



Dear Shareholders,

In 2023, Marathon Oil once again demonstrated unwavering execution across all facets of our Framework for Success, delivering exceptional value to our shareholders. This year's accomplishments reflect our financial and operational excellence and our deep commitment to our core values, as evidenced by record-setting safety performance, early achievement of our 2025 emissions intensity goal, and significant strides in our social and governance initiatives.

Among our high-quality exploration and production peers, we delivered one of the highest free cash flow and shareholder distribution yields, unmatched production growth per share, superior capital efficiency, and the lowest reinvestment rate.

Our commitment to responsible and safe operations resulted in a record-low Total Recordable Incident Rate (TRIR) of 0.21 for our employees and contractors.

Our environmental stewardship also demonstrates our commitment to our core values, as we achieved our 2025 greenhouse gas (GHG) intensity reduction goal two years ahead of schedule and further improved our natural gas capture. These milestones underscore our dedication to continuous improvement and alignment with global sustainability efforts like the World Bank's Zero Routine Flaring initiative by 2030.

Our business strategy, centered on prioritizing free cash flow generation through disciplined reinvestment, allowed us to return \$1.7 billion of capital to our shareholders, representing 41% of our adjusted cash flow from operations. This aligns with our unique Return of Capital Framework, which prioritizes our shareholders as the first call on capital.

Notably, we executed \$1.5 billion in share repurchases in 2023, reducing our outstanding share count by 9% and cumulatively by 27% since October 2021, driving peer-leading growth in per-share metrics. Additionally, we increased our per-share base dividend by 22%, with no impact on our peer-leading post-dividend free cash flow breakeven.

Beyond shareholder returns, we reduced our gross debt by \$500 million in 2023, further enhancing our robust investment-grade balance sheet.

Looking ahead, we remain confident in the essential role the U.S. oil and gas sector has in ensuring global energy security and economic stability and improving the quality of life of people worldwide with affordable energy. Marathon Oil is at the forefront, strategically positioned to responsibly deliver the oil and gas the world needs while prioritizing corporate returns, growth in per-share metrics, cost discipline, a strong balance sheet, and sustainable and safe operations.

As we look to 2024, our strong financial foundation, high-quality U.S. multi-basin portfolio, our unique E.G. integrated gas business, and sustained commitment to a broad array of social and governance initiatives sets us up to sustainably compete not only at the top of our energy peer group but with the very best companies in the S&P 500.

We extend our deepest gratitude to our board of directors for their guidance, our employees for their unwavering dedication, and you, our shareholders, for your continued trust and support of Marathon Oil.

Sincerely,

A handwritten signature in black ink that reads 'Lee M. Tillman'.

Lee M. Tillman
Chairman, President and Chief Executive Officer

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, 2023

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from ____ to ____

Commission file number 1-1513



Marathon Oil®

Marathon Oil Corporation

(Exact name of registrant as specified in its charter)

Delaware

25-0996816

(State or other jurisdiction of incorporation or organization)

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

990 Town and Country Boulevard, Houston, Texas 77024-2217

(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	Trading Symbol	Name of each exchange on which registered
Common Stock, par value \$1.00	MRO	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 every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes No

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

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

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

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

If securities are registered pursuant to Section 12(b) of the Act, indicate by check mark whether the financial statements of the registrant included in the filing reflect the correction of an error to previously issued financial statements.

Indicate by check mark whether any of those error corrections are restatements that required a recovery analysis of incentive-based compensation received by any of the registrant's executive officers during the relevant recovery period pursuant to §240.10D-1(b).

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, 2023: \$13,888 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 577,197,369 shares of Marathon Oil Corporation Common Stock outstanding as of February 16, 2024.

Documents Incorporated By Reference:

Portions of the registrant's proxy statement relating to its 2024 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.

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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.

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

boe – Barrels of oil equivalent.

btu – British thermal unit, an energy equivalence measure.

BLM – Bureau of Land Management.

CWA – Clean Water Act.

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.

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

E.G. – Equatorial Guinea.

EGHoldings or EG LNG – Equatorial Guinea LNG Holdings Limited and its wholly owned subsidiaries, a liquefied natural gas production company located in E.G. in which we own a 56% equity interest.

Ensign – Ensign Natural Resources.

ESG – Environmental, safety and governance.

EPA – United States Environmental Protection Agency.

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.

GHG – Greenhouse gas.

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

HES – Health, Environment and Safety.

IRA – Inflation Reduction Act of 2022.

IRS – United States Internal Revenue Service.

LIBOR – London Interbank Offered Rate.

LNG – Liquefied natural gas.

LPG – Liquefied petroleum gas.

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

Marathon Oil, the Company, we, our, us – Marathon Oil Corporation, including wholly owned and majority-owned subsidiaries, and 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).

mbbl/d – Thousand barrels per day.

mboed – Thousand barrels of oil equivalent per day.

mbopd – Thousand barrels of oil per day.

mcf – Thousand cubic feet.

MEGPL – Marathon E.G. Production Limited, a consolidated and wholly owned subsidiary.

mmbbl – Million barrels.

mmboe – Million barrels of oil equivalent. Natural gas is converted on the basis of six mcf of gas per one barrel of crude oil equivalent.

mmbtu – Million British thermal units.

mmcf/d – Million stabilized cubic feet per day.

mmta – Million metric tonnes per annum.

mt – Metric tonnes.

mtd – Metric tonnes per day.

NAAQS – National Ambient Air Quality Standard.

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, which can be collectively removed from produced natural gas, separated into these substances and sold.

NYMEX – New York Mercantile Exchange.

OPEC – Organization of Petroleum Exporting Countries.

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.

Proved reserves – Proved crude oil and condensate, NGLs and natural gas reserves are those quantities of crude oil and condensate, NGLs and natural gas, which, by analysis of geoscience and engineering data, can be estimated with reasonable certainty to be economically producible from a given date forward, from known reservoirs, and under existing economic conditions, operating methods and government regulations, prior to the time at which contracts providing the right to operate expire, unless evidence indicates that renewal is reasonably certain, regardless of whether deterministic or probabilistic methods are used for the estimation. The project to extract the hydrocarbons must have commenced or the operator must be reasonably certain that it will commence the project within a reasonable time.

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. 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 viability at greater distances.

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.

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).

SOFR – Secured Overnight Financing Rate.

STACK – Sooner Trend oil field, Anadarko basin, Canadian and Kingfisher counties in Oklahoma.

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

TTF – Title Transfer Facility, a natural gas index benchmark pricing location in the Netherlands; oftentimes serves as a proxy for the overall European LNG import market.

Turnaround – A planned major maintenance program the costs for which are expensed in the period incurred and can include the costs of contractor repair services, materials and supplies, equipment rentals and labor costs.

U.S. – United States of America.

U.S. resource plays – Consists of our unconventional properties in the Eagle Ford in Texas, the Bakken in North Dakota, STACK and SCOOP in Oklahoma and Permian in New Mexico and Texas.

U.S. GAAP – U.S. Generally Accepted Accounting Principles.

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.

WOTUS – Waters of the United States.

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

DISCLOSURE 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, and financial flexibility; our ability to successfully effect those strategies and the expected timing and results thereof; our 2024 capital budget 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 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; expected interest expense; growth expectations; the impact of assets we acquire to our financial metrics; our expectations regarding future LNG and methanol pricing, the entry into new LNG agreements and intentions to secure increased exposure to global LNG market prices; expected AMPCO diversions; 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,” “continue,” “could,” “estimates,” “expects,” “forecast,” “future,” “guidance,” “intend,” “may,” “outlook,” “plans,” “positioned,” “projects,” “seek,” “should,” “targets,” “will,” “would” or similar words indicating that future outcomes are uncertain. While we believe that our assumptions concerning future events are reasonable, these expectations may not 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 and demand levels for crude oil and condensate, NGLs and natural gas and the resulting impact on price;
- changes in expected reserve or production levels;
- changes in political or economic conditions in the U.S. and E.G., including changes in foreign currency exchange rates, interest rates, inflation rates, and global and domestic market conditions;
- actions taken by the members of OPEC and Russia affecting the production and pricing of crude oil and other global and domestic political, economic or diplomatic developments;
- capital available for exploration and development;
- risks related to our hedging activities;
- voluntary or involuntary curtailments, delays or cancellations of certain drilling activities;
- well production timing;
- liabilities or corrective actions resulting from litigation, other proceedings and investigations or alleged violations of law or permits;
- drilling and operating risks;
- lack of, or disruption in, access to storage capacity, pipelines or other transportation methods;
- availability of drilling rigs, materials and labor, including the costs associated therewith;
- difficulty in obtaining necessary approvals and permits;
- the availability, cost, terms and timing of issuance or execution of, competition for, and challenges to, mineral licenses and leases and governmental and other permits and rights-of-way, and our ability to retain mineral licenses and leases;
- non-performance by third parties of their contractual obligations, including due to bankruptcy;
- administrative impediments or unexpected events that may impact dividends or other distributions, and the timing thereof, from our equity method investees;
- unforeseen hazards such as weather conditions, a health pandemic, acts of war or terrorist acts and the governmental or military response thereto;
- the impacts of supply chain disruptions that began during the COVID-19 pandemic and the resulting inflationary environment;
- security threats, including cybersecurity threats and disruptions to our business and operations from breaches of our information technology systems, or breaches of the information technology systems, facilities and infrastructure of third parties with which we transact business;
- changes in safety, health, environmental, tax, currency and other regulations, or requirements or initiatives including those addressing the impact of global climate change, air emissions or water management;
- our ability to achieve, reach or otherwise meet initiatives, plans or ambitions with respect to ESG matters;
- our ability to pay dividends and make share repurchases;

- our ability to secure increased exposure to global LNG market prices and progress on the E.G. Gas Mega Hub;
- impacts of the IRA;
- the risk that assets we acquire do not perform consistent with our expectations, including with respect to future production or drilling inventory;
- 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 undertake no obligation to revise or update any forward-looking statements 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

Items 1. and 2. Business and Properties

General and Business Strategy

General

Marathon Oil Corporation (NYSE: MRO) is an independent exploration and production company incorporated in 2001, focused on U.S. resource plays: Eagle Ford in Texas, Bakken in North Dakota, STACK and SCOOP in Oklahoma and Permian in New Mexico and Texas. Our U.S. assets are complemented by our international operations in E.G. Our corporate headquarters is located at 990 Town and Country Boulevard, Houston, Texas 77024-2217 and our telephone number is (713) 629-6600. Each of our two reportable operating segments are organized by geographic location and managed according to the nature of the products and services offered. The two segments are:

- United States – explores for, produces and markets crude oil and condensate, NGLs and natural gas in the United States; and
- International – explores for, produces and markets crude oil and condensate, NGLs and natural gas outside of the United States as well as produces and markets products manufactured from natural gas, such as LNG and methanol, in E.G.

Business Strategy

Marathon Oil is proud to responsibly produce the oil and gas the world needs while helping maintain the U.S. energy security. Being a safe and ethical operator mindful of our neighbors and communities is foundational to our business and for creating long-term value for all our stakeholders. Driven by talented people, innovation and a culture of continuous improvement, the future is ours to create.

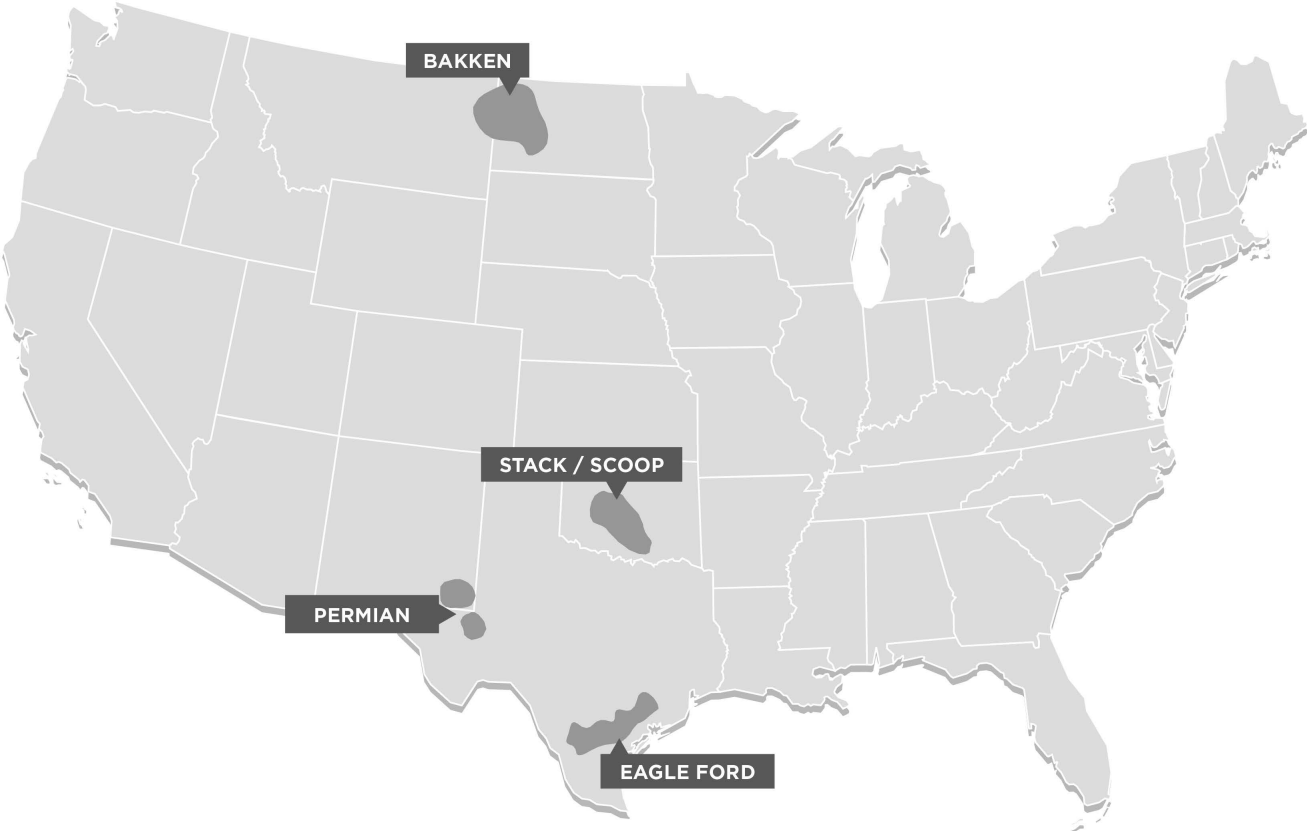
Our overall business strategy is to responsibly deliver leading cash returns to shareholders which are sustainable long-term and resilient through all commodity price cycles. We expect to achieve our business strategy by adherence to a capital allocation framework that limits our capital expenditures relative to our expected cash flow from operations. We allocate capital to prioritize shareholder returns and per share growth, exercise discipline in reinvestment, retire outstanding debt and replenish inventory.



In February 2024, we announced a 2024 capital budget of \$1.9 billion to \$2.1 billion that prioritizes free cash flow generation and meaningful return of capital to shareholders, consistent with our disciplined capital allocation framework.

We believe our financial strength, quality portfolio, ongoing focus on maintaining a competitive cost structure and disciplined capital allocation framework position us to navigate a variety of commodity price environments. 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 liquidity.

Our portfolio is concentrated in our core operations in the U.S. resource plays and E.G. The map below shows the locations of our U.S. resource plays:



Segment Information

In the following discussion regarding our United States and International segments, references to net wells, acres, sales or investment indicate our ownership interest or share, as the context requires.

United States Segment

We are engaged in oil and gas exploration, development and production activities in the U.S. Our primary focus in the United States segment is concentrated within our four high-quality resource plays. See Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations for further detail on current year results.

United States – U.S. Resource Plays

Eagle Ford – We have been operating in the South Texas Eagle Ford play since 2011. We operate more than 2,900 producing wells with core acreage in Karnes, Atascosa, Gonzales and Lavaca Counties. We also own and operate the Sugarloaf gathering system, a natural gas pipeline through the heart of our acreage in Karnes and Atascosa Counties. In the fourth quarter of 2022, we acquired from Ensign approximately 130,000 net proved and unproved acres with an average 97% working interest. The Ensign acreage provides accretive capital efficiency and financial returns with comparable oil productivity to our legacy program.

Bakken – We have been operating in the Williston Basin since 2006, targeting the Middle Bakken and Three Forks reservoir with our core acreage in McKenzie, Mountrail and Dunn Counties in North Dakota. We continue focusing investment in our high-return Myrmidon and Hector areas, while also delineating and extending our core acreage across the rest of our position.

Permian – We have been operating in the Northern Delaware basin since 2017, with the majority of our acreage in Eddy and Lea counties, primarily in the Wolfcamp and Bone Spring New Mexico plays. Our focus has been to advance our position through execution of strategic acreage trades, progress early delineation and development of our acreage, improve our cost structure and secure midstream solutions.

Oklahoma – With a history in Oklahoma that dates back more than 100 years, our primary focus is in the SCOOP Woodford and STACK Meramec plays, with net acreage rights to the Woodford, Springer, Meramec, Osage and other prospect intervals.

International Segment

We are engaged in oil and gas exploration, development and production activities in E.G. We include the results of our investments in a LPG processing plant and LNG and methanol production operations in E.G. in our International segment.

International

E.G. – We own a 63% and an 80% operated working interest in two separate production sharing contracts (Alba PSC and Block D PSC, respectively), which we produce from the Alba field, located offshore E.G. These production sharing contracts were unitized in 2017 resulting in the Alba Unit in which we own a 64% operated working interest.

E.G. – Gas Processing – The following facilities located on Bioko Island, all accounted for as equity method investments, allow us to further monetize natural gas production from the Alba field.

We own a 52% interest in Alba Plant LLC, which operates an onshore LPG processing plant. Alba field natural gas is processed by the LPG plant under a fixed-price long-term contract. The LPG plant extracts condensate and LPG from the natural gas stream and uses some of the remaining dry natural gas in its operations.

We also own 56% of EGHoldings, which operates a 3.7 mmta LNG production facility. Under EGHoldings' sales and purchase agreement that ended on December 31, 2023, the purchaser took delivery of the LNG on Bioko Island, with pricing linked principally to the Henry Hub index. In 2023, we announced the signing of a 5-year firm LNG sales agreement for a portion of our equity gas from the Alba Field liquefied at EG LNG. The contract took effect on January 1, 2024, and features a pricing structure linked to the Dutch TTF index, providing us with significant incremental exposure to the European LNG market. EGHoldings' gross sales of LNG from this production facility totaled approximately 1.2 mmta in 2023.

Additionally, Alba Plant LLC and EGHoldings process the third-party gas from the Alen field under a combination of a tolling fee and profit-sharing arrangement, the benefits of which are included in our respective share of income from equity method investments. Efforts are in progress to secure additional regional third-party gas volumes to be processed by Alba Plant LLC and EGHoldings thereby creating the E.G. Regional Gas Mega Hub.

We also own 45% of AMPCO, which operates a methanol plant. AMPCO had gross sales totaling 2,783 mtd in 2023. Methanol production is sold to customers in Europe and the U.S. In 2024, due to the expected arbitrage between LNG and methanol pricing, we expect to optimize our E.G. integrated gas operations by redirecting a portion of Alba Unit natural gas from AMPCO to the LNG production facility operated by EGHoldings.

Reserves

Proved reserves are required to be 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. For additional detail on reserves, see Item 8. Financial Statements and Supplementary Data – [Supplementary Information on Oil and Gas Producing Activities](#).

The following tables set forth estimated quantities of our total proved crude oil and condensate, NGLs and natural gas reserves based upon SEC pricing for the year ended December 31, 2023:

	Crude Oil and Condensate (mmbbl)	NGLs (mmbbl)	Natural Gas (bcf)	Total (mmboe)	Total (%)
Proved Developed Reserves					
U.S.	340	193	1,150	726	55 %
E.G.	26	16	334	97	7 %
Total proved developed reserves (mmboe)	366	209	1,484	823	62 %
Proved Undeveloped Reserves					
U.S.	278	112	644	497	38 %
Total proved undeveloped reserves (mmboe)	278	112	644	497	38 %
Total Proved Reserves					
U.S.	618	305	1,794	1,223	93 %
E.G.	26	16	334	97	7 %
Total proved reserves (mmboe)	644	321	2,128	1,320	100 %
Total proved reserves (%)	49 %	24 %	27 %	100 %	

Productive and Drilling Wells

For our United States and International 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
2023								
U.S.	6,541	2,762	2,306	1,373	154	12	10	5
E.G.	—	—	17	11	—	—	—	—
Total	6,541	2,762	2,323	1,384	154	12	10	5
2022								
U.S.	5,774	2,644	2,179	1,255	150	16		
E.G.	—	—	17	11	—	—		
Total	5,774	2,644	2,196	1,266	150	16		
2021								
U.S.	5,375	2,452	1,554	633	147	16		
E.G.	—	—	19	12	—	—		
Total	5,375	2,452	1,573	645	147	16		

^(a) Of the gross productive wells, wells with multiple completions operated by us totaled 6, 10 and 11 as of December 31, 2023, 2022 and 2021, respectively. Information on wells with multiple completions operated by others is unavailable to us.

Drilling Activity

Our drilling activity during the year ended December 31, 2023 increased compared with 2022, driven primarily by an increase in development wells in the Eagle Ford and Bakken. The table below sets forth the number of net productive and dry development and exploratory wells completed as of December 31 for the years presented, all of which reside in our United States segment:

	December 31,		
	2023	2022	2021
Development Wells			
Oil	145	126	137
Natural Gas	54	6	9
Dry	—	—	—
Total Development Wells	199	132	146
Exploratory Wells			
Oil	14	20	19
Natural Gas	2	6	2
Dry	3	—	8
Total Exploratory Wells	19	26	29
Total Development and Exploratory Wells	218	158	175

Acreage

We believe we have satisfactory title to our United States and International properties in accordance with standards generally accepted in the industry; nevertheless, we can be involved in title disputes from time to time that 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 production sharing contracts or exploration licenses.

The following table sets forth, by geographic area, the gross and net developed and undeveloped acreage held as of December 31, 2023:

<i>(In thousands)</i>	Developed		Undeveloped		Developed and Undeveloped	
	Gross	Net	Gross	Net	Gross	Net
U.S.	1,457	1,017	34	29	1,491	1,046
E.G.	82	67	—	—	82	67
Total	1,539	1,084	34	29	1,573	1,113

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, undeveloped acreage listed in the table below could expire over the next three years. We plan to continue the terms of certain of these leases through operational or administrative actions. There are no material quantities of net proved undeveloped reserves assigned to expiring undeveloped acreage in the next three years.

<i>(In thousands)</i>	Net Undeveloped Acres Expiring		
	Year Ended December 31,		
	2024	2025	2026
U.S.	12	6	9
E.G.	—	—	—
Total	12	6	9

Net Sales Volumes

As of December 31, 2023, Eagle Ford and Bakken in the United States each contained 15% or more of our total proved reserves. As of December 31, 2022 and 2021, Eagle Ford, Bakken, and Oklahoma each contained 15% or more of our total proved reserves. Production for these fields along with our production from fields containing less than 15% of our total proved reserves are presented in the table below:

	December 31,		
	2023	2022	2021
Net Sales Volumes			
Crude oil and condensate (mmbld) ^(a)			
United States			
Eagle Ford	77	57	58
Bakken	71	71	74
Oklahoma	10	12	12
Permian	21	14	13
Other U.S.	2	5	4
E.G.	9	10	11
Total	<u>190</u>	<u>169</u>	<u>172</u>
NGLs (mmbld)			
United States			
Eagle Ford	37	15	15
Bakken	24	25	23
Oklahoma	16	17	17
Permian	10	5	5
Other U.S.	—	2	2
E.G.	5	7	7
Total	<u>92</u>	<u>71</u>	<u>69</u>
Natural gas (mmcf)			
United States			
Eagle Ford	222	86	97
Bakken	94	87	90
Oklahoma	146	140	147
Permian	57	34	32
Other U.S.	2	16	13
E.G.	214	252	259
Total	<u>735</u>	<u>615</u>	<u>638</u>
Total sales volumes (mboed)			
United States			
Eagle Ford	151	86	89
Bakken	111	111	112
Oklahoma	50	52	54
Permian	41	25	23
Other U.S.	2	10	8
E.G.	50	59	61
Total	<u>405</u>	<u>343</u>	<u>347</u>

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

Average Sales Price and Production Costs per Unit are presented by geographic area:

<i>(Dollars per unit)</i>	December 31,		
	2023	2022	2021
Average Sales Price per Unit ^(a)			
Crude oil and condensate (bbl)			
United States	\$ 76.42	\$ 95.58	\$ 66.88
E.G.	57.50	68.67	57.46
Total	\$ 75.55	\$ 94.03	\$ 66.25
NGLs (bbl)			
United States	\$ 21.20	\$ 34.55	\$ 28.89
E.G. ^(b)	1.00	1.00	1.00
Total	\$ 19.93	\$ 31.34	\$ 26.19
Natural gas (mcf)			
United States	\$ 2.36	\$ 6.11	\$ 4.57
E.G. ^(b)	0.24	0.24	0.24
Total	\$ 1.74	\$ 3.70	\$ 2.81
Average Production Costs per Unit ^(c)			
United States	\$ 10.98	\$ 11.94	\$ 9.99
E.G.	4.13	3.04	2.48
Total	\$ 10.13	\$ 10.42	\$ 8.66

^(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 segment.

^(c) Taxes other than income (such as production, severance and property taxes) and purchases of commodity volumes for resale 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.

Marketing

Our reportable operating segments include activities related to the marketing and transportation of substantially all of our crude oil and condensate, NGLs and natural gas. 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.

Major Customers

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 continuous review, and includes the use of master netting agreements, where appropriate.

Customers and their respective affiliates who accounted for 10% or more of our total commodity sales were as follows:

	December 31,		
	2023	2022	2021
Percentage of Total Commodity Sales			
Marathon Petroleum Corporation	22 %	22 %	17 %
Trafigura Groupe Pte. Ltd.	12 %	10 %	N/A
Valero Marketing and Supply	11 %	12 %	10 %

Gross Delivery Commitments

We have commitments to customers to deliver gross quantities of crude oil and condensate and natural gas under a variety of contracts. As of December 31, 2023, the contracts for fixed and determinable quantities were at variable, market-based pricing and related primarily to the following commitments:

	2024	2025	2026	Thereafter	Commitment Period Through
Eagle Ford					
Crude and condensate (<i>mbbl/d</i>)	17	—	—	—	2024
Bakken					
Crude and condensate (<i>mbbl/d</i>)	10	10	10	5	2027
Permian					
Natural gas (<i>mmcf/d</i>)	20	—	—	—	2024
EG					
Natural gas (<i>mmcf/d</i>)	53	53	53	53	2028

All of these contracts provide the option of delivering third-party volumes or paying a monetary shortfall penalty if production is inadequate to satisfy our commitment. In addition to the 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 we compete with major integrated and independent oil and gas companies, national oil companies, and to a lesser extent, companies that supply alternative sources of energy. We compete, in particular, for the acquisition of oil and natural gas leases and other properties, in the exploration for and development of new reserves, the marketing and delivery of our production into worldwide commodity markets and for the labor and equipment required for exploration and development of those properties. Principal methods of competing include geological, geophysical and engineering research and technology, experience and expertise, economic analysis in connection with portfolio management and safely operating oil and gas producing properties. See [Item 1A. Risk Factors](#) for discussion of specific areas in which we compete and related risks.

Government Regulations

Our businesses are subject to numerous laws and regulations, including those related to oil and gas exploration and production and to the protection of HES. New laws have been enacted or are otherwise being considered and regulations are being adopted by various regulatory agencies on a continuing basis. The costs of compliance with these new laws and regulations cannot be broadly appraised until their implementation becomes more defined. However, the current federal administration has begun implementing policies to increase regulation of oil and gas activity with the express purpose of transitioning the economy to lower-carbon sources of energy consistent with the administration's focus on climate change. This administration's climate policies have been wide-ranging and have included both legislative and executive branch action to address climate change and provide incentives to accelerate development of renewable resources.

The current administration has issued a number of executive and temporary orders and policy changes that address broad ranging issues including climate change, oil and gas activities on federal lands, infrastructure and environmental justice. These actions have been followed by a number of related final rules and regulatory proposals that are in various stages of the rulemaking process including: more stringent and potentially overlapping regulations of emissions from oil and gas activities, changes to the definition of WOTUS, increased barriers to access to federal lands for oil and gas development, increased protection for endangered species, more stringent permitting requirements for oil and gas facilities, additional disclosures for climate change risks and implementing regulations for provisions of the IRA.

We expect these rules and regulatory proposals, if finalized, may increase our administrative costs and affect the issuance of permits and/or agency approvals. If permits and approvals are not issued, or if unfavorable restrictions or conditions are imposed on our drilling activities, we may not be able to conduct our operations as planned. At this time, we do not expect that the final rules or proposed or anticipated rulemakings will affect our operations materially differently than they would affect other companies with similar operations, size and financial strength. However, the finalized versions of the proposed rules or new rules could have a material adverse impact on our business individually or collectively, depending on the final terms and timing of implementation.

States in which we operate are also considering making proposals to address climate change or increase regulation of the oil and gas industry. While there are not currently climate-related regulations proposed or pending at the state level in our operating areas that we believe will result in material capital, operating, tax or other costs to the business at this time, such regulations could be proposed and/or passed into law in 2024 or beyond. Other regulations currently in place could be withdrawn and replaced with more stringent requirements in the future.

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 is responsible for ensuring 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 (“CERT”) that oversees our response to any major environmental or other emergency incident involving us or any of our properties.

Environmental Remediation and Waste Management

Our business is subject to laws relating to remediation of environmental pollution and the storage, handling and disposal of waste. These laws, and their implementing regulations and other similar state and local laws and rules, can impose certain operational requirements for (i) minimization of pollution, (ii) monitoring, reporting and recordkeeping requirements or (iii) other operational or siting constraints on our business. These controls result in costs to remediate releases of regulated substances, including crude oil and produced water, into the environment, or require costs to remediate third-party sites to which we transported 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.

Waste regulations include those for management, storage, transportation and disposal. Additional or expanded regulations relating to oilfield waste may be adopted in the future that potentially impact the costs of compliance, handling, management and availability of disposal options.

Air and Climate Change

Concerns about emissions from oil and gas activities including volatile organic compounds, carbon dioxide, methane and other GHG’s may affect us and other similarly situated companies operating in the oil and gas industry. As described in more detail below, new rules and regulatory proposals seek to reduce emissions of GHG’s. As part of our commitment to environmental stewardship and as required by law, we estimate and publicly report certain GHG emissions from our operations. We are also working to continuously improve the accuracy and completeness of these estimates. Finally, we continue initiatives to highlight our commitment to improving environmental performance, including quantitative goals for the near-, medium- and long-term time horizon across three core areas of focus: GHG intensity, methane intensity and gas capture. We include a GHG emissions intensity target to our short-term incentive annual cash bonus scorecard to better reflect these initiatives.

Government entities and other groups have filed lawsuits in several states and other jurisdictions seeking to hold a wide variety of companies that produce fossil fuels liable for the alleged impacts of the GHG emissions attributable to those fuels. The lawsuits allege damages as a result of climate change and the plaintiffs are seeking unspecified damages and abatement under various tort theories. Marathon Oil has been named as a defendant in several of these lawsuits, along with numerous other companies. Similar lawsuits may be filed in other jurisdictions. While the ultimate outcome and impact to us cannot be predicted with certainty, we believe that the claims made against us will not have a material adverse effect on our consolidated financial position, results of operations or cash flow.

In June 2016, the EPA finalized amendments to the New Source Performance Standards (NSPS), known as Subpart OOOOa, focused on achieving additional methane and volatile organic compound reductions from new and modified oil and natural gas production and transmission facilities. In November 2021, the EPA issued a proposed rule intended to reduce methane emissions from new and existing oil and gas sources pursuant to newly created Subparts OOOOb and OOOOc. On December 2, 2023, the EPA announced the final language of Subparts OOOOb and OOOOc, which, among other things, require the phase out of routine flaring of natural gas from newly constructed wells (with some exceptions) and routine leak monitoring at all well sites and compressor stations. The applicability date for Subparts OOOOb and OOOOc is December 6, 2022, meaning that sources constructed prior to that date will be considered existing sources with later compliance deadlines under state plans. The final rule gives states, along with federal tribes that wish to regulate existing sources, two years to develop and submit their plans for reducing methane emissions from existing sources. The final emissions guidelines under Subpart OOOOc provide three years from the plan submission deadline for existing sources to comply. Additionally, in mid-2021, the State of New Mexico implemented regulations that seek to reduce GHG emissions in the state. In November 2022, BLM proposed a rule requiring additional royalties on methane emissions and regulations designed to limit venting and flaring on public and tribal lands, and a final rule is expected in early 2024. Although there may be an adverse financial impact (including compliance costs, potential permitting delays and increased regulatory requirements) associated with these initiatives, the extent and magnitude of impacts cannot be reliably or accurately estimated due to the present uncertainty regarding any additional measures and how they will be implemented.

The EPA finalized a more stringent NAAQS for ozone in October 2015. States that contain any areas designated as non-attainment, and any tribes that chose to do so, were required to develop implementation plans. The EPA may in the future designate additional areas, including but not limited to portions of the Permian Basin, as non-attainment, impacting areas in which we operate. In January 2023, the EPA proposed a rule that would lower the annual particulate matter of less than 2.5 microns (PM_{2.5}) NAAQS from the current 12 micrograms per meter cubed ($\mu\text{g}/\text{m}^3$) to a level between 9 $\mu\text{g}/\text{m}^3$ and 10 $\mu\text{g}/\text{m}^3$. A final rule was expected by the end of 2023 but is now expected in 2024. The implementation of this proposed limit, or the promulgation of a more stringent standard in the future, 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 (if finalized), 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.

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.

The federal administration previously included as part of its platform actions that could amount to a de facto ban on hydraulic fracturing on federal lands and the EPA and other federal agencies, including the BLM, have previously made proposals that, if implemented, could either restrict the practice of hydraulic fracturing or subject the process to further regulation (and there is some question as to whether this could extend to tribal lands). Further, state and local-level initiatives may be proposed in regions with substantial shale resources 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. Although there may be an adverse financial impact (including compliance costs, potential permitting delays and increased regulatory requirements) associated with these initiatives, 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.

Water

In 2014, the EPA and the U.S. Army Corps of Engineers (“Corps”) published proposed regulations which expand the scope of surface waters that are regulated under the federal CWA and its various programs known as WOTUS. In 2015, the EPA and the Corps issued a rule defining the scope of the EPA’s and the Corps’ jurisdiction over WOTUS, which never took effect before being replaced by the Navigable Waters Protection Rule (“NWPR”) in 2020. A coalition of states and cities, environmental groups and agricultural groups challenged the NWPR, which was vacated by a federal district court in August 2021. The EPA is undergoing a two-phase rulemaking process to redefine WOTUS, which could be impacted by the U.S. Supreme Court’s upcoming decision in *Sackett v. EPA*, a case regarding the proper test in determining whether wetlands qualify as WOTUS. A final rule, known as “Rule 1”, was announced by the EPA and the Corps in December 2022. In January 2023, the EPA and the Corps issued a final rule that based the definition of WOTUS on the pre-2015 definition. Separately, in May 2023, the U.S. Supreme Court’s decision in *Sackett v. EPA* narrowed federal jurisdiction over wetlands to “traditional navigable waters” and wetlands or other waters that have a “continuous surface connection” with or are otherwise indistinguishable from traditional navigable water. In September 2023, the EPA and the Corps published a direct-to-final rule that conforms the regulatory definition of WOTUS to the Supreme Court’s May 2023 decision in *Sackett*. However, litigation opposing the September 2023 final rule remains ongoing and substantial uncertainty exists with respect to future implementation of the September 2023 rule and the scope of CWA jurisdiction more generally.

Any expansion of CWA jurisdiction could result in additional costs of compliance as well as increased monitoring, recordkeeping and recording for some of our facilities. There is also increasing interest in nature-related matters beyond protected species, such as general biodiversity, which may similarly require us or our customers to incur costs or take other measures which may adversely impact our business or operations.

Other Oil and Gas Regulations

The U.S. Fish & Wildlife Service has undertaken actions to rescind, revise or reinstate a number of wildlife-related regulations that relate to protection of endangered species and their habitats. Additional actions in this area are expected and may result in additional costs of compliance, as well as operational delays or siting challenges.

For a discussion of environmental capital expenditures and costs of compliance for air, water, solid waste and remediation matters, 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**.

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

Trademarks, Patents and Licenses

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

Human Capital Management

Oversight and Management

At Marathon Oil, we believe talent is foundational to delivering on our corporate strategy. It allows us to consistently deliver on our framework for success, aimed at achieving sustainable free cash flow, meaningful return of capital to our shareholders and differentiated execution underpinned by a strong balance sheet, ESG excellence and our multi-basin portfolio. Intentional human capital management strategies enable us to attract, engage, develop and deploy our dedicated employees. We also believe in creating a safe, clean and ethical environment where employees feel empowered to make a difference in support of our business objectives and strategies. Our Vice President of Human Resources has leadership accountability for our workforce management policies and programs and reports directly to our CEO. She reviews quarterly talent data with our Executive Committee to assess the talent landscape and ensure measurement and accountability for human capital outcomes. Our Board of Directors provides oversight to our human capital management strategies as an integral part of our overall Enterprise Risk Management process. Due to the importance of our workforce capabilities, the Board of Directors receives updates on our human capital management measures as topical matters arise, such as talent as an enterprise risk, employee engagement, diversity and inclusion, succession, HES and corporate social responsibility. Please visit marathonoil.com/sustainability for information on all dimensions of our corporate social responsibility. The information contained on or accessible through our website is not incorporated by reference herein or otherwise made a part of this Annual Report on Form 10-K or any of our other filings with the SEC.

Our Culture

We believe in fostering an inclusive culture to ensure the strength and resilience of our business. With respectful relationships core to our culture, we are committed to creating an environment where everyone can achieve their full potential. Our Code of Business Conduct, which applies to our directors, officers, employees and other parties when they are acting on behalf of Marathon Oil, reinforces our long-standing commitment to high ethical standards and summarizes the fundamental importance of acting with integrity. It includes specific sections on Diversity, Equity and Inclusion (“DEI”), as well as Mutual Respect. These sections include an emphasis on fostering an inclusive work environment and making hiring, promotion and disciplinary decisions based on relevant qualifications, merit, performance and similar job-related factors. We believe our diversity of people, experiences and ideas provides us with a business advantage. We are committed to fair and nondiscriminatory hiring and to celebrating the diversity of our workforce.

Our Talent Landscape

As of December 31, 2023, we had 1,681 active, full-time employees worldwide. Approximately 74% of our full-time workforce was based in the United States with 26% in E.G. Through recruiting, training, workforce integration, education and vocational programs, we strive to have a workforce reflective of the areas in which we operate. In 2023 and as a result of intentional nationalization efforts, 94% of our MEGPL workforce was Equatoguinean.

In 2023, we completed the acquisition of Ensign, and were excited to welcome former Ensign employees to our One Team culture at Marathon Oil.

For the U.S. workforce, our average tenure for full-time employees as of December 31, 2023 was 8 years, with 32% of our full-time population having 10 or more years of experience. Women accounted for 30% of our U.S. full-time workforce, and people of color accounted for 32%. We encourage DEI and cultivate our collaborative team environment by making training courses on diversity and inclusive best practices available to all employees. In 2023, we expanded voluntary enterprise-wide DEI training to all field locations, including E.G., to continue to foster our One Team culture. We support Employee Resource Groups (“ERGs”) to promote diverse perspectives, encourage networking and allow continuous development activities. We also continued to support the mental well-being of our employees by focusing on educating and empowering our employees to talk about mental wellness and promoting the resources available to them.

Additionally, we continued to offer our workforce flexibility program to eligible employees, which preserves our collaborative One Team culture while also providing options for our employees to better manage their career, work-life balance and overall well-being. Further, we committed time this year to showcasing feedback from our employees that captures the unique characteristics that attract people to Marathon Oil and keep our employees engaged as part of our One Team culture. Aligned to that exercise, we also rolled out our new Total Rewards Statement, which offers employees a comprehensive and uniquely personalized view of their total rewards package.

Recognizing the cyclical nature of our business and the dynamic talent demands, we conduct a proactive risk analysis annually as part of our Enterprise Risk Management process, including a multi-year view of any potential talent risks to ensure we are prepared to respond to the macro-environment while setting ourselves up for long-term success. We fully leverage our common asset team organizational structure to drive knowledge sharing, collaboration and talent deployment across these teams which we believe results in efficiency gains and enhanced execution. We utilize a managed service provider to oversee efficient administration, equitable treatment and compliance auditing of our contingent labor workforce.

HES

We believe having a strong HES culture is a core value and engrained in all aspects of our business. We work to uphold our HES culture by attracting, developing and retaining individuals and partners who share our commitment to operational excellence and embodying our principles. Marathon Oil’s leadership establishes clear expectations to all personnel to comply with internal and external HES requirements. Furthermore, our HES values are embedded within our culture and the support we provide to our employees. We provide and require job specific HES training for our employees and safety-sensitive contractors as part of our Responsible Operations Management Systems (“ROMS”), which is a comprehensive operations integrity management system. This training includes stop work authority which is extended to all employees and contractors in the event of a potential safety risk or environmental impacts. We also have established Life Critical Expectations that focus on important protective measures for employees and contractors performing higher-risk activities, and Environmental Critical Expectations to help us continually improve our environmental performance.

We leverage our collective talent and seek diverse employee perspectives to address complex HES issues and events through the use of multi-functional teams and committees, such as our internal CERT and Emissions Management Committee (“EMC”). The EMC prioritizes GHG and methane emissions reduction opportunities across our enterprise and is responsible for ensuring appropriate funding is in place as part of our overall capital allocation process. Our commitment to addressing the dual challenge of meeting the world’s growing energy demands while also taking action on climate change is evidenced by GHG intensity featuring prominently as a metric linked directly to compensation outcomes.

Our values to collaborate, take ownership, be bold and deliver results enable us to excel, but that’s only possible if our workforce is safe. We actively look out for each other, maintain a safe work environment, protect the environment and continuously improve our procedures and train our workforce. Marathon Oil utilizes ROMS to manage risk and strives for a safe, healthy and secure workplace where all those involved can work free of injury and illness. Our Total Recordable Injury Rate (“TRIR”) is just one of the metrics we use to measure our success in providing a safe working environment and is linked directly to compensation outcomes. Marathon Oil strives to only partner with contractors who share our same commitment to HES. We carefully evaluate contractors through a rigorous supply chain process to verify they possess all necessary HES programs to execute work in a manner that meets our expectations.

Benefits

We attract and retain talent by offering benefit programs that are competitive and comprehensive. These programs create flexibility that allows employees to develop a meaningful career and overall well-being for themselves and their families. In 2022, we made the commitment to fund employee premiums for health plans through 2023 to help support them through ongoing inflationary pressures. In September 2023, we reaffirmed this commitment to cover the premiums for employees and their families through 2024. At that time, we also announced further enhanced benefits, including our wellness and fitness programs. Our goal is to support employees with benefit programs that are consistent with our vision and strategies. We align the value of the benefit programs to the local markets where we compete for talent, along with the broader oil and gas industry. We believe effective communication around our benefit programs helps ensure we understand employees’ perceptions and values around our benefits and that our employees understand the breadth and value of the benefits provided.

Compensation

Our success is based on financial performance and operational results, and we believe that our compensation program is an important driver of that success. The primary objectives of our programs are to pay for performance, encourage long-term stockholder value and pay competitively. To accomplish this, our compensation program is designed to reward employees for their performance and motivate them to continue to perform at a high level through both absolute feedback and relative performance assessment. The annual cash bonus is our short-term incentive for eligible employees, which reinforces both corporate and individual annual performance and prioritizes both financial and operational metrics. Eligible employees may also receive long-term incentives in the form of restricted stock unit awards that vest over multiple years to support retention and aligns employee interests with those of our stockholders, by driving value at the enterprise level. We provide market-competitive pay levels to attract and retain the best talent. We regularly benchmark each component of our pay program, including our benefit programs, against our peers and a broader subset of the oil and gas industry, to ensure we remain competitive. See the “Compensation Discussion and Analysis” section of our Annual Proxy for information on our Executive Officers.

Talent Development

We invest in talent processes that drive high performance. We take a multi-pronged approach to organizational learning, which is driven through our centralized on-demand development hub and informed by our enterprise-wide talent assessment process. Our organizational learning approach blends online, on-the-job and classroom training with 360 assessments and leadership coaching to ensure all employees receive the feedback, tools and time they need to reach their fullest potential. Continuous leadership development is offered to all leaders throughout the year and content is intentionally focused on learning objectives. These programs range from new manager trainings to executive-level business simulations. In 2023, we introduced a Leadership Development Program for mid-level and high potential employees, which combined training sessions, practical work experiences, professional coaching, behavioral assessments, team projects, self-study activities and more.

We review talent across the enterprise, measuring both technical and leadership capabilities. In 2023, we leveraged robust talent assessment data to further our understanding of the internal talent landscape which allowed for more comprehensive talent planning. These assessments helped to identify critical skill gaps, guide critical skills training and ensure the effective deployment of talent. Our talent planning processes are aligned and consistent across the organization to ensure top talent occupies our most critical roles. Our succession process is designed to ensure we have identified the experiences and exposures needed to prepare employees for success in future senior leadership roles. We utilize an employee mentoring program, which focuses on increasing communication, connection and trust to advance our culture. We also continued our Board of Directors mentoring program, which pairs senior leaders with directors. Additionally in 2023, we formalized communities of practice across all six of our petro-technical disciplines to further our culture of innovation and collaboration through knowledge and best practice sharing across our multiple basins.

Executive Officers

The executive officers of Marathon Oil and their ages as of February 1, 2024, are as follows:

Lee M. Tillman	62	Chairman, President and Chief Executive Officer
Dane E. Whitehead	62	Executive Vice President—Chief Financial Officer
Patrick J. Wagner	59	Executive Vice President—Corporate Development and Strategy
Mike Henderson	54	Executive Vice President—Operations
Kimberly O. Warnica	50	Executive Vice President—General Counsel and Secretary
Rob L. White	54	Vice President, Controller and Chief Accounting Officer

Mr. Tillman was appointed by the Board of Directors as chairman of the board effective February 1, 2019. In August 2013, he was appointed as president and chief executive officer. 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.

Mr. Whitehead was appointed executive vice president and chief financial officer in March 2017. Prior to this appointment, Mr. Whitehead served as executive vice president and chief financial officer of both EP Energy Corp. and EP Energy LLC (oil and natural gas producer) since May 2012. Between 2009 and 2012, Mr. Whitehead served as senior vice president of strategy and enterprise business development and a member of El Paso Corporation’s executive committee. He joined El Paso Exploration & Production Company as senior vice president and chief financial officer in 2006. Before joining El Paso, Mr. Whitehead was vice president, controller and chief accounting officer of Burlington Resources Inc. (oil and natural gas producer), and formerly senior vice president and CFO of Burlington Resources Canada.

Mr. Wagner was appointed executive vice president of corporate development and strategy in November 2017 after having served as senior vice president of corporate development and strategy since March 2017, vice president of corporate development and interim chief financial officer since August 2016 and vice president of corporate development since April 2014. Prior to this appointment, 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.

Mr. Henderson was appointed executive vice president, operations in March 2021, after having served as senior vice president, operations since May 2020, and as vice president of Regional Plays North since October 2017. Prior to that he held successive regional vice president roles since 2013 and managed operations in Oklahoma, North Dakota and Wyoming. Prior to his work in the resource plays, Mr. Henderson was development manager for international production operations in E.G. and has been involved in a number of Marathon Oil’s major projects in E.G., Norway and the Gulf of Mexico over the course of his career. Before joining Marathon Oil in 2004, he was employed by ExxonMobil, where he served in a number of operations and project management roles of increasing responsibility.

Ms. Warnica was appointed executive vice president, general counsel in March 2022 after having served as senior vice president, general counsel since January 2021. Ms. Warnica was appointed secretary in March 2021. Prior to joining Marathon Oil, she was executive vice president, general counsel, chief compliance officer and secretary at Alta Mesa Resources, Inc. (an exploration and production and midstream company), since 2018. Prior to Alta Mesa, Ms. Warnica served in several positions in the Marathon Oil legal department from 2016 to 2018, including assistant general counsel and assistant secretary. Prior to Marathon Oil, Ms. Warnica served as assistant general counsel and assistant secretary at Freeport-McMoRan Oil & Gas (formerly Plains Exploration and Production Company, an oil and gas production company). She started her career at Andrews Kurth LLP.

Mr. White was appointed vice president, controller and chief accounting officer in February 2022 after having served as vice president of internal audit since May 2020. Prior to that, he served as director of operations planning from January 2018 to May 2020 and director of central evaluation and financial planning from January 2014 to December 2017. Since joining Marathon Oil in 1991, Mr. White also served in various other leadership positions of increasing responsibility in corporate planning and domestic and international accounting, including manager of financial planning, manager of domestic accounting and accounting manager in E.G.

Available Information

Our website is www.marathonoil.com. Our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, 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 us at 990 Town and Country Boulevard, Houston, Texas 77024-2217, Attention: Investor Relations Office, telephone: (713) 629-6600. 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 (including our 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.

Risks Associated with Our Industry

A substantial decline in crude oil and condensate, NGLs and natural gas prices would reduce our operating results and cash flows and could adversely impact the carrying value of our assets.

The markets for crude oil and condensate, NGLs and natural gas have been volatile and are likely to continue to be volatile in the future, causing prices to fluctuate widely. Our revenues and operating results are highly dependent on the prices we receive for our crude oil and condensate, NGLs and natural gas. Many of the factors influencing prices of crude oil and condensate, NGLs and natural gas are beyond our control. These factors include:

- worldwide and domestic supplies of and demand for crude oil and condensate, NGLs and natural gas;
- the cost of exploring for, developing and producing crude oil and condensate, NGLs and natural gas;
- the ability of the members of OPEC+ 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, such as the ongoing conflict between Russia and Ukraine, and in the Middle East;
- changes in weather patterns and climate;
- natural disasters such as hurricanes and tornadoes;
- the price and availability of alternative and competing forms of energy, such as nuclear, hydroelectric, wind and solar;
- the effect of conservation efforts;
- epidemics or pandemics, such as COVID-19;
- 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 and natural gas are uncertain. Historical declines in commodity prices have adversely affected our business by:

- reducing the amount of crude oil and condensate, NGLs and natural gas 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 and natural gas; and
- increasing the costs of obtaining capital, such as equity and short- and long-term debt.

Estimates of crude oil and condensate, NGLs and natural gas 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 and natural gas were prepared, in accordance with SEC regulations, by teams of reservoir engineers and geoscience professionals and were reviewed and approved by our Corporate Reserves Group. Reserves were valued based on SEC pricing for the periods ended December 31, 2023, 2022 and 2021, as well as other conditions in existence at those dates.

If commodity prices in the future average below prices used to determine proved reserves at December 31, 2023, it could have an adverse effect on our estimates of proved reserve volumes and the value of our business. 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 and natural gas that cannot be directly measured. 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;
- the assumed impacts of regulation by governmental agencies;
- assumptions concerning 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.

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 gathering and transportation pipeline facilities, rail cars, trucks and vessels. These facilities and equipment may be temporarily unavailable to us due to market conditions, regulatory reasons, mechanical reasons or other factors or conditions, and may not be available to us in the future on terms we consider acceptable, if at all. 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 and natural gas, which could increase the costs and/or reduce the revenues we might obtain from the sale of our production. All or a portion of our production in one or more regions may be interrupted or shut in from time to time due to a loss of access to suitable transportation. A pipeline shutdown could also have an impact on safety because it would require the use of additional trucks, rail cars and personnel. In addition, both the cost and availability of pipelines, rail cars, trucks or vessels to transport our production could be adversely impacted by new state or federal regulations relating to transportation of our products. Any significant change in market, regulatory or other conditions affecting our access to, or the availability of, these facilities and equipment, including due to our failure or inability to obtain access to these facilities and equipment on terms acceptable to us or at all, could materially and adversely affect our business and, in turn, our financial condition and results of operations.

If we acquire crude oil and natural gas properties, our failure to fully identify existing and potential problems, including title 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 natural gas properties and leases. For example, in December 2022, we completed the acquisition of the Eagle Ford assets of Ensign for total cash consideration of \$3.0 billion. 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, including title problems, nor may they permit us to become sufficiently familiar with the properties in order to fully assess possible deficiencies and potential problems prior to closing. Properties and leases that we acquire may be subject to prior unregistered agreements, or transfers which have not been recorded or detected through our due diligence. If title to property associated with our projects is challenged, we may have to expend funds defending any such claims and our ownership interest therein may be detrimentally affected if we lose. 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, NGLs and natural gas (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.

Our operations may be affected by Native American treaty, title and other rights or claims.

We are, and may in the future become, subject to various laws and regulations that apply to operators and other parties operating within the boundaries of Native American reservations in the United States. These laws and regulations may result in the imposition of certain fees, taxes, environmental standards, lease conditions or requirements to employ specified contractors or service providers. Any one of these requirements, or any delay in obtaining, or inability to obtain, the approvals or permits necessary to operate within the boundaries of Native American tribal lands, could adversely impact our operations and ability to explore and develop new and existing properties. Additionally, from time to time, disputes may arise between state or federal governments and Native American tribes regarding title to lands within the United States or questions of sovereignty between the states and Native American tribes. For example, the State of North Dakota and the Mandan, Hidatsa and Arikara Nation or MHA Nation, also known as the Three Affiliated Tribes of the Fort Berthold Indian Reservation (the “Three Affiliated Tribes”) represented by the Bureau of Indian Affairs, have been involved in a dispute regarding the ownership of certain lands underlying the Missouri River and Little Missouri River (the “Disputed Land”) from which we currently produce. The United States Department of the Interior (“DOI”) has addressed the United States’ position with respect to this dispute several times over the past five years with conflicting opinions. Most recently, on February 4, 2022, the DOI issued an opinion (“2022 M-Opinion”) concluding the DOI’s position that the Disputed Land is held in trust for the Three Affiliated Tribes. While the 2022 M-Opinion is binding on all agencies within the DOI, it is not legally binding on third parties, including Marathon Oil, the State of North Dakota or a court. Depending on the ultimate outcome of this title dispute, the Three Affiliated Tribes could challenge the validity of certain of our leases relating to a portion of the disputed land, and if such challenge were successful it could result in operational delays and additional costs, which could have a material and adverse effect on our business and results of operations. In addition, the process of addressing such claim or dispute, regardless of the outcome, could be expensive and time consuming and could result in delays which could have a material and adverse effect on our business, financial condition and results of operations.

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

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, or disruption in, access to pipelines or other transportation methods; and
- shortages or delays in the availability of services or delivery of equipment.

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 and natural gas 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.

We are subject to various climate-related risks, including risks related to the transition to a lower-carbon economy and physical risks resulting from climate change.

The following is a summary of potential climate-related risks that could adversely affect us:

Policy and Legal Risks. Policy risks include actions that seek to lessen activities that contribute to adverse effects of climate change or to promote adaptation to climate change, such as the enactment of climate change-related regulations, policies and initiatives addressing alternative energy requirements, new fuel consumption standards, energy conservation and emissions reductions measures or responsible energy development, among other measures. These developments may reduce demand for products manufactured with, or powered by, petroleum products and the demand for, and in turn the prices of, the natural gas, crude oil, and NGLs that we sell. Policy actions also may include restrictions or bans on oil and gas activities, like the January 2021 Presidential and Secretarial orders, and the potential banning of hydraulic fracturing, which could lead to write-downs or impairments of our assets. Legal risks include potential lawsuits claiming, among other things, failure to mitigate impacts of climate change, failure to adapt to climate change and the insufficiency of disclosure around material financial risks. For instance, government entities and other groups have filed lawsuits in several states seeking to hold a wide variety of companies that produce fossil fuels liable for the alleged impacts of the GHG emissions and other alleged harm attributable to those fuels. The lawsuits allege damages as a result of climate change and the plaintiffs are seeking unspecified damages and abatement under various theories. Marathon Oil has been named as a defendant in several of these lawsuits, along with numerous other companies. The increasing attention to global climate change risks has created the potential for a greater likelihood of governmental investigations and private and public litigation, which could increase our costs or otherwise adversely affect our business.

Market Risks. Markets could be affected by climate change through shifts in supply and demand for certain commodities, including oil and gas and other products dependent on oil and gas. Lower demand for our oil and gas production, or lower demand for products that use oil and gas as fuel sources or increased demand for lower-emission or more efficient products and services, could result in lower prices and lower revenues or adversely impact, among other things, the availability to us of necessary third-party services and facilities on which we rely. Market risk also may take the form of limited access to capital as investors shift investments to industries and alternative energy industries that may be, or be perceived to be, less carbon-intensive. In addition, certain investment advisers, banks and sovereign wealth, pension and endowment funds recently have been promoting divestment of investments in fossil fuel companies and pressuring lenders to limit funding to companies engaged in the extraction, production and sale of oil and gas. Some banks and asset managers have made climate-related pledges or guidelines for various initiatives or banking or investing activities, such as stopping the financing of Arctic drilling and coal companies. There is also a risk that financial institutions may be required to adopt policies that have the effect of reducing the funding provided to the fossil fuel sector. These initiatives could interfere with our business activities, operations and ability to access capital. Institutional lenders who provide financing to energy companies such as ours have also become more attentive to sustainable lending practices, and some may elect not to provide traditional energy producers or companies that support such producers with funding. Such developments could result in downward pressure on the stock prices of oil and gas companies, including ours, and may also result in the restriction, delay or cancellation of infrastructure projects and energy production activities, ultimately impacting our future financial results.

Technology Risks. Technological improvements or innovations that support the transition to a lower-carbon economic system may have a significant impact on us. The development and use of emerging technologies relating to renewable or alternative forms of energy, battery storage and energy efficiency may lower demand for oil and gas, resulting in lower prices and revenues. In addition, many automobile manufacturers have announced plans to shift production from internal combustion engine to electric powered vehicles, and some states and foreign countries have announced bans on sales of internal combustion engine vehicles beginning as early as 2025, which would reduce demand for oil. Furthermore, as others within our industry use or develop new technological advances to lower emissions, we may be placed at a competitive disadvantage or may be forced by competitive pressures to implement new technologies at substantial costs. We may not be able to respond to these competitive pressures or implement new technologies on a timely basis or at an acceptable cost. If one or more of the technologies we use now or in the future were to become obsolete, our business, financial condition or results of operations could be materially and adversely affected.

Reputation Risk. Climate change is a potential source of reputational risk, which is tied to changing customer or community perceptions of an organization's contribution to, or detraction from, the transition to a lower-carbon economy. These changing perceptions could lower demand for our oil and gas production, resulting in lower prices and lower revenues as consumers avoid carbon-intensive industries, and could also pressure banks and investment managers to shift investments and reduce lending as described above.

Physical Risks. Potential physical risks resulting from climate change may be event driven (including increased severity of extreme weather events, such as hurricanes, winter storms, droughts or floods) or longer-term shifts in climate patterns that may cause sea level rise or chronic heat waves. Potential physical risks may cause environmental or safety incidents, direct damage to assets, and indirect impacts such as supply or distribution chain disruption and also could include changes in water or other raw material availability, sourcing, pricing and quality, which could impact drilling and completions operations. These physical risks could adversely affect or delay demand for oil or natural gas, cause increased costs, production disruptions and lower revenues and substantially increase the cost or limit the availability of insurance. A decrease in energy use due to weather changes may affect our financial condition through decreased revenues. Our ability to mitigate the adverse physical impacts of climate change depends in part upon our disaster preparedness and response and business continuity planning.

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

Offshore operations present technological challenges and operating risks because of the marine environment. Activities in offshore operations may pose risks because of 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.

Risks Related to Our Business Model and Capital Structure

If we are unsuccessful in acquiring or finding additional reserves, our future crude oil and condensate, NGLs and natural gas 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 and natural gas properties generally decline 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 may decline materially as crude oil and condensate, NGLs and natural gas are produced. Accordingly, to the extent we are not successful in replacing the crude oil and condensate, NGLs and natural gas we produce, our future revenues may 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 and natural gas in promising areas;
- drilling success;
- the ability to complete projects timely and cost effectively;
- the ability to find or acquire additional proved reserves at acceptable costs; and
- the ability to fund such activity.

If crude oil and condensate, NGLs and natural gas prices decrease, it could adversely affect the abilities of our counterparties or joint venture partners to perform their obligations to us, 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, or transportation of crude oil and condensate, NGLs and natural gas, with partners, co-working interest owners 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 decrease, some of our counterparties may experience liquidity problems and may not be able to meet their financial and other obligations to us. The inability of our joint venture partners or co-working interest owners to fund their portion of the costs under our joint venture agreements and joint operating agreements, or the nonperformance by purchasers, contractors or other counterparties of their obligations to us, could negatively impact our operating results and cash flows.

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 drilling and completion activities, 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 level of indebtedness may limit our liquidity and financial flexibility.

As of December 31, 2023, our total long-term debt was \$5.0 billion, of which \$1.6 billion is due within the next year. In addition, we had outstanding commercial paper of \$450 million maturing at various dates. 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 unsecured revolving credit facility (the "Revolving Credit Facility") and Term Loan Facility stipulates that our total debt to total 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 and natural gas prices, inflation, interest rates 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 principal and 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 14** to the consolidated financial statements for a discussion of debt obligations.

Difficulty in accessing capital or a significant increase in our costs of accessing capital could adversely affect our business.

A downgrade of our credit ratings or other influences, including third-party groups promoting the divestment of fossil fuel equities or pressuring financial services companies to limit or curtail activities with fossil fuel companies, 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 commercial paper program, Revolving Credit Facility and Term Loan Facility, and may limit or reduce credit lines with our bank counterparties. We receive credit ratings on our debt obligations from the major credit rating agencies in the United States. Due to the volatility in worldwide crude oil, NGL and natural gas prices in recent years, credit rating agencies review companies in the energy industry periodically, including us. At December 31, 2023, our corporate credit ratings were: Standard & Poor's Global Ratings Services BBB- (stable); Fitch Ratings BBB- (positive); and Moody's Investor Services, Inc. Baa3 (stable). Each credit rating should be evaluated independently and is not a recommendation to buy, sell or hold securities, and may be subject to revision or withdrawal by the assigning rating organization from time to time. The credit rating process is contingent upon a number of factors, many of which are beyond our control. 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 Revolving Credit Facility. Limitations on our ability to access capital could adversely impact the level of our capital spending budget, 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, NGLs and natural gas, we, from time to time, enter into crude oil, NGL 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**.

Some of our major projects and operations are conducted jointly with other parties, 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 with other parties 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, bankruptcy, noncompliance with applicable laws and regulations or improper activities by or on behalf of one or more of our partners or co-working interest owners, or entities we have entered into arrangements with could have a significant negative impact on our business and reputation.

The declaration and payment of dividends, and repurchases of our common stock, are each within the discretion of our Board of Directors and subject to certain considerations and limitations.

The payment of future dividends on, and any repurchases of, our common stock are each subject to the discretion of our Board of Directors, which considers, among other factors:

- cash available;
- our results of operations and anticipated future results of operations;
- our financial condition, including liquidity, leverage and anticipated future capital expenditures required to conduct our operations;
- our operating expenses;
- general business and market conditions; and

- other factors our Board of Directors deems relevant.

We expect to continue to pay dividends to our stockholders; however, our Board of Directors may reduce our dividend or cease declaring dividends at any time, including if it determines that our current or forecasted future cash flows provided by our operating activities (after deducting our capital expenditures and other commitments) are not sufficient to pay our desired levels of dividends to our stockholders or to pay dividends to our stockholders at all.

In November 2023, our Board of Directors increased our remaining share repurchase program authorization to \$2.5 billion, however, this program may be suspended, modified, or discontinued by the Board of Directors at any time.

We can provide no assurance that we will continue to pay dividends or repurchase common stock at the current rate or at all. Any downward revision in the amount of dividends we pay to stockholders, or reduction in the pace of share repurchases, could have an adverse effect on the market price of our common stock.

Regulatory Compliance and International Operations Risks

We may incur substantial capital expenditures and operating costs, and our production could be adversely affected, as a result of compliance with and changes in law, regulations or requirements or initiatives, including those addressing environmental, health, safety or security or the impact of global climate change, air emissions or water management, and, as a result, our business, financial condition, results of operations and cash flows could be materially and adversely affected.

Our businesses are currently subject to numerous laws, regulations, executive orders and other requirements relating to the protection of the environment, including those relating to the discharge of materials into the environment such as the flaring of natural gas, waste management, pollution prevention, GHG emissions, including carbon dioxide and methane, prevention of seismicity 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.

The current administration issued a number of executive and temporary orders that address broad ranging issues including climate change, oil and gas activities on federal lands, infrastructure and environmental justice. These actions have been followed by a number of related final rules and regulatory proposals that are in various stages of the rulemaking process. New rules, amendments to existing rules or extensions along with implementation of the announced policy positions and initiatives that flow from these orders may have a material adverse impact on our business.

Additionally, states in which we operate are considering proposals to address climate change or increase regulations of the oil and gas industry or impose additional regulations based on questions of sovereignty between the states and Native American tribes. 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 or initiatives that are being considered or otherwise implemented. To the extent these expenditures, as with all costs, are not ultimately reflected in the prices of our products, our operating results could 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. For example, we have received Notices of Violations (“NOVs”)’s from the EPA related to alleged violations of the Clean Air Act with respect to our operations on the Fort Berthold Indian Reservation between 2015 and 2019. We continue to actively negotiate a draft consent decree with the EPA and Department of Justice. The resolution of the enforcement action will likely include monetary sanctions, for which we maintain an accrual of our estimate, and implementation of both environmental mitigation projects and injunctive terms, which would increase both our development costs and operating costs. Through the date of this filing, we are unable to estimate the full financial impact associated with this matter, as there exists substantial uncertainty as to the ultimate result of this matter and it is reasonably possible the result could be materially different from our expectations and our accrual.

The President and his administration have already taken steps to address climate change, and we expect actions like these to continue, including additional orders, laws or regulations that could affect our operations. Our operations result in GHG emissions. Currently, various legislative or regulatory measures to address GHG emissions (including carbon dioxide, methane and nitrous oxides) are in various phases of review, discussion or implementation in the U.S. Internationally, the Paris Agreement requires signatory countries to set voluntary targets to reduce domestic GHG emissions. In February 2021, the President set a “nationally determined contribution” for U.S. GHG emissions under the Paris Agreement that would achieve emissions reductions of at least 50% relative to 2005 levels by 2030. In addition, in September 2021, the President publicly announced the Global Methane Pledge, a pact that aims to reduce global methane emissions at least 30% below 2020 levels by 2030. Since its formal launch at the United Nations 26th Conference of Parties, over 150 countries have joined the pledge. At the 27th Conference of Parties, the President announced the EPA’s proposed standards to reduce methane emissions from existing oil and gas sources and agreed, in conjunction with the European Union and a number of other partner countries, to develop standards for monitoring and reporting methane emissions to help create a market for low methane-intensity natural gas. More recently, a number of countries have taken action calling for increasing renewable energy capacity and doubling energy efficiency improvements by 2030. Various state and local governments have also publicly committed to furthering the goals of the Paris Agreement.

In addition, the IRA passed by Congress in August 2022 includes a number of climate-focused spending initiatives aimed at climate resilience, enhanced response and preparation for extreme weather events and clean energy and transportation investments. The IRA also provides significant funding and incentives for research and development of low-carbon energy production methods, carbon capture and other programs directed at addressing climate change, including amendments to the Clean Air Act to impose a “waste emissions charge” on methane emissions of certain natural gas and oil sources that are already required to report under EPA’s Greenhouse Gas Reporting Program. In order to implement the program, the IRA required revisions to GHG reporting regulations for petroleum and natural gas systems (Subpart W) by 2024. In July 2023, the EPA proposed to expand the scope of the Greenhouse Gas Reporting Program for petroleum and natural gas facilities, as required by the IRA. Among other things, the proposed rule expands the emissions events that are subject to reporting requirements to include “other large release events” and applies reporting requirements to certain new sources and sectors. The rule is expected to be finalized in the spring of 2024 and become effective on January 1, 2025, in advance of the deadline for GHG reporting for 2024 (March 2025). The fee imposed under the Methane Emissions and Waste Reduction Incentive Program for 2024 would be \$900 per ton emitted over annual methane emissions thresholds, and would increase to \$1,200 in 2025, and \$1,500 in 2026. In addition, a number of U.S. state and regional efforts have emerged that are aimed at tracking and/or reducing GHG emissions by means of carbon taxes, policies and incentives to encourage the use of renewable energy or alternative low-carbon fuels, the development of GHG inventories and cap and trade programs that typically require major sources of GHG emissions, such as electric power plants, to acquire and surrender emission allowances in return for emitting those GHGs. Furthermore, many state and local leaders have intensified or stated their intent to intensify efforts to support international climate commitments and treaties. New or existing legislation, regulations or international agreements 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 GHG 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, and natural gas, stimulate demand for alternative forms of energy that do not rely on combustion of fossil fuels, limit future development opportunities, lower the value of our reserves, and create delays in our obtaining air pollution permits for new or modified facilities.

Regulations requiring the disclosure of GHG emissions and other climate-related information are also increasingly being adopted or proposed at the federal and state level. For example, on March 21, 2022, the SEC issued a proposed rule regarding the enhancement and standardization of mandatory climate-related disclosures. The proposed rule would require registrants to include certain climate-related disclosures in their registration statements and periodic reports. Although the proposed rule’s ultimate date of effectiveness and the final form and substance of these requirements is not yet known and the ultimate scope and impact on our business is uncertain, compliance with the proposed rule, if finalized, may result in increased legal, accounting, operational, technology and financial compliance costs, make some activities more difficult, time-consuming and costly and place strain on our personnel, systems and resources. We may also face increased litigation risks arising from climate-related disclosures required by regulations. In addition, enhanced climate disclosure requirements could accelerate the trend of certain stakeholders and lenders restricting or seeking more stringent conditions with respect to their investments in certain carbon-intensive sectors.

The 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. 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.

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.

The production of oil and gas inherently involves the generation of produced water and oil and gas waste. State and federal regulatory agencies have focused on a possible connection between the operation of injection wells used for oil and gas waste disposal and seismic activity. 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. When caused by human activity, such events are called induced seismicity. Marathon Oil operates produced water injection wells and contracts for disposal of oil and gas waste in injection wells operated by third parties. Additionally, Marathon Oil uses hydraulic fracturing techniques throughout its U.S. operations.

The legal requirements related to the disposal of produced water by means of underground injection wells are subject to change based on concerns of the public or governmental authorities regarding such disposal activities. One such concern arises from recent seismic events near injection disposal wells that are used for the disposal by injection of produced water resulting from oil and natural gas activities. In 2016, the United States Geological Survey identified New Mexico, Oklahoma and Texas as being among the states with areas of increased rates of induced seismicity that could be attributed to fluid injection or oil and natural gas extraction. In response to concerns regarding induced seismicity, regulators in some states have imposed, or are considering imposing, additional requirements in the permitting and operating of produced water disposal wells. For example, in Texas, the Railroad Commission adopted rules in 2014 governing the permitting or re-permitting of wells used to dispose of produced water and other fluids resulting from the production of oil and natural gas in order to address induced seismicity concerns within the state. Among other things, these rules require companies seeking permits for disposal wells to provide seismic activity data in permit applications, provide for more frequent monitoring and reporting for certain wells and allow the state to modify, suspend or terminate permits on grounds that a disposal well is likely to be, or determined to be, causing seismic activity. Another example includes the recent Seismic Event Mitigation Plan and Protocol announced by the New Mexico Oil Conservation Division in 2021, which requires monitoring and the potential curtailments or shut-ins of salt water disposal wells located within specified distances of certain seismic events. States may issue new orders or implement policies to temporarily shut down or to curtail the injection volumes of existing wells in the vicinity of seismic events. Legislative, regulatory and policy initiatives intended to address these concerns may result in additional levels of regulation or other requirements that could lead to operational delays, increase our operating and compliance costs or otherwise adversely affect our operations.

Another consequence of seismic events may be lawsuits alleging that disposal well operations have caused damage to properties or otherwise violated state and federal rules regulating waste disposal. These developments could result in additional regulation and restrictions on the use of injection wells by us or by third parties with whom we may contract to dispose of produced water. Increased regulation and attention given to induced seismicity could also lead to greater opposition, including litigation to limit or prohibit oil and natural gas activities utilizing injection wells for produced water disposal.

Any one or more of these developments may result in operational delays, increase our operating and compliance costs or otherwise adversely affect our operations.

Political and economic developments, possible terrorist activities and changes in law or policy in the U.S. or global markets could adversely affect our operations and materially reduce our profitability and cash flows.

Local political and economic factors in U.S. and global markets could have a material adverse effect on us. We are subject to the political, geographic and economic risks and possible terrorist or piracy activities or other armed conflict attendant to doing business within or outside of the U.S. There are also many risks associated with operations in E.G. including the possibility that the 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. Additionally, our international operations may be adversely affected by economic or geopolitical developments, regime changes, violence or other conflicts. Such developments could have a negative impact on our results of operations and cash flows. These developments or other international regulations or administrative impediments could adversely impact dividends or other distributions, and the timing thereof, from our equity method investees.

Changes in the U.S. or global political and economic environment or any U.S. or global hostility or 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 and natural gas. 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. These risks could also cause damage to, or the inability to access, production facilities or other operating assets and could limit our service and equipment providers ability to deliver items necessary for us to conduct our operations.

Actions of governments through tax legislation or interpretations of tax law, 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 U.S. or foreign laws could also adversely affect our results, including new regulations resulting in higher costs to comply with regulations and 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.

General Risks

Our sector and the broader U.S. economy experienced inflationary pressures in 2023 related to continued supply chain disruptions, labor shortages and geopolitical instability. Should these conditions persist, it may impact our ability to procure materials and equipment on a cost-effective basis, or at all, and, as a result, our business, results of operations and cash flows could be materially and adversely affected.

Throughout 2023, we experienced variations in the costs of certain materials, including steel, rigs and fuel, as a result of availability constraints, supply chain disruption, increased demand, labor shortages associated with a fully employed U.S. labor force, inflation and other factors. Our budget process incorporates a forecast for inflation, and while we have incorporated inflationary factors into our 2024 business plan, inflation could outpace those assumptions in 2024. These supply and demand fundamentals have been further aggravated by disruptions in global energy supply caused by multiple geopolitical events, including the ongoing conflict between Russia and Ukraine, and in the Middle East. We continue to undertake actions and implement plans to strengthen our supply chain strategy to address market pressures and protect the requisite access to commodities and services. Nevertheless, we expect for the foreseeable future to experience supply chain constraints and may continue to experience inflationary pressure on our cost structure. Unplanned supply chain constraints and inflationary pressures could continue to adversely impact our cost of operations if we are unable to mitigate these risks, and could also impact our ability to procure materials and equipment in a timely and cost-effective manner, if at all, which could result in reduced margins and production delays and, as a result, our business, financial condition, results of operations and cash flows could be materially and adversely affected.

Changes in U.S. and international tax rules and regulations, or interpretations thereof, may materially and adversely affect our cash flows, results of operations and financial condition.

We are subject to income- and non-income-based taxes in the United States under federal, state, and local jurisdictions and in the foreign jurisdictions in which we operate. Tax laws, regulations and administrative practices in various jurisdictions may be subject to significant change, with or without advance notice, due to economic, political and other conditions, and significant judgment is required in evaluating and estimating our provision and accruals for these taxes. Our tax liabilities could be affected by numerous factors, such as changes in tax, accounting and other laws, regulations, administrative practices, principles and interpretations, the mix and level of earnings in a given taxing jurisdiction or our ownership or capital structure. For example, on August 16, 2022, the United States enacted the IRA, which is highly complex, subject to interpretation, and contains significant changes to U.S. tax law including, but not limited to, a 15% corporate book minimum tax and a 1% excise tax on stock repurchases. The U.S. Department of the Treasury and the IRS are expected to release further regulations and interpretive guidance implementing the legislation contained in the IRA. Under current law and guidance, we have not been subject to the corporate book minimum tax in 2023 but anticipate that the corporate book minimum tax will apply in 2024. We expect the corporate book minimum tax to have a material effect on our consolidated cash taxes and it is possible that the enactment of other changes in the U.S. corporate tax system could have a similar impact in the future.

Outbreaks of communicable diseases have adversely affected and may continue to adversely affect our business, financial condition and results of operations.

Global or national health concerns, including a widespread outbreak of contagious disease, can, among other impacts, negatively impact the global economy, reduce demand and pricing for crude oil, NGLs and natural gas, lead to operational disruptions and limit our ability to execute on our business plan, any of which could materially and adversely affect our business, financial condition, results of operations and cash flows. Furthermore, uncertainty regarding the impact of any outbreak of contagious disease could lead to increased volatility in crude oil, NGLs and natural gas prices.

While demand for crude oil, condensate, NGLs, natural gas and other petroleum hydrocarbons significantly recovered as the COVID-19 pandemic evolved, we are unable to predict the future impact of epidemics and outbreaks of infectious diseases such as COVID-19 (including the emergence, contagiousness and threat of new and different strains), on overall economic activity and the demand for, and pricing of, our products. Epidemics and outbreaks of infectious diseases such as COVID-19, could have a negative impact on our operations; impact the ability of our counterparties to perform their obligations; result in voluntary and involuntary curtailments, delays or cancellations of certain drilling activities; impair the quantity or value of our reserves; result in transportation and storage capacity constraints; cause shortages of key personnel, including employees, contractors and subcontractors; interrupt global supply chains; increase impairments and associated charges to our earnings; impact our cash on hand, uses of cash and cause a decrease to our financial flexibility and liquidity. In addition, the risks associated with COVID-19 impacted, and epidemics and outbreaks of infectious diseases such as COVID-19, may in the future impact our workforce and the way we meet our business objectives, and such impact may be material.

Our business could be negatively impacted by cyberattacks targeting our computer and telecommunications systems and infrastructure or targeting those of our third-party service providers.

Our business, like other companies in the oil and gas industry, has become increasingly dependent on digital technologies, including technologies that are managed by third-party service providers or other providers of goods or services to our industry on whom we directly or indirectly rely to help us collect, host or process information. Such technologies are integrated into our business operations and used as a part of our production and distribution systems in the U.S. and abroad, including those systems used to transport production to market, to enable communications and to provide a host of other support services for our business. Accordingly, our use of the internet and other public networks for communications, services and storage, including “cloud” computing, exposes us and our users to cybersecurity risks.

There is no guarantee that our security measures will provide absolute security. We may not be able to anticipate, detect or prevent cyberattacks, particularly because the methodologies used by attackers change frequently or may not be recognized until launched, and because attackers are increasingly using techniques designed to circumvent controls and avoid detection. We and our third-party service providers may therefore be vulnerable to security events that are beyond our control, and we may be the target of cyber-attacks, as well as physical attacks, which could result in the unauthorized access to our information systems or data, the data of our customers and our employees or significant disruption to our business. These attacks could adversely impact our business operations, our revenue and profits, our ability to comply with legal, contractual and regulatory requirements, our reputation and goodwill, as well as result in legal risk, enforcement actions and litigation. Our information systems and related infrastructure have experienced attempted and actual instances of unauthorized access in the past, but 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 cyberattacks continue to evolve, we may be required to expend significant additional resources to respond to cyberattacks, to continue to modify or enhance our protective measures, or to investigate and remediate any information systems and related infrastructure security vulnerabilities. Additionally, the continuing and evolving threat of cybersecurity attacks has resulted in evolving legal and compliance matters, including increased regulatory focus on prevention, which could require us to expend significant additional resources to meet such requirements. We may also be subject to regulatory investigations or litigation relating from cybersecurity issues.

Our business may be materially adversely affected by negative publicity.

From time to time, political and public sentiment with respect to, or impacts by, the oil and gas industry may result in adverse press coverage and other adverse public statements affecting our business. In recent years, companies across all industries are facing increasing scrutiny from a variety of stakeholders, including investor advocacy groups, proxy advisory firms, certain institutional investors and lenders, investment funds and other influential investors and rating agencies, related to their ESG and sustainability practices. If we do not adapt to or comply with investor or other stakeholder expectations and standards on ESG matters as they continue to evolve, or if we are perceived to have not responded appropriately or quickly enough to growing concern for ESG and sustainability issues, regardless of whether there is a regulatory or legal requirement to do so, it could erode our stakeholder trust and thereby affect our brand and reputation.

Additionally, though we believe we can achieve our voluntary company targets and goals, any failure to realize or perception of failure to realize voluntary targets or long-term goals, including GHG emissions targets and other environmental objectives, could lead to adverse press coverage and other adverse public statements affecting Marathon Oil. Adverse press coverage and other adverse statements, whether or not driven by political or public sentiment, may also result in investigations by regulators, legislators and law enforcement officials or in legal claims.

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 United States and International operations are subject to unplanned occurrences, including blowouts, explosions, fires, loss of well control, spills, tornadoes, hurricanes and other adverse weather, tsunamis, earthquakes, volcanic eruptions or nuclear or other disasters, labor disputes and accidents. These same risks can be applied to the third parties that 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.

Any of 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 including at times 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.

Litigation by private plaintiffs or government officials or entities 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, title 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.

For instance, government entities and other groups have filed lawsuits in several states seeking to hold a wide variety of companies that produce fossil fuels liable for the alleged impacts of the GHG emissions and other alleged harm attributable to those fuels. The lawsuits allege damages as a result of global warming and the plaintiffs are seeking unspecified damages and abatement under various theories. Marathon Oil has been named as a defendant in several of these lawsuits, along with numerous other companies. Similar lawsuits may be filed in other jurisdictions. The ultimate outcome and impact to us cannot be predicted with certainty, and we could incur substantial legal costs associated with defending these and similar lawsuits in the future.

Item 1B. Unresolved Staff Comments

None.

Item 1C. Cybersecurity

Risk Management and Strategy

We have implemented cybersecurity controls and processes to identify, detect, protect against, respond to and recover from threats and cybersecurity risks. These threats and risks include, among other things: operational risks; intellectual property theft; fraud; extortion; harm to employees or customers; violation of privacy or security laws and other litigation and legal risk; and reputational risks. Our approach is informed by external cybersecurity experts and aligns to the U.S. National Institute of Standards and Technology (NIST) framework and standards. Our senior vice president, Technology and Innovation and CIO (“CIO”), who has a Bachelor of Arts in computer science and over 35 years of business experience managing large-scale system environments and the associated risks from cybersecurity threats, and developing and implementing cybersecurity policies and procedures, oversees our cybersecurity program. In addition, our cybersecurity team has a diverse range of certifications from reputable organizations in the field, such as Cybersecurity and Infrastructure Security Agency (CISA), EC-Council (ECC), and Global Information Assurance Certification (GIAC), in addition to many vendor-specific certifications. Our enterprise risk management program considers cybersecurity risks alongside other Company risks. As part of our enterprise risk management process, our enterprise risk professionals consult with Company subject matter experts to gather information necessary to identify cybersecurity risks, and evaluate their nature and severity, as well as identify mitigations and assess the impact of those mitigations on residual risk.

Our cybersecurity risk management processes include a suite of IT and security policies and procedures, tabletop simulation exercises, technical security controls, policy enforcement mechanisms, monitoring systems, tools and related services from third-party providers, and management oversight to assess, identify and manage risks from cybersecurity threats. We also leverage government partnerships, industry and government associations, third-party benchmarking, internal and third-party audit results, threat intelligence feeds and other similar resources to inform our cybersecurity processes. Our technical controls are regularly evaluated and assessed, including through internal audits, by an annual third-party assessment of our cybersecurity posture and a biannual assessment of our cybersecurity standards, processes and team. Our Information Technology Steering Committee approves the implementation of new technologies and upgrades of our current systems using a formal process that includes a rigorous third-party risk assessment. This assessment evaluates and mitigates cyber risk associated with any new technology or suppliers before they are deployed. We employ continuous monitoring technology that provides real-time updates on our suppliers’ cyber security posture, alerting us to any significant changes due to cyber events or technological shifts. In our contractual process with third party providers, we require initial and ongoing certification of their cyber security and data protection standards.

To further cybersecurity awareness among our employees and contractors, we leverage formal mandatory training and incorporate other training and educational opportunities. We also maintain a cybersecurity incident response plan to guide our detection, response to, and recovery from cybersecurity incidents, which includes processes for assessing the severity of, escalating, containing, investigating and remediating incidents, as well as complying with legal and regulatory obligations and mitigating reputational impacts. We test our cybersecurity incident response and disaster recovery plans through an annual, scenario-based tabletop exercise. We also have processes and technologies to provide redundant computing and backup operations should a cyber incident occur that requires a full or partial data center recovery.

Furthermore, in 2023, we engaged a third party to conduct a Cyber Risk Quantification assessment. This assessment focused on estimating the likelihood and potential financial impact of a widespread ransomware attack within our network. It involved a thorough evaluation of both our current and planned cybersecurity capabilities.

Governance

Our Audit and Finance Committee, comprised fully of independent directors, is responsible for oversight of cybersecurity risk in connection with its oversight of the Company’s enterprise risk management process.

Marathon Oil's senior leadership and the Audit and Finance Committee of our Board receive regular cybersecurity updates, with formal reporting to the Audit and Finance Committee at least annually. Our CIO regularly provides reports to senior leadership and the Audit and Finance Committee regarding our ongoing assessment of cybersecurity threats and risks, data security programs designed to prevent and detect threats, attacks, incursions and breaches, as well as management, mitigation and remediation of potential, and any actual, cybersecurity and information technology risks and breaches. In addition, the Audit and Finance Committee and management review reports from internal audit regarding evaluation of our information technology department on a regular basis.

To date, the Company has not experienced any material cybersecurity incidents and we are not aware of any cybersecurity risks that are reasonably likely to materially affect the Company. For additional information about the Company's cybersecurity risks, please see **Item 1A. Risk Factors**.

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 business or operations.

See Item 8. Financial Statements and Supplementary Data – **Note 24** to the consolidated financial statements for a description of such legal and administrative proceedings.

Environmental Proceedings

The following is a summary of certain proceedings involving us that were pending or contemplated as of December 31, 2023, under federal and state environmental laws.

Government entities have filed lawsuits in several states seeking to hold a wide variety of companies that produce fossil fuels liable for the alleged impacts of the GHG emissions and other alleged harm attributable to those fuels. The lawsuits allege damages as a result of climate change and the plaintiffs are seeking unspecified damages and abatement under various theories. Marathon Oil has been named as a defendant in several of these lawsuits, along with numerous other companies. Similar lawsuits may be filed in other jurisdictions. While the ultimate outcome and impact to us cannot be predicted with certainty, we believe that the claims made against us will not have a material adverse effect on our consolidated financial position, results of operations or cash flow.

As of December 31, 2023, 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.

We have received Notices of Violation (“NOVs”)’s from the EPA related to alleged violations of the Clean Air Act with respect to our operations on the Ford Berthold Indian Reservation between 2015 and 2019. We continue to actively negotiate a draft consent decree with the EPA and Department of Justice. The resolution of the enforcement action will likely include monetary sanctions, for which we maintain an accrual of our estimate, and implementation of both environmental mitigation projects and injunctive terms, which would increase both our development costs and operating costs. Through the date of this filing, we are unable to estimate the full financial impact associated with this matter, as there exists substantial uncertainty as to the ultimate result of this matter and it is reasonably possible the result could be materially different from our expectations and our accrual.

We received NOVs from the EPA relating to alleged Clean Air Act violations following flyovers conducted in 2020 and 2022 over certain of our oil and gas facilities in New Mexico. The notices involve alleged emission and permitting violations. We have initiated discussions with the EPA to resolve these matters. As we are still investigating these allegations, we are unable to estimate the potential loss associated with this matter, however, it is reasonably possible that the resolution may result in a fine or penalty in excess of \$300,000.

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”) and is traded under the trading symbol ‘MRO’. As of January 31, 2024, there were 23,837 registered holders of Marathon Oil common stock.

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 of Directors will rely on our consolidated financial statements. Dividends on Marathon Oil common stock are limited to our legally available funds.

Securities Authorized for Issuance Under Equity Compensation Plans – See “Securities Authorized for Issuance Under Equity Compensation Plans” under **Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters** of this Form 10-K.

Issuer Purchases of Equity Securities – The following table provides information about purchases by Marathon Oil, during the quarter ended December 31, 2023, of equity securities that are registered by Marathon Oil pursuant to Section 12 of the Securities Exchange Act of 1934. As of December 31, 2023, we have approximately \$2.3 billion of authorization remaining under the share repurchase program.

Period	Total Number of Shares Purchased ^(a)	Average Price Paid per Share ^(b)	Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs ^(c)	Approximate Dollar Value of Shares that May Yet Be Purchased Under the Plans or Programs ^{(b)(c)}
10/01/2023 - 10/31/2023	5,138,870	\$ 26.97	5,138,870	\$ 1,211,419,807
11/01/2023 - 11/30/2023	4,351,229	25.92	4,351,229	2,406,100,240
12/01/2023 - 12/31/2023	4,070,278	24.57	4,070,278	2,306,100,537
Total	13,560,377	\$ 25.91	13,560,377	

^(a) No shares of restricted stock were delivered by employees to Marathon Oil, upon vesting, to satisfy tax withholding requirements.

^(b) Excludes 1% excise tax on share repurchases.

^(c) In January 2006, we announced a \$2 billion share repurchase program. Our Board of Directors subsequently increased the authorization for repurchases under the program on multiple occasions, as detailed below, resulting in a cumulative authorization of \$13.1 billion. This total authorized amount encompasses the entire lifecycle of the program, from 2006 - 2023, which includes share authorization approvals made prior to and subsequent of the spin-off of Marathon Petroleum Corporation in 2011.

The individual increases in the authorized share repurchase program were: \$500 million in January 2007; \$500 million in May 2007; \$2 billion in July 2007; \$1.2 billion in December 2013; \$950 million in July 2019; \$1.4 billion in November 2021; \$1.4 billion in May 2022; \$1.8 billion in November 2022; \$1.3 billion in November 2023.

As of December 31, 2023, we had repurchased 407 million common shares at a cost of approximately \$10.8 billion, excluding excise tax, transaction fees, and commissions. Purchases under the program are made at our discretion and may be in either open market transactions, including block purchases, or in privately negotiated transactions using cash on hand, cash generated from operations or proceeds from potential asset sales. This program may be changed based upon our financial condition or changes in market conditions and is subject to termination by the Board of Directors prior to completion. Shares repurchased as of December 31, 2023 were held as treasury stock.

Item 6. [Reserved]

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

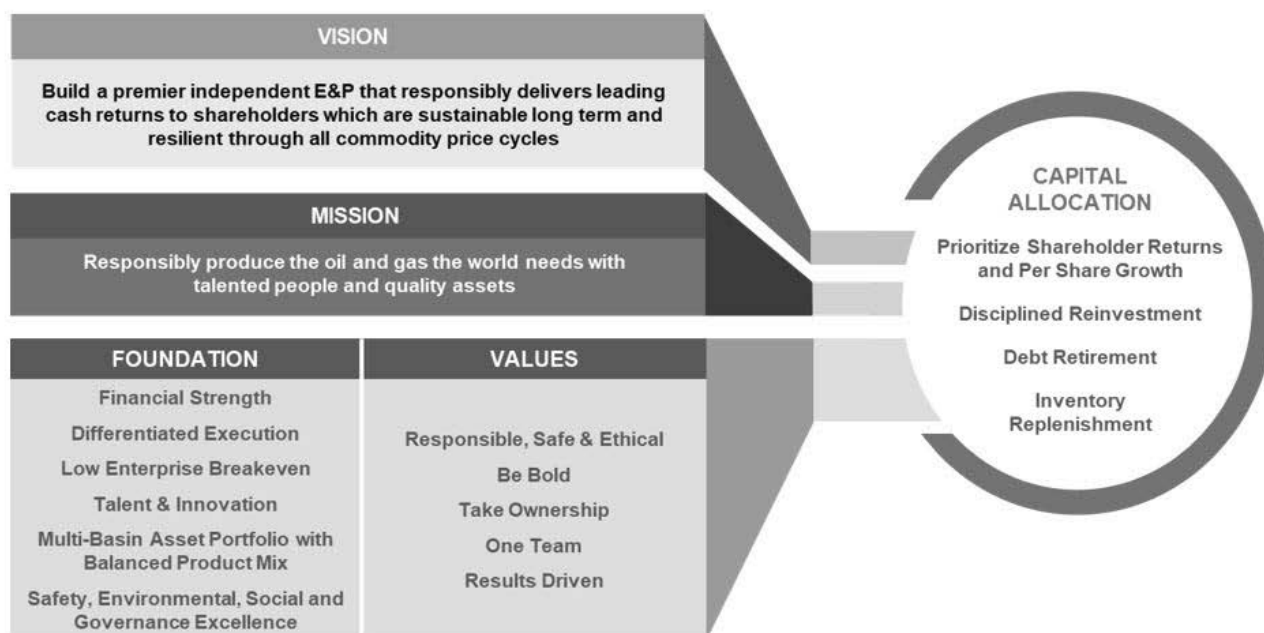
Management’s Discussion and Analysis provides a narrative on the Company’s results of operations, financial condition and liquidity and capital resources on a historical basis and outlines the factors that have affected recent earnings, as well as those factors that are reasonably likely to affect future earnings. The following discussion and analysis should be read in conjunction with the information under **Item 8. Financial Statements and Supplementary Data** of this report and 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 two reportable operating segments are organized by geographic location and managed according to the nature of the products and services offered.

- United States – explores for, produces and markets crude oil and condensate, NGLs and natural gas in the United States; and
- International – explores for, produces and markets crude oil and condensate, NGLs and natural gas outside of the United States as well as produces and markets products manufactured from natural gas, such as LNG and methanol, in E.G.

Executive Overview

We are an independent exploration and production company, focused on U.S. resource plays: Eagle Ford in Texas, Bakken in North Dakota, STACK and SCOOP in Oklahoma and Permian in New Mexico and Texas. Our U.S. assets are complemented by our international operations in E.G. As shown below, our Vision and Mission are supported by our Foundation and Values. We expect to achieve our Vision by adherence to a capital allocation framework that limits our capital expenditures relative to our expected cash flow from operations. We allocate capital to prioritize shareholder returns and per share growth, exercise discipline in reinvestment, retire outstanding debt and replenish inventory.



In December 2022, we closed on a transaction to acquire approximately 130,000 net proved and unproved acres, with an average 97% working interest, in the Eagle Ford resource play from Ensign, for cash consideration of \$3.0 billion.

Key 2023 highlights include:

Prioritized return of capital to investors and debt reduction

- During 2023, we generated \$4.1 billion in cash from operations, which more than funded our capital program within our budget of \$1.9 to \$2.0 billion while meeting our production targets. Using cash from operations and cash on hand, we prioritized shareholder returns and per share growth and reduced our long-term debt, consistent with our disciplined capital allocation framework.
- We repurchased approximately \$1.5 billion of shares through our share repurchase program, reducing our outstanding share count by 9% during the year. In addition, our Board increased our remaining share repurchase authorization to \$2.5 billion in November 2023.
- We repaid \$501 million of long-term debt, including \$300 million of outstanding borrowings on our Term Loan Facility during the fourth quarter of 2023, \$131 million 8.125% Senior Notes in July 2023 and \$70 million 8.5% Senior Notes in March 2023.
- We increased dividends to shareholders, with dividends paid of \$251 million, or \$0.41 per share, during 2023, compared to dividends paid of \$0.32 per share during 2022.
- As of December 31, 2023, we have \$155 million in cash and \$2.3 billion of total liquidity.
- All three primary credit rating agencies continue to rate us as investment grade.

Financial results

- Our net income was \$1.6 billion in 2023 as compared to net income of \$3.6 billion in 2022. Included in our financial results:
 - Revenues from contracts with customers decreased \$1.1 billion compared to 2022, primarily as a result of lower realized commodity prices, partially offset by higher volumes, in 2023.
 - Net sales volumes in the U.S. segment increased 25% compared to 2022, primarily driven by increased production from the acreage acquired from Ensign.
 - The increase in net sales volumes resulted in higher depreciation, depletion and amortization expense of \$458 million as compared to 2022.
 - Our provision for income taxes increased by \$190 million compared to 2022, primarily as a result of a non-cash tax benefit of \$685 million from the partial release of a valuation allowance on certain U.S. and state deferred tax assets recorded in the prior year, partially offset by lower income before taxes in 2023. See [Note 7](#) to the consolidated financial statements for discussion of the increase in income taxes.
- During the third quarter of 2023, we announced the signing of a 5-year firm LNG sales agreement for a portion of our equity gas from the Alba Field liquefied at EG LNG. The contract is effective January 1, 2024, and features a pricing structure linked to the Dutch TTF index, providing us with significant incremental exposure to the European LNG market.

Outlook

In February 2024, we announced a 2024 capital budget of \$1.9 billion to \$2.1 billion that prioritizes free cash flow generation and meaningful return of capital to shareholders, consistent with our disciplined capital allocation framework. The midpoint of our oil production guidance for 2024 is 190 mbopd.

Operations

The following table presents a summary of our sales volumes for each of our segments. Refer to the [Consolidated Results of Operations](#) section for a price-volume analysis for each of the segments.

Net Sales Volumes	2023	Increase (Decrease)	2022	Increase (Decrease)	2021
United States (<i>mboed</i>)	355	25 %	284	(1)%	286
International (<i>mboed</i>)	50	(15)%	59	(3)%	61
Total (<i>mboed</i>)	405	18 %	343	(1)%	347

United States

Effective in 2023, the Texas Delaware oil play, which was previously included within Other United States as an exploration property, was integrated into the Permian resource play. The increase in net sales volumes in our U.S. segment compared to the same period in the prior year was primarily a result of our acquisition of the Eagle Ford assets of Ensign in December 2022.

The following tables provide additional details regarding net sales volumes, sales mix and operational drilling activity for our significant operations within this segment:

Net Sales Volumes	2023	Increase (Decrease)	2022	Increase (Decrease)	2021
Equivalent Barrels (<i>mboed</i>)					
Eagle Ford	151	76 %	86	(3)%	89
Bakken	111	— %	111	(1)%	112
Oklahoma	50	(4)%	52	(4)%	54
Permian	41	64 %	25	9 %	23
Other United States	2	(80)%	10	25 %	8
Total United States	355	25 %	284	(1)%	286

Sales Mix - U.S. Resource Plays - 2023	Eagle Ford	Bakken	Oklahoma	Permian	Total
Crude oil and condensate	51%	64%	20%	54%	51%
NGLs	25%	22%	31%	23%	24%
Natural gas	24%	14%	49%	23%	25%

Drilling Activity - U.S. Resource Plays ^(a)	2023	2022	2021
Gross Operated			
<i>Eagle Ford:</i>			
Wells drilled to total depth	105	105	91
Wells brought to sales	127	111	117
<i>Bakken:</i>			
Wells drilled to total depth	87	50	72
Wells brought to sales	88	53	71
<i>Oklahoma:</i>			
Wells drilled to total depth	15	18	—
Wells brought to sales	15	33	8
<i>Permian:</i>			
Wells drilled to total depth	29	21	—
Wells brought to sales	34	19	7

^(a) Includes drilling activity operated under joint development agreements where we have a working interest in the well.

International

Net sales volumes in the segment were lower during the year ended December 31, 2023, primarily due to natural decline. The following table provides details regarding net sales volumes for our operations within this segment:

Net Sales Volumes	2023	Increase (Decrease)	2022	Increase (Decrease)	2021
Equivalent Barrels (<i>mboed</i>)					
E.G.	50	(15)%	59	(3)%	61
Equity Method Investees					
LNG (<i>mtd</i>)	1,790	(30)%	2,565	(13)%	2,941
Methanol (<i>mtd</i>)	1,252	18 %	1,058	(7)%	1,140
Condensate and LPG (<i>boed</i>)	7,344	(8)%	7,969	(7)%	8,560

Market Conditions

Commodity prices are the most significant factor impacting our revenues, profitability, operating cash flows, the amount of capital we invest in our business, redemption of our debt, payment of dividends and funding of share repurchases. Commodity prices experienced significant volatility in 2022 after the Russia/Ukraine conflict began and this has continued into 2023. Recent events in the Middle East have added further volatility to energy prices and the outlook for that region remains extremely uncertain. Economic headwinds should diminish moving forward as inflation appears to have peaked and interest rates should fall over the course of 2024. However, the tailwind to annual energy demand growth from the post-COVID recovery has likely run its course and annual growth should be more in line with the long-term trend moving forward. Ongoing OPEC+ petroleum supply limitations and economic sanctions involving producer countries continue to add uncertainty to the price outlook. We expect commodity price volatility to continue given the complex global dynamics of supply and demand that exist in the market. See **Item 1A. Risk Factors** and **Item 7. Management’s Discussion and Analysis of Financial Condition – Critical Accounting Estimates** for further discussion on how volatility in commodity prices could impact us.

United States

The following table presents our average price realizations and the related benchmarks for crude oil and condensate, NGLs and natural gas for 2023, 2022 and 2021:

	2023	Increase (Decrease)	2022	Increase (Decrease)	2021
Average Price Realizations^(a)					
Crude oil and condensate (<i>per bbl</i>) ^(b)	\$ 76.42	(20)%	\$ 95.58	43 %	\$ 66.88
NGLs (<i>per bbl</i>) ^(c)	21.20	(39)%	34.55	20 %	28.89
Natural gas (<i>per mcf</i>) ^(d)	2.36	(61)%	6.11	34 %	4.57
Benchmarks					
WTI crude oil average of daily prices (<i>per bbl</i>)	\$ 77.60	(18)%	\$ 94.33	38 %	\$ 68.11
Magellan East Houston (“MEH”) crude oil average of daily prices (<i>per bbl</i>)	79.22	(19)%	97.74	41 %	69.25
Mont Belvieu NGLs (<i>per bbl</i>) ^(e)	22.82	(36)%	35.78	23 %	29.17
Henry Hub natural gas settlement date average (<i>per mmbtu</i>)	2.74	(59)%	6.64	73 %	3.84

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

^(b) Inclusion of realized gains (losses) on crude oil derivative instruments would have had no effect on average price realizations for 2023, while decreasing average price realizations by \$1.90 per bbl and \$4.76 per bbl, for 2022 and 2021, respectively.

^(c) Inclusion of realized gains (losses) on NGL derivative instruments would have decreased average price realizations by \$1.86 per bbl for 2021. We did not use NGL derivative instruments in 2022 and 2023.

^(d) Inclusion of realized gains (losses) on natural gas derivative instruments would have increased average price realizations by \$0.15 per mcf for 2023, while decreasing average price realizations by \$0.16 per mcf and \$0.56 per mcf for 2022 and 2021 respectively.

^(e) Bloomberg Finance LLP: Y-grade Mix NGL of 55% ethane, 25% propane, 5% butane, 8% isobutane and 7% natural gasoline.

Crude oil and condensate – Price realizations may differ from benchmarks due to the quality and location of the product.

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

Natural gas – A significant portion of our volumes are sold at bid-week prices, or first-of-month indices relative to our producing areas.

International (E.G.)

The following table presents our average price realizations and the related benchmark for crude oil for 2023, 2022 and 2021:

	2023	Increase (Decrease)	2022	Increase (Decrease)	2021
Average Price Realizations					
Crude oil and condensate (<i>per bbl</i>)	\$ 57.50	(16)%	\$ 68.67	20 %	\$ 57.46
NGLs (<i>per bbl</i>)	1.00	— %	1.00	— %	1.00
Natural gas (<i>per mcf</i>)	0.24	— %	0.24	— %	0.24
Benchmark					
Brent (Europe) crude oil (<i>per bbl</i>) ^(a)	\$ 82.47	(18)%	\$ 100.78	43 %	\$ 70.68

^(a) Average of monthly prices obtained from the United States Energy Information Agency website.

Crude oil and condensate – Alba field liquids production is primarily condensate. We generally sell our share of condensate in relation to the Brent crude benchmark. Alba Plant LLC processes the rich hydrocarbon gas which is supplied by the Alba field under a fixed-price long term contract. Alba Plant LLC extracts NGLs and condensate which is then sold by Alba Plant LLC at market prices, with our share of the revenue reflected in income from equity method investments on the consolidated statements of income. Alba Plant LLC delivers the processed dry natural gas to the Alba Unit Parties for distribution to AMPCO and EG LNG.

NGLs – Wet gas is sold to Alba Plant LLC at a fixed-price long term contract resulting in realized prices not tracking market price. Alba Plant LLC extracts and keeps NGLs, which are sold at market price, with our share of income from Alba Plant LLC being reflected in the income from equity method investments on the consolidated statements of income.

Natural gas – Prior to 2024, dry natural gas, processed by Alba Plant LLC on behalf of the Alba Unit Parties, was sold by the Alba field to our equity investments EG LNG and AMPCO at fixed-price contracts resulting in realized prices not tracking market price. EG LNG sold LNG on a market-based contract and AMPCO markets methanol at market prices. The gas sales contract between Alba Unit and EG LNG expired on December 31, 2023. The gas sales contract with AMPCO expires in 2026.

In March 2023, we announced the signing of a Heads of Agreement (“HOA”) to progress the development of the E.G. Regional Gas Mega Hub. In October 2023, we announced the signing of a 5-year firm LNG sales agreement for a portion of our Alba gas liquefied at EG LNG. The contract is effective January 1, 2024, and features a pricing structure linked to the Dutch TTF index, providing us with significant incremental exposure to the European LNG market.

In addition to processing Alba Unit gas, Alba Plant LLC and EG LNG process third-party gas from the Alen field under a combination of a tolling and a market linked profit-sharing arrangement, the benefits of which are included in our respective share of income from equity method investees. This profit-sharing arrangement provides exposure to global LNG market prices.

Consolidated Results of Operations: 2023 compared to 2022

Revenues from contracts with customers are presented by segment in the table below:

(In millions)	Year Ended December 31,	
	2023	2022
Revenues from contracts with customers		
United States	\$ 6,199	\$ 7,268
International	208	272
Segment revenues from contracts with customers	\$ 6,407	\$ 7,540

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.

(In millions)	Year Ended December 31, 2022	Increase (Decrease) Related to		Year Ended December 31, 2023
		Price Realizations	Net Sales Volumes	
United States Price/Volume Analysis				
Crude oil and condensate	\$ 5,552	\$ (1,269)	\$ 779	\$ 5,062
NGLs	814	(421)	275	668
Natural gas	809	(713)	353	449
Other sales	93			20
Total	\$ 7,268			\$ 6,199
International Price/Volume Analysis				
Crude oil and condensate	\$ 244	\$ (36)	\$ (25)	\$ 183
NGLs	2	—	—	2
Natural gas	22	—	(3)	19
Other sales	4			4
Total	\$ 272			\$ 208

Net gain (loss) on commodity derivatives in 2023 was a net gain of \$42 million, compared to a net loss of \$114 million in 2022. In both years, we had commodity derivative contracts which settled against the NYMEX WTI and Henry Hub indexes. We record commodity derivative gains/losses as the index pricing and forward curves change each period. See **Note 12** to the consolidated financial statements for further information.

Income from equity method investments decreased \$428 million in 2023 from 2022, primarily due to lower prices realized by our equity method investees in 2023.

Net gain (loss) on disposal of assets in 2023 was a net gain of \$17 million, compared to a net loss of \$38 million in 2022. In 2023, we realized a gain of \$11 million of contingent consideration related to a previously disposed asset in the Gulf of Mexico. During 2022, we incurred \$39 million in losses resulting from exchanges of unproved acreage in the Permian.

Production expenses increased \$138 million during 2023 from 2022, primarily as a result of higher volumes from our acquisition of the Eagle Ford assets of Ensign in December 2022 and inflationary pressures when compared to 2022. In addition, in our International segment, production expenses were higher due to the triennial turnaround in April 2023.

The following table provides production expense and production expense rates for each segment:

(In millions; rate in \$ per boe)	Expense			Rate		
	2023	2022	Increase (Decrease)	2023	2022	Increase (Decrease)
Production Expense and Rate						
United States	\$ 753	\$ 625	20 %	\$ 5.81	\$ 6.03	(4)%
International	\$ 75	\$ 65	15 %	\$ 4.11	\$ 3.04	35 %

Shipping, handling and other operating expenses decreased \$44 million in 2023 when compared to 2022, primarily due to a decrease in purchases of commodity volumes for resale to satisfy transportation commitments, partially offset by an increase in shipping and handling costs due to increased volumes from our acquisition of the Eagle Ford assets of Ensign in December 2022.

Exploration expenses include unproved property impairments, dry well costs, geological and geophysical and other costs. The \$51 million decrease in exploration expenses in 2023 compared to 2022 was primarily driven by lower impairments of unproved property leases and lower dry well costs in 2023 when compared to 2022, primarily due to dry well costs and unproved property impairments in Louisiana Austin Chalk in 2022. See [Note 6](#) and [Note 10](#) to the consolidated financial statements for further detail.

The following table summarizes the components of exploration expenses:

<i>(In millions)</i>	Year Ended December 31,		
	2023	2022	Increase (Decrease)
Exploration Expenses			
Unproved property impairments	\$ 39	\$ 65	(40)%
Dry well costs	14	36	(61)%
Geological and geophysical	1	1	— %
Other	5	8	(38)%
Total exploration expenses	\$ 59	\$ 110	(46)%

Depreciation, depletion and amortization increased \$458 million in 2023 from 2022, primarily as a result of higher production volumes.

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 following table provides DD&A expense and DD&A expense rates for each segment:

<i>(In millions; rate in \$ per boe)</i>	Increase (Decrease)			Increase (Decrease)		
	2023	2022	2023	2022	2023	2022
DD&A Expense and Rate	Expense			Rate		
United States	\$ 2,156	\$ 1,675	29 %	\$ 16.66	\$ 16.16	3 %
International	\$ 44	\$ 60	(27)%	\$ 2.43	\$ 2.82	(14)%

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 revenue and sales volumes. Taxes other than income decreased \$121 million in 2023 from 2022 primarily due to lower sales revenue in the U.S. segment in 2023, as well as a nonrecurring Eagle Ford severance tax refund of \$47 million related to prior years during the second quarter of 2023.

Net interest and other increased \$164 million in 2023 primarily as a result of increased interest expense associated with borrowings on our Term Loan Facility and Revolving Credit Facility. See [Note 14](#) and [Note 23](#) to the consolidated financial statements for further information.

Provision for income taxes reflects an effective rate of 19% in 2023 as compared to 4% in 2022. The provision for income taxes in 2022 included a non-cash tax benefit of \$685 million from the partial release of a valuation allowance on certain U.S. and state deferred tax assets recorded in the prior year, which was fully offset by the provision related to income earned by our operations in 2022. See [Note 7](#) to the consolidated financial statements for further detail.

Segment Results: 2023 compared to 2022

Segment Income

Segment income represents income that excludes certain items not allocated to our operating segments, net of income taxes. See [Note 6](#) to the consolidated financial statements for further details regarding items not allocated to the operating segments.

The following table reconciles segment income to net income:

<i>(In millions)</i>	Year Ended December 31,	
	2023	2022
United States	\$ 1,763	\$ 2,740
International	232	585
Segment income	1,995	3,325
Items not allocated to segments, net of income taxes	(441)	287
Net income	\$ 1,554	\$ 3,612

United States segment income in 2023 was \$1.8 billion of income versus \$2.7 billion of income in 2022. The decrease in income was primarily due to lower price realizations, partially offset by an increase in net sales volumes, as well as higher depreciation and amortization expense and lower income tax expense in 2023.

International segment income in 2023 was \$232 million of income versus \$585 million of income in 2022. The decrease was primarily due to lower prices realized and lower net sales volumes by our equity method investees.

Items not allocated to segments, net of income taxes in 2023 was a loss of \$441 million versus income of \$287 million in 2022. The change from income to loss was primarily due to the partial release of the valuation allowance on certain U.S. and state deferred tax assets resulting in a non-cash deferred tax benefit of \$685 million in 2022. In addition, our interest expense increased as a result of outstanding borrowings on our Term Loan Facility and Revolving Credit Facility.

Consolidated Results of Operations: 2022 compared to 2021

A detailed discussion of the year-over-year changes from the year ended December 31, 2022 to December 31, 2021 can be found in the Management's Discussion and Analysis section of our Annual Report on Form 10-K for the year ended December 31, 2022 and is available via the SEC's website at www.sec.gov and on our website at www.marathonoil.com.

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

Commodity prices are the most significant factor impacting our revenues, profitability, operating cash flows, the amount of capital we invest in our business, principal debt repayments, payment of dividends and funding of share repurchases. We generated positive cash flow from operations during 2023. We continue to expect volatility in commodity prices which could impact the amount of cash flow from operations we generate.

As previously discussed in the Outlook section, our capital budget for 2024 is \$1.9 billion to \$2.1 billion. We believe our current liquidity level, cash flow from operations and ability to access the capital markets provides us with the flexibility to fund our business across a wide range of commodity price environments.

Cash Flows

The following table presents sources and uses of cash and cash equivalents for 2023 and 2022:

<i>(In millions)</i>	Year Ended December 31,	
	2023	2022
Sources of cash and cash equivalents		
Net cash provided by operating activities	\$ 4,087	\$ 5,428
Proceeds from revolving credit facility	1,248	450
Proceeds from commercial paper borrowings, net	450	—
Borrowings ^(a)	200	1,500
Equity method investments - return of capital	61	12
Other	3	23
Total sources of cash and cash equivalents	\$ 6,049	\$ 7,413
Uses of cash and cash equivalents		
Capital expenditures	\$ (2,033)	\$ (1,480)
Change in capital accrual	(25)	30
Repayments of revolving credit facility	(1,698)	—
Shares repurchased under buyback programs	(1,473)	(2,754)
Debt repayments ^(a)	(701)	(35)
Dividends paid	(251)	(220)
Withholding tax on stock-based incentive awards	(31)	(22)
Acquisitions, net of cash acquired	(12)	(3,177)
Other	(4)	(1)
Total uses of cash and cash equivalents	\$ (6,228)	\$ (7,659)

^(a) Includes repayment and new borrowing associated with April 2023 remarketing to investors of \$200 million sub-series 2017A-1 bonds. See [Note 14](#) to the consolidated financial statements for further information.

Sources of cash and cash equivalents

Cash flows generated from operating activities in 2023 were 25% lower compared to 2022, primarily as a result of lower realized commodity prices, partially offset by higher volumes resulting from our acquisition of the Eagle Ford assets of Ensign in December 2022.

Refer to discussion below of our credit arrangements and borrowings during 2023.

Uses of cash and cash equivalents

During the year ended 2023, we repurchased 58 million shares of our common stock pursuant to the share repurchase program at a cost of \$1.5 billion, paid dividends of \$251 million, repaid the \$70 million 8.5% and \$131 million 8.125% Senior Notes, and repaid \$300 million of outstanding borrowings under our Term Loan Facility. Additionally, we utilized commercial paper borrowings to fully repay our \$450 million outstanding borrowings against our \$2.6 billion unsecured Revolving Credit Facility. See [Note 14](#) to the consolidated financial statements for further information.

The following table shows capital expenditures by segment:

<i>(In millions)</i>	Year Ended December 31,	
	2023	2022
United States	\$ 2,010	\$ 1,463
International	7	2
Not allocated to segments	16	15
Total capital expenditures	\$ 2,033	\$ 1,480

The increase in our capital expenditures for the U.S. segment in 2023 compared to 2022 was largely driven by increased investment and drilling related to the Eagle Ford acreage we acquired from Ensign in December 2022. Additionally, inflationary pressures related to oil field services, labor, drilling materials and equipment in 2023, compared to 2022, contributed to the increase in capital expenditures.

Liquidity and Capital Resources

Capital Resources and Available Liquidity

Our main sources of liquidity are cash and cash equivalents, internally generated cash flow from operations, capital market transactions, our Revolving Credit Facility and our commercial paper program. At December 31, 2023, we had approximately \$2.3 billion of liquidity consisting of \$155 million in cash and cash equivalents and \$2.1 billion available under our Revolving Credit Facility.

Pursuant to our commercial paper program, we may issue unsecured notes in a maximum aggregate face amount of \$2.5 billion outstanding at any time, with maturities up to 365 days from the date of issuance. Our \$2.5 billion commercial paper program is backed by our \$2.6 billion Revolving Credit Facility. At December 31, 2023, we have \$450 million in commercial paper outstanding.

Our working capital requirements are supported by our cash and cash equivalents, our Revolving Credit Facility and our commercial paper program. We may issue commercial paper, draw on our 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 program. 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, defined benefit plan contributions, repayment of debt maturities, dividends and other amounts that may ultimately be paid in connection with contingencies. See Item 8. Financial Statements and Supplementary Data – [Note 24](#) to the consolidated financial statements for further discussion of how our commitments and contingencies could affect our available liquidity. General economic conditions, commodity prices and financial, business and other factors could affect our operations and our ability to access the capital markets.

We maintain investment grade ratings at all three primary credit rating agencies. A downgrade in our credit ratings could increase our future cost of financing or limit our ability to access capital and could result in additional credit support requirements. 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. See [Item 1A. Risk Factors](#) for a discussion of how a downgrade in our credit ratings could affect us.

We may incur additional debt to fund our working capital requirements, 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.

Credit Arrangements and Borrowing Developments

In November 2022, we entered into a two-year \$1.5 billion Term Loan Facility and borrowed the full amount thereunder in December 2022. The Term Loan Facility can be prepaid without penalty. During the fourth quarter of 2023, we repaid \$300 million of outstanding borrowings. As of December 31, 2023, we had \$1.2 billion in borrowings remaining under our Term Loan Facility.

In September 2023, we increased our \$2.5 billion Revolving Credit Facility by \$61 million to a total of \$2.6 billion. During the third quarter of 2023, we utilized commercial paper borrowings to fully repay the \$450 million of outstanding borrowings against our \$2.6 billion unsecured Revolving Credit Facility.

Both our Term Loan Facility and Revolving Credit Facility include a covenant requiring that our total debt to total capitalization ratio not exceed 65% as of the last day of the fiscal quarter. Our total debt-to-capital ratio was 25% at December 31, 2023. See Item 8. Financial Statements and Supplementary Data – [Note 14](#) for further information related to the Term Loan Facility and Revolving Credit Facility.

In April 2023, we closed a \$200 million remarketing to investors of sub-series 2017A-1 bonds that are part of the \$1 billion St. John the Baptist Parish, State of Louisiana revenue refunding bonds Series 2017. The bonds are subject to an interest rate of 4.05% and a mandatory purchase date of July 1, 2026.

Other Sources of Liquidity

We have an effective universal shelf registration statement filed with the SEC pursuant to which we, as a “well-known seasoned issuer” for purposes of SEC rules, subject to market conditions, are permitted to issue and sell an indeterminate amount of various types of debt, equity securities and other capital instruments, if and when necessary or perceived by us to be opportune, in one or more public offerings.

Capital Requirements

Our material cash requirements include the following contractual and other potential or expected obligations:

Capital Spending

Our approved capital budget for 2024 is \$1.9 billion to \$2.1 billion. Additional details were previously discussed in **Outlook**.

Debt

As of December 31, 2023, we had \$5.0 billion of total long-term debt outstanding. In addition, we had \$450 million of commercial paper borrowings outstanding with maturities less than 30 days. See Item 8. Financial Statements and Supplementary Data – **Note 14** for a listing of our long-term debt maturities.

Long-term debt due within one year consists of \$1.2 billion in borrowings remaining under our \$1.5 billion Term Loan Facility and \$400 million of bonds consisting of \$200 million 2.10% of sub-series 2017A-2 bonds and \$200 million 2.125% of sub-series 2017B-1 bonds, both of which feature a mandatory put on July 1, 2024. The Term Loan Facility matures on December 27, 2024, and can be prepaid without penalty. During the fourth quarter of 2023, we repaid \$300 million of the Term Loan Facility using cash from operations. Options to address the remaining outstanding borrowings on the Term Loan Facility include paying it off using cash from operations, refinancing it in the capital markets or a combination thereof. In addition, we have the option to remarket to investors the \$200 million 2.10% of sub-series 2017A-2 bonds and the \$200 million 2.125% of sub-series 2017B-1 bonds that are part of the \$1 billion St. John the Baptist Parish, State of Louisiana revenue refunding bonds Series 2017.

Anticipated cash payments for interest related to our fixed-rate debt in future periods are \$181 million for 2024, \$345 million for 2025-2026, \$270 million for 2027-2028 and \$1 billion for the remaining years for a total of \$1.8 billion.

Assuming interest rates in effect at December 31, 2023, and repayments at scheduled maturities, anticipated cash payments for interest related to our floating-rate Term Loan Facility would be \$86 million in 2024. In addition, as of December 31, 2023, we had \$450 million of outstanding commercial paper maturing at various dates with a weighted average interest rate of 6.10%. Future interest payments on our commercial paper program will vary based on the amounts outstanding and interest rates in effect upon issuance.

Share Repurchase Program

Effective November 1, 2023, our Board of Directors increased our remaining share repurchase program authorization to \$2.5 billion. The total remaining share repurchase authorization was approximately \$2.3 billion at December 31, 2023.

Leases

For future lease obligations, see Item 8. Financial Statements and Supplementary Data – **Note 18** to the consolidated financial statements.

Dividends

On January 31, 2024, our Board of Directors approved a dividend of \$0.11 per share payable on March 11, 2024, to shareholders of record on February 21, 2024.

Pension and Postretirement Plans

Estimated cash payments for our pension and other postretirement benefits plans in future periods are \$36 million for 2024, \$64 million for 2025-2026, \$59 million for 2027-2028 and \$123 million for the remaining years for a total of \$282 million.

Income Taxes

As described in Item 8. Financial Statements and Supplementary Data – **Note 7** to the consolidated financial statements, the IRA was signed into law during 2022. Under current law and guidance, we have not been subject to the corporate book minimum tax in 2023. We anticipate that the corporate book minimum tax will apply in 2024 and estimated tax payments will be made during the year.

Other Cash Obligations

The table below provides aggregated information on our consolidated obligations to make future payments under existing contracts as of December 31, 2023:

<i>(In millions)</i>	Total	2024	2025-2026	2027-2028	Later Years
Purchase obligations:					
Oil and gas activities	\$ 18	\$ 9	\$ 2	\$ 2	\$ 5
Service and materials contracts ^(a)	41	34	7	—	—
Transportation and marketing commitments ^(b)	1,193	249	447	323	174
Other	46	44	2	—	—
Total purchase obligations	1,298	336	458	325	179
Other liabilities reported in the consolidated balance sheet	109	22	30	3	54
Total other contractual cash obligations ^(c)	\$ 1,407	\$ 358	\$ 488	\$ 328	\$ 233

^(a) Includes contracts to purchase services such as utilities, supplies and various other maintenance and operating services.

^(b) These obligations consist of firm capacity on third-party pipelines, minimum volume throughput and firm purchase commitments.

^(c) This table does not include the estimated discounted liability for dismantlement, abandonment and restoration costs of oil and gas properties of \$340 million. See Item 8. Financial Statements and Supplementary Data – [Note 11](#) to the consolidated financial statements.

Transactions with Related Parties

Offshore E.G., we own a 64% working interest in the Alba Unit. Onshore E.G., we own a 52% interest in an LPG processing plant, a 56% interest in an LNG production facility (EG LNG) and a 45% interest in a methanol production plant, each through equity method investees. We sell our natural gas from the Alba Unit to these equity method investees as the feedstock for their production processes.

In October 2023, we announced the signing of a 5-year firm LNG sales agreement for a portion of our Alba gas liquefied at EG LNG. The contract is effective January 1, 2024, and features a pricing structure linked to the Dutch TTF index. While the purchaser is an unrelated third party, we will incur new related party expenses as compensation to EG LNG for liquefaction, storage and product handling.

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. We had no material off-balance sheet arrangements for December 31, 2023.

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

We have incurred and will continue to incur 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 offset by 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. 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.

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 on both state and federal levels. 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, litigation and contingencies that impact us, or could impact us, see [Item 1. Business – Environmental, Health and Safety Matters](#), [Item 1A. Risk Factors](#), [Item 3. Legal Proceedings](#) and [Item 8. Financial Statements and Supplementary Data — Note 24](#).

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 and natural gas 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 petroleum engineers and geoscientists for crude oil and condensate, NGLs and natural gas, 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, subsurface interpretation and future plans to develop acreage. Methodologies used in proved reserves estimation may include decline curve analysis, statistical analysis of production performance, reservoir simulation and volumetric analysis. The observed statistical nature of production performance coupled with highly certain reservoir continuity or quality and sufficient proved developed locations establish the reasonable certainty criteria required for booking proved reserves. As per SEC requirements, proved undeveloped reserve volumes are limited to activity in the 5-year plan and wells that will be developed within 5 years of initial booking. 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 and future development costs, production history and continual reassessment of the viability of future production volumes under varying economic conditions.

Reserve estimates are based on an unweighted average of commodity prices in the prior 12-month period using the closing prices on the first day of each month, as defined by the SEC. When determining the December 31, 2023, proved reserves for each property, benchmark prices were adjusted using price differentials that account for property-specific quality and location differences.

If the future average commodity prices are below the average prices used to determine proved reserves at December 31, 2023, it could have an adverse effect on our estimates of proved reserve volumes and the value of our business. Future reserve revisions could also result from changes in capital funding, drilling plans and governmental regulation, among other things. It is difficult to estimate the magnitude of any potential price change and the effect on proved reserves, due to numerous factors. 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 and natural gas producing properties is determined by the units-of-production method and could change with revisions to estimated proved reserves. 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 2023 proved reserves based on 2023 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
United States	\$ (1.51)	\$ 196	\$ 1.85	\$ (240)
International	\$ (0.22)	\$ 4	\$ 0.27	\$ (5)

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 13](#) to the consolidated financial statements for disclosures regarding our fair value measurements.

Significant uses of fair value measurements include:

- assets and liabilities acquired in a business combination;
- impairment assessments of long-lived assets;
- impairment assessments of equity method investments;
- recorded value of derivative instruments; and
- recorded value of pension plan assets.

The need to test long-lived assets for impairment can be based on several indicators, including a significant reduction in prices of crude oil and condensate, NGLs and natural gas, sustained declines in our common stock, reductions to our capital budget, 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.

Assets and Liabilities Acquired in a Business Combination

In accounting for business combinations, the purchase price paid to acquire a business is allocated to its assets and liabilities based on the estimated fair values of the assets acquired and liabilities assumed as of the date of acquisition. If applicable, any excess of the purchase price over the fair value is recorded as goodwill. A significant amount of judgment is involved in estimating the individual fair values of property, plant and equipment. The most significant assumptions relate to the estimated fair values allocated to proved and unproved liquid hydrocarbon and natural gas properties. Estimated fair values assigned to assets acquired can have a significant effect on our results of operations in the future. We use all available information to make these fair value determinations and, for certain acquisitions, engage third-party valuation experts for assistance, including the 2022 Ensign acquisition.

The fair values used to allocate the purchase price of an acquisition are often estimated using the expected present value of future cash flows method, which requires us to estimate reserves as described above under Estimated Quantities of Net Reserves, project related future cash inflows and outflows and apply an appropriate discount rate. The estimates used in determining fair values are based on assumptions believed to be reasonable but which are inherently uncertain. Accordingly, actual results may differ from the projected results used to determine fair value. Significant assumptions include:

- *Future crude oil and condensate, NGLs and natural gas realized prices.* Our estimates of future prices are based on our analysis of research on 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. We expect numerous factors to impact supply, 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. There has been significant volatility in crude oil and condensate, NGLs and natural gas prices and estimates of such future prices are inherently imprecise. See Part I. **Item 1A. Risk Factors** for further discussion on commodity prices.
- *Estimated quantities of crude oil and condensate, NGLs and natural gas.* Such quantities are based on a combination of risk-adjusted reserves and resources such that the combined volumes represent the most likely expectation of recovery. See Part I. **Item 1A. Risk Factors** for further discussion on reserves.
- *Expected timing of production.* Production forecasts are the outcome of engineering studies which estimate reserves, as well as expected capital 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 operating and development costs.* Our estimates of future operating & development costs are based upon a combination of authorized spending and internal forecasts.

See Item 8. Financial Statements and Supplementary Data – **Note 4** to the consolidated financial statements for additional information related to our 2022 acquisition of the Eagle Ford assets of Ensign, which was accounted for as a business combination.

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.

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 are consistent with those discussed in the Assets and Liabilities Acquired in a Business Combination section above.

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.

See Item 8. Financial Statements and Supplementary Data – **Note 10** to the consolidated financial statements for discussion of impairments recorded in 2023, 2022 and 2021 and the related fair value measurements.

Impairment Assessment of Equity Method Investments

Equity method investments are assessed for impairment whenever changes in the facts and circumstances indicate a loss in value may have occurred. When a loss is deemed to have occurred that is other than temporary, the carrying value of the equity method investment is written down to fair value.

Fair value calculated for the purpose of testing our equity method investees for impairment is estimated using the present value of expected future cash flows method. Significant judgment is involved in performing these fair value estimates since the results are based on forecasted assumptions and the performance of entities that we do not control. Significant assumptions include future condensate, NGL, LNG, natural gas and methanol prices, estimated quantities of feedstock condensate, NGLs and natural gas processed by our investees, expected timing of production and discount rate commensurate with the risks involved.

We base our fair value estimates on projected financial information which we believe to be reasonably likely to occur. This includes the estimated dividends and/or return of capital we expect to receive from our equity method investees, which are directly affected by the significant assumptions described in the preceding paragraphs. An estimate of the sensitivity to changes in assumptions in our cash flow calculations is not practicable, given the numerous other assumptions (e.g. reserves, commodity prices, operating 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.

During 2023, 2022 and 2021, we had no impairments related to our equity method investments.

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 12** 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**.

Pension Plan Assets

Pension plan assets are measured at fair value. See Item 8. Financial Statements and Supplementary Data – **Note 20** to the consolidated financial statements for discussion of the fair value of plan assets and the presentation of the fair value of our defined benefit pension plan's assets by level within the fair value hierarchy as of December 31, 2023 and 2022.

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.

Uncertainty exists regarding tax positions taken in previously filed tax returns which remain subject to examination, along with positions expected to be taken in future returns. We provide for unrecognized tax benefits, based on the technical merits, when it is more likely than not that an uncertain tax position will not be sustained upon examination. Adjustments are made to the uncertain tax positions when facts and circumstances change, such as the closing of a tax audit; court proceedings; changes in applicable tax laws, including tax case rulings and legislative guidance; or expiration of the applicable statute of limitations.

We have recorded deferred tax assets and liabilities, measured at enacted tax rates, for temporary differences between book basis and tax basis, tax credit carryforwards and operating loss carryforwards. In accordance with U.S. GAAP, we routinely assess the realizability of our deferred tax assets and reduce such assets to the expected realizable amount 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 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 that are prudent and feasible. Negative evidence includes losses in recent years, as well as the forecasts of future loss in the realizable period. In making our assessment regarding valuation allowances, we weight the evidence based on objectivity.

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 and natural gas prices, (ii) estimated quantities of crude oil and condensate, NGLs and natural gas, (iii) expected timing of production, and (iv) future capital requirements. 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 capital expenditures.

As of December 31, 2023, we reflect a valuation allowance in our consolidated balance sheet of \$30 million against our gross deferred tax assets of \$1.3 billion. We continue to assess whether the balance of the valuation allowance is appropriate on a quarterly basis particularly given the expiring nature of foreign tax credits in years 2024 through 2026. If we experience sustained lower commodity prices that impact the performance of future earnings, it is reasonably possible that within the next 12 months sufficient negative evidence may exist that will require us to establish additional valuation allowance on our deferred tax assets that we do not expect to realize. See Item 8. Financial Statements and Supplementary Data – Note 7 to the consolidated financial statements for further detail.

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 (such as production, severance and ad valorem taxes). 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.

Item 7A. Quantitative and Qualitative Disclosures About Market Risk

We are exposed to market risks in the normal course of business including commodity price risk and interest rate risk. We employ various strategies, including the use of financial derivatives to manage the risks related to commodity price and interest rate fluctuations. See Item 8. Financial Statements and Supplementary Data – [Note 12](#) and [Note 13](#) to the consolidated financial statements for detail relating to our open commodity derivative positions, including underlying notional quantities, how they are reported in our consolidated financial statements and how their fair values are measured.

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 the years 2021 through 2023 were impacted by commodity derivatives related to a portion of our forecasted United States sales.

As of December 31, 2023, we had open commodity derivatives related to crude oil. Based on the December 31, 2023 published NYMEX WTI futures prices, a hypothetical 10% change (per bbl for crude oil) would change the fair values of our commodity derivative positions to the following:

<i>(In millions)</i>	Fair Value at December 31, 2023	Hypothetical Price Increase of 10%	Hypothetical Price Decrease of 10%
Derivative asset – Crude Oil	\$ 24	\$ 5	\$ 49

Interest Rate Risk

At December 31, 2023, our portfolio of current and long-term debt is comprised of floating rate debt and fixed-rate instruments. Our Term Loan Facility and commercial paper borrowings are floating rate debt instruments, which exposes us to the risk of earnings or cash flow losses as the result of potential increases in market interest rates. At December 31, 2023, we had \$1.2 billion and \$450 million in outstanding borrowings under our Term Loan Facility and commercial paper, respectively. Assuming no change in the amount of floating rate debt outstanding, a hypothetical 100 basis point increase in the average interest rate under these borrowings would have increased our interest expense by approximately \$12 million and \$5 million, respectively. Actual results may vary due to changes in the amount of floating rate debt outstanding.

At December 31, 2023, we had \$3.8 billion in outstanding borrowings under fixed-rate debt instruments. 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.

At December 31, 2023, we had forward starting interest rate swap agreements with a total notional amount of \$295 million designated as cash flow hedges. We utilize cash flow hedges to manage our exposure to interest rate movements by utilizing interest rate swap agreements to hedge variations in cash flows related to the SOFR interest component of future lease payments on our Houston office. A hypothetical 10% change in interest rates would change the fair values of our cash flow hedges to the following as of December 31, 2023:

<i>(In millions)</i>	Fair Value at December 31, 2023	Hypothetical Interest Rate Increase of 10%	Hypothetical Interest Rate Decrease of 10%
Interest rate asset (liability) – designated as cash flow hedges	\$ 18	\$ 20	\$ 15

Counterparty Risk

We are also exposed to financial risk in the event of nonperformance by counterparties. If commodity prices fall below certain levels, 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

Chairman, President and Chief Executive Officer

/s/ Dane E. Whitehead

Executive Vice President and Chief Financial Officer

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, 2023.

The effectiveness of Marathon Oil’s internal control over financial reporting as of December 31, 2023, 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

Chairman, President and Chief Executive Officer

/s/ Dane E. Whitehead

Executive Vice President and Chief Financial Officer

Report of Independent Registered Public Accounting Firm

To the Board of Directors and Stockholders of Marathon Oil Corporation

Opinions on the Financial Statements and Internal Control over Financial Reporting

We have audited the accompanying consolidated balance sheet of Marathon Oil Corporation and its subsidiaries (the “Company”) as of December 31, 2023 and 2022, and the related consolidated statements of income, of comprehensive income, of stockholders’ equity and of cash flows for each of the three years in the period ended December 31, 2023, including the related notes (collectively referred to as the “consolidated financial statements”). We also have audited the Company's internal control over financial reporting as of December 31, 2023, based on criteria established in Internal Control - Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of the Company as of December 31, 2023 and 2022, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2023 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, 2023, based on criteria established in Internal Control - Integrated Framework (2013) issued by the COSO.

Basis for Opinions

The Company's management is responsible for these consolidated 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 the Company’s consolidated financial statements and on the Company's internal control over financial reporting based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud, and whether effective internal control over financial reporting was maintained in all material respects.

Our audits of the consolidated financial statements included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. 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.

Definition and Limitations of Internal Control over Financial Reporting

A company’s internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company’s internal control over financial reporting includes those policies and procedures that (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.

Critical Audit Matters

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

The Impact of Proved Developed Oil and Condensate, Natural Gas Liquids (NGLs) and Natural Gas Reserves on Proved Oil and Gas Properties, Net

As described in Notes 1 and 9 to the consolidated financial statements, the Company's consolidated property, plant and equipment, net balance was \$17,213 million as of December 31, 2023, and depreciation, depletion, and amortization (DD&A) expense for the year ended December 31, 2023, was \$2,211 million. The Company follows the successful efforts method of accounting for its oil and gas producing activities. Under this method, capitalized costs to acquire oil and natural gas properties 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. As disclosed by management, proved reserve estimates may change as additional information becomes available and as contractual, operational, economic and political conditions change. 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 and future development costs, production history and continual reassessment of the viability of future production volumes under varying economic conditions. The estimates of proved oil and condensate, NGLs and natural gas reserves have been developed by specialists, specifically petroleum engineers and geoscientists.

The principal considerations for our determination that performing procedures relating to the impact of proved developed oil and condensate, NGLs and natural gas reserves on proved oil and natural gas properties, net is a critical audit matter are (i) the significant judgment by management, including the use of specialists, when developing the estimates of proved developed oil and condensate, NGLs and natural gas reserves which in turn led to (ii) a high degree of auditor judgment, subjectivity, and effort in performing procedures and evaluating audit evidence related to data, methods, and assumptions used by management and its specialists in developing the estimates of proved developed oil and condensate, NGLs, and natural gas reserves.

Addressing the matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the consolidated financial statements. These procedures included testing the effectiveness of controls relating to management's estimates of proved developed oil and condensate, NGLs, and natural gas reserves. The work of management's specialists was used in performing the procedures to evaluate the reasonableness of the estimate of proved developed oil and condensate, NGLs, and natural gas reserves. As a basis for using this work, the specialists' qualifications were understood and the Company's relationship with the specialists was assessed. The procedures performed also included evaluating the methods and assumptions used by the specialists, testing the completeness and accuracy of data used by the specialists and evaluating the specialists' findings.

/s/ PricewaterhouseCoopers LLP

Houston, Texas
February 22, 2024

We have served as the Company's auditor since 1982.

MARATHON OIL CORPORATION
Consolidated Statements of Income

Year Ended December 31,

(In millions, except per share data)

2023 2022 2021

Revenues and other income:			
Revenues from contracts with customers	\$	6,407	\$ 7,540 \$ 5,601
Net gain (loss) on commodity derivatives		42	(114) (383)
Income from equity method investments		185	613 253
Net gain (loss) on disposal of assets		17	(38) (19)
Other income		46	35 15
Total revenues and other income		6,697	8,036 5,467
Costs and expenses:			
Production		828	690 534
Shipping, handling and other operating		689	733 727
Exploration		59	110 136
Depreciation, depletion and amortization		2,211	1,753 2,066
Impairments		2	7 60
Taxes other than income		363	484 345
General and administrative		297	308 291
Total costs and expenses		4,449	4,085 4,159
Income from operations		2,248	3,951 1,308
Net interest and other		(352)	(188) (188)
Other net periodic benefit credits		15	16 5
Loss on early extinguishment of debt		—	— (121)
Income before income taxes		1,911	3,779 1,004
Provision for income taxes		357	167 58
Net income	\$	1,554	\$ 3,612 \$ 946
Net income per share:			
Basic	\$	2.56	\$ 5.27 \$ 1.20
Diluted	\$	2.56	\$ 5.26 \$ 1.20
Weighted average common shares outstanding:			
Basic		607	685 787
Diluted		608	687 788

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,		
	2023	2022	2021
Net income	\$ 1,554	\$ 3,612	\$ 946
Other comprehensive income (loss), net of tax			
Change in actuarial gain (loss) and other for postretirement and postemployment plans	(20)	3	14
Change in derivative hedges unrecognized gain (loss)	(5)	22	23
Reclassification of de-designated forward interest rate swaps	—	—	(28)
Other	1	(1)	—
Other comprehensive income (loss)	(24)	24	9
Comprehensive income	\$ 1,530	\$ 3,636	\$ 955

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

MARATHON OIL CORPORATION
Consolidated Balance Sheet

<i>(In millions, except par values and share amounts)</i>	December 31,	
	2023	2022
Assets		
Current assets:		
Cash and cash equivalents	\$ 155	\$ 334
Receivables, net	1,152	1,146
Inventories	186	125
Other current assets	76	66
Total current assets	1,569	1,671
Equity method investments	433	577
Property, plant and equipment, less accumulated depreciation, depletion and amortization of \$25,914 and \$23,876	17,213	17,377
Other noncurrent assets	360	315
Total assets	\$ 19,575	\$ 19,940
Liabilities		
Current liabilities:		
Accounts payable	\$ 1,364	\$ 1,279
Commercial paper	450	—
Payroll and benefits payable	70	90
Accrued taxes	126	171
Other current liabilities	312	364
Long-term debt due within one year	1,600	402
Total current liabilities	3,922	2,306
Long-term debt	3,378	5,521
Deferred tax liabilities	419	167
Defined benefit postretirement plan obligations	93	100
Asset retirement obligations	326	295
Deferred credits and other liabilities	232	154
Total liabilities	8,370	8,543
Commitments and contingencies (Note 24)		
Stockholders' Equity		
Preferred stock – no shares issued or outstanding (no par value, 26 million shares authorized)	—	—
Common stock:		
Issued – 937 million shares (par value \$1 per share, 1.925 billion shares authorized at December 31, 2023 and December 31, 2022)	937	937
Held in treasury, at cost – 360 million shares and 304 million shares	(8,952)	(7,512)
Additional paid-in capital	7,172	7,203
Retained earnings	11,966	10,663
Accumulated other comprehensive income	82	106
Total stockholders' equity	11,205	11,397
Total liabilities and stockholders' equity	\$ 19,575	\$ 19,940

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,		
	2023	2022	2021
Increase (decrease) in cash and cash equivalents			
Operating activities:			
Net income	\$ 1,554	\$ 3,612	\$ 946
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, depletion and amortization	2,211	1,753	2,066
Impairments	2	7	60
Exploratory dry well costs and unproved property impairments	53	101	125
Net (gain) loss on disposal of assets	(17)	38	19
Loss on early extinguishment of debt	—	—	121
Deferred income taxes	299	(17)	(27)
Unrealized gain on derivative instruments, net	(13)	(18)	(16)
Pension and other post retirement benefits, net	(33)	(35)	(31)
Stock-based compensation	43	38	40
Equity method investments, net	83	(139)	(76)
Changes in:			
Current receivables	(21)	9	(389)
Inventories	(64)	(45)	(1)
Current accounts payable and accrued liabilities	(10)	101	369
Other current assets and liabilities	(5)	(47)	46
All other operating, net	5	70	(13)
Net cash provided by operating activities	<u>4,087</u>	<u>5,428</u>	<u>3,239</u>
Investing activities:			
Capital expenditures	(2,033)	(1,480)	(1,032)
Change in capital accrual	(25)	30	(14)
Acquisitions, net of cash acquired	(12)	(3,177)	(47)
Disposal of assets, net of cash transferred to the buyer	3	11	22
Equity method investments - return of capital	61	12	61
All other investing, net	—	(1)	—
Net cash used in investing activities	<u>(2,006)</u>	<u>(4,605)</u>	<u>(1,010)</u>
Financing activities:			
Proceeds from revolving credit facility	1,248	450	—
Repayments of revolving credit facility	(1,698)	—	—
Proceeds from commercial paper borrowings, net	450	—	—
Borrowings	200	1,500	—
Debt repayments	(701)	(35)	(1,400)
Debt extinguishment costs	—	—	(117)
Shares repurchased under buyback programs	(1,473)	(2,754)	(724)
Dividends paid	(251)	(220)	(141)
Withholding tax on stock-based incentive awards	(31)	(22)	(10)
All other financing, net	(4)	12	1
Net cash used in financing activities	<u>(2,260)</u>	<u>(1,069)</u>	<u>(2,391)</u>
Net decrease in cash and cash equivalents	(179)	(246)	(162)
Cash and cash equivalents at beginning of period	334	580	742
Cash and cash equivalents at end of period	\$ 155	\$ 334	\$ 580

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	Treasury Stock	Additional Paid-in Capital	Retained Earnings	Accumulated Other Comprehensive Income	Total Equity	
December 31, 2020 Balance	\$ —	\$ 937	\$ (4,089)	\$ 7,174	\$ 6,466	\$ 73	\$ 10,561	
Shares repurchased under buyback programs	—	—	(724)	—	—	—	(724)	
Stock-based compensation	—	—	(12)	47	—	—	35	
Net income	—	—	—	—	946	—	946	
Other comprehensive income	—	—	—	—	—	9	9	
Dividends paid (\$0.18 per share)	—	—	—	—	(141)	—	(141)	
December 31, 2021 Balance	\$ —	\$ 937	\$ (4,825)	\$ 7,221	\$ 7,271	\$ 82	\$ 10,686	
Shares repurchased under buyback programs	—	—	(2,754)	—	—	—	(2,754)	
Stock-based compensation	—	—	67	(18)	—	—	49	
Net income	—	—	—	—	3,612	—	3,612	
Other comprehensive income	—	—	—	—	—	24	24	
Dividends paid (\$0.32 per share)	—	—	—	—	(220)	—	(220)	
December 31, 2022 Balance	\$ —	\$ 937	\$ (7,512)	\$ 7,203	\$ 10,663	\$ 106	\$ 11,397	
Shares repurchased under buyback programs	—	—	(1,473)	—	—	—	(1,473)	
Excise tax on shares repurchased	—	—	(14)	—	—	—	(14)	
Stock-based compensation	—	—	47	(31)	—	—	16	
Net income	—	—	—	—	1,554	—	1,554	
Other comprehensive loss	—	—	—	—	—	(24)	(24)	
Dividends paid (\$0.41 per share)	—	—	—	—	(251)	—	(251)	
December 31, 2023 Balance	\$ —	\$ 937	\$ (8,952)	\$ 7,172	\$ 11,966	\$ 82	\$ 11,205	

<i>(Shares in millions)</i>	Preferred Stock	Common Stock	Treasury Stock
December 31, 2020 Balance	—	937	148
Stock-based compensation	—	—	—
Shares repurchased under buyback programs	—	—	46
December 31, 2021 Balance	—	937	194
Stock-based compensation	—	—	(3)
Shares repurchased under buyback programs	—	—	113
December 31, 2022 Balance	—	937	304
Stock-based compensation	—	—	(2)
Shares repurchased under buyback programs	—	—	58
December 31, 2023 Balance	—	937	360

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 an independent exploration and production 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.

Basis of presentation and principles applied in consolidation – These consolidated financial statements, including notes, have been prepared in accordance with U.S. GAAP. These consolidated financial statements include the accounts of our 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 revenues 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 may have occurred. When a loss is deemed to have occurred and is 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.

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.

Estimated quantities of crude oil and condensate, NGLs and natural gas reserves is a significant estimate that requires judgment. All of the reserve data included in this Form 10-K are estimates. Reservoir engineering is a subjective process of estimating underground accumulations of crude oil and condensate, NGLs and natural gas. There are numerous uncertainties inherent in estimating quantities of proved crude oil and condensate, NGLs and natural gas reserves. The accuracy of any reserves estimate is a function of the quality of available data and of engineering and geological interpretation and judgment. As a result, reserve estimates may be different from the quantities of crude oil and condensate, NGLs and natural gas that are ultimately recovered. See unaudited Supplementary Data – Supplementary Information on Oil and Gas Producing Activities for further detail.

Other items subject to estimates and assumptions include the carrying amounts of property, plant and equipment, asset retirement obligations, valuation of assets and liabilities in a business combination, valuation of derivative instruments, contingent obligations and valuation allowances for deferred income tax assets, as well as other items recognized at fair value. Although we believe these estimates are reasonable, actual results could differ from these estimates.

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 associated with the sales of crude oil and condensate, NGLs and natural gas are recognized when our performance obligation is satisfied, which typically occurs at the point where control transfers to the customer based on contract terms. Revenue is measured as the amount the Company expects to receive in exchange for transferring commodities to the customer. Our hydrocarbon sales are typically based on prevailing market-based prices and may include quality or location differential adjustments. Payment is generally due within 30 days of delivery.

We typically incur shipping and handling costs prior to control transferring to the customer and account for these activities as fulfillment costs. These costs are reflected in shipping, handling and other operating expense in our consolidated statements of income.

Our U.S. production of crude oil and condensate, NGLs and natural gas is generally sold immediately and transported to market. In our international segment, liquid hydrocarbon production may be stored as inventory and sold at a later time.

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.

MARATHON OIL CORPORATION
Notes to Consolidated Financial Statements

Accounts receivable – The majority of our receivables are from purchasers of commodities or joint interest owners in properties we operate, both of which are recorded at estimated or 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. We routinely assess the collectability of receivable balances to determine if the amount of the reserve for credit losses is sufficient. Write-off activity and the balance of our reserve for credit losses was immaterial in each of the years ended December 31, 2023 and December 31, 2022.

Inventories – Crude oil and natural gas are recorded at weighted average cost and carried at the lower of cost or net realizable 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, commodity locational risk and interest 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 and interest rate risk are classified in operating activities. Our derivative instruments contain no significant contingent credit features.

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 as well as to stabilize future lease payments on our Houston office 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 changes in the fair value of a qualifying cash flow hedge are recorded in other comprehensive income until the hedged transaction affects earnings and are then reclassified into net income. Ineffective portions of a cash flow hedge are no longer measured or disclosed separately. However, if it is determined that the likelihood of the original forecasted transaction occurring is no longer probable, or the cash flow hedge is no longer expected to be highly effective, subsequent changes in fair value of the derivative instrument are recorded in net income.

Derivatives not designated as hedges – Derivatives that are not designated as hedges may include commodity derivatives used primarily to manage price and locational risks on the forecasted sale of crude oil, NGLs and natural gas 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.

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

Property acquisition costs – Costs to acquire mineral interests in oil and natural gas properties, to drill exploratory wells in progress and those that find proved reserves and to drill development wells 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.

MARATHON OIL CORPORATION
Notes to Consolidated Financial Statements

Depreciation, depletion and amortization – Capitalized costs to acquire oil and natural gas properties 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. The table below summarizes these assets by type, useful life and the net asset balance as of the periods presented:

Type of Asset	Range of Useful Lives	December 31,	
		2023	2022
<i>(In millions)</i>			
Office furniture, equipment and computer hardware	4 to 15 years	\$ 55	\$ 36
Pipelines	5 to 40 years	\$ 12	\$ 13
Plants, facilities and infrastructure	3 to 40 years	\$ 1,567	\$ 1,510

Impairments – We evaluate our oil and gas producing properties, including capitalized costs of exploratory wells and development costs, 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, lease expiration dates 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.

Acquisitions – We account for acquisitions that qualify as business combinations by applying the acquisition method. Under this method of accounting, the identifiable assets acquired and liabilities assumed are recognized and measured at their estimated fair values at the date of acquisition. Any excess of the purchase price over the fair values of the identifiable assets acquired and liabilities assumed is recorded as goodwill. Transaction costs related to business combinations are expensed as incurred 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 the disposal transaction closes. If a loss on disposal is expected, such loss is recognized either when the asset is classified as held for sale based on estimated fair value less cost to sell, or when there is a current expectation that, more likely than not, the asset will be sold significantly before the end of its previously estimated useful life measured using a probability weighted income approach considering the anticipated sales price if the asset is sold and a held-for-use model if the asset is retained. Proceeds from the disposal of a portion 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.

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. Asset retirement obligations for such facilities include costs to dismantle and relocate or dispose of production platforms, gathering systems, wells and related structures and restoration costs of land, including those leased. Estimates of these costs are developed for each property based on the type of production facilities and equipment, reservoir characteristics, depth of the reservoir, market demand for equipment, currently available procedures and consultations with construction and engineering professionals.

MARATHON OIL CORPORATION

Notes to Consolidated Financial Statements

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 developed reserves for oil and gas production facilities, while accretion of the liability occurs over the useful lives of the assets.

Income taxes – Deferred tax assets and liabilities, measured at enacted tax rates, 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. We use the liability method in determining our provision and liabilities for our income taxes, under which current and deferred tax liabilities and assets are recorded in accordance with enacted tax laws and rates.

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, restricted stock units and director restricted stock units is determined based on the market value of our common stock on the date of grant. Restricted stock awards, restricted stock units and director restricted stock units are removed from Treasury Stock at grant, vesting and distribution, respectively.

The fair value of our cash-settled stock-based performance units is estimated by multiplying (i) the number of units granted, (ii) the vesting percentage with (iii) our common stock's closing price plus accumulated dividend equivalents per share of our common stock. These performance units have a banking feature and only the unbanked portion of the fair value will be estimated. Once a banking level has been achieved, the banked units will have their value determined based on the average of the daily closing price of our common stock during the final 30 calendar days ending on the last trading day of the quarter that the banking was achieved. At the end of the performance period, any unbanked portion of the benefit will have their value determined based on the average of the daily closing price of our common stock during the final 30 calendar days ending on the last trading day of the performance period. 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. The fair value of our stock-settled stock-based performance units is estimated using the Monte Carlo simulation method at grant date only. Since these awards are settled in stock, they are classified as equity.

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. New Accounting Standards

Accounting Standards Updates Adopted

No new accounting standards were adopted during the year ended 2023 that had a material impact on our consolidated financial statements.

Accounting Standards Updates Not Yet Adopted

In November 2023, the FASB issued a new accounting standards update to improve the disclosures around a public entity's reportable segments. The standard requires disclosure of significant segment expenses included within each reported measure of segment profit or loss. This standard is effective for annual reporting periods beginning after December 15, 2023, and interim reporting periods within annual reporting periods beginning after December 15, 2024, with early adoption permitted. The standard is effective for us in the 2024 annual reporting period and will be applied retrospectively to all prior periods presented in the financial statements. This standard only modifies disclosure requirements; as such, there will be no impact on our consolidated results of operations, financial position or cash flows.

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In December 2023, the FASB issued a new accounting standards update to improve income tax disclosures primarily related to the rate reconciliation and income taxes paid. The standard requires consistent categories and greater disaggregation of information in the rate reconciliation and income taxes paid by jurisdiction. The standard is effective for annual periods beginning after December 15, 2024, with early adoption permitted. This standard is effective for us in the 2025 annual reporting period and will be applied retrospectively to all prior periods presented in the financial statements. The standard only modifies disclosure requirements; as such, there will be no impact on our consolidated results of operations, financial position or cash flows.

There were no other issued but pending accounting standards expected to have a material impact on our consolidated financial statements.

3. Income and Dividends per Common Share

Basic income per share is based on the weighted average number of common shares outstanding. Diluted income per share assumes exercise of stock options in all periods, provided the effect is not antidilutive. The per share calculations below exclude 1 million, 2 million and 4 million of antidilutive stock options for 2023, 2022 and 2021, respectively:

<i>(In millions, except per share data)</i>	Year Ended December 31,		
	2023	2022	2021
Net income	\$ 1,554	\$ 3,612	\$ 946
Weighted average common shares outstanding	607	685	787
Effect of dilutive securities	1	2	1
Weighted average common shares, diluted	608	687	788
Net income per share:			
Basic	\$ 2.56	\$ 5.27	\$ 1.20
Diluted	\$ 2.56	\$ 5.26	\$ 1.20
Dividends per share	\$ 0.41	\$ 0.32	\$ 0.18

4. Acquisitions

On November 2, 2022, we executed a definitive purchase agreement to acquire the assets and certain related liabilities of Ensign in the Eagle Ford resource play in Texas and the transaction was closed on December 27, 2022 (“the closing date”) for cash consideration of \$3.0 billion, which was subject to customary closing adjustments. The assets acquired primarily consisted of approximately 130,000 net proved and unproved acres, with an average 97% working interest, and approximately 700 existing wells. We funded the acquisition using a combination of cash on hand and borrowings under our Term Loan Facility and Revolving Credit Facility. See [Note 14](#) for further information related to the Term Loan Facility and Revolving Credit Facility.

The transaction was accounted for as a business combination. Our results of operations for the year ended December 31, 2022 include Ensign’s result of operations from the closing date through December 31, 2022. Revenue and net income attributable to Ensign during this period were immaterial. For the year ended December 31, 2022, transaction costs related to the acquisition were \$18 million, associated with advisory, legal, consulting and financing services, which were primarily recorded to general and administrative expense within our consolidated statement of operations. For the year ended December 31, 2023, transaction costs related to the acquisition were immaterial.

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The transaction was accounted for under the acquisition method, which requires that the assets acquired and liabilities assumed be recognized at their fair values as of the closing date. Fair values assigned to the assets acquired and liabilities assumed as of the closing date were as follows:

<i>(In millions)</i>	December 27, 2022
Assets:	
Inventories	\$ 4
Total current assets acquired	4
Property, plant and equipment	3,159
Total assets acquired	\$ 3,163
Liabilities:	
Other current liabilities	\$ 36
Total current liabilities assumed	36
Asset retirement obligations	41
Other noncurrent liabilities	58
Total liabilities assumed	135
Net assets acquired	\$ 3,028

The fair values of assets acquired and liabilities assumed were measured primarily using an income approach, specifically utilizing a discounted cash flow analysis. The estimated fair values were based on significant inputs not observable in the market, and therefore represent Level 3 measurements. Significant inputs included the expected future production volumes (including proved reserves), estimated realized commodity prices and assumptions regarding the amount and timing of future operating and development costs, and discount rate.

The following table summarizes the unaudited pro forma condensed financial information of the Company as if the business combination had occurred on January 1, 2021:

<i>(In millions)</i>	Year Ended December 31,	
	2022	2021
Revenues	\$ 9,116	\$ 5,757
Net income	\$ 3,974	\$ 941

The pro forma earnings include adjustments to depreciation expense associated with the recognition of the fair value of assets acquired, additional interest expense as a result of incurring new debt, and incremental income tax expense. The pro forma financial information does not include any cost savings or other synergies from the acquisition or any estimated costs that have been incurred to integrate the assets. The pro forma information is not intended to reflect the actual results of operations that would have occurred if the business combination had been completed at the beginning of fiscal year 2021 and is not intended to be a projection of our financial results of operations for any future periods.

In addition, during the fourth quarter of 2022, we increased our ownership interest in operated Eagle Ford resource play acreage for cash consideration of approximately \$135 million. This transaction was funded using a combination of cash on hand and borrowings under our Revolving Credit Facility and was accounted for as an asset acquisition.

5. Revenues

The majority of our revenues are derived from the sale of crude oil and condensate, NGLs and natural gas under spot and term agreements with our customers in the U.S. and E.G.

As of December 31, 2023 and December 31, 2022, receivables from contracts with customers, included in receivables, less reserves for credit losses, were \$886 million and \$875 million, respectively. The receivables from contracts with customers, less reserves for credit losses, as of December 31, 2022, reflects revisions to correct immaterial errors in our prior year revenues footnote disclosure.

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The following tables present our revenues from contracts with customers disaggregated by product type and geographic areas:

United States

Year Ended December 31, 2023

<i>(In millions)</i>	Eagle Ford	Bakken	Oklahoma	Permian	Other U.S.	Total
Crude oil and condensate	\$ 2,107	\$ 2,003	\$ 277	\$ 627	\$ 48	\$ 5,062
NGLs	283	171	137	77	—	668
Natural gas	189	92	129	37	2	449
Other	6	—	—	—	14	20
Revenues from contracts with customers	\$ 2,585	\$ 2,266	\$ 543	\$ 741	\$ 64	\$ 6,199

Year Ended December 31, 2022

<i>(In millions)</i>	Eagle Ford	Bakken	Oklahoma	Permian	Other U.S.	Total
Crude oil and condensate	\$ 2,004	\$ 2,508	\$ 423	\$ 456	\$ 161	\$ 5,552
NGLs	183	310	231	62	28	814
Natural gas	188	197	321	70	33	809
Other	7	—	—	—	86	93
Revenues from contracts with customers	\$ 2,382	\$ 3,015	\$ 975	\$ 588	\$ 308	\$ 7,268

Year Ended December 31, 2021

<i>(In millions)</i>	Eagle Ford	Bakken	Oklahoma	Permian	Other U.S.	Total
Crude oil and condensate	\$ 1,435	\$ 1,777	\$ 299	\$ 314	\$ 100	\$ 3,925
NGLs	161	239	189	47	17	653
Natural gas	159	119	280	55	19	632
Other	8	—	—	—	116	124
Revenues from contracts with customers	\$ 1,763	\$ 2,135	\$ 768	\$ 416	\$ 252	\$ 5,334

International (E.G.)

Year Ended December 31,

<i>(In millions)</i>	2023	2022	2021
Crude oil and condensate	\$ 183	\$ 244	\$ 240
NGLs	2	2	2
Natural gas	19	22	23
Other	4	4	2
Revenues from contracts with customers	\$ 208	\$ 272	\$ 267

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Customers and their respective affiliates who accounted for 10% or more of our total commodity sales were as follows:

	December 31,		
	2023	2022	2021
Percentage of Total Commodity Sales			
Marathon Petroleum Corporation	22 %	22 %	17 %
Trafigura Groupe Pte. Ltd.	12 %	10 %	N/A
Valero Marketing and Supply	11 %	12 %	10 %

The pricing in our hydrocarbon sales agreements is variable, determined using various published benchmarks that are adjusted for negotiated quality and location differentials. As a result, revenue collected under our agreements with customers is highly dependent on the market conditions and may fluctuate considerably as the hydrocarbon market prices rise or fall. Typically, our customers pay us monthly, within a short period of time after we deliver the hydrocarbon products. As such, we do not have any financing element associated with our contracts. Our experience with returns or refunds is negligible, as product specifications are standardized for the industry and are typically measured when transferred to a common carrier or midstream entity, and other contractual mechanisms (e.g., price adjustments) are used when products do not meet those specifications.

In limited cases, we may also collect advance payments from customers as stipulated in our agreements; payments in excess of recognized revenue are recorded as contract liabilities on our consolidated balance sheet.

Under our hydrocarbon sales agreements, the entire consideration amount is variable either due to pricing and/or volumes. We recognize revenue in the amount of variable consideration allocated to distinct units of hydrocarbons transferred to a customer. Such allocation reflects the amount of total consideration we expect to collect for completed deliveries of hydrocarbons and the terms of variable payments relate specifically to our efforts to satisfy the performance obligations under these contracts. Our performance obligations under our hydrocarbon sales agreements are to deliver either the entire production from the dedicated wells or specified contractual volumes of hydrocarbons.

We often serve as the operator for jointly owned oil and gas properties. As part of this role, we perform activities to explore, develop and produce oil and gas properties in accordance with the joint operating arrangements. Other working interest owners reimburse us for costs incurred based on our agreements. We determined that these activities are not performed as part of customer relationships and such reimbursements will continue to not be recorded as revenues within the scope of the revenue accounting standard.

In addition, we commonly market the share of production belonging to other working interest owners as the operator of jointly owned oil and gas properties. We concluded that those marketing activities are carried out as part of the collaborative arrangement. Therefore, we act as a principal only in regard to the sale of our share of production and recognize revenue for the volumes associated with our net production.

Crude oil and condensate

For the crude sales agreements, we satisfy our performance obligations and recognize revenue once customers take control of the crude at the designated delivery points, which include pipelines, trucks or vessels.

Natural gas and NGLs

When selling natural gas and NGLs, we engage midstream entities to process our production stream by separating natural gas from the NGLs. Frequently, these midstream entities also purchase our natural gas and NGLs under the same agreements. In these situations, we determined the performance obligation is complete and satisfied at the tailgate of the processing plant when the natural gas and NGLs become identifiable and measurable products. We determined the plant tailgate is the location where control is transferred to midstream entities, and they are entitled to significant risks and rewards of ownership of the natural gas and NGLs.

The amounts due to midstream entities for gathering and processing services are recognized as shipping and handling cost, since we make those payments in exchange for distinct services. Under some of our natural gas processing agreements, we have an option to take the processed natural gas and NGLs in-kind and sell to customers other than the processing company. In those circumstances, our performance obligations are complete after delivering the processed hydrocarbons to the customer at the designated delivery points, which may be the tailgate of the processing plant or an alternative delivery point requested by the customer.

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We have “percentage-of-proceeds” arrangements with some midstream entities where they retain a percentage of the proceeds collected for selling our processed natural gas and NGLs as compensation for their processing and marketing services. We recognize revenue for the gross sales volumes and recognize the proceeds retained by midstream companies as shipping and handling cost.

6. Segment Information

We have two reportable operating segments. Both of these segments are organized and managed based upon geographic location and the nature of the products and services offered.

- United States (“U.S.”) – explores for, produces and markets crude oil and condensate, NGLs and natural gas in the United States; and
- International (“Int’l”) – explores for, produces and markets crude oil and condensate, NGLs and natural gas outside of the United States as well as produces and markets products manufactured from natural gas, such as LNG and methanol, in E.G.

Segment income represents income that excludes certain items not allocated to our operating segments, net of income taxes. A portion of our corporate and operations general and administrative support 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, impairments of proved and certain unproved properties, dry wells, changes in our valuation allowance, unrealized gains or losses on commodity and interest rate derivative instruments, effects of pension settlements and curtailments, expensed transaction costs for business combinations or other items (as determined by the chief operating decision maker (“CODM”)) are not allocated to operating segments.

<i>(In millions)</i>	Year Ended December 31, 2023			
	U.S.	Int’l	Not Allocated to Segments	Total
Revenues from contracts with customers	\$ 6,199	\$ 208	\$ —	\$ 6,407
Net gain on commodity derivatives	29	—	13 ^(c)	42
Income from equity method investments	—	185	—	185
Net gain on disposal of assets	—	—	17 ^(d)	17
Other income	21	21	4	46
Less costs and expenses:				
Production	753	75	—	828
Shipping, handling and other operating	647	5	37	689
Exploration	27	2	30 ^(e)	59
Depreciation, depletion and amortization	2,156	44	11	2,211
Impairments	—	—	2	2
Taxes other than income	364 ^(b)	—	(1)	363
General and administrative	131	13	153	297
Net interest and other	—	—	352	352
Other net periodic benefit credit	—	—	(15)	(15)
Income tax provision (benefit)	408	43	(94)	357
Segment income (loss)	<u>\$ 1,763</u>	<u>\$ 232</u>	<u>\$ (441)</u>	<u>\$ 1,554</u>
Total assets	<u>\$ 18,516</u>	<u>\$ 899</u>	<u>\$ 160</u>	<u>\$ 19,575</u>
Capital expenditures ^(a)	<u>\$ 2,010</u>	<u>\$ 7</u>	<u>\$ 16</u>	<u>\$ 2,033</u>

^(a) Includes accruals and excludes acquisitions.

^(b) Includes a nonrecurring Eagle Ford severance tax refund of \$47 million related to prior years.

^(c) Unrealized gain on commodity derivative instruments (See [Note 12](#)).

^(d) Includes a gain of \$11 million of contingent consideration related to a previously disposed asset in the Gulf of Mexico.

^(e) Includes \$10 million of dry well expense associated with wells in Permian (See [Note 9](#)) and \$11 million of unproved impairments related to Permian exploration leases (See [Note 10](#)).

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Year Ended December 31, 2022

<i>(In millions)</i>	U.S.	Int'l	Not Allocated to Segments	Total
Revenues from contracts with customers	\$ 7,268	\$ 272	\$ —	\$ 7,540
Net gain (loss) on commodity derivatives	(132)	—	18 ^(b)	(114)
Income from equity method investments	—	613	—	613
Net loss on disposal of assets	—	—	(38) ^(c)	(38)
Other income	19	7	9	35
Less costs and expenses:				
Production	625	65	—	690
Shipping, handling and other operating	665	18	50	733
Exploration	36	—	74 ^(d)	110
Depreciation, depletion and amortization	1,675	60	18	1,753
Impairments	—	—	7	7
Taxes other than income	475	—	9	484
General and administrative	131	13	164	308
Net interest and other	—	—	188 ^(e)	188
Other net periodic benefit credit	—	—	(16)	(16)
Income tax provision (benefit)	808	151	(792) ^(f)	167
Segment income	<u>\$ 2,740</u>	<u>\$ 585</u>	<u>\$ 287</u>	<u>\$ 3,612</u>
Total assets	<u>\$ 18,429</u>	<u>\$ 1,157</u>	<u>\$ 354</u>	<u>\$ 19,940</u>
Capital expenditures ^(a)	<u>\$ 1,463</u>	<u>\$ 2</u>	<u>\$ 15</u>	<u>\$ 1,480</u>

^(a) Includes accruals and excludes acquisitions.

^(b) Unrealized gain on commodity derivative instruments (See [Note 12](#)).

^(c) Includes \$39 million in losses resulting from exchanges of unproved acreage in the Permian.

^(d) Includes dry well costs and unproved property impairments of \$48 million for Louisiana exploration leases and \$25 million for Permian exploration leases (See [Note 9](#) and [Note 10](#)).

^(e) Includes a \$17 million gain on our 2025 interest rate swaps (See [Note 12](#)).

^(f) Includes a \$685 million benefit related to the partial release of our valuation allowance (See [Note 7](#)).

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Year Ended December 31, 2021

<i>(In millions)</i>	U.S.	Int'l	Not Allocated to Segments	Total
Revenues from contracts with customers	\$ 5,334	\$ 267	\$ —	\$ 5,601
Net gain (loss) on commodity derivatives	(399)	—	16 ^(b)	(383)
Income from equity method investments	—	253	—	253
Net loss on disposal of assets	—	—	(19) ^(c)	(19)
Other income	7	4	4	15
Less costs and expenses:				
Production	480	54	—	534
Shipping, handling and other operating	686	16	25	727
Exploration	65	—	71 ^(d)	136
Depreciation, depletion and amortization	1,972	68	26	2,066
Impairments	—	—	60 ^(e)	60
Taxes other than income	346	—	(1)	345
General and administrative	107	13	171 ^(f)	291
Net interest and other	—	—	188 ^(g)	188
Other net periodic benefit credit	—	—	(5)	(5)
Loss on early extinguishment of debt	—	—	121 ^(h)	121
Income tax provision (benefit)	9	56	(7)	58
Segment income (loss)	<u>\$ 1,277</u>	<u>\$ 317</u>	<u>\$ (648)</u>	<u>\$ 946</u>
Total assets	<u>\$ 15,339</u>	<u>\$ 994</u>	<u>\$ 661</u>	<u>\$ 16,994</u>
Capital expenditures ^(a)	<u>\$ 1,018</u>	<u>\$ —</u>	<u>\$ 14</u>	<u>\$ 1,032</u>

^(a) Includes accruals and excludes acquisitions.

^(b) Unrealized gain on commodity derivative instruments (See [Note 12](#)).

^(c) Includes a \$20 million loss associated with a previously divested non-core conventional asset, a \$12 million pre-tax loss associated with a reduction in our ownership interest in EG LNG (See [Note 17](#)) and an \$8 million gain on various well bore assignments in Permian and Bakken.

^(d) Includes unproved property impairments of \$20 million for Louisiana exploration leases and \$16 million related to the disposition of a lease in Permian (See [Note 10](#)). Also includes \$28 million of expense associated with drilled and uncompleted wells, primarily in Permian, due to a change in our plan of development.

^(e) Includes impairments of \$24 million for central facilities in Eagle Ford (See [Note 10](#)), \$5 million for proved properties in Permian (See [Note 10](#)) and \$30 million associated with decommissioning costs for non-producing long-lived assets in Gulf of Mexico (See [Note 10](#), [Note 11](#), and [Note 24](#)).

^(f) Includes \$13 million associated with the termination of an aircraft lease agreement and \$12 million arising from severance expenses associated with a workforce reduction.

^(g) Includes a \$28 million gain on our 2022 interest rate swaps and a \$27 million gain on our 2025 interest rate swaps (See [Note 12](#)).

^(h) Represents costs related to a make-whole provision premium and the write off of unamortized discount and issuance costs in regards to the redemption of the 2022 Notes in April 2021 and 2025 Notes in September 2021 (See [Note 14](#)).

The following summarizes our balances of property, plant and equipment and equity method investments as of:

<i>(In millions)</i>	December 31,	
	2023	2022
United States	\$ 16,961	\$ 17,088
E.G.	685	866
Total long-lived assets	<u>\$ 17,646</u>	<u>\$ 17,954</u>

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7. Income Taxes

Income before income taxes was:

<i>(In millions)</i>	Year Ended December 31,		
	2023	2022	2021
United States	\$ 1,635	\$ 3,037	\$ 637
Foreign	276	742	367
Total	\$ 1,911	\$ 3,779	\$ 1,004

Income tax provisions (benefits) were:

<i>(In millions)</i>	Year Ended December 31,								
	2023			2022			2021		
	Current	Deferred	Total	Current	Deferred	Total	Current	Deferred	Total
Federal	\$ 1	\$ 298	\$ 299	\$ —	\$ (46)	\$ (46)	\$ —	\$ —	\$ —
State and local	1	17	18	12	52	64	4	1	5
Foreign	56	(16)	40	172	(23)	149	81	(28)	53
Total	\$ 58	\$ 299	\$ 357	\$ 184	\$ (17)	\$ 167	\$ 85	\$ (27)	\$ 58

A reconciliation of the federal statutory income tax rate applied to income before income taxes to the provision for income taxes follows:

<i>(In millions)</i>	Year Ended December 31,		
	2023	2022	2021
Total pre-tax income	\$ 1,911	\$ 3,779	\$ 1,004
Total income tax provision	\$ 357	\$ 167	\$ 58
Effective income tax rate	19 %	4 %	6 %
Income taxes at the statutory tax rate	\$ 401	\$ 793	\$ 211
Adjustments to valuation allowances	(59)	(691)	(166)
Effects of foreign operations	62	2	(13)
State income taxes, net of federal benefit	23	62	23
Tax law change	1	—	(2)
Tax credits generated	(97)	—	—
Other federal tax effects	26	1	5
Income tax provision	\$ 357	\$ 167	\$ 58

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 is reported in the “Not Allocated to Segments” column of the tables in [Note 6](#).

Adjustments to valuation allowances – Adjustments to valuation allowances decreased our 2023 tax provision due to the removal of previously recorded valuation allowance associated with foreign tax credits expiring unused in the current period. In the first quarter of 2022, as a result of significant increases in commodity prices, corresponding increases in projections of our future taxable income, and the absence of objective negative evidence such as a cumulative loss in recent years, we determined we had sufficient positive evidence to release a majority of the federal valuation allowance, which resulted in a non-cash deferred tax benefit of \$685 million. At that time, we retained a partial valuation allowance on certain U.S. deferred tax assets primarily as a result of volatility in commodity prices impacting assessed likelihood of future realizability. We continue to assess whether the balance of the valuation allowance is appropriate on a quarterly basis particularly given the expiring nature of foreign tax credits as outlined below. If we experience sustained lower commodity prices that impact the performance of future earnings, it is reasonably possible that within the next 12 months sufficient negative evidence may exist that will require us to establish additional valuation allowance on our deferred tax assets that we do not expect to realize.

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Effects of foreign operations – The effects of foreign operations in all periods was impacted by the income mix within E.G. The income mix between equity method investees and subsidiaries within E.G. can cause the effective tax rate in E.G. to differ from the U.S. statutory tax rate. In addition, 2023 also included the impacts of certain foreign tax credits expiring unused.

Tax credits generated – During the fourth quarter of 2023, we recorded a net benefit of \$97 million for U.S. federal and state tax credits related to qualified research and development costs incurred in 2023 and prior years.

Other federal tax effects – In 2023, the increase to other federal tax effects is primarily related to adjustments to net operating losses.

Deferred tax assets and liabilities resulted from the following:

<i>(In millions)</i>	Year Ended December 31,	
	2023	2022
Deferred tax assets:		
Employee benefits	\$ 51	\$ 56
Operating loss carryforwards	647	1,189
Foreign tax credits	406	602
Other tax credits	89	—
Lease deferred tax assets	53	31
Other	7	34
Subtotal	<u>1,253</u>	<u>1,912</u>
Valuation allowance	<u>(30)</u>	<u>(89)</u>
Total deferred tax assets	<u>1,223</u>	<u>1,823</u>
Deferred tax liabilities:		
Property, plant and equipment	1,521	1,850
Lease deferred tax liabilities	117	97
Other	4	3
Total deferred tax liabilities	<u>1,642</u>	<u>1,950</u>
Net deferred tax liabilities	<u>\$ 419</u>	<u>\$ 127</u>

Operating loss carryforwards – As of December 31, 2023, we have a gross deferred tax asset related to our operating loss carryforwards of \$647 million. U.S. operating loss carryforwards consist of \$2.8 billion (\$593 million deferred tax asset) which can be carried forward indefinitely. State operating loss carryforwards include \$1.3 billion (\$54 million deferred tax asset) that begin to expire in 2024.

Foreign tax credits – As of December 31, 2023, we reflect foreign tax credits of \$406 million, which will expire in years 2024 through 2026.

Other tax credits – As of December 31, 2023, we have recorded U.S. federal and state tax credits of \$88 million related to qualified research and development costs incurred in 2023 and prior periods. These tax credits will expire in years 2037 through 2043.

Valuation allowances – As of December 31, 2023, we reflect a valuation allowance in our consolidated balance sheet of \$30 million primarily against our net deferred tax assets in various state jurisdictions. The decrease in valuation allowance is primarily due to the removal of previously recorded valuation allowance associated with foreign tax credits expiring unused in the current period.

Property, plant and equipment – At December 31, 2023, we reflected a deferred tax liability of \$1.5 billion. The decrease primarily relates to current year activity in the U.S.

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

<i>(In millions)</i>	December 31,	
	2023	2022
Assets:		
Other noncurrent assets	\$ —	\$ 40
Liabilities:		
Noncurrent deferred tax liabilities	419	167
Net deferred tax liabilities	\$ 419	\$ 127

We are routinely undergoing examinations in the jurisdictions in which we operate. As of December 31, 2023, our income tax returns remain subject to examination in the following major tax jurisdictions for the tax years indicated:

United States ^(a)	2019 - 2022
E.G.	2007 - 2022

^(a) Includes federal and state jurisdictions.

The following table summarizes the activity in unrecognized tax benefits:

<i>(In millions)</i>	2023	2022	2021
Beginning balance	\$ —	\$ 10	\$ 8
Additions for tax positions related to the current year	13	—	—
Additions for tax positions of prior years	42	1	2
Settlements	—	(11)	—
Ending balance	\$ 55	\$ —	\$ 10

If the unrecognized tax benefits as of December 31, 2023 were recognized, \$53 million would affect our effective income tax rate. As of December 31, 2023, we do not expect uncertain tax positions to significantly change within the next twelve months.

Interest and penalties are recorded as part of the tax provision and were immaterial for the years ended December 31, 2023, 2022 and 2021. As of December 31, 2023, 2022 and 2021, we had no significant accrued interest or penalties related to income taxes.

In August 2022, the President signed the IRA into law. The IRA enacted various income tax provisions, including a 15% corporate book minimum tax. The corporate book minimum tax, which became effective on January 1, 2023, applies to corporations with an average annual adjusted financial statement income that exceeds \$1 billion for the preceding three years. Under current law and guidance, we have not been subject to the corporate book minimum tax in 2023 but anticipate that the corporate book minimum tax will apply in 2024. The U.S. Department of the Treasury and the IRS are expected to release further regulations and interpretive guidance implementing the legislation contained in the IRA. As this guidance is issued, we will continue to evaluate and assess the impact the IRA may have on our current and future period income taxes. We have made an accounting policy election to consider the effects of the corporate book minimum tax on the realizability of our deferred tax assets, carryforwards and tax credits as a period cost when they arise.

In December 2021, the Organization for Economic Co-operation and Development ("OECD") issued model rules for a new global minimum tax framework ("Pillar Two"), and various governments around the world have issued or are in the process of issuing legislation. We will continue to analyze legislation as it is enacted in countries in which we operate but at this time, impacts related to Pillar Two implementation are not expected to be material.

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8. Inventories

Crude oil and NGLs are recorded at weighted average cost and carried at the lower of cost or net realizable 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,	
	2023	2022
Crude oil and NGLs	\$ 14	\$ 15
Supplies and other items	172	110
Inventories	\$ 186	\$ 125

9. Property, Plant and Equipment

<i>(In millions)</i>	December 31,	
	2023	2022
United States	\$ 16,905	\$ 17,034
International	252	288
Not allocated to segments	56	55
Net property, plant and equipment	\$ 17,213	\$ 17,377

Changes in our capitalized exploratory well costs were as follows:

<i>(In millions)</i>	December 31,		
	2023	2022	2021
Beginning balance as of January 1	\$ 114	\$ 162	\$ 210
Additions	69	78	50
Charges to expense	(12)	(30)	(30)
Transfers to development	(79)	(96)	(68)
Ending balance as of December 31	\$ 92	\$ 114	\$ 162

We had no exploratory well costs capitalized greater than one year related to suspended wells as of December 31, 2023 and \$20 million as of December 31, 2022. The decrease during the year ended December 31, 2023 included a write off to dry well expense of \$10 million associated with uncompleted exploratory wells in Permian. The remaining reduction is a result of the resumption of completion activities for previously suspended wells.

10. Impairments

The following summarizes impairment charges of proved properties, unproved properties and asset retirement costs. Where we considered fair value to analyze impairments, the inputs represent Level 3 measurements.

- **2023 Impairments**

Unproved properties – During the year ended December 31, 2023, we recognized impairments of \$11 million of unproved property leases in Permian which were recorded within exploration expense of our consolidated statements of income.

- **2022 Impairments**

Unproved properties – During the year ended December 31, 2022, we recognized impairments of \$25 million of unproved property leases in Louisiana Austin Chalk. The impairments resulted from a combination of factors including timing of lease expiration dates, our assessment of risk and resource, and the decision not to develop the acreage. We also recognized impairments of \$17 million for unproved property leases in Permian as a result of acreage exchanges. The combined effects of the unproved property impairments were recorded within exploration expense of our consolidated statements of income.

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• **2021 Impairments**

Proved properties – During the year ended December 31, 2021, we recorded an impairment expense of \$5 million associated with our interest in outside operated conventional assets located in New Mexico. Additionally, we recorded an impairment expense of \$24 million associated with two central facilities located in Eagle Ford. Decommissioning activities associated with these central facilities included the re-routing of existing wells. The combined effects of proved property impairments were recorded within impairment expense of our consolidated statements of income.

Unproved properties – During the year ended December 31, 2021, we recognized unproved property impairments of \$20 million for Louisiana exploration leases and \$16 million related to the disposition of a Permian lease. The combined effects of the unproved property impairments were recorded within exploration expense of our consolidated statements of income.

Asset retirement costs of long-lived assets – During the year ended December 31, 2021, we recognized an incremental \$30 million of impairment expense associated with an increase in the estimated future decommissioning costs of certain non-producing wells, pipelines and production facilities for previously divested offshore assets located in the Gulf of Mexico. This cost was recorded within impairment expense of our consolidated statements of income.

11. 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. Changes in asset retirement obligations were as follows:

<i>(In millions)</i>	December 31,	
	2023	2022
Beginning balance as of January 1	\$ 340	\$ 316
Incurred liabilities, including acquisitions	12	55
Settled liabilities, including dispositions	(35)	(20)
Accretion expense (included in depreciation, depletion and amortization)	16	14
Revisions of estimates	7	(25)
Ending balance as of December 31	<u>\$ 340</u>	<u>\$ 340</u>
Ending balance as of December 31, short-term	<u>\$ 14</u>	<u>\$ 45</u>

- **2023** — During the year ended December 31, 2023, settled liabilities primarily related to previously disposed assets in the Gulf of Mexico as well as Permian abandonment activity.
- **2022** — During the year ended December 31, 2022, we incurred a liability of \$41 million as a result of our acquisition of the Eagle Ford assets of Ensign. See [Note 4](#) for further information regarding the acquisition.

12. Derivatives

We may use derivatives to manage a portion of our exposure to commodity price risk, commodity locational risk and interest rate risk. See [Note 1](#) for discussion of the types of derivatives we may use and the underlying reasons. For further information regarding the fair value measurement of derivative instruments, see [Note 13](#). All of our commodity derivatives and interest rate derivatives are subject to enforceable master netting arrangements or similar agreements under which we report net amounts.

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The following tables present the gross fair values of our open derivative instruments and the reported net amounts along with their locations in our consolidated balance sheets:

December 31, 2023

<i>(In millions)</i>	Asset	Liability	Net Asset	Balance Sheet Location
Not Designated as Hedges				
Commodity	\$ 24	\$ —	\$ 24	Other current assets
Total Not Designated as Hedges	\$ 24	\$ —	\$ 24	
Cash Flow Hedges				
Interest Rate	\$ 9	\$ —	\$ 9	Other current assets
Interest Rate	9	—	9	Other noncurrent assets
Total Designated Hedges	\$ 18	\$ —	\$ 18	
Total	\$ 42	\$ —	\$ 42	

December 31, 2022

<i>(In millions)</i>	Asset	Liability	Net Asset	Balance Sheet Location
Not Designated as Hedges				
Commodity	\$ 10	\$ —	\$ 10	Other current assets
Total Not Designated as Hedges	\$ 10	\$ —	\$ 10	
Cash Flow Hedges				
Interest Rate	\$ 9	\$ —	\$ 9	Other current assets
Interest Rate	15	—	15	Other noncurrent assets
Total Designated Hedges	\$ 24	\$ —	\$ 24	
Total	\$ 34	\$ —	\$ 34	

Derivatives Not Designated as Hedges

Commodity Derivatives

We have entered into crude oil derivatives indexed to their respective indices as noted in the table below, related to a portion of our forecasted U.S. sales through 2024. These derivatives are three-way collars. 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 price plus the difference between the floor and the sold put price. These crude oil derivatives were not designated as hedges.

The following table sets forth outstanding derivative contracts as of December 31, 2023 and the weighted average prices for those contracts:

	2024			
	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
Crude Oil				
NYMEX WTI Three-Way Collars				
Volume (Bbls/day)	40,000	40,000	20,000	20,000
Weighted average price per Bbl:				
Ceiling	\$ 101.01	\$ 101.01	\$ 101.95	\$ 101.95
Floor	\$ 66.25	\$ 66.25	\$ 65.00	\$ 65.00
Sold put	\$ 51.25	\$ 51.25	\$ 50.00	\$ 50.00

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The unrealized gain and realized gain (loss) impact of our commodity derivative instruments appears in the table below and is reflected in net gain (loss) on commodity derivatives in the consolidated statements of income:

<i>(In millions)</i>	Year Ended December 31,			
	2023	2022	2021	
Unrealized gain on derivative instruments, net	\$ 13	\$ 18	\$ 16	
Realized gain (loss) on derivative instruments, net ^(a)	\$ 29	\$ (132)	\$ (399)	

^(a) During the year ended 2023, net cash received for settled derivative positions was \$28 million. During the years ended 2022 and 2021, net cash paid for settled derivative positions was \$153 million, and \$356 million, respectively.

Interest Rate Swaps

During 2020, we entered into forward starting interest rate swaps with a notional amount of \$500 million to hedge the variations in cash flows related to fluctuations in the LIBOR benchmark interest rate related to forecasted interest payments of a future debt issuance in 2022. Each respective derivative contract can be tied to an anticipated underlying dollar notional amount. During the third quarter of 2020, we de-designated these forward starting interest rate swaps previously designated as cash flow hedges. In the first quarter of 2021, the net deferred loss of \$2 million in accumulated other comprehensive income related to these de-designated forward starting interest rate swaps was reclassified from accumulated other comprehensive income into earnings as an adjustment to net interest and other within our consolidated statements of income, as we fully redeemed the remainder of our outstanding 2022 Notes in April 2021. We closed the positions and settled the interest rate swaps in November 2021. During the year ended December 31, 2021, we recorded a \$28 million mark-to-market gain to net interest and other within our consolidated statements of income to reflect the change in value of these interest rate swaps.

During 2020, we entered into forward starting interest rate swaps with a notional amount of \$350 million to hedge variations in cash flows arising from fluctuations in the LIBOR benchmark interest rate related to forecasted interest payments of a future debt issuance in 2025. The expected proceeds of the future debt issuance were intended to refinance our \$900 million 3.85% Senior Notes due 2025 (“2025 Notes”). During the second quarter of 2021, we de-designated these forward interest rate swaps previously designated as cash flow hedges because we no longer planned to refinance the 2025 Notes and reclassified the \$31 million cumulative gain related to these hedges from accumulated other comprehensive income into earnings as an adjustment to net interest and other within our consolidated statements of income. In September 2021, we fully redeemed these 2025 Notes. During the year ended December 31, 2021, we recorded a total of \$27 million mark-to-market net gain to net interest and other within our consolidated statements of income related to these swaps. In March 2022, we closed these positions and settled the interest rate swaps for proceeds of \$44 million. During the year ended December 31, 2022, we recorded a cumulative \$17 million gain within net interest and other within our consolidated statements of income related to these swaps.

During the second quarter of 2021, we de-designated \$25 million of the \$320 million Houston office cash flow hedges (discussed further in the *Derivatives Designated as Cash Flow Hedges* section below), as the construction cost budget estimate was reduced. These interest rate swap contracts began to settle in January 2022. We closed the \$25 million de-designated hedges in 2022, which resulted in cash proceeds of approximately \$2 million. As of December 31, 2023, the remaining open interest rate swaps for the Houston office (with a notional amount of \$295 million) are still classified as cash flow hedges.

Derivatives Designated as Cash Flow Hedges

During 2019, we entered into forward starting interest rate swaps with a total notional amount of \$320 million to hedge variations in cash flows related to the 1-month LIBOR component of future lease payments of our Houston office. During the second quarter of 2021, we de-designated \$25 million of these hedges as the construction cost budget estimate associated with the project was reduced. During the fourth quarter of 2022, we amended our Houston office lease and forward starting interest rate swaps to transfer from LIBOR to SOFR. As of December 31, 2023, the notional amount of open interest rate swaps for the Houston office is \$295 million.

The Houston office lease commenced in September 2021, however, our first cash lease payment for February 2022 rent was paid in March 2022. The first settlement date for the interest rate swaps was in January 2022. The last swap will mature in September 2026. During the year ended December 31, 2023, the net cash received for the settled interest rate swap positions was \$11 million. During the year ended December 31, 2022, the net cash received/paid for the settled interest swap positions was immaterial. As of December 31, 2023, we expect to reclassify \$9 million gain from accumulated other comprehensive income into the income statement over the next twelve months. See [Note 18](#) for further details regarding Houston office lease.

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The following table presents, by maturity date, information about our interest rate swap agreements, including the fixed weighted average interest rate:

Maturity Date	December 31, 2023		December 31, 2022	
	Aggregate Notional Amount (in millions)	Weighted Average, SOFR	Aggregate Notional Amount (in millions)	Weighted Average, SOFR
September 9, 2026	\$ 295	1.43 %	\$ 295	1.43 %

13. Fair Value Measurements

Fair Values – Recurring

The following tables present assets and liabilities accounted for at fair value on a recurring basis as of December 31, 2023 and 2022 by hierarchy level:

(In millions)	December 31, 2023			
	Level 1	Level 2	Level 3	Total
Derivative instruments, assets				
Commodity ^(a)	\$ —	\$ 24	\$ —	\$ 24
Interest rate - designated as cash flow hedges	—	18	—	18
Derivative instruments, assets	\$ —	\$ 42	\$ —	\$ 42

(In millions)	December 31, 2022			
	Level 1	Level 2	Level 3	Total
Derivative instruments, assets				
Commodity ^(a)	—	10	—	10
Interest rate - designated as cash flow hedges	—	24	—	24
Derivative instruments, assets	\$ —	\$ 34	\$ —	\$ 34

^(a) Derivative instruments are recorded on a net basis in our consolidated balance sheet (See [Note 12](#)).

As of December 31, 2023, our commodity derivatives include three-way collars. These instruments are measured at fair value using either a Black-Scholes or a modified Black-Scholes Model. For three-way collars, inputs to the models include commodity prices 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.

The 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 12](#) for details on the forward starting interest swaps.

Fair Values – Nonrecurring

See [Note 10](#) for detail on our fair values related to impairments.

Fair Values – Financial Instruments

Our current assets and liabilities include financial instruments, the most significant of which are receivables, commercial paper borrowings, the current portion of our long-term debt and payables. We believe the carrying values of our receivables, commercial paper borrowings 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 insignificant bad debt expense, which includes an evaluation of counterparty credit risk.

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The following table summarizes financial instruments, excluding receivables, commercial paper borrowings, payables and derivative financial instruments, and their reported fair values by individual balance sheet line item at December 31, 2023 and 2022:

<i>(In millions)</i>	December 31,			
	2023		2022	
	Fair Value	Carrying Amount	Fair Value	Carrying Amount
Financial assets				
Other noncurrent assets	\$ 9	\$ 27	\$ 10	\$ 28
Total financial assets	\$ 9	\$ 27	\$ 10	\$ 28
Financial liabilities				
Other current liabilities ^(a)	\$ 80	\$ 126	\$ 140	\$ 204
Long-term debt, including current portion ^(b)	4,961	4,997	5,806	5,948
Deferred credits and other liabilities ^(c)	70	71	73	73
Total financial liabilities	\$ 5,111	\$ 5,194	\$ 6,019	\$ 6,225

^(a) Included in the fair value and the carrying value of other current liabilities at December 31, 2022 are \$31 million of current liabilities assumed as a part of our acquisition of the Eagle Ford assets of Ensign during the fourth quarter of 2022. See [Note 4](#) for details on the acquisition.

^(b) Excludes debt issuance costs.

^(c) Included in the fair value and the carrying value of deferred credits and other liabilities at December 31, 2022 are \$58 million of noncurrent liabilities assumed as a part of our acquisition of the Eagle Ford assets of Ensign during the fourth quarter of 2022. See [Note 4](#) for details on the acquisition.

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.

Our fixed rate debt instruments are publicly traded. The fair value of our fixed rate debt is measured using a market approach, based upon quotes from major financial institutions, which are Level 2 inputs. Our floating rate debt is non-public and consists of borrowings under our Term Loan Facility and Revolving Credit Facility. The fair value of our floating rate debt approximates the carrying value and is estimated based on observable market-based inputs, which results in a Level 2 classification.

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14. Debt

Long-term debt

Our long-term debt consists of the following:

<i>(In millions)</i>	December 31,	
	2023	2022
Term Loan Facility due December 2024	\$ 1,200	\$ 1,500
Revolving Credit Facility due 2027	—	450
<i>Senior unsecured notes:</i>		
8.500% notes due 2023	—	70
8.125% notes due 2023	—	131
4.400% notes due 2027 ^(a)	1,000	1,000
6.800% notes due 2032 ^(a)	550	550
6.600% notes due 2037 ^(a)	750	750
5.200% notes due 2045 ^(a)	500	500
<i>Bonds:</i> ^(b)		
2.10% notes due 2037	200	200
2.125% notes due 2037	200	200
2.200% notes due 2037	200	200
2.375% notes due 2037	200	200
4.050% notes due 2037	200	—
2.000% notes due 2037	—	200
Total debt	\$ 5,000	\$ 5,951
Unamortized discount	(3)	(3)
Unamortized debt issuance cost	(19)	(25)
Total debt, net	\$ 4,978	\$ 5,923

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

^(b) Future mandatory purchase dates for these bonds: July 1, 2024 for the 2.10% bonds and 2.125% bonds; July 1, 2026 for the 2.20% bonds, 2.375% bonds, and 4.05% bonds. Subsequent to the various mandatory purchase dates, we will also have the right to convert and remarket these bonds any time up to the 2037 maturity date.

Term Loan Facility

In November 2022, we entered into a term credit agreement, which provides for a two-year \$1.5 billion term loan facility (“Term Loan Facility”) and we borrowed the full amount thereunder in December 2022. Borrowings under the Term Loan Facility can be prepaid without penalty. During the fourth quarter of 2023, we repaid \$300 million of outstanding borrowings. As of December 31, 2023, we had \$1.2 billion in borrowings remaining under our Term Loan Facility with an interest rate of 7.21%.

The Term Loan Facility includes a covenant requiring our total debt to total capitalization ratio not to exceed 65% as of the last day of each fiscal quarter. In the event of a default, the lenders holding more than half of the commitments may terminate all of the commitments under the Term Loan Facility and require the immediate repayment of all outstanding borrowings under the Term Loan Facility. As of December 31, 2023, we were in compliance with this covenant with a ratio of 25%.

Revolving Credit Facility

In 2022, we executed the seventh amendment to our unsecured revolving credit facility (the “Revolving Credit Facility”). The primary changes to the Revolving Credit Facility effected by this amendment were to (i) extend the maturity date of the Revolving Credit Facility by three years to July 28, 2027, (ii) decrease the size of the Revolving Credit Facility from \$3.1 billion to \$2.5 billion, (iii) replace the LIBOR interest rate benchmark with SOFR and (iv) implement certain revisions to the Pricing Schedule.

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In September 2023, we increased our \$2.5 billion Revolving Credit Facility by \$61 million to a total of \$2.6 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. We have the option to increase the commitment amount by up to an additional \$939 million, subject to the consent of any increasing lenders. The Revolving Credit Facility maturity remains July 28, 2027.

During the third quarter of 2023, we utilized commercial paper borrowings to fully repay the \$450 million of outstanding borrowings against our \$2.6 billion Revolving Credit Facility.

The Revolving Credit Facility includes a covenant requiring our total debt to total capitalization ratio not to exceed 65% as of the last day of each fiscal quarter. In the event of a default, the lenders holding more than half of the commitments may terminate the commitments under the Revolving Credit Facility and require the immediate repayment of all outstanding borrowings and the cash collateralization of all outstanding letters of credit under the Revolving Credit Facility. As of December 31, 2023, we were in compliance with this covenant with a ratio of 25%.

Commercial Paper Program

Pursuant to our commercial paper program, we may issue unsecured notes in a maximum aggregate face amount of \$2.5 billion outstanding at any time, with maturities up to 365 days from the date of issuance. Our \$2.5 billion commercial paper program is backed by our \$2.6 billion Revolving Credit Facility.

During the third and fourth quarters of 2023, we utilized our recently established commercial paper program to fund various short-term working capital requirements. As of December 31, 2023, we had \$450 million of outstanding commercial paper maturing at various dates with a weighted average interest rate of 6.10%.

Debt redemption

We repaid the following in connection with their maturity date: \$32 million 9.375% Senior Notes in May 2022, \$70 million 8.5% Senior Notes in March 2023, and \$131 million 8.125% Senior Notes in July 2023.

Debt remarketing

On April 3, 2023, we closed a \$200 million remarketing to investors of sub-series 2017A-1 bonds that are part of the \$1 billion St. John the Baptist Parish, State of Louisiana revenue refunding bonds Series 2017. The bonds are subject to an interest rate of 4.05% and a mandatory purchase date of July 1, 2026. The repayments and new borrowings associated with the remarketed bonds are presented separately within Debt repayments and Borrowings, respectively, within the Consolidated Statements of Cash Flows.

Long-term debt maturity

As of December 31, 2023, maturities of long-term debt over the next five years, excluding interest to be accrued, were as follows:

(In millions)

2024	\$	1,600
2025		—
2026		600
2027		1,000
2028		—
Thereafter		1,800
Total long-term debt, including current portion	\$	5,000

15. Stockholders' Equity

Our Board of Directors has authorized a share repurchase program. During 2023, we repurchased 58 million shares of our common stock pursuant to the share repurchase program at a cost of \$1.5 billion. In November 2023, our Board of Directors increased our share repurchase authorization to \$2.5 billion, and the total remaining authorization was approximately \$2.3 billion at December 31, 2023. During 2022, we repurchased 113 million shares of our common stock pursuant to the share repurchase program at a cost of \$2.8 billion. During 2021, we repurchased approximately 46 million of shares of our common stock pursuant to the share repurchase program at a cost of \$724 million. Purchases under our share repurchase program are made at our discretion and may be in either open market transactions, including block purchases, or in privately negotiated transactions using cash on hand, cash generated from operations or proceeds from potential asset sales. This program may be changed based upon our financial condition or changes in market conditions and is subject to termination prior to completion.

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16. Incentive Based Compensation

Description of stock-based compensation plans – The Marathon Oil Corporation 2019 Incentive Compensation Plan (the “2019 Plan”) was approved by our stockholders in May 2019 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), performance unit awards and cash awards to employees. The 2019 Plan also allows us to provide equity compensation to our non-employee directors. No more than 27.9 million shares of our common stock may be issued under the 2019 Plan. In connection with the granting of an award under the 2019 Plan, the number of shares available for issuance under the 2019 Plan will be reduced by one share for each share of our common stock in respect of which the award is granted, except the awards that by their terms do not permit settlement in shares of our common stock will not reduce the number of shares of common stock available for issuance under the 2019 Plan.

Shares subject to awards under the 2019 Plan that are forfeited, terminated or expire unexercised become available for future grants. In addition, the number of shares of our common stock reserved for issuance under the 2019 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 2019 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 2019 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 last granted stock options under the 2019 Plan in 2020. 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, 2023, there are no SARs outstanding.

Restricted stock – We last granted restricted stock under the 2019 Plan in 2020. The restricted stock awards granted to officers generally vested three years from the date of grant, contingent on the recipient’s continued employment. We also granted 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 vested ratably over a three-year period from the date of grant, contingent on the recipient’s continued employment. Prior to vesting, all restricted stock recipients had the right to vote such stock and receive dividends thereon. The non-vested shares of restricted stock were not transferable and were held by our transfer agent. At December 31, 2023, there are no restricted stock awards outstanding.

Stock-based performance unit awards – We grant stock-based performance units to officers under the 2019 Plan.

During 2023, we granted 222,464 stock-based performance units to eligible officers, which are settled in shares. The grant date fair value per unit was \$32.97, as calculated using a Monte Carlo valuation model. At the grant date, each unit represents the value of one share of our common stock. These units are settled in shares, and the number of shares of our common stock to be paid is based on the vesting percentage, which can be from 0% to 200% based on performance achieved during a three-year performance period and as determined by the Compensation Committee of the Board of Directors (“Compensation Committee”). The performance goals are tied to our total shareholder return (“TSR”) as compared to TSR for a group, which is determined by the Compensation Committee and includes peer companies, the S&P Energy Index and the S&P 500 Index. Also, dividend equivalents accrue during the performance period and will be paid in cash following the end of the performance period based on the amount of dividends credited on shares of our common stock over the performance period multiplied by the number of units that vest.

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During 2023, we granted 222,464 stock-based performance unit awards to eligible officers, which are settled in cash. At the grant date for these stock-based performance units, each unit represents the value of one share of our common stock. The benefit amount to be paid is based on the product of (i) the number of units granted, (ii) the vesting percentage and (iii) the average daily closing price of our common stock during the final 30 calendar days ending on the last trading day of the performance period, subject to the banking feature described below. The vesting percentage can range from 0% to 200%, which is based on performance achieved over a two-year performance period. The performance metric is a predetermined amount of cumulative free cash flow, as defined by the award agreement, generated by the Company over the performance period. The units have a banking feature whereby the stock price valuation and vesting percentage are fixed at no less than 50%, and then again at 100%, if achieved during the performance period. Once those milestones are reached, the vesting percentage will not fall below those banked percentage amounts even if cumulative free cash flow subsequently declines during the performance period, subject to the Compensation Committee's discretion as described below. Dividend equivalents accrue during the performance period and will be paid in cash following the end of the performance period based on the amounts of dividends credited on shares of our common stock over the performance period multiplied by the number of units that vest. As of December 31, 2023, the fair value of each cash-settled performance unit was \$24.57. As set forth in the award agreement terms, the Compensation Committee retains discretion to reduce the vesting percentage and any bank values and determine free cash flow achievement for these awards.

Restricted stock units – We maintain an equity compensation program for our non-employee directors. All non-employee directors receive annual grants of common stock units. For units granted between 2012 and 2020, common shares generally vested following completion of board service or three years from the date of grant, whichever was earlier. For units granted in 2021 and forward, common shares will generally vest following completion of board services or one year from the date of grant, whichever is earlier. However, for any units granted in 2017 or later, our non-employee directors may elect to defer settlement of their common stock units until after they cease serving on the Board. Under the 2019 Plan, we also grant restricted stock units to officers, which, depending on grant agreement terms, generally vest three years from the date of the grant or vest ratably over a three-year period and restricted stock units to certain non-officer employees, which generally vest ratably over a three-year period. Both awards are contingent on the recipient's continued employment. Grants of restricted stock units to these non-officer employees are generally 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 \$49 million, \$50 million and \$43 million in 2023, 2022 and 2021, respectively. The total related income tax benefit was \$11 million for both 2023 and 2022, respectively. Due to the full valuation allowance on our net federal deferred tax assets in 2021, we did not recognize a tax benefit in the consolidated statement of income during 2021. Cash received upon exercise of stock option awards was \$3 million in 2023, \$32 million in 2022, and \$5 million in 2021. The total related income tax benefit was \$1 million and \$7 million for 2023 and 2022, respectively. Due to the full valuation allowance on our net federal deferred tax assets in 2021, we did not recognize a tax benefit for deductions for stock awards settled during 2021.

Stock option awards – The following is a summary of stock option award activity in 2023:

	Number of Shares	Weighted Average Exercise Price	Weighted Average Remaining Contractual Term	Aggregate Intrinsic Value (in millions)
Outstanding at beginning of year	1,678,524	\$ 28.86		
Granted	—	—		
Exercised	(262,153)	10.47		
Canceled	(412,067)	34.44		
Outstanding at end of year	1,004,304	\$ 31.38	1 year	\$ 1
Exercisable at end of year	1,004,304	\$ 31.38	1 year	\$ 1
Expected to vest	—	\$ —	0 years	\$ —

The intrinsic value of stock option awards exercised was \$4 million in 2023, \$23 million in 2022, and \$3 million in 2021.

As of December 31, 2023, unrecognized compensation cost related to stock option awards was immaterial.

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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 2023:

	Awards (in shares)	Weighted Average Grant Date Fair Value
Unvested at beginning of year	4,651,196	\$ 14.89
Granted	1,852,885	25.77
Vested	(2,785,495)	12.58
Canceled	(204,181)	21.64
Unvested at end of year	3,514,405	\$ 22.07

The vesting date fair value of restricted stock awards and restricted stock units which vested during 2023, 2022 and 2021 was \$35 million, \$34 million and \$39 million, respectively. The weighted average grant date fair value of restricted stock awards was \$22.07, \$14.89 and \$10.98 for awards unvested at December 31, 2023, 2022 and 2021, respectively.

As of December 31, 2023, there was \$42 million of unrecognized compensation cost related to restricted stock awards and restricted stock units, which is expected to be recognized over a weighted average period of 1 year.

Stock-based performance unit awards – During 2023, 2022 and 2021, we granted 222,464, 167,043 and 307,473 stock-based performance unit awards to be settled in shares to officers. At December 31, 2023, there were 686,266 units outstanding. During 2023, 2022 and 2021, we also granted 222,464, 167,043 and 307,473 stock-based performance unit awards to be settled in cash to officers. At December 31, 2023, there were 389,507 units outstanding. Total stock-based performance unit awards expense was \$12 million, \$18 million and \$11 million in 2023, 2022 and 2021, respectively.

The key assumptions used in the Monte Carlo simulation to determine the grant date fair value of stock-based performance units granted in 2023, 2022 and 2021 were:

	2023	2022	2021
Valuation date stock price	\$ 25.79	\$ 22.89	\$ 11.20
Expected annual dividend yield	1.5 %	1.2 %	1.1 %
Expected volatility	58 %	73 %	71 %
Risk-free interest rate	4.5 %	1.4 %	0.3 %
Fair value of stock-based performance units outstanding	\$ 32.97	\$ 34.07	\$ 18.07

17. Equity Method Investments

During 2023, 2022 and 2021 our equity method investees were considered related parties. Our investment in our equity method investees are summarized in the following table:

(In millions)	Ownership as of		December 31,	
	December 31, 2023		2023	2022
EGHoldings ^(a)	56%	\$	118	\$ 287
Alba Plant LLC ^(b)	52%		153	155
AMPCO ^(c)	45%		162	135
Total		\$	433	\$ 577

^(a) EGHoldings is engaged in LNG production activity.

^(b) Alba Plant LLC processes LPG.

^(c) AMPCO is engaged in methanol production activity.

In accordance with agreements related to the processing of third-party Alen Unit gas at EG LNG, additional equity was issued to an equity partner, which is an E.G. government entity, during the fourth quarter of 2021, thereby reducing our ownership interest in EGHoldings from 60% to 56%. As a result, for the year ended December 31, 2021, we recorded a \$12 million pre-tax loss, which was reflected in Net gain (loss) on disposal of assets in our consolidated statements of income.

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As a result of historical impairments to an equity method investee, we incurred a basis differential of \$140 million between the net book value of our investment and the amount of our underlying share of equity in the investee's net assets. As of December 31, 2023 and 2022, the amount of this basis differential was \$66 million and \$88 million, respectively, which includes the effects of accretion in both periods. The basis differential is being accreted into income over the remaining useful life of the investee's primary assets. During 2023, 2022, and 2021, we accreted \$22 million, \$24 million, and \$22 million, respectively, into Income from equity method investments in our consolidated statements of income.

Summarized, 100% combined financial information for equity method investees is as follows:

<i>(In millions)</i>	2023	2022	2021
Income data – year:			
Revenues and other income	\$ 906	\$ 1,745	\$ 1,095
Income from operations	363	1,164	537
Net income	305	1,068	440
Balance sheet data – December 31:			
Current assets	\$ 534	\$ 842	
Noncurrent assets	611	698	
Current liabilities	183	269	
Noncurrent liabilities	167	188	

Revenues from related parties were \$23 million, \$28 million and \$30 million in 2023, 2022 and 2021, respectively, with the majority related to EGHoldings in all years.

Cash received from equity investees is classified as dividends or return of capital on the Consolidated Statements of Cash Flows. Dividends from equity method investees are reflected in the Operating activities section in Equity Method Investments, net while return of capital is reflected in the Investing activities section. Dividends and return of capital received by us during the years ended December 31, 2023, 2022 and 2021 totaled \$329 million, \$486 million, and \$238 million, respectively.

Current receivables from related parties at December 31, 2023 and December 31, 2022 were \$24 million and \$36 million, respectively, which primarily related to Alba Plant LLC and EGHoldings in both periods. Payables to related parties at December 31, 2023 were \$6 million, primarily related to EGHoldings. Payables to related parties at December 31, 2022 were \$20 million, which primarily related to Alba Plant LLC.

18. Leases

Lessee

Operating Leases

We enter into various lease agreements to support our operations including drilling rigs, well fracturing equipment, compressors, buildings, vessels, vehicles and miscellaneous field equipment. We primarily act as a lessee in these transactions and the majority of our existing leases are classified as either short-term or long-term operating leases.

Our drilling rig agreements are classified as either short-term or long-term leases based on the noncancellable period for which we have the right to use the equipment and assessment of options present in each agreement. We also incur variable lease costs under these agreements primarily related to various additional on-demand equipment and labor. The lease costs associated with the drilling rigs are primarily capitalized as part of the well costs.

Our existing long-term leases are comprised of compressors, drilling rigs, vessels, vehicles and miscellaneous field equipment. Our lease agreements may require both fixed and variable payments; none of the variable payments are rate or index-based, therefore only fixed payments were considered for recognizing lease liabilities and right-of-use ("ROU") assets related to long-term leases. Also, based on our election not to separate the lease and nonlease components, fixed payments related to equipment, crew and other nonlease components are included in the initial measurement of lease liabilities and ROU assets for all asset classes, except for vessels. For vessels, the contractual consideration was allocated between lease and nonlease components based on estimates provided by service providers.

Our leased assets may be used in joint oil and gas operations with other working interest owners. We recognize lease liabilities and ROU assets only when we are the signatory to a contract as an operator of joint properties. Such lease liabilities and ROU assets are determined based on gross contractual obligations. As we use the leased assets for joint operations, we have the contractual right to recover the other working interest owners' share of lease costs. As a result, our lease costs are presented on a net basis, reduced for any costs recoverable from other working interest owners.

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Finance Leases

In 2018, we signed an agreement with an owner/lessor to construct and lease a new build-to-suit office building in Houston, Texas. The initial lease term is five years and commenced in September 2021 after the new Houston office was ready for occupancy. In March 2022, we made our first cash lease payment. During the years ended December 31, 2023, and 2022, we have made cash lease payments totaling approximately \$22 million and \$11 million, respectively. At the end of the initial lease term, we can negotiate to extend the lease term for an additional five years, subject to the approval of the participants; purchase the property subject to certain terms and conditions; or remarket the property to an unrelated third party. The lease contains a residual value guarantee of 100% of the total acquisition and construction costs.

Balance Sheet Information

Balance sheet information related to ROU assets and lease liabilities was as follows:

<i>(In millions)</i>		December 31,	
		2023	2022
ROU assets:	Balance Sheet Location:		
Operating leases ^(a)	Other noncurrent assets	\$ 225	\$ 123
Finance leases	Other noncurrent assets	18	24
Total ROU assets		<u>\$ 243</u>	<u>\$ 147</u>
Lease liabilities:			
Current liabilities			
Operating leases	Other current liabilities	\$ 109	\$ 94
Finance leases	Other current liabilities	7	6
Noncurrent liabilities			
Operating leases ^(a)	Deferred credits and other liabilities	120	32
Finance leases	Deferred credits and other liabilities	12	18
Total lease liabilities		<u>\$ 248</u>	<u>\$ 150</u>

^(a) As of December 31, 2023, our noncurrent operating ROU asset and lease liability balances increased by \$102 million and \$88 million, respectively, when compared to the prior year ending balances. The increase is primarily a result of entering into long-term leases for compressors in certain operating areas.

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Statements of Income Information

The table below presents our net lease costs for the years ended December 31, 2023, 2022 and 2021:

<i>(In millions)</i>	December 31,		
	2023	2022	2021
Operating lease costs:			
Short-term lease costs ^(a)	\$ 76	\$ 164	\$ 121
Long-term lease costs ^(b)	120	74	64
Variable lease costs ^(c)	24	37	33
Finance lease costs:			
Amortization of ROU assets	6	4	3
Total lease costs	\$ 226	\$ 279	\$ 221
Other information:			
Cash paid for amounts included in the measurement of operating lease liabilities	\$ 149	\$ 90	\$ 73
ROU assets obtained in exchange for new operating lease liabilities ^(d)	56	117	15
ROU assets obtained in exchange for new finance lease liabilities ^(e)	—	—	28
Changes to ROU assets resulting from modifications or cancellations of operating leases	\$ 179	\$ 40	\$ (13)

^(a) Represents our net share of lease costs arising from leases of less than one year but longer than one month that were not included in the lease liability.

^(b) Represents our net share of the ROU asset amortization and the interest expense.

^(c) Represents our net share of variable lease payments that were not included in the lease liability.

^(d) Represents the cumulative value of operating lease ROU assets recognized at lease inception and is amortized as the ROU asset is utilized.

^(e) Represents the cumulative value of finance lease ROU assets recognized at lease inception and is amortized as the ROU asset is utilized.

Annual Lease Maturities

The remaining annual undiscounted cash flows associated with long-term leases and the reconciliation of these cash flows to the lease liabilities recognized on the consolidated balance sheet is summarized below:

<i>(In millions)</i>	Operating Lease Obligations	Finance Lease Obligations	Total Lease Obligations
2024	\$ 123	\$ 7	\$ 130
2025	67	7	74
2026	55	6	61
2027	1	—	1
2028	—	—	—
Thereafter	—	—	—
Total undiscounted lease payments	\$ 246	\$ 20	\$ 266
Less: amount representing interest	17	1	18
Total lease liabilities	\$ 229	\$ 19	\$ 248
Less: current portion of lease liability as of December 31, 2023	109	7	116
Long-term lease liability as of December 31, 2023	\$ 120	\$ 12	\$ 132

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Other Information

We use our periodic incremental borrowing rate to discount future contractual payments to their present values. For our operating leases, the weighted average lease term is two years, and the discount rate is 5.72% as of December 31, 2023. For our finance leases, the weighted-average remaining lease term is three years, and the discount rate is 2.23% as of December 31, 2023.

Lessor

Our wholly owned subsidiary, MEGPL, is a lessor for residential housing in E.G., which is occupied by EGHoldings, a related party equity method investee – see **Note 17**. The lease was classified as an operating lease and expires in 2024, with a lessee option to extend through 2034. Lease payments are fixed for the entire duration of the agreement at approximately \$6 million per year. Our lease income is reported in other income in our consolidated statements of income for all periods presented. The undiscounted cash flows to be received under this lease agreement are summarized below:

<i>(In millions)</i>	Operating Lease Future Cash Receipts	
2024	\$	6
2025		6
2026		6
2027		6
2028		6
Thereafter		36
Total undiscounted cash flows	\$	66

19. Credit Losses

The majority of our receivables are from purchasers of commodities or joint interest owners in properties we operate, both of which are recorded at estimated or invoiced amounts and do not bear interest. The majority of these receivables have payment terms of 30 days or less. At the end of each reporting period, we assess the collectability of our receivables and estimate the expected credit losses using historical data, current market conditions and reasonable and supportable forecasts of future economic conditions and other data as deemed appropriate.

We are exposed to credit losses through the receivables generated from sales of crude oil, NGLs and natural gas to our customers. When dealing with the commodity purchasers, we conduct a credit review to assess each counterparty's ability to pay. The credit review considers our expected billing exposure, timing for payment and the counterparty's established credit rating with the rating agencies or our internal assessment of the counterparty's creditworthiness based on our analysis of their financial statements. Our evaluation also considers contract terms and other factors, such as country and/or political risk. A credit limit is established for each counterparty based on the outcome of this review. We may require a bank letter of credit or a prepayment to mitigate credit risk. We monitor our ongoing credit exposure through active review of counterparty balances against contract terms and due dates. The expected credit losses related to receivables with the commodity purchasers were determined using the weighted average probability of default method. We also collect revenues from our non-operated joint properties where other oil and gas exploration and production companies operate the properties and market our share of production and remit payments to us. The current expected credit losses related to these receivables were determined using the loss rate method applied to aging pools.

We are exposed to credit losses from joint interest billings to other joint interest owners for properties we operate. For this group of receivables, the expected credit losses are determined using the loss rate method applied to aging pools. Our counterparties in this group include numerous large, mid-size and small oil and gas exploration and production companies. Although we may have the ability to withhold future revenue disbursements to recover any non-payment of joint interest billings or require a prepayment of future costs through cash calls, our credit loss exposure with this group is more significant due to inherent ownership or billing adjustments. Also, some of our counterparties may experience liquidity problems and may not be able to meet their financial obligations to us.

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Changes in the reserve for credit losses balance for the year were as follows:

<i>(In millions)</i>	December 31,	
	2023	2022
Beginning balance as of January 1	\$ 10	\$ 15
Current period provision	3	(3)
Current period write offs	(2)	(2)
Recoveries of amounts previously reserved	(1)	—
Ending balance as of December 31	\$ 10	\$ 10

20. Defined Benefit Postretirement Plans and Defined Contribution Plan

We have noncontributory defined benefit pension plans covering substantially all domestic employees. Benefits under these plans are based on plan provisions specific to each plan.

We also have 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. 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	
	2023	2022	2023	2022
Accumulated benefit obligation	\$ 226	\$ 214	\$ 50	\$ 53
Change in pension benefit obligations:				
Beginning balance	\$ 218	\$ 269	\$ 53	\$ 73
Service cost	15	14	—	—
Interest cost	10	7	3	2
Actuarial (gain) loss	10	(46)	1	(11)
Settlements paid	(3)	(21)	—	—
Benefits paid	(18)	(5)	(7)	(11)
Ending balance	\$ 232	\$ 218	\$ 50	\$ 53
Change in fair value of plan assets:				
Beginning balance	\$ 161	\$ 192	\$ —	\$ —
Actual return on plan assets	13	(27)	—	—
Employer contributions	25	22	7	11
Settlements paid	(3)	(21)	—	—
Benefits paid	(18)	(5)	(7)	(11)
Ending balance	\$ 178	\$ 161	\$ —	\$ —
Funded status of plans at December 31	\$ (54)	\$ (57)	\$ (50)	\$ (53)
Amounts recognized in the consolidated balance sheets:				
Current liabilities	\$ (3)	\$ (3)	\$ (8)	\$ (8)
Noncurrent liabilities	(51)	(54)	(42)	(45)
Accrued benefit cost	\$ (54)	\$ (57)	\$ (50)	\$ (53)
Pretax amounts in accumulated other comprehensive loss:				
Net loss	\$ 28	\$ 24	\$ 11	\$ 11
Prior service credit	(2)	(8)	(49)	(65)

In 2023, the pension plans and the postretirement plans both experienced a net actuarial loss due to the mid-year census data update.

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Components of net periodic benefit costs 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,		
	2023	2022	2021	2023	2022	2021
Components of net periodic benefit costs:						
Service cost	\$ 15	\$ 14	\$ 16	\$ —	\$ —	\$ —
Interest cost	10	7	7	3	2	2
Expected return on plan assets	(8)	(8)	(8)	—	—	—
Amortization:						
- prior service credit	(6)	(6)	(6)	(16)	(16)	(16)
- actuarial loss	1	2	5	1	2	2
Net settlement loss ^(a)	1	2	9	—	—	—
Net periodic benefit cost (credit) ^(b)	\$ 13	\$ 11	\$ 23	\$ (12)	\$ (12)	\$ (12)
Other changes in plan assets and benefit obligations recognized in other comprehensive (income) loss (pretax):						
Actuarial loss (gain)	\$ 6	\$ (10)	\$ (21)	\$ 1	\$ (10)	\$ 1
Settlement loss and amortization of actuarial loss	(2)	(4)	(14)	(1)	(2)	(2)
Curtailement gain and amortization of prior service credit	6	6	6	16	16	16
Total recognized in other comprehensive (income) loss	\$ 10	\$ (8)	\$ (29)	\$ 16	\$ 4	\$ 15
Total recognized in net periodic benefit cost and other comprehensive (income) loss	\$ 23	\$ 3	\$ (6)	\$ 4	\$ (8)	\$ 3

^(a) Settlements are recognized as they occur, once it is probable that lump sum payments from a plan for a given year will exceed the plan's total service and interest costs for that year.

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

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 2023, 2022 and 2021:

	Pension Benefits			Other Benefits		
	2023	2022	2021	2023	2022	2021
Weighted average assumptions used to determine benefit obligation:						
Discount rate	4.94 %	5.20 %	2.83 %	4.87 %	5.07 %	2.48 %
Rate of compensation increase ^(a)	5.50 %	5.00 %	0.50 %	5.50 %	5.00 %	0.50 %
Cash balance interest crediting	3.94 %	4.20 %	3.00 %	— %	— %	— %
Weighted average assumptions used to determine net periodic benefit cost:						
Discount rate	5.20 %	4.02 %	2.77 %	5.07 %	2.48 %	2.02 %
Expected long-term return on plan assets	6.00 %	5.75 %	5.75 %	— %	— %	— %
Rate of compensation increase ^(a)	5.50 %	5.00 %	0.50 %	5.50 %	5.00 %	0.50 %
Cash balance interest crediting	4.20 %	3.60 %	3.00 %	— %	— %	— %

^(a) The assumed rate of compensation increase is 4.50% for 2024 and future years.

Expected long-term return on plan assets – The expected long-term return on plan assets assumption for our pension plan is determined based on an internally developed asset rate-of-return modeling tool, which utilizes underlying assumptions based on actual and forward-looking expected market returns by asset category and inflation and takes into account our pension plan's asset allocation. The expected return for each asset category is then weighted based on the actual and targeted asset allocation to develop the overall expected long-term return on plan assets assumption.

Assumed weighted average health care cost trend rates – The pre-65 retiree medical coverage subsidy was frozen as of January 1, 2019, and the ability for retirees to opt in and out of this coverage, as well as pre-65 retiree dental and vision coverage, was also eliminated. Retirees must enroll in connection with retirement for such coverage, or they lose eligibility. Annual costs associated with the pre-65 retiree medical coverage were immaterial for all periods presented.

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Plan investment policies and strategies – The investment policies for our pension plan assets reflect the funded status of the plan 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.

Pension 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.

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, 2023 and 2022.

Cash and cash equivalents – Cash and cash equivalents are valued using a market approach and are considered Level 1.

Equity securities – Investments in common stock 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, determined using a combination of market, income and cost approaches, plus working capital, adjusted for liabilities, currency translation and estimated performance incentives. These private equity investments are considered Level 3.

Other – Other investments are comprised of an unallocated annuity contract, two limited liability companies and real estate. All are considered Level 3, as significant inputs to determine fair value are unobservable.

Commingled funds – The investment in the commingled funds are valued using the net asset value of units held as a practical expedient. The commingled funds consist of equity and fixed income portfolios with underlying investments held in U.S. and non-U.S. securities.

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, 2023 and 2022:

<i>(In millions)</i>	December 31, 2023			
	Level 1	Level 2	Level 3	Total
Cash and cash equivalents	\$ 1	\$ —	\$ —	\$ 1
Equity securities:				
Common stock	—	—	—	—
Private equity	—	—	3	3
Other	—	—	9	9
Total investments, at fair value	1	—	12	13
Commingled funds ^(a)	—	—	—	165
Total investments	\$ 1	\$ —	\$ 12	\$ 178

<i>(In millions)</i>	December 31, 2022			
	Level 1	Level 2	Level 3	Total
Cash and cash equivalents	\$ 8	\$ —	\$ —	\$ 8
Equity securities:				
Common stock	22	—	—	22
Private equity	—	—	5	5
Other	—	—	10	10
Total investments, at fair value	30	—	15	45
Commingled funds ^(a)	—	—	—	116
Total investments	\$ 30	\$ —	\$ 15	\$ 161

^(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.

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The activity during the year ended December 31, 2023 and 2022, for the assets using Level 3 fair value measurements was immaterial.

Cash flows

Estimated future benefit payments – The following gross benefit payments, which were estimated based on actuarial assumptions applied at December 31, 2023 and reflect expected future services, as appropriate, are to be paid in the years indicated:

<i>(In millions)</i>	Pension Benefits		Other Benefits	
2024	\$	29	\$	7
2025		27		7
2026		25		6
2027		25		5
2028		24		5
2029 through 2033	\$	113	\$	18

Contributions to defined benefit plans – We expect to make contributions to the funded pension plan of up to \$18 million in 2024. Cash contributions to be paid from our general assets for the unfunded portion of our pension and postretirement plans are expected to be approximately \$3 million and \$7 million in 2024.

Contributions to defined contribution plans – We contribute to several defined contribution plans for eligible employees. Contributions to these plans totaled \$14 million, \$12 million, and \$13 million in 2023, 2022, and 2021, respectively.

21. Reclassifications Out of Accumulated Other Comprehensive Income

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

<i>(In millions)</i>	Year Ended December 31,		Income Statement Line
	2023	2022	
Postretirement and postemployment plans			
Amortization of prior service credit	\$ 22	\$ 22	Other net periodic benefit credits
Amortization of actuarial loss	(2)	(4)	Other net periodic benefit credits
Net settlement loss	(1)	(2)	Other net periodic benefit credits
Income tax	(4)	(3)	Provision for income taxes
Total reclassifications, net of tax	\$ 15	\$ 13	Net income

22. Supplemental Cash Flow Information

<i>(In millions)</i>	Year Ended December 31,		
	2023	2022	2021
Included in operating activities:			
Interest paid ^(a)	\$ 329	\$ 197	\$ 231
Income taxes paid, net of refunds	106	173	24
Noncash investing activities:			
Increase in asset retirement costs	\$ 19	\$ 30	\$ 56

^(a) The increase during the twelve months ended December 31, 2023 compared to the same period in 2022 and 2021 was primarily related to interest paid on borrowings under the Term Loan Facility and Revolving Credit Facility.

Other noncash investing activities include accrued capital expenditures for the years December 31, 2023, 2022 and 2021 of \$86 million, \$111 million and \$81 million, respectively. Additionally, we assumed certain liabilities related to our acquisition of the Eagle Ford assets of Ensign in December 2022. See [Note 4](#) for further details related to the acquisition.

MARATHON OIL CORPORATION
Notes to Consolidated Financial Statements

23. Net Interest and Other

<i>(In millions)</i>	Year Ended December 31,		
	2023	2022	2021
Interest:			
Interest income	\$ 7	\$ 15	\$ 1
Interest expense ^(a)	(343)	(227)	(257)
Gain on interest rate swaps	1	19	54
Total interest	(335)	(193)	(202)
Other:			
Other	(17)	5	14
Net interest and other	\$ (352)	\$ (188)	\$ (188)

^(a) The increase in interest expense during the twelve months ended December 31, 2023 compared to the same period in 2022 and 2021 was primarily related to interest paid on borrowings under the Term Loan Facility and Revolving Credit Facility.

24. Commitments and Contingencies

Various groups, including the State of North Dakota and the Mandan, Hidatsa and Arikara Nation or MHA Nation, also known as the Three Affiliated Tribes of the Fort Berthold Indian Reservation (the “Three Affiliated Tribes”) represented by the Bureau of Indian Affairs (the “BIA”), have been involved in a dispute regarding the ownership of certain lands underlying the Missouri River and Little Missouri River (the “Disputed Land”) from which we currently produce. As a result, as of December 31, 2023, we have a \$119 million current liability in suspended royalty and working interest revenue, including interest, of which \$103 million was included within accounts payable and \$16 million related to accrued interest and was included within other current liabilities on our consolidated balance sheet. Additionally, we have a long-term receivable of \$26 million for capital and expenses. To address a potential dispute with the Three Affiliated Tribes over the validity of certain of our leases, in 2023 Marathon Oil entered into an agreement pursuant to which we paid an amount representing \$50 million of the suspended royalties (inclusive of interest thereon) to the Three Affiliated Tribes. The agreement allows Marathon Oil to recover all funds paid to the Three Affiliated Tribes (including by offsetting against production from other minerals leased to Marathon Oil by the Three Affiliated Tribes) if a court ultimately determines that the Disputed Land is not held in trust for the Three Affiliated Tribes, but instead is owned by the State of North Dakota. The United States Department of the Interior (“DOI”) has addressed the United States’ position with respect to this dispute several times in recent years with conflicting opinions. In January 2017, the DOI issued an opinion that the Disputed Land is held in trust for the Three Affiliated Tribes, then in June 2018 and May 2020 the DOI issued opinions concluding that the State of North Dakota held title to the Disputed Land. Most recently, on February 4, 2022, the DOI issued an opinion (“M-Opinion”) concluding that the Disputed Land is held in trust for the Three Affiliated Tribes. While the M-Opinion is binding on all agencies within the DOI, it is not legally binding on third parties, including Marathon Oil, the State of North Dakota, or a court. Given the uncertainty in matters such as these, we are unable to predict the ultimate outcome of this matter at this time; however, we believe the resolution of this matter will not have a material adverse effect on our consolidated financial position, results of operations or cash flows.

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. In addition, we may also be subject to retained liabilities with respect to certain divested assets by operation of law. For example, we are exposed to the risk that owners and/or operators of assets purchased from us become unable to satisfy plugging or abandonment obligations that attach to those assets. In that event, due to operation of law, we may be required to assume plugging or abandonment obligations for those assets. Although we have established reserves for such liabilities, we could be required to accrue additional amounts in the future and these amounts could be material.

Marathon Oil was named in a lawsuit alleging improper royalty deductions in certain of our Oklahoma operations, and after plaintiffs lost their attempt to certify a class action, a settlement was reached, and in the first quarter of 2023 such settlement was approved by the court and paid.

MARATHON OIL CORPORATION

Notes to Consolidated Financial Statements

We have received Notices of Violations (“NOVs”)’s from the EPA related to alleged violations of the Clean Air Act with respect to our operations on the Fort Berthold Indian Reservation between 2015 and 2019. We continue to actively negotiate a draft consent decree with the EPA and Department of Justice. The resolution of the enforcement action will likely include monetary sanctions, for which we maintain an accrual of our estimate, and implementation of both environmental mitigation projects and injunctive terms, which would increase both our development costs and operating costs. Through the date of this filing, we are unable to estimate the full financial impact associated with this matter, as there exists substantial uncertainty as to the ultimate result of this matter and it is reasonably possible the result could be materially different from our expectations and our accrual.

We have received NOVs from the EPA relating to alleged Clean Air Act violations following flyovers conducted in 2020 and 2022 over certain of our oil and gas facilities in New Mexico. The notices involve alleged emission and permitting violations. We initiated discussions with the EPA to resolve these matters. At this time, we are unable to estimate the potential loss associated with these matters, however, it is reasonably possible that resolution of these matters may result in a fine or penalty in excess of \$300,000.

We have incurred and will continue to incur 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 offset by the prices we receive for 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. 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, 2023 and 2022, accrued liabilities for remediation relating to environmental laws and regulations were not material. 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 – 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 precedent upon which we could base a reasonable prediction of the outcome.

In the second quarter of 2019, MEGPL, a consolidated and wholly owned subsidiary, signed a series of agreements to process third-party Alen Unit gas through existing infrastructure located in Punta Europa, E.G. Our equity method investee, Alba Plant LLC, is also a party to some of the agreements. These agreements require (subject to certain limitations) MEGPL to indemnify the owners of the Alen Unit against injury to Alba Plant LLC’s personnel and damage to or loss of Alba Plant LLC’s automobiles, as well as third party claims caused by Alba Plant LLC and certain environmental liabilities arising from certain hydrocarbons in the custody of Alba Plant LLC. At this time, we cannot reasonably estimate this obligation as we do not have any history of prior indemnification claims or environmental discharge or contamination. Therefore, we have not recorded a liability with respect to these indemnities since the amount of potential future payments under these indemnification clauses is not determinable.

The agreements to process the third-party Alen Unit gas required the execution of third-party guarantees by Marathon Oil Corporation in favor of the Alen Unit’s owners. Two separate guarantees were executed during the second quarter of 2020; one for a maximum of approximately \$91 million pertaining to the payment obligations of Equatorial Guinea LNG Operations, S.A. and another for a maximum of \$25 million pertaining to the payment obligations of Alba Plant LLC. Payment by us would be required if any of those entities fails to honor its payment obligations pursuant to the relevant agreements with the owners of the Alen Unit. Certain owners of the Alen Unit, or their affiliates, are also direct or indirect shareholders in Equatorial Guinea LNG Operations, S.A. and Alba Plant LLC. Each guarantee expires no later than December 31, 2027. We measured these guarantees at fair value using the net present value of premium payments we expect to receive from our investees. Our liability for these guarantees was approximately \$4 million as of December 31, 2023. Each of Equatorial Guinea LNG Operations, S.A. and Equatorial Guinea LNG Train 1, S.A. provided us with a pledge of its receivables as recourse against any payments we may make under the guaranty of Equatorial Guinea LNG Operations, S.A.’s performance.

Supplementary Information on Oil and Gas Producing Activities (Unaudited)

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, and natural gas reserve estimates are reviewed and approved by asset leadership and our Corporate Reserves Group (“CRG”), which includes our Manager of Corporate Reserves and his staff. Crude oil and condensate, NGLs and natural gas reserve estimates are developed or reviewed by Qualified Reserves Estimators (“QREs”). QREs are petro-technical professionals embedded within the asset teams who meet the qualifications we have established for employees engaged in estimating reserves. QREs have the education, experience and training necessary to estimate reserves in a manner consistent with all external reserve estimation regulations. QREs generally hold at least a Bachelor of Science degree in the appropriate technical field, have a minimum of five years of industry experience with at least three years in reserve estimation and have completed our QRE training course.

The Manager of Corporate Reserves is the technical person primarily responsible for overseeing the preparation and audit of the reserves estimates. He has a Bachelor of Science in Petroleum Engineering, is a licensed Professional Engineer in Oklahoma and Texas, and is a Certified Petroleum Engineer with the Society of Petroleum Engineers (“SPE”). He has over 11 years of experience in the estimation of reserves and resources and is a member of the Society of Petroleum Evaluation Engineers (“SPEE”).

Methodologies used in proved reserves estimation may include decline curve analysis, statistical analysis of production performance, reservoir simulation and volumetric analysis. The observed statistical nature of production performance coupled with highly certain reservoir continuity or quality and sufficient proved developed locations establish the reasonable certainty criteria required for booking proved reserves.

Audits of Estimates

We have established a robust series of internal controls, policies and processes intended to ensure the quality and accuracy of our reserve estimates. We also engage third-party consultants to audit our estimates of proved reserves. Our policy requires that audits are provided that comprise at least 70% of our total proved reserves per year. An audit tolerance of +/- 10% to our internal estimates has been established.

For the year ended 2023, third party audits were conducted for proved reserves in Bakken, Eagle Ford, Permian and E.G., covering 87% of total reserves. All audits conducted during this period fell within the established +/- 10% tolerance.

Ryder Scott Company (“Ryder Scott”) performed audits for certain reserve estimates of our U.S. assets as of December 31, 2023. The Ryder Scott summary reports are filed as exhibits to this Annual Report on Form 10-K. The team lead for Ryder Scott has over 40 years of industry experience and experience with E&P companies and a major financial advisory services group before joining Ryder Scott over 20 years ago. He has been a member of SPE for over 45 years, past president of SPEE, past chairman of SPE Oil & Gas Reserves Committee and is a registered Professional Engineer in the State of Texas.

Netherland, Sewell & Associates, Inc. (“NSAI”) performed an audit for reserve estimates of Alba field as of December 31, 2023. The NSAI summary report is 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. The senior technical advisor has over 19 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 18 years of practical experience in petroleum geosciences and is a licensed Professional Geoscientist in the State of Texas.

Estimated Quantities of Proved Oil and Gas Reserves

The estimation of net recoverable quantities of crude oil and condensate, NGLs and natural gas 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 average of commodity prices in the prior 12-month period using the closing prices on the first day of each month. As discussed in **Item 1A. Risk Factors** and **Item 7. Management’s Discussion and Analysis of Financial Condition and Results of Operations – Critical Accounting Estimates**, commodity prices are volatile which can have an impact on proved reserves. If commodity prices in the future average below prices used to determine proved reserves at December 31, 2023, it could have an adverse effect on our estimates of proved reserve volumes and the value of our business. Future reserve revisions could also result from changes in capital funding, drilling plans and governmental regulation, among other things. It is difficult to estimate the magnitude of any potential price change and the effect on proved reserves, due to numerous factors.

Supplementary Information on Oil and Gas Producing Activities (Unaudited)
Estimated Quantities of Proved Oil and Gas Reserves

<i>(mmbbl)</i>	U.S.	E.G. ^(a)	Total
Crude oil and condensate			
Proved developed and undeveloped reserves:			
Beginning of year - 2021	483	26	509
Revisions of previous estimates	65	7	72
Purchases of reserves in place	3	—	3
Extensions, discoveries and other additions	49	—	49
Production	(59)	(4)	(63)
End of year - 2021	541	29	570
Revisions of previous estimates	10	5	15
Purchases of reserves in place	62	—	62
Extensions, discoveries and other additions	60	—	60
Production	(58)	(4)	(62)
End of year - 2022	615	30	645
Revisions of previous estimates	(29)	(1)	(30)
Purchases of reserves in place	1	—	1
Extensions, discoveries and other additions	97	—	97
Production	(66)	(3)	(69)
End of year - 2023	618	26	644
Proved developed reserves:			
Beginning of year - 2021	301	23	324
End of year - 2021	332	26	358
End of year - 2022	354	30	384
End of year - 2023	340	26	366
Proved undeveloped reserves:			
Beginning of year - 2021	182	3	185
End of year - 2021	209	3	212
End of year - 2022	261	—	261
End of year - 2023	278	—	278

Supplementary Information on Oil and Gas Producing Activities (Unaudited)
Estimated Quantities of Proved Oil and Gas Reserves (continued)

<i>(mmbbl)</i>	U.S.	E.G. ^(a)	Total
NGLs			
Proved developed and undeveloped reserves:			
Beginning of year - 2021	155	16	171
Revisions of previous estimates	43	4	47
Purchases of reserves in place	1	—	1
Extensions, discoveries and other additions	24	—	24
Production	(23)	(2)	(25)
End of year - 2021	200	18	218
Revisions of previous estimates	35	2	37
Purchases of reserves in place	63	—	63
Extensions, discoveries and other additions	18	—	18
Production	(24)	(2)	(26)
End of year - 2022	292	18	310
Revisions of previous estimates	(11)	—	(11)
Purchases of reserves in place	3	—	3
Extensions, discoveries and other additions	53	—	53
Production	(32)	(2)	(34)
End of year - 2023	305	16	321
Proved developed reserves:			
Beginning of year - 2021	110	14	124
End of year - 2021	135	17	152
End of year - 2022	183	18	201
End of year - 2023	193	16	209
Proved undeveloped reserves:			
Beginning of year - 2021	45	2	47
End of year - 2021	65	1	66
End of year - 2022	109	—	109
End of year - 2023	112	—	112

Supplementary Information on Oil and Gas Producing Activities (Unaudited)
Estimated Quantities of Proved Oil and Gas Reserves (continued)

<i>(bcf)</i>	U.S.	E.G. ^(a)	Total
Natural gas			
Proved developed and undeveloped reserves:			
Beginning of year - 2021	1,174	574	1,748
Revisions of previous estimates	245	(13)	232
Purchases of reserves in place	3	—	3
Extensions, discoveries and other additions	162	—	162
Production ^(b)	(138)	(95)	(233)
End of year - 2021	1,446	466	1,912
Revisions of previous estimates	44	62	106
Purchases of reserves in place	401	—	401
Extensions, discoveries and other additions	100	—	100
Production ^(b)	(132)	(92)	(224)
End of year - 2022	1,859	436	2,295
Revisions of previous estimates	(242)	(24)	(266)
Purchases of reserves in place	38	—	38
Extensions, discoveries and other additions	330	—	330
Production ^(b)	(190)	(78)	(268)
Sales of reserves in place	(1)	—	(1)
End of year - 2023	1,794	334	2,128
Proved developed reserves:			
Beginning of year - 2021	827	526	1,353
End of year - 2021	998	439	1,437
End of year - 2022	1,223	436	1,659
End of year - 2023	1,150	334	1,484
Proved undeveloped reserves:			
Beginning of year - 2021	347	48	395
End of year - 2021	448	27	475
End of year - 2022	636	—	636
End of year - 2023	644	—	644

Supplementary Information on Oil and Gas Producing Activities (Unaudited)
Estimated Quantities of Proved Oil and Gas Reserves (continued)

<i>(mmboe)</i>	U.S.	E.G. ^(a)	Total
Total Proved Reserves			
Proved developed and undeveloped reserves:			
Beginning of year - 2021	835	137	972
Revisions of previous estimates	148	10	158
Purchases of reserves in place	4	—	4
Extensions, discoveries and other additions	99	—	99
Production ^(b)	(104)	(23)	(127)
End of year - 2021	982	124	1,106
Revisions of previous estimates	53	18	71
Purchases of reserves in place	191	—	191
Extensions, discoveries and other additions	95	—	95
Production ^(b)	(104)	(21)	(125)
End of year - 2022	1,217	121	1,338
Revisions of previous estimates	(81)	(5)	(86)
Purchases of reserves in place	11	—	11
Extensions, discoveries and other additions	205	—	205
Production ^(b)	(129)	(19)	(148)
End of year - 2023	1,223	97	1,320
Proved developed reserves:			
Beginning of year - 2021	549	125	674
End of year - 2021	634	115	749
End of year - 2022	741	121	862
End of year - 2023	726	97	823
Proved undeveloped reserves:			
Beginning of year - 2021	286	12	298
End of year - 2021	348	9	357
End of year - 2022	476	—	476
End of year - 2023	497	—	497

^(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)

2023 proved reserves decreased by 18 mmboe primarily due to the following:

- ***Revisions of previous estimates:*** Decreased by 86 mmboe as referenced below:
 - Primary Increases:*
 - 32 mmboe associated with performance and other technical revisions
 - Primary Decreases:*
 - 51 mmboe due to reduced commodity pricing
 - 69 mmboe due to changes in the 5-year plan in U.S. resource plays
- ***Purchases of reserves in place:*** Increased by 11 mmboe due to acquisitions in U.S. resource plays
- ***Extensions, discoveries and other additions:*** Increased by 205 mmboe as referenced below:
 - Primary Increases:*
 - 173 mmboe in the U.S. resource plays associated with booking proved undeveloped reserves on previously unproved acreage
 - 32 mmboe in the U.S. resource plays associated with wells to sales from unproved categories
- ***Production:*** Decreased by 148 mmboe.

2022 proved reserves increased by 232 mmboe primarily due to the following:

- ***Revisions of previous estimates:*** Increased by 71 mmboe as referenced below:
 - Primary Increases:*
 - 50 mmboe associated with improved commodity pricing
 - 30 mmboe associated with changes in the 5-year plan in U.S. resource plays
 - Primary Decreases:*
 - 19 mmboe due to increased operational costs
- ***Purchases of reserves in place:*** Increased by 191 mmboe due to acquisitions in U.S. resource plays
- ***Extensions, discoveries and other additions:*** Increased by 95 mmboe as referenced below:
 - Primary Increases:*
 - 87 mmboe in the U.S. resource plays associated with the expansion of proved areas
- ***Production:*** Decreased by 125 mmboe.

2021 proved reserves increased by 134 mmboe primarily due to the following:

- ***Revisions of previous estimates:*** Increased by 158 mmboe as referenced below:
 - Primary Increases:*
 - 106 mmboe associated with improved commodity pricing
 - 37 mmboe associated with changes in the 5-year plan in U.S. resource plays
 - 23 mmboe associated with performance and other technical revisions
 - 12 mmboe associated with wells to sales from unproved categories
 - Primary Decreases:*
 - 20 mmboe due to increased operational costs
- ***Extensions, discoveries and other additions:*** Increased by 99 mmboe as referenced below:
 - Primary Increases:*
 - 84 mmboe in the U.S. resource plays associated with the expansion of proved areas
 - 15 mmboe in the U.S. resource plays associated with wells to sales from unproved categories
- ***Production:*** Decreased by 127 mmboe.

Supplementary Information on Oil and Gas Producing Activities (Unaudited)

Changes in Proved Undeveloped Reserves

The following table shows changes in proved undeveloped reserves for 2023:

(mmboe)

Beginning of year	476
Revisions of previous estimates	(60)
Purchases of reserves in place	—
Extensions, discoveries and other additions	173
Transfers to proved developed	(92)
End of year	497

2023 proved undeveloped reserves increased by 21 mmboe primarily due to the following:

- **Revisions of prior estimates:** Decreased by 60 mmboe as referenced below:
 - Primary Increases:
 - 15 mmboe associated with performance and other technical revisions
 - Primary Decreases:
 - 69 mmboe due to changes in the 5-year plan in U.S. resource plays
- **Extensions, discoveries and other additions:** Increased by 173 mmboe associated with booking proved undeveloped reserves on previously unproved acreage.
- **Transfers to proved developed:** 92 mmboe of PUD reserves were converted to proved developed status during 2023. This 2023 transfer equates to a 19% PUD conversion rate and a 5-year average PUD conversion rate during the 2019 - 2023 period of 22%. All proved undeveloped reserve drilling locations are scheduled to be producing within five years of the initial booking date.

Supplementary Information on Oil and Gas Producing Activities (Unaudited)

Capitalized Costs and Accumulated Depreciation, Depletion and Amortization

<i>(In millions)</i>	U.S.	E.G.	Total
Year Ended December 31, 2023			
Capitalized Costs:			
Proved properties	\$ 37,966	\$ 2,064	\$ 40,030
Unproved properties	2,287	—	2,287
Total	40,253	2,064	42,317
Accumulated depreciation, depletion and amortization:			
Proved properties	23,055	1,819	24,874
Unproved properties	372	(7)	365
Total	23,427	1,812	25,239
Net capitalized costs	\$ 16,826	\$ 252	\$ 17,078
Year Ended December 31, 2022			
Capitalized Costs:			
Proved properties	\$ 35,227	\$ 2,057	\$ 37,284
Unproved properties	3,177	—	3,177
Total	38,404	2,057	40,461
Accumulated depreciation, depletion and amortization:			
Proved properties	21,118	1,776	22,894
Unproved properties	333	(7)	326
Total	21,451	1,769	23,220
Net capitalized costs	\$ 16,953	\$ 288	\$ 17,241

Supplementary Information on Oil and Gas Producing Activities (Unaudited)
Costs Incurred for Property Acquisition, Exploration and Development ^(a)

<i>(In millions)</i>	U.S.	E.G.	Total
December 31, 2023			
Property acquisition:			
Proved	\$ 27	\$ —	\$ 27
Unproved	(5)	—	(5)
Exploration	143	2	145
Development	1,812	1	1,813
Total	\$ 1,977	\$ 3	\$ 1,980
December 31, 2022			
Property acquisition:			
Proved	\$ 2,291	\$ —	\$ 2,291
Unproved	1,029	—	1,029
Exploration	219	—	219
Development	1,203	—	1,203
Total	\$ 4,742	\$ —	\$ 4,742
December 31, 2021			
Property acquisition:			
Proved	\$ 47	\$ —	\$ 47
Unproved	9	—	9
Exploration	162	—	162
Development	781	5	786
Total	\$ 999	\$ 5	\$ 1,004

^(a) Includes costs incurred whether capitalized or expensed.

Supplementary Information on Oil and Gas Producing Activities (Unaudited)

Results of Operations for Oil and Gas Producing Activities

	U.S.	E.G.	Total
Year Ended December 31, 2023			
Revenues and other income			
Sales	\$ 6,221	\$ 204	\$ 6,425
Other income	17	—	17
Total revenues and other income	6,238	204	6,442
Expenses:			
Production costs	(1,785)	(76)	(1,861)
Exploration expenses ^(a)	(57)	(2)	(59)
Depreciation, depletion and amortization ^(b)	(2,159)	(44)	(2,203)
Technical support and other	(49)	(4)	(53)
Total expenses	(4,050)	(126)	(4,176)
Results before income taxes	2,188	78	2,266
Income tax provision	(413)	(22)	(435)
Results of operations	\$ 1,775	\$ 56	\$ 1,831
Year Ended December 31, 2022			
Revenues and other loss:			
Sales	\$ 7,060	\$ 268	\$ 7,328
Other loss	(38)	—	(38)
Total revenues and other loss	7,022	268	7,290
Expenses:			
Production costs	(1,712)	(65)	(1,777)
Exploration expenses ^(a)	(110)	—	(110)
Depreciation, depletion and amortization ^(b)	(1,682)	(60)	(1,742)
Technical support and other	(53)	(3)	(56)
Total expenses	(3,557)	(128)	(3,685)
Results before income taxes	3,465	140	3,605
Income tax provision	(789)	(41)	(830)
Results of operations	\$ 2,676	\$ 99	\$ 2,775
Year Ended December 31, 2021			
Revenues and other income:			
Sales	\$ 4,828	\$ 265	\$ 5,093
Other income	9	—	9
Total revenues and other income	4,837	265	5,102
Expenses:			
Production costs	(1,388)	(56)	(1,444)
Exploration expenses ^(a)	(136)	—	(136)
Depreciation, depletion and amortization ^(b)	(2,032)	(68)	(2,100)
Technical support and other	(38)	(3)	(41)
Total expenses	(3,594)	(127)	(3,721)
Results before income taxes	1,243	138	1,381
Income tax provision	(7)	(37)	(44)
Results of operations	\$ 1,236	\$ 101	\$ 1,337

^(a) Includes exploratory dry well costs, unproved property impairments and other.

^(b) Includes accretion of asset retirement obligations (See [Note 11](#)) and long-lived asset impairments (See [Note 10](#)).

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,		
	2023	2022	2021
Results of operations	\$ 1,831	\$ 2,775	\$ 1,337
Items not included in results of oil and gas operations, net of tax:			
Marketing income and other non-oil and gas producing related activities	(75)	(99)	(125)
Income from equity method investments	167	502	232
Items not allocated to segment income, net of tax:			
Administration expenses and other	57	98	37
Long-lived asset impairments	2	6	59
Exploratory dry well costs and unproved property impairments	23	57	70
Unrealized gain on derivatives	(10)	(14)	(16)
Segment income	\$ 1,995	\$ 3,325	\$ 1,594

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, NGLs and natural gas reserves.

<i>(In millions)</i>	U.S.	E.G.	Total
Year Ended December 31, 2023			
Future cash inflows	\$ 58,735	\$ 2,561	\$ 61,296
Future production and support costs	(23,069)	(1,272)	(24,341)
Future development costs ^(a)	(8,414)	(49)	(8,463)
Future income tax expenses	(3,143)	(333)	(3,476)
Future net cash flows	\$ 24,109	\$ 907	\$ 25,016
10% annual discount for timing of cash flows	(11,745)	(185)	(11,930)
Standardized measure of discounted future net cash flows	\$ 12,364	\$ 722	\$ 13,086
Year Ended December 31, 2022			
Future cash inflows	\$ 80,247	\$ 2,278	\$ 82,525
Future production and support costs	(25,404)	(1,110)	(26,514)
Future development costs ^(a)	(6,848)	(54)	(6,902)
Future income tax expenses	(7,516)	(284)	(7,800)
Future net cash flows	\$ 40,479	\$ 830	\$ 41,309
10% annual discount for timing of cash flows	(18,807)	(279)	(19,086)
Standardized measure of discounted future net cash flows	\$ 21,672	\$ 551	\$ 22,223
Year Ended December 31, 2021			
Future cash inflows	\$ 46,172	\$ 1,734	\$ 47,906
Future production and support costs	(17,212)	(880)	(18,092)
Future development costs ^(a)	(4,459)	(36)	(4,495)
Future income tax expenses	(2,526)	(209)	(2,735)
Future net cash flows	\$ 21,975	\$ 609	\$ 22,584
10% annual discount for timing of cash flows	(10,000)	(180)	(10,180)
Standardized measure of discounted future net cash flows	\$ 11,975	\$ 429	\$ 12,404

^(a) Includes estimated abandonment costs to settle asset retirement obligations.

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,		
	2023	2022	2021
Sales and transfers of oil and gas produced, net of production and support costs	\$ (4,512)	\$ (5,496)	\$ (3,608)
Net changes in prices and production and support costs related to future production	(9,605)	8,643	8,013
Extensions, discoveries and improved recovery, less related costs	1,607	1,727	739
Development costs incurred during the period	1,868	1,232	795
Changes in estimated future development costs	(762)	(1,057)	20
Revisions of previous quantity estimates	(1,269)	1,379	2,460
Net changes in purchases and sales of minerals in place	149	4,090	(52)
Accretion of discount	2,579	1,335	374
Changes in timing and other ^(a)	(993)	590	523
Net change in income taxes	1,801	(2,624)	(879)
Net change for the year	(9,137)	9,819	8,385
Beginning of the year	22,223	12,404	4,019
End of the year	\$ 13,086	\$ 22,223	\$ 12,404

^(a) Primarily a result of changes in estimated timing of development and production activities.

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, 2023.

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 2023, 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

During the three months ended December 31, 2023, no director or officer adopted or terminated a Rule 10b5-1 trading arrangement or non-Rule 10b5-1 trading arrangement, as each term is defined in Item 408(a) of Regulation S-K.

Item 9C. Disclosure Regarding Foreign Jurisdictions that Prevent Inspections

Not applicable.

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” and “Corporate Governance—Committees of the Board” in our Proxy Statement for the 2024 Annual Meeting of Stockholders, to be filed with the SEC within 120 days of December 31, 2023 (the “2024 Proxy Statement”).

See “Executive Officers” under Item 1 of this Form 10-K for information about our executive officers.

Our code of ethics for Senior Financial Officers, which applies to our principal executive officer, principal financial officer, principal accounting officer or controller, or persons performing similar functions, is contained in our Code of Business Conduct, which is available on our website at www.marathonoil.com under Investors—Corporate Governance. You may request a printed copy free of charge by sending a request to the Corporate Secretary. We intend to disclose any amendments and any waivers to our Code of Business Conduct that apply to our principal executive officer, principal financial officer, principal accounting officer or controller, or persons performing similar functions and relate to any element of the Code of Business Conduct enumerated in Item 406(b) of Regulation S-K on our website at www.marathonoil.com under Investors—Corporate Governance within four business days. The waiver information will remain on the website for at least 12 months after the initial disclosure of such waiver.

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 2024 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 2024 Proxy Statement.

Securities Authorized for Issuance Under Equity Compensation Plans

The following table provides information as of December 31, 2023, with respect to shares of Marathon Oil common stock that may be issued under our existing equity compensation plans:

- Marathon Oil Corporation 2019 Incentive Compensation Plan (the “2019 Plan”)
- Marathon Oil Corporation 2016 Incentive Compensation Plan (the “2016 Plan”) – No additional awards will be granted under this 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.

Plan category	Number of securities to be issued upon exercise of outstanding options, warrants and rights	Weighted-average exercise price of outstanding options, warrants and rights	Number of securities remaining available for future issuance under equity compensation plans
Equity compensation plans approved by stockholders	5,392,554 ^(a)	\$ 31.38 ^(b)	22,024,859 ^(c)

^(a) Represents 1,004,304 outstanding stock options, 3,543,898 restricted stock units, 686,266 stock-based performance units assuming target performance and 158,086 deferred stock units.

^(b) Weighted-average exercise price of outstanding stock options only; excludes restricted stock units, stock-based performance units and deferred stock units.

^(c) Reflects the shares available for issuance under the 2019 Plan for awards of restricted stock, restricted stock units, stock-based performance units, stock options and SARs. In the case of stock-based performance units, amounts assume target performance.

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 2024 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 2024” in the 2024 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.

Exhibit Index

Exhibit Number	Exhibit Description	Incorporated by Reference (File No. 001-05153, unless otherwise indicated)		
		Form	Exhibit	Filing Date
2	Plan of Acquisition, Reorganization, Arrangement, Liquidation or Succession			
2.1	Purchase and Sale Agreement, dated November 2, 2022, by and among Ensign Operating LLC, Ensign Operating II LLC, Ensign Operating III LLC, and Marathon Oil EF II LLC	8-K	2.1	11/7/2022
3	Articles of Incorporation and By-laws			
3.1	Restated Certificate of Incorporation of Marathon Oil Corporation	8-K	3.1	6/1/2018
3.2	Marathon Oil Corporation By-laws (Amended and Restated as of October 25, 2023)	8-K/A	3.2	10/30/2023
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
4.2*	Description of Registrants Securities			
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	Second Amendment, dated as of June 22, 2017, 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, and supplemented by the Incremental Commitments Supplement dated as of March 4, 2016, 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	6/23/2017

Exhibit Number	Exhibit Description	Incorporated by Reference (File No. 001-05153, unless otherwise indicated)		
		Form	Exhibit	Filing Date
10.5	Incremental Commitment Supplement, dated as of July 11, 2017, 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, supplemented by the Incremental Commitments Supplement dated as of March 4, 2016, and amended by the Second Amendment dated as of June 22, 2017, 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.	10-Q	10.2	8/3/2017
10.6	Third Amendment, dated as of October 18, 2018, 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 and the Second Amendment dated as of June 22, 2017 and as supplemented by the Incremental Commitments Supplement dated as of March 4, 2016 and Incremental Commitments Supplement dated as July 11, 2017, among Marathon Oil Corporation, as borrower, the lenders party thereto, Mizuho Bank, Ltd, 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	10/22/2018
10.7	Fourth Amendment, dated as of September 24, 2019, 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, the Second Amendment dated as of June 22, 2017, and the Third Amendment dated as of October 18, 2018 and as supplemented by the Incremental Commitments Supplement dated as of March 4, 2016 and Incremental Commitments Supplement dated as July 11, 2017, among Marathon Oil Corporation, as borrower, JPMorgan Chase Bank, N.A., as administrative agent, and certain other financial institutions named therein	8-K	10.1	9/24/2019
10.8	Fifth Amendment, dated as of December 4, 2020, 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, the Second Amendment, dated as of June 22, 2017, the Third Amendment, dated as of October 18, 2018, and the Fourth Amendment, dated as of September 24, 2019 and as supplemented by the Incremental Commitments Supplement, dated as of March 4, 2016 and Incremental Commitments Supplement, dated as July 11, 2017, among Marathon Oil Corporation, as borrower, JPMorgan Chase Bank, N.A., as administrative agent, and certain other financial institutions named therein	8-K	10.1	12/8/2020
10.9	Sixth Amendment, dated as of June 21, 2021, 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, the Second Amendment, dated as of June 22, 2017, the Third Amendment, dated as of October 18, 2018, the Fourth Amendment, dated as of September 24, 2019, and the Fifth Amendment, dated as of December 4, 2020 and as supplemented by the Incremental Commitments Supplement, dated as of March 4, 2016 and Incremental Commitments Supplement, dated as July 11, 2017, among Marathon Oil Corporation, as borrower, JPMorgan Chase Bank, N.A., as administrative agent, and certain other financial institutions named therein	8-K	10.1	6/23/2021

Exhibit Number	Exhibit Description	Incorporated by Reference (File No. 001-05153, unless otherwise indicated)		
		Form	Exhibit	Filing Date
10.10	Seventh Amendment, dated as of July 28, 2022, 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, the Second Amendment, dated as of June 22, 2017, the Third Amendment, dated as of October 18, 2018, the Fourth Amendment, dated as of September 24, 2019, the Fifth Amendment, dated as of December 4, 2020 and the Sixth Amendment, dated as of June 21, 2021, and as supplemented by the Incremental Commitments Supplement, dated as of March 4, 2016 and Incremental Commitments Supplement, dated as of July 11, 2017, among Marathon Oil Corporation, as borrower, JPMorgan Chase Bank, N.A., as administrative agent, and certain other financial institutions named therein	8-K	10.1	8/2/2022
10.11	Term Credit Agreement, dated as of November 22, 2022, among Marathon Oil Corporation, Morgan Stanley Senior Funding, Inc., as administrative agent, and the other financial institutions named therein	8-K	10.1	11/29/2022
10.12	Incremental Commitment Supplement, dated as of September 19, 2023, 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, the Second Amendment, dated as of June 22, 2017, the Third Amendment, dated as of October 18, 2018, the Fourth Amendment, dated as of September 24, 2019, the Fifth Amendment, dated as of December 4, 2020, the Sixth Amendment, dated as of June 21, 2021 and the Seventh Amendment, dated as of July 28, 2022, and as supplemented by the Incremental Commitments Supplement, dated as of March 4, 2016 and Incremental Commitments Supplement, dated as of July 11, 2017, 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	11/2/2023
10.13†	2022 Form of Marathon Oil Corporation 2019 Incentive Compensation Plan Performance Unit Award Agreement 2022 - 2023 Performance Cycle for Section 16 Officers	10-Q	10.1	5/5/2022
10.14†	2022 Form of Marathon Oil Corporation 2019 Incentive Compensation Plan Performance Unit Award Agreement 2022 - 2024 Performance Cycle for Section 16 Officers	10-Q	10.2	5/5/2022
10.15†	2021 Form of Marathon Oil Corporation 2019 Incentive Compensation Plan Restricted Stock Unit Award Agreement for Section 16 Officers	10-Q	10.1	5/6/2021
10.16†	2021 Form of Marathon Oil Corporation 2019 Incentive Compensation Plan Performance Unit Award Agreement 2021 - 2022 Performance Cycle for Section 16 Officers	10-Q	10.2	5/6/2021
10.17†	2021 Form of Marathon Oil Corporation 2019 Incentive Compensation Plan Performance Unit Award Agreement 2021 - 2023 Performance Cycle for Section 16 Officers	10-Q	10.3	5/6/2021
10.18†	2021 Form of Marathon Oil Corporation 2019 Incentive Compensation Plan Restricted Stock Unit Award Agreement for Non-Employee Directors	10-K	10.9	2/23/2021
10.19†	Marathon Oil Corporation 2019 Incentive Compensation Plan	DEF 14A	App. A	4/12/2019
10.20†	2019 Form of Marathon Oil Corporation 2019 Incentive Compensation Plan Restricted Stock Award Agreement for Section 16 Officers	10-Q	10.1	8/8/2019
10.21†	2019 Form of Marathon Oil Corporation 2019 Incentive Compensation Plan Nonqualified Stock Option Award Agreement for Section 16 Officers	10-Q	10.2	8/8/2019

Exhibit Number	Exhibit Description	Incorporated by Reference (File No. 001-05153, unless otherwise indicated)		
		Form	Exhibit	Filing Date
10.22†	2019 Form of Marathon Oil Corporation 2019 Incentive Compensation Plan Restricted Stock Unit Award Agreement for Section 16 Officers	10-Q	10.3	8/8/2019
10.23†	2019 Form of Marathon Oil Corporation 2019 Incentive Compensation Plan Restricted Stock Unit Award Agreement for Non-Employee Directors	10-Q	10.4	8/8/2019
10.24†	2020 Form of Marathon Oil Corporation 2019 Incentive Compensation Plan Performance Unit Award Agreement for Section 16 Officers	10-K	10.13	2/2/2020
10.25†	2023 Form of Marathon Oil Corporation 2019 Incentive Compensation Plan Performance Unit Award Agreement 2023 - 2024 Performance Cycle for Section 16 Officers	10-Q	10.1	5/4/2023
10.26†	2023 Form of Marathon Oil Corporation 2019 Incentive Compensation Plan Performance Unit Award Agreement 2023 - 2025 Performance Cycle for Section 16 Officers	10-Q	10.2	5/4/2023
10.27†	Marathon Oil Corporation 2016 Incentive Compensation Plan	DEF 14A	App. A	4/7/2016
10.28†	Summary Director Compensation Arrangement, effective 2023	10-K	10.25	2/16/2023
10.29†	Form of Marathon Oil Corporation 2016 Incentive Compensation Plan Restricted Stock Unit Award Agreement for Non-Employee Directors (3-year cliff vesting)	10-K	10.8	2/24/2017
10.30†	Form of Marathon Oil Corporation 2016 Incentive Compensation Plan Restricted Stock Unit Award Agreement for Non-Employee Canadian Directors (3-year cliff vesting)	10-K	10.9	2/24/2017
10.31†	Marathon Oil Corporation 2012 Incentive Compensation Plan	DEF 14A	App. III	3/8/2012
10.32†	Form of Marathon Oil Corporation 2012 Incentive Compensation Plan Non-Qualified Stock Option Award Agreement	8-K	10.1	8/1/2014
10.33†	Form of Marathon Oil Corporation 2012 Incentive Compensation Plan Initial CEO Option Grant Agreement	10-Q	10.1	11/6/2013
10.34†	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
10.35†	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
10.36†	Marathon Oil Corporation Deferred Compensation Plan for Non-Employee Directors (Amended and Restated as of December 20, 2016)	10-K	10.29	2/24/2017
10.37†	Marathon Oil Company Deferred Compensation Plan Amended and Restated Effective June 30, 2011	10-K	10.32	2/29/2012
10.38†	Marathon Oil Company Excess Benefit Plan Amended and Restated	10-K	10.31	2/29/2012
10.39*†	Marathon Oil Corporation Officer Change in Control Severance Benefits Plan (As amended effective January 31, 2024)			
10.40†	Marathon Oil Corporation Policy for Repayment of Annual Cash Bonus Amounts	10-K	10.10	2/28/2011
10.41†	Marathon Oil Corporation Executive Tax, Estate and Financial Planning Program, Amended and Restated Effective January 1, 2024	10-Q	10.2	11/2/2023
10.42†	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
21.1*	List of Significant Subsidiaries			
23.1*	Consent of Independent Registered Public Accounting Firm			

Exhibit Number	Exhibit Description	Form	Exhibit	Filing Date
23.2*	Consent of Ryder Scott Company, L.P., independent petroleum engineers and geologists			
23.3*	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			
97.1*	Clawback Policy for the Recovery of Erroneously Awarded Compensation			
99.1*	Summary report of audits performed by Ryder Scott Company, L.P., independent petroleum engineers and geologists for 2023			
99.2*	Summary report of audits performed by Ryder Scott Company, L.P., independent petroleum engineers and geologists for 2023			
99.3*	Summary report of audits performed by Ryder Scott Company, L.P., independent petroleum engineers and geologists for 2023			
99.4*	Summary report of audits performed by Netherland, Sewell & Associates, Inc., independent petroleum engineers and geologists for 2023			
101.INS*	XBRL Instance Document - the XBRL Instance Document does not appear in the Interactive Data File because its XBRL tags are embedded within the Inline XBRL document			
101.SCH*	XBRL Taxonomy Extension Schema			
101.CAL*	XBRL Taxonomy Extension Calculation Linkbase			
101.DEF*	XBRL Taxonomy Extension Definition Linkbase			
101.LAB*	XBRL Taxonomy Extension Label Linkbase			
101.PRE*	XBRL Taxonomy Extension Presentation Linkbase			
104*	Cover Page Interactive Data File, formatted in iXBRL and contained in Exhibit 101			
*	Filed herewith.			
†	Management contract or compensatory plan or arrangement.			

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 22, 2024

MARATHON OIL CORPORATION

By: /s/ ROB L. WHITE

Rob L. White

Vice President, Controller and Chief Accounting Officer

POWER OF ATTORNEY

Each person whose signature appears below appoints Lee M. Tillman, Dane E. Whitehead, and Rob L. White, 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 22, 2024 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	Chairman, President and Chief Executive Officer
<u>/s/ DANE E. WHITEHEAD</u> Dane E. Whitehead	Executive Vice President and Chief Financial Officer
<u>/s/ ROB L. WHITE</u> Rob L. White	Vice President, Controller and Chief Accounting Officer
<u>/s/ CHADWICK C. DEATON</u> Chadwick C. Deaton	Director
<u>/s/ MARCELA E. DONADIO</u> Marcela E. Donadio	Director
<u>/s/ M. ELISE HYLAND</u> M. Elise Hyland	Director
<u>/s/ HOLLI C. LADHANI</u> Holli C. Ladhani	Director
<u>/s/ MARK A. MCCOLLUM</u> Mark A. McCollum	Director
<u>/s/ BRENT J. SMOLIK</u> Brent J. Smolik	Director
<u>/s/ SHAWN D. WILLIAMS</u> Shawn D. Williams	Director

Corporate Information

Corporate Headquarters

990 Town and Country Boulevard
Houston, TX 77024-2217

Marathon Oil Corporation Web Site

www.marathonoil.com

Investor Relations Office

990 Town and Country Boulevard
Houston, TX 77024-2217

Guy Baber, VP Investor Relations
InvestorRelations@marathonoil.com
+1 713-296-1892

Notice of Annual Meeting

The 2024 Annual Meeting of Stockholders will be held in person at One MRO, Level 6 Auditorium, 990 Town and Country Boulevard, Houston, TX 77024-2217 on May 22, 2024, 8:00 a.m. Central Time

Independent Accountants

PricewaterhouseCoopers LLP
1000 Louisiana Street, Suite 5800
Houston, TX 77002-5021

Stock Exchange Listing

New York Stock Exchange

Common Stock Symbol

MRO

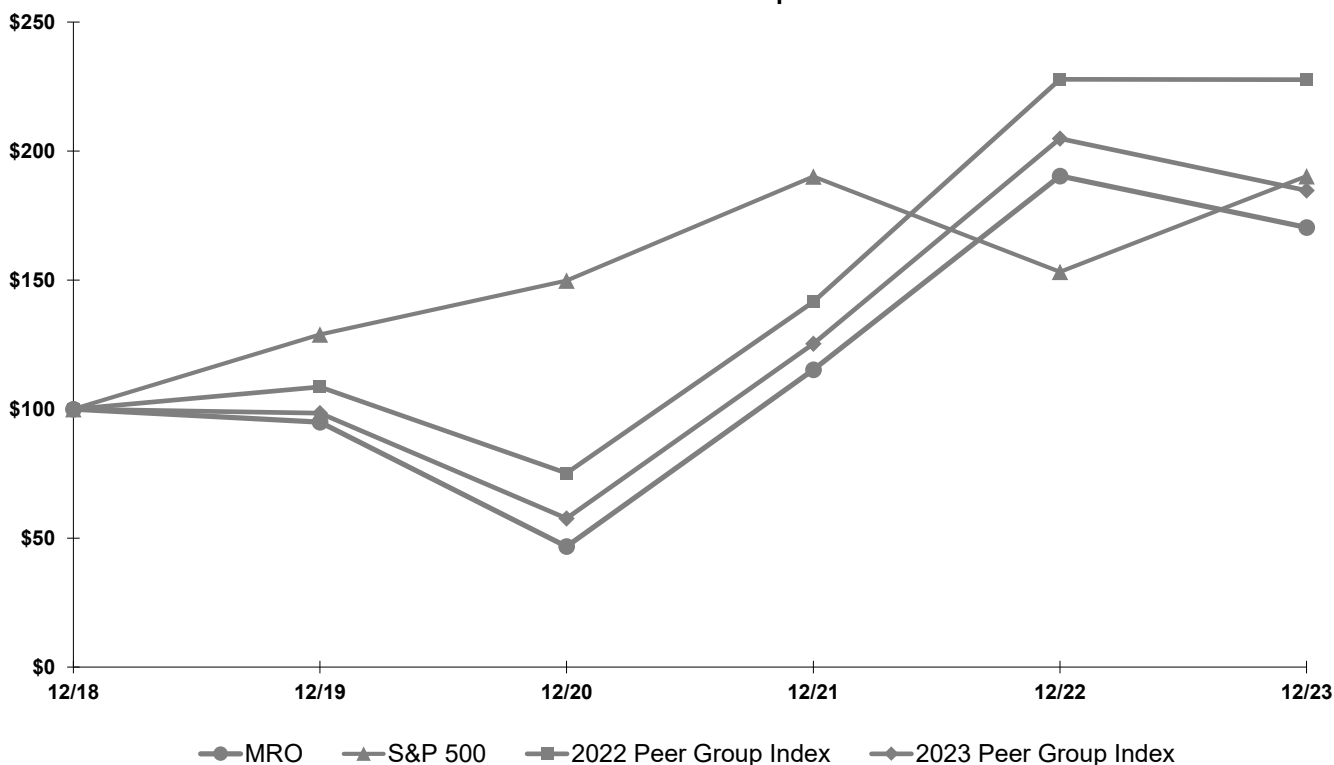
Stock Transfer Agent

Computershare
150 Royall St., Suite 101
Canton, MA 02021
888-843-5542 (Toll free - U.S., Canada, Puerto Rico)
+1 781-575-4735 (non-U.S.)
web.queries@computershare.com

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"), the LTI Peer Group Index shown in our 2023 Annual Report, excluding the S&P Energy Index and S&P 500 Index and based on membership as of the end of such fiscal year (the "2023 Peer Group Index"), and the LTI Peer Group Index shown in our 2022 Annual Report, excluding the S&P Energy Index and S&P 500 Index and based on membership as of the end of such fiscal year (the "2022 Peer Group Index"). 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 2022 Peer Group Index is comprised of APA Corporation, Devon Energy Corporation, Diamondback Energy, Inc., EOG Resources, Inc., Hess Corporation, Murphy Oil Corporation, Ovintiv Inc. and Pioneer Natural Resources Company ("Pioneer"). In June 2022, Continental Resources, Inc. announced that they received a take-private offer from Mr. Harold Hamm, which they later accepted and completed in 2022; in connection with this, Continental Resources, Inc. was removed from the peer group and was not a peer group member as of the end of the 2022 fiscal year. In setting the 2023 peer group, Chesapeake Energy Corporation was added to keep the peer group a comparable size to prior years. Hess Corporation ("Hess") and Pioneer were removed from the peer group as a result of the announcements that Hess is being acquired by Chevron Corporation and Pioneer is being acquired by ExxonMobil, respectively, and therefore were not peer group members as of the end of the 2023 fiscal year. The 2023 Peer Group Index is comprised of APA Corporation, Chesapeake Energy Corporation, Devon Energy Corporation, Diamondback Energy, Inc., EOG Resources, Inc., Murphy Oil Corporation and Ovintiv Inc.

**Comparison of Cumulative Total Return on \$100
Invested in Marathon Oil Common Stock on December 31, 2018
vs.
*S&P 500 and Peer Group Index**



*Total return assumes reinvestment of dividends

Company Information

Board of Directors (as of April 1, 2024)

Lee M. Tillman

Chairman, President and CEO, Marathon Oil Corporation

Chadwick C. Deaton

Former Executive Chairman, Baker Hughes Incorporated

Marcela E. Donadio

Former Partner, Ernst & Young, LLP

M. Elise Hyland

Former Senior Vice President, EQT Corporation

Holli C. Ladhani

Former President and CEO, Select Energy

Mark A. McCollum

Former President and CEO, Weatherford International

Brent J. Smolik

Former President and COO, Noble Energy, Inc.

Shawn D. Williams

Executive Chairman, Covia Holdings LLC

Executive Chairman, Tilley Distribution

Executive Officers (as of April 1, 2024)

Lee M. Tillman

Chairman, President and Chief Executive Officer

Dane E. Whitehead

Executive Vice President and Chief Financial Officer

Patrick J. Wagner

Executive Vice President, Corporate Development and Strategy

Michael A. Henderson

Executive Vice President, Operations

Kimberly O. Warnica

Executive Vice President, General Counsel and Secretary

Rob L. White

Vice President, Controller and Chief Accounting Officer

Forward-Looking Statements and Other Items

This annual report 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, statements regarding: returns to shareholders (including dividends and share repurchases), free cash flow generation, operational and financial execution and results, corporate returns, growth in per-share metrics, cost discipline, balance sheet strength, absolute and relative performance, GHG emissions and methane intensity reduction goals, natural gas capture goals and flaring reduction initiatives.

While the Company believes its assumptions concerning future events are reasonable, a number of factors could cause actual results to differ materially from those projected, including, but not limited to: conditions in the oil and gas industry, including supply/demand levels for crude oil and condensate, NGLs and natural gas and the resulting impact on price; changes in expected reserve or production levels; changes in political or economic conditions in the U.S. and Equatorial Guinea, including changes in foreign currency exchange rates, interest rates, inflation rates and global and domestic market conditions; actions taken by the members of the Organization of the Petroleum Exporting Countries (OPEC) and Russia affecting the production and pricing of crude oil and other global and domestic political, economic or diplomatic developments; capital available for exploration and development; risks related to the Company's hedging activities; voluntary or involuntary curtailments, delays or cancellations of certain drilling activities; well production timing; liabilities or corrective actions resulting from litigation, other proceedings and investigations or alleged violations of law or permits; drilling and operating risks; lack of, or disruption in, access to storage capacity, pipelines or other transportation methods; availability of drilling rigs, materials and labor, including the costs associated therewith; difficulty in obtaining necessary approvals and permits; the availability, cost, terms and timing of issuance or execution of, competition for, and challenges to, mineral licenses and leases and governmental and other permits and rights-of-way, and our ability to retain mineral licenses and leases; non-performance by third parties of contractual obligations, including due to bankruptcy; administrative impediments or unexpected events that may impact dividends or other distributions, and the timing thereof, from our equity method investees; changes in our credit ratings; hazards such as weather conditions, a health pandemic, acts of war or terrorist acts and the government or military response thereto; the impacts of supply chain disruptions that began during the COVID-19 pandemic and the resulting inflationary environment; security threats, including cybersecurity threats and disruptions to our business and operations from breaches of our information technology systems, or breaches of the information technology systems, facilities and infrastructure of third parties with which we transact business; changes in safety, health, environmental, tax and other regulations, requirements or initiatives, including those addressing the impact of global climate change, air emissions, or water management; our ability to achieve, reach or otherwise meet initiatives, plans, or ambitions with respect to ESG matters; our ability to pay dividends and make share repurchases; our ability to progress the E. G. Gas Mega Hub; impacts of the Inflation Reduction Act of 2022, and our assumptions relating thereto; the risk that assets we acquire do not perform consistent with our expectations, including with respect to future production or drilling inventory; other geological, operating and economic considerations; and the risk factors, forward-looking statements and challenges and uncertainties described in the Company's 2023 Annual Report on Form 10-K, Quarterly Reports on Form 10-Q and other public filings and press releases, available at <https://ir.marathonoil.com/>. Except as required by law, the Company undertakes no obligation to revise or update any forward-looking statements as a result of new information, future events or otherwise.

The letter in this annual report includes non-GAAP financial measures, including adjusted cash flow from operations. Reconciliations of the differences between non-GAAP financial measures used in the letter and their most directly comparable GAAP financial measures are available at www.marathonoil.com in the 4Q23 Investor Packet.