drilling and operating risks;
- well production timing;
- availability of drilling rigs, materials and labor, including the costs associated therewith;
- difficulty in obtaining necessary approvals and permits;
- non-performance by third parties of their contractual obligations;
- unforeseen hazards such as weather conditions, acts of war or terrorist acts and the governmental or military response thereto;
- cyber-attacks;
- changes in safety, health, environmental, tax and other regulations;
- other geological, operating and economic considerations; and
- the risk factors, forward-looking statements and challenges and uncertainties described in the Company's 2016 Annual Report on Form 10-K, Quarterly Reports on Form 10-Q and other public filings and press releases available at www.marathonoil.com.

Except as required by law, the Company assumes no duty to revise or update any forward-looking statements whether as a result of new information, future events or otherwise.