

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, 2019
OR

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 001-00368

Chevron Corporation

(Exact name of registrant as specified in its charter)

6001 Bollinger Canyon Road

Delaware

94-0890210

San Ramon, California 94583-2324

(State or other jurisdiction of
incorporation or organization)

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

(Address of principal executive offices)
(Zip Code)

Registrant's telephone number, including area code (925) 842-1000
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 \$.75 per share

CVX

New York Stock Exchange

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act.

Yes No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act.

Yes No

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days.

Yes No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files).

Yes No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company or 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 is a shell company (as defined in Rule 12b-2 of the Act). Yes No

The aggregate market value of the voting and non-voting common equity held by non-affiliates computed by reference to the price at which the common equity was last sold, or the average bid and asked price of such common equity, as of the last business day of the registrant's most recently completed second fiscal quarter — \$236.2 billion (As of June 28, 2019)

Number of Shares of Common Stock outstanding as of February 10, 2020 — 1,879,324,765

DOCUMENTS INCORPORATED BY REFERENCE

(To The Extent Indicated Herein)

Notice of the 2020 Annual Meeting and 2020 Proxy Statement, to be filed pursuant to Rule 14a-6(b) under the Securities Exchange Act of 1934, in connection with the company's 2020 Annual Meeting of Stockholders (in Part III)

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**CAUTIONARY STATEMENTS RELEVANT TO FORWARD-LOOKING INFORMATION
FOR THE PURPOSE OF “SAFE HARBOR” PROVISIONS OF THE
PRIVATE SECURITIES LITIGATION REFORM ACT OF 1995**

This *Annual Report on Form 10-K* of Chevron Corporation contains forward-looking statements relating to Chevron’s operations that are based on management’s current expectations, estimates and projections about the petroleum, chemicals and other energy-related industries. Words or phrases such as “anticipates,” “expects,” “intends,” “plans,” “targets,” “forecasts,” “projects,” “believes,” “seeks,” “schedules,” “estimates,” “positions,” “pursues,” “may,” “could,” “should,” “will,” “budgets,” “outlook,” “trends,” “guidance,” “focus,” “on schedule,” “on track,” “is slated,” “goals,” “objectives,” “strategies,” “opportunities,” “poised” and similar expressions are intended to identify such forward-looking statements. These statements are not guarantees of future performance and are subject to certain risks, uncertainties and other factors, many of which are beyond the company’s control and are difficult to predict. Therefore, actual outcomes and results may differ materially from what is expressed or forecasted in such forward-looking statements. The reader should not place undue reliance on these forward-looking statements, which speak only as of the date of this report. Unless legally required, Chevron undertakes no obligation to update publicly any forward-looking statements, whether as a result of new information, future events or otherwise.

Among the important factors that could cause actual results to differ materially from those projected in the forward-looking statements are: changing crude oil and natural gas prices; changing refining, marketing and chemicals margins; the company’s ability to realize anticipated cost savings and efficiencies associated with enterprise transformation initiatives; actions of competitors or regulators; timing of exploration expenses; timing of crude oil liftings; the competitiveness of alternate-energy sources or product substitutes; technological developments; the results of operations and financial condition of the company’s suppliers, vendors, partners and equity affiliates, particularly during extended periods of low prices for crude oil and natural gas; the inability or failure of the company’s joint-venture partners to fund their share of operations and development activities; the potential failure to achieve expected net production from existing and future crude oil and natural gas development projects; potential delays in the development, construction or start-up of planned projects; the potential disruption or interruption of the company’s operations due to war, accidents, political events, civil unrest, severe weather, cyber threats, terrorist acts and public health crises, such as pandemics and epidemics; crude oil production quotas or other actions that might be imposed by the Organization of Petroleum Exporting Countries and other producing countries, or other natural or human causes beyond the company’s control; changing economic, regulatory and political environments in the various countries in which the company operates; general domestic and international economic and political conditions; the potential liability for remedial actions or assessments under existing or future environmental regulations and litigation; significant operational, investment or product changes required by existing or future environmental statutes and regulations, including international agreements and national or regional legislation and regulatory measures to limit or reduce greenhouse gas emissions; the potential liability resulting from pending or future litigation; the company’s future acquisitions or dispositions of assets or shares or the delay or failure of such transactions to close based on required closing conditions; the potential for gains and losses from asset dispositions or impairments; government-mandated sales, divestitures, recapitalizations, industry-specific taxes, tariffs, sanctions, changes in fiscal terms or restrictions on scope of company operations; foreign currency movements compared with the U.S. dollar; material reductions in corporate liquidity and access to debt markets; the effects of changed accounting rules under generally accepted accounting principles promulgated by rule-setting bodies; the company’s ability to identify and mitigate the risks and hazards inherent in operating in the global energy industry; and the factors set forth under the heading “Risk Factors” on pages 18 through 21 in this report. Other unpredictable or unknown factors not discussed in this report could also have material adverse effects on forward-looking statements.

PART I

Item 1. Business

General Development of Business

Summary Description of Chevron

Chevron Corporation,* a Delaware corporation, manages its investments in subsidiaries and affiliates and provides administrative, financial, management and technology support to U.S. and international subsidiaries that engage in integrated energy and chemicals operations. Upstream operations consist primarily of exploring for, developing and producing crude oil and natural gas; processing, liquefaction, transportation and regasification associated with liquefied natural gas; transporting crude oil by major international oil export pipelines; transporting, storage and marketing of natural gas; and a gas-to-liquids plant. Downstream operations consist primarily of refining crude oil into petroleum products; marketing of crude oil and refined products; transporting crude oil and refined products by pipeline, marine vessel, motor equipment and rail car; and manufacturing and marketing of commodity petrochemicals, plastics for industrial uses and fuel and lubricant additives.

A list of the company's major subsidiaries is presented on page E-1. As of December 31, 2019, Chevron had approximately 48,200 employees (including about 3,500 service station employees). Approximately 25,400 employees (including about 3,200 service station employees), or 53 percent, were employed in U.S. operations.

Overview of Petroleum Industry

Petroleum industry operations and profitability are influenced by many factors. Prices for crude oil, natural gas, petroleum products and petrochemicals are generally determined by supply and demand. Production levels from the members of the Organization of Petroleum Exporting Countries (OPEC), Russia and the United States are the major factors in determining worldwide supply. Demand for crude oil and its products and for natural gas is largely driven by the conditions of local, national and global economies, although weather patterns and taxation relative to other energy sources also play a significant part. Laws and governmental policies, particularly in the areas of taxation, energy and the environment, affect where and how companies invest, conduct their operations and formulate their products and, in some cases, limit their profits directly.

Strong competition exists in all sectors of the petroleum and petrochemical industries in supplying the energy, fuel and chemical needs of industry and individual consumers. In the upstream business, Chevron competes with fully integrated, major global petroleum companies, as well as independent and national petroleum companies, for the acquisition of crude oil and natural gas leases and other properties and for the equipment and labor required to develop and operate those properties. In its downstream business, Chevron competes with fully integrated, major petroleum companies, as well as independent refining and marketing, transportation and chemicals entities and national petroleum companies in the refining, manufacturing, sale and marketing of fuels, lubricants, additives and petrochemicals.

Operating Environment

Refer to pages 28 through 34 of this Form 10-K in Management's Discussion and Analysis of Financial Condition and Results of Operations for a discussion of the company's current business environment and outlook.

Chevron's Strategic Direction

Chevron's primary objective is to deliver industry-leading results and superior shareholder value in any business environment. In the upstream, the company's strategy is to deliver industry-leading returns while developing high-value resource opportunities. In the downstream, the company's strategy is to grow earnings across the value chain and make targeted investments to lead the industry in returns. In support of the company's approach to the energy transition, Chevron is focused on lowering carbon intensity cost efficiently, increasing the use of renewables in its business, and investing in future breakthrough technologies.

Information about the company is available on the company's website at www.chevron.com. Information contained on the company's website is not part of this Annual Report on Form 10-K. The company's Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K and any amendments to these reports filed or furnished pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934 are available free of charge on the company's website soon after such reports are filed with or furnished to the U.S. Securities and Exchange Commission (SEC). The reports are also available on the SEC's website at www.sec.gov.

* Incorporated in Delaware in 1926 as Standard Oil Company of California, the company adopted the name Chevron Corporation in 1984 and ChevronTexaco Corporation in 2001. In 2005, ChevronTexaco Corporation changed its name to Chevron Corporation. As used in this report, the term "Chevron" and such terms as "the company," "the corporation," "our," "we," "us" and "its" may refer to Chevron Corporation, one or more of its consolidated subsidiaries, or all of them taken as a whole, but unless stated otherwise they do not include "affiliates" of Chevron — i.e., those companies accounted for by the equity method (generally owned 50 percent or less) or non-equity method investments. All of these terms are used for convenience only and are not intended as a precise description of any of the separate companies, each of which manages its own affairs.

Description of Business and Properties

The upstream and downstream activities of the company and its equity affiliates are widely dispersed geographically, with operations and projects* in North America, South America, Europe, Africa, Asia and Australia. Tabulations of segment sales and other operating revenues, earnings and income taxes for the three years ending December 31, 2019, and assets as of the end of 2019 and 2018 — for the United States and the company’s international geographic areas — are in Note 12 to the Consolidated Financial Statements beginning on page 68. Similar comparative data for the company’s investments in and income from equity affiliates and property, plant and equipment are in Note 13 beginning on page 71 and Note 16 on page 77. Refer to page 39 of this Form 10-K in Management’s Discussion and Analysis of Financial Condition and Results of Operations for a discussion of the company’s capital and exploratory expenditures.

Upstream

Reserves

Refer to Table V beginning on page 96 for a tabulation of the company’s proved crude oil, condensate, natural gas liquids, synthetic oil and natural gas reserves by geographic area, at the beginning of 2017 and each year-end from 2017 through 2019. Reserves governance, technologies used in establishing proved reserves additions, and major changes to proved reserves by geographic area for the three-year period ended December 31, 2019, are summarized in the discussion for Table V. Discussion is also provided regarding the nature of, status of, and planned future activities associated with the development of proved undeveloped reserves. The company recognizes reserves for projects with various development periods, sometimes exceeding five years. The external factors that impact the duration of a project include scope and complexity, remoteness or adverse operating conditions, infrastructure constraints, and contractual limitations.

At December 31, 2019, 28 percent of the company’s net proved oil-equivalent reserves were located in the United States, 23 percent were located in Australia and 19 percent were located in Kazakhstan.

The net proved reserve balances at the end of each of the three years 2017 through 2019 are shown in the following table:

	At December 31		
	2019	2018	2017
Liquids — Millions of barrels			
Consolidated Companies	4,771	4,975	4,530
Affiliated Companies	1,750	1,815	2,012
Total Liquids	6,521	6,790	6,542
Natural Gas — Billions of cubic feet			
Consolidated Companies	26,587	28,733	27,514
Affiliated Companies	2,870	2,843	3,222
Total Natural Gas	29,457	31,576	30,736
Oil-Equivalent — Millions of barrels ¹			
Consolidated Companies	9,202	9,764	9,116
Affiliated Companies	2,229	2,289	2,549
Total Oil-Equivalent	11,431	12,053	11,665

¹ Oil-equivalent conversion ratio is 6,000 cubic feet of natural gas = 1 barrel of crude oil.

* As used in this report, the term “project” may describe new upstream development activity, individual phases in a multiphase development, maintenance activities, certain existing assets, new investments in downstream and chemicals capacity, investments in emerging and sustainable energy activities, and certain other activities. All of these terms are used for convenience only and are not intended as a precise description of the term “project” as it relates to any specific governmental law or regulation.

Net Production of Liquids and Natural Gas

The following table summarizes the net production of liquids and natural gas for 2019 and 2018 by the company and its affiliates. Worldwide oil-equivalent production of 3.058 million barrels per day in 2019 was up more than 4 percent from 2018. Production increases from shale and tight properties, and the Wheatstone project in Australia were partially offset by normal field declines. Refer to the “Results of Operations” section beginning on page 32 for a detailed discussion of the factors explaining the changes in production for crude oil, condensate, natural gas liquids, synthetic oil and natural gas, and refer to Table V on pages 99 through 101 for information on annual production by geographical region.

Thousands of barrels per day (MBPD) Millions of cubic feet per day (MMCFPD)	Components of Oil-Equivalent					
	Oil-Equivalent (MBPD) ¹		Liquids (MBPD)		Natural Gas (MMCFPD)	
	2019	2018	2019	2018	2019	2018
United States	929	791	724	618	1,225	1,034
Other Americas						
Argentina	27	24	23	20	25	24
Brazil	8	11	8	10	2	4
Canada ²	135	116	119	103	95	79
Colombia	11	14	—	—	64	82
Total Other Americas	181	165	150	133	186	189
Africa						
Angola	95	108	86	98	52	59
Democratic Republic of the Congo ³	—	1	—	1	—	—
Nigeria	209	239	173	200	215	233
Republic of Congo	52	52	49	49	13	14
Total Africa	356	400	308	348	280	306
Asia						
Azerbaijan	20	20	18	18	10	10
Bangladesh	110	112	4	4	638	648
China	31	29	16	16	93	84
Indonesia	109	132	101	113	52	113
Kazakhstan	49	46	28	27	129	120
Myanmar	15	16	—	—	93	98
Partitioned Zone ⁴	—	—	—	—	—	—
Philippines	26	26	3	3	136	138
Thailand	238	236	65	66	1,038	1,022
Total Asia	598	617	235	247	2,189	2,233
Australia/Oceania						
Australia	455	426	45	42	2,460	2,304
Total Australia/Oceania	455	426	45	42	2,460	2,304
Europe						
Denmark ⁵	5	19	3	12	11	45
United Kingdom	62	65	44	43	108	133
Total Europe	67	84	47	55	119	178
Total Consolidated Companies	2,586	2,483	1,509	1,443	6,459	6,244
Affiliates ^{2,6}	472	447	356	339	698	645
Total Including Affiliates⁷	3,058	2,930	1,865	1,782	7,157	6,889

¹ Oil-equivalent conversion ratio is 6,000 cubic feet of natural gas = 1 barrel of crude oil.

² Includes synthetic oil: Canada, net

Venezuelan affiliate, net

³ Chevron sold its interest in a concession in the Democratic Republic of Congo in April 2018.

⁴ Located between Saudi Arabia and Kuwait. Production has been shut-in since May 2015.

⁵ Chevron sold its 12 percent nonoperated working interest in the Danish Underground Consortium in April 2019.

⁶ Volumes represent Chevron's share of production by affiliates, including Tengizchevroil in Kazakhstan; Petroboscan and Petropiar in Venezuela; and Angola LNG in Angola.

⁷ Volumes include natural gas consumed in operations of 638 million and 619 million cubic feet per day in 2019 and 2018, respectively. Total “as sold” natural gas volumes were 6,519 million and 6,270 million cubic feet per day for 2019 and 2018, respectively.

Production Outlook

The company estimates its average worldwide oil-equivalent production in 2020 will grow up to 3 percent compared to 2019, assuming a Brent crude oil price of \$60 per barrel and excluding the impact of anticipated 2020 asset sales. This estimate is subject to many factors and uncertainties, as described beginning on page 30. Refer to the “Review of Ongoing Exploration and Production Activities in Key Areas,” beginning on page 8, for a discussion of the company’s major crude oil and natural gas development projects.

Average Sales Prices and Production Costs per Unit of Production

Refer to Table IV on page 95 for the company’s average sales price per barrel of liquids (including crude oil, condensate and natural gas liquids) and per thousand cubic feet of natural gas produced, and the average production cost per oil-equivalent barrel for 2019, 2018 and 2017.

Gross and Net Productive Wells

The following table summarizes gross and net productive wells at year-end 2019 for the company and its affiliates:

	At December 31, 2019			
	Productive Oil Wells*		Productive Gas Wells*	
	Gross	Net	Gross	Net
United States	39,282	28,179	2,727	1,978
Other Americas	1,070	651	190	117
Africa	1,713	664	27	11
Asia	14,450	12,522	3,577	2,012
Australia/Oceania	540	303	103	27
Europe	27	5	—	—
Total Consolidated Companies	57,082	42,324	6,624	4,145
Affiliates	1,643	588	—	—
Total Including Affiliates	58,725	42,912	6,624	4,145
Multiple completion wells included above	629	352	147	116

* Gross wells represent the total number of wells in which Chevron has an ownership interest. Net wells represent the sum of Chevron’s ownership interest in gross wells.

Acreage

At December 31, 2019, the company owned or had under lease or similar agreements undeveloped and developed crude oil and natural gas properties throughout the world. The geographical distribution of the company’s acreage is shown in the following table:

Thousands of acres ¹	Undeveloped ²		Developed		Developed and Undeveloped	
	Gross	Net	Gross	Net	Gross	Net
United States	3,665	3,214	4,149	2,886	7,814	6,100
Other Americas	17,004	10,543	1,219	284	18,223	10,827
Africa	3,717	1,443	2,238	933	5,955	2,376
Asia	19,165	7,992	1,678	924	20,843	8,916
Australia/Oceania	10,882	5,697	2,061	812	12,943	6,509
Total Consolidated Companies	54,433	28,889	11,345	5,839	65,778	34,728
Affiliates	497	219	307	117	804	336
Total Including Affiliates	54,930	29,108	11,652	5,956	66,582	35,064

¹ Gross acres represent the total number of acres in which Chevron has an ownership interest. Net acres represent the sum of Chevron’s ownership interest in gross acres.

² The gross undeveloped acres that will expire in 2020, 2021 and 2022 if production is not established by certain required dates are 1,136, 2,644 and 4,180, respectively.

Delivery Commitments

The company sells crude oil and natural gas from its producing operations under a variety of contractual obligations. Most contracts generally commit the company to sell quantities based on production from specified properties, but some natural gas sales contracts specify delivery of fixed and determinable quantities, as discussed below.

In the United States, the company is contractually committed to deliver 951 billion cubic feet of natural gas to third parties from 2020 through 2022. The company believes it can satisfy these contracts through a combination of equity production from the company’s proved developed U.S. reserves and third-party purchases. These commitments are primarily based on contracts with indexed pricing terms.

Outside the United States, the company is contractually committed to deliver a total of 2,377 billion cubic feet of natural gas to third parties from 2020 through 2022 from operations in Australia, Colombia, Indonesia and the Philippines. These sales contracts contain variable pricing formulas that are generally referenced to the prevailing market price for crude oil, natural gas or other petroleum products at the time of delivery. The company believes it can satisfy these contracts from quantities available from production of the company's proved developed reserves in these countries.

Development Activities

Refer to Table I on page 92 for details associated with the company's development expenditures and costs of proved property acquisitions for 2019, 2018 and 2017.

The following table summarizes the company's net interest in productive and dry development wells completed in each of the past three years, and the status of the company's development wells drilling at December 31, 2019. A "development well" is a well drilled within the known area of a crude oil or natural gas reservoir to the depth of a stratigraphic horizon known to be productive.

	Wells Drilling*		Net Wells Completed					
	at 12/31/19		2019		2018		2017	
	Gross	Net	Prod.	Dry	Prod.	Dry	Prod.	Dry
United States	186	135	682	1	509	1	435	4
Other Americas	16	11	36	—	43	—	40	—
Africa	12	1	26	—	8	—	34	—
Asia	9	3	181	2	289	5	246	2
Australia/Oceania	—	—	—	—	1	—	—	—
Europe	1	—	1	—	2	—	4	—
Total Consolidated Companies	224	150	926	3	852	6	759	6
Affiliates	35	15	43	—	39	—	36	—
Total Including Affiliates	259	165	969	3	891	6	795	6

* Gross wells represent the total number of wells in which Chevron has an ownership interest. Net wells represent the sum of Chevron's ownership interest in gross wells.

Exploration Activities

Refer to Table I on page 92 for detail on the company's exploration expenditures and costs of unproved property acquisitions for 2019, 2018 and 2017.

The following table summarizes the company's net interests in productive and dry exploratory wells completed in each of the last three years, and the number of exploratory wells drilling at December 31, 2019. "Exploratory wells" are wells drilled to find and produce crude oil or natural gas in unknown areas and include delineation and appraisal wells, which are wells drilled to find a new reservoir in a field previously found to be productive of crude oil or natural gas in another reservoir or to extend a known reservoir.

	Wells Drilling*		Net Wells Completed					
	at 12/31/19		2019		2018		2017	
	Gross	Net	Prod.	Dry	Prod.	Dry	Prod.	Dry
United States	3	1	10	2	13	2	7	1
Other Americas	2	2	—	—	1	1	—	—
Africa	—	—	—	—	—	—	—	—
Asia	—	—	—	—	1	—	—	—
Australia/Oceania	1	—	—	—	—	—	—	—
Europe	—	—	—	—	—	1	—	1
Total Consolidated Companies	6	3	10	2	15	4	7	2
Affiliates	—	—	—	—	—	—	—	—
Total Including Affiliates	6	3	10	2	15	4	7	2

* Gross wells represent the total number of wells in which Chevron has an ownership interest. Net wells represent the sum of Chevron's ownership interest in gross wells.

Review of Ongoing Exploration and Production Activities in Key Areas

Chevron has exploration and production activities in many of the world's major hydrocarbon basins. Chevron's 2019 key upstream activities, some of which are also discussed in Management's Discussion and Analysis of Financial Condition and Results of Operations, beginning on page 32, are presented below. The comments include references to "total production" and "net production," which are defined under "Production" in Exhibit 99.1 on page E-7.

The discussion that follows references the status of proved reserves recognition for significant long-lead-time projects not on production as well as for projects recently placed on production. Reserves are not discussed for exploration activities or recent discoveries that have not advanced to a project stage, or for mature areas of production that do not have individual projects requiring significant levels of capital or exploratory investment.

United States

Upstream activities in the United States are primarily located in the midcontinent region, the Gulf of Mexico, California and the Appalachian Basin. Net daily oil-equivalent production in the United States during 2019 averaged 929,000 barrels.

The company's activities in the midcontinent region are primarily in New Mexico and Texas. During 2019, net daily production in these areas averaged 259,000 barrels of crude oil, 835 million cubic feet of natural gas and 120,000 barrels of natural gas liquids (NGLs).

In the Permian Basin of West Texas and southeast New Mexico, the company holds approximately 500,000 and 1,200,000 net acres of shale and tight resources in the Midland and Delaware basins, respectively. This acreage includes multiple stacked formations that enable production from several layers of rock in different geologic zones. Chevron has implemented a factory development strategy in the basin, which utilizes multiwell pads to drill a series of horizontal wells that are completed concurrently using hydraulic fracture stimulation. The company is also applying data analytics and technology to drive improvements in identifying well targets, in drilling and completions and in production performance. In 2019, the company's net daily production in the basin averaged 244,000 barrels of crude oil, 735 million cubic feet of natural gas and 115,000 barrels of NGLs. The company also holds approximately 360,000 net acres in the Central Basin Platform of the Permian Basin.

In July 2019, Chevron entered into a renewable wind power purchase agreement designed to cost-effectively power a portion of its Permian Basin operations.

During 2019, net daily production in the Gulf of Mexico averaged 200,000 barrels of crude oil, 112 million cubic feet of natural gas and 12,000 barrels of NGLs. Chevron is engaged in various operated and nonoperated exploration, development and production activities in the deepwater Gulf of Mexico. Chevron also holds nonoperated interests in several shelf fields.

The deepwater Jack and St. Malo fields are being jointly developed with a host floating production unit located between the two fields. Chevron has a 50 percent interest in the Jack Field and a 51 percent interest in the St. Malo Field. Both fields are company operated. The company has a 40.6 percent interest in the production host facility, which is designed to accommodate production from the Jack/St. Malo development and third-party tiebacks. Total daily production from the Jack and St. Malo fields in 2019 averaged 135,000 barrels of liquids (68,000 net) and 22 million cubic feet of natural gas (11 million net). Additional development opportunities for the Jack and St. Malo fields progressed in 2019. Stage 3 development drilling continued with the final well expected to be completed in first-half 2020. Proved reserves have been recognized for this phase. Two additional wells were added to the Jack Field in 2019, with one commencing production. The St. Malo Stage 4 waterflood project reached a final investment decision in August 2019. The project includes two new production wells, three injector wells, and topsides water injection equipment. First injection is expected in 2023. The Stage 4 multiphase subsea pump project also reached a final investment decision in May 2019. The initial recognition of proved reserves occurred in 2019 for the multiphase subsea pump project. The Jack and St. Malo fields have an estimated production life of 30 years.

The company has a 15.6 percent nonoperated working interest in the deepwater Mad Dog Field. In 2019, net daily production averaged 9,000 barrels of liquids and 1 million cubic feet of natural gas. Project execution continued in 2019 on the Mad Dog 2 Project. This phase of the plan is the development of the southwestern extension of the Mad Dog Field, including a new floating production platform with a design capacity of 140,000 barrels of crude oil per day. Drilling and fabrication are progressing as planned, and first oil is expected in 2021. Proved reserves have been recognized for the Mad Dog 2 Project.

Chevron has a 60 percent-owned and operated interest in the Big Foot Project, located in the Walker Ridge area. In 2019, net daily production averaged 11,000 barrels of crude oil and 2 million cubic feet of natural gas. Development drilling activities continued in 2019 with one well coming online and one additional well expected to come online by the end of 2020. The project has an estimated production life of 35 years.

At the 58 percent-owned and operated deepwater Tahiti Field, net daily production averaged 51,000 barrels of crude oil, 22 million cubic feet of natural gas and 3,000 barrels of NGLs. The final well from the Tahiti Vertical Expansion Project was completed in April 2019. The Tahiti Upper Sands Project includes topsides facility enhancements to process high gas rates and reached a final investment decision in July 2019. The initial recognition of proved reserves occurred in 2019 for this project. The Tahiti Field has an estimated remaining production life of 25 years.

Chevron holds a 25 percent nonoperated working interest in the Stampede Field, which is located in the Green Canyon area. In 2019, total daily production averaged 28,000 barrels of liquids (7,000 net) and 6 million cubic feet of natural gas (2 million net). The second and third injection wells were completed and brought online in 2019. Production ramp-up is expected to continue, with the completion of the final producing well expected in first-half 2020. The field has an estimated production life of 30 years.

Chevron has owned and operated interests of 62.9 to 75.4 percent in the unit areas containing the Anchor Field. Stage 1 of the Anchor development consists of a seven-well subsea development and a semi-submersible floating production unit. A final investment decision was reached in December 2019. The planned facility has a design capacity of 75,000 barrels of crude oil and 28 million cubic feet of natural gas per day. The initial recognition of proved reserves occurred in 2019 for this project.

Chevron has a 60 percent-owned and operated interest in the Ballymore Field located in the Mississippi Canyon area and a 40 percent nonoperated working interest in the Whale discovery located in the Perdido area. Two appraisal wells were completed in 2019 at the Ballymore Field. At the Whale discovery, a second appraisal well was completed in April 2019. Front-end engineering design activities were initiated for this project in August 2019. At the end of 2019, proved reserves had not been recognized for these projects.

During 2019 and early 2020, the company participated in four exploration and three appraisal wells in the deepwater Gulf of Mexico. In April 2019, a significant crude oil discovery was announced in the Blacktip prospect where the company holds a 20 percent nonoperated working interest. In October 2019, an oil discovery was announced in the Esox prospect within the Mississippi Canyon block 726, where Chevron holds a 21.4 percent nonoperated working interest. The well is expected to be tied into the Tubular Bells production facility in first quarter 2020.

In 2019, Chevron added 24 leases to the deepwater portfolio through two gulf-wide lease sales. The company also added 25 additional leases through multiple asset swaps.

In 2019, Chevron was one of the largest producers in California where net daily production averaged 122,000 barrels of crude oil and 16 million cubic feet of natural gas. Construction is underway on a new 29-megawatt solar farm to supply solar power at the Lost Hills Field and is expected to be completed in first-half 2020.

In December 2019, the company impaired its Appalachia shale assets and announced plans to evaluate strategic alternatives, including possible divestment. During 2019, net daily production in these areas averaged 262 million cubic feet of natural gas, 8,000 barrels of NGLs and 2,000 barrels of condensate.

Other Americas

“Other Americas” includes Argentina, Brazil, Canada, Colombia, Mexico, Suriname and Venezuela. Net daily oil-equivalent production from these countries averaged 216,000 barrels during 2019.

Canada Upstream interests in Canada are concentrated in Alberta, British Columbia and the offshore Atlantic region. The company also has discovered resource interests in the Beaufort Sea region of the Northwest Territories. Net daily oil-equivalent production during 2019 averaged 135,000 barrels, composed of 66,000 barrels of liquids, 95 million cubic feet of natural gas and 53,000 barrels of synthetic oil from oil sands.

Chevron holds a 26.9 percent nonoperated working interest in the Hibernia Field and a 23.7 percent nonoperated working interest in the unitized Hibernia Southern Extension areas offshore Atlantic Canada. Average net daily production in 2019 was 20,000 barrels of crude oil.

The company holds a 29.6 percent nonoperated working interest in the heavy oil Hebron Field, also offshore Atlantic Canada. Total daily crude production continued to ramp up during the year, averaging 112,000 barrels (32,000 net) in 2019. The field has an expected economic life of 30 years.

Chevron holds a 50 percent-owned and operated interest in Flemish Pass Basin Block EL 1138 with 339,000 net acres.

The company holds a 20 percent nonoperated working interest in the Athabasca Oil Sands Project (AOSP) in Alberta. Oil sands are mined from both the Muskeg River and the Jackpine mines, and bitumen is extracted from the oil sands and upgraded

into synthetic oil. Carbon dioxide emissions from the upgrader are reduced by the Quest carbon capture and storage facilities. In 2019, net daily synthetic oil production averaged 53,000 barrels.

The company holds approximately 196,000 net acres in the Duvernay Shale in Alberta. Chevron has a 70 percent-owned and operated interest in most of the Duvernay acreage. A total of 163 wells had been tied into production facilities by early 2020. In 2019, net daily production averaged 14,000 barrels of condensate and natural gas liquids and 79 million cubic feet of natural gas.

Chevron holds a 50 percent-owned and operated interest in the Kitimat LNG and Pacific Trail Pipeline projects and a 50 percent-owned and operated interest in the Liard and Horn River shale gas basins in British Columbia. In December 2019, the company wrote off its investments and announced plans to not move forward with the Kitimat LNG and Pacific Trail Pipeline projects.

Mexico The company owns and operates a 33.3 percent interest in Block 3 in the Perdido area of the Gulf of Mexico covering 139,000 net acres. Initial overall block seismic reprocessing activities concluded in December 2019. Seismic interpretation is commencing in early 2020. Chevron also holds a 37.5 percent-owned and operated interest in Block 22 in the deepwater Cuenca Salina area of the Gulf of Mexico covering 267,000 net acres. In October 2019, Chevron farmed into a 40 percent nonoperated interest in Blocks 20, 21 and 23 in the Cuenca Salina area in the deepwater Gulf of Mexico. Drilling has commenced on the first of two wells planned in 2020. These three blocks cover approximately 589,000 net acres.

Argentina Chevron holds a 50 percent nonoperated interest in the Loma Campana and Nambuena concessions in the Vaca Muerta Shale covering 73,000 net acres. In November 2019, Chevron increased its owned and operated interest from 85 to 100 percent in the El Trapial Field covering 111,000 net acres with both conventional production and Vaca Muerta Shale potential. Net daily oil-equivalent production in 2019 averaged 27,000 barrels, composed of 23,000 barrels of crude oil and 25 million cubic feet of natural gas.

Development activities continued in 2019 at the nonoperated Loma Campana concession in the Vaca Muerta Shale. During 2019, the drilling program continued with 48 horizontal wells drilled. This concession expires in 2048.

The company utilizes waterflood operations to mitigate declines at the operated El Trapial Field and continues to evaluate the potential of the Vaca Muerta Shale. Chevron drilled two horizontal wells in 2019. The El Trapial concession expires in 2032.

Evaluation of the nonoperated Nambuena Block continued with appraisal activity in 2019, including drilling of four horizontal wells. Chevron has a 90 percent-owned and operated interest with a four-year exploratory concession in Loma del Molle Norte Block, consisting of 43,000 net acres.

Brazil In March 2019, Chevron sold its 51.7 percent interest in the Frade concession and its 50 percent interest in Block CE-M715. In February 2020, the company initiated the process to sell its 37.5 percent nonoperated interest in the Papa-Terra oil field. Net daily oil equivalent production in 2019 averaged 8,000 barrels, composed of 8,000 barrels of crude oil and 2 million cubic feet of natural gas.

Chevron holds between 30 to 45 percent of both operated and nonoperated interests in blocks within the Campos and Santos basins. In October 2019, the company was a successful bidder in five deepwater blocks. The contracts for these blocks were executed in February 2020. The acquisition increased Chevron's acreage to eleven blocks in the Brazil pre-salt trend. Seismic data acquisition and environmental studies have been initiated with two exploration wells anticipated to be drilled in 2020.

Colombia In November 2019, the company signed an agreement to sell its interests in the offshore Chuchupa and onshore Ballena natural gas fields and expects to close this sale in first-half 2020. Net daily production in 2019 averaged 64 million cubic feet of natural gas.

Suriname Chevron holds a 33.3 percent and a 50 percent nonoperated working interest in deepwater Blocks 42 and 45 offshore Suriname, respectively. The deepwater blocks cover a combined area of approximately 1.1 million net acres.

Venezuela Chevron holds nonoperated interests in affiliate companies in Venezuela. Chevron's production activities in Venezuela are located in western Venezuela and the Orinoco Belt. Net daily oil-equivalent production during 2019 averaged 35,000 barrels, composed of 34,000 barrels of crude oil and 7 million cubic feet of natural gas.

Chevron has a 30 percent interest in the Petropiar affiliate that operates the heavy oil Huyapari Field. The production and upgrading project is located in the Orinoco Belt under an agreement expiring in 2033. Petropiar drilled 69 development wells in 2019. Chevron also holds a 39.2 percent interest in the Petroboscan affiliate that operates the Boscan Field in western Venezuela and a 25.2 percent interest in the Petroindependiente affiliate that operates the LL-652 Field in Lake Maracaibo,

both of which are under agreements expiring in 2026. Petroboscan drilled 26 development wells in 2019. For additional information on the company's activities in Venezuela, refer to Note 22 on page 88 under the heading "Other Contingencies."

Africa

In Africa, the company is engaged in upstream activities in Angola, Egypt, Nigeria and the Republic of Congo. Net daily oil-equivalent production from these countries averaged 412,000 barrels during 2019.

Angola The company operates and holds a 39.2 percent interest in Block 0, a concession adjacent to the Cabinda coastline, and a 31 percent operated interest in a production-sharing contract (PSC) for deepwater Block 14. The Block 0 concession extends through 2030. Development and production rights for the producing fields in Block 14 expire beginning in 2023. The majority of the production is held in leases that expire between 2027 and 2031. During 2019, net daily production averaged 97,000 barrels of liquids and 324 million cubic feet of natural gas.

In 2019, total daily production at Mafumeira Sul averaged 52,000 barrels of liquids (17,000 net) and 124 million cubic feet of natural gas (49 million net) exported to the Angola LNG plant. Additionally, three new wells were drilled in 2019.

Chevron has a 36.4 percent interest in Angola LNG Limited, which operates an onshore natural gas liquefaction plant in Soyo, Angola. The plant has the capacity to process 1.1 billion cubic feet of natural gas per day. This is the world's first LNG plant supplied with associated gas, where the natural gas is a byproduct of crude oil production. Feedstock for the plant originates from multiple fields and operators. Total daily production in 2019 averaged 746 million cubic feet of natural gas (272 million net) and 30,000 barrels of liquids (11,000 net).

Angola-Republic of Congo Joint Development Area Chevron operates and holds a 31.3 percent interest in the Lianzi Unitization Zone, located in an area shared equally by Angola and the Republic of Congo. Production from Lianzi is reflected in the totals for Angola and the Republic of Congo.

Republic of Congo Chevron has a 31.5 percent nonoperated working interest in the offshore Haute Mer permit areas (Nkossa, Nsoko and Moho-Bilondo). The permits for Nkossa, Nsoko and Moho-Bilondo expire in 2027, 2034 and 2030, respectively. Average net daily production in 2019 was 49,000 barrels of liquids. In June 2019, the company relinquished its 20.4 percent nonoperated working interest in the Haute Mer B permit area.

Egypt In December 2019, Chevron was announced as the successful bidder for one oil and gas exploration concession in Egypt's Red Sea.

Nigeria Chevron operates and holds a 40 percent interest in eight concessions in the onshore and near-offshore regions of the Niger Delta. In 2019, infill drilling programs continued in the Niger Delta. The company also holds acreage positions in three operated and six nonoperated deepwater blocks, with working interests ranging from 20 to 100 percent. The company's net daily oil-equivalent production for 2019 in Nigeria averaged 209,000 barrels, composed of 168,000 barrels of crude oil, 215 million cubic feet of natural gas and 5,000 barrels of LPG.

Chevron is the operator of the Escravos Gas Plant (EGP) with a total processing capacity of 680 million cubic feet per day of natural gas and LPG and condensate export capacity of 58,000 barrels per day. The company is also the operator of the 33,000-barrel-per-day Escravos Gas to Liquids facility. In addition, the company holds a 36.7 percent interest in the West African Gas Pipeline Company Limited affiliate, which supplies Nigerian natural gas to customers in Benin, Ghana and Togo.

The 40 percent-owned and operated Sonam natural gas field completed the seven well drilling program in first quarter 2019. The Sonam Field Development Project is designed to process natural gas through the EGP and deliver it to the domestic gas market. Net daily production in 2019 averaged 11,000 barrels of liquids and 89 million cubic feet of natural gas.

Chevron operates and holds a 67.3 percent interest in the Agbami Field, located in deepwater Oil Mining Lease (OML) 127 and OML 128. Infill drilling continued in 2019 to offset field decline. Additionally, Chevron holds a 30 percent nonoperated working interest in the Usan Field in OML 138. The leases that contain the Usan and Agbami Fields expire in 2023 and 2024, respectively.

Also in the deepwater area, the Aparo Field in OML 132 and OML 140 and the third-party-owned OML 118 Bonga SW Field share a common geologic structure and are planned to be developed jointly. Chevron holds a 16.6 percent nonoperated working interest in the unitized area. The development plan involves subsea wells tied back to a floating production, storage and offloading vessel. Work continues to progress towards a final investment decision. At the end of 2019, no proved reserves were recognized for this project.

In deepwater exploration, Chevron operates and holds a 55 percent interest in the deepwater Nsiko discoveries in OML 140. Chevron also holds a 30 percent nonoperated working interest in OML 138, which includes the Usan Field and several satellite discoveries, and a 27 percent interest in adjacent licenses OML 139 and OML 154. The company plans to continue evaluating development options for the multiple discoveries in the Usan area, including the Owowo Field, which straddles OML 139 and OML 154.

In 2019, the company initiated the process to evaluate a possible divestment of its 40 percent operated interest in OML 86 and OML 88.

Asia

In Asia, the company is engaged in upstream activities in Azerbaijan, Bangladesh, China, Indonesia, Kazakhstan, the Kurdistan Region of Iraq, Myanmar, the Partitioned Zone located between Saudi Arabia and Kuwait, the Philippines, Russia and Thailand. During 2019, net daily oil-equivalent production averaged 979,000 barrels in this region.

Azerbaijan In November 2019, Chevron signed an agreement to sell its 9.6 percent nonoperated interest in Azerbaijan International Operating Company and its 8.9 percent interest in the Baku-Tbilisi-Ceyhan (BTC) pipeline affiliate. The sale is expected to close in first-half 2020. Net daily oil-equivalent production in 2019 averaged 20,000 barrels, composed of 18,000 barrels of crude oil and 10 million cubic feet of natural gas.

Kazakhstan Chevron has a 50 percent interest in the Tengizchevroil (TCO) affiliate and an 18 percent nonoperated working interest in the Karachaganak Field. Net daily oil-equivalent production in 2019 averaged 430,000 barrels, composed of 339,000 barrels of liquids and 548 million cubic feet of natural gas.

TCO is developing the Tengiz and Korolev crude oil fields in western Kazakhstan under a concession agreement that expires in 2033. Net daily production in 2019 from these fields averaged 290,000 barrels of crude oil, 419 million cubic feet of natural gas and 21,000 barrels of NGLs. All of TCO's 2019 crude oil production was exported through the Caspian Pipeline Consortium (CPC) pipeline.

The Future Growth and Wellhead Pressure Management Project (FGP/WPMP) at Tengiz is managed as a single integrated project. The FGP is designed to increase total daily production by about 260,000 barrels of crude oil and to expand the utilization of sour gas injection technology proven in existing operations to increase ultimate recovery from the reservoir. The WPMP is designed to maintain production levels in existing plants as reservoir pressure declines. During 2019, the pipe rack modules and the gas turbine generators were installed, and fabrication in three of the four yards was completed. All initial production wells have been drilled and completed. The WPMP portion is expected to start up in late 2022, with the remaining facilities expected to come online in mid-2023. Proved reserves have been recognized for the FGP/WPMP.

The Karachaganak Field is located in northwest Kazakhstan, and operations are conducted under a PSC that expires in 2038. During 2019, net daily production averaged 28,000 barrels of liquids and 129 million cubic feet of natural gas. Most of the exported liquids were transported through the CPC pipeline during 2019. Work continues to identify the optimal scope for the future expansion of the field. At the end of 2019, proved reserves had not been recognized for future expansion.

Kazakhstan/Russia Chevron has a 15 percent interest in the CPC. In May 2019, CPC shareholders announced a final investment decision on a debottlenecking project, which is expected to further increase capacity. During 2019, CPC transported an average of 1.4 million barrels of crude oil per day, composed of 1.2 million barrels per day from Kazakhstan and 160,000 barrels per day from Russia.

Bangladesh Chevron operates and holds a 100 percent interest in Block 12 (Bibiyana Field) and Blocks 13 and 14 (Jalalabad and Moulavi Bazar fields). The rights to produce from Jalalabad expire in 2030, from Moulavi Bazar in 2033 and from Bibiyana in 2034. Net daily oil-equivalent production in 2019 averaged 110,000 barrels, composed of 638 million cubic feet of natural gas and 4,000 barrels of condensate.

Myanmar Chevron has a 28.3 percent nonoperated working interest in a PSC for the production of natural gas from the Yadana, Badamayar and Sein fields, within Blocks M5 and M6, in the Andaman Sea. The PSC expires in 2028. The company also has a 28.3 percent nonoperated working interest in a pipeline company that transports natural gas to the Myanmar-Thailand border for delivery to power plants in Thailand. Net daily natural gas production in 2019 averaged 93 million cubic feet.

Chevron relinquished its 55 percent-owned and operated interest in Blocks AD3 and A5 in March 2019.

Thailand Chevron holds operated interests in the Pattani Basin, located in the Gulf of Thailand, with ownership ranging from 35 percent to 80 percent. Concessions for producing areas within this basin expire between 2022 and 2035. Chevron also has a 16 percent nonoperated working interest in the Arthit Field located in the Malay Basin. Concessions for the

producing areas within this basin expire between 2036 and 2040. Net daily oil-equivalent production in 2019 averaged 238,000 barrels, composed of 65,000 barrels of crude oil and condensate and 1.0 billion cubic feet of natural gas.

The company holds ownership ranging from 70 to 80 percent of the Erawan concession, which expires in 2022. Erawan concession's net average daily production in 2019 was 44,000 barrels of crude oil and condensate and 804 million cubic feet of natural gas.

Chevron also has a 35 percent-owned and operated interest in the Ubon Project in Block 12/27, development plans are being evaluated and are expected to include multiple wellhead platforms and infield pipelines to deliver production to a Central Processing Platform with a floating, production, storage and offloading vessel for oil export. At the end of 2019, proved reserves had not been recognized for this project.

Chevron holds between 30 and 80 percent operated and nonoperated working interests in the Thailand-Cambodia overlapping claims area that are inactive, pending resolution of border issues between Thailand and Cambodia.

China Chevron has nonoperated working interests in several areas in China. The company's net daily production in 2019 averaged 16,000 barrels of crude oil and 93 million cubic feet of natural gas.

In October 2019, Chevron transferred operatorship of the Chuandongbei Project and now has a 49 percent nonoperated working interest in the project, including the Loujiazhai and Gunziping natural gas fields located onshore in the Sichuan Basin.

In April 2019, the company relinquished its interest in the Tienshanpo, Dukouhe and Qilibei natural gas fields.

The company also has nonoperated working interests of 32.7 percent in Block 16/19 in the Pearl River Mouth Basin, 24.5 percent in the Qinhuangdao (QHD) 32-6 Block, and 16.2 percent in Block 11/19 in the Bohai Bay. The PSCs for these producing assets expire between 2022 and 2028.

Philippines The company signed an agreement in October 2019 to sell its 45 percent nonoperated working interest in the offshore Malampaya natural gas field. The sale is expected to close in first-half 2020. Net daily oil-equivalent production in 2019 averaged 26,000 barrels, composed of 136 million cubic feet of natural gas and 3,000 barrels of condensate.

Indonesia Chevron has working interests through various PSCs in Indonesia. In Sumatra, the company holds a 100 percent-owned and operated interest in the Rokan PSC, which expires in 2021. The company operates and holds a 62 percent interest in two PSCs in the Kutei Basin (Rapak and Ganal), located offshore eastern Kalimantan. Additionally, in offshore eastern Kalimantan, the company operates a 72 percent interest in Makassar Strait. The PSCs for offshore eastern Kalimantan expire in 2027 and 2028. Net daily oil-equivalent production in 2019 averaged 109,000 barrels, composed of 101,000 barrels of liquids and 52 million cubic feet of natural gas.

Chevron has concluded that the Indonesia Deepwater Development held by the Kutei Basin PSCs does not compete in its portfolio and is evaluating strategic alternatives for the company's 62 percent-owned and operated interest.

Partitioned Zone Chevron holds a concession to operate the Kingdom of Saudi Arabia's 50 percent interest in the hydrocarbon resources in the onshore area of the Partitioned Zone between Saudi Arabia and Kuwait. The concession expires in 2039. Production has been shut in since May 2015 as result of difficulties securing work and equipment permits and a dispute between Saudi Arabia and Kuwait. In December 2019, the governments of Saudi Arabia and Kuwait signed a memorandum of understanding to resolve the dispute and allow production to restart in the Partitioned Zone. In mid-February 2020, pre-startup activities commenced. The company expects production to ramp up to pre-shut-in levels within one to two years.

Kurdistan Region of Iraq The company operates and holds a 50 percent interest in the Sarta PSC, which expires in 2047, and a 40 percent interest in the Qara Dagh PSC, which expires in October 2020. In January 2019, Sarta Stage 1A Project reached a final investment decision. Site civil work and construction began in mid-2019, and first oil is expected in second-half 2020. At the end of 2019, proved reserves had not been recognized for this project. Chevron will operate the Sarta block through 2021 and plans to transition to partner operations thereafter.

Europe

In Europe, net oil-equivalent production averaged 67,000 barrels per day during 2019.

United Kingdom The company's net daily oil-equivalent production in 2019 averaged 62,000 barrels, composed of 44,000 barrels of liquids and 108 million cubic feet of natural gas.

Chevron holds a 19.4 percent nonoperated working interest in the Clair Field, located west of the Shetland Islands. The Clair Ridge Project is the second development phase of the Clair Field, with a design capacity of 120,000 barrels of crude oil and

100 million cubic feet of natural gas per day. Production continues to ramp up with three new wells added in 2019. The Clair Field has an estimated production life extending until 2050.

In January 2019, Chevron sold its 40 percent interest in the undeveloped Rosebank Field. In November 2019, the company sold its interests in producing assets in the Central North Sea, including the Captain Field.

Denmark Chevron sold its 12 percent nonoperated working interest in the Danish Underground Consortium in April 2019.

Australia/Oceania

Chevron is Australia's largest producer of LNG. During 2019, net daily oil-equivalent production averaged 455,000 barrels.

Australia Upstream activities in Australia are concentrated offshore Western Australia, where the company is the operator of two major LNG projects, Gorgon and Wheatstone, and has a nonoperated working interest in the North West Shelf (NWS) Venture and exploration acreage in the Carnarvon Basin and Browse Basin. During 2019, the company's net daily production averaged 45,000 barrels of liquids and 2.5 billion cubic feet of natural gas.

Chevron holds a 47.3 percent-owned and operated interest in the Gorgon Project, which includes the development of the Gorgon and Jansz-Io fields. The project includes a carbon dioxide sequestration facility, which achieved start-up in August 2019. The company commenced drilling 11 new wells for Gorgon Stage 2 during 2019. The Gorgon Stage 2 project is expected to be completed in 2022. Total daily production in 2019 averaged 16,000 barrels of condensate (8,000 barrels net) and 2.3 billion cubic feet of natural gas (1.1 billion net). The project's estimated economic life exceeds 40 years.

The Jansz-Io Compression Project entered front-end engineering and design in March 2019 and is planned to provide access to compression for the Jansz-Io field. The project supports maintaining gas supply to the Gorgon LNG plant and maximizing the recovery of fields accessing the Jansz trunkline.

Chevron holds an 80.2 percent interest in the offshore licenses and a 64.1 percent-owned and operated interest in the LNG facilities associated with the Wheatstone Project. The project includes the development of the Wheatstone and Iago fields, a two-train, 8.9 million-metric-ton-per-year LNG facility, and a domestic gas plant. The onshore facilities are located at Ashburton North on the coast of Western Australia. The total production capacity for the Wheatstone and Iago fields and nearby third-party fields is expected to be approximately 1.6 billion cubic feet of natural gas and 30,000 barrels of condensate per day. Total daily production averaged 22,000 barrels of condensate (18,000 net) and 1.2 billion cubic feet of natural gas (943 million net) in 2019. The project's estimated economic life exceeds 30 years.

Chevron has a 16.7 percent nonoperated working interest in the NWS Venture in Western Australia.

Chevron holds 50 percent-owned and operated interests in four exploration permits in the northern Carnarvon Basin. Chevron continued to evaluate exploration potential in the Carnarvon Basin during 2019. The company holds nonoperated working interests ranging from 24.8 percent to 50 percent in three exploration blocks in the Browse Basin. Relinquishment of Chevron's offshore blocks in the Bight Basin was finalized in April 2019.

Chevron has a 100 percent-owned and operated interest in the Clio, Acme and Acme West fields. The company is collaborating with other Carnarvon Basin participants to assess the opportunity of Clio Acme being developed through shared utilization of existing infrastructure.

New Zealand In September 2019, Chevron relinquished its 50 percent operated interest in three deepwater exploration permits in the offshore Pegasus and East Coast basins.

Sales of Natural Gas and Natural Gas Liquids

The company sells natural gas and natural gas liquids (NGLs) from its producing operations under a variety of contractual arrangements. In addition, the company also makes third-party purchases and sales of natural gas and NGLs in connection with its supply and trading activities.

During 2019, U.S. and international sales of natural gas averaged 4.0 billion and 5.9 billion cubic feet per day, respectively, which includes the company's share of equity affiliates' sales. Outside the United States, substantially all of the natural gas sales from the company's producing interests are from operations in Angola, Argentina, Australia, Bangladesh, Canada, Colombia, Kazakhstan, Indonesia, Myanmar, Nigeria, the Philippines, Thailand and the United Kingdom.

U.S. and international sales of NGLs averaged 231,000 and 106,000 barrels per day, respectively, in 2019.

Refer to "Selected Operating Data," on page 37 in Management's Discussion and Analysis of Financial Condition and Results of Operations, for further information on the company's sales volumes of natural gas and natural gas liquids. Refer also to

“Delivery Commitments” beginning on page 6 for information related to the company’s delivery commitments for the sale of crude oil and natural gas.

Downstream

Refining Operations

At the end of 2019, the company had a refining network capable of processing 1.7 million barrels of crude oil per day. Operable capacity at December 31, 2019, and daily refinery inputs for 2017 through 2019 for the company and affiliate refineries are summarized in the table below.

Average crude oil distillation capacity utilization was 90 percent in 2019 and 93 percent in 2018. At the U.S. refineries, crude oil distillation capacity utilization averaged 91 percent in 2019, compared with 97 percent in 2018. Chevron processes both imported and domestic crude oil in its U.S. refining operations. Imported crude oil accounted for about 65 percent and 70 percent of Chevron’s U.S. refinery inputs in 2019 and 2018, respectively.

In the United States, the company continued work on projects to improve refinery flexibility and reliability. At the Richmond Refinery in California, production on the new hydrogen plant reached full operational capacity in January 2019. At the refinery in Salt Lake City, Utah, construction continued on the alkylation retrofit project with more than 100 modules installed. Project start-up is expected in first-half 2021.

In May 2019, the company completed the acquisition of the Pasadena refinery in Texas. The Pasadena Refinery has the capacity to process 110,000 barrels per day of light crude oil and enables the company to leverage its Permian Basin upstream assets.

Outside the United States, the company has three large refineries in South Korea, Singapore and Thailand. The Singapore Refining Company (SRC), a 50 percent-owned joint venture, has a total capacity of 290,000 barrels of crude per day and manufactures a wide range of petroleum products. Recent upgrades have enabled SRC to produce higher-quality gasoline that meets stricter emission standards. The 50 percent-owned, GS Caltex (GSC) operated, Yeosu Refinery in South Korea remains one of the world’s largest refineries with a total crude capacity of 800,000 barrels per day. In February 2019, a final investment decision was reached on the olefins mixed-feed cracker and associated polyethylene unit with first production planned for 2021. The company’s 60.6 percent-owned refinery in Map Ta Phut, Thailand, continues to supply high-quality petroleum products through the Caltex brand into regional markets.

Petroleum Refineries: Locations, Capacities and Inputs

Capacities and inputs in thousands of barrels per day

Locations	Number	December 31, 2019		Refinery Inputs		
		Operable Capacity	2019	2018	2017	
Pascagoula	Mississippi	1	350	358	332	349
El Segundo	California	1	276	241	273	251
Richmond	California	1	257	236	249	248
Pasadena ¹	Texas	1	106	58	—	—
Salt Lake City	Utah	1	55	54	51	53
Total Consolidated Companies — United States		5	1,044	947	905	901
Map Ta Phut	Thailand	1	166	134	160	152
Cape Town ²	South Africa	—	—	—	49	68
Burnaby, B.C. ³	Canada	—	—	—	—	40
Total Consolidated Companies — International		1	166	134	209	260
Affiliates	Various Locations	3	538	483	494	500
Total Including Affiliates — International		4	704	617	703	760
Total Including Affiliates — Worldwide		9	1,748	1,564	1,608	1,661

¹ In May 2019, the company acquired the Pasadena, TX refinery.

² In September 2018, the company sold its interest in the Cape Town refinery.

³ In September 2017, the company sold the Burnaby, B.C. refinery.

Marketing Operations

The company markets petroleum products under the principal brands of “Chevron,” “Texaco” and “Caltex” throughout many parts of the world. The following table identifies the company’s and affiliates’ refined products sales volumes, excluding intercompany sales, for the three years ended December 31, 2019.

Refined Products Sales Volumes

Thousands of barrels per day	2019	2018	2017
United States			
Gasoline	667	627	625
Jet Fuel	256	255	242
Diesel/Gas Oil	191	188	179
Residual Fuel Oil	42	48	48
Other Petroleum Products ¹	94	100	103
Total United States	1,250	1,218	1,197
International²			
Gasoline	289	336	365
Jet Fuel	238	276	274
Diesel/Gas Oil	427	446	490
Residual Fuel Oil	167	177	162
Other Petroleum Products ¹	206	202	202
Total International	1,327	1,437	1,493
Total Worldwide²	2,577	2,655	2,690
	379	373	366

¹ Principally naphtha, lubricants, asphalt and coke.

² Includes share of affiliates’ sales:

In the United States, the company markets under the Chevron and Texaco brands. At year-end 2019, the company supplied directly or through retailers and marketers to approximately 7,900 Chevron- and Texaco- branded service stations, primarily in the southern and western states. Approximately 310 of these outlets are company-owned or -leased stations.

Outside the United States, Chevron supplied directly or through retailers and marketers approximately 5,100 branded service stations, including affiliates. The company markets in Latin America using the Texaco brand. In 2019, Chevron continued to grow, expanding to nearly 200 branded stations in northwestern Mexico at the end of the year. The company also operates through affiliates under various brand names. In the Asia-Pacific region and the Middle East, the company uses the Caltex brand. In South Korea, the company operates through its 50 percent-owned affiliate, GSC.

In December 2019, the company signed an agreement to acquire a network of terminals and service stations in Australia, which is expected to close in second-half 2020, pending regulatory approval.

Chevron markets commercial aviation fuel at approximately 70 airports worldwide. The company also markets an extensive line of lubricant and coolant products under the product names Havoline, Delo, Ursa, Meropa, Rando, Clarity and Taro in the United States and worldwide under the three brands: Chevron, Texaco and Caltex.

Chemicals Operations

Chevron Oronite Company develops, manufactures and markets performance additives for lubricating oils and fuels and conducts research and development for additive component and blended packages. At the end of 2019, the company manufactured, blended or conducted research at 10 locations around the world. Construction progressed in 2019 on a lubricant additive blending and shipping plant in Ningbo, China. Commercial production is anticipated to begin in 2021.

Chevron owns a 50 percent interest in its Chevron Phillips Chemical Company LLC (CPChem) affiliate. CPChem produces olefins, polyolefins and alpha olefins and is a supplier of aromatics and polyethylene pipe, in addition to participating in the specialty chemical and specialty plastics markets. At the end of 2019, CPChem owned or had joint-venture interests in 28 manufacturing facilities and two research and development centers around the world.

In 2019, CPChem announced agreements to jointly develop petrochemical complexes in Qatar and the U.S. Gulf Coast. Engineering and design for these projects is underway.

Chevron also maintains a role in the petrochemical business through the operations of GSC, the company’s 50 percent-owned affiliate. GSC manufactures aromatics, including benzene, toluene and xylene. These base chemicals are used to produce a range of products, including adhesives, plastics and textile fibers. GSC also produces polypropylene, which is used to make automotive and home appliance parts, food packaging, laboratory equipment and textiles.

GSC reached a final investment decision in February 2019 to build an olefins mixed-feed cracker and polyethylene unit within the existing refining and aromatics facilities in Yeosu, South Korea.

Transportation

Pipelines Chevron owns and operates a network of crude oil, natural gas and product pipelines and other infrastructure assets in the United States. In addition, Chevron operates pipelines for its 50 percent-owned CPChem affiliate. The company also has direct and indirect interests in other U.S. and international pipelines.

Refer to pages 11 through 13 in the Upstream section for information on the West African Gas Pipeline, the Baku-Tbilisi- Ceyhan Pipeline, and the Caspian Pipeline Consortium.

Shipping The company's marine fleet includes both U.S. and foreign flagged vessels. The operated fleet consists of conventional crude tankers, product carriers and LNG carriers. These vessels transport crude oil, LNG, refined products and feedstock in support of the company's global upstream and downstream businesses.

Other Businesses

Research and Technology Chevron's energy technology organization supports upstream and downstream businesses. The company conducts research, develops and qualifies technology, and provides technical services and competency development. The disciplines cover earth sciences, reservoir and production engineering, drilling and completions, facilities engineering, manufacturing, process technology, catalysis, technical computing and health, environment and safety.

Chevron's information technology organization integrates computing, telecommunications, data management, cybersecurity and network technology to provide a digital infrastructure to enable Chevron's global operations and business processes.

In 2019, Chevron continued its involvement in the Oil and Gas Climate Initiative (OGCI), a global collaboration focused on the industry's efforts to take actions to accelerate and participate in the energy transition. OGCI members seek to lower carbon footprints of energy, industry, and transportation value chains. This includes work to reduce methane emissions, reduce the carbon intensity of upstream oil and gas emissions, and facilitate large-scale commercial investment in carbon capture, use and storage. OGCI Climate Investments is a \$1 billion-plus investment fund set up by the OGCI member companies. OGCI Climate Investments focuses on three objectives: reducing methane emissions during the production, delivery and usage of oil and gas; reducing carbon dioxide emissions by increasing energy efficiency in power, industry and transport; and recycling and storing carbon dioxide produced during power generation or industrial processes by using it in products or storing it. As a member of OGCI, Chevron has committed to contribute \$100 million to this fund.

Chevron's technology ventures unit supports Chevron's upstream and downstream businesses by bridging the gap between business unit needs and emerging technology solutions developed externally in areas of emerging materials, water management, information technology, power systems and production enhancement. In 2018, Chevron established the Chevron Future Energy Fund with an initial commitment of \$100 million to invest in breakthrough technologies that enable the ongoing energy transition. Our investments and partnerships have focused on areas such as alternative energy and emerging technologies, transportation and infrastructure, capturing and reducing emissions, and energy storage.

Some of the investments the company makes in the areas described above are in new or unproven technologies and business processes, and ultimate technical or commercial successes are not certain. Refer to Note 25 on page 89 for a summary of the company's research and development expenses.

Environmental Protection The company designs, operates and maintains its facilities to avoid potential spills or leaks and to minimize the impact of those that may occur. Chevron requires its facilities and operations to have operating standards and processes and emergency response plans that address significant risks identified through site-specific risk and impact assessments. Chevron also requires that sufficient resources be available to execute these plans. In the unlikely event that a major spill or leak occurs, Chevron also maintains a Worldwide Emergency Response Team comprised of employees who are trained in various aspects of emergency response, including post-incident remediation.

To complement the company's capabilities, Chevron maintains active membership in international oil spill response cooperatives, including the Marine Spill Response Corporation, which operates in U.S. territorial waters, and Oil Spill Response, Ltd., which operates globally. The company is a founding member of the Marine Well Containment Company, whose primary mission is to expediently deploy containment equipment and systems to capture and contain crude oil in the unlikely event of a future loss of control of a deepwater well in the Gulf of Mexico. In addition, the company is a member of

the Subsea Well Response Project, which has the objective to further develop the industry's capability to contain and shut in subsea well control incidents in different regions of the world.

The company is committed to improving energy efficiency in its day-to-day operations and is required to comply with the greenhouse gas-related laws and regulations to which it is subject. Refer to Item 1A. Risk Factors on pages 18 through 21 for further discussion of greenhouse gas regulation and climate change and the associated risks to Chevron's business.

Refer to Management's Discussion and Analysis of Financial Condition and Results of Operations on page 44 for additional information on environmental matters and their impact on Chevron, and on the company's 2019 environmental expenditures. Refer to page 44 and Note 22 beginning on page 87 for a discussion of environmental remediation provisions and year-end reserves.

Item 1A. Risk Factors

Chevron is a global energy company and its operating and financial results are subject to a variety of risks inherent in the global oil, gas, and petrochemical businesses. Many of these risks are not within the company's control and could materially impact the company's results of operations and financial condition.

Chevron is exposed to the effects of changing commodity prices Chevron is primarily in a commodities business that has a history of price volatility. The single largest variable that affects the company's results of operations is the price of crude oil, which can be influenced by general economic conditions, industry production and inventory levels, technology advancements, production quotas or other actions that might be imposed by the Organization of Petroleum Exporting Countries (OPEC) or other producers, weather-related damage and disruptions due to other natural or human causes beyond our control, competing fuel prices, and geopolitical risks. Chevron evaluates the risk of changing commodity prices as a core part of its business planning process. An investment in the company carries significant exposure to fluctuations in global crude oil prices.

Extended periods of low prices for crude oil can have a material adverse impact on the company's results of operations, financial condition and liquidity. Among other things, the company's upstream earnings, cash flows, and capital and exploratory expenditure programs could be negatively affected, as could its production and proved reserves. Upstream assets may also become impaired. Downstream earnings could be negatively affected because they depend upon the supply and demand for refined products and the associated margins on refined product sales. A significant or sustained decline in liquidity could adversely affect the company's credit ratings, potentially increase financing costs and reduce access to capital markets. The company may be unable to realize anticipated cost savings, expenditure reductions and asset sales that are intended to compensate for such downturns. In some cases, liabilities associated with divested assets may return to the company when an acquirer of those assets subsequently declares bankruptcy. In addition, extended periods of low commodity prices can have a material adverse impact on the results of operations, financial condition and liquidity of the company's suppliers, vendors, partners and equity affiliates upon which the company's own results of operations and financial condition depends.

The scope of Chevron's business will decline if the company does not successfully develop resources The company is in an extractive business; therefore, if it is not successful in replacing the crude oil and natural gas it produces with good prospects for future organic opportunities or through acquisitions, the company's business will decline. Creating and maintaining an inventory of projects depends on many factors, including obtaining and renewing rights to explore, develop and produce hydrocarbons; drilling success; reservoir optimization; ability to bring long-lead-time, capital-intensive projects to completion on budget and on schedule; and efficient and profitable operation of mature properties.

The company's operations could be disrupted by natural or human causes beyond its control Chevron operates in both urban areas and remote and sometimes inhospitable regions. The company's operations are therefore subject to disruption from natural or human causes beyond its control, including physical risks from hurricanes, severe storms, floods and other forms of severe weather, war, accidents, civil unrest, political events, fires, earthquakes, system failures, cyber threats, terrorist acts and epidemic or pandemic diseases such as the coronavirus, any of which could result in suspension of operations or harm to people or the natural environment.

Chevron's risk management systems are designed to assess potential physical and other risks to its operations and assets and to plan for their resiliency. While capital investment reviews and decisions incorporate potential ranges of physical risks such as storm severity and frequency, sea level rise, air and water temperature, precipitation, fresh water access, wind speed, and earthquake severity, among other factors, it is difficult to predict with certainty the timing, frequency or severity of such events, any of which could have a material adverse effect on the company's results of operations or financial condition.

Cyberattacks targeting Chevron's process control networks or other digital infrastructure could have a material adverse impact on the company's business and results of operations There are numerous and evolving risks to Chevron's cybersecurity and privacy from cyber threat actors, including criminal hackers, state-sponsored intrusions, industrial espionage and employee malfeasance. These cyber threat actors, whether internal or external to Chevron, are becoming more sophisticated and coordinated in their attempts to access the company's information technology (IT) systems and data, including the IT systems of cloud providers and other third parties with whom the company conducts business. Although Chevron devotes significant resources to prevent unwanted intrusions and to protect its systems and data, whether such data is housed internally or by external third parties, the company has experienced and will continue to experience cyber incidents of varying degrees in the conduct of its business. Cyber threat actors could compromise the company's process control networks or other critical systems and infrastructure, resulting in disruptions to its business operations, injury to people, harm to the environment or its assets, disruptions in access to its financial reporting systems, or loss, misuse or corruption of its critical data and proprietary information, including without limitation its intellectual property and business information and that of its employees, customers, partners and other third parties. Any of the foregoing can be exacerbated by a delay or failure to detect a cyber incident. Further, the company has exposure to cyber incidents and the negative impacts of such incidents related to its critical data and proprietary information housed on third-party IT systems, including the cloud. Additionally, authorized third-party IT systems can be compromised and used to gain access or introduce malware to Chevron's IT systems during the normal course of business. The company has limited control and visibility over such third-party IT systems. Cyber events could result in significant financial losses, legal or regulatory violations, reputational harm, and legal liability and could ultimately have a material adverse effect on the company's business and results of operations.

The company's operations have inherent risks and hazards that require significant and continuous oversight Chevron's results depend on its ability to identify and mitigate the risks and hazards inherent to operating in the crude oil and natural gas industry. The company seeks to minimize these operational risks by carefully designing and building its facilities and conducting its operations in a safe and reliable manner. However, failure to manage these risks effectively could impair our ability to operate and result in unexpected incidents, including releases, explosions or mechanical failures resulting in personal injury, loss of life, environmental damage, loss of revenues, legal liability and/or disruption to operations. Chevron has implemented and maintains a system of corporate policies, processes and systems, behaviors and compliance mechanisms to manage safety, health, environmental, reliability and efficiency risks; to verify compliance with applicable laws and policies; and to respond to and learn from unexpected incidents. In certain situations where Chevron is not the operator, the company may have limited influence and control over third parties, which may limit its ability to manage and control such risks.

Chevron's business subjects the company to liability risks from litigation or government action The company produces, transports, refines and markets potentially hazardous materials, and it purchases, handles and disposes of other potentially hazardous materials in the course of its business. Chevron's operations also produce byproducts, which may be considered pollutants. Often these operations are conducted through joint ventures over which the company may have limited influence and control. Any of these activities could result in liability or significant delays in operations arising from private litigation or government action. For example, liability or delays could result from an accidental, unlawful discharge or from new conclusions about the effects of the company's operations on human health or the environment. In addition, to the extent that societal pressures or political or other factors are involved, it is possible that such liability could be imposed without regard to the company's causation of or contribution to the asserted damage, or to other mitigating factors.

For information concerning some of the litigation in which the company is involved, see Note 14 to the Consolidated Financial Statements, beginning on page 72.

The company does not insure against all potential losses, which could result in significant financial exposure The company does not have commercial insurance or third-party indemnities to fully cover all operational risks or potential liability in the event of a significant incident or series of incidents causing catastrophic loss. As a result, the company is, to a substantial extent, self-insured for such events. The company relies on existing liquidity, financial resources and borrowing capacity to meet short-term obligations that would arise from such an event or series of events. The occurrence of a significant incident or unforeseen liability for which the company is self-insured, not fully insured or for which insurance recovery is significantly delayed could have a material adverse effect on the company's results of operations or financial condition.

Political instability and significant changes in the legal and regulatory environment could harm Chevron's business The company's operations, particularly exploration and production, can be affected by changing economic, regulatory and political environments in the various countries in which it operates. As has occurred in the past, actions could be taken by governments to increase public ownership of the company's partially or wholly owned businesses, to force contract renegotiations, or to impose additional taxes or royalties. In certain locations, governments have proposed or imposed

restrictions on the company's operations, trade, currency exchange controls, burdensome taxes, and public disclosure requirements that might harm the company's competitiveness or relations with other governments or third parties. In other countries, political conditions have existed that may threaten the safety of employees and the company's continued presence in those countries, and internal unrest, acts of violence or strained relations between a government and the company or other governments may adversely affect the company's operations. Those developments have, at times, significantly affected the company's operations and results and are carefully considered by management when evaluating the level of current and future activity in such countries. Further, Chevron is required to comply with U.S. sanctions and other trade laws and regulations which, depending upon their scope, could adversely impact the company's operations in certain countries. For example, with respect to our operations in Venezuela as discussed in Note 22 to the Consolidated Financial Statements, "Other Contingencies and Commitments - Other Contingencies," future events could result in the environment in Venezuela becoming more challenged, which could lead to increased business disruption and volatility in the associated financial results. In addition, litigation or changes in national, state or local environmental regulations or laws, including those designed to stop or impede the development or production of oil and gas, such as those related to the use of hydraulic fracturing or bans on drilling, could adversely affect the company's current or anticipated future operations and profitability.

Regulation of greenhouse gas (GHG) emissions has increased and could continue to increase Chevron's operational costs and reduce demand for Chevron's hydrocarbon and other products In the years ahead, companies in the energy industry, like Chevron, may be challenged by a further increase in international and domestic regulation relating to GHG emissions. Like any significant changes in the regulatory environment, GHG regulation could have the impact of curtailing profitability in the oil and gas sector or rendering the extraction of the company's oil and gas resources economically infeasible. Although the IEA's World Energy Outlook scenarios anticipate oil and gas continuing to make up a significant portion of the global energy mix through 2040 and beyond given their respective advantages in transportation and power generation, if a new onset of regulation contributes to a decline in the demand for the company's products, this could have a material adverse effect on the company and its financial condition.

International agreements and national, regional and state legislation and regulatory measures that aim to limit or reduce GHG emissions are currently in various stages of implementation. For example, the Paris Agreement went into effect in November 2016, and a number of countries are studying and may adopt additional policies to meet their Paris Agreement goals. In some jurisdictions, the company is already subject to currently implemented programs such as the U.S. Renewable Fuel Standard program, the European Union Emissions Trading System, and the California cap-and-trade program and related low carbon fuel standard obligations. Other jurisdictions are considering adopting or are in the process of implementing laws or regulations to directly regulate GHG emissions through similar or other mechanisms such as, for example, via a carbon tax (e.g., Singapore and Canada) or via a cap-and-trade program (e.g., California, Mexico and China). The landscape continues to be in a state of constant re-assessment and legal challenge with respect to these laws and regulations, making it difficult to predict with certainty the ultimate impact they will have on the company in the aggregate.

GHG emissions-related laws and related regulations and the effects of operating in a potentially carbon-constrained environment may result in increased and substantial capital, compliance, operating and maintenance costs and could, among other things, reduce demand for hydrocarbons and the company's hydrocarbon-based products, make the company's products more expensive, adversely affect the economic feasibility of the company's resources, and adversely affect the company's sales volumes, revenues and margins. GHG emissions (e.g., carbon dioxide and methane) that could be regulated include, among others, those associated with the company's exploration and production of hydrocarbons such as crude oil and natural gas; the upgrading of production from oil sands into synthetic oil; power generation; the conversion of crude oil and natural gas into refined hydrocarbon products; the processing, liquefaction and regasification of natural gas; the transportation of crude oil, natural gas and related products and consumers' or customers' use of the company's hydrocarbon products. Many of these activities, such as consumers' and customers' use of the company's products and substitute products, as well as actions taken by the company's competitors in response to such laws and regulations, are beyond the company's control.

Consideration of GHG issues and the responses to those issues through international agreements and national, regional or state legislation or regulations are integrated into the company's strategy and planning, capital investment reviews, and risk management tools and processes, where applicable. They are also factored into the company's long-range supply, demand and energy price forecasts. These forecasts reflect long-range effects from renewable fuel penetration, energy efficiency standards, climate-related policy actions, and demand response to oil and natural gas prices. Additionally, the company assesses carbon pricing risks by considering carbon costs in these forecasts. The actual level of expenditure required to comply with new or potential climate change-related laws and regulations and amount of additional investments in new or

existing technology or facilities, such as carbon dioxide injection, is difficult to predict with certainty and is expected to vary depending on the actual laws and regulations enacted in a jurisdiction, the company's activities in it and market conditions.

The ultimate effect of international agreements and national, regional and state legislation and regulatory measures to limit GHG emissions on the company's financial performance, and the timing of these effects, will depend on a number of factors. Such factors include, among others, the sectors covered, the GHG emissions reductions required, the extent to which Chevron would be entitled to receive emission allowance allocations or would need to purchase compliance instruments on the open market or through auctions, the price and availability of emission allowances and credits, and the extent to which the company is able to recover the costs incurred through the pricing of the company's products in the competitive marketplace. Further, the ultimate impact of GHG emissions-related agreements, legislation and measures on the company's financial performance is highly uncertain because the company is unable to predict with certainty, for a multitude of individual jurisdictions, the outcome of political decision-making processes and the variables and tradeoffs that inevitably occur in connection with such processes.

Increasing attention to environmental, social and governance (ESG) matters may impact our business Increasing attention to climate change, increasing societal expectations on companies to address climate change, and potential consumer and customer use of substitutes to Chevron's products may result in increased costs, reduced demand for our products, reduced profits, increased investigations and litigation, and negative impacts on our stock price and access to capital markets. Increasing attention to climate change, for example, may result in demand shifts for our hydrocarbon products and additional governmental investigations and private litigation against the company.

In addition, organizations that provide information to investors on corporate governance and related matters have developed ratings processes for evaluating companies on their approach to ESG matters. Such ratings are used by some investors to inform their investment and voting decisions. Unfavorable ESG ratings may lead to increased negative investor sentiment toward Chevron and our industry and to the diversion of investment to other industries, which could have a negative impact on our stock price and our access to and costs of capital.

Changes in management's estimates and assumptions may have a material impact on the company's consolidated financial statements and financial or operational performance in any given period In preparing the company's periodic reports under the Securities Exchange Act of 1934, including its financial statements, Chevron's management is required under applicable rules and regulations to make estimates and assumptions as of a specified date. These estimates and assumptions are based on management's best estimates and experience as of that date and are subject to substantial risk and uncertainty. Materially different results may occur as circumstances change and additional information becomes known. Areas requiring significant estimates and assumptions by management include impairments to property, plant and equipment; estimates of crude oil and natural gas recoverable reserves; accruals for estimated liabilities, including litigation reserves; and measurement of benefit obligations for pension and other postretirement benefit plans. Changes in estimates or assumptions or the information underlying the assumptions, such as changes in the company's business plans, general market conditions or changes in commodity prices, could affect reported amounts of assets, liabilities or expenses.

Item 1B. Unresolved Staff Comments

None.

Item 2. Properties

The location and character of the company's crude oil and natural gas properties and its refining, marketing, transportation and chemicals facilities are described beginning on page 3 under Item 1. Business. Information required by Subpart 1200 of Regulation S-K ("Disclosure by Registrants Engaged in Oil and Gas Producing Activities") is also contained in Item 1 and in Tables I through VII on pages 92 through 103. Note 16, "Properties, Plant and Equipment," to the company's financial statements is on page 77.

Item 3. Legal Proceedings

Governmental Proceedings The following is a description of legal proceedings that the company has determined to disclose for this reporting period that involve governmental authorities and certain monetary sanctions under federal, state and local laws that have been enacted or adopted regulating the discharge of materials into the environment or primarily for the purpose of protecting the environment.

As previously disclosed, the refinery in Pasadena, Texas acquired by Chevron on May 1, 2019 (Pasadena Refining System, Inc. and PRSI Trading LLC) has multiple outstanding Notices of Violation (NOVs) that were issued by the Texas

Commission on Environmental Quality related to air emissions at the refinery. The Pasadena refinery is currently negotiating a resolution of the NOV's with the Texas Attorney General. Resolution of the alleged violations may result in the payment of a civil penalty of \$100,000 or more.

Chevron facilities within the jurisdiction of California's Bay Area Air Quality Management District (BAAQMD) currently have multiple outstanding NOV's issued by BAAQMD. Resolution of the alleged violations may result in the payment of a civil penalty of \$100,000 or more. As previously disclosed, on April 24, 2019, Chevron received a proposal from the BAAQMD seeking to resolve certain NOV's related to alleged violations that occurred at Chevron's refinery in Richmond, California, and the Richmond terminal between 2016 and 2018. Resolution of the alleged violations may result in the payment of a civil penalty of \$100,000 or more.

Chevron facilities within the jurisdiction of California's South Coast Air Quality Management District (SCAQMD) currently have multiple outstanding NOV's issued by SCAQMD. Resolution of the alleged violations may result in the payment of a civil penalty of \$100,000 or more. As previously disclosed, on April 25 and August 21, 2019, Chevron received correspondence from SCAQMD seeking to resolve certain NOV's related to alleged violations that occurred at Chevron's refinery in El Segundo, California, between 2018 and 2019. Resolution of the alleged violations may result in the payment of a civil penalty of \$100,000 or more.

As previously disclosed, the California Department of Conservation, California Geologic Energy Management Division (CalGEM) (previously known as the Division of Oil, Gas and Geothermal Resources) promulgated revised rules pursuant to the Underground Injection Control program that took effect April 1, 2019. Subsequent to that date, CalGEM issued NOV's and two orders to Chevron related to seeps that occurred in the Cymric Oil Field in Kern County, California. An October 2, 2019, CalGEM order seeks a civil penalty of approximately \$2.7 million. Chevron has filed an appeal of this order. Other state agencies may become engaged in this matter as well. Resolution of this matter may result in the payment of civil penalties of \$100,000 or more.

Other Proceedings Information related to other legal proceedings is included beginning on page 72 in Note 14 to the Consolidated Financial Statements.

Item 4. Mine Safety Disclosures

Not applicable.

Information about our Executive Officers

Information relating to the company's executive officers is included under "Information about our Executive Officers" in Part III, Item 10, "Directors, Executive Officers and Corporate Governance" on page 24, and is incorporated herein by reference.

PART II

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

The company's common stock is listed on the New York Stock Exchange (trading symbol: CVX). As of February 10, 2020, stockholders of record numbered approximately 118,000. There are no restrictions on the company's ability to pay dividends. The information on Chevron's dividends are contained in the Quarterly Results tabulations on page 48.

Chevron Corporation Issuer Purchases of Equity Securities for Quarter Ended December 31, 2019

Period	Total Number of Shares Purchased ^{1,2}	Average Price Paid per Share	Total Number of Shares Purchased as Part of Publicly Announced Program	Approximate Dollar Values of Shares that May Yet be Purchased Under the Program (Billions of dollars) ²
Oct. 1 – Oct. 31, 2019	3,997,504	\$115.73	3,997,500	\$22.1
Nov. 1 – Nov. 30, 2019	3,334,204	\$119.48	3,334,204	\$21.7
Dec. 1 – Dec. 31, 2019	3,280,855	\$118.57	3,280,855	\$21.3
Total Oct. 1 – Dec. 31, 2019	10,612,563	\$117.78	10,612,559	

¹ Includes common shares repurchased from participants in the company's deferred compensation plans for personal income tax withholdings.

² Refer to "Liquidity and Capital Resources" on page 38 for additional detail regarding the company's authorized stock repurchase program.

Item 6. Selected Financial Data

The selected financial data for years 2015 through 2019 are presented on page 91.

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

The index to Management's Discussion and Analysis of Financial Condition and Results of Operations, Consolidated Financial Statements and Supplementary Data is presented on page 27.

Item 7A. Quantitative and Qualitative Disclosures About Market Risk

The company's discussion of interest rate, foreign currency and commodity price market risk is contained in Management's Discussion and Analysis of Financial Condition and Results of Operations — "Financial and Derivative Instrument Market Risk," beginning on page 42 and in Note 8 to the Consolidated Financial Statements, "Financial and Derivative Instruments," beginning on page 66.

Item 8. Financial Statements and Supplementary Data

The index to Management's Discussion and Analysis, Consolidated Financial Statements and Supplementary Data is presented on page 27.

Item 9. Changes in and Disagreements With Accountants on Accounting and Financial Disclosure

None.

Item 9A. Controls and Procedures

(a) Evaluation of Disclosure Controls and Procedures The company's management has evaluated, with the participation of the Chief Executive Officer and the Chief Financial Officer, the effectiveness of the company's disclosure controls and procedures (as defined in Rule 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934 (Exchange Act)) as of the end of the period covered by this report. Based on this evaluation, management concluded that the company's disclosure controls and procedures were effective as of December 31, 2019.

(b) Management's Report on Internal Control Over Financial Reporting The company's management is responsible for establishing and maintaining adequate internal control over financial reporting, as defined in the Exchange Act Rules 13a-15(f) and 15d-15(f). The company's management, including the Chief Executive Officer and Chief Financial Officer, conducted an evaluation of the effectiveness of the company's internal control over financial reporting based on the *Internal Control – Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). Based on the results of this evaluation, the company's management concluded that internal control over financial reporting was effective as of December 31, 2019.

The effectiveness of the company's internal control over financial reporting as of December 31, 2019, has been audited by PricewaterhouseCoopers LLP, an independent registered public accounting firm, as stated in its report included herein.

(c) Changes in Internal Control Over Financial Reporting During the quarter ended December 31, 2019, there were no changes in the company's internal control over financial reporting that have materially affected, or are reasonably likely to materially affect, the company's internal control over financial reporting.

Item 9B. Other Information

None.

PART III

Item 10. Directors, Executive Officers and Corporate Governance

Information about our Executive Officers at February 21, 2020

Members of the Corporation's Executive Committee are the Executive Officers of the Corporation:

Name	Age	Current and Prior Positions (up to five years)	Primary Areas of Responsibility
Michael K. Wirth	59	Chairman of the Board and Chief Executive Officer (since Feb 2018) Vice Chairman of the Board (Feb 2017 - Jan 2018) and Executive Vice President, Midstream and Development (Jan 2016 - Jan 2018) Executive Vice President, Downstream (Mar 2006 - Dec 2015)	Chairman of the Board and Chief Executive Officer
James W. Johnson	60	Executive Vice President, Upstream (since Jun 2015) Senior Vice President, Upstream (Jan 2014 - Jun 2015)	Worldwide Exploration and Production Activities
Mark A. Nelson	56	Executive Vice President, Downstream (since Mar 2019) Vice President, Midstream, Strategy and Policy (Feb 2018 - Feb 2019) Vice President, Strategic Planning (Apr 2016 - Jan 2018) President, International Products (Jun 2010 - Mar 2016)	Worldwide Manufacturing, Marketing and Lubricants; Chemicals
Joseph C. Geagea	60	Executive Vice President, Technology, Projects and Services (since Jun 2015) Senior Vice President, Technology, Projects and Services (Jan 2014 - Jun 2015)	Technology; Health, Environment and Safety; Project Resources Company; Procurement
Colin E. Parfitt	55	Vice President, Midstream (since Mar 2019) President, Supply and Trading (Jun 2013 - Feb 2019)	Supply and Trading Activities; Shipping; Pipeline; Power and Energy Management
Pierre R. Breber	55	Vice President and Chief Financial Officer (since Apr 2019) Executive Vice President, Downstream (Jan 2016 - Mar 2019) Executive Vice President, Gas and Midstream (Apr 2015 - Dec 2015) Vice President, Gas and Midstream (Jan 2014 - Mar 2015)	Finance
R. Hewitt Pate	57	Vice President and General Counsel (since Aug 2009)	Law, Governance and Compliance
Rhonda J. Morris	54	Vice President and Chief Human Resources Officer (since Feb 2019) Vice President, Human Resources (Oct 2016 - Jan 2019) Vice President, Downstream Human Resources (Sep 2012 - Sep 2016)	Human Resources; Diversity and Inclusion

The information about directors required by Item 401(a), (d), (e) and (f) of Regulation S-K and contained under the heading "Election of Directors" in the Notice of the 2020 Annual Meeting of Stockholders and 2020 Proxy Statement, to be filed pursuant to Rule 14a-6(b) under the Exchange Act in connection with the company's 2020 Annual Meeting (the 2020 Proxy Statement), is incorporated by reference into this Annual Report on Form 10-K.

The information required by Item 406 of Regulation S-K and contained under the heading "Corporate Governance — Business Conduct and Ethics Code" in the 2020 Proxy Statement is incorporated by reference into this Annual Report on Form 10-K.

The information required by Item 407(d)(4) and (5) of Regulation S-K and contained under the heading "Corporate Governance — Board Committees" in the 2020 Proxy Statement is incorporated by reference into this Annual Report on Form 10-K.

Item 11. Executive Compensation

The information required by Item 402 of Regulation S-K and contained under the headings “Executive Compensation,” “CEO Pay Ratio” and “Director Compensation” in the 2020 Proxy Statement is incorporated by reference into this Annual Report on Form 10-K.

The information required by Item 407(e)(4) of Regulation S-K and contained under the heading “Corporate Governance — Board Committees” in the 2020 Proxy Statement is incorporated by reference into this Annual Report on Form 10-K.

The information required by Item 407(e)(5) of Regulation S-K and contained under the heading “Corporate Governance — Management Compensation Committee Report” in the 2020 Proxy Statement is incorporated herein by reference into this Annual Report on Form 10-K. Pursuant to the rules and regulations of the SEC under the Exchange Act, the information under such caption incorporated by reference from the 2020 Proxy Statement shall not be deemed to be “soliciting material,” or to be “filed” with the Commission, or subject to Regulation 14A or 14C or the liabilities of Section 18 of the Exchange Act, nor shall it be deemed incorporated by reference into any filing under the Securities Act of 1933.

Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters

The information required by Item 403 of Regulation S-K and contained under the heading “Stock Ownership Information — Security Ownership of Certain Beneficial Owners and Management” in the 2020 Proxy Statement is incorporated by reference into this Annual Report on Form 10-K.

The information required by Item 201(d) of Regulation S-K and contained under the heading “Equity Compensation Plan Information” in the 2020 Proxy Statement is incorporated by reference into this Annual Report on Form 10-K.

Item 13. Certain Relationships and Related Transactions, and Director Independence

The information required by Item 404 of Regulation S-K and contained under the heading “Corporate Governance — Related Person Transactions” in the 2020 Proxy Statement is incorporated by reference into this Annual Report on Form 10-K.

The information required by Item 407(a) of Regulation S-K and contained under the heading “Corporate Governance — Director Independence” in the 2020 Proxy Statement is incorporated by reference into this Annual Report on Form 10-K.

Item 14. Principal Accounting Fees and Services

The information required by Item 9(e) of Schedule 14A and contained under the heading “Board Proposal to Ratify PricewaterhouseCoopers LLP as the Independent Registered Public Accounting Firm for 2020” in the 2020 Proxy Statement is incorporated by reference into this Annual Report on Form 10-K.

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Key Financial Results

<i>Millions of dollars, except per-share amounts</i>	2019	2018	2017
Net Income (Loss) Attributable to Chevron Corporation	\$ 2,924	\$ 14,824	\$ 9,195
Per Share Amounts:			
Net Income (Loss) Attributable to Chevron Corporation			
– Basic	\$ 1.55	\$ 7.81	\$ 4.88
– Diluted	\$ 1.54	\$ 7.74	\$ 4.85
Dividends	\$ 4.76	\$ 4.48	\$ 4.32
Sales and Other Operating Revenues	\$ 139,865	\$ 158,902	\$ 134,674
Return on:			
Capital Employed	2.0%	8.2%	5.0%
Stockholders' Equity	2.0%	9.8%	6.3%

Earnings by Major Operating Area

<i>Millions of dollars</i>	2019	2018	2017
Upstream			
United States	\$ (5,094)	\$ 3,278	\$ 3,640
International	7,670	10,038	4,510
Total Upstream	2,576	13,316	8,150
Downstream			
United States	1,559	2,103	2,938
International	922	1,695	2,276
Total Downstream	2,481	3,798	5,214
All Other	(2,133)	(2,290)	(4,169)
Net Income (Loss) Attributable to Chevron Corporation^{1,2}	\$ 2,924	\$ 14,824	\$ 9,195
¹ Includes foreign currency effects:	\$ (304)	\$ 611	\$ (446)

² Income net of tax, also referred to as "earnings" in the discussions that follow.

Refer to the "Results of Operations" section beginning on page 32 for a discussion of financial results by major operating area for the three years ended December 31, 2019.

Business Environment and Outlook

Chevron is a global energy company with substantial business activities in the following countries: Angola, Argentina, Australia, Azerbaijan, Bangladesh, Brazil, Canada, China, Colombia, Indonesia, Kazakhstan, Myanmar, Mexico, Nigeria, the Partitioned Zone between Saudi Arabia and Kuwait, the Philippines, Republic of Congo, Singapore, South Korea, Thailand, the United Kingdom, the United States, and Venezuela.

Earnings of the company depend mostly on the profitability of its upstream business segment. The most significant factor affecting the results of operations for the upstream segment is the price of crude oil, which is determined in global markets outside of the company's control. In the company's downstream business, crude oil is the largest cost component of refined products. It is the company's objective to deliver competitive results and stockholder value in any business environment. Periods of sustained lower prices could result in the impairment or write-off of specific assets in future periods and cause the company to adjust operating expenses and capital and exploratory expenditures, along with other measures intended to improve financial performance. Similarly, impairments or write-offs may occur as a result of managerial decisions not to progress certain projects in the company's portfolio.

The effective tax rate for the company can change substantially during periods of significant earnings volatility. This is due to the mix effects that are impacted both by the absolute level of earnings or losses and whether they arise in higher or lower tax rate jurisdictions. As a result, a decline or increase in the effective income tax rate in one period may not be indicative of expected results in future periods. Note 15 provides the company's effective income tax rate for the last three years.

Refer to the "Cautionary Statements Relevant to Forward-Looking Information" on page 2 and to "Risk Factors" in Part I, Item 1A, on pages 18 through 21 for a discussion of some of the inherent risks that could materially impact the company's results of operations or financial condition.

The company continually evaluates opportunities to dispose of assets that are not expected to provide sufficient long-term value or to acquire assets or operations complementary to its asset base to help augment the company's financial performance and value growth. Asset dispositions and restructurings may result in significant gains or losses in future periods. The company's

asset sale program for 2018 through 2020 is targeting before-tax proceeds of \$5-10 billion. Proceeds related to asset sales were \$2.0 billion in 2018 and \$2.8 billion in 2019.

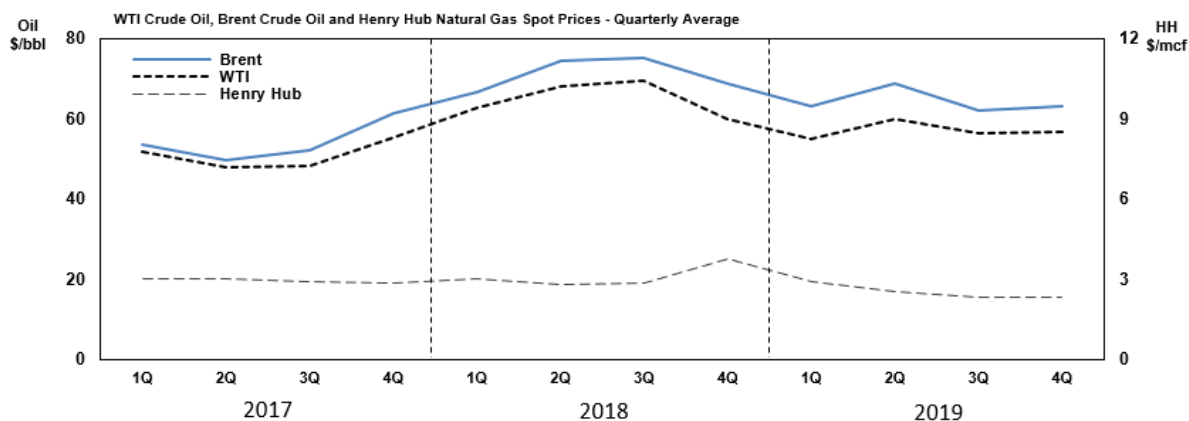
The company closely monitors developments in the financial and credit markets, the level of worldwide economic activity, and the implications for the company of movements in prices for crude oil and natural gas. Management takes these developments into account in the conduct of daily operations and for business planning.

Comments related to earnings trends for the company's major business areas are as follows:

Upstream Earnings for the upstream segment are closely aligned with industry prices for crude oil and natural gas. Crude oil and natural gas prices are subject to external factors over which the company has no control, including product demand connected with global economic conditions, industry production and inventory levels, technology advancements, production quotas or other actions imposed by the Organization of Petroleum Exporting Countries (OPEC) or other producers, actions of regulators, weather-related damage and disruptions, competing fuel prices, and regional supply interruptions or fears thereof that may be caused by military conflicts, civil unrest or political uncertainty. Any of these factors could also inhibit the company's production capacity in an affected region. The company closely monitors developments in the countries in which it operates and holds investments, and seeks to manage risks in operating its facilities and businesses. The longer-term trend in earnings for the upstream segment is also a function of other factors, including the company's ability to find or acquire and efficiently produce crude oil and natural gas, changes in fiscal terms of contracts, and changes in tax and other applicable laws and regulations.

The company continues to actively manage its schedule of work, contracting, procurement, and supply-chain activities to effectively manage costs and support operational goals. Price levels for capital, exploratory costs, and operating expenses associated with the production of crude oil and natural gas can be subject to external factors beyond the company's control including, but not limited to: the general level of inflation, tariffs or other taxes imposed on goods or services, and commoditized prices charged by the industry's material and service providers. The spot markets for many services and materials fell as overall industry drilling activity in North America declined in 2019, particularly onshore. However, as industry activity contracts, financial pressure on suppliers has increased, which may limit further de-escalation and/or lead to consolidation across the supplier community impacting costs. The international and offshore rig markets are also showing some signs of weaknesses as activity has pulled back; however, pricing for some products and services remains resilient as many suppliers have reset expectations of higher industry spend and instead are looking to higher pricing and margins on a more limited scope of work. Chevron utilizes contracts with various pricing mechanisms, so there may be a delay in when the company's costs reflect the changes in market trends.

Capital and exploratory expenditures and operating expenses could also be affected by damage to production facilities caused by severe weather or civil unrest, delays in construction, or other factors.



The chart above shows the trend in benchmark prices for Brent crude oil, West Texas Intermediate (WTI) crude oil and U.S. Henry Hub natural gas. The majority of the company's equity crude production is priced based on the Brent benchmark. The Brent price averaged \$64 per barrel for the full-year 2019, compared to \$71 in 2018. Brent prices increased through the first half of 2019 due to OPEC production cuts and U.S. sanctions on Iran and Venezuela. Prices then started to decline due to heightened concerns about a slowing macro economy and weakening oil demand growth amid trade tensions between the

U.S. and China. OPEC announced additional production cuts in December 2019, leading to a price increase with Brent prices at \$67 at the end of the year. As of mid-February 2020, the Brent price was \$57 per barrel, having declined more than 10 percent since December 2019, primarily due to concerns about demand erosion following the coronavirus outbreak.

The WTI price averaged \$57 per barrel for the full-year 2019, compared to \$65 in 2018. WTI traded at a discount to Brent throughout 2019. Differentials to Brent have ranged between \$4 to \$10 in 2019, primarily due to pipeline infrastructure constraints which have restricted flows of inland crude to export outlets on the Gulf Coast. Variability in other factors impacting supply and demand of each benchmark crude also affect price differential. As of mid-February 2020, the WTI price was \$52 per barrel.

Chevron has interests in the production of heavy crude oil in California, Indonesia, the Partitioned Zone between Saudi Arabia and Kuwait, Venezuela and in certain fields in Angola and China. (See page 37 for the company's average U.S. and international crude oil sales prices.)

In contrast to price movements in the global market for crude oil, price changes for natural gas are more closely aligned with seasonal supply-and-demand and infrastructure conditions in local markets. In the United States, prices at Henry Hub averaged \$2.53 per thousand cubic feet (MCF) during 2019, compared with \$3.12 during 2018. As of mid-February 2020, the Henry Hub spot price was \$1.84 per MCF. Increased production in the Permian Basin has resulted in insufficient gas pipeline and fractionation capacity in the near-term, and over-supply conditions, leading to depressed natural gas and natural gas liquids prices in West Texas. A sizable portion of Chevron's U.S. natural gas production comes from the Permian Basin, resulting in natural gas realizations that are significantly lower than the Henry Hub price.

Outside the United States, price changes for natural gas depend on a wide range of supply, demand and regulatory circumstances. Chevron sells natural gas into the domestic pipeline market in many locations. In some locations, Chevron has invested in long-term projects to produce and liquefy natural gas for transport by tanker to other markets. The company's long-term contract prices for liquefied natural gas (LNG) are typically linked to crude oil prices. Most of the equity LNG offtake from the operated Australian LNG projects is committed under binding long-term contracts, with the remainder to be sold in the Asian spot LNG market. The Asian spot market reflects the supply and demand for LNG in the Pacific Basin and is not directly linked to crude oil prices. International natural gas realizations averaged \$5.83 per MCF during 2019, compared with \$6.29 per MCF during 2018. (See page 37 for the company's average natural gas realizations for the U.S. and international regions.)

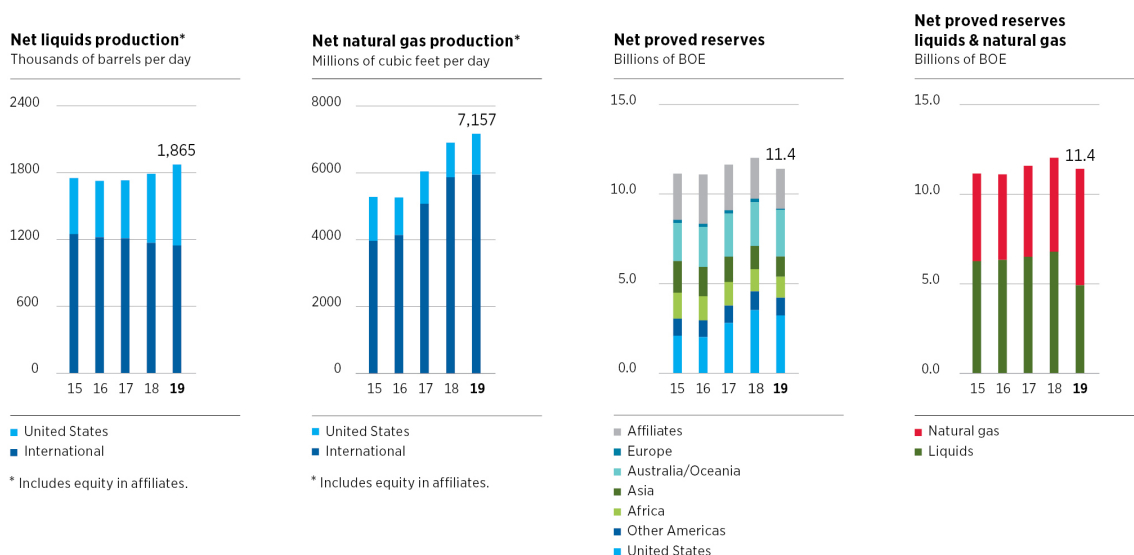
The company's worldwide net oil-equivalent production in 2019 averaged 3.058 million barrels per day. About 15 percent of the company's net oil-equivalent production in 2019 occurred in the OPEC-member countries of Angola, Nigeria, Republic of Congo and Venezuela. OPEC quotas had no material effect on the company's net crude oil production in 2019 or 2018.

The company estimates that net oil-equivalent production in 2020 will grow up to 3 percent compared to 2019, assuming a Brent crude oil price of \$60 per barrel and excluding the impact of anticipated 2020 asset sales. This estimate is subject to many factors and uncertainties, including quotas or other actions that may be imposed by OPEC; tariffs and trade sanctions; price effects on entitlement volumes; changes in fiscal terms or restrictions on the scope of company operations; delays in construction; reservoir performance; greater-than-expected declines in production from mature fields; start-up or ramp-up of projects; fluctuations in demand for natural gas in various markets; weather conditions that may shut in production; civil unrest; changing geopolitics; delays in completion of maintenance turnarounds; or other disruptions to operations. The outlook for future production levels is also affected by the size and number of economic investment opportunities and the time lag between initial exploration and the beginning of production. The company has increased its investment emphasis on short-cycle projects.

In the Partitioned Zone between Saudi Arabia and Kuwait, production was shut-in beginning in May 2015 as a result of difficulties in securing work and equipment permits. Net oil-equivalent production in the Partitioned Zone in 2014 was 81,000 barrels per day. During 2015, net oil-equivalent production averaged 28,000 barrels per day. In December 2019, the governments of Saudi Arabia and Kuwait signed a memorandum of understanding to resolve the dispute and allow production to restart in the Partitioned Zone. In mid-February 2020, pre-startup activities commenced. The financial effects from the loss of production in 2019 were not significant and are not expected to be significant in 2020.

Chevron has interests in Venezuelan crude oil production assets operated by independent equity affiliates. While the operating environment in Venezuela has been deteriorating for some time, the equity affiliates have continued to operate consistent with the authorization provided pursuant to general licenses issued by the United States government. It remains uncertain when the environment in Venezuela will stabilize, but the company remains committed to its personnel and operations in

Venezuela. Refer to Note 22 on page 88 under the heading “Other Contingencies” for more information on the company’s activities in Venezuela.



Net proved reserves for consolidated companies and affiliated companies totaled 11.4 billion barrels of oil-equivalent at year-end 2019, a decrease of 5 percent from year-end 2018. The reserve replacement ratio in 2019 was 44 percent. The 5 and 10 year reserve replacement ratios were 106 percent and 101 percent, respectively. Refer to Table V beginning on page 96 for a tabulation of the company’s proved net oil and gas reserves by geographic area, at the beginning of 2017 and each year-end from 2017 through 2019, and an accompanying discussion of major changes to proved reserves by geographic area for the three-year period ending December 31, 2019.

Refer to the “Results of Operations” section on pages 32 through 34 for additional discussion of the company’s upstream business.

Downstream Earnings for the downstream segment are closely tied to margins on the refining, manufacturing and marketing of products that include gasoline, diesel, jet fuel, lubricants, fuel oil, fuel and lubricant additives, and petrochemicals. Industry margins are sometimes volatile and can be affected by the global and regional supply-and-demand balance for refined products and petrochemicals, and by changes in the price of crude oil, other refinery and petrochemical feedstocks, and natural gas. Industry margins can also be influenced by inventory levels, geopolitical events, costs of materials and services, refinery or chemical plant capacity utilization, maintenance programs, and disruptions at refineries or chemical plants resulting from unplanned outages due to severe weather, fires or other operational events.

Other factors affecting profitability for downstream operations include the reliability and efficiency of the company’s refining, marketing and petrochemical assets, the effectiveness of its crude oil and product supply functions, and the volatility of tanker-charter rates for the company’s shipping operations, which are driven by the industry’s demand for crude oil and product tankers. Other factors beyond the company’s control include the general level of inflation and energy costs to operate the company’s refining, marketing and petrochemical assets and changes in tax laws and regulations.

The company’s most significant marketing areas are the West Coast and Gulf Coast of the United States and Asia. Chevron operates or has significant ownership interests in refineries in each of these areas.

Refer to the “Results of Operations” section on pages 32 through 34 for additional discussion of the company’s downstream operations.

All Other consists of worldwide cash management and debt financing activities, corporate administrative functions, insurance operations, real estate activities and technology companies.

Operating Developments

Key operating developments and other events during 2019 and early 2020 included the following:

Upstream

Azerbaijan Signed an agreement to sell the company's interest in the Azeri-Chirag-Gunashli fields and Baku-Tbilisi-Ceyhan pipeline.

Brazil Completed the sale of an interest in the Frade field.

Denmark Completed the sale of Denmark upstream interests.

Philippines Signed an agreement to sell the company's interest in the Malampaya field in late October.

United Kingdom Completed the sale of interest in the Rosebank field.

United Kingdom Completed the sale of Central North Sea assets.

United States Announced the sanction of a waterflood project in the St. Malo field in the Gulf of Mexico.

United States Announced final investment decision for the Anchor field in the Gulf of Mexico.

Downstream

United States Completed the acquisition of a refinery in Pasadena, Texas.

Australia Signed an agreement to acquire a network of terminals and service stations.

CPChem Announced agreements to jointly develop petrochemical complexes in Qatar and the U.S. Gulf Coast.

Other

Common Stock Dividends The 2019 annual dividend was \$4.76 per share, making 2019 the 32nd consecutive year that the company increased its annual per share dividend payout. In January 2020, the company's Board of Directors approved a \$0.10 per share increase in the quarterly dividend to \$1.29 per share, payable in March 2020, representing an increase of 8.4 percent.

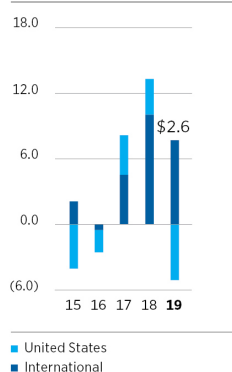
Common Stock Repurchase Program The company purchased \$4 billion of its common stock in 2019 under its stock repurchase programs. The company currently expects to repurchase \$5 billion of its common stock in 2020.

Results of Operations

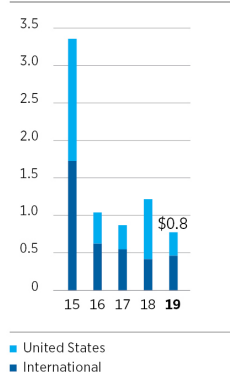
The following section presents the results of operations and variances on an after-tax basis for the company's business segments – Upstream and Downstream – as well as for "All Other." Earnings are also presented for the U.S. and international geographic areas of the Upstream and Downstream business segments. Refer to Note 12, beginning on page 68, for a discussion of the company's "reportable segments." This section should also be read in conjunction with the discussion in "Business Environment and Outlook" on pages 28 through 32. Refer to the "Selected Operating Data" table on page 37 for a three-year comparison of production volumes, refined product sales volumes, and refinery inputs. A discussion of variances between 2018 and 2017 can be found in the "Results of Operations" section on pages 32 through 34 of the company's 2018 Annual Report on Form 10-K filed with the SEC on February 22, 2019.

Worldwide Upstream earnings

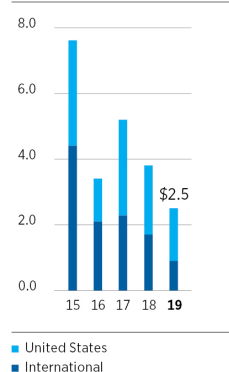
Billions of dollars


Exploration expenses

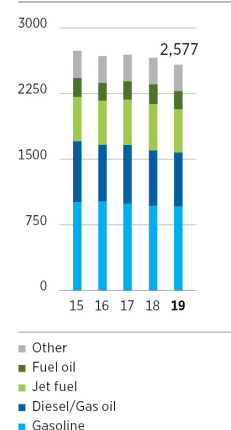
Billions of dollars (before-tax)


Worldwide Downstream earnings

Billions of dollars


Worldwide refined product sales

Thousands of barrels per day



U.S. Upstream

Millions of dollars

	2019	2018	2017
Earnings	\$ (5,094)	\$ 3,278	\$ 3,640

U.S. upstream recorded a loss of \$5.09 billion in 2019, compared with earnings of \$3.28 billion in 2018. The decrease in earnings was largely due to \$8.17 billion in 2019 impairment charges primarily associated with Appalachia shale and Big Foot, partially offset by the absence of 2018 write-offs and impairments of \$660 million, largely due to the Tigris Project in the Gulf of Mexico. Also contributing to the decrease was lower crude oil and natural gas prices of \$1.72 billion, higher operating expenses of \$260 million and the absence of several 2018 asset sale gains totaling \$220 million, partially offset by higher crude oil and natural gas production of \$1.33 billion.

The company's average realization for U.S. crude oil and natural gas liquids in 2019 was \$48.54 per barrel compared with \$58.17 in 2018. The average natural gas realization was \$1.09 per thousand cubic feet in 2019, compared with \$1.86 in 2018.

Net oil-equivalent production in 2019 averaged 929,000 barrels per day, up 17 percent from 2018. The production increase was largely due to shale and tight properties in the Permian Basin in Texas and New Mexico.

The net liquids component of oil-equivalent production for 2019 averaged 724,000 barrels per day, up 17 percent from 2018. Net natural gas production averaged 1.23 billion cubic feet per day in 2019, up 18 percent from 2018.

International Upstream

Millions of dollars

	2019	2018	2017
Earnings*	\$ 7,670	\$ 10,038	\$ 4,510
*Includes foreign currency effects:	\$ (323)	\$ 545	\$ (456)

International upstream earnings were \$7.67 billion in 2019, compared with \$10.04 billion in 2018. Lower crude oil and natural gas realizations of \$1.4 billion and \$830 million, respectively, were partially offset by lower depreciation and tax expenses of \$560 million and \$280 million, respectively. There were also a number of special items that largely offset each other in 2019 and 2018. Included in 2019 earnings were items totaling \$800 million for write-offs and impairment charges of \$2.2 billion associated with Kitimat LNG and other gas projects partially offset by a gain of \$1.2 billion on the sale of the U.K. Central North Sea assets and a benefit of \$180 million related to a reduction in the corporate income tax rate in Alberta, Canada. Offsetting these items were the absence of 2018 special items of \$920 million associated with impairments, write-offs, a receivable write-down and a contractual settlement. Foreign currency effects had an unfavorable impact on earnings of \$868 million between periods.

The company's average realization for international crude oil and natural gas liquids in 2019 was \$58.14 per barrel compared with \$64.25 in 2018. The average natural gas realization was \$5.83 per thousand cubic feet in 2019 compared with \$6.29 in 2018.

International net oil-equivalent production was 2.13 million barrels per day in 2019, essentially unchanged from 2018. Production increases from Wheatstone and major capital projects were offset by normal field declines and the impact of asset sales in 2019.

The net liquids component of international oil-equivalent production was 1.14 million barrels per day in 2019, down 2 percent from 2018. International net natural gas production of 5.93 billion cubic feet per day in 2019 increased 1 percent from 2018.

U.S. Downstream

Millions of dollars	2019		2018		2017
Earnings	\$	1,559	\$	2,103	\$ 2,938

U.S. downstream earned \$1.56 billion in 2019, compared with \$2.10 billion in 2018. The decrease was primarily due to lower margins on refined product sales of \$300 million, lower equity earnings from the 50 percent-owned CPChem of \$140 million and higher depreciation expense of \$100 million following first production at the new hydrogen plant at the Richmond refinery.

Total refined product sales of 1.25 million barrels per day in 2019 were up 3 percent from 2018.

International Downstream

Millions of dollars	2019		2018		2017
Earnings*	\$	922	\$	1,695	\$ 2,276

*Includes foreign currency effects: \$ 17 \$ 71 \$ (90)

International downstream earned \$922 million in 2019, compared with \$1.70 billion in 2018. The decrease in earnings was due to lower margins on refined product sales of \$570 million, lower gains on asset sales of \$300 million, primarily due to the absence of the 2018 gains from the southern Africa asset sale, partially offset by favorable tax items of \$100 million. Foreign currency effects had an unfavorable impact on earnings of \$54 million between periods.

Total refined product sales of 1.33 million barrels per day in 2019 were down 8 percent from 2018, primarily due to the sale of the southern Africa refining and marketing business in third quarter 2018.

All Other

Millions of dollars	2019		2018		2017
Net charges*	\$	(2,133)	\$	(2,290)	\$ (4,169)

*Includes foreign currency effects: \$ 2 \$ (5) \$ 100

All Other consists of worldwide cash management and debt financing activities, corporate administrative functions, insurance operations, real estate activities, and technology companies.

Net charges in 2019 decreased \$157 million from 2018. The change between periods was mainly due to receipt of the Anadarko merger termination fee, partially offset by higher tax items. Foreign currency effects decreased net charges by \$7 million between periods.

Consolidated Statement of Income

Comparative amounts for certain income statement categories are shown below. A discussion of variances between 2018 and 2017 can be found in the "Consolidated Statement of Income" section on pages 34 through 36 of the company's 2018 Annual Report on Form 10-K.

Millions of dollars	2019		2018		2017
Sales and other operating revenues	\$	139,865	\$	158,902	\$ 134,674

Sales and other operating revenues decreased in 2019 mainly due to lower refined product, crude oil and natural gas prices, and lower crude oil and refined product volumes.

<i>Millions of dollars</i>	2019	2018	2017
Income from equity affiliates	\$ 3,968	\$ 6,327	\$ 4,438

Income from equity affiliates decreased in 2019 mainly due to lower upstream-related earnings from Tengizchevroil in Kazakhstan, Petroboscan and Petropiar in Venezuela, and lower downstream-related earnings from GS Caltex in South Korea. In addition, two upstream affiliates were written-down in 2019.

Refer to Note 13, beginning on page 71, for a discussion of Chevron's investments in affiliated companies.

<i>Millions of dollars</i>	2019	2018	2017
Other income	\$ 2,683	\$ 1,110	\$ 2,610

Other income increased in 2019 mainly due to the receipt of the Anadarko merger termination fee and higher gains from asset sales, partially offset by unfavorable swings in foreign currency effects.

<i>Millions of dollars</i>	2019	2018	2017
Purchased crude oil and products	\$ 80,113	\$ 94,578	\$ 75,765

Crude oil and product purchases decreased \$14.5 billion in 2019, primarily due to lower crude oil volumes and prices, and lower product prices and volumes.

<i>Millions of dollars</i>	2019	2018	2017
Operating, selling, general and administrative expenses	\$ 25,528	\$ 24,382	\$ 23,237

Operating, selling, general and administrative expenses increased \$1.1 billion in 2019. The increase is mainly due to higher services and fees, materials and supplies expense and higher transportation expense, partially offset by the absence of a 2018 receivable write-down and contractual settlement.

<i>Millions of dollars</i>	2019	2018	2017
Exploration expense	\$ 770	\$ 1,210	\$ 864

Exploration expenses in 2019 decreased primarily due to lower charges for well write-offs, partially offset by higher geological and geophysical expenses.

<i>Millions of dollars</i>	2019	2018	2017
Depreciation, depletion and amortization	\$ 29,218	\$ 19,419	\$ 19,349

Depreciation, depletion and amortization expenses increased in 2019 mainly due to higher impairments, production and well write-offs, partially offset by lower rates.

<i>Millions of dollars</i>	2019	2018	2017
Taxes other than on income	\$ 4,136	\$ 4,867	\$ 12,331

Taxes other than on income decreased in 2019 mainly due to lower local and municipal taxes and licenses as a result of the company's divestment of its downstream interest in southern Africa in third quarter 2018, partially offset by higher U.S. state carbon emissions regulatory expenses.

<i>Millions of dollars</i>	2019	2018	2017
Interest and debt expense	\$ 798	\$ 748	\$ 307

Interest and debt expenses increased in 2019 mainly due to lower capitalized interest, partially offset by lower interest expense resulting from lower debt balances.

<i>Millions of dollars</i>	2019	2018	2017
Income tax expense (benefit)	\$ 2,691	\$ 5,715	\$ (48)

The decrease in income tax expense in 2019 of \$3.02 billion is due to the decrease in total income before tax for the company of \$15.04 billion. The decrease in income before taxes for the company is primarily the result of the upstream impairment and project write-off charges along with lower commodity prices, partially offset by higher gains on asset sales.

U.S. income before tax decreased from a profit of \$4.73 billion in 2018 to a loss of \$5.48 billion in 2019. This decrease in earnings before tax was primarily driven by the effect of upstream impairments and lower crude oil and natural gas prices,

partially offset by the Anadarko merger termination fee and higher production. The U.S. tax decreased from a tax charge of \$724 million in 2018 to a tax benefit of \$1.17 billion in 2019 primarily due to the before-tax loss.

International income before tax decreased from \$15.84 billion in 2018 to \$11.02 billion in 2019. This decrease was primarily driven by the effects of upstream project write-off and impairment charges and lower crude oil and natural gas prices, partially offset by gains on asset sales. The lower before-tax income primarily drove the \$1.13 billion decrease in international income tax expense, from \$4.99 billion in 2018 to \$3.86 billion in 2019.

Refer also to the discussion of the effective income tax rate in Note 15 beginning on page 74.

Selected Operating Data^{1,2}

	2019	2018	2017
U.S. Upstream			
Net Crude Oil and Natural Gas Liquids Production (MBPD)	724	618	519
Net Natural Gas Production (MMCFPD) ³	1,225	1,034	970
Net Oil-Equivalent Production (MBOEPD)	929	791	681
Sales of Natural Gas (MMCFPD)	4,016	3,481	3,331
Sales of Natural Gas Liquids (MBPD)	130	110	30
Revenues from Net Production			
Liquids (\$/Bbl)	\$ 48.54	\$ 58.17	\$ 44.53
Natural Gas (\$/MCF)	\$ 1.09	\$ 1.86	\$ 2.10
International Upstream			
Net Crude Oil and Natural Gas Liquids Production (MBPD) ⁴	1,141	1,164	1,204
Net Natural Gas Production (MMCFPD) ³	5,932	5,855	5,062
Net Oil-Equivalent Production (MBOEPD) ⁴	2,129	2,139	2,047
Sales of Natural Gas (MMCFPD)	5,869	5,604	5,081
Sales of Natural Gas Liquids (MBPD)	34	34	29
Revenues from Liftings			
Liquids (\$/Bbl)	\$ 58.14	\$ 64.25	\$ 49.46
Natural Gas (\$/MCF)	\$ 5.83	\$ 6.29	\$ 4.62
Worldwide Upstream			
Net Oil-Equivalent Production (MBOEPD) ⁴			
United States	929	791	681
International	2,129	2,139	2,047
Total	3,058	2,930	2,728
U.S. Downstream			
Gasoline Sales (MBPD) ⁵	667	627	625
Other Refined Product Sales (MBPD)	583	591	572
Total Refined Product Sales (MBPD)	1,250	1,218	1,197
Sales of Natural Gas Liquids (MBPD)	101	74	109
Refinery Input (MBPD) ⁶	947	905	901
International Downstream			
Gasoline Sales (MBPD) ⁵	289	336	365
Other Refined Product Sales (MBPD)	1,038	1,101	1,128
Total Refined Product Sales (MBPD) ⁷	1,327	1,437	1,493
Sales of Natural Gas Liquids (MBPD)	72	62	64
Refinery Input (MBPD) ⁸	617	706	760

¹ Includes company share of equity affiliates.

² MBPD – thousands of barrels per day; MMCFPD – millions of cubic feet per day; MBOEPD – thousands of barrels of oil-equivalents per day; Bbl – barrel; MCF – thousands of cubic feet. Oil-equivalent gas (OEG) conversion ratio is 6,000 cubic feet of natural gas = 1 barrel of crude oil.

³ Includes natural gas consumed in operations (MMCFPD):

United States	36	35	37
International	602	584	528

⁴ Includes net production of synthetic oil:

Canada	53	53	51
Venezuela affiliate	3	24	28

⁵ Includes branded and unbranded gasoline.

⁶ In May 2019, the company acquired the Pasadena Refinery in Pasadena, Texas, which has an operable capacity of 110,000 barrels per day.

⁷ Includes sales of affiliates (MBPD):

379	373	366
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⁸ In September 2018, the company sold its interest in the Cape Town Refinery in Cape Town, South Africa, which had an operable capacity of 110,000 barrels per day.

Liquidity and Capital Resources

Sources and uses of cash

The strength of the company's balance sheet enabled it to fund any timing differences throughout the year between cash inflows and outflows.

Cash, Cash Equivalents, Marketable Securities and Time Deposits Total balances were \$5.7 billion and \$10.3 billion at December 31, 2019 and 2018, respectively. Cash provided by operating activities in 2019 was \$27.3 billion, compared to \$30.6 billion in 2018, primarily due to lower crude oil prices. Cash provided by operating activities was net of contributions to employee pension plans of approximately \$1.4 billion in 2019 and \$1.0 billion in 2018. Cash provided by investing activities included proceeds and deposits related to asset sales of \$2.8 billion in 2019 and \$2.0 billion in 2018.

Restricted cash of \$1.2 billion and \$1.1 billion at December 31, 2019 and 2018, respectively, was held in cash and short-term marketable securities and recorded as "Deferred charges and other assets" and "Prepaid expenses and other current assets" on the Consolidated Balance Sheet. These amounts are generally associated with upstream decommissioning activities, tax payments, funds held in escrow for tax-deferred exchanges and refundable deposits related to pending asset sales.

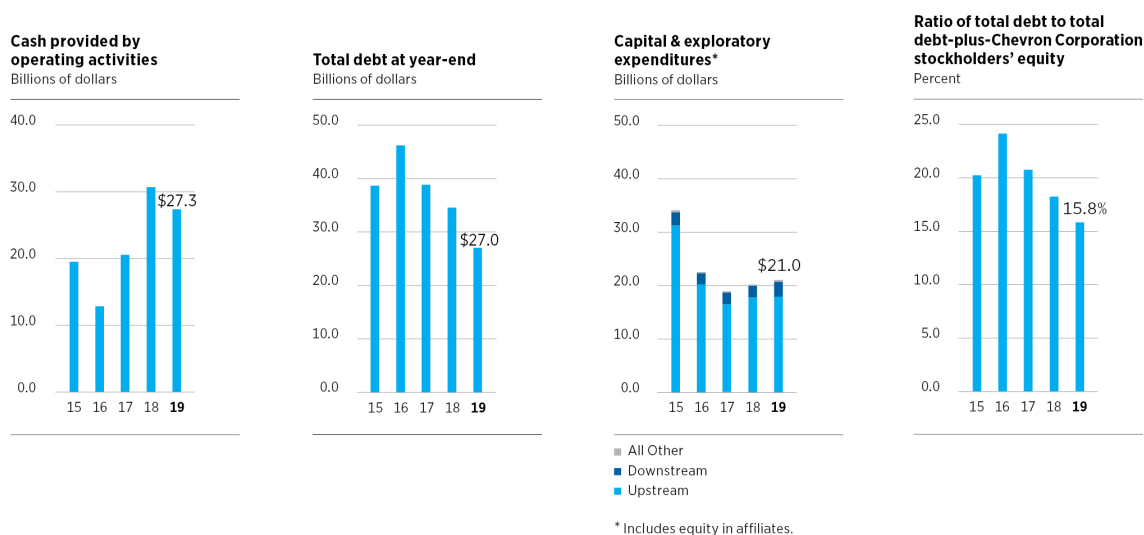
Dividends Dividends paid to common stockholders were \$9.0 billion in 2019 and \$8.5 billion in 2018.

Debt and Finance Lease Liabilities Total debt and finance lease liabilities were \$27.0 billion at December 31, 2019, down from \$34.5 billion at year-end 2018.

The \$7.5 billion decrease in total debt and finance lease liabilities during 2019 was primarily due to the repayment of long-term notes totaling \$5.0 billion as they matured during 2019, and a reduction in commercial paper. The company's debt and finance lease liabilities due within one year, consisting primarily of commercial paper, redeemable long-term obligations and the current portion of long-term debt, totaled \$13.0 billion at December 31, 2019, compared with \$15.6 billion at year-end 2018. Of these amounts, \$9.75 billion and \$9.9 billion were reclassified to long-term debt at the end of 2019 and 2018, respectively.

At year-end 2019, settlement of these obligations was not expected to require the use of working capital in 2020, as the company had the intent and the ability, as evidenced by committed credit facilities, to refinance them on a long-term basis.

Chevron has an automatic shelf registration statement that expires in May 2021 for an unspecified amount of nonconvertible debt securities issued or guaranteed by the company.



The major debt rating agencies routinely evaluate the company's debt, and the company's cost of borrowing can increase or decrease depending on these debt ratings. The company has outstanding public bonds issued by Chevron Corporation and Texaco Capital Inc. All of these securities are the obligations of, or guaranteed by, Chevron Corporation and are rated AA by

Standard and Poor's Corporation and Aa2 by Moody's Investors Service. The company's U.S. commercial paper is rated A-1+ by Standard and Poor's and P-1 by Moody's. All of these ratings denote high-quality, investment-grade securities.

The company's future debt level is dependent primarily on results of operations, cash that may be generated from asset dispositions, the capital program and shareholder distributions. Based on its high-quality debt ratings, the company believes that it has substantial borrowing capacity to meet unanticipated cash requirements. During extended periods of low prices for crude oil and natural gas and narrow margins for refined products and commodity chemicals, the company can also modify capital spending plans and discontinue or curtail the stock repurchase program to provide flexibility to continue paying the common stock dividend and also remain committed to retaining the company's high-quality debt ratings.

Committed Credit Facilities Information related to committed credit facilities is included in Note 17, Short-Term Debt, on page 78.

Common Stock Repurchase Program In January 2019, the company purchased shares for \$0.3 billion under the July 2010 stock repurchase program. On February 1, 2019, the company announced that the Board of Directors authorized a new stock repurchase program with a maximum dollar limit of \$25 billion and no set term limits. As of December 31, 2019, the company had purchased a total of 31.1 million shares for \$3.7 billion, resulting in \$21.3 billion remaining under the program authorized in February 2019. The company currently expects to repurchase \$5 billion of its common stock in 2020. Repurchases may be made from time to time in the open market, by block purchases, in privately negotiated transactions or in such other manner as determined by the company. The timing of the repurchases and the actual amount repurchased will depend on a variety of factors, including the market price of the company's shares, general market and economic conditions, and other factors. The stock repurchase program does not obligate the company to acquire any particular amount of common stock, and it may be suspended or discontinued at any time.

Capital and Exploratory Expenditures

Capital and exploratory expenditures by business segment for 2019, 2018 and 2017 are as follows:

Millions of dollars	2019			2018			2017		
	U.S.	Int'l.	Total	U.S.	Int'l.	Total	U.S.	Int'l.	Total
Upstream	\$ 8,197	\$ 9,627	\$ 17,824	\$ 7,128	\$ 10,529	\$ 17,657	\$ 5,145	\$ 11,243	\$ 16,388
Downstream	1,868	920	2,788	1,582	611	2,193	1,656	534	2,190
All Other	365	17	382	243	13	256	239	4	243
Total	\$ 10,430	\$ 10,564	\$ 20,994	\$ 8,953	\$ 11,153	\$ 20,106	\$ 7,040	\$ 11,781	\$ 18,821
Total, Excluding Equity in Affiliates	\$ 10,062	\$ 4,820	\$ 14,882	\$ 8,651	\$ 5,739	\$ 14,390	\$ 6,295	\$ 7,783	\$ 14,078

Total expenditures for 2019 were \$21.0 billion, including \$6.1 billion for the company's share of equity-affiliate expenditures, which did not require cash outlays by the company. In 2018, expenditures were \$20.1 billion, including the company's share of affiliates' expenditures of \$5.7 billion.

Of the \$21.0 billion of expenditures in 2019, 85 percent, or \$17.8 billion, related to upstream activities. Approximately 88 percent was expended for upstream operations in 2018. International upstream accounted for 54 percent of the worldwide upstream investment in 2019 and 60 percent in 2018.

The company estimates that 2020 organic capital and exploratory expenditures will be \$20 billion, including \$6.2 billion of spending by affiliates. This is in line with 2019 expenditures, and reflects a robust portfolio of upstream and downstream investments, highlighted by the company's Permian Basin position, and additional shale and tight development in other basins. Approximately 84 percent of the total, or \$16.8 billion, is budgeted for exploration and production activities. Approximately \$11 billion of planned upstream capital spending relates to base producing assets, including \$4 billion for the Permian and \$1 billion for other shale and tight rock investments. Approximately \$5 billion of the upstream program is planned for major capital projects underway, including \$4 billion associated with the Future Growth and Wellhead Pressure Management Project at the Tengiz field in Kazakhstan. Global exploration funding is expected to be about \$1 billion. Remaining upstream spend is budgeted for early stage projects supporting potential future developments. The company monitors crude oil market conditions and is able to adjust future capital outlays should oil price conditions deteriorate.

Worldwide downstream spending in 2020 is estimated to be \$2.8 billion, with \$1.6 billion estimated for projects in the United States.

Investments in technology businesses and other corporate operations in 2020 are budgeted at \$0.4 billion.

Noncontrolling Interests The company had noncontrolling interests of \$1.0 billion at December 31, 2019 and \$1.1 billion at December 31, 2018. Distributions to noncontrolling interests totaled \$18 million and \$91 million in 2019 and 2018, respectively.

Pension Obligations Information related to pension plan contributions is included beginning on page 82 in Note 21, Employee Benefit Plans, under the heading "Cash Contributions and Benefit Payments."

Financial Ratios and Metrics

The following represent several metrics the company believes are useful measures to monitor the financial health of the company and its performance over time:

Current Ratio Current assets divided by current liabilities, which indicates the company's ability to repay its short-term liabilities with short-term assets. The current ratio in all periods was adversely affected by the fact that Chevron's inventories are valued on a last-in, first-out basis. At year-end 2019, the book value of inventory was lower than replacement costs, based on average acquisition costs during the year, by approximately \$4.5 billion.

Millions of dollars	At December 31		
	2019	2018	2017
Current assets	\$ 28,329	\$ 34,021	\$ 28,560
Current liabilities	26,530	27,171	27,737
Current Ratio	1.1	1.3	1.0

Interest Coverage Ratio Income before income tax expense, plus interest and debt expense and amortization of capitalized interest, less net income attributable to noncontrolling interests, divided by before-tax interest costs. This ratio indicates the company's ability to pay interest on outstanding debt. The company's interest coverage ratio in 2019 was lower than 2018 due to lower income.

Millions of dollars	Year ended December 31		
	2019	2018	2017
Income (Loss) Before Income Tax Expense	\$ 5,536	\$ 20,575	\$ 9,221
Plus: Interest and debt expense	798	748	307
Plus: Before-tax amortization of capitalized interest	240	280	197
Less: Net income attributable to noncontrolling interests	(79)	36	74
Subtotal for calculation	6,653	21,567	9,651
Total financing interest and debt costs	\$ 817	\$ 921	\$ 902
Interest Coverage Ratio	8.1	23.4	10.7

Free Cash Flow The cash provided by operating activities less cash capital expenditures, which represents the cash available to creditors and investors after investing in the business.

Millions of dollars	Year ended December 31		
	2019	2018	2017
Net cash provided by operating activities	\$ 27,314	\$ 30,618	\$ 20,338
Less: Capital expenditures	14,116	13,792	13,404
Free Cash Flow	\$ 13,198	\$ 16,826	\$ 6,934

Debt Ratio Total debt as a percentage of total debt plus Chevron Corporation Stockholders' Equity, which indicates the company's leverage. The company's debt ratio was 15.8 percent at year-end 2019, compared with 18.2 percent at year-end 2018.

Millions of dollars	At December 31		
	2019	2018	2017
Short-term debt	\$ 3,282	\$ 5,726	\$ 5,192
Long-term debt	23,691	28,733	33,571
Total debt	26,973	34,459	38,763
Total Chevron Corporation Stockholders' Equity	144,213	154,554	148,124
Total debt plus total Chevron Corporation Stockholders' Equity	\$ 171,186	\$ 189,013	\$ 186,887
Debt Ratio	15.8 %	18.2 %	20.7 %

Net Debt Ratio Total debt less cash and cash equivalents, time deposits, and marketable securities as a percentage of total debt less cash and cash equivalents, time deposits, and marketable securities, plus Chevron Corporation Stockholders' Equity, which indicates the company's leverage, net of its cash balances.

Millions of dollars	At December 31		
	2019	2018	2017
Short-term debt	\$ 3,282	\$ 5,726	\$ 5,192
Long-term debt	23,691	28,733	33,571
Total Debt	26,973	34,459	38,763
Less: Cash and cash equivalents	5,686	9,342	4,813
Less: Time deposits	—	950	—
Less: Marketable securities	63	53	9
Total adjusted debt	21,224	24,114	33,941
Total Chevron Corporation Stockholders' Equity	144,213	154,554	148,124
Total adjusted debt plus total Chevron Corporation Stockholders' Equity	\$ 165,437	\$ 178,668	\$ 182,065
Net Debt Ratio	12.8 %	13.5 %	18.6 %

Capital Employed The sum of Chevron Corporation Stockholders' Equity, total debt and noncontrolling interests, which represents the net investment in the business.

Millions of dollars	At December 31		
	2019	2018	2017
Chevron Corporation Stockholders' Equity	\$ 144,213	\$ 154,554	\$ 148,124
Plus: Short-term debt	3,282	5,726	5,192
Plus: Long-term debt	23,691	28,733	33,571
Plus: Noncontrolling interest	995	1,088	1,195
Capital Employed at December 31	\$ 172,181	\$ 190,101	\$ 188,082

Return on Average Capital Employed (ROCE) Net income attributable to Chevron (adjusted for after-tax interest expense and noncontrolling interest) divided by average capital employed. Average capital employed is computed by averaging the sum of capital employed at the beginning and end of the year. ROCE is a ratio intended to measure annual earnings as a percentage of historical investments in the business.

Millions of dollars	Year ended December 31		
	2019	2018	2017
Net income attributable to Chevron	\$ 2,924	\$ 14,824	\$ 9,195
Plus: After-tax interest and debt expense	761	713	264
Plus: Noncontrolling interest	(79)	36	74
Net income after adjustments	3,606	15,573	9,533
Average capital employed	\$ 181,141	\$ 189,092	\$ 190,465
Return on Average Capital Employed	2.0 %	8.2 %	5.0 %

Return on Stockholders' Equity (ROSE) Net income attributable to Chevron divided by average Chevron Corporation Stockholders' Equity. Average stockholder's equity is computed by averaging the sum of stockholder's equity at the beginning and end of the year. ROSE is a ratio intended to measure earnings as a percentage of shareholder investments.

Millions of dollars	Year ended December 31		
	2019	2018	2017
Net income attributable to Chevron	\$ 2,924	\$ 14,824	\$ 9,195
Chevron Corporation Stockholders' Equity at December 31	144,213	154,554	148,124
Average Chevron Corporation Stockholders' Equity	149,384	151,339	146,840
Return on Average Stockholders' Equity	2.0 %	9.8 %	6.3 %

Off-Balance-Sheet Arrangements, Contractual Obligations, Guarantees and Other Contingencies

Long-Term Unconditional Purchase Obligations and Commitments, Including Throughput and Take-or-Pay Agreements Information related to these matters is included on page 87 in Note 22, Other Contingencies and Commitments.

The following table summarizes the company's significant contractual obligations:

Millions of dollars	Payments Due by Period				
	Total ¹	2020	2021-2022	2023-2024	After 2024
On Balance Sheet: ²					
Short-Term Debt ^{3, 4}	\$ 3,264	\$ 3,264	\$ —	\$ —	\$ —
Long-Term Debt ^{3, 4}	23,426	—	16,072	4,003	3,351
Leases	4,662	1,409	1,693	613	947
Interest ⁴	3,040	565	903	554	1,018
Off Balance Sheet:					
Throughput and Take-or-Pay Agreements ⁵	11,422	854	1,720	1,956	6,892
Other Unconditional Purchase Obligations ⁵	1,257	76	457	438	286

¹ Excludes contributions for pensions and other postretirement benefit plans. Information on employee benefit plans is contained in Note 21 beginning on page 82.

² Does not include amounts related to the company's income tax liabilities associated with uncertain tax positions. The company is unable to make reasonable estimates of the periods in which such liabilities may become payable. The company does not expect settlement of such liabilities to have a material effect on its consolidated financial position or liquidity in any single period.

³ \$9.75 billion of short-term debt that the company expects to refinance is included in long-term debt. The repayment schedule above reflects the projected repayment of the entire amounts in the 2021–2022 period. The amounts represent only the principal balance.

⁴ Excludes finance lease liabilities.

⁵ Does not include commodity purchase obligations that are not fixed or determinable. These obligations are generally monetized in a relatively short period of time through sales transactions or similar agreements with third parties. Examples include obligations to purchase LNG, regasified natural gas and refinery products at indexed prices.

Direct Guarantees

Millions of dollars	Commitment Expiration by Period				
	Total	2020	2021-2022	2023-2024	After 2024
Guarantee of nonconsolidated affiliate or joint-venture obligations	\$ 704	\$ 314	\$ 214	\$ 77	\$ 99

Additional information related to guarantees is included on page 87 in Note 22, Other Contingencies and Commitments.

Indemnifications Information related to indemnifications is included on page 87 in Note 22, Other Contingencies and Commitments.

Financial and Derivative Instrument Market Risk

The market risk associated with the company's portfolio of financial and derivative instruments is discussed below. The estimates of financial exposure to market risk do not represent the company's projection of future market changes. The actual impact of future market changes could differ materially due to factors discussed elsewhere in this report, including those set forth under the heading "Risk Factors" in Part I, Item 1A.

Derivative Commodity Instruments Chevron is exposed to market risks related to the price volatility of crude oil, refined products, natural gas, natural gas liquids, liquefied natural gas and refinery feedstocks. The company uses derivative commodity instruments to manage these exposures on a portion of its activity, including firm commitments and anticipated transactions for the purchase, sale and storage of crude oil, refined products, natural gas, natural gas liquids and feedstock for company refineries. The company also uses derivative commodity instruments for limited trading purposes. The results of these activities were not material to the company's financial position, results of operations or cash flows in 2019.

The company's market exposure positions are monitored on a daily basis by an internal Risk Control group in accordance with the company's risk management policies. The company's risk management practices and its compliance with policies are reviewed by the Audit Committee of the company's Board of Directors.

Derivatives beyond those designated as normal purchase and normal sale contracts are recorded at fair value on the Consolidated Balance Sheet with resulting gains and losses reflected in income. Fair values are derived principally from published market quotes and other independent third-party quotes. The change in fair value of Chevron's derivative commodity instruments in 2019 was not material to the company's results of operations.

The company uses the Monte Carlo simulation method as its Value-at-Risk (VaR) model to estimate the maximum potential loss in fair value, at the 95% confidence level with a one-day holding period, from the effect of adverse changes in market

conditions on derivative commodity instruments held or issued. Based on these inputs, the VaR for the company's primary risk exposures in the area of derivative commodity instruments at December 31, 2019 and 2018 was not material to the company's cash flows or results of operations.

Foreign Currency The company may enter into foreign currency derivative contracts to manage some of its foreign currency exposures. These exposures include revenue and anticipated purchase transactions, including foreign currency capital expenditures and lease commitments. The foreign currency derivative contracts, if any, are recorded at fair value on the balance sheet with resulting gains and losses reflected in income. There were no open foreign currency derivative contracts at December 31, 2019.

Interest Rates The company may enter into interest rate swaps from time to time as part of its overall strategy to manage the interest rate risk on its debt. Interest rate swaps, if any, are recorded at fair value on the balance sheet with resulting gains and losses reflected in income. At year-end 2019, the company had no interest rate swaps.

Transactions With Related Parties

Chevron enters into a number of business arrangements with related parties, principally its equity affiliates. These arrangements include long-term supply or offtake agreements and long-term purchase agreements. Refer to "Other Information" on page 71, in Note 13, Investments and Advances, for further discussion. Management believes these agreements have been negotiated on terms consistent with those that would have been negotiated with an unrelated party.

Litigation and Other Contingencies

MTBE Information related to methyl tertiary butyl ether (MTBE) matters is included on page 72 in Note 14 under the heading "MTBE."

Ecuador Information related to Ecuador matters is included in Note 14 under the heading "Ecuador," beginning on page 72.

Environmental The following table displays the annual changes to the company's before-tax environmental remediation reserves, including those for federal Superfund sites and analogous sites under state laws.

<i>Millions of dollars</i>	2019		2018		2017
Balance at January 1	\$	1,327	\$	1,429	\$ 1,467
Net Additions		200		197	323
Expenditures		(293)		(299)	(361)
Balance at December 31	\$	1,234	\$	1,327	\$ 1,429

The company records asset retirement obligations when there is a legal obligation associated with the retirement of long-lived assets and the liability can be reasonably estimated. These asset retirement obligations include costs related to environmental issues. The liability balance of approximately \$12.8 billion for asset retirement obligations at year-end 2019 related primarily to upstream properties.

For the company's other ongoing operating assets, such as refineries and chemicals facilities, no provisions are made for exit or cleanup costs that may be required when such assets reach the end of their useful lives unless a decision to sell or otherwise decommission the facility has been made, as the indeterminate settlement dates for the asset retirements prevent estimation of the fair value of the asset retirement obligation.

Refer to the discussion below for additional information on environmental matters and their impact on Chevron, and on the company's 2019 environmental expenditures. Refer to Note 22 on page 87 for additional discussion of environmental remediation provisions and year-end reserves. Refer also to Note 23 on page 89 for additional discussion of the company's asset retirement obligations.

Suspended Wells Information related to suspended wells is included in Note 19, Accounting for Suspended Exploratory Wells, beginning on page 79.

Income Taxes Information related to income tax contingencies is included on pages 74 through 76 in Note 15 and page 87 in Note 22 under the heading "Income Taxes."

Other Contingencies Information related to other contingencies is included on page 88 in Note 22 to the Consolidated Financial Statements under the heading "Other Contingencies."

Environmental Matters

The company is subject to various international, federal, state and local environmental, health and safety laws, regulations and market-based programs. These laws, regulations and programs continue to evolve and are expected to increase in both number and complexity over time and govern not only the manner in which the company conducts its operations, but also the products it sells. For example, international agreements and national, regional, and state legislation and regulatory measures that aim to limit or reduce greenhouse gas (GHG) emissions are currently in various stages of implementation. Consideration of GHG issues and the responses to those issues through international agreements and national, regional or state legislation or regulations are integrated into the company's strategy and planning, capital investment reviews and risk management tools and processes, where applicable. They are also factored into the company's long-range supply, demand and energy price forecasts. These forecasts reflect long-range effects from renewable fuel penetration, energy efficiency standards, climate-related policy actions, and demand response to oil and natural gas prices. In addition, legislation and regulations intended to address hydraulic fracturing also continue to evolve at the national, state and local levels. Refer to "Risk Factors" in Part I, Item 1A, on pages 18 through 21 for a discussion of some of the inherent risks of increasingly restrictive environmental and other regulation that could materially impact the company's results of operations or financial condition.

Most of the costs of complying with existing laws and regulations pertaining to company operations and products are embedded in the normal costs of doing business. However, it is not possible to predict with certainty the amount of additional investments in new or existing technology or facilities or the amounts of increased operating costs to be incurred in the future to: prevent, control, reduce or eliminate releases of hazardous materials or other pollutants into the environment; remediate and restore areas damaged by prior releases of hazardous materials; or comply with new environmental laws or regulations. Although these costs may be significant to the results of operations in any single period, the company does not presently expect them to have a material adverse effect on the company's liquidity or financial position.

Accidental leaks and spills requiring cleanup may occur in the ordinary course of business. The company may incur expenses for corrective actions at various owned and previously owned facilities and at third-party-owned waste disposal sites used by the company. An obligation may arise when operations are closed or sold or at non-Chevron sites where company products have been handled or disposed of. Most of the expenditures to fulfill these obligations relate to facilities and sites where past operations followed practices and procedures that were considered acceptable at the time but now require investigative or remedial work or both to meet current standards.

Using definitions and guidelines established by the American Petroleum Institute, Chevron estimated its worldwide environmental spending in 2019 at approximately \$2.0 billion for its consolidated companies. Included in these expenditures were approximately \$0.6 billion of environmental capital expenditures and \$1.4 billion of costs associated with the prevention, control, abatement or elimination of hazardous substances and pollutants from operating, closed or divested sites, and the decommissioning and restoration of sites.

For 2020, total worldwide environmental capital expenditures are estimated at \$0.4 billion. These capital costs are in addition to the ongoing costs of complying with environmental regulations and the costs to remediate previously contaminated sites.

Critical Accounting Estimates and Assumptions

Management makes many estimates and assumptions in the application of accounting principles generally accepted in the United States of America (GAAP) that may have a material impact on the company's consolidated financial statements and related disclosures and on the comparability of such information over different reporting periods. Such estimates and assumptions affect reported amounts of assets, liabilities, revenues and expenses, as well as disclosures of contingent assets and liabilities. Estimates and assumptions are based on management's experience and other information available prior to the issuance of the financial statements. Materially different results can occur as circumstances change and additional information becomes known.

The discussion in this section of "critical" accounting estimates and assumptions is according to the disclosure guidelines of the Securities and Exchange Commission (SEC), wherein:

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 the company's financial condition or operating performance is material.

The development and selection of accounting estimates and assumptions, including those deemed "critical," and the associated disclosures in this discussion have been discussed by management with the Audit Committee of the Board of Directors. The areas of accounting and the associated "critical" estimates and assumptions made by the company are as follows:

Oil and Gas Reserves Crude oil and natural gas reserves are estimates of future production that impact certain asset and expense accounts included in the Consolidated Financial Statements. Proved reserves are the estimated quantities of oil and gas that geoscience and engineering data demonstrate with reasonable certainty to be economically producible in the future under existing economic conditions, operating methods and government regulations. Proved reserves include both developed and undeveloped volumes. Proved developed reserves represent volumes expected to be recovered through existing wells with existing equipment and operating methods. Proved undeveloped reserves are volumes expected to be recovered from new wells on undrilled proved acreage, or from existing wells where a relatively major expenditure is required for recompletion. Variables impacting Chevron's estimated volumes of crude oil and natural gas reserves include field performance, available technology, commodity prices, and development and production costs.

The estimates of crude oil and natural gas reserves are important to the timing of expense recognition for costs incurred and to the valuation of certain oil and gas producing assets. Impacts of oil and gas reserves on Chevron's Consolidated Financial Statements, using the successful efforts method of accounting, include the following:

1. **Amortization** - Capitalized exploratory drilling and development costs are depreciated on a unit-of-production (UOP) basis using proved developed reserves. Acquisition costs of proved properties are amortized on a UOP basis using total proved reserves. During 2019, Chevron's UOP Depreciation, Depletion and Amortization (DD&A) for oil and gas properties was \$14.2 billion, and proved developed reserves at the beginning of 2019 were 6.3 billion barrels for consolidated companies. If the estimates of proved reserves used in the UOP calculations for consolidated operations had been lower by 5 percent across all oil and gas properties, UOP DD&A in 2019 would have increased by approximately \$700 million.
2. **Impairment** - Oil and gas reserves are used in assessing oil and gas producing properties for impairment. A significant reduction in the estimated reserves of a property would trigger an impairment review. Proved reserves (and, in some cases, a portion of unproved resources) are used to estimate future production volumes in the cash flow model. For a further discussion of estimates and assumptions used in impairment assessments, see *Impairment of Properties, Plant and Equipment and Investments in Affiliates* below.

Refer to Table V, "Reserve Quantity Information," beginning on page 96, for the changes in proved reserve estimates for the three years ended December 31, 2019, and to Table VII, "Changes in the Standardized Measure of Discounted Future Net Cash Flows From Proved Reserves" on page 103 for estimates of proved reserve values for each of the three years ended December 31, 2019.

This Oil and Gas Reserves commentary should be read in conjunction with the Properties, Plant and Equipment section of Note 1, beginning on page 57, which includes a description of the "successful efforts" method of accounting for oil and gas exploration and production activities.

Impairment of Properties, Plant and Equipment and Investments in Affiliates The company assesses its properties, plant and equipment (PP&E) for possible impairment whenever events or changes in circumstances indicate that the carrying value of the assets may not be recoverable. If the carrying value of an asset exceeds the future undiscounted cash flows expected from the asset, an impairment charge is recorded for the excess of carrying value of the asset over its estimated fair value.

Determination as to whether and how much an asset is impaired involves management estimates on highly uncertain matters, such as future commodity prices, operating expenses, production profiles, and the outlook for global or regional market supply-and-demand conditions for crude oil, natural gas, commodity chemicals and refined products. However, the impairment reviews and calculations are based on assumptions that are generally consistent with the company's business plans and long-term investment decisions. Refer also to the discussion of impairments of properties, plant and equipment in Note 16 on page 77 and to the section on Properties, Plant and Equipment in Note 1, "Summary of Significant Accounting Policies," beginning on page 57.

The company routinely performs impairment reviews when triggering events arise to determine whether any write-down in the carrying value of an asset or asset group is required. For example, when significant downward revisions to crude oil and natural gas reserves are made for any single field or concession, an impairment review is performed to determine if the carrying value of the asset remains recoverable. Similarly, a significant downward revision in the company's crude oil or natural gas price outlook would trigger impairment reviews for impacted upstream assets. In addition, impairments could occur due to changes in national, state or local environmental regulations or laws, including those designed to stop or impede the development or production of oil and gas. Also, if the expectation of sale of a particular asset or asset group in any period has been deemed more likely than not, an impairment review is performed, and if the estimated net proceeds exceed the carrying value of the asset or asset group, no impairment charge is required. Such calculations are reviewed each period until the asset or asset group is

disposed. Assets that are not impaired on a held-and-used basis could possibly become impaired if a decision is made to sell such assets. That is, the assets would be impaired if they are classified as held-for-sale and the estimated proceeds from the sale, less costs to sell, are less than the assets' associated carrying values.

Investments in common stock of affiliates that are accounted for under the equity method, as well as investments in other securities of these equity investees, are reviewed for impairment when the fair value of the investment falls below the company's carrying value. When this occurs, a determination must be made as to whether this loss is other-than-temporary, in which case the investment is impaired. Because of the number of differing assumptions potentially affecting whether an investment is impaired in any period or the amount of the impairment, a sensitivity analysis is not practicable.

In 2019, the company recorded impairments and write-offs for certain oil and gas properties following the review and approval of its business plan and capital expenditure program. As a result of the company's disciplined approach to capital allocation and a downward revision in its longer-term commodity price outlook, the company will reduce funding to various natural gas-related upstream opportunities including Appalachia shale, Kitimat LNG and other international projects. In addition, the revised long-term oil price outlook resulted in an impairment of Big Foot. No individually material impairments of PP&E or Investments were recorded for 2018 or 2017. A sensitivity analysis of the impact on earnings for these periods if other assumptions had been used in impairment reviews and impairment calculations is not practicable, given the broad range of the company's PP&E and the number of assumptions involved in the estimates. That is, favorable changes to some assumptions might have avoided the need to impair any assets in these periods, whereas unfavorable changes might have caused an additional unknown number of other assets to become impaired, or resulted in larger impacts on impaired assets.

Asset Retirement Obligations In the determination of fair value for an asset retirement obligation (ARO), the company uses various assumptions and judgments, including such factors as the existence of a legal obligation, estimated amounts and timing of settlements, discount and inflation rates, and the expected impact of advances in technology and process improvements. A sensitivity analysis of the ARO impact on earnings for 2019 is not practicable, given the broad range of the company's long-lived assets and the number of assumptions involved in the estimates. That is, favorable changes to some assumptions would have reduced estimated future obligations, thereby lowering accretion expense and amortization costs, whereas unfavorable changes would have the opposite effect. Refer to Note 23 on page 89 for additional discussions on asset retirement obligations.

Pension and Other Postretirement Benefit Plans Note 21, beginning on page 82, includes information on the funded status of the company's pension and other postretirement benefit (OPEB) plans reflected on the Consolidated Balance Sheet; the components of pension and OPEB expense reflected on the Consolidated Statement of Income; and the related underlying assumptions.

The determination of pension plan expense and obligations is based on a number of actuarial assumptions. Two critical assumptions are the expected long-term rate of return on plan assets and the discount rate applied to pension plan obligations. Critical assumptions in determining expense and obligations for OPEB plans, which provide for certain health care and life insurance benefits for qualifying retired employees and which are not funded, are the discount rate and the assumed health care cost-trend rates. Information related to the company's processes to develop these assumptions is included on page 84 in Note 21 under the relevant headings. Actual rates may vary significantly from estimates because of unanticipated changes beyond the company's control.

For 2019, the company used an expected long-term rate of return of 6.75 percent and a discount rate for service costs of 4.4 percent and a discount rate for interest cost of 3.7 percent for U.S. pension plans. The actual return for 2019 was 18.3 percent. For the 10 years ended December 31, 2019, actual asset returns averaged 8.1 percent for these plans. Additionally, with the exception of three years within this 10-year period, actual asset returns for these plans equaled or exceeded 6.75 percent during each year.

Total pension expense for 2019 was \$0.9 billion. An increase in the expected long-term return on plan assets or the discount rate would reduce pension plan expense, and vice versa. As an indication of the sensitivity of pension expense to the long-term rate of return assumption, a 1 percent increase in this assumption for the company's primary U.S. pension plan, which accounted for about 59 percent of companywide pension expense, would have reduced total pension plan expense for 2019 by approximately \$79 million. A 1 percent increase in the discount rates for this same plan would have reduced pension expense for 2019 by approximately \$197 million.

The aggregate funded status recognized at December 31, 2019, was a net liability of approximately \$5.2 billion. An increase in the discount rate would decrease the pension obligation, thus changing the funded status of a plan. At December 31, 2019, the company used a discount rate of 3.1 percent to measure the obligations for the U.S. pension plans. As an indication of the

sensitivity of pension liabilities to the discount rate assumption, a 0.25 percent increase in the discount rate applied to the company's primary U.S. pension plan, which accounted for about 62 percent of the companywide pension obligation, would have reduced the plan obligation by approximately \$401 million, and would have decreased the plan's underfunded status from approximately \$2.5 billion to \$2.1 billion.

For the company's OPEB plans, expense for 2019 was \$101 million, and the total liability, all unfunded at the end of 2019, was \$2.5 billion. For the main U.S. OPEB plan, the company used a discount rate for service cost of 4.5 percent and a discount rate for interest cost of 3.9 percent to measure expense in 2019, and a 3.1 percent discount rate to measure the benefit obligations at December 31, 2019. Discount rate changes, similar to those used in the pension sensitivity analysis, resulted in an immaterial impact on 2019 OPEB expense and OPEB liabilities at the end of 2019. For information on the sensitivity of the health care cost-trend rate, refer to page 84 in Note 21 under the heading "Other Benefit Assumptions."

Differences between the various assumptions used to determine expense and the funded status of each plan and actual experience are included in actuarial gain/loss. Refer to page 83 in Note 21 for a description of the method used to amortize the \$6.5 billion of before-tax actuarial losses recorded by the company as of December 31, 2019, and an estimate of the costs to be recognized in expense during 2020. In addition, information related to company contributions is included on page 86 in Note 21 under the heading "Cash Contributions and Benefit Payments."

Contingent Losses Management also makes judgments and estimates in recording liabilities for claims, litigation, tax matters and environmental remediation. Actual costs can frequently vary from estimates for a variety of reasons. For example, the costs for settlement of claims and litigation can vary from estimates based on differing interpretations of laws, opinions on culpability and assessments on the amount of damages. Similarly, liabilities for environmental remediation are subject to change because of changes in laws, regulations and their interpretation, the determination of additional information on the extent and nature of site contamination, and improvements in technology.

Under the accounting rules, a liability is generally recorded for these types of contingencies if management determines the loss to be both probable and estimable. The company generally reports these losses as "Operating expenses" or "Selling, general and administrative expenses" on the Consolidated Statement of Income. An exception to this handling is for income tax matters, for which benefits are recognized only if management determines the tax position is "more likely than not" (i.e., likelihood greater than 50 percent) to be allowed by the tax jurisdiction. For additional discussion of income tax uncertainties, refer to Note 22 beginning on page 87. Refer also to the business segment discussions elsewhere in this section for the effect on earnings from losses associated with certain litigation, environmental remediation and tax matters for the three years ended December 31, 2019.

An estimate as to the sensitivity to earnings for these periods if other assumptions had been used in recording these liabilities is not practicable because of the number of contingencies that must be assessed, the number of underlying assumptions and the wide range of reasonably possible outcomes, both in terms of the probability of loss and the estimates of such loss. For further information, refer to "Changes in management's estimates and assumptions may have a material impact on the company's consolidated financial statements and financial or operational performance in any given period" in "Risk Factors" in Part I, Item 1A, on page 21.

New Accounting Standards

Refer to Note 4 beginning on page 62 for information regarding new accounting standards.

Quarterly Results

Unaudited

Millions of dollars, except per-share amounts	2019				2018			
	4th Q	3rd Q	2nd Q	1st Q	4th Q	3rd Q	2nd Q	1st Q
Revenues and Other Income								
Sales and other operating revenues	\$ 34,574	\$ 34,779	\$ 36,323	\$ 34,189	\$ 40,338	\$ 42,105	\$ 40,491	\$ 35,968
Income from equity affiliates	538	1,172	1,196	1,062	1,642	1,555	1,493	1,637
Other income	1,238	165	1,331	(51)	372	327	252	159
Total Revenues and Other Income	36,350	36,116	38,850	35,200	42,352	43,987	42,236	37,764
Costs and Other Deductions								
Purchased crude oil and products	19,693	19,882	20,835	19,703	23,920	24,681	24,744	21,233
Operating expenses	5,987	5,325	5,187	4,886	5,645	4,985	5,213	4,701
Selling, general and administrative expenses	1,129	954	1,076	984	1,080	1,018	1,017	723
Exploration expenses	272	168	141	189	250	625	177	158
Depreciation, depletion and amortization	16,429	4,361	4,334	4,094	5,252	5,380	4,498	4,289
Taxes other than on income	969	1,059	1,047	1,061	901	1,259	1,363	1,344
Interest and debt expense	178	197	198	225	190	182	217	159
Other components of net periodic benefit costs	98	121	97	101	216	158	102	84
Total Costs and Other Deductions	44,755	32,067	32,915	31,243	37,454	38,288	37,331	32,691
Income (Loss) Before Income Tax Expense	(8,405)	4,049	5,935	3,957	4,898	5,699	4,905	5,073
Income Tax Expense (Benefit)	(1,738)	1,469	1,645	1,315	1,175	1,643	1,483	1,414
Net Income (Loss)	\$ (6,667)	\$ 2,580	\$ 4,290	\$ 2,642	\$ 3,723	\$ 4,056	\$ 3,422	\$ 3,659
Less: Net income attributable to noncontrolling interests	(57)	—	(15)	(7)	(7)	9	13	21
Net Income (Loss) Attributable to Chevron Corporation	\$ (6,610)	\$ 2,580	\$ 4,305	\$ 2,649	\$ 3,730	\$ 4,047	\$ 3,409	\$ 3,638
Per Share of Common Stock								
Net Income (Loss) Attributable to Chevron Corporation								
– Basic	\$ (3.51)	\$ 1.38	\$ 2.28	\$ 1.40	\$ 1.97	\$ 2.13	\$ 1.79	\$ 1.92
– Diluted	\$ (3.51)	\$ 1.36	\$ 2.27	\$ 1.39	\$ 1.95	\$ 2.11	\$ 1.78	\$ 1.90
Dividends	\$ 1.19	\$ 1.19	\$ 1.19	\$ 1.19	\$ 1.12	\$ 1.12	\$ 1.12	\$ 1.12

Management's Responsibility for Financial Statements

To the Stockholders of Chevron Corporation

Management of Chevron Corporation is responsible for preparing the accompanying consolidated financial statements and the related information appearing in this report. The statements were prepared in accordance with accounting principles generally accepted in the United States of America and fairly represent the transactions and financial position of the company. The financial statements include amounts that are based on management's best estimates and judgments.

As stated in its report included herein, the independent registered public accounting firm of PricewaterhouseCoopers LLP has audited the company's consolidated financial statements in accordance with the standards of the Public Company Accounting Oversight Board (United States).

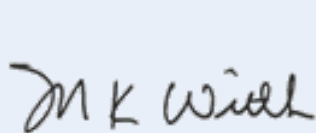
The Board of Directors of Chevron has an Audit Committee composed of directors who are not officers or employees of the company. The Audit Committee meets regularly with members of management, the internal auditors and the independent registered public accounting firm to review accounting, internal control, auditing and financial reporting matters. Both the internal auditors and the independent registered public accounting firm have free and direct access to the Audit Committee without the presence of management.

The company's management has evaluated, with the participation of the Chief Executive Officer and Chief Financial Officer, the effectiveness of the company's disclosure controls and procedures (as defined in the Exchange Act Rules 13a-15(e) and 15d-15(e)) as of December 31, 2019. Based on that evaluation, management concluded that the company's disclosure controls are effective in ensuring that information required to be recorded, processed, summarized and reported, are done within the time periods specified in the U.S. Securities and Exchange Commission's rules and forms.


Management's Report on Internal Control Over Financial Reporting

The company's management is responsible for establishing and maintaining adequate internal control over financial reporting, as defined in the Exchange Act Rules 13a-15(f) and 15d-15(f). The company's management, including the Chief Executive Officer and Chief Financial Officer, conducted an evaluation of the effectiveness of the company's internal control over financial reporting based on the *Internal Control – Integrated Framework* (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). Based on the results of this evaluation, the company's management concluded that internal control over financial reporting was effective as of December 31, 2019.

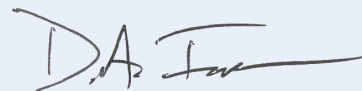
The effectiveness of the company's internal control over financial reporting as of December 31, 2019, has been audited by PricewaterhouseCoopers LLP, an independent registered public accounting firm, as stated in its report included herein.



Michael K. Wirth
Chairman of the Board
and Chief Executive Officer



Pierre R. Breber
Vice President
and Chief Financial Officer



David A. Inchausti
Vice President
and Comptroller

February 21, 2020

Report of Independent Registered Public Accounting Firm

To the Board of Directors and Shareholders of Chevron Corporation:

Opinions on the Financial Statements and Internal Control over Financial Reporting

We have audited the accompanying consolidated balance sheet of Chevron Corporation and its subsidiaries (the “Company”) as of December 31, 2019 and 2018, and the related consolidated statements of income, of comprehensive income, of equity and of cash flows for each of the three years in the period ended December 31, 2019, including the related notes and financial statement schedule listed in the index appearing under Item 15(a)(2) (collectively referred to as the “consolidated financial statements”). We also have audited the Company’s internal control over financial reporting as of December 31, 2019, 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, 2019 and 2018, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2019 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, 2019, 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 Crude Oil and Natural Gas Reserves and Other Factors on Upstream Property, Plant, and Equipment, Net

As described in Notes 1 and 16 to the consolidated financial statements, the Company's upstream property, plant and equipment, net balance was \$133.7 billion as of December 31, 2019, and related depreciation, depletion and amortization expense was \$27.8 billion, including impairments of \$10.8 billion for the year ended December 31, 2019. Management uses the successful efforts method for crude oil and natural gas exploration and production activities. Depreciation and depletion of all capitalized costs of proved crude oil and natural gas producing properties, except mineral interests, are expensed using the unit-of-production method, generally by individual field, as the proved developed reserves are produced. Depletion expenses for capitalized costs of proved mineral interests are recognized using the unit-of-production method by individual field as the related proved reserves are produced. Upstream property, plant, and equipment to be held and used, including proved crude oil and natural gas properties, are assessed for possible impairment by comparing their carrying values with their associated undiscounted, future net cash flows. Impaired assets are written down to their estimated fair values, generally their discounted, future net cash flows. As disclosed by management, determination as to whether and how much an asset is impaired involves management estimates on uncertain matters, such as future commodity prices, operating expenses, production profiles, and the outlook for global or regional market supply-and-demand conditions for crude oil, natural gas, commodity chemicals and refined products. Variables impacting Chevron's estimated volumes of crude oil and natural gas reserves include field performance, available technology, commodity prices, and development and production costs. Reserves are estimated by Company asset teams composed of earth scientists and engineers. As part of the internal control process related to reserves estimation, the Company maintains a Reserves Advisory Committee (RAC) (the RAC is referred to as "management's specialists").

The principal considerations for our determination that performing procedures relating to the impact of crude oil and natural gas reserves and other factors on upstream property, plant, and equipment, net is a critical audit matter are there was significant judgment by management, including the use of management's specialists, when developing the estimates of proved crude oil and natural gas reserves and assessing upstream property, plant, and equipment to be held and used for impairment. This in turn led to a high degree of auditor judgment, subjectivity, and effort in performing procedures and evaluating audit evidence obtained related to the significant assumptions used by management, including future commodity prices, production profiles, development costs, and operating expenses.

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 calculation of upstream depreciation, depletion and amortization expense, assessment of upstream property, plant, and equipment to be held and used for impairment, and estimates of proved crude oil and natural gas reserves. These procedures also included, among others, (i) testing the unit-of-production rates used to calculate depreciation, depletion and amortization expense, (ii) testing the completeness, accuracy, and relevance of underlying data used in management's estimates, and (iii) evaluating the significant assumptions used by management in developing these estimates, including future commodity prices, production profiles, development costs and operating expenses. Evaluating the significant assumptions relating to the estimates of crude oil and natural gas reserves also involved obtaining evidence to support the reasonableness of the assumptions, including whether the assumptions used were reasonable considering the past performance of the company, and whether they were consistent with evidence obtained in other areas of the audit. The work of management's specialists was used in performing the procedures to evaluate the reasonableness of these estimates of proved crude oil and natural gas reserves. As a basis for using this work, the specialists' qualifications and objectivity were understood, as well as the methods and assumptions used by the specialists. The procedures performed also included tests of the data used by the specialists and an evaluation of the specialists' findings.

PricewaterhouseCoopers LLP

San Francisco, California

February 21, 2020

We have served as the Company's auditor since 1935.

Consolidated Statement of Income
Millions of dollars, except per-share amounts

	Year ended December 31		
	2019	2018	2017
Revenues and Other Income			
Sales and other operating revenues ¹	\$ 139,865	\$ 158,902	\$ 134,674
Income from equity affiliates	3,968	6,327	4,438
Other income	2,683	1,110	2,610
Total Revenues and Other Income	146,516	166,339	141,722
Costs and Other Deductions			
Purchased crude oil and products	80,113	94,578	75,765
Operating expenses	21,385	20,544	19,127
Selling, general and administrative expenses	4,143	3,838	4,110
Exploration expenses	770	1,210	864
Depreciation, depletion and amortization	29,218	19,419	19,349
Taxes other than on income ¹	4,136	4,867	12,331
Interest and debt expense	798	748	307
Other components of net periodic benefit costs	417	560	648
Total Costs and Other Deductions	140,980	145,764	132,501
Income (Loss) Before Income Tax Expense	5,536	20,575	9,221
Income Tax Expense (Benefit)	2,691	5,715	(48)
Net Income (Loss)	2,845	14,860	9,269
Less: Net income (loss) attributable to noncontrolling interests	(79)	36	74
Net Income (Loss) Attributable to Chevron Corporation	\$ 2,924	\$ 14,824	\$ 9,195
Per Share of Common Stock			
Net Income (Loss) Attributable to Chevron Corporation			
- Basic	\$ 1.55	\$ 7.81	\$ 4.88
- Diluted	\$ 1.54	\$ 7.74	\$ 4.85

¹ 2017 include excise, value-added and similar taxes of \$7,189, collected on behalf of third parties. Beginning in 2018, these taxes are netted in "Taxes other than on income" in accordance with Accounting Standards Update (ASU) 2014-09. Refer to Note 24, "Revenue" beginning on page 89.

See accompanying Notes to the Consolidated Financial Statements.

Consolidated Statement of Comprehensive Income

Millions of dollars

	Year ended December 31		
	2019	2018	2017
Net Income (Loss)	\$ 2,845	\$ 14,860	\$ 9,269
Currency translation adjustment			
Unrealized net change arising during period	(18)	(19)	57
Unrealized holding gain (loss) on securities			
Net gain (loss) arising during period	2	(5)	(3)
Derivatives			
Net derivatives loss on hedge transactions	(1)	—	—
Reclassification to net income of net realized gain	—	—	—
Income taxes on derivatives transactions	3	—	—
Total	2	—	—
Defined benefit plans			
Actuarial gain (loss)			
Amortization to net income of net actuarial loss and settlements	519	792	817
Actuarial gain (loss) arising during period	(2,404)	85	(571)
Prior service credits (cost)			
Amortization to net income of net prior service costs and curtailments	4	(13)	(20)
Prior service (costs) credits arising during period	(28)	(26)	(1)
Defined benefit plans sponsored by equity affiliates - benefit (cost)	(33)	23	19
Income (taxes) benefit on defined benefit plans	510	(230)	(44)
Total	(1,432)	631	200
Other Comprehensive Gain (Loss), Net of Tax	(1,446)	607	254
Comprehensive Income	1,399	15,467	9,523
Comprehensive loss (income) attributable to noncontrolling interests	79	(36)	(74)
Comprehensive Income (Loss) Attributable to Chevron Corporation	\$ 1,478	\$ 15,431	\$ 9,449

See accompanying Notes to the Consolidated Financial Statements.

Consolidated Balance Sheet
Millions of dollars, except per-share amounts

	At December 31	
	2019	2018
Assets		
Cash and cash equivalents	\$ 5,686	\$ 9,342
Time deposits	—	950
Marketable securities	63	53
Accounts and notes receivable (less allowance: 2019 - \$746; 2018 - \$869)	13,325	15,050
Inventories:		
Crude oil and petroleum products	3,722	3,383
Chemicals	492	487
Materials, supplies and other	1,634	1,834
Total inventories	5,848	5,704
Prepaid expenses and other current assets	3,407	2,922
Total Current Assets	28,329	34,021
Long-term receivables, net	1,511	1,942
Investments and advances	38,688	35,546
Properties, plant and equipment, at cost	326,722	340,244
Less: Accumulated depreciation, depletion and amortization	176,228	171,037
Properties, plant and equipment, net	150,494	169,207
Deferred charges and other assets	10,532	6,766
Goodwill	4,463	4,518
Assets held for sale	3,411	1,863
Total Assets	\$ 237,428	\$ 253,863
Liabilities and Equity		
Short-term debt	\$ 3,282	\$ 5,726
Accounts payable	14,103	13,953
Accrued liabilities	6,589	4,927
Federal and other taxes on income	1,554	1,628
Other taxes payable	1,002	937
Total Current Liabilities	26,530	27,171
Long-term debt ¹	23,691	28,733
Deferred credits and other noncurrent obligations	20,445	19,742
Noncurrent deferred income taxes	13,688	15,921
Noncurrent employee benefit plans	7,866	6,654
Total Liabilities²	\$ 92,220	\$ 98,221
Preferred stock (authorized 100,000,000 shares; \$1.00 par value; none issued)	—	—
Common stock (authorized 6,000,000,000 shares; \$0.75 par value; 2,442,676,580 shares issued at December 31, 2019 and 2018)	1,832	1,832
Capital in excess of par value	17,265	17,112
Retained earnings	174,945	180,987
Accumulated other comprehensive losses	(4,990)	(3,544)
Deferred compensation and benefit plan trust	(240)	(240)
Treasury stock, at cost (2019 - 560,508,479 shares; 2018 - 539,838,890 shares)	(44,599)	(41,593)
Total Chevron Corporation Stockholders' Equity	144,213	154,554
Noncontrolling interests	995	1,088
Total Equity	145,208	155,642
Total Liabilities and Equity	\$ 237,428	\$ 253,863

¹ Includes finance lease liabilities of \$282 and \$127 at December 31, 2019 and 2018, respectively.

² Refer to Note 22, "Other Contingencies and Commitments" beginning on page 87.

See accompanying Notes to the Consolidated Financial Statements.

Consolidated Statement of Cash Flows

Millions of dollars

	Year ended December 31		
	2019	2018	2017
Operating Activities			
Net Income (Loss)	\$ 2,845	\$ 14,860	\$ 9,269
Adjustments			
Depreciation, depletion and amortization	29,218	19,419	19,349
Dry hole expense	172	687	198
Distributions less than income from equity affiliates	(2,073)	(3,580)	(2,380)
Net before-tax gains on asset retirements and sales	(1,367)	(619)	(2,195)
Net foreign currency effects	272	123	131
Deferred income tax provision	(1,966)	1,050	(3,203)
Net decrease (increase) in operating working capital	1,494	(718)	520
Decrease (increase) in long-term receivables	502	418	(368)
Net decrease (increase) in other deferred charges	(69)	—	(254)
Cash contributions to employee pension plans	(1,362)	(1,035)	(980)
Other	(352)	13	251
Net Cash Provided by Operating Activities	27,314	30,618	20,338
Investing Activities			
Capital expenditures	(14,116)	(13,792)	(13,404)
Proceeds and deposits related to asset sales and returns of investment	2,951	2,392	5,096
Net maturities of (investments in) time deposits	950	(950)	—
Net sales (purchases) of marketable securities	2	(51)	4
Net repayment (borrowing) of loans by equity affiliates	(1,245)	111	(16)
Net Cash Used for Investing Activities	(11,458)	(12,290)	(8,320)
Financing Activities			
Net borrowings (repayments) of short-term obligations	(2,821)	2,021	(5,142)
Proceeds from issuances of long-term debt	—	218	3,991
Repayments of long-term debt and other financing obligations	(5,025)	(6,741)	(6,310)
Cash dividends - common stock	(8,959)	(8,502)	(8,132)
Distributions to noncontrolling interests	(18)	(91)	(78)
Net sales (purchases) of treasury shares	(2,935)	(604)	1,117
Net Cash Provided by (Used for) Financing Activities	(19,758)	(13,699)	(14,554)
Effect of Exchange Rate Changes on Cash, Cash Equivalents and Restricted Cash	332	(91)	65
Net Change in Cash, Cash Equivalents and Restricted Cash	(3,570)	4,538	(2,471)
Cash, Cash Equivalents and Restricted Cash at January 1	10,481	5,943	8,414
Cash, Cash Equivalents and Restricted Cash at December 31	\$ 6,911	\$ 10,481	\$ 5,943

See accompanying Notes to the Consolidated Financial Statements.

Consolidated Statement of Equity
Amounts in millions of dollars

	Common Stock ¹	Retained Earnings	Acc. Other Comprehensive Income (Loss)	Treasury Stock (at cost)	Chevron Corp. Stockholders' Equity	Noncontrolling Interests	Total Equity
Balance at December 31, 2016	\$ 18,187	\$ 173,046	\$ (3,843)	\$ (41,834)	\$ 145,556	\$ 1,166	\$ 146,722
Treasury stock transactions	253	—	—	—	253	—	253
Net income (loss)	—	9,195	—	—	9,195	74	9,269
Cash dividends	—	(8,132)	—	—	(8,132)	(78)	(8,210)
Stock dividends	—	(3)	—	—	(3)	—	(3)
Other comprehensive income	—	—	254	—	254	—	254
Purchases of treasury shares	—	—	—	(1)	(1)	—	(1)
Issuances of treasury shares	—	—	—	1,002	1,002	—	1,002
Other changes, net	—	—	—	—	—	33	33
Balance at December 31, 2017	\$ 18,440	\$ 174,106	\$ (3,589)	\$ (40,833)	\$ 148,124	\$ 1,195	\$ 149,319
Treasury stock transactions	264	—	—	—	264	—	264
Net income (loss)	—	14,824	—	—	14,824	36	14,860
Cash dividends	—	(8,502)	—	—	(8,502)	(91)	(8,593)
Stock dividends	—	(3)	—	—	(3)	—	(3)
Other comprehensive income	—	—	607	—	607	—	607
Purchases of treasury shares	—	—	—	(1,751)	(1,751)	—	(1,751)
Issuances of treasury shares	—	—	—	991	991	—	991
Other changes, net	—	562	(562)	—	—	(52)	(52)
Balance at December 31, 2018	\$ 18,704	\$ 180,987	\$ (3,544)	\$ (41,593)	\$ 154,554	\$ 1,088	\$ 155,642
Treasury stock transactions	153	—	—	—	153	—	153
Net income (loss)	—	2,924	—	—	2,924	(79)	2,845
Cash dividends	—	(8,959)	—	—	(8,959)	(18)	(8,977)
Stock dividends	—	(3)	—	—	(3)	—	(3)
Other comprehensive income	—	—	(1,446)	—	(1,446)	—	(1,446)
Purchases of treasury shares	—	—	—	(4,039)	(4,039)	—	(4,039)
Issuances of treasury shares	—	—	—	1,033	1,033	—	1,033
Other changes, net	—	(4)	—	—	(4)	4	—
Balance at December 31, 2019	\$ 18,857	\$ 174,945	\$ (4,990)	\$ (44,599)	\$ 144,213	\$ 995	\$ 145,208

Common Stock Share Activity

	Issued ²	Treasury	Outstanding
Balance at December 31, 2016	2,442,676,580	(551,170,158)	1,891,506,422
Purchases	—	(10,237)	(10,237)
Issuances	—	13,205,700	13,205,700
Balance at December 31, 2017	2,442,676,580	(537,974,695)	1,904,701,885
Purchases	—	(14,912,039)	(14,912,039)
Issuances	—	13,047,844	13,047,844
Balance at December 31, 2018	2,442,676,580	(539,838,890)	1,902,837,690
Purchases	—	(33,955,300)	(33,955,300)
Issuances	—	13,285,711	13,285,711
Balance at December 31, 2019	2,442,676,580	(560,508,479)	1,882,168,101

¹ Beginning and ending balances for all periods include capital in excess of par, common stock issued at par for \$1,832, and \$(240) associated with Chevron's Benefit Plan Trust. Changes reflect capital in excess of par.

² Beginning and ending total issued share balances include 14,168 shares associated with Chevron's Benefit Plan Trust.

See accompanying Notes to the Consolidated Financial Statements.

Note 1

Summary of Significant Accounting Policies

General The company's Consolidated Financial Statements are prepared in accordance with accounting principles generally accepted in the United States of America. These require the use of estimates and assumptions that affect the assets, liabilities, revenues and expenses reported in the financial statements, as well as amounts included in the notes thereto, including discussion and disclosure of contingent liabilities. Although the company uses its best estimates and judgments, actual results could differ from these estimates as circumstances change and additional information becomes known.

Subsidiary and Affiliated Companies The Consolidated Financial Statements include the accounts of controlled subsidiary companies more than 50 percent-owned and any variable-interest entities in which the company is the primary beneficiary. Undivided interests in oil and gas joint ventures and certain other assets are consolidated on a proportionate basis. Investments in and advances to affiliates in which the company has a substantial ownership interest of approximately 20 percent to 50 percent, or for which the company exercises significant influence but not control over policy decisions, are accounted for by the equity method.

Investments in affiliates are assessed for possible impairment when events indicate that the fair value of the investment may be below the company's carrying value. When such a condition is deemed to be other than temporary, the carrying value of the investment is written down to its fair value, and the amount of the write-down is included in net income. In making the determination as to whether a decline is other than temporary, the company considers such factors as the duration and extent of the decline, the investee's financial performance, and the company's ability and intention to retain its investment for a period that will be sufficient to allow for any anticipated recovery in the investment's market value. The new cost basis of investments in these equity investees is not changed for subsequent recoveries in fair value.

Differences between the company's carrying value of an equity investment and its underlying equity in the net assets of the affiliate are assigned to the extent practicable to specific assets and liabilities based on the company's analysis of the various factors giving rise to the difference. When appropriate, the company's share of the affiliate's reported earnings is adjusted quarterly to reflect the difference between these allocated values and the affiliate's historical book values.

Noncontrolling Interests Ownership interests in the company's subsidiaries held by parties other than the parent are presented separately from the parent's equity on the Consolidated Balance Sheet. The amount of consolidated net income attributable to the parent and the noncontrolling interests are both presented on the face of the Consolidated Statement of Income and Consolidated Statement of Equity.

Fair Value Measurements The three levels of the fair value hierarchy of inputs the company uses to measure the fair value of an asset or a liability are as follows. Level 1 inputs are quoted prices in active markets for identical assets or liabilities. Level 2 inputs are inputs other than quoted prices included within Level 1 that are directly or indirectly observable for the asset or liability. Level 3 inputs are inputs that are not observable in the market.

Derivatives The majority of the company's activity in derivative commodity instruments is intended to manage the financial risk posed by physical transactions. For some of this derivative activity, generally limited to large, discrete or infrequently occurring transactions, the company may elect to apply fair value or cash flow hedge accounting. For other similar derivative instruments, generally because of the short-term nature of the contracts or their limited use, the company does not apply hedge accounting, and changes in the fair value of those contracts are reflected in current income. For the company's commodity trading activity, gains and losses from derivative instruments are reported in current income. The company may enter into interest rate swaps from time to time as part of its overall strategy to manage the interest rate risk on its debt. Interest rate swaps related to a portion of the company's fixed-rate debt, if any, may be accounted for as fair value hedges. Interest rate swaps related to floating-rate debt, if any, are recorded at fair value on the balance sheet with resulting gains and losses reflected in income. Where Chevron is a party to master netting arrangements, fair value receivable and payable amounts recognized for derivative instruments executed with the same counterparty are generally offset on the balance sheet.

Inventories Crude oil, petroleum products and chemicals inventories are generally stated at cost, using a last-in, first-out method. In the aggregate, these costs are below market. "Materials, supplies and other" inventories are primarily stated at cost or net realizable value.

Properties, Plant and Equipment The successful efforts method is used for crude oil and natural gas exploration and production activities. All costs for development wells, related plant and equipment, proved mineral interests in crude oil and natural gas properties, and related asset retirement obligation (ARO) assets are capitalized. Costs of exploratory wells are capitalized pending determination of whether the wells found proved reserves. Costs of wells that are assigned proved

reserves remain capitalized. Costs also are capitalized for exploratory wells that have found crude oil and natural gas reserves even if the reserves cannot be classified as proved when the drilling is completed, provided the exploratory well has found a sufficient quantity of reserves to justify its completion as a producing well and the company is making sufficient progress assessing the reserves and the economic and operating viability of the project. All other exploratory wells and costs are expensed. Refer to Note 19, beginning on page 79, for additional discussion of accounting for suspended exploratory well costs.

Long-lived assets to be held and used, including proved crude oil and natural gas properties, are assessed for possible impairment by comparing their carrying values with their associated undiscounted, future net cash flows. Events that can trigger assessments for possible impairments include write-downs of proved reserves based on field performance, significant decreases in the market value of an asset (including changes to the commodity price forecast), significant change in the extent or manner of use of or a physical change in an asset, and a more-likely-than-not expectation that a long-lived asset or asset group will be sold or otherwise disposed of significantly sooner than the end of its previously estimated useful life. Impaired assets are written down to their estimated fair values, generally their discounted, future net cash flows. For proved crude oil and natural gas properties, the company performs impairment reviews on a country, concession, PSC, development area or field basis, as appropriate. In Downstream, impairment reviews are performed on the basis of a refinery, a plant, a marketing/lubricants area or distribution area, as appropriate. Impairment amounts are recorded as incremental "Depreciation, depletion and amortization" expense.

Long-lived assets that are held for sale are evaluated for possible impairment by comparing the carrying value of the asset with its fair value less the cost to sell. If the net book value exceeds the fair value less cost to sell, the asset is considered impaired and adjusted to the lower value. Refer to Note 7, beginning on page 65, relating to fair value measurements. The fair value of a liability for an ARO is recorded as an asset and a liability when there is a legal obligation associated with the retirement of a long-lived asset and the amount can be reasonably estimated. Refer also to Note 23, on page 89, relating to AROs.

Depreciation and depletion of all capitalized costs of proved crude oil and natural gas producing properties, except mineral interests, are expensed using the unit-of-production method, generally by individual field, as the proved developed reserves are produced. Depletion expenses for capitalized costs of proved mineral interests are recognized using the unit-of-production method by individual field as the related proved reserves are produced. Impairments of capitalized costs of unproved mineral interests are expensed.

The capitalized costs of all other plant and equipment are depreciated or amortized over their estimated useful lives. In general, the declining-balance method is used to depreciate plant and equipment in the United States; the straight-line method is generally used to depreciate international plant and equipment and to amortize finance lease right-of-use assets.

Gains or losses are not recognized for normal retirements of properties, plant and equipment subject to composite group amortization or depreciation. Gains or losses from abnormal retirements are recorded as expenses, and from sales as "Other income."

Expenditures for maintenance (including those for planned major maintenance projects), repairs and minor renewals to maintain facilities in operating condition are generally expensed as incurred. Major replacements and renewals are capitalized.

Goodwill Goodwill resulting from a business combination is not subject to amortization. The company tests such goodwill at the reporting unit level for impairment annually at December 31, or more frequently if an event occurs or circumstances change that would more likely than not reduce the fair value of the reporting unit below its carrying amount.

Environmental Expenditures Environmental expenditures that relate to ongoing operations or to conditions caused by past operations are expensed. Expenditures that create future benefits or contribute to future revenue generation are capitalized.

Liabilities related to future remediation costs are recorded when environmental assessments or cleanups or both are probable and the costs can be reasonably estimated. For crude oil, natural gas and mineral-producing properties, a liability for an ARO is made in accordance with accounting standards for asset retirement and environmental obligations. Refer to Note 23, on page 89, for a discussion of the company's AROs.

For federal Superfund sites and analogous sites under state laws, the company records a liability for its designated share of the probable and estimable costs, and probable amounts for other potentially responsible parties when mandated by the regulatory agencies because the other parties are not able to pay their respective shares. The gross amount of environmental liabilities is based on the company's best estimate of future costs using currently available technology and applying current

regulations and the company's own internal environmental policies. Future amounts are not discounted. Recoveries or reimbursements are recorded as assets when receipt is reasonably assured.

Currency Translation The U.S. dollar is the functional currency for substantially all of the company's consolidated operations and those of its equity affiliates. For those operations, all gains and losses from currency remeasurement are included in current period income. The cumulative translation effects for those few entities, both consolidated and affiliated, using functional currencies other than the U.S. dollar are included in "Currency translation adjustment" on the Consolidated Statement of Equity.

Revenue Recognition The company accounts for each delivery order of crude oil, natural gas, petroleum and chemical products as a separate performance obligation. Revenue is recognized when the performance obligation is satisfied, which typically occurs at the point in time when control of the product transfers to the customer. Payment is generally due within 30 days of delivery. The company accounts for delivery transportation as a fulfillment cost, not a separate performance obligation, and recognizes these costs as an operating expense in the period when revenue for the related commodity is recognized.

Revenue is measured as the amount the company expects to receive in exchange for transferring commodities to the customer. The company's commodity sales are typically based on prevailing market-based prices and may include discounts and allowances. Until market prices become known under terms of the company's contracts, the transaction price included in revenue is based on the company's estimate of the most likely outcome.

Discounts and allowances are estimated using a combination of historical and recent data trends. When deliveries contain multiple products, an observable standalone selling price is generally used to measure revenue for each product. The company includes estimates in the transaction price only to the extent that a significant reversal of revenue is not probable in subsequent periods.

Excise, value-added and similar taxes assessed by a governmental authority on a revenue-producing transaction between a seller and a customer are presented on a net basis in "Taxes other than on income" on the Consolidated Statement of Income, on page 52. Purchases and sales of inventory with the same counterparty that are entered into in contemplation of one another (including buy/sell arrangements) are combined and recorded on a net basis and reported in "Purchased crude oil and products" on the Consolidated Statement of Income.

Prior to the adoption of ASC 606 on January 1, 2018, revenues associated with sales of crude oil, natural gas, petroleum and chemicals products, and all other sources were recorded when title passed to the customer, net of royalties, discounts and allowances, as applicable. Revenues from natural gas production from properties in which Chevron has an interest with other producers were generally recognized using the entitlement method. Excise, value-added and similar taxes assessed by a governmental authority on a revenue-producing transaction between a seller and a customer were presented on a gross basis on the Consolidated Statement of Income.

Stock Options and Other Share-Based Compensation The company issues stock options and other share-based compensation to certain employees. For equity awards, such as stock options, total compensation cost is based on the grant date fair value, and for liability awards, such as stock appreciation rights, total compensation cost is based on the settlement value. The company recognizes stock-based compensation expense for all awards over the service period required to earn the award, which is the shorter of the vesting period or the time period in which an employee becomes eligible to retain the award at retirement. The company's Long-Term Incentive Plan (LTIP) awards include stock options and stock appreciation rights, which have graded vesting provisions by which one-third of each award vests on each of the first, second and third anniversaries of the date of grant. In addition, performance shares granted under the company's LTIP will vest at the end of the three-year performance period. For awards granted under the company's LTIP beginning in 2017, stock options and stock appreciation rights have graded vesting by which one third of each award vests annually on each January 31 on or after the first anniversary of the grant date. Standard restricted stock unit awards have cliff vesting by which the total award will vest on January 31 on or after the fifth anniversary of the grant date, subject to adjustment upon termination pursuant to the satisfaction of certain criteria. The company amortizes these awards on a straight-line basis.

Note 2

Changes in Accumulated Other Comprehensive Losses

The change in Accumulated Other Comprehensive Losses (AOCL) presented on the Consolidated Balance Sheet and the impact of significant amounts reclassified from AOCL on information presented in the Consolidated Statement of Income for the year ended December 31, 2019, are reflected in the table below.

	Currency Translation Adjustments	Unrealized Holding Gains (Losses) on Securities	Derivatives	Defined Benefit Plans	Total
Balance at December 31, 2016	\$ (162)	\$ (2)	\$ (2)	\$ (3,677)	\$ (3,843)
Components of Other Comprehensive Income (Loss) ¹ :					
Before Reclassifications	57	(3)	—	(310)	(256)
Reclassifications ²	—	—	—	510	510
Net Other Comprehensive Income (Loss)	57	(3)	—	200	254
Balance at December 31, 2017	\$ (105)	\$ (5)	\$ (2)	\$ (3,477)	\$ (3,589)
Components of Other Comprehensive Income (Loss) ¹ :					
Before Reclassifications	(19)	(5)	—	28	4
Reclassifications ²	—	—	—	603	603
Net Other Comprehensive Income (Loss)	(19)	(5)	—	631	607
Stranded Tax Reclassification to Retained Earnings ³	—	—	—	(562)	(562)
Balance at December 31, 2018	\$ (124)	\$ (10)	\$ (2)	\$ (3,408)	\$ (3,544)
Components of Other Comprehensive Income (Loss) ¹ :					
Before Reclassifications	(18)	2	(1)	(1,838)	(1,855)
Reclassifications ²	—	—	3	406	409
Net Other Comprehensive Income (Loss)	(18)	2	2	(1,432)	(1,446)
Balance at December 31, 2019	\$ (142)	\$ (8)	\$ —	\$ (4,840)	\$ (4,990)

¹ All amounts are net of tax.

² Refer to Note 21 beginning on page 82, for reclassified components totaling \$523 that are included in employee benefit costs for the year ended December 31, 2019. Related income taxes for the same period, totaling \$117, are reflected in Income Tax Expense on the Consolidated Statement of Income. All other reclassified amounts were insignificant.

³ Stranded tax reclassification to retained earnings per ASU 2018-02.

Note 3

Information Relating to the Consolidated Statement of Cash Flows

	Year ended December 31		
	2019	2018	2017
Net decrease (increase) in operating working capital was composed of the following:			
Decrease (increase) in accounts and notes receivable	\$ 1,852	\$ 437	\$ (915)
Decrease (increase) in inventories	7	(424)	(267)
Decrease (increase) in prepaid expenses and other current assets	(323)	(149)	173
Increase (decrease) in accounts payable and accrued liabilities	(109)	(494)	998
Increase (decrease) in income and other taxes payable	67	(88)	531
Net decrease (increase) in operating working capital	\$ 1,494	\$ (718)	\$ 520
Net cash provided by operating activities includes the following cash payments:			
Interest on debt (net of capitalized interest)	\$ 810	\$ 736	\$ 265
Income taxes	4,817	4,748	3,132
Proceeds and deposits related to asset sales and returns of investment consisted of the following gross amounts:			
Proceeds and deposits related to asset sales	\$ 2,809	\$ 2,000	\$ 4,930
Returns of investment from equity affiliates	142	392	166
Proceeds and deposits related to asset sales and returns of investment	\$ 2,951	\$ 2,392	\$ 5,096
Net maturities (investments) of time deposits consisted of the following gross amounts:			
Investments in time deposits	\$ —	\$ (950)	\$ —
Maturities of time deposits	950	—	—
Net maturities of (investments in) time deposits	\$ 950	\$ (950)	\$ —
Net sales (purchases) of marketable securities consisted of the following gross amounts:			
Marketable securities purchased	\$ (1)	\$ (51)	\$ (3)
Marketable securities sold	3	—	7
Net sales (purchases) of marketable securities	\$ 2	\$ (51)	\$ 4
Net repayment (borrowing) of loans by equity affiliates:			
Borrowing of loans by equity affiliates	\$ (1,350)	\$ —	\$ (142)
Repayment of loans by equity affiliates	105	111	126
Net repayment (borrowing) of loans by equity affiliates	\$ (1,245)	\$ 111	\$ (16)
Net borrowings (repayments) of short-term obligations consisted of the following gross and net amounts:			
Proceeds from issuances of short-term obligations	\$ 2,586	\$ 2,486	\$ 5,051
Repayments of short-term obligations	(1,430)	(4,136)	(8,820)
Net borrowings (repayments) of short-term obligations with three months or less maturity	(3,977)	3,671	(1,373)
Net borrowings (repayments) of short-term obligations	\$ (2,821)	\$ 2,021	\$ (5,142)
Net sales (purchases) of treasury shares consists of the following gross and net amounts:			
Shares issued for share-based compensation plans	\$ 1,104	\$ 1,147	\$ 1,118
Shares purchased under share repurchase and deferred compensation plans	(4,039)	(1,751)	(1)
Net sales (purchases) of treasury shares	\$ (2,935)	\$ (604)	\$ 1,117

The Consolidated Statement of Cash Flows excludes changes to the Consolidated Balance Sheet that did not affect cash.

The “Other” line in the Operating Activities section includes changes in postretirement benefits obligations and other long-term liabilities.

The Consolidated Statement of Cash Flows excludes changes to the Consolidated Balance Sheet that did not affect cash. “Depreciation, depletion and amortization,” “Deferred income tax provision,” and “Dry hole expense” collectively include approximately \$9.3 billion and \$1.1 billion in non-cash reductions recorded in 2019 and 2018, respectively, relating to impairments and other non-cash charges.

Refer also to Note 23, on page 89, for a discussion of revisions to the company’s AROs that also did not involve cash receipts or payments for the three years ending December 31, 2019.

The major components of “Capital expenditures” and the reconciliation of this amount to the reported capital and exploratory expenditures, including equity affiliates, are presented in the following table:

	Year ended December 31		
	2019	2018	2017
Additions to properties, plant and equipment *	\$ 13,839	\$ 13,384	\$ 13,222
Additions to investments	140	65	25
Current-year dry hole expenditures	124	344	157
Payments for other assets and liabilities, net	13	(1)	—
Capital expenditures	14,116	13,792	13,404
Expensed exploration expenditures	598	523	666
Assets acquired through finance leases and other obligations	181	75	8
Payments for other assets and liabilities, net	(13)	—	—
Capital and exploratory expenditures, excluding equity affiliates	14,882	14,390	14,078
Company’s share of expenditures by equity affiliates	6,112	5,716	4,743
Capital and exploratory expenditures, including equity affiliates	\$ 20,994	\$ 20,106	\$ 18,821

* Excludes non-cash movements of \$(239) in 2019, \$25 in 2018 and \$1,183 in 2017.

The table below quantifies the beginning and ending balances of restricted cash and restricted cash equivalents in the Consolidated Balance Sheet:

	Year ended December 31		
	2019	2018	2017
Cash and cash equivalents	\$ 5,686	\$ 9,342	\$ 4,813
Restricted cash included in “Prepaid expenses and other current assets”	452	341	405
Restricted cash included in “Deferred charges and other assets”	773	798	725
Total cash, cash equivalents and restricted cash	\$ 6,911	\$ 10,481	\$ 5,943

Note 4

New Accounting Standards

Leases (Topic 842) Effective January 1, 2019, Chevron adopted Accounting Standards Update (ASU) 2016-02 and its related amendments. For additional information on the company’s leases, refer to Note 5 beginning on page 62.

Financial Instruments - Credit Losses (Topic 326) In June 2016, the FASB issued ASU 2016-13, which becomes effective for the company beginning January 1, 2020. The standard requires companies to use forward-looking information to calculate credit loss estimates. The company completed the accounting policy and work process changes necessary to meet the standard’s requirements. The company does not expect the implementation of the standard to have a material effect on its consolidated financial statements.

Note 5

Lease Commitments

Chevron implemented the new lease standard at the effective date of January 1, 2019. The cumulative-effect adjustment to the opening balance of 2019 retained earnings is de minimis. The company elected the option to apply the transition provisions at the adoption date instead of the earliest comparative period presented in the financial statements. By making this election, the company has not applied retrospective reporting for the comparable periods. The company elected the short-term lease exception provided for in the standard and therefore only recognizes right-of-use assets and lease liabilities for leases with a term greater than one year.

The company elected the package of practical expedients to not re-evaluate existing contracts as containing a lease or the lease classification unless it was not previously assessed against the lease criteria. In addition, the company did not reassess initial direct costs for any existing leases. The company applied the land easement practical expedient. The company has elected the practical expedient to not separate non-lease components from lease components for most asset classes except for certain asset classes that have significant non-lease (i.e., service) components. The company assessed some contracts, including those for drill ships, drilling rigs, and storage tanks, not previously assessed against the lease criteria, as operating leases under the new standard, increasing the lease commitments by approximately \$2 billion.

The company enters into leasing arrangements as a lessee; any lessor arrangements are not significant. Leases are classified as operating or finance leases. Both operating and finance leases recognize lease liabilities and associated right-of-use assets. Operating lease arrangements mainly involve drill ships, drilling rigs, time chartered vessels, bareboat charters, terminals,

exploration and production equipment, office buildings and warehouses, and land. Finance leases primarily include facilities and vessels.

Chevron uses various assumptions and judgments in preparing the quantitative data and qualitative information that is material to the company's overall lease population. Where leases are used in joint ventures, the company recognizes 100% of the right-of-use assets and lease liabilities when the company is the sole signatory for the lease (in most cases, where the company is the operator of a joint venture). Lease costs reflect only the costs associated with the operator's working interest share. The lease term includes the committed lease term identified in the contract, taking into account renewal and termination options that management is reasonably certain to exercise. The company uses its incremental borrowing rate as a proxy for the discount rate based on the term of the lease unless the implicit rate is available.

Details of the right-of-use assets and lease liabilities for operating and finance leases, including the balance sheet presentation, are as follows:

	At December 31, 2019	
	Operating Leases	Finance Leases
Deferred charges and other assets	\$ 4,074	\$ —
Properties, plant and equipment, net	—	329
Right-of-use assets^{1, 2}	\$ 4,074	\$ 329
Accrued Liabilities	\$ 1,277	\$ —
Short-term Debt	—	18
Current lease liabilities	1,277	18
Deferred credits and other noncurrent obligations	2,608	—
Long-term Debt	—	282
Noncurrent lease liabilities	2,608	282
Total lease liabilities	\$ 3,885	\$ 300
Weighted-average remaining lease term (in years)	5.2	16.0
Weighted-average discount rate	3.2%	4.7%

¹ Capitalized leased assets of \$818 are primarily from the Upstream segment, with accumulated amortization of \$617 at December 31, 2018.

² Includes non-cash additions of \$1,201 and \$184 right-of-use assets obtained in exchange for new and modified lease liabilities in 2019 for operating and finance leases, respectively.

Total lease costs consist of both amounts recognized in the Consolidated Statement of Income during the period and amounts capitalized as part of the cost of another asset. Total lease costs incurred for operating and finance leases were as follows:

	Year Ended December 31, 2019
Operating lease costs ^{1, 2}	\$ 2,621
Finance lease costs	66
Total lease costs	\$ 2,687

¹ Net rental expense of \$816 and \$721 for 2018 and 2017, respectively.

² Includes variable and short-term lease costs.

Cash paid for amounts included in the measurement of lease liabilities was as follows:

	Year Ended December 31, 2019
Operating cash flows from operating leases	\$ 1,574
Investing cash flows from operating leases	1,047
Operating cash flows from finance leases	13
Financing cash flows from finance leases	24

At December 31, 2019, the estimated future undiscounted cash flows for operating and finance leases were as follows:

		At December 31, 2019	
		Operating Leases	Finance Leases
Year	2020	\$ 1,374	\$ 35
	2021	1,083	33
	2022	546	31
	2023	336	31
	2024	216	30
	Thereafter	696	251
	Total	\$ 4,251	\$ 411
Less: Amounts representing interest		366	111
Total lease liabilities		\$ 3,885	\$ 300

Additionally, the company has \$790 in future undiscounted cash flows for operating leases not yet commenced. These leases are primarily for a drill ship, a facility, a bareboat charter, and a drilling rig. For those leasing arrangements where the underlying asset is not yet constructed, the lessor is primarily involved in the design and construction of the asset.

At December 31, 2018, the estimated future minimum lease payments (net of noncancelable sublease rentals) under operating and capital leases, which at inception had a noncancelable term of more than one year, were as follows:

		At December 31, 2018	
		Operating Leases	Capital Leases *
Year	2019	\$ 540	\$ 30
	2020	492	22
	2021	378	17
	2022	242	16
	2023	166	16
	Thereafter	341	132
	Total	\$ 2,159	\$ 233
Less: Amounts representing interest and executory costs			(88)
Net present values			145
Less: Capital lease obligations included in short-term debt			(18)
Long-term capital lease obligations			\$ 127

* Excluded from the table is an executed but not-yet-commenced capital lease with payments of \$14, \$15, \$22, \$21, \$21 and \$219 for 2019, 2020, 2021, 2022, 2023 and thereafter, respectively.

Note 6

Summarized Financial Data – Chevron U.S.A. Inc.

Chevron U.S.A. Inc. (CUSA) is a major subsidiary of Chevron Corporation. CUSA and its subsidiaries manage and operate most of Chevron's U.S. businesses. Assets include those related to the exploration and production of crude oil, natural gas and natural gas liquids and those associated with the refining, marketing, supply and distribution of products derived from petroleum, excluding most of the regulated pipeline operations of Chevron. CUSA also holds the company's investment in the Chevron Phillips Chemical Company LLC joint venture, which is accounted for using the equity method. The summarized financial information for CUSA and its consolidated subsidiaries is as follows:

	Year ended December 31		
	2019	2018	2017
Sales and other operating revenues	\$ 109,314	\$ 125,076	\$ 104,054
Total costs and other deductions	116,365	121,351	103,904
Net income (loss) attributable to CUSA	(5,061)	4,334	4,842

At December 31

	2019	2018
Current assets	\$ 13,059	\$ 12,819
Other assets	50,796	55,814
Current liabilities	18,291	16,376
Other liabilities	12,565	12,906
Total CUSA net equity	\$ 32,999	\$ 39,351
Memo: Total debt	\$ 3,222	\$ 3,049

Note 7

Fair Value Measurements

The tables on the next page show the fair value hierarchy for assets and liabilities measured at fair value on a recurring and nonrecurring basis at December 31, 2019, and December 31, 2018.

Marketable Securities The company calculates fair value for its marketable securities based on quoted market prices for identical assets. The fair values reflect the cash that would have been received if the instruments were sold at December 31, 2019.

Derivatives The company records its derivative instruments – other than any commodity derivative contracts that are designated as normal purchase and normal sale – on the Consolidated Balance Sheet at fair value, with the offsetting amount to the Consolidated Statement of Income. Derivatives classified as Level 1 include futures, swaps and options contracts traded in active markets such as the New York Mercantile Exchange. Derivatives classified as Level 2 include swaps, options and forward contracts principally with financial institutions and other oil and gas companies, the fair values of which are obtained from third-party broker quotes, industry pricing services and exchanges. The company obtains multiple sources of pricing information for the Level 2 instruments. Since this pricing information is generated from observable market data, it has historically been very consistent. The company does not materially adjust this information.

Properties, Plant and Equipment The company reported impairments for certain upstream properties during 2019 primarily due to capital allocation decisions and a lower long-term commodity price outlook. The company did not have any individually material impairments in 2018.

Investments and Advances The company reported impairments for certain upstream equity companies during 2019 primarily due to capital allocation decisions and a lower long-term commodity price outlook. The company did not have any individually material impairments of investments and advances in 2018.

Assets and Liabilities Measured at Fair Value on a Recurring Basis

	At December 31, 2019				At December 31, 2018			
	Total	Level 1	Level 2	Level 3	Total	Level 1	Level 2	Level 3
Marketable securities	\$ 63	\$ 63	\$ —	\$ —	\$ 53	\$ 53	\$ —	\$ —
Derivatives	11	1	10	—	283	185	98	—
Total assets at fair value	\$ 74	\$ 64	\$ 10	\$ —	\$ 336	\$ 238	\$ 98	\$ —
Derivatives	74	26	48	—	12	—	12	—
Total liabilities at fair value	\$ 74	\$ 26	\$ 48	\$ —	\$ 12	\$ —	\$ 12	\$ —

Assets and Liabilities Measured at Fair Value on a Nonrecurring Basis

	At December 31					At December 31				
	Total	Level 1	Level 2	Level 3	Before-Tax Loss Year 2019	Total	Level 1	Level 2	Level 3	Before-Tax Loss Year 2018
Properties, plant and equipment, net (held and used)	\$ 2,177	\$ —	\$ —	\$ 2,177	\$ 2,095	\$ 102	\$ —	\$ 62	\$ 40	\$ 97
Properties, plant and equipment, net (held for sale)	1,412	—	1,412	—	8,702	1,694	—	1,273	421	638
Investments and advances	52	—	30	22	594	81	—	20	61	69
Total nonrecurring assets at fair value	\$ 3,641	\$ —	\$ 1,442	\$ 2,199	\$ 11,391	\$ 1,877	\$ —	\$ 1,355	\$ 522	\$ 804

Assets and Liabilities Not Required to Be Measured at Fair Value The company holds cash equivalents and time deposits in U.S. and non-U.S. portfolios. The instruments classified as cash equivalents are primarily bank time deposits with maturities of 90 days or less and money market funds. “Cash and cash equivalents” had carrying/fair values of \$5,686 and \$9,342 at

December 31, 2019, and December 31, 2018, respectively. The instruments held in “Time deposits” are bank time deposits with maturities greater than 90 days and had carrying/fair values of zero and \$950 at December 31, 2019, and December 31, 2018, respectively. The fair values of cash, cash equivalents and bank time deposits are classified as Level 1 and reflect the cash that would have been received if the instruments were settled at December 31, 2019.

“Cash and cash equivalents” do not include investments with a carrying/fair value of \$1,225 and \$1,139 at December 31, 2019, and December 31, 2018, respectively. At December 31, 2019, these investments are classified as Level 1 and include restricted funds related to certain upstream decommissioning activities, refundable deposits held in escrow related to pending asset sales, tax payments and a financing program, which are reported in “Deferred charges and other assets” on the Consolidated Balance Sheet. Long-term debt, excluding finance lease liabilities, of \$13,659 and \$18,706 at December 31, 2019, and December 31, 2018, respectively, had estimated fair values of \$14,326 and \$18,729, respectively. Long-term debt primarily includes corporate issued bonds. The fair value of corporate bonds is \$13,460 and classified as Level 1. The fair value of other long-term debt is \$866 and classified as Level 2.

The carrying values of short-term financial assets and liabilities on the Consolidated Balance Sheet approximate their fair values. Fair value remeasurements of other financial instruments at December 31, 2019 and 2018, were not material.

Note 8

Financial and Derivative Instruments

Derivative Commodity Instruments The company’s derivative commodity instruments principally include crude oil, natural gas and refined product futures, swaps, options, and forward contracts. None of the company’s derivative instruments is designated as a hedging instrument, although certain of the company’s affiliates make such designation. The company’s derivatives are not material to the company’s financial position, results of operations or liquidity. The company believes it has no material market or credit risks to its operations, financial position or liquidity as a result of its commodity derivative activities.

The company uses derivative commodity instruments traded on the New York Mercantile Exchange and on electronic platforms of the Inter-Continental Exchange and Chicago Mercantile Exchange. In addition, the company enters into swap contracts and option contracts principally with major financial institutions and other oil and gas companies in the “over-the-counter” markets, which are governed by International Swaps and Derivatives Association agreements and other master netting arrangements. Depending on the nature of the derivative transactions, bilateral collateral arrangements may also be required.

Derivative instruments measured at fair value at December 31, 2019, December 31, 2018, and December 31, 2017, and their classification on the Consolidated Balance Sheet and Consolidated Statement of Income are below:

Consolidated Balance Sheet: Fair Value of Derivatives Not Designated as Hedging Instruments

Type of Contract	Balance Sheet Classification	At December 31	
		2019	2018
Commodity	Accounts and notes receivable, net	\$ 11	\$ 279
Commodity	Long-term receivables, net	—	4
Total assets at fair value		\$ 11	\$ 283
Commodity	Accounts payable	\$ 74	\$ 12
Commodity	Deferred credits and other noncurrent obligations	—	—
Total liabilities at fair value		\$ 74	\$ 12

Consolidated Statement of Income: The Effect of Derivatives Not Designated as Hedging Instruments

Type of Derivative Contract	Statement of Income Classification	Gain/(Loss) Year ended December 31		
		2019	2018	2017
Commodity	Sales and other operating revenues	\$ (291)	\$ 135	\$ (105)
Commodity	Purchased crude oil and products	(17)	(33)	(9)
Commodity	Other income	(2)	3	(2)
		\$ (310)	\$ 105	\$ (116)

The table below represents gross and net derivative assets and liabilities subject to netting agreements on the Consolidated Balance Sheet at December 31, 2019 and December 31, 2018.

Consolidated Balance Sheet: The Effect of Netting Derivative Assets and Liabilities

At December 31, 2019	Gross Amounts Recognized		Gross Amounts Offset		Net Amounts Presented		Gross Amounts Not Offset		Net Amounts	
Derivative Assets	\$	656	\$	645	\$	11	\$	—	\$	11
Derivative Liabilities	\$	719	\$	645	\$	74	\$	—	\$	74
At December 31, 2018										
Derivative Assets	\$	3,685	\$	3,402	\$	283	\$	—	\$	283
Derivative Liabilities	\$	3,414	\$	3,402	\$	12	\$	—	\$	12

Derivative assets and liabilities are classified on the Consolidated Balance Sheet as accounts and notes receivable, long-term receivables, accounts payable, and deferred credits and other noncurrent obligations. Amounts not offset on the Consolidated Balance Sheet represent positions that do not meet all the conditions for “a right of offset.”

Concentrations of Credit Risk The company’s financial instruments that are exposed to concentrations of credit risk consist primarily of its cash equivalents, time deposits, marketable securities, derivative financial instruments and trade receivables. The company’s short-term investments are placed with a wide array of financial institutions with high credit ratings. Company investment policies limit the company’s exposure both to credit risk and to concentrations of credit risk. Similar policies on diversification and creditworthiness are applied to the company’s counterparties in derivative instruments.

The trade receivable balances, reflecting the company’s diversified sources of revenue, are dispersed among the company’s broad customer base worldwide. As a result, the company believes concentrations of credit risk are limited. The company routinely assesses the financial strength of its customers. When the financial strength of a customer is not considered sufficient, alternative risk mitigation measures may be deployed, including requiring pre-payments, letters of credit or other acceptable collateral instruments to support sales to customers.

Note 9

Assets Held for Sale

At December 31, 2019, the company classified \$3,411 of net properties, plant and equipment as “Assets held for sale” on the Consolidated Balance Sheet. These assets are associated with upstream operations that are anticipated to be sold in the next 12 months. The revenues and earnings contributions of these assets in 2019 were not material.

Note 10

Equity

Retained earnings at December 31, 2019 and 2018, included \$25,319 and \$22,362, respectively, for the company’s share of undistributed earnings of equity affiliates.

At December 31, 2019, about 72 million shares of Chevron’s common stock remained available for issuance from the 260 million shares that were reserved for issuance under the Chevron Long-Term Incentive Plan. In addition, 688,303 shares remain available for issuance from the 1,600,000 shares of the company’s common stock that were reserved for awards under the Chevron Corporation Non-Employee Directors’ Equity Compensation and Deferral Plan.

Note 11

Earnings Per Share

Basic earnings per share (EPS) is based upon “Net Income (Loss) Attributable to Chevron Corporation” (“earnings”) and includes the effects of deferrals of salary and other compensation awards that are invested in Chevron stock units by certain officers and employees of the company. Diluted EPS includes the effects of these items as well as the dilutive effects of outstanding stock options awarded under the company’s stock option programs (refer to Note 20, “Stock Options and Other Share-Based Compensation,” beginning on page 80). The table on the following page sets forth the computation of basic and diluted EPS:

	Year ended December 31		
	2019	2018	2017
Basic EPS Calculation			
Earnings available to common stockholders - Basic ¹	\$ 2,924	\$ 14,824	\$ 9,195
Weighted-average number of common shares outstanding ²	1,882	1,897	1,882
Add: Deferred awards held as stock units	—	1	1
Total weighted-average number of common shares outstanding	1,882	1,898	1,883
Earnings per share of common stock - Basic	\$ 1.55	\$ 7.81	\$ 4.88
Diluted EPS Calculation			
Earnings available to common stockholders - Diluted ¹	\$ 2,924	\$ 14,824	\$ 9,195
Weighted-average number of common shares outstanding ²	1,882	1,897	1,882
Add: Deferred awards held as stock units	—	1	1
Add: Dilutive effect of employee stock-based awards	13	16	15
Total weighted-average number of common shares outstanding	1,895	1,914	1,898
Earnings per share of common stock - Diluted	\$ 1.54	\$ 7.74	\$ 4.85

¹ There was no effect of dividend equivalents paid on stock units or dilutive impact of employee stock-based awards on earnings.

² Millions of shares.

Note 12

Operating Segments and Geographic Data

Although each subsidiary of Chevron is responsible for its own affairs, Chevron Corporation manages its investments in these subsidiaries and their affiliates. The investments are grouped into two business segments, Upstream and Downstream, representing the company's "reportable segments" and "operating segments." Upstream operations consist primarily of exploring for, developing and producing crude oil and natural gas; liquefaction, transportation and regasification associated with liquefied natural gas (LNG); transporting crude oil by major international oil export pipelines; processing, transporting, storage and marketing of natural gas; and a gas-to-liquids plant. Downstream operations consist primarily of refining of crude oil into petroleum products; marketing of crude oil and refined products; transporting of crude oil and refined products by pipeline, marine vessel, motor equipment and rail car; and manufacturing and marketing of commodity petrochemicals, plastics for industrial uses, and fuel and lubricant additives. All Other activities of the company include worldwide cash management and debt financing activities, corporate administrative functions, insurance operations, real estate activities, and technology activities.

The company's segments are managed by "segment managers" who report to the "chief operating decision maker" (CODM). The segments represent components of the company that engage in activities (a) from which revenues are earned and expenses are incurred; (b) whose operating results are regularly reviewed by the CODM, which makes decisions about resources to be allocated to the segments and assesses their performance; and (c) for which discrete financial information is available.

The company's primary country of operation is the United States of America, its country of domicile. Other components of the company's operations are reported as "International" (outside the United States).

Segment Earnings The company evaluates the performance of its operating segments on an after-tax basis, without considering the effects of debt financing interest expense or investment interest income, both of which are managed by the company on a worldwide basis. Corporate administrative costs are not allocated to the operating segments. However, operating segments are billed for the direct use of corporate services. Nonbillable costs remain at the corporate level in “All Other.” Earnings by major operating area are presented in the following table:

	Year ended December 31		
	2019	2018	2017
Upstream			
United States	\$ (5,094)	\$ 3,278	\$ 3,640
International	7,670	10,038	4,510
Total Upstream	2,576	13,316	8,150
Downstream			
United States	1,559	2,103	2,938
International	922	1,695	2,276
Total Downstream	2,481	3,798	5,214
Total Segment Earnings	5,057	17,114	13,364
All Other			
Interest expense	(761)	(713)	(264)
Interest income	181	137	60
Other	(1,553)	(1,714)	(3,965)
Net Income (Loss) Attributable to Chevron Corporation	\$ 2,924	\$ 14,824	\$ 9,195

Segment Assets Segment assets do not include intercompany investments or receivables. Assets at year-end 2019 and 2018 are as follows:

	At December 31	
	2019	2018
Upstream		
United States	\$ 35,926	\$ 42,594
International	145,648	153,861
Goodwill	4,463	4,518
Total Upstream	186,037	200,973
Downstream		
United States	25,197	23,866
International	16,955	15,622
Total Downstream	42,152	39,488
Total Segment Assets	228,189	240,461
All Other		
United States	3,475	5,100
International	5,764	8,302
Total All Other	9,239	13,402
Total Assets – United States	64,598	71,560
Total Assets – International	168,367	177,785
Goodwill	4,463	4,518
Total Assets	\$ 237,428	\$ 253,863

Segment Sales and Other Operating Revenues Operating segment sales and other operating revenues, including internal transfers, for the years 2019, 2018 and 2017, are presented in the table on the next page. Products are transferred between operating segments at internal product values that approximate market prices.

Revenues for the upstream segment are derived primarily from the production and sale of crude oil and natural gas, as well as the sale of third-party production of natural gas. Revenues for the downstream segment are derived from the refining and marketing of petroleum products such as gasoline, jet fuel, gas oils, lubricants, residual fuel oils and other products derived from crude oil. This segment also generates revenues from the manufacture and sale of fuel and lubricant additives and the transportation and trading of refined products and crude oil. “All Other” activities include revenues from insurance operations, real estate activities and technology companies.

	Year ended December 31 ¹		
	2019	2018	2017
Upstream			
United States	\$ 23,358	\$ 22,891	\$ 13,242
International	35,628	37,822	28,680
Subtotal	58,986	60,713	41,922
Intersegment Elimination — United States	(14,944)	(13,965)	(9,341)
Intersegment Elimination — International	(12,335)	(13,679)	(11,471)
Total Upstream	31,707	33,069	21,110
Downstream			
United States	55,271	59,376	53,140
International	57,654	70,095	61,395
Subtotal	112,925	129,471	114,535
Intersegment Elimination — United States	(3,924)	(2,742)	(14)
Intersegment Elimination — International	(1,089)	(1,132)	(1,166)
Total Downstream	107,912	125,597	113,355
All Other			
United States	1,064	1,022	1,022
International	20	22	26
Subtotal	1,084	1,044	1,048
Intersegment Elimination — United States	(818)	(786)	(814)
Intersegment Elimination — International	(20)	(22)	(25)
Total All Other	246	236	209
Sales and Other Operating Revenues			
United States	79,693	83,289	67,404
International	93,302	107,939	90,101
Subtotal	172,995	191,228	157,505
Intersegment Elimination — United States	(19,686)	(17,493)	(10,169)
Intersegment Elimination — International	(13,444)	(14,833)	(12,662)
Total Sales and Other Operating Revenues	\$ 139,865	\$ 158,902	\$ 134,674

¹ Other than the United States, no other country accounted for 10 percent or more of the company's Sales and Other Operating Revenues.

Segment Income Taxes Segment income tax expense for the years 2019, 2018 and 2017 is as follows:

	Year ended December 31		
	2019	2018	2017
Upstream			
United States	\$ (1,550)	\$ 811	\$ (3,538)
International	3,492	4,687	2,249
Total Upstream	1,942	5,498	(1,289)
Downstream			
United States	392	534	(419)
International	170	328	650
Total Downstream	562	862	231
All Other	187	(645)	1,010
Total Income Tax Expense (Benefit)	\$ 2,691	\$ 5,715	\$ (48)

Other Segment Information Additional information for the segmentation of major equity affiliates is contained in Note 13, on page 71. Information related to properties, plant and equipment by segment is contained in Note 16, on page 77.

Note 13 Investments and Advances

Equity in earnings, together with investments in and advances to companies accounted for using the equity method and other investments accounted for at or below cost, is shown in the following table. For certain equity affiliates, Chevron pays its share of some income taxes directly. For such affiliates, the equity in earnings does not include these taxes, which are reported on the Consolidated Statement of Income as “Income tax expense.”

	Investments and Advances		Equity in Earnings		
	At December 31		Year ended December 31		
	2019	2018	2019	2018	2017
Upstream					
Tengizchevroil	\$ 20,214	\$ 16,017	\$ 3,067	\$ 3,614	\$ 2,581
Petropiar	1,396	1,361	80	317	175
Petroboscan	1,139	1,315	(11)	357	154
Caspian Pipeline Consortium	883	1,022	155	170	155
Angola LNG Limited	2,423	2,496	(26)	172	27
Other	881	1,541	(478)	19	104
Total Upstream	26,936	23,752	2,787	4,649	3,196
Downstream					
Chevron Phillips Chemical Company LLC	6,241	6,218	880	1,034	723
GS Caltex Corporation	3,796	3,924	13	373	290
Other	1,443	1,383	288	273	230
Total Downstream	11,480	11,525	1,181	1,680	1,243
All Other					
Other	(14)	(16)	—	(2)	(1)
Total equity method	\$ 38,402	\$ 35,261	\$ 3,968	\$ 6,327	\$ 4,438
Other non-equity method investments	286	285			
Total investments and advances	\$ 38,688	\$ 35,546			
Total United States	\$ 7,203	\$ 7,500	\$ 641	\$ 1,033	\$ 788
Total International	\$ 31,485	\$ 28,046	\$ 3,327	\$ 5,294	\$ 3,650

Descriptions of major affiliates, including significant differences between the company’s carrying value of its investments and its underlying equity in the net assets of the affiliates, are as follows:

Tengizchevroil Chevron has a 50 percent equity ownership interest in Tengizchevroil (TCO), which operates the Tengiz and Korolev crude oil fields in Kazakhstan. At December 31, 2019, the company’s carrying value of its investment in TCO was about \$110 higher than the amount of underlying equity in TCO’s net assets. This difference results from Chevron acquiring a portion of its interest in TCO at a value greater than the underlying book value for that portion of TCO’s net assets. Included in the investment is a loan to TCO to fund the development of the Future Growth and Wellhead Pressure Management Project with a balance of \$3,350.

Petropiar Chevron has a 30 percent interest in Petropiar, a joint stock company which operates the heavy oil Huyapari Field and upgrading project in Venezuela’s Orinoco Belt. At December 31, 2019, the company’s carrying value of its investment in Petropiar was approximately \$130 less than the amount of underlying equity in Petropiar’s net assets. The difference represents the excess of Chevron’s underlying equity in Petropiar’s net assets over the net book value of the assets contributed to the venture.

Petroboscan Chevron has a 39.2 percent interest in Petroboscan, a joint stock company which operates the Boscan Field in Venezuela. At December 31, 2019, the company’s carrying value of its investment in Petroboscan was approximately \$90 higher than the amount of underlying equity in Petroboscan’s net assets. The difference reflects the excess of the net book value of the assets contributed by Chevron over its underlying equity in Petroboscan’s net assets. The company also has an outstanding long-term loan to Petroboscan of \$566 at year-end 2019.

Caspian Pipeline Consortium Chevron has a 15 percent interest in the Caspian Pipeline Consortium, a variable interest entity, which provides the critical export route for crude oil from both TCO and Karachaganak. The company has investments and advances totaling \$883, which includes long-term loans of \$199 at year-end 2019. The loans were provided to fund 30 percent of the initial pipeline construction. The company is not the primary beneficiary of the consortium because it does not direct activities of the consortium and only receives its proportionate share of the financial returns.

Angola LNG Limited Chevron has a 36.4 percent interest in Angola LNG Limited, which processes and liquefies natural gas produced in Angola for delivery to international markets.

Chevron Phillips Chemical Company LLC Chevron owns 50 percent of Chevron Phillips Chemical Company LLC. The other half is owned by Phillips 66.

GS Caltex Corporation Chevron owns 50 percent of GS Caltex Corporation, a joint venture with GS Energy. The joint venture imports, refines and markets petroleum products, petrochemicals and lubricants, predominantly in South Korea.

Other Information “Sales and other operating revenues” on the Consolidated Statement of Income includes \$8,006, \$10,378 and \$8,165 with affiliated companies for 2019, 2018 and 2017, respectively. “Purchased crude oil and products” includes \$5,694, \$6,598 and \$4,800 with affiliated companies for 2019, 2018 and 2017, respectively.

“Accounts and notes receivable” on the Consolidated Balance Sheet includes \$810 and \$884 due from affiliated companies at December 31, 2019 and 2018, respectively. “Accounts payable” includes \$506 and \$631 due to affiliated companies at December 31, 2019 and 2018, respectively.

The following table provides summarized financial information on a 100 percent basis for all equity affiliates as well as Chevron’s total share, which includes Chevron’s net loans to affiliates of \$4,331, \$3,402 and \$3,853 at December 31, 2019, 2018 and 2017, respectively.

Year ended December 31	Affiliates			Chevron Share		
	2019	2018	2017	2019	2018	2017
Total revenues	\$ 66,473	\$ 84,469	\$ 70,744	\$ 32,628	\$ 40,679	\$ 33,460
Income before income tax expense	13,197	16,693	13,487	5,954	6,755	5,712
Net income attributable to affiliates	9,809	13,321	10,751	4,366	6,384	4,468
At December 31						
Current assets	\$ 30,791	\$ 32,657	\$ 33,883	\$ 12,998	\$ 12,813	\$ 13,568
Noncurrent assets	97,177	87,614	82,261	41,531	36,369	32,643
Current liabilities	26,032	26,006	26,873	10,610	9,843	10,201
Noncurrent liabilities	21,593	20,000	21,447	5,068	4,446	4,224
Total affiliates’ net equity	\$ 80,343	\$ 74,265	\$ 67,824	\$ 38,851	\$ 34,893	\$ 31,786

Note 14

Litigation

MTBE Chevron and many other companies in the petroleum industry have used methyl tertiary butyl ether (MTBE) as a gasoline additive. Chevron is a party to six pending lawsuits and claims, the majority of which involve numerous other petroleum marketers and refiners. Resolution of these lawsuits and claims may ultimately require the company to correct or ameliorate the alleged effects on the environment of prior release of MTBE by the company or other parties. Additional lawsuits and claims related to the use of MTBE, including personal-injury claims, may be filed in the future. The company’s ultimate exposure related to pending lawsuits and claims is not determinable. The company no longer uses MTBE in the manufacture of gasoline in the United States.

Ecuador

Background Chevron is a defendant in civil litigation proceedings stemming from a lawsuit filed in the Superior Court for the province of Nueva Loja in Lago Agrio, Ecuador in May 2003 by plaintiffs who claim to be representatives of residents of an area where an oil production consortium formerly operated. The lawsuit alleged harm to the environment from the consortium’s oil production activities and sought monetary damages and other relief. Texaco Petroleum Company (Texpet), a subsidiary of Texaco Inc., was a minority member of the consortium from 1967 until 1992, with state-owned Petroecuador as the majority partner. Since 1992, Petroecuador has been the sole owner and operator in the concession area. After the termination of the consortium and following an independent third-party environmental audit of the concession area, in 1995, Texpet entered into a formal agreement with the Republic of Ecuador and Petroecuador under which Texpet agreed to remediate specific sites assigned by the government in proportion to Texpet’s minority share of the consortium. Pursuant to that agreement, Texpet conducted a three-year remediation program. After certifying that the assigned sites were properly remediated, in 1998, Ecuador granted Texpet and all related corporate entities a full release from any and all environmental liability arising from the consortium operations.

Chevron defended itself in the Lago Agrio lawsuit on the grounds that the claims lacked both legal and factual merit. As to matters of law, Chevron asserted that the court lacked jurisdiction, the plaintiffs sought to improperly apply a 1999 law

retroactively, the claims were time-barred, and the lawsuit was barred by releases signed by the Republic of Ecuador, Petroecuador, and the pertinent provincial and municipal governments. With regard to the facts, the company asserted that the evidence confirmed Texpet's remediation was properly conducted and that any remaining environmental impacts reflected Petroecuador's failure to timely fulfill its own legal obligation to remediate the concession area and Petroecuador's conduct after it assumed control over operations. In February 2011, the provincial court rendered a judgment against Chevron, awarding approximately \$8,600 in damages, plus approximately \$900 for the plaintiffs' representatives, and approximately \$8,600 in additional punitive damages unless the company issued a public apology within 15 days, which Chevron did not do. In January 2012 an appellate panel affirmed the judgment and ordered that Chevron pay an additional 0.10% in attorneys' fees. In November 2013, Ecuador's National Court of Justice ratified the judgment but nullified the \$8,600 punitive damage assessment, resulting in a judgment of \$9,500. In December 2013, Chevron appealed the decision to Ecuador's highest Constitutional Court, which rejected Chevron's appeal in July 2018. No further appeals are available in Ecuador.

The Lago Agrio plaintiffs' lawyers have sought to enforce the judgment in Ecuador and other jurisdictions. In May 2012, they filed a recognition and enforcement action against Chevron Corporation, Chevron Canada Limited and another subsidiary (which was later dismissed as a party) in the Superior Court of Justice in Ontario, Canada. In September 2015, the Supreme Court of Canada ruled that the Ontario Superior Court of Justice had jurisdiction over Chevron Corporation and Chevron Canada Limited for purposes of the action. In January 2017, the Superior Court ruled that Chevron Canada Limited and Chevron Corporation are separate legal entities with separate rights and obligations, and dismissed the action against Chevron Canada Limited. In May 2018, the Court of Appeal for Ontario upheld the dismissal of Chevron Canada Limited. The Supreme Court of Canada denied the plaintiffs' application for leave to appeal in April 2019, rendering the dismissal of Chevron Canada Limited final. In July 2019, by consent of the parties, the Ontario Superior Court dismissed the recognition and enforcement action against Chevron Corporation with prejudice and with costs in favor of Chevron. In June 2012, the plaintiffs filed a recognition and enforcement action against Chevron Corporation in the Superior Court of Justice in Brasilia, Brazil. In May 2015, the Brazilian public prosecutor issued an opinion recommending that the court reject the plaintiffs' action on grounds including that the Lago Agrio judgment was procured through fraud and corruption and violated Brazilian and international public order. In November 2017, the Superior Court of Justice dismissed the plaintiffs' recognition and enforcement action on jurisdictional grounds, and in June 2018 the dismissal became final in Brazil. In October 2012, the provincial court in Ecuador issued an ex parte embargo order purporting to order the seizure of assets belonging to separate Chevron subsidiaries in Ecuador, Argentina and Colombia. In November 2012, at the request of the plaintiffs, a court in Argentina issued a freeze order against Chevron Argentina S.R.L. and another Chevron subsidiary. In January 2013, an appellate court upheld the freeze order, but in June 2013, the Supreme Court of Argentina revoked the freeze order in its entirety. In December 2013, Chevron was served with the plaintiffs' complaint seeking recognition and enforcement of the judgment in Argentina. In April 2016, the public prosecutor in Argentina issued an opinion recommending rejection of the plaintiffs' request to recognize the Ecuadorian judgment in Argentina. In November 2017, the National Court, First Instance, dismissed the complaint on jurisdictional grounds and the Federal Civil Court of Appeals affirmed the dismissal in July 2018. The plaintiffs' appeal to the Supreme Court of Argentina remains pending. Chevron continues to believe the Ecuadorian judgment is illegitimate and unenforceable because it is the product of fraud and corruption, and contrary to the law and all legitimate scientific evidence. Chevron cannot predict the timing or outcome of any pending or threatened enforcement action, but expects to continue a vigorous defense against any imposition of liability and to contest and defend any and all enforcement actions.

In February 2011, Chevron filed a civil lawsuit in the U.S. District Court for the Southern District of New York against the Lago Agrio plaintiffs and several of their lawyers and supporters, asserting violations of the Racketeer Influenced and Corrupt Organizations (RICO) Act and state law. In March 2014, the District Court entered a judgment in favor of Chevron, finding that the Ecuadorian judgment had been procured through fraud, bribery and corruption, and prohibiting the RICO defendants from seeking to enforce the Lago Agrio judgment in the United States or profiting from their illegal acts. In August 2016, the U.S. Court of Appeals for the Second Circuit issued a unanimous decision affirming the New York judgment in full. In June 2017, the U.S. Supreme Court denied the RICO defendants' petition for a Writ of Certiorari, rendering the New York judgment in favor of Chevron final.

Chevron and Texpet filed an arbitration claim in September 2009 against the Republic of Ecuador before an arbitral tribunal administered by the Permanent Court of Arbitration in The Hague, under the Rules of the United Nations Commission on International Trade Law. The claim alleged violations of Ecuador's obligations under the United States-Ecuador Bilateral Investment Treaty (BIT) and breaches of the settlement and release agreements between Ecuador and Texpet. In January 2012, the Tribunal issued its First Interim Measures Award requiring Ecuador to take all measures at its disposal to suspend or cause to be suspended the enforcement or recognition within and outside of Ecuador of any judgment against Chevron in the Lago Agrio case pending further order of the Tribunal. In February 2012, the Tribunal issued a Second

Interim Award mandating that Ecuador take all measures necessary to suspend or cause to be suspended enforcement and recognition proceedings within and outside of Ecuador. Also in February 2012, the Tribunal issued a Third Interim Award confirming its jurisdiction to hear Chevron and Texpet's claims. In February 2013, the Tribunal issued its Fourth Interim Award in which it declared that Ecuador had violated the First and Second Interim Awards. The Tribunal divided the merits phase of the arbitration into three phases. In September 2013, after the conclusion of Phase One, the Tribunal issued its First Partial Award, finding that the settlement agreements between Ecuador and Texpet applied to both Texpet and Chevron and released them from public environmental claims arising from the consortium's operations, but did not preclude individual claims for personal harm. In August 2018, the Tribunal issued its Phase Two award, again in favor of Chevron and Texpet. The Tribunal unanimously held that the Lago Agrio judgment was procured through fraud, bribery and corruption and was based on public claims that Ecuador had settled and released. According to the Tribunal, the Ecuadorian judgment "violates international public policy" and "should not be recognized or enforced by the courts of other States." The Tribunal found that: (i) Ecuador breached its obligations under the settlement agreements releasing Texpet and its affiliates from public environmental claims; (ii) Ecuador committed a denial of justice under international law and violated the U.S.-Ecuador BIT due to the fraud and corruption in the Lago Agrio litigation; and (iii) Texpet satisfied its environmental remediation obligations through the remediation program that Ecuador supervised and approved. The Tribunal ordered Ecuador to: (a) take immediate steps to remove the status of enforceability from the Ecuadorian judgment; (b) take measures to "wipe out all the consequences" of Ecuador's "internationally wrongful acts in regard to the Ecuadorian judgment;" and (c) compensate Chevron for any injuries resulting from the Ecuadorian judgment. The final Phase Three of the arbitration, at which damages for Chevron's injuries will be determined, was set for hearing in March 2021. Ecuador filed in the District Court of The Hague a request to set aside the Tribunal's Interim Awards and its First Partial Award, and in January 2016 that court denied Ecuador's request. In July 2017, the Appeals Court of the Netherlands denied Ecuador's appeal, and in April 2019, the Supreme Court of the Netherlands upheld the decision of the Appeals Court and finally rejected Ecuador's challenges to the Tribunal's Interim Awards and its First Partial Award. In December 2018, Ecuador filed in the District Court of The Hague a request to set aside the Tribunal's Phase Two Award.

Management's Assessment The ultimate outcome of the foregoing matters, including any financial effect on Chevron, remains uncertain. Management does not believe an estimate of a reasonably possible loss (or a range of loss) can be made in this case. Due to the defects associated with the Ecuadorian judgment, management does not believe the judgment has any utility in calculating a reasonably possible loss (or a range of loss). Moreover, the highly uncertain legal environment surrounding the case provides no basis for management to estimate a reasonably possible loss (or a range of loss).

Note 15

Taxes

Income Taxes

	Year ended December 31		
	2019	2018	2017
Income tax expense (benefit)			
U.S. federal			
Current	\$ (73)	\$ (181)	\$ (382)
Deferred	(1,074)	738	(2,561)
State and local			
Current	153	183	(97)
Deferred	(172)	(16)	66
Total United States	(1,166)	724	(2,974)
International			
Current	4,577	4,662	3,634
Deferred	(720)	329	(708)
Total International	3,857	4,991	2,926
Total income tax expense (benefit)	\$ 2,691	\$ 5,715	\$ (48)

The reconciliation between the U.S. statutory federal income tax rate and the company's effective income tax rate is detailed in the table on the following page:

	2019	2018	2017
Income (loss) before income taxes			
United States	\$ (5,483)	\$ 4,730	\$ (441)
International	11,019	15,845	9,662
Total income (loss) before income taxes	5,536	20,575	9,221
Theoretical tax (at U.S. statutory rate of 21% - 2019 & 2018, 35% - 2017)	1,163	4,321	3,227
Effect of U.S. tax reform	3	(26)	(2,020)
Equity affiliate accounting effect	(687)	(1,526)	(1,373)
Effect of income taxes from international operations*	2,196	3,132	(130)
State and local taxes on income, net of U.S. federal income tax benefit	(18)	162	39
Prior year tax adjustments, claims and settlements	192	(51)	(39)
Tax credits	(18)	(163)	(199)
Other U.S.*	(140)	(134)	447
Total income tax expense (benefit)	\$ 2,691	\$ 5,715	\$ (48)
Effective income tax rate	48.6%	27.8%	(0.5)%

* Includes one-time tax costs (benefits) associated with changes in uncertain tax positions and valuation allowances.

The 2019 decrease in income tax expense of \$3,024 is a result of the year-over-year decrease in total income before income tax expense, which is primarily due to the impairment and project write-off charges in 2019. The company's effective tax rate changed from 28 percent in 2018 to 49 percent in 2019. The change in effective tax rate is a consequence of mix effect resulting from the absolute level of earnings or losses and whether they arose in higher or lower tax rate jurisdictions, including a tax charge related to cash repatriation and the impact of asset sales and corporate rate reductions.

The company records its deferred taxes on a tax-jurisdiction basis. The reported deferred tax balances are composed of the following:

	At December 31	
	2019	2018
Deferred tax liabilities		
Properties, plant and equipment	\$ 17,251	\$ 20,159
Investments and other*	5,372	4,943
Total deferred tax liabilities	22,623	25,102
Deferred tax assets		
Foreign tax credits	(9,840)	(10,536)
Asset retirement obligations/environmental reserves	(4,329)	(5,328)
Employee benefits	(3,454)	(2,787)
Deferred credits	(1,083)	(1,373)
Tax loss carryforwards	(5,262)	(4,948)
Other accrued liabilities	(441)	(595)
Inventory	(662)	(505)
Operating leases *	(1,211)	—
Miscellaneous	(2,796)	(3,481)
Total deferred tax assets	(29,078)	(29,553)
Deferred tax assets valuation allowance	15,965	15,973
Total deferred taxes, net	\$ 9,510	\$ 11,522

* Beginning in 2019, the deferred taxes that are the consequence of ASU 2016-02 are included in the "Investments and other" and "Operating lease" balances above. Refer to Note 5, "Lease Commitments" beginning on page 62.

Deferred tax liabilities at the end of 2019 decreased by approximately \$2,500 from year-end 2018. The decrease was primarily related to property, plant and equipment temporary differences due to upstream asset impairments. Deferred tax assets were essentially unchanged from year-end 2018.

The overall valuation allowance relates to deferred tax assets for U.S. foreign tax credit carryforwards, tax loss carryforwards and temporary differences. The valuation allowance reduces the deferred tax assets to amounts that are, in management's assessment, more likely than not to be realized. At the end of 2019, the company had tax loss carryforwards of approximately \$13,419 and tax credit carryforwards of approximately \$1,058, primarily related to various international tax jurisdictions. Whereas some of these tax loss carryforwards do not have an expiration date, others expire at various times from 2020 through 2034. U.S. foreign tax credit carryforwards of \$9,840 will expire between 2020 and 2029.

At December 31, 2019 and 2018, deferred taxes were classified on the Consolidated Balance Sheet as follows:

	At December 31	
	2019	2018
Deferred charges and other assets	\$ (4,178)	\$ (4,399)
Noncurrent deferred income taxes	13,688	15,921
Total deferred income taxes, net	\$ 9,510	\$ 11,522

Income taxes are not accrued for unremitted earnings of international operations that have been or are intended to be reinvested indefinitely. The indefinite reinvestment assertion continues to apply for the purpose of determining deferred tax liabilities for U.S. state and foreign withholding tax purposes.

U.S. state and foreign withholding taxes are not accrued for unremitted earnings of international operations that have been or are intended to be reinvested indefinitely. Undistributed earnings of international consolidated subsidiaries and affiliates for which no deferred income tax provision has been made for possible future remittances totaled approximately \$52,500 at December 31, 2019. This amount represents earnings reinvested as part of the company's ongoing international business. It is not practicable to estimate the amount of state and foreign taxes that might be payable on the possible remittance of earnings that are intended to be reinvested indefinitely. The company does not anticipate incurring significant additional taxes on remittances of earnings that are not indefinitely reinvested.

Uncertain Income Tax Positions The company recognizes a tax benefit in the financial statements for an uncertain tax position only if management's assessment is that the position is "more likely than not" (i.e., a likelihood greater than 50 percent) to be allowed by the tax jurisdiction based solely on the technical merits of the position. The term "tax position" in the accounting standards for income taxes refers to a position in a previously filed tax return or a position expected to be taken in a future tax return that is reflected in measuring current or deferred income tax assets and liabilities for interim or annual periods.

The following table indicates the changes to the company's unrecognized tax benefits for the years ended December 31, 2019, 2018 and 2017. The term "unrecognized tax benefits" in the accounting standards for income taxes refers to the differences between a tax position taken or expected to be taken in a tax return and the benefit measured and recognized in the financial statements. Interest and penalties are not included.

	2019		2018		2017	
Balance at January 1	\$	5,070	\$	4,828	\$	3,031
Foreign currency effects		1		(6)		43
Additions based on tax positions taken in current year		94		239		1,853
Additions for tax positions taken in prior years		313		153		1,166
Reductions for tax positions taken in prior years		(194)		(131)		(90)
Settlements with taxing authorities in current year		(78)		(13)		(1,173)
Reductions as a result of a lapse of the applicable statute of limitations		(219)		—		(2)
Balance at December 31	\$	4,987	\$	5,070	\$	4,828

Approximately 81 percent of the \$4,987 of unrecognized tax benefits at December 31, 2019, would have an impact on the effective tax rate if subsequently recognized. Certain of these unrecognized tax benefits relate to tax carryforwards that may require a full valuation allowance at the time of any such recognition.

Tax positions for Chevron and its subsidiaries and affiliates are subject to income tax audits by many tax jurisdictions throughout the world. For the company's major tax jurisdictions, examinations of tax returns for certain prior tax years had not been completed as of December 31, 2019. For these jurisdictions, the latest years for which income tax examinations had been finalized were as follows: United States – 2013, Nigeria – 2000, Australia – 2009 and Kazakhstan – 2012.

The company engages in ongoing discussions with tax authorities regarding the resolution of tax matters in the various jurisdictions. Both the outcome of these tax matters and the timing of resolution and/or closure of the tax audits are highly uncertain. However, it is reasonably possible that developments on tax matters in certain tax jurisdictions may result in significant increases or decreases in the company's total unrecognized tax benefits within the next 12 months. Given the number of years that still remain subject to examination and the number of matters being examined in the various tax jurisdictions, the company is unable to estimate the range of possible adjustments to the balance of unrecognized tax benefits.

On the Consolidated Statement of Income, the company reports interest and penalties related to liabilities for uncertain tax positions as "Income tax expense." As of December 31, 2019, accruals of \$30 for anticipated interest and penalty obligations were included on the Consolidated Balance Sheet, compared with accruals of \$33 as of year-end 2018. Income tax expense (benefit) associated with interest and penalties was \$(3), \$8 and \$(161) in 2019, 2018 and 2017, respectively.

Taxes Other Than on Income

	Year ended December 31		
	2019	2018	2017
United States			
Excise and similar taxes on products and merchandise*	\$ 4,990	\$ 4,830	\$ 4,398
Consumer excise taxes collected on behalf of third parties*	(4,990)	(4,830)	—
Import duties and other levies	2	15	11
Property and other miscellaneous taxes	1,785	1,577	1,824
Payroll taxes	254	246	241
Taxes on production	355	325	206
Total United States	2,396	2,163	6,680
International			
Excise and similar taxes on products and merchandise*	2,801	3,031	2,791
Consumer excise taxes collected on behalf of third parties*	(2,801)	(3,031)	—
Import duties and other levies	35	37	45
Property and other miscellaneous taxes	1,435	2,370	2,563
Payroll taxes	125	132	137
Taxes on production	145	165	115
Total International	1,740	2,704	5,651
Total taxes other than on income	\$ 4,136	\$ 4,867	\$ 12,331

* Beginning in 2018, these taxes are netted in "Taxes other than on income" in accordance with ASU 2014-09. Refer to Note 24, "Revenue" beginning on page 89.

Note 16 Properties, Plant and Equipment¹

	At December 31						Year ended December 31					
	Gross Investment at Cost			Net Investment			Additions at Cost ²			Depreciation Expense ³		
	2019	2018	2017	2019	2018	2017	2019	2018	2017	2019	2018	2017
Upstream												
United States	\$ 82,117	\$ 88,155	\$ 84,602	\$ 31,082	\$ 39,526	\$ 38,722	\$ 7,751	\$ 6,434	\$ 4,995	\$ 15,222	\$ 5,328	\$ 5,527
International	206,292	215,329	224,211	102,639	113,603	123,191	3,664	4,865	7,934	12,618	12,726	12,096
Total Upstream	288,409	303,484	308,813	133,721	153,129	161,913	11,415	11,299	12,929	27,840	18,054	17,623
Downstream												
United States	25,968	24,685	23,598	11,398	10,838	10,346	1,452	1,259	907	869	751	753
International	7,480	7,237	7,094	3,114	3,023	3,074	355	278	306	256	282	282
Total Downstream	33,448	31,922	30,692	14,512	13,861	13,420	1,807	1,537	1,213	1,125	1,033	1,035
All Other												
United States	4,719	4,667	4,798	2,236	2,186	2,341	324	224	218	243	320	677
International	146	171	182	25	31	38	9	6	4	10	12	14
Total All Other	4,865	4,838	4,980	2,261	2,217	2,379	333	230	222	253	332	691
Total United States	112,804	117,507	112,998	44,716	52,550	51,409	9,527	7,917	6,120	16,334	6,399	6,957
Total International	213,918	222,737	231,487	105,778	116,657	126,303	4,028	5,149	8,244	12,884	13,020	12,392
Total	\$ 326,722	\$ 340,244	\$ 344,485	\$ 150,494	\$ 169,207	\$ 177,712	\$ 13,555	\$ 13,066	\$ 14,364	\$ 29,218	\$ 19,419	\$ 19,349

¹ Other than the United States and Australia, no other country accounted for 10 percent or more of the company's net properties, plant and equipment (PP&E) in 2019. Australia had PP&E of \$51,359, \$53,768 and \$55,514 in 2019, 2018 and 2017, respectively.

² Net of dry hole expense related to prior years' expenditures of \$124, \$343 and \$42 in 2019, 2018 and 2017, respectively.

³ Depreciation expense includes accretion expense of \$628, \$654 and \$668 in 2019, 2018 and 2017, respectively, and impairments of \$10,797, \$735 and \$1,021 in 2019, 2018 and 2017, respectively.

Note 17

Short-Term Debt

	At December 31	
	2019	2018
Commercial paper ¹	\$ 4,654	\$ 7,503
Notes payable to banks and others with originating terms of one year or less	228	28
Current maturities of long-term debt ²	5,054	4,999
Current maturities of long-term finance leases	18	18
Redeemable long-term obligations		
Long-term debt	3,078	3,078
Subtotal	13,032	15,626
Reclassified to long-term debt	(9,750)	(9,900)
Total short-term debt	\$ 3,282	\$ 5,726

¹ Weighted-average interest rates at December 31, 2019 and 2018, were 1.69 percent and 2.43 percent, respectively.

² Net of unamortized discounts and issuance costs: \$0 in 2019 and \$1 in 2018.

Redeemable long-term obligations consist primarily of tax-exempt variable-rate put bonds that are included as current liabilities because they become redeemable at the option of the bondholders during the year following the balance sheet date.

The company may periodically enter into interest rate swaps on a portion of its short-term debt. At December 31, 2019, the company had no interest rate swaps on short-term debt.

At December 31, 2019, the company had \$9,750 in 364-day committed credit facilities with various major banks that enable the refinancing of short-term obligations on a long-term basis. The credit facilities allow the company to convert any amounts outstanding into a term loan for a period of up to one year. This supports commercial paper borrowing and can also be used for general corporate purposes. The company's practice has been to continually replace expiring commitments with new commitments on substantially the same terms, maintaining levels management believes appropriate. Any borrowings under the facility would be unsecured indebtedness at interest rates based on the London Interbank Offered Rate or an average of base lending rates published by specified banks and on terms reflecting the company's strong credit rating. No borrowings were outstanding under this facility at December 31, 2019.

The company classified \$9,750 and \$9,900 of short-term debt as long-term at December 31, 2019 and 2018, respectively. Settlement of these obligations is not expected to require the use of working capital within one year, and the company has both the intent and the ability, as evidenced by committed credit facilities, to refinance them on a long-term basis.

Note 18

Long-Term Debt

Total long-term debt including finance lease liabilities at December 31, 2019, was \$23,691. The company's long-term debt outstanding at year-end 2019 and 2018 was as follows:

	At December 31	
	2019	2018
	Principal	Principal
3.191% notes due 2023	\$ 2,250	\$ 2,250
2.954% notes due 2026	2,250	2,250
2.355% notes due 2022	2,000	2,000
1.961% notes due 2020	1,750	1,750
2.100% notes due 2021	1,350	1,350
2.419% notes due 2020	1,250	1,250
2.427% notes due 2020	1,000	1,000
2.895% notes due 2024	1,000	1,000
2.566% notes due 2023	750	750
3.326% notes due 2025	750	750
2.498% notes due 2022	700	700
2.411% notes due 2022	700	700
Floating rate notes due 2021 (2.599%) ¹	650	650
Floating rate notes due 2022 (2.412%) ¹	650	650
1.991% notes due 2020	600	600
Floating rate notes due 2020 (2.116%) ²	400	400
3.400% loan ³	218	218
8.625% debentures due 2032	147	147
8.625% debentures due 2031	108	108
8.000% debentures due 2032	75	75
9.750% debentures due 2020	54	54
8.875% debentures due 2021	40	40
Medium-term notes, maturing from 2021 to 2038 (6.431%) ¹	38	38
4.950% notes due 2019	—	1,500
1.561% notes due 2019	—	1,350
Floating rate notes due 2019	—	850
2.193% notes due 2019	—	750
1.686% notes due 2019	—	550
Total including debt due within one year	18,730	23,730
Debt due within one year	(5,054)	(5,000)
Reclassified from short-term debt	9,750	9,900
Unamortized discounts and debt issuance costs	(17)	(24)
Finance lease liabilities ⁴	282	127
Total long-term debt	\$ 23,691	\$ 28,733

¹ Weighted-average interest rate at December 31, 2019.

² Interest rate at December 31, 2019.

³ Maturity date is conditional upon the occurrence of certain events. 2022 is the earliest period in which the loan may become payable.

⁴ For details on finance lease liabilities, see Note 5 beginning on page 62.

Chevron has an automatic shelf registration statement that expires in May 2021. This registration statement is for an unspecified amount of nonconvertible debt securities issued or guaranteed by the company.

Long-term debt excluding finance lease liabilities with a principal balance of \$18,730 matures as follows: 2020 – \$5,054; 2021 – \$2,054; 2022 – \$4,268; 2023 – \$3,003; 2024 – \$1,000; and after 2024 – \$3,351.

See Note 7, beginning on page 65, for information concerning the fair value of the company's long-term debt.

Note 19

Accounting for Suspended Exploratory Wells

The company continues to capitalize exploratory well costs after the completion of drilling when the well has found a sufficient quantity of reserves to justify completion as a producing well, and the business unit is making sufficient progress assessing the reserves and the economic and operating viability of the project. If either condition is not met or if the company obtains information that raises substantial doubt about the economic or operational viability of the project, the exploratory well would be assumed to be impaired, and its costs, net of any salvage value, would be charged to expense.

The following table indicates the changes to the company's suspended exploratory well costs for the three years ended December 31, 2019:

	2019	2018	2017
Beginning balance at January 1	\$ 3,563	\$ 3,702	\$ 3,540
Additions to capitalized exploratory well costs pending the determination of proved reserves	244	207	323
Reclassifications to wells, facilities and equipment based on the determination of proved reserves	(500)	(13)	(113)
Capitalized exploratory well costs charged to expense	(125)	(333)	(39)
Other reductions*	(141)	—	(9)
Ending balance at December 31	\$ 3,041	\$ 3,563	\$ 3,702

* Represents property sales.

The following table provides an aging of capitalized well costs and the number of projects for which exploratory well costs have been capitalized for a period greater than one year since the completion of drilling.

	At December 31		
	2019	2018	2017
Exploratory well costs capitalized for a period of one year or less	\$ 214	\$ 202	\$ 307
Exploratory well costs capitalized for a period greater than one year	2,827	3,361	3,395
Balance at December 31	\$ 3,041	\$ 3,563	\$ 3,702
Number of projects with exploratory well costs that have been capitalized for a period greater than one year*	22	30	32

* Certain projects have multiple wells or fields or both.

Of the \$2,827 of exploratory well costs capitalized for more than one year at December 31, 2019, \$1,867 is related to 12 projects that had drilling activities underway or firmly planned for the near future. The \$960 balance is related to 10 projects in areas requiring a major capital expenditure before production could begin and for which additional drilling efforts were not underway or firmly planned for the near future. Additional drilling was not deemed necessary because the presence of hydrocarbons had already been established, and other activities were in process to enable a future decision on project development.

The projects for the \$960 referenced above had the following activities associated with assessing the reserves and the projects' economic viability: (a) \$256 (four projects) – undergoing front-end engineering and design with final investment decision expected within four years; (b) \$704 (six projects) – development alternatives under review. While progress was being made on all 22 projects, the decision on the recognition of proved reserves under SEC rules in some cases may not occur for several years because of the complexity, scale and negotiations associated with the projects. More than half of these decisions are expected to occur in the next five years.

The \$2,827 of suspended well costs capitalized for a period greater than one year as of December 31, 2019, represents 123 exploratory wells in 22 projects. The tables below contain the aging of these costs on a well and project basis:

<i>Aging based on drilling completion date of individual wells:</i>	Amount	Number of wells
1998-2008	\$ 244	27
2009-2013	1,166	56
2014-2018	1,417	40
Total	\$ 2,827	123

<i>Aging based on drilling completion date of last suspended well in project:</i>	Amount	Number of projects
2003-2011	\$ 318	4
2012-2015	1,653	11
2016-2019	856	7
Total	\$ 2,827	22

Note 20

Stock Options and Other Share-Based Compensation

Compensation expense for stock options for 2019, 2018 and 2017 was \$81 (\$64 after tax), \$105 (\$83 after tax) and \$137 (\$89 after tax), respectively. In addition, compensation expense for stock appreciation rights, restricted stock, performance shares and restricted stock units was \$313 (\$266 after tax), \$60 (\$47 after tax) and \$231 (\$150 after tax) for 2019, 2018 and 2017, respectively. No significant stock-based compensation cost was capitalized at December 31, 2019, or December 31, 2018.

Cash received in payment for option exercises under all share-based payment arrangements for 2019, 2018 and 2017 was \$1,090, \$1,159 and \$1,100, respectively. Actual tax benefits realized for the tax deductions from option exercises were \$43, \$43 and \$48 for 2019, 2018 and 2017, respectively.

Cash paid to settle performance shares, restricted stock units and stock appreciation rights was \$119, \$157 and \$187 for 2019, 2018 and 2017, respectively.

Awards under the Chevron Long-Term Incentive Plan (LTIP) may take the form of, but are not limited to, stock options, restricted stock, restricted stock units, stock appreciation rights, performance shares and nonstock grants. From April 2004 through May 2023, no more than 260 million shares may be issued under the LTIP. For awards issued on or after May 29, 2013, no more than 50 million of those shares may be in a form other than a stock option, stock appreciation right or award requiring full payment for shares by the award recipient. For the major types of awards issued before January 1, 2017, the contractual terms vary between three years for the performance shares and restricted stock units, and 10 years for the stock options and stock appreciation rights. For awards issued after January 1, 2017, contractual terms vary between three years for the performance shares and special restricted stock units, five years for standard restricted stock units and 10 years for the stock options and stock appreciation rights. Forfeitures for performance shares, restricted stock units, and stock appreciation rights are recognized as they occur. Forfeitures for stock options are estimated using historical forfeiture data dating back to 1990.

The fair market values of stock options and stock appreciation rights granted in 2019, 2018 and 2017 were measured on the date of grant using the Black-Scholes option-pricing model, with the following weighted-average assumptions:

	Year ended December 31		
	2019	2018	2017
Expected term in years ¹	6.6	6.5	6.3
Volatility ²	20.5 %	21.2 %	21.7 %
Risk-free interest rate based on zero coupon U.S. treasury note	2.6 %	2.6 %	2.2 %
Dividend yield	3.8 %	3.8 %	4.2 %
Weighted-average fair value per option granted	\$ 15.82	\$ 18.18	\$ 15.31

¹ Expected term is based on historical exercise and post-vesting cancellation data.

² Volatility rate is based on historical stock prices over an appropriate period, generally equal to the expected term.

A summary of option activity during 2019 is presented below:

	Shares (Thousands)	Weighted-Average Exercise Price	Averaged Remaining Contractual Term (Years)	Aggregate Intrinsic Value
Outstanding at January 1, 2019	94,724	\$ 99.92		
Granted	5,771	\$ 113.04		
Exercised	(13,190)	\$ 83.36		
Forfeited	(664)	\$ 111.57		
Outstanding at December 31, 2019	86,641	\$ 103.22	4.69	\$ 1,518
Exercisable at December 31, 2019	77,671	\$ 101.63	4.25	\$ 1,474

The total intrinsic value (i.e., the difference between the exercise price and the market price) of options exercised during 2019, 2018 and 2017 was \$516, \$506 and \$407, respectively. During this period, the company continued its practice of issuing treasury shares upon exercise of these awards.

As of December 31, 2019, there was \$55 of total unrecognized before-tax compensation cost related to nonvested share-based compensation arrangements granted under the plan. That cost is expected to be recognized over a weighted-average period of 1.8 years.

At January 1, 2019, the number of LTIP performance shares outstanding was equivalent to 3,669,730 shares. During 2019, 1,813,188 performance shares were granted, 684,620 shares vested with cash proceeds distributed to recipients and 411,514 shares were forfeited. At December 31, 2019, performance shares outstanding were 4,386,784. The fair value of the liability recorded for these instruments was \$370, and was measured using the Monte Carlo simulation method.

At January 1, 2019, the number of restricted stock units outstanding was equivalent to 1,737,479 shares. During 2019, 1,054,556 restricted stock units were granted, 244,744 units vested with cash proceeds distributed to recipients and 120,332 units were forfeited. At December 31, 2019, restricted stock units outstanding were 2,426,959. The fair value of the liability recorded for the vested portion of these instruments was \$192, valued at the stock price as of December 31, 2019. In addition, outstanding stock appreciation rights that were granted under LTIP totaled approximately 4.0 million equivalent shares as of December 31, 2019. The fair value of the liability recorded for the vested portion of these instruments was \$82.

Note 21

Employee Benefit Plans

The company has defined benefit pension plans for many employees. The company typically prefunds defined benefit plans as required by local regulations or in certain situations where prefunding provides economic advantages. In the United States, all qualified plans are subject to the Employee Retirement Income Security Act (ERISA) minimum funding standard. The company does not typically fund U.S. nonqualified pension plans that are not subject to funding requirements under laws and regulations because contributions to these pension plans may be less economic and investment returns may be less attractive than the company's other investment alternatives.

The company also sponsors other postretirement benefit (OPEB) plans that provide medical and dental benefits, as well as life insurance for some active and qualifying retired employees. The plans are unfunded, and the company and retirees share the costs. For the company's main U.S. medical plan, the increase to the pre-Medicare company contribution for retiree medical coverage is limited to no more than 4 percent each year. Certain life insurance benefits are paid by the company.

The company recognizes the overfunded or underfunded status of each of its defined benefit pension and OPEB plans as an asset or liability on the Consolidated Balance Sheet.

The funded status of the company's pension and OPEB plans for 2019 and 2018 follows:

	Pension Benefits				Other Benefits	
	2019		2018		2019	2018
	U.S.	Int'l.	U.S.	Int'l.		
Change in Benefit Obligation						
Benefit obligation at January 1	\$ 11,726	\$ 4,820	\$ 13,580	\$ 5,540	\$ 2,430	\$ 2,788
Service cost	406	139	480	141	36	42
Interest cost	397	199	370	206	96	94
Plan participants' contributions	—	4	—	4	72	71
Plan amendments	—	29	—	23	—	2
Actuarial (gain) loss	2,922	673	(1,051)	(239)	125	(272)
Foreign currency exchange rate changes	—	121	—	(227)	2	(9)
Benefits paid	(1,035)	(302)	(1,653)	(432)	(240)	(237)
Divestitures/Acquisitions	49	—	—	(196)	(1)	(49)
Curtailment	—	(3)	—	—	—	—
Benefit obligation at December 31	14,465	5,680	11,726	4,820	2,520	2,430
Change in Plan Assets						
Fair value of plan assets at January 1	8,532	4,142	9,948	4,766	—	—
Actual return on plan assets	1,548	566	(566)	(9)	—	—
Foreign currency exchange rate changes	—	115	—	(221)	—	—
Employer contributions	1,096	266	803	232	168	166
Plan participants' contributions	—	4	—	4	72	71
Benefits paid	(1,035)	(302)	(1,653)	(432)	(240)	(237)
Divestitures/Acquisitions	36	—	—	(198)	—	—
Fair value of plan assets at December 31	10,177	4,791	8,532	4,142	—	—
Funded status at December 31	\$ (4,288)	\$ (889)	\$ (3,194)	\$ (678)	\$ (2,520)	\$ (2,430)

Amounts recognized on the Consolidated Balance Sheet for the company's pension and OPEB plans at December 31, 2019 and 2018, include:

	Pension Benefits				Other Benefits	
	2019		2018		2019	2018
	U.S.	Int'l.	U.S.	Int'l.		
Deferred charges and other assets	\$ 23	\$ 413	\$ 17	\$ 412	\$ —	\$ —
Accrued liabilities	(239)	(71)	(180)	(66)	(174)	(175)
Noncurrent employee benefit plans	(4,072)	(1,231)	(3,031)	(1,024)	(2,346)	(2,255)
Net amount recognized at December 31	\$ (4,288)	\$ (889)	\$ (3,194)	\$ (678)	\$ (2,520)	\$ (2,430)

Amounts recognized on a before-tax basis in “Accumulated other comprehensive loss” for the company’s pension and OPEB plans were \$6,357 and \$4,448 at the end of 2019 and 2018, respectively. These amounts consisted of:

	Pension Benefits				Other Benefits	
	2019		2018		2019	2018
	U.S.	Int'l.	U.S.	Int'l.		
Net actuarial loss	\$ 5,135	\$ 1,269	\$ 3,694	\$ 955	\$ 74	\$ (56)
Prior service (credit) costs	5	102	7	104	(228)	(256)
Total recognized at December 31	\$ 5,140	\$ 1,371	\$ 3,701	\$ 1,059	\$ (154)	\$ (312)

The accumulated benefit obligations for all U.S. and international pension plans were \$12,781 and \$5,203, respectively, at December 31, 2019, and \$10,514 and \$4,360, respectively, at December 31, 2018.

Information for U.S. and international pension plans with an accumulated benefit obligation in excess of plan assets at December 31, 2019 and 2018, was:

	Pension Benefits			
	2019		2018	
	U.S.	Int'l.	U.S.	Int'l.
Projected benefit obligations	\$ 14,401	\$ 1,554	\$ 11,667	\$ 1,277
Accumulated benefit obligations	12,718	1,268	10,456	1,062
Fair value of plan assets	10,091	278	8,456	198

The components of net periodic benefit cost and amounts recognized in the Consolidated Statement of Comprehensive Income for 2019, 2018 and 2017 are shown in the table below:

	Pension Benefits						Other Benefits		
	2019		2018		2017		2019	2018	2017
	U.S.	Int'l.	U.S.	Int'l.	U.S.	Int'l.			
Net Periodic Benefit Cost									
Service cost	\$ 406	\$ 139	\$ 480	\$ 141	\$ 489	\$ 151	\$ 36	\$ 42	\$ 32
Interest cost	397	199	370	206	366	219	96	94	95
Expected return on plan assets	(565)	(231)	(636)	(253)	(597)	(239)	—	—	—
Amortization of prior service costs (credits)	2	11	2	10	(5)	13	(28)	(28)	(28)
Recognized actuarial losses	239	21	304	29	340	44	(3)	15	(5)
Settlement losses	259	3	411	33	436	2	—	—	—
Curtailment losses (gains)	—	16	—	3	—	—	—	—	—
Total net periodic benefit cost	738	158	931	169	1,029	190	101	123	94
Changes Recognized in Comprehensive Income									
Net actuarial (gain) loss during period	1,939	338	151	12	381	(94)	128	(248)	284
Amortization of actuarial loss	(498)	(24)	(715)	(62)	(776)	(46)	3	(15)	5
Prior service (credits) costs during period	—	29	—	23	—	1	(1)	3	—
Amortization of prior service (costs) credits	(2)	(30)	(2)	(13)	5	(13)	28	28	28
Total changes recognized in other comprehensive income	1,439	313	(566)	(40)	(390)	(152)	158	(232)	317
Recognized in Net Periodic Benefit Cost and Other Comprehensive Income	\$ 2,177	\$ 471	\$ 365	\$ 129	\$ 639	\$ 38	\$ 259	\$ (109)	\$ 411

Net actuarial losses recorded in “Accumulated other comprehensive loss” at December 31, 2019, for the company’s U.S. pension, international pension and OPEB plans are being amortized on a straight-line basis over approximately 10, 12 and 14 years, respectively. These amortization periods represent the estimated average remaining service of employees expected to receive benefits under the plans. These losses are amortized to the extent they exceed 10 percent of the higher of the projected benefit obligation or market-related value of plan assets. The amount subject to amortization is determined on a plan-by-plan basis. During 2020, the company estimates actuarial losses of \$385, \$46 and \$3 will be amortized from “Accumulated other comprehensive loss” for U.S. pension, international pension and OPEB plans, respectively. In addition, the company estimates an additional \$320 will be recognized from “Accumulated other comprehensive loss” during 2020 related to lump-sum settlement costs from the main U.S. pension plans.

The weighted average amortization period for recognizing prior service costs (credits) recorded in “Accumulated other comprehensive loss” at December 31, 2019, was approximately 3 and 6 years for U.S. and international pension plans, respectively, and 8 years for OPEB plans. During 2020, the company estimates prior service (credits) costs of \$2, \$10 and

\$(28) will be amortized from “Accumulated other comprehensive loss” for U.S. pension, international pension and OPEB plans, respectively.

Assumptions The following weighted-average assumptions were used to determine benefit obligations and net periodic benefit costs for years ended December 31:

	Pension Benefits						Other Benefits		
	2019		2018		2017		2019	2018	2017
	U.S.	Int'l.	U.S.	Int'l.	U.S.	Int'l.			
Assumptions used to determine benefit obligations:									
Discount rate	3.1%	3.2%	4.2%	4.4%	3.5%	3.9%	3.2%	4.4%	3.8%
Rate of compensation increase	4.5%	4.0%	4.5%	4.0%	4.5%	4.0%	N/A	N/A	N/A
Assumptions used to determine net periodic benefit cost:									
Discount rate for service cost	4.4%	4.4%	3.7%	3.9%	4.2%	4.3%	4.6%	3.9%	4.6%
Discount rate for interest cost	3.7%	4.4%	3.0%	3.9%	3.0%	4.3%	4.2%	3.5%	3.8%
Expected return on plan assets	6.8%	5.6%	6.8%	5.5%	6.8%	5.5%	N/A	N/A	N/A
Rate of compensation increase	4.5%	4.0%	4.5%	4.0%	4.5%	4.5%	N/A	N/A	N/A

Expected Return on Plan Assets The company’s estimated long-term rates of return on pension assets are driven primarily by actual historical asset-class returns, an assessment of expected future performance, advice from external actuarial firms and the incorporation of specific asset-class risk factors. Asset allocations are periodically updated using pension plan asset/liability studies, and the company’s estimated long-term rates of return are consistent with these studies.

For 2019, the company used an expected long-term rate of return of 6.75 percent for U.S. pension plan assets, which account for 68 percent of the company’s pension plan assets. In both 2018 and 2017, the company used a long-term rate of return of 6.75 percent for these plans.

The market-related value of assets of the main U.S. pension plan used in the determination of pension expense was based on the market values in the three months preceding the year-end measurement date. Management considers the three-month time period long enough to minimize the effects of distortions from day-to-day market volatility and still be contemporaneous to the end of the year. For other plans, market value of assets as of year-end is used in calculating the pension expense.

Discount Rate The discount rate assumptions used to determine the U.S. and international pension and OPEB plan obligations and expense reflect the rate at which benefits could be effectively settled, and are equal to the equivalent single rate resulting from yield curve analysis. This analysis considered the projected benefit payments specific to the company’s plans and the yields on high-quality bonds. The projected cash flows were discounted to the valuation date using the yield curve for the main U.S. pension and OPEB plans. The effective discount rates derived from this analysis at the end of 2019 were 3.1 percent for the main U.S. pension plan and 3.1 percent for the main U.S. OPEB plan. The discount rates for these plans at the end of 2018 were 4.2 and 4.3 percent, respectively, while in 2017 they were 3.5 and 3.6 percent for these plans, respectively.

Other Benefit Assumptions Assumed health care cost-trend rates can have a significant effect on the amounts reported for retiree health care costs. For the measurement of accumulated postretirement benefit obligation at December 31, 2019, for the main U.S. OPEB plan, the assumed health care cost-trend rates start with 6.8 percent in 2020 and gradually decline to 4.5 percent for 2025 and beyond. For this measurement at December 31, 2018, the assumed health care cost-trend rates started with 7.2 percent in 2019 and gradually declined to 4.5 percent for 2025 and beyond. A 1-percentage-point change in the assumed health care cost-trend rates would have the following effects on worldwide plans:

	1 Percent Increase		1 Percent Decrease	
Effect on total service and interest cost components	\$	20	\$	(15)
Effect on postretirement benefit obligation	\$	224	\$	(176)

Plan Assets and Investment Strategy

The fair value measurements of the company’s pension plans for 2019 and 2018 are on the following page:

	U.S.					Int'l.				
	Total	Level 1	Level 2	Level 3	NAV	Total	Level 1	Level 2	Level 3	NAV
At December 31, 2018										
Equities										
U.S. ¹	\$ 1,110	\$ 1,110	\$ —	\$ —	\$ —	\$ 520	\$ 520	\$ —	\$ —	\$ —
International	1,631	1,630	1	—	—	521	520	—	1	—
Collective Trusts/Mutual Funds ²	893	21	—	—	872	152	9	—	—	143
Fixed Income										
Government	225	—	225	—	—	254	97	157	—	—
Corporate	1,382	—	1,382	—	—	409	—	389	20	—
Bank Loans	119	—	114	5	—	—	—	—	—	—
Mortgage/Asset Backed	1	—	1	—	—	6	—	6	—	—
Collective Trusts/Mutual Funds ²	877	—	—	—	877	1,521	15	—	—	1,506
Mixed Funds ³	—	—	—	—	—	74	3	71	—	—
Real Estate ⁴	1,065	—	—	—	1,065	378	—	—	56	322
Alternative Investments ⁵	941	—	—	—	941	—	—	—	—	—
Cash and Cash Equivalents	212	208	4	—	—	287	277	2	—	8
Other ⁶	76	(4)	31	44	5	20	—	17	3	—
Total at December 31, 2018	\$ 8,532	\$ 2,965	\$ 1,758	\$ 49	\$ 3,760	\$ 4,142	\$ 1,441	\$ 642	\$ 80	\$ 1,979
At December 31, 2019										
Equities										
U.S. ¹	\$ 1,769	\$ 1,769	\$ —	\$ —	\$ —	\$ 471	\$ 471	\$ —	\$ —	\$ —
International	1,958	1,958	—	—	—	422	421	—	1	—
Collective Trusts/Mutual Funds ²	1,079	52	—	—	1,027	184	6	—	—	178
Fixed Income										
Government	523	—	523	—	—	265	144	121	—	—
Corporate	1,444	—	1,444	—	—	493	—	490	3	—
Bank Loans	120	—	113	7	—	—	—	—	—	—
Mortgage/Asset Backed	1	—	1	—	—	4	—	4	—	—
Collective Trusts/Mutual Funds ²	963	—	—	—	963	2,230	5	—	—	2,225
Mixed Funds ³	—	—	—	—	—	84	7	77	—	—
Real Estate ⁴	1,089	—	—	—	1,089	277	—	—	55	222
Alternative Investments ⁵	924	—	—	—	924	—	—	—	—	—
Cash and Cash Equivalents	235	228	7	—	—	338	334	2	—	2
Other ⁶	72	(5)	29	44	4	23	—	21	2	—
Total at December 31, 2019	\$ 10,177	\$ 4,002	\$ 2,117	\$ 51	\$ 4,007	\$ 4,791	\$ 1,388	\$ 715	\$ 61	\$ 2,627

¹ U.S. equities include investments in the company's common stock in the amount of \$6 at December 31, 2019, and \$9 at December 31, 2018.

² Collective Trusts/Mutual Funds for U.S. plans are entirely index funds; for International plans, they are mostly unit trust and index funds.

³ Mixed funds are composed of funds that invest in both equity and fixed-income instruments in order to diversify and lower risk.

⁴ The year-end valuations of the U.S. real estate assets are based on third-party appraisals that occur at least once a year for each property in the portfolio.

⁵ Alternative investments focus on market-neutral strategies that have a low expected correlation to traditional asset classes.

⁶ The "Other" asset class includes net payables for securities purchased but not yet settled (Level 1); dividends and interest- and tax-related receivables (Level 2); insurance contracts (Level 3); and investments in private-equity limited partnerships (NAV).

The effects of fair value measurements using significant unobservable inputs on changes in Level 3 plan assets are outlined below:

	Equity		Fixed Income			Total
	International	Corporate	Bank Loans	Real Estate	Other	
Total at December 31, 2017	\$ —	\$ 30	\$ 11	\$ 56	\$ 46	\$ 143
Actual Return on Plan Assets:						
Assets held at the reporting date	4	(2)	—	13	—	15
Assets sold during the period	(4)	—	—	—	—	(4)
Purchases, Sales and Settlements	—	(7)	(4)	(13)	—	(24)
Transfers in and/or out of Level 3	1	—	(2)	—	—	(1)
Total at December 31, 2018	\$ 1	\$ 21	\$ 5	\$ 56	\$ 46	\$ 129
Actual Return on Plan Assets:						
Assets held at the reporting date	(1)	1	—	—	(1)	(1)
Assets sold during the period	—	—	—	—	—	—
Purchases, Sales and Settlements	—	(19)	—	(1)	1	(19)
Transfers in and/or out of Level 3	1	—	2	—	—	3
Total at December 31, 2019	\$ 1	\$ 3	\$ 7	\$ 55	\$ 46	\$ 112

The primary investment objectives of the pension plans are to achieve the highest rate of total return within prudent levels of risk and liquidity, to diversify and mitigate potential downside risk associated with the investments, and to provide adequate liquidity for benefit payments and portfolio management.

The company's U.S. and U.K. pension plans comprise 92 percent of the total pension assets. Both the U.S. and U.K. plans have an Investment Committee that regularly meets during the year to review the asset holdings and their returns. To assess the plans' investment performance, long-term asset allocation policy benchmarks have been established.

For the primary U.S. pension plan, the company's Investment Committee has established the following approved asset allocation ranges: Equities 30–60 percent, Fixed Income 20–40 percent, Real Estate 0–15 percent, Alternative Investments 0–15 percent and Cash 0–25 percent. For the U.K. pension plan, the U.K. Board of Trustees has established the following asset allocation guidelines: Equities 10–30 percent, Fixed Income 55–85 percent, Real Estate 5–15 percent, and Cash 0–5 percent. The other significant international pension plans also have established maximum and minimum asset allocation ranges that vary by plan. Actual asset allocation within approved ranges is based on a variety of factors, including market conditions and illiquidity constraints. To mitigate concentration and other risks, assets are invested across multiple asset classes with active investment managers and passive index funds.

The company does not prefund its OPEB obligations.

Cash Contributions and Benefit Payments In 2019, the company contributed \$1,096 and \$266 to its U.S. and international pension plans, respectively. In 2020, the company expects contributions to be approximately \$1,250 to its U.S. plans and \$250 to its international pension plans. Actual contribution amounts are dependent upon investment returns, changes in pension obligations, regulatory environments, tax law changes and other economic factors. Additional funding may ultimately be required if investment returns are insufficient to offset increases in plan obligations.

The company anticipates paying OPEB benefits of approximately \$174 in 2020; \$168 was paid in 2019.

The following benefit payments, which include estimated future service, are expected to be paid by the company in the next 10 years:

	Pension Benefits			Other Benefits
	U.S.	Int'l.		
2020	\$ 1,262	\$ 280	\$	174
2021	\$ 1,176	\$ 602	\$	170
2022	\$ 1,160	\$ 224	\$	165
2023	\$ 1,150	\$ 234	\$	161
2024	\$ 1,134	\$ 255	\$	156
2024-2028	\$ 5,232	\$ 1,434	\$	725

Employee Savings Investment Plan Eligible employees of Chevron and certain of its subsidiaries participate in the Chevron Employee Savings Investment Plan (ESIP). Compensation expense for the ESIP totaled \$284, \$270 and \$316 in 2019, 2018 and 2017, respectively.

Benefit Plan Trusts Prior to its acquisition by Chevron, Texaco established a benefit plan trust for funding obligations under some of its benefit plans. At year-end 2019, the trust contained 14.2 million shares of Chevron treasury stock. The trust will sell the shares or use the dividends from the shares to pay benefits only to the extent that the company does not pay such benefits. The company intends to continue to pay its obligations under the benefit plans. The trustee will vote the shares held in the trust as instructed by the trust's beneficiaries. The shares held in the trust are not considered outstanding for earnings-per-share purposes until distributed or sold by the trust in payment of benefit obligations.

Prior to its acquisition by Chevron, Unocal established various grantor trusts to fund obligations under some of its benefit plans, including the deferred compensation and supplemental retirement plans. At December 31, 2019 and 2018, trust assets of \$35 and \$34, respectively, were invested primarily in interest-earning accounts.

Employee Incentive Plans The Chevron Incentive Plan is an annual cash bonus plan for eligible employees that links awards to corporate, business unit and individual performance in the prior year. Charges to expense for cash bonuses were \$826, \$1,048 and \$936 in 2019, 2018 and 2017, respectively. Chevron also has the LTIP for officers and other regular salaried employees of the company and its subsidiaries who hold positions of significant responsibility. Awards under the LTIP consist of stock options and other share-based compensation that are described in Note 20, beginning on page 80.

Note 22

Other Contingencies and Commitments

Income Taxes The company calculates its income tax expense and liabilities quarterly. These liabilities generally are subject to audit and are not finalized with the individual taxing authorities until several years after the end of the annual period for which income taxes have been calculated. Refer to Note 15, beginning on page 74, for a discussion of the periods for which tax returns have been audited for the company's major tax jurisdictions and a discussion for all tax jurisdictions of the differences between the amount of tax benefits recognized in the financial statements and the amount taken or expected to be taken in a tax return.

Settlement of open tax years, as well as other tax issues in countries where the company conducts its businesses, are not expected to have a material effect on the consolidated financial position or liquidity of the company and, in the opinion of management, adequate provisions have been made for all years under examination or subject to future examination.

Guarantees The company has two guarantees to equity affiliates totaling \$704. Of this amount, \$412 is associated with a financing arrangement with an equity affiliate. Over the approximate 2-year remaining term of this guarantee, the maximum amount will be reduced as payments are made by the affiliate. The remaining amount of \$292 is associated with certain payments under a terminal use agreement entered into by an equity affiliate. Over the approximate 8-year remaining term of this guarantee, the maximum guarantee amount will be reduced as certain fees are paid by the affiliate. There are numerous cross-indemnity agreements with the affiliate and the other partners to permit recovery of amounts paid under the guarantee. Chevron has recorded no liability for either guarantee.

Indemnifications In the acquisition of Unocal, the company assumed certain indemnities relating to contingent environmental liabilities associated with assets that were sold in 1997. The acquirer of those assets shared in certain environmental remediation costs up to a maximum obligation of \$200, which had been reached at December 31, 2009. Under the indemnification agreement, after reaching the \$200 obligation, Chevron is solely responsible until April 2022, when the indemnification expires. The environmental conditions or events that are subject to these indemnities must have arisen prior to the sale of the assets in 1997.

Although the company has provided for known obligations under this indemnity that are probable and reasonably estimable, the amount of additional future costs may be material to results of operations in the period in which they are recognized. The company does not expect these costs will have a material effect on its consolidated financial position or liquidity.

Long-Term Unconditional Purchase Obligations and Commitments, Including Throughput and Take-or-Pay Agreements The company and its subsidiaries have certain contingent liabilities with respect to long-term unconditional purchase obligations and commitments, including throughput and take-or-pay agreements, some of which may relate to suppliers' financing arrangements. The agreements typically provide goods and services, such as pipeline and storage capacity, utilities, and petroleum products, to be used or sold in the ordinary course of the company's business. The aggregate approximate amounts of required payments under these various commitments are: 2020 – \$900; 2021 – \$1,100; 2022 – \$1,100; 2023 – \$1,200; 2024 – \$1,200; 2025 and after – \$7,200. A portion of these commitments may ultimately be shared with project partners. Total payments under the agreements were approximately \$800 in 2019, \$1,400 in 2018 and \$1,300 in 2017.

As part of the implementation of ASU 2016-02, the company assessed some contracts, previously incorporated into the unconditional purchase obligations disclosure, as operating leases in 2019.

Environmental The company is subject to loss contingencies pursuant to laws, regulations, private claims and legal proceedings related to environmental matters that are subject to legal settlements or that in the future may require the company to take action to correct or ameliorate the effects on the environment of prior release of chemicals or petroleum substances, including MTBE, by the company or other parties. Such contingencies may exist for various operating, closed and divested sites, including, but not limited to, federal Superfund sites and analogous sites under state laws, refineries, chemical plants, marketing facilities, crude oil fields, and mining sites.

Although the company has provided for known environmental obligations that are probable and reasonably estimable, it is likely that the company will continue to incur additional liabilities. The amount of additional future costs are not fully determinable due to such factors as the unknown magnitude of possible contamination, the unknown timing and extent of the corrective actions that may be required, the determination of the company's liability in proportion to other responsible parties, and the extent to which such costs are recoverable from third parties. These future costs may be material to results of operations in the period in which they are recognized, but the company does not expect these costs will have a material effect on its consolidated financial position or liquidity.

Chevron's environmental reserve as of December 31, 2019, was \$1,234. Included in this balance was \$266 related to remediation activities at approximately 145 sites for which the company had been identified as a potentially responsible party under the provisions of the federal Superfund law or analogous state laws which provide for joint and several liability for all responsible parties. Any future actions by regulatory agencies to require Chevron to assume other potentially responsible parties' costs at designated hazardous waste sites are not expected to have a material effect on the company's results of operations, consolidated financial position or liquidity.

Of the remaining year-end 2019 environmental reserves balance of \$968, \$667 is related to the company's U.S. downstream operations, \$28 to its international downstream operations, \$272 to upstream operations and \$1 to other businesses. Liabilities at all sites were primarily associated with the company's plans and activities to remediate soil or groundwater contamination or both.

The company manages environmental liabilities under specific sets of regulatory requirements, which in the United States include the Resource Conservation and Recovery Act and various state and local regulations. No single remediation site at year-end 2019 had a recorded liability that was material to the company's results of operations, consolidated financial position or liquidity.

Refer to Note 23 on page 89 for a discussion of the company's asset retirement obligations.

Other Contingencies Governmental and other entities in California and other jurisdictions have filed legal proceedings against fossil fuel producing companies, including Chevron, purporting to seek legal and equitable relief to address alleged impacts of climate change. Further such proceedings are likely to be filed by other parties. The unprecedented legal theories set forth in these proceedings entail the possibility of damages liability and injunctions against the production of all fossil fuels that, while we believe remote, could have a material adverse effect on the company's results of operations and financial condition. Management believes that these proceedings are legally and factually meritless and detract from constructive efforts to address the important policy issues presented by climate change, and will vigorously defend against such proceedings.

Chevron has interests in Venezuelan crude oil production assets operated by independent equity affiliates. During 2019, net oil equivalent production in Venezuela averaged 35,000 barrels per day, 3,000 barrels per day of which was upgraded to synthetic crude. Synthetic crude production in 2019 was impacted by operating conditions, including a shutdown of the Petropiar heavy oil upgrader for part of the year. The operating environment in Venezuela has been deteriorating for some time. In January 2019, the United States government issued sanctions against the Venezuelan national oil company, Petroleos de Venezuela, S.A. (PdVSA), which is the company's partner in the equity affiliates. The company is conducting its business pursuant to general licenses and guidance issued coincident with the sanctions. In late July 2019, the United States government renewed General License 8A with the issuance of General License 8B, subsequently superseded by General License 8C issued on August 5, 2019. The authorization provided to Chevron under General License 8C was extended by General License 8D on October 21, 2019 and General License 8E issued by the United States government on January 17, 2020. General License 8E enables the company to continue to meet its contractual obligations in Venezuela with PdVSA and is effective until April 22, 2020.

At December 31, 2019, the carrying value of the company's investments was approximately \$2,650 and for the year ended December 31, 2019, the company recognized losses of \$54 for its share of net income from the equity affiliates, and for demurrage, foreign exchange losses and other costs incurred in support of the company's operations in Venezuela. Future events could result in the environment in Venezuela becoming more challenged, which could lead to increased business disruption and volatility in the associated financial results. The company continues to evaluate the carrying value of its Venezuelan investments in line with its accounting policies. Future events related to the company's activities in Venezuela may result in significant impacts on the company's results of operation in subsequent periods. Please see Note 13, "Investments and Advances", on page 71 for further information on the company's investments in equity affiliates in Venezuela.

Chevron receives claims from and submits claims to customers; trading partners; joint venture partners; U.S. federal, state and local regulatory bodies; governments; contractors; insurers; suppliers; and individuals. The amounts of these claims, individually and in the aggregate, may be significant and take lengthy periods to resolve, and may result in gains or losses in future periods.

The company and its affiliates also continue to review and analyze their operations and may close, retire, sell, exchange, acquire or restructure assets to achieve operational or strategic benefits and to improve competitiveness and profitability. These activities, individually or together, may result in significant gains or losses in future periods.

Note 23

Asset Retirement Obligations

The company records the fair value of a liability for an asset retirement obligation (ARO) both as an asset and a liability when there is a legal obligation associated with the retirement of a tangible long-lived asset and the liability can be reasonably estimated. The legal obligation to perform the asset retirement activity is unconditional, even though uncertainty may exist about the timing and/or method of settlement that may be beyond the company's control. This uncertainty about the timing and/or method of settlement is factored into the measurement of the liability when sufficient information exists to reasonably estimate fair value. Recognition of the ARO includes: (1) the present value of a liability and offsetting asset, (2) the subsequent accretion of that liability and depreciation of the asset, and (3) the periodic review of the ARO liability estimates and discount rates.

AROs are primarily recorded for the company's crude oil and natural gas producing assets. No significant AROs associated with any legal obligations to retire downstream long-lived assets have been recognized, as indeterminate settlement dates for the asset retirements prevent estimation of the fair value of the associated ARO. The company performs periodic reviews of its downstream long-lived assets for any changes in facts and circumstances that might require recognition of a retirement obligation.

The following table indicates the changes to the company's before-tax asset retirement obligations in 2019, 2018 and 2017:

	2019	2018	2017
Balance at January 1	\$ 14,050	\$ 14,214	\$ 14,243
Liabilities incurred	32	96	684
Liabilities settled	(1,694)	(830)	(1,721)
Accretion expense	628	654	668
Revisions in estimated cash flows	(184)	(84)	340
Balance at December 31	\$ 12,832	\$ 14,050	\$ 14,214

In the table above, the amount associated with "Revisions in estimated cash flows" in 2019 reflects decreased cost estimates to decommission wells, equipment and facilities. The long-term portion of the \$12,832 balance at the end of 2019 was \$11,592.

Note 24

Revenue

Revenue from contracts with customers is presented in "Sales and other operating revenue" along with some activity that is accounted for outside the scope of Accounting Standard Codification (ASC) 606, which is not material to this line, on the Consolidated Statement of Income. Purchases and sales of inventory with the same counterparty that are entered into in contemplation of one another (including buy/sell arrangements) are combined and recorded on a net basis and reported in "purchased crude oil and products" on the Consolidated Statement of Income. Refer to Note 12 beginning on page 68 for additional information on the company's segmentation of revenue.

Receivables related to revenue from contracts with customers are included in "Accounts and notes receivable, net" on the Consolidated Balance Sheet, net of the allowance for doubtful accounts. The net balance of these receivables was \$9,247 and \$10,046 at December 31, 2019 and December 31, 2018, respectively. Other items included in "Accounts and notes receivable, net" represent amounts due from partners for their share of joint venture operating and project costs and amounts due from others, primarily related to derivatives, leases, buy/sell arrangements and product exchanges, which are accounted for outside the scope of ASC 606.

Contract assets and related costs are reflected in "Prepaid expenses and other current assets" and contract liabilities are reflected in "Accrued liabilities" and "Deferred credits and other noncurrent obligations" on the Consolidated Balance Sheet. Amounts for these items are not material to the company's financial position.

Note 25

Other Financial Information

Earnings in 2019 included after-tax gains of approximately \$1,500 relating to the sale of certain properties. Of this amount, approximately \$50 and \$1,450 related to downstream and upstream, respectively. Earnings in 2018 included after-tax gains of approximately \$630 relating to the sale of certain properties, of which approximately \$365 and \$265 related to downstream and upstream assets, respectively. Earnings in 2019 included after-tax charges of approximately \$10,400 for impairments and other asset write-offs related to upstream. Earnings in 2018 included after-tax charges of approximately \$2,000 for impairments and other asset write-offs related to upstream.

Other financial information is as follows:

	Year ended December 31		
	2019	2018	2017
Total financing interest and debt costs	\$ 817	\$ 921	\$ 902
Less: Capitalized interest	19	173	595
Interest and debt expense	\$ 798	\$ 748	\$ 307
Research and development expenses	\$ 500	\$ 453	\$ 433
Excess of replacement cost over the carrying value of inventories (LIFO method)	\$ 4,513	\$ 5,134	\$ 3,937
LIFO profits (losses) on inventory drawdowns included in earnings	\$ (9)	\$ 26	\$ (5)
Foreign currency effects*	\$ (304)	\$ 611	\$ (446)

* Includes \$(28), \$416 and \$(45) in 2019, 2018 and 2017, respectively, for the company's share of equity affiliates' foreign currency effects.

The company has \$4,463 in goodwill on the Consolidated Balance Sheet, all of which is in the upstream segment and primarily related to the 2005 acquisition of Unocal. The company tested this goodwill for impairment during 2019, and no impairment was required.

Note 26

Summarized Financial Data – Chevron Phillips Chemical Company LLC

Chevron has a 50 percent equity ownership interest in Chevron Phillips Chemical Company LLC (CPChem). Refer to Note 13, on page 72, for a discussion of CPChem operations. Summarized financial information for 100 percent of CPChem is presented in the table below:

	Year ended December 31		
	2019	2018	2017
Sales and other operating revenues	\$ 9,333	\$ 11,310	\$ 9,063
Costs and other deductions	7,863	9,812	8,126
Net income attributable to CPChem	1,760	2,069	1,446

	At December 31	
	2019	2018
Current assets	\$ 2,554	\$ 2,820
Other assets	14,314	13,790
Current liabilities	1,247	1,281
Other liabilities	3,174	2,892
Total CPChem net equity	\$ 12,447	\$ 12,437

<i>Millions of dollars, except per-share amounts</i>	2019	2018	2017	2016	2015
Statement of Income Data					
Revenues and Other Income					
Total sales and other operating revenues*	\$ 139,865	\$ 158,902	\$ 134,674	\$ 110,215	\$ 129,925
Income from equity affiliates and other income	6,651	7,437	7,048	4,257	8,552
Total Revenues and Other Income	146,516	166,339	141,722	114,472	138,477
Total Costs and Other Deductions					
	140,980	145,764	132,501	116,632	133,635
Income Before Income Tax Expense (Benefit)	5,536	20,575	9,221	(2,160)	4,842
Income Tax Expense (Benefit)	2,691	5,715	(48)	(1,729)	132
Net Income	2,845	14,860	9,269	(431)	4,710
Less: Net income attributable to noncontrolling interests	(79)	36	74	66	123
Net Income (Loss) Attributable to Chevron Corporation	\$ 2,924	\$ 14,824	\$ 9,195	\$ (497)	\$ 4,587
Per Share of Common Stock					
Net Income (Loss) Attributable to Chevron					
– Basic	\$ 1.55	\$ 7.81	\$ 4.88	\$ (0.27)	\$ 2.46
– Diluted	\$ 1.54	\$ 7.74	\$ 4.85	\$ (0.27)	\$ 2.45
Cash Dividends Per Share	\$ 4.76	\$ 4.48	\$ 4.32	\$ 4.29	\$ 4.28
Balance Sheet Data (at December 31)					
Current assets	\$ 28,329	\$ 34,021	\$ 28,560	\$ 29,619	\$ 34,430
Noncurrent assets	209,099	219,842	225,246	230,459	230,110
Total Assets	237,428	253,863	253,806	260,078	264,540
Short-term debt	3,282	5,726	5,192	10,840	4,927
Other current liabilities	23,248	21,445	22,545	20,945	20,540
Long-term debt	23,691	28,733	33,571	35,286	33,622
Other noncurrent liabilities	41,999	42,317	43,179	46,285	51,565
Total Liabilities	92,220	98,221	104,487	113,356	110,654
Total Chevron Corporation Stockholders' Equity	\$ 144,213	\$ 154,554	\$ 148,124	\$ 145,556	\$ 152,716
Noncontrolling interests	995	1,088	1,195	1,166	1,170
Total Equity	\$ 145,208	\$ 155,642	\$ 149,319	\$ 146,722	\$ 153,886
* Includes excise, value-added and similar taxes:	\$ —	\$ —	\$ 7,189	\$ 6,905	\$ 7,359

In accordance with FASB and SEC disclosure requirements for oil and gas producing activities, this section provides supplemental information on oil and gas exploration and producing activities of the company in seven separate tables. Tables I through IV provide historical cost information pertaining to costs incurred in exploration, property acquisitions and development; capitalized costs; and results of operations. Tables V through VII present information on the company's estimated net proved reserve quantities, standardized measure of estimated discounted future net cash flows related to proved reserves,

Table I - Costs Incurred in Exploration, Property Acquisitions and Development¹

Millions of dollars	Consolidated Companies							Affiliated Companies	
	U.S.	Other Americas	Africa	Asia	Australia/ Oceania	Europe	Total	TCO ⁴	Other
Year Ended December 31, 2019									
Exploration									
Wells	\$ 571	\$ 44	\$ 9	\$ 2	\$ 4	\$ 4	\$ 634	\$ —	\$ —
Geological and geophysical	82	118	21	5	11	1	238	—	—
Other	140	52	35	29	44	6	306	—	8
Total exploration	793	214	65	36	59	11	1,178	—	8
Property acquisitions ²									
Proved	81	34	—	93	—	—	208	—	—
Unproved	68	150	—	17	1	—	236	—	—
Total property acquisitions	149	184	—	110	1	—	444	—	—
Development ³	7,072	1,216	279	1,020	518	199	10,304	5,112	158
Total Costs Incurred⁵	\$ 8,014	\$ 1,614	\$ 344	\$ 1,166	\$ 578	\$ 210	\$ 11,926	\$ 5,112	\$ 166
Year Ended December 31, 2018									
Exploration									
Wells	\$ 508	\$ 74	\$ 25	\$ 55	\$ —	\$ 14	\$ 676	\$ —	\$ —
Geological and geophysical	84	41	4	5	7	1	142	—	—
Other	190	46	35	33	49	23	376	—	—
Total exploration	782	161	64	93	56	38	1,194	—	—
Property acquisitions ²									
Proved	160	—	7	117	—	—	284	—	—
Unproved	52	494	2	27	—	—	575	—	—
Total property acquisitions	212	494	9	144	—	—	859	—	—
Development ³	6,245	856	711	1,095	845	278	10,030	4,963	200
Total Costs Incurred⁵	\$ 7,239	\$ 1,511	\$ 784	\$ 1,332	\$ 901	\$ 316	\$ 12,083	\$ 4,963	\$ 200
Year Ended December 31, 2017									
Exploration									
Wells	\$ 479	\$ 3	\$ 1	\$ 36	\$ —	\$ 15	\$ 534	\$ —	\$ —
Geological and geophysical	93	46	4	3	33	5	184	—	—
Other	157	32	52	60	46	128	475	—	—
Total exploration	729	81	57	99	79	148	1,193	—	—
Property acquisitions ²									
Proved	64	—	—	93	—	—	157	—	—
Unproved	77	—	40	18	1	—	136	—	—
Total property acquisitions	141	—	40	111	1	—	293	—	—
Development ³	4,346	944	1,136	1,324	2,580	121	10,451	3,683	147
Total Costs Incurred⁵	\$ 5,216	\$ 1,025	\$ 1,233	\$ 1,534	\$ 2,660	\$ 269	\$ 11,937	\$ 3,683	\$ 147

¹ Includes costs incurred whether capitalized or expensed. Excludes general support equipment expenditures. Includes capitalized amounts related to asset retirement obligations. See Note 23, "Asset Retirement Obligations," on page 89.

² Does not include properties acquired in nonmonetary transactions.

³ Includes \$246, \$114 and \$84 of costs incurred on major capital projects prior to assignment of proved reserves for consolidated companies in 2019, 2018, and 2017, respectively.

⁴ 2017 and 2018 conformed to 2019 presentation

⁵ Reconciliation of consolidated and affiliated companies total cost incurred to Upstream capital and exploratory (C&E) expenditures - \$ billions:

	2019	2018	2017	
Total cost incurred	\$ 17.2	\$ 17.2	\$ 15.7	
Non-oil and gas activities	0.3	0.6	1.3	(Primarily; LNG and transportation activities.)
ARO reduction/(build)	0.3	(0.1)	(0.6)	
Upstream C&E	\$ 17.8	\$ 17.7	\$ 16.4	Reference page 39 Upstream total

and changes in estimated discounted future net cash flows. The amounts for consolidated companies are organized by geographic areas including the United States, Other Americas, Africa, Asia, Australia/Oceania and Europe. Amounts for affiliated companies include Chevron's equity interests in Tengizchevroil (TCO) in the Republic of Kazakhstan and in other affiliates, principally in Venezuela and Angola. Refer to Note 13, beginning on page 71, for a discussion of the company's major equity affiliates.

Table II - Capitalized Costs Related to Oil and Gas Producing Activities

Millions of dollars	Consolidated Companies							Affiliated Companies	
	U.S.	Other Americas	Africa	Asia	Australia/Oceania	Europe	Total	TCO*	Other
At December 31, 2019									
Unproved properties	\$ 4,620	\$ 2,492	\$ 151	\$ 1,081	\$ 1,986	\$ —	\$ 10,330	\$ 108	\$ —
Proved properties and related producing assets	82,199	24,189	45,756	56,648	22,032	2,082	232,906	10,757	4,311
Support equipment	2,287	311	1,098	2,075	18,610	—	24,381	1,981	—
Deferred exploratory wells	533	147	405	513	1,322	121	3,041	—	—
Other uncompleted projects	5,080	505	1,176	926	1,023	15	8,725	16,503	743
Gross Capitalized Costs	94,719	27,644	48,586	61,243	44,973	2,218	279,383	29,349	5,054
Unproved properties valuation	3,964	1,271	120	842	109	—	6,306	65	—
Proved producing properties – Depreciation and depletion	56,911	12,644	33,613	44,871	6,064	404	154,507	6,018	1,912
Support equipment depreciation	1,635	226	772	1,605	2,272	—	6,510	1,053	—
Accumulated provisions	62,510	14,141	34,505	47,318	8,445	404	167,323	7,136	1,912
Net Capitalized Costs	\$ 32,209	\$ 13,503	\$ 14,081	\$ 13,925	\$ 36,528	\$ 1,814	\$ 112,060	\$ 22,213	\$ 3,142
At December 31, 2018									
Unproved properties	\$ 4,687	\$ 2,463	\$ 201	\$ 1,299	\$ 1,986	\$ —	\$ 10,636	\$ 108	\$ —
Proved properties and related producing assets	75,013	21,796	44,876	57,168	22,047	12,634	233,534	9,892	4,336
Support equipment	2,216	317	1,096	2,149	17,712	124	23,614	1,858	—
Deferred exploratory wells	782	160	405	632	1,323	261	3,563	—	—
Other uncompleted projects	4,730	3,704	1,744	1,292	1,462	300	13,232	12,311	605
Gross Capitalized Costs	87,428	28,440	48,322	62,540	44,530	13,319	284,579	24,169	4,941
Unproved properties valuation	820	694	164	623	107	—	2,408	61	—
Proved producing properties – Depreciation and depletion	45,712	12,984	31,102	43,735	4,631	10,014	148,178	5,276	1,730
Support equipment depreciation	1,466	220	738	1,674	1,531	119	5,748	947	—
Accumulated provisions	47,998	13,898	32,004	46,032	6,269	10,133	156,334	6,284	1,730
Net Capitalized Costs	\$ 39,430	\$ 14,542	\$ 16,318	\$ 16,508	\$ 38,261	\$ 3,186	\$ 128,245	\$ 17,885	\$ 3,211
At December 31, 2017									
Unproved properties	\$ 6,466	\$ 2,314	\$ 240	\$ 1,420	\$ 1,986	\$ 23	\$ 12,449	\$ 108	\$ —
Proved properties and related producing assets	66,390	20,696	43,656	55,616	21,544	10,697	218,599	8,956	4,346
Support equipment	2,248	337	1,104	2,050	15,599	132	21,470	1,731	—
Deferred exploratory wells	969	181	406	562	1,323	261	3,702	—	—
Other uncompleted projects	8,333	3,624	2,528	1,889	3,238	1,966	21,578	8,408	457
Gross Capitalized Costs	84,406	27,152	47,934	61,537	43,690	13,079	277,798	19,203	4,803
Unproved properties valuation	977	855	162	535	107	23	2,659	58	—
Proved producing properties – Depreciation and depletion	43,286	11,795	27,916	40,234	3,193	9,306	135,730	4,674	1,468
Support equipment depreciation	1,359	227	712	1,584	870	123	4,875	846	—
Accumulated provisions	45,622	12,877	28,790	42,353	4,170	9,452	143,264	5,578	1,468
Net Capitalized Costs	\$ 38,784	\$ 14,275	\$ 19,144	\$ 19,184	\$ 39,520	\$ 3,627	\$ 134,534	\$ 13,625	\$ 3,335

* 2017 and 2018 conformed to 2019 presentation

Table III - Results of Operations for Oil and Gas Producing Activities¹

The company's results of operations from oil and gas producing activities for the years 2019, 2018 and 2017 are shown in the following table. Net income (loss) from exploration and production activities as reported on page 69 reflects income taxes computed on an effective rate basis.

Income taxes in Table III are based on statutory tax rates, reflecting allowable deductions and tax credits. Interest income and expense are excluded from the results reported in Table III and from the net income amounts on page 69.

<i>Millions of dollars</i>	Consolidated Companies							Affiliated Companies	
	U.S.	Other Americas	Africa	Asia	Australia/ Oceania	Europe	Total	TCO ²	Other
Year Ended December 31, 2019									
Revenues from net production									
Sales	\$ 2,259	\$ 863	\$ 668	\$ 7,410	\$ 4,332	\$ 592	\$ 16,124	\$ 5,603	\$ 780
Transfers	11,043	2,160	6,534	1,311	2,596	655	24,299	—	—
Total	13,302	3,023	7,202	8,721	6,928	1,247	40,423	5,603	780
Production expenses excluding taxes	(3,567)	(1,020)	(1,460)	(2,703)	(616)	(343)	(9,709)	(475)	(247)
Taxes other than on income	(595)	(64)	(101)	(16)	(221)	(2)	(999)	(57)	(10)
Proved producing properties:									
Depreciation and depletion	(11,659)	(1,380)	(2,548)	(3,165)	(2,192)	(85)	(21,029)	(870)	(211)
Accretion expense ³	(191)	(21)	(148)	(133)	(53)	(37)	(583)	(5)	(8)
Exploration expenses	(293)	(211)	(73)	(93)	(60)	(10)	(740)	—	(8)
Unproved properties valuation	(3,268)	(591)	(2)	(388)	(2)	—	(4,251)	(4)	—
Other income (expense) ⁴	(51)	(44)	(121)	413	53	1,373	1,623	1	(157)
Results before income taxes	(6,322)	(308)	2,749	2,636	3,837	2,143	4,735	4,193	139
Income tax (expense) benefit	1,311	(27)	(1,731)	(1,212)	(1,161)	(311)	(3,131)	(1,261)	(73)
Results of Producing Operations	\$ (5,011)	\$ (335)	\$ 1,018	\$ 1,424	\$ 2,676	\$ 1,832	\$ 1,604	\$ 2,932	\$ 66
Year Ended December 31, 2018									
Revenues from net production									
Sales	\$ 2,162	\$ 1,008	\$ 829	\$ 5,880	\$ 4,229	\$ 619	\$ 14,727	\$ 5,987	\$ 1,369
Transfers	11,645	1,808	7,829	3,206	3,413	1,071	28,972	—	—
Total	13,807	2,816	8,658	9,086	7,642	1,690	43,699	5,987	1,369
Production expenses excluding taxes	(3,203)	(1,009)	(1,564)	(2,653)	(557)	(424)	(9,410)	(447)	(295)
Taxes other than on income	(540)	(70)	(112)	(22)	(250)	(2)	(996)	160	(210)
Proved producing properties:									
Depreciation and depletion	(4,583)	(998)	(3,368)	(3,714)	(2,103)	(411)	(15,177)	(711)	(306)
Accretion expense ³	(186)	(26)	(149)	(146)	(50)	(52)	(609)	(4)	(3)
Exploration expenses	(777)	(191)	(52)	(58)	(56)	(41)	(1,175)	(3)	(6)
Unproved properties valuation	(516)	(42)	(3)	(135)	—	—	(696)	—	—
Other income (expense) ⁴	336	4	97	(33)	31	(161)	274	70	(280)
Results before income taxes	4,338	484	3,507	2,325	4,657	599	15,910	5,052	269
Income tax (expense) benefit	(886)	(400)	(2,131)	(1,088)	(1,415)	(233)	(6,153)	(1,519)	341
Results of Producing Operations	\$ 3,452	\$ 84	\$ 1,376	\$ 1,237	\$ 3,242	\$ 366	\$ 9,757	\$ 3,533	\$ 610

¹ The value of owned production consumed in operations as fuel has been eliminated from revenues and production expenses, and the related volumes have been deducted from net production in calculating the unit average sales price and production cost. This has no effect on the results of producing operations.

² 2017 and 2018 conformed to 2019 presentation.

³ Represents accretion of ARO liability. Refer to Note 23, "Asset Retirement Obligations," on page 89.

⁴ Includes foreign currency gains and losses, gains and losses on property dispositions and other miscellaneous income and expenses.

Table III - Results of Operations for Oil and Gas Producing Activities¹, continued

Millions of dollars	Consolidated Companies							Affiliated Companies	
	U.S.	Other Americas	Africa	Asia	Australia/ Oceania	Europe	Total	TCO ²	Other
Year Ended December 31, 2017									
Revenues from net production									
Sales	\$ 1,548	\$ 999	\$ 487	\$ 5,381	\$ 2,061	\$ 372	\$ 10,848	\$ 4,509	\$ 1,218
Transfers	7,610	1,371	6,533	2,966	937	1,246	20,663	—	—
Total	9,158	2,370	7,020	8,347	2,998	1,618	31,511	4,509	1,218
Production expenses excluding taxes	(3,160)	(1,021)	(1,521)	(2,670)	(304)	(415)	(9,091)	(425)	(306)
Taxes other than on income	(403)	(85)	(115)	(11)	(183)	(3)	(800)	118	(121)
Proved producing properties:									
Depreciation and depletion	(5,092)	(1,046)	(3,531)	(4,134)	(1,176)	(668)	(15,647)	(645)	(365)
Accretion expense ³	(212)	(23)	(144)	(155)	(40)	(60)	(634)	(3)	(16)
Exploration expenses	(299)	(126)	(65)	(108)	(85)	(149)	(832)	—	—
Unproved properties valuation	(204)	(259)	(3)	(52)	—	—	(518)	(3)	—
Other income (expense) ⁴	580	(87)	259	273	170	(170)	1,025	25	(14)
Results before income taxes	368	(277)	1,900	1,490	1,380	153	5,014	3,576	396
Income tax (expense) benefit	(88)	(64)	(1,199)	(616)	(413)	(174)	(2,554)	(1,076)	20
Results of Producing Operations	\$ 280	\$ (341)	\$ 701	\$ 874	\$ 967	\$ (21)	\$ 2,460	\$ 2,500	\$ 416

¹ The value of owned production consumed in operations as fuel has been eliminated from revenues and production expenses, and the related volumes have been deducted from net production in calculating the unit average sales price and production cost. This has no effect on the results of producing operations.

² 2017 and 2018 conformed to 2019 presentation.

³ Represents accretion of ARO liability. Refer to Note 23, "Asset Retirement Obligations," on page 89.

⁴ Includes foreign currency gains and losses, gains and losses on property dispositions and other miscellaneous income and expenses.

Table IV - Results of Operations for Oil and Gas Producing Activities - Unit Prices and Costs¹

	Consolidated Companies							Affiliated Companies	
	U.S.	Other Americas	Africa	Asia	Australia/ Oceania	Europe	Total	TCO	Other
Year Ended December 31, 2019									
Average sales prices									
Liquids, per barrel	\$ 48.54	\$ 54.85	\$ 62.27	\$ 59.53	\$ 60.15	\$ 61.80	\$ 54.47	\$ 49.14	\$ 45.25
Natural gas, per thousand cubic feet	1.07	2.24	1.84	4.73	7.54	4.43	4.86	0.79	0.99
Average production costs, per barrel ²	10.48	15.97	11.90	12.74	4.08	14.28	10.62	3.53	7.93
Year Ended December 31, 2018									
Average sales prices									
Liquids, per barrel	\$ 58.17	\$ 58.27	\$ 69.75	\$ 63.55	\$ 68.78	\$ 66.31	\$ 62.45	\$ 56.20	\$ 56.41
Natural gas, per thousand cubic feet	1.86	2.62	2.55	4.48	8.78	7.54	5.54	0.77	3.19
Average production costs, per barrel ²	11.18	17.32	11.29	12.15	3.95	14.21	10.78	3.59	9.29
Year Ended December 31, 2017									
Average sales prices									
Liquids, per barrel	\$ 44.53	\$ 51.26	\$ 52.12	\$ 48.45	\$ 52.32	\$ 51.15	\$ 48.61	\$ 41.47	\$ 48.68
Natural gas, per thousand cubic feet	2.11	3.15	1.77	4.12	5.75	5.55	4.07	0.88	2.38
Average production costs, per barrel ²	12.83	18.64	10.88	11.30	3.60	11.95	11.41	3.34	8.51

¹ The value of owned production consumed in operations as fuel has been eliminated from revenues and production expenses, and the related volumes have been deducted from net production in calculating the unit average sales price and production cost. This has no effect on the results of producing operations.

² Natural gas converted to oil-equivalent gas (OEG) barrels at a rate of 6 MCF = 1 OEG barrel.

Table V Reserve Quantity Information
Summary of Net Oil and Gas Reserves

	2019				2018				2017			
<i>Liquids in Millions of Barrels</i>	Crude Oil	Synthetic Oil	NGL	Natural Gas	Crude Oil	Synthetic Oil	NGL	Natural Gas	Crude Oil	Synthetic Oil	NGL	Natural Gas
<i>Natural Gas in Billions of Cubic Feet</i>	Condensate				Condensate				Condensate			
Proved Developed												
Consolidated Companies												
U.S.	1,121	—	258	2,998	1,061	—	179	2,396	909	—	122	2,096
Other Americas	174	540	5	397	156	545	3	393	99	543	2	398
Africa	525	—	67	1,472	568	—	60	1,316	610	—	54	1,276
Asia	406	—	—	3,382	470	—	—	4,021	529	—	—	4,463
Australia/Oceania	136	—	4	10,697	127	—	5	10,084	121	—	5	9,907
Europe	21	—	—	8	81	—	3	205	80	—	3	215
Total Consolidated	2,383	540	334	18,954	2,463	545	250	18,415	2,348	543	186	18,355
Affiliated Companies												
TCO	584	—	59	1,135	638	—	62	1,179	716	—	71	1,300
Other	114	—	10	308	65	55	11	308	74	66	10	270
Total Consolidated and Affiliated Companies	3,081	540	403	20,397	3,166	600	323	19,902	3,138	609	267	19,925
Proved Undeveloped												
Consolidated Companies												
U.S.	807	—	244	1,730	813	—	349	4,313	664	—	221	3,084
Other Americas	146	—	11	339	185	—	19	470	181	—	15	397
Africa	88	—	33	1,286	110	—	38	1,499	133	—	42	1,630
Asia	107	—	—	299	109	—	—	289	102	—	—	310
Australia/Oceania	30	—	—	3,961	29	—	—	3,647	32	—	1	3,652
Europe	48	—	—	18	65	—	—	100	62	—	—	86
Total Consolidated	1,226	—	288	7,633	1,311	—	406	10,318	1,174	—	279	9,159
Affiliated Companies												
TCO	889	—	44	869	866	—	39	755	914	—	48	883
Other	45	—	5	558	2	72	5	601	9	93	11	769
Total Consolidated and Affiliated Companies	2,160	—	337	9,060	2,179	72	450	11,674	2,097	93	338	10,811
Total Proved Reserves	5,241	540	740	29,457	5,345	672	773	31,576	5,235	702	605	30,736

Reserves Governance The company has adopted a comprehensive reserves and resource classification system modeled after a system developed and approved by a number of organizations including the Society of Petroleum Engineers, the World Petroleum Congress and the American Association of Petroleum Geologists. The company classifies recoverable hydrocarbons into six categories based on their status at the time of reporting – three deemed commercial and three potentially recoverable. Within the commercial classification are proved reserves and two categories of unproved reserves: probable and possible. The potentially recoverable categories are also referred to as contingent resources. For reserves estimates to be classified as proved, they must meet all SEC and company standards.

Proved oil and gas reserves are the estimated quantities that geoscience and engineering data demonstrate with reasonable certainty to be economically producible in the future from known reservoirs under existing economic conditions, operating methods and government regulations. Net proved reserves exclude royalties and interests owned by others and reflect contractual arrangements and royalty obligations in effect at the time of the estimate.

Proved reserves are classified as either developed or undeveloped. Proved developed reserves are the quantities expected to be recovered through existing wells with existing equipment and operating methods. Proved undeveloped reserves are the quantities expected to be recovered from new wells on undrilled acreage or from existing wells where a relatively major expenditure is required for recompletion.

Due to the inherent uncertainties and the limited nature of reservoir data, estimates of reserves are subject to change as additional information becomes available.

Proved reserves are estimated by company asset teams composed of earth scientists and engineers. As part of the internal control process related to reserves estimation, the company maintains a Reserves Advisory Committee (RAC) that is chaired by the Manager of Global Reserves, an organization that is separate from the Upstream operating organization. The Manager

of Global Reserves has more than 30 years' experience working in the oil and gas industry and holds both undergraduate and graduate degrees in geoscience. His experience includes various technical and management roles in providing reserve and resource estimates in support of major capital and exploration projects, and more than 10 years of overseeing oil and gas reserves processes. He has been named a Distinguished Lecturer by the American Association of Petroleum Geologists and is an active member of the American Association of Petroleum Geologists, the SEPM Society of Sedimentary Geologists and the Society of Petroleum Engineers.

All RAC members are degreed professionals, each with more than 10 years of experience in various aspects of reserves estimation relating to reservoir engineering, petroleum engineering, earth science or finance. The members are knowledgeable in SEC guidelines for proved reserves classification and receive annual training on the preparation of reserves estimates.

The RAC has the following primary responsibilities: establish the policies and processes used within the operating units to estimate reserves; provide independent reviews and oversight of the business units' recommended reserves estimates and changes; confirm that proved reserves are recognized in accordance with SEC guidelines; determine that reserve volumes are calculated using consistent and appropriate standards, procedures and technology; and maintain the *Chevron Corporation Reserves Manual*, which provides standardized procedures used corporatewide for classifying and reporting hydrocarbon reserves.

During the year, the RAC is represented in meetings with each of the company's upstream business units to review and discuss reserve changes recommended by the various asset teams. Major changes are also reviewed with the company's senior leadership team including the Chief Executive Officer and the Chief Financial Officer. The company's annual reserve activity is also reviewed with the Board of Directors. If major changes to reserves were to occur between the annual reviews, those matters would also be discussed with the Board.

RAC subteams also conduct in-depth reviews during the year of many of the fields that have large proved reserves quantities. These reviews include an examination of the proved-reserve records and documentation of their compliance with the *Chevron Corporation Reserves Manual*.

Technologies Used in Establishing Proved Reserves Additions In 2019, additions to Chevron's proved reserves were based on a wide range of geologic and engineering technologies. Information generated from wells, such as well logs, wire line sampling, production and pressure testing, fluid analysis, and core analysis, was integrated with seismic data, regional geologic studies, and information from analogous reservoirs to provide "reasonably certain" proved reserves estimates. Both proprietary and commercially available analytic tools, including reservoir simulation, geologic modeling and seismic processing, have been used in the interpretation of the subsurface data. These technologies have been utilized extensively by the company in the past, and the company believes that they provide a high degree of confidence in establishing reliable and consistent reserves estimates.

Proved Undeveloped Reserves At the end of 2019, proved undeveloped reserves totaled 4.0 billion barrels of oil-equivalent (BOE), a decrease of 641 million BOE from year-end 2018. The decrease was due to 685 million BOE in revisions, the transfer of 593 million BOE to proved developed and 31 million BOE in sales, partially offset by 635 million BOE in extensions and discoveries, 26 million BOE in acquisitions and 7 million BOE in improved recovery. A major portion of the reserves revisions are attributed to the company's decision to reduce planned developments and evaluate strategic alternatives, including divestment scenarios for its acreage in the Appalachian region.

During 2019, investments totaling approximately \$10.5 billion in oil and gas producing activities and about \$0.1 billion in non-oil and gas producing activities were expended to advance the development of proved undeveloped reserves. In Asia, expenditures during the year totaled approximately \$5.3 billion, primarily related to development projects of the TCO affiliate in Kazakhstan. The United States accounted for about \$3.3 billion related primarily to various development activities in the Gulf of Mexico and the Midland and Delaware basins. In Africa, about \$0.5 billion was expended on various offshore development and natural gas projects in Nigeria, Angola and Republic of Congo. Development activities in Canada, Brazil and Argentina were primarily responsible for about \$1.0 billion of expenditures in Other Americas.

Reserves that remain proved undeveloped for five or more years are a result of several factors that affect optimal project development and execution, such as the complex nature of the development project in adverse and remote locations, physical limitations of infrastructure or plant capacities that dictate project timing, compression projects that are pending reservoir pressure declines, and contractual limitations that dictate production levels.

At year-end 2019, the company held approximately 2.1 billion BOE of proved undeveloped reserves that have remained undeveloped for five years or more. The majority of these reserves are in three locations where the company has a proven track record of developing major projects. In Australia, approximately 700 million BOE have remained undeveloped for five years or more related to the Gorgon and Wheatstone projects. Further field development to convert the remaining proved

undeveloped reserves is scheduled to occur in line with operating constraints and infrastructure optimization. In Africa, approximately 300 million BOE have remained undeveloped for five years or more, primarily due to facility constraints at various fields and infrastructure associated with the Escravos gas projects in Nigeria. Affiliates account for about 1.2 billion BOE of proved undeveloped reserves with about 900 million BOE that have remained undeveloped for five years or more, with the majority related to the TCO affiliate in Kazakhstan. At TCO, further field development to convert the remaining proved undeveloped reserves is scheduled to occur in line with reservoir depletion and facility constraints.

Annually, the company assesses whether any changes have occurred in facts or circumstances, such as changes to development plans, regulations or government policies, that would warrant a revision to reserve estimates. In 2019, decreases in commodity prices negatively impacted the economic limits of oil and gas properties, resulting in proved reserve decreases, and positively impacted proved reserves due to entitlement effects. The year-end reserves quantities have been updated for these circumstances and significant changes have been discussed in the appropriate reserves sections. Over the past three years, the ratio of proved undeveloped reserves to total proved reserves has ranged between 35 percent and 38 percent.

Proved Reserve Quantities For the three years ending December 31, 2019, the pattern of net reserve changes shown in the following tables are not necessarily indicative of future trends. Apart from acquisitions, the company's ability to add proved reserves can be affected by events and circumstances that are outside the company's control, such as delays in government permitting, partner approvals of development plans, changes in oil and gas prices, OPEC constraints, geopolitical uncertainties, and civil unrest.

At December 31, 2019, proved reserves for the company were 11.4 billion BOE. The company's estimated net proved reserves of liquids including crude oil, condensate and synthetic oil for the years 2017, 2018 and 2019 are shown in the table on page 99. The company's estimated net proved reserves of natural gas liquids are shown on page 100 and the company's estimated net proved reserves of natural gas are shown on page 101.

Noteworthy changes in crude oil, condensate and synthetic oil proved reserves for 2017 through 2019 are discussed below and shown in the table on the following page:

Revisions In 2017, improved field performance at various Gulf of Mexico fields, including Jack/St Malo and Tahiti, and in the Midland and Delaware basins were primarily responsible for the 209 million barrel increase in the United States. Improved field performance at various fields, including Agbami and Sonam in Nigeria, were responsible for the 73 million barrel increase in Africa. Synthetic oil reserves in Canada decreased by 42 million barrels, primarily due to entitlement effects. In the TCO affiliate in Kazakhstan, entitlement effects were mainly responsible for the 52 million barrel decrease.

In 2018, improved field performance at various Gulf of Mexico fields and in the Midland and Delaware basins were primarily responsible for the 121 million barrel increase in the United States. Improved field performance at various fields, including Agbami in Nigeria and Moho-Bilondo in the Republic of Congo, were responsible for the 61 million barrel increase in Africa. Reserves in Other Americas increased by 59 million barrels, primarily due to improved field performance at the Hebron field in Canada. In Asia, improved performance across numerous assets resulted in the 37 million barrel increase.

In 2019, portfolio optimizations, where future drilling in various fields in the Midland and Delaware basins is being targeted away from reservoirs with higher gas-to-oil ratios and lower execution efficiencies, and planned divestments in the Appalachian basin, were primarily responsible for the 153 million barrel decrease in the United States. Operational issues with the Petropiar upgrader in Venezuela resulted in a decrease in reserves of synthetic oil of 126 million barrels and an increase of crude oil and condensate reserves of 105 million barrels. Reservoir management and entitlement effects were mainly responsible for 75 million barrels increase in the TCO affiliate in Kazakhstan. Improved field performance at various fields, including Moho-Bilondo in the Republic of Congo, Mafumeria in Angola, and Sonam in Nigeria, were responsible for the 42 million barrel increase in Africa.

Extensions and Discoveries In 2017, extensions and discoveries in the Midland and Delaware basins and the Gulf of Mexico were primarily responsible for the 323 million barrel increase in the United States. Extensions and discoveries in the Duvernay Shale in Canada were primarily responsible for the 63 million barrel increase in Other Americas.

In 2018, extensions and discoveries in the Midland and Delaware basins were primarily responsible for the 359 million barrel increase in the United States. Extensions and discoveries in the Duvernay Shale in Canada and Loma Campana in Argentina were primarily responsible for the 31 million barrel increase in Other Americas.

In 2019, portfolio optimizations, where future drilling in various fields in the Midland and Delaware basins is being targeted towards liquids-rich reservoirs with higher execution efficiencies, and extensions and discoveries in the deepwater fields in the Gulf of Mexico, were primarily responsible for the 394 million barrel increase in the United States. Extensions and discoveries in Loma Campana in Argentina were primarily responsible for the 39 million barrel increase in Other Americas.

Purchases In 2017, purchases of 33 million barrels in Asia were due to contract extension in the Azeri-Chirag-Gunashli fields in Azerbaijan.

In 2018, purchases of 31 million barrels in the United States were primarily in the Midland and Delaware basins.

Sales In 2017, sales of 51 million barrels in the United States were primarily in the Gulf of Mexico shelf and in the Midland and Delaware basins.

In 2019, sales of 69 million barrels in Europe were in the United Kingdom and Denmark.

Net Proved Reserves of Crude Oil, Condensate and Synthetic Oil

Millions of barrels	Consolidated Companies							Affiliated Companies			Total Consolidated and Affiliated Companies	
	U.S.	Other Americas ¹	Africa	Asia	Australia/Oceania	Europe	Synthetic Oil ²	Total	TCO	Oil		Other ³
Reserves at January 1, 2017	1,244	219	782	720	152	135	604	3,856	1,781	170	93	5,900
Changes attributable to:												
Revisions	209	22	73	(17)	10	29	(42)	284	(52)	—	(4)	228
Improved recovery	9	—	7	1	—	—	—	17	—	—	3	20
Extensions and discoveries	323	63	4	—	—	—	—	390	—	—	—	390
Purchases	4	—	2	33	—	—	—	39	—	—	—	39
Sales	(51)	(1)	—	(2)	—	—	—	(54)	—	—	—	(54)
Production	(165)	(23)	(125)	(104)	(9)	(22)	(19)	(467)	(99)	(11)	(9)	(586)
Reserves at December 31, 2017⁴	1,573	280	743	631	153	142	543	4,065	1,630	159	83	5,937
Changes attributable to:												
Revisions	121	59	61	37	17	19	21	335	(28)	(23)	(7)	277
Improved recovery	5	—	—	1	—	4	—	10	—	—	—	10
Extensions and discoveries	359	31	1	—	—	—	—	391	—	—	—	391
Purchases	31	—	—	—	—	—	—	31	—	—	—	31
Sales	(26)	—	(5)	—	—	—	—	(31)	—	—	—	(31)
Production	(189)	(29)	(122)	(90)	(14)	(19)	(19)	(482)	(98)	(9)	(9)	(598)
Reserves at December 31, 2018⁴	1,874	341	678	579	156	146	545	4,319	1,504	127	67	6,017
Changes attributable to:												
Revisions	(153)	(25)	42	19	25	6	14	(72)	75	(126)	105	(18)
Improved recovery	7	—	—	—	—	—	—	7	—	—	—	7
Extensions and discoveries	394	39	1	1	1	2	—	438	—	—	—	438
Purchases	19	2	—	—	—	—	—	21	—	—	—	21
Sales	—	(4)	—	—	—	(69)	—	(73)	—	—	—	(73)
Production	(213)	(33)	(108)	(86)	(16)	(16)	(19)	(491)	(106)	(1)	(13)	(611)
Reserves at December 31, 2019⁴	1,928	320	613	513	166	69	540	4,149	1,473	—	159	5,781

¹ Ending reserve balances in North America were 230, 269 and 217 and in South America were 90, 72 and 63 in 2019, 2018 and 2017, respectively.

² Reserves associated with Canada.

³ Ending reserve balances in Africa were 3, 3 and 5 and in South America were 156, 64 and 78 in 2019, 2018 and 2017, respectively.

⁴ Included are year-end reserve quantities related to production-sharing contracts (PSC) (refer to page E-7 for the definition of a PSC). PSC-related reserve quantities are 11 percent, 14 percent and 16 percent for consolidated companies for 2019, 2018 and 2017, respectively.

Noteworthy changes in natural gas liquids proved reserves for 2017 through 2019 are discussed and shown in the table below:

Revisions In 2017, improved field performance in the Midland and Delaware basins and at various Gulf of Mexico fields were primarily responsible for the 71 million barrel increase in the United States.

In 2018, improved field performance in the Midland and Delaware basins were primarily responsible for the 34 million barrel increase in the United States.

In 2019, portfolio optimizations and low price realizations in various fields in the Midland and Delaware basins and planned divestments in the Appalachian basin were mainly responsible for the 120 million barrel decrease in the United States.

Extensions and Discoveries In 2017, extensions and discoveries in the Midland and Delaware basins and the Appalachian region were primarily responsible for the 135 million barrel increase in the United States.

In 2018, extensions and discoveries in the Midland and Delaware basins were primarily responsible for the 173 million barrel increase in the United States.

In 2019, extensions and discoveries in the Midland and Delaware basins and deepwater fields in the Gulf of Mexico were primarily responsible for the 140 million barrel increase in the United States.

Net Proved Reserves of Natural Gas Liquids

Millions of barrels	Consolidated Companies							Affiliated Companies		Total Consolidated and Affiliated Companies
	U.S.	Other Americas ¹	Africa	Asia	Australia/ Oceania	Europe	Total	TCO	Other ²	
Reserves at January 1, 2017	168	4	94	—	6	3	275	128	25	428
Changes attributable to:										
Revisions	71	3	6	—	1	1	82	(1)	(1)	80
Improved recovery	—	—	—	—	—	—	—	—	—	—
Extensions and discoveries	135	11	—	—	—	—	146	—	—	146
Purchases	—	—	—	—	—	—	—	—	—	—
Sales	(6)	—	—	—	—	—	(6)	—	—	(6)
Production	(25)	(1)	(4)	—	(1)	(1)	(32)	(8)	(3)	(43)
Reserves at December 31, 2017³	343	17	96	—	6	3	465	119	21	605
Changes attributable to:										
Revisions	34	1	7	—	—	1	43	(11)	(3)	29
Improved recovery	—	—	—	—	—	—	—	—	—	—
Extensions and discoveries	173	5	—	—	—	—	178	—	—	178
Purchases	19	—	—	—	—	—	19	—	—	19
Sales	(6)	—	—	—	—	—	(6)	—	—	(6)
Production	(35)	(1)	(5)	—	(1)	(1)	(43)	(7)	(2)	(52)
Reserves at December 31, 2018³	528	22	98	—	5	3	656	101	16	773
Changes attributable to:										
Revisions	(120)	(4)	6	—	—	—	(118)	10	2	(106)
Improved recovery	—	—	—	—	—	—	—	—	—	—
Extensions and discoveries	140	—	—	—	—	—	140	—	—	140
Purchases	5	—	—	—	—	—	5	—	—	5
Sales	—	—	—	—	—	(2)	(2)	—	—	(2)
Production	(51)	(2)	(4)	—	(1)	(1)	(59)	(8)	(3)	(70)
Reserves at December 31, 2019³	502	16	100	—	4	—	622	103	15	740

¹ Reserves associated with North America.

² Reserves associated with Africa.

³ Year-end reserve quantities related to production-sharing contracts (PSC) (refer to page E-7 for the definition of a PSC) are not material for 2019, 2018 and 2017, respectively.

Net Proved Reserves of Natural Gas

Billions of cubic feet (BCF)	Consolidated Companies							Affiliated Companies		Total Consolidated and Affiliated Companies
	U.S.	Other Americas ¹	Africa	Asia	Australia/Oceania	Europe	Total	TCO	Other ²	
Reserves at January 1, 2017	3,676	647	2,827	5,533	12,515	234	25,432	2,242	1,086	28,760
Changes attributable to:										
Revisions	670	39	184	65	1,545	143	2,646	87	48	2,781
Improved recovery	3	—	—	—	—	—	3	—	—	3
Extensions and discoveries	1,361	319	—	2	—	—	1,682	—	—	1,682
Purchases	1	—	2	46	—	—	49	—	—	49
Sales	(177)	(129)	—	(31)	—	—	(337)	—	—	(337)
Production ³	(354)	(81)	(107)	(842)	(501)	(76)	(1,961)	(146)	(95)	(2,202)
Reserves at December 31, 2017⁴	5,180	795	2,906	4,773	13,559	301	27,514	2,183	1,039	30,736
Changes attributable to:										
Revisions	258	(3)	25	347	1,012	68	1,707	(108)	(38)	1,561
Improved recovery	2	2	—	—	1	—	5	—	—	5
Extensions and discoveries	1,627	138	—	5	—	1	1,771	—	3	1,774
Purchases	144	—	1	—	—	—	145	—	—	145
Sales	(125)	—	(5)	—	—	—	(130)	—	—	(130)
Production ³	(377)	(69)	(112)	(815)	(841)	(65)	(2,279)	(141)	(95)	(2,515)
Reserves at December 31, 2018⁴	6,709	863	2,815	4,310	13,731	305	28,733	1,934	909	31,576
Changes attributable to:										
Revisions	(2,565)	(107)	46	165	1,732	3	(726)	223	39	(464)
Improved recovery	—	—	—	—	—	—	—	—	—	—
Extensions and discoveries	1,008	49	—	5	93	1	1,156	—	20	1,176
Purchases	24	—	—	—	—	—	24	—	—	24
Sales	(1)	(2)	—	—	—	(240)	(243)	—	—	(243)
Production ³	(447)	(67)	(103)	(799)	(898)	(43)	(2,357)	(153)	(102)	(2,612)
Reserves at December 31, 2019⁴	4,728	736	2,758	3,681	14,658	26	26,587	2,004	866	29,457

¹ Ending reserve balances in North America and South America were 462, 582, 478 and 274, 281, 317 in 2019, 2018 and 2017, respectively.

² Ending reserve balances in Africa and South America were 802, 799, 899 and 64, 110, 140 in 2019, 2018 and 2017, respectively.

³ Total "as sold" volumes are 2,379, 2,289 and 1,995 for 2019, 2018 and 2017, respectively.

⁴ Includes reserve quantities related to production-sharing contracts (PSC) (refer to page E-7 for the definition of a PSC). PSC-related reserve quantities are 10 percent, 10 percent and 12 percent for consolidated companies for 2019, 2018 and 2017, respectively.

Noteworthy changes in natural gas proved reserves for 2017 through 2019 are discussed below and shown in the table above:

Revisions In 2017, reservoir performance and new seismic data in the greater Gorgon area were primarily responsible for the 1.5 TCF increase in Australia. Improved performance in the Midland and Delaware basins were primarily responsible for the 670 BCF increase in the United States. The Sonam Field in Nigeria was primarily responsible for the 184 BCF increase in Africa.

In 2018, reservoir performance, well test and surveillance data at Wheatstone and the greater Gorgon area were responsible for the 1.0 TCF increase in Australia. The Bibiyana Field in Bangladesh and the Pattani Field in Thailand were primarily responsible for the 347 BCF increase in Asia. Improved performance in the Midland and Delaware basins were primarily responsible for the 258 BCF increase in the United States.

In 2019, strong performances at Wheatstone and the greater Gorgon areas were mainly responsible for 1.7 TCF increase in Australia. In the TCO affiliate in Kazakhstan, reservoir management and entitlement effects were mainly responsible for 223 BCF increase. Portfolio optimizations and low price realizations in various fields of the Midland and Delaware basins and planned divestments in the Appalachian basin, were mainly responsible for the 2.6 TCF decrease in the United States.

Extensions and Discoveries In 2017, extensions and discoveries of 1.4 TCF in the United States were primarily in the Appalachian region and the Midland and Delaware basins. Extensions and discoveries in the Duvernay Shale in Canada were primarily responsible for the 319 BCF increase in Other Americas.

In 2018, extensions and discoveries of 1.6 TCF in the United States were primarily in the Appalachian region and the Midland and Delaware basins.

In 2019, extensions and discoveries of 1.0 TCF in the United States were primarily in the Midland and Delaware basins.

Sales In 2017, sales of 177 BCF in the United States were primarily from the Midland and Delaware basins. Sale of the company's interests in Trinidad and Tobago was primarily responsible for the 129 BCF decrease in Other Americas.

In 2019, sales of 240 BCF in Europe were in the United Kingdom and Denmark.

Table VI - Standardized Measure of Discounted Future Net Cash Flows Related to Proved Oil and Gas Reserves

The standardized measure of discounted future net cash flows is calculated in accordance with SEC and FASB requirements. This includes using the average of first-day-of-the-month oil and gas prices for the 12-month period prior to the end of the reporting period, estimated future development and production costs assuming the continuation of existing economic conditions, estimated costs for asset retirement obligations (includes costs to retire existing wells and facilities in addition to those future wells and facilities necessary to produce proved undeveloped reserves), and estimated future income taxes based on appropriate statutory tax rates. Discounted future net cash flows are calculated using 10 percent mid-period discount factors. Estimates of proved-reserve quantities are imprecise and change over time as new information becomes available. Probable and possible reserves, which may become proved in the future, are excluded from the calculations. The valuation requires assumptions as to the timing and amount of future development and production costs. The calculations are made as of December 31 each year and do not represent management's estimate of the company's future cash flows or value of its oil and gas reserves. In the following table, the caption "Standardized Measure Net Cash Flows" refers to the standardized measure of discounted future net cash flows.

Millions of dollars	Consolidated Companies							Affiliated Companies		Total Consolidated and Affiliated Companies
	U.S.	Other Americas	Africa	Asia	Australia/Oceania	Europe	Total	TCO	Other	
At December 31, 2019										
Future cash inflows from production	\$ 122,012	\$ 45,701	\$ 45,706	\$ 43,386	\$ 95,845	\$ 4,466	\$ 357,116	\$ 85,179	\$ 12,309	\$ 454,604
Future production costs	(32,349)	(18,324)	(17,982)	(14,646)	(14,141)	(1,428)	(98,870)	(22,302)	(2,487)	(123,659)
Future development costs	(15,987)	(4,219)	(3,643)	(5,070)	(5,458)	(341)	(34,718)	(14,340)	(705)	(49,763)
Future income taxes	(15,780)	(6,491)	(17,562)	(11,147)	(22,874)	(1,078)	(74,932)	(14,561)	(3,855)	(93,348)
Undiscounted future net cash flows	57,896	16,667	6,519	12,523	53,372	1,619	148,596	33,976	5,262	187,834
10 percent midyear annual discount for timing of estimated cash flows	(26,422)	(9,312)	(1,629)	(3,652)	(26,536)	(650)	(68,201)	(16,990)	(2,096)	(87,287)
Standardized Measure Net Cash Flows	\$ 31,474	\$ 7,355	\$ 4,890	\$ 8,871	\$ 26,836	\$ 969	\$ 80,395	\$ 16,986	\$ 3,166	\$ 100,547
At December 31, 2018										
Future cash inflows from production	\$ 132,512	\$ 52,470	\$ 56,856	\$ 54,012	\$ 109,116	\$ 11,959	\$ 416,925	\$ 100,518	\$ 16,928	\$ 534,371
Future production costs	(34,679)	(20,691)	(18,850)	(17,359)	(16,296)	(6,609)	(114,484)	(24,580)	(4,665)	(143,729)
Future development costs	(17,322)	(5,106)	(4,112)	(5,494)	(7,757)	(1,393)	(41,184)	(14,069)	(1,692)	(56,945)
Future income taxes	(17,369)	(7,553)	(23,593)	(14,514)	(25,519)	(1,676)	(90,224)	(18,561)	(4,496)	(113,281)
Undiscounted future net cash flows	63,142	19,120	10,301	16,645	59,544	2,281	171,033	43,308	6,075	220,416
10 percent midyear annual discount for timing of estimated cash flows	(29,103)	(11,136)	(2,646)	(4,822)	(28,276)	(419)	(76,402)	(22,025)	(2,662)	(101,089)
Standardized Measure Net Cash Flows	\$ 34,039	\$ 7,984	\$ 7,655	\$ 11,823	\$ 31,268	\$ 1,862	\$ 94,631	\$ 21,283	\$ 3,413	\$ 119,327
At December 31, 2017										
Future cash inflows from production	\$ 94,086	\$ 43,175	\$ 47,828	\$ 47,809	\$ 77,557	\$ 8,800	\$ 319,255	\$ 80,090	\$ 13,632	\$ 412,977
Future production costs	(29,049)	(20,044)	(18,124)	(18,640)	(12,315)	(6,345)	(104,517)	(22,050)	(4,635)	(131,202)
Future development costs	(10,849)	(5,102)	(3,808)	(4,755)	(6,682)	(1,114)	(32,310)	(17,564)	(1,760)	(51,634)
Future income taxes	(10,803)	(5,158)	(17,845)	(10,901)	(17,568)	(615)	(62,890)	(12,143)	(3,250)	(78,283)
Undiscounted future net cash flows	43,385	12,871	8,051	13,513	40,992	726	119,538	28,333	3,987	151,858
10 percent midyear annual discount for timing of estimated cash flows	(19,781)	(8,483)	(2,058)	(3,846)	(19,730)	207	(53,691)	(16,310)	(1,844)	(71,845)
Standardized Measure Net Cash Flows	\$ 23,604	\$ 4,388	\$ 5,993	\$ 9,667	\$ 21,262	\$ 933	\$ 65,847	\$ 12,023	\$ 2,143	\$ 80,013

Table VII - Changes in the Standardized Measure of Discounted Future Net Cash Flows From Proved Reserves

The changes in present values between years, which can be significant, reflect changes in estimated proved-reserve quantities and prices and assumptions used in forecasting production volumes and costs. Changes in the timing of production are included with “Revisions of previous quantity estimates.”

<i>Millions of dollars</i>	Consolidated Companies	Affiliated Companies	Total Consolidated and Affiliated Companies
Present Value at January 1, 2017	\$ 42,355	\$ 9,714	\$ 52,069
Sales and transfers of oil and gas produced net of production costs	(21,505)	(5,234)	(26,739)
Development costs incurred	9,417	3,721	13,138
Purchases of reserves	105	—	105
Sales of reserves	(1,148)	—	(1,148)
Extensions, discoveries and improved recovery less related costs	3,716	—	3,716
Revisions of previous quantity estimates	11,132	(1,085)	10,047
Net changes in prices, development and production costs	28,754	8,013	36,767
Accretion of discount	6,116	1,398	7,514
Net change in income tax	(13,095)	(2,361)	(15,456)
Net Change for 2017	23,492	4,452	27,944
Present Value at December 31, 2017	\$ 65,847	\$ 14,166	\$ 80,013
Sales and transfers of oil and gas produced net of production costs	(33,535)	(6,813)	(40,348)
Development costs incurred	9,723	5,044	14,767
Purchases of reserves	99	—	99
Sales of reserves	(622)	—	(622)
Extensions, discoveries and improved recovery less related costs	5,503	14	5,517
Revisions of previous quantity estimates	15,480	(2,255)	13,225
Net changes in prices, development and production costs	39,241	17,251	56,492
Accretion of discount	9,413	2,084	11,497
Net change in income tax	(16,518)	(4,795)	(21,313)
Net Change for 2018	28,784	10,530	39,314
Present Value at December 31, 2018	\$ 94,631	\$ 24,696	\$ 119,327
Sales and transfers of oil and gas produced net of production costs	(29,436)	(5,823)	(35,259)
Development costs incurred	10,497	5,120	15,617
Purchases of reserves	406	—	406
Sales of reserves	(579)	—	(579)
Extensions, discoveries and improved recovery less related costs	5,697	43	5,740
Revisions of previous quantity estimates	621	2,122	2,743
Net changes in prices, development and production costs	(25,056)	(11,637)	(36,693)
Accretion of discount	13,538	3,584	17,122
Net change in income tax	10,077	2,046	12,123
Net Change for 2019	(14,235)	(4,545)	(18,780)
Present Value at December 31, 2019	\$ 80,396	\$ 20,151	\$ 100,547

PART IV

Item 15. Exhibits and Financial Statement Schedules

(a) The following documents are filed as part of this report:

(1) Financial Statements:

	Page(s)
Report of Independent Registered Public Accounting Firm — PricewaterhouseCoopers LLP	50
Consolidated Statement of Income for the three years ended December 31, 2019	52
Consolidated Statement of Comprehensive Income for the three years ended December 31, 2019	53
Consolidated Balance Sheet at December 31, 2019 and 2018	54
Consolidated Statement of Cash Flows for the three years ended December 31, 2019	55
Consolidated Statement of Equity for the three years ended December 31, 2019	56
Notes to the Consolidated Financial Statements	57 to 90

(2) Financial Statement Schedules:

Included below is Schedule II - Valuation and Qualifying Accounts for each of the three years in the period ended December 31, 2019.

(3) Exhibits:

The Exhibit Index on the following pages lists the exhibits that are filed as part of this report.

Schedule II — Valuation and Qualifying Accounts

<i>Millions of Dollars</i>	Year ended December 31		
	2019	2018	2017
Employee Termination Benefits			
Balance at January 1	\$ 19	\$ 62	\$ 111
Additions (reductions) charged to expense	6	5	20
Payments	(18)	(48)	(69)
Balance at December 31	\$ 7	\$ 19	\$ 62
Allowance for Doubtful Accounts			
Balance at January 1	\$ 980	\$ 606	\$ 487
Additions (reductions)	(128)	379	128
Bad debt write-offs	(3)	(5)	(9)
Balance at December 31	\$ 849	\$ 980	\$ 606
Deferred Income Tax Valuation Allowance*			
Balance at January 1	\$ 15,973	\$ 16,574	\$ 16,069
Additions to deferred income tax expense	1,336	2,000	2,681
Reduction of deferred income tax expense	(1,344)	(2,601)	(2,176)
Balance at December 31	\$ 15,965	\$ 15,973	\$ 16,574

* See also Note 15 to the Consolidated Financial Statements, beginning on page 74.

Item 16. Form 10-K Summary

Not applicable.

EXHIBIT INDEX

Exhibit No.	Description
3.1	Restated Certificate of Incorporation of Chevron Corporation, dated May 30, 2008, filed as Exhibit 3.1 to Chevron Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2008, and incorporated herein by reference.
3.2	By-Laws of Chevron Corporation, as amended and restated on September 25, 2019 filed as Exhibit 3.2 to Chevron Corporation's Current Report on Form 8-K filed September 27, 2019, and incorporated herein by reference.
4.1	Indenture, dated as of June 15, 1995, filed as Exhibit 4.1 to Chevron Corporation's Amendment Number 1 to Registration Statement on Form S-3 filed June 14, 1995, and incorporated herein by reference.
4.2	Form of Indenture filed as Exhibit 4.1 to Chevron Corporation's Registration Statement on Form S-3 filed May 3, 2018, and incorporated herein by reference.
4.3	Confidential Stockholder Voting Policy of Chevron Corporation, filed as Exhibit 4.2 to Chevron Corporation's Annual Report on Form 10-K for the year ended December 31, 2008, and incorporated herein by reference.
4.4*	Description of Securities Registered under Section 12 of the Exchange Act.
10.1+	Chevron Corporation Non-Employee Directors' Equity Compensation and Deferral Plan, filed as Exhibit 10.1 to Chevron Corporation's Annual Report on Form 10-K for the year ended December 31, 2008, and incorporated herein by reference.
10.2+	Amendment Number One to the Chevron Corporation Non-Employee Directors' Equity Compensation and Deferral Plan, filed as Exhibit 10.1 to Chevron Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2016, and incorporated herein by reference.
10.3+	Form of Retainer Stock Option Agreement under the Chevron Corporation Non-Employee Directors' Equity Compensation and Deferral Plan, filed as Exhibit 10.17 to Chevron Corporation's Annual Report on Form 10-K for the year ended December 31, 2009, and incorporated herein by reference.
10.4+	Form of Stock Units Agreement under the Chevron Corporation Non-Employee Directors' Equity Compensation and Deferral Plan, filed as Exhibit 10.19 to Chevron Corporation's Annual Report on Form 10-K for the year ended December 31, 2008, and incorporated herein by reference.
10.5+	Chevron Incentive Plan, filed as Exhibit 10.2 to Chevron Corporation's Annual Report on Form 10-K for the year ended December 31, 2008, and incorporated herein by reference.
10.6+	Amendment to the Chevron Incentive Plan, effective January 31, 2018, filed as Exhibit 10.6 to Chevron Corporation's Annual Report on Form 10-K for the year ended December 31, 2017, and incorporated herein by reference.
10.7+*	Summary of Chevron Incentive Plan Award Criteria
10.8+	Long-Term Incentive Plan of Chevron Corporation, filed as Appendix B to Chevron Corporation's Notice of the 2013 Annual Meeting and 2013 Proxy Statement filed April 11, 2013, and incorporated herein by reference.
10.9+	Form of Performance Share Award Agreement under the Long-Term Incentive Plan of Chevron Corporation, filed as Exhibit 10.1 to Chevron Corporation's Current Report on Form 8-K filed February 3, 2020, and incorporated herein by reference.
10.10+	Form of Standard Restricted Stock Unit Award Agreement under the Long-Term Incentive Plan of Chevron Corporation, filed as Exhibit 10.3 to Chevron Corporation's Current Report on Form 8-K filed February 3, 2020, and incorporated herein by reference.
10.11+	Form of Special Restricted Stock Unit Award Agreement under the Long-Term Incentive Plan of Chevron Corporation, filed as Exhibit 10.3 to Chevron Corporation's Current Report on Form 8-K filed February 4, 2019, and incorporated herein by reference.
10.12+	Form of Non-Qualified Stock Options Agreement under the Long-Term Incentive Plan of Chevron Corporation, filed as Exhibit 10.2 to Chevron Corporation's Current Report on Form 8-K filed February 3, 2020, and incorporated herein by reference.
10.13+*	Form of Stock Appreciation Rights Agreement under the Long-Term Incentive Plan of Chevron Corporation.

Exhibit No.	Description
10.14+	Chevron Corporation Deferred Compensation Plan for Management Employees, filed as Exhibit 10.5 to Chevron Corporation's Current Report on Form 8-K filed December 13, 2005, and incorporated herein by reference.
10.15+	Chevron Corporation Deferred Compensation Plan for Management Employees II, filed as Exhibit 10.5 to Chevron Corporation's Annual Report on Form 10-K for the year ended December 31, 2008, and incorporated herein by reference.
10.16+	Chevron Corporation Retirement Restoration Plan, filed as Exhibit 10.6 to Chevron Corporation's Annual Report on Form 10-K for the year ended December 31, 2008, and incorporated herein by reference.
10.17+	Amendment Number One to the Chevron Corporation Retirement Restoration Plan, filed as Exhibit 10.23 to Chevron Corporation's Annual Report on Form 10-K for the year ended December 31, 2017, and incorporated herein by reference.
10.18+	Chevron Corporation ESIP Restoration Plan, Amended and Restated as of January 1, 2018, filed as Exhibit 10.1 to Chevron Corporation's Quarterly Report on Form 10-Q for the quarter ended September 30, 2017, and incorporated herein by reference.
10.19+	Agreement between Chevron Corporation and R. Hewitt Pate, filed as Exhibit 10.16 to Chevron Corporation's Annual Report on Form 10-K for the year ended December 31, 2011, and incorporated herein by reference.
21.1*	Subsidiaries of Chevron Corporation (page E-1).
23.1*	Consent of PricewaterhouseCoopers LLP (page E-2).
23.2*	Consent of PricewaterhouseCoopers LLP for Tengizchevroil.
24.1*	Power of Attorney for certain directors of Chevron Corporation, authorizing the signing of the Annual Report on Form 10-K on their behalf.
31.1*	Rule 13a-14(a)/15d-14(a) Certification by the company's Chief Executive Officer (page E-3).
31.2*	Rule 13a-14(a)/15d-14(a) Certification by the company's Chief Financial Officer (page E-4).
32.1**	Rule 13a-14(b)/15d-14(b) Certification by the company's Chief Executive Officer (page E-5).
32.2**	Rule 13a-14(b)/15d-14(b) Certification by the company's Chief Financial Officer (page E-6).
99.1*	Definitions of Selected Energy and Financial Terms (pages E-7 through E-8).
99.2*	Tengizchevroil LLP Consolidated Financial Statements for the fiscal year ended December 31, 2019.
101.SCH*	iXBRL Schema Document.
101.CAL*	iXBRL Calculation Linkbase Document.
101.DEF*	iXBRL Definition Linkbase Document.
101.LAB*	iXBRL Label Linkbase Document.
101.PRE*	iXBRL Presentation Linkbase Document.
104*	Cover Page Interactive Data File (contained in Exhibit 101)

Attached as Exhibit 101 to this report are documents formatted in iXBRL (Inline Extensible Business Reporting Language). The financial information contained in the iXBRL-related documents is "unaudited" or "unreviewed."

+ Indicates a management contract or compensatory plan or arrangement.

* Filed herewith.

** Furnished herewith.

Pursuant to Item 601(b)(4) of Regulation S-K, certain instruments with respect to the company's long-term debt are not filed with this Annual Report on Form 10-K. A copy of any such instrument will be furnished to the Securities and Exchange Commission upon request.

**DESCRIPTION OF SECURITIES
REGISTERED UNDER SECTION 12 OF THE
EXCHANGE ACT**

Chevron Corporation (“Chevron” or “our”) has one class of securities registered under Section 12 of the Securities Exchange Act of 1934, as amended (the “Exchange Act”): our Common Stock.

Description of Common Stock

The following description of our Common Stock is a summary and does not purport to be complete. It is subject to and qualified in its entirety by reference to our Restated Certificate of Incorporation (the “Certificate of Incorporation”) and our Amended and Restated Bylaws (the “Bylaws”), each of which is incorporated by reference as an exhibit to the Annual Report on Form 10-K, of which this Exhibit is a part. We encourage you to read our Certificate of Incorporation, our Bylaws and the applicable provisions of the Delaware General Corporation Law, including Section 203 thereof, for additional information.

Authorized Shares of Capital Stock

Our authorized capital stock consists of 6,000,000,000 shares of common stock, \$0.75 par value per share (“Common Stock”), and 100,000,000 shares of preferred stock, \$1.00 par value per share (“Preferred Stock”). The outstanding shares of our Common Stock are duly authorized, validly issued, fully paid, and nonassessable.

Voting Rights

Holders of Common Stock are entitled to one vote per share on all matters voted on by the stockholders, including the election of directors. Our Common Stock does not have cumulative voting rights.

Dividend Rights

Subject to the rights of holders of outstanding shares of Preferred Stock, if any, the holders of Common Stock are entitled to receive dividends, if any, as may be declared from time to time by the Board of Directors in its discretion out of funds legally available for the payment of dividends.

Liquidation Rights

Subject to any preferential rights of outstanding shares of Preferred Stock, holders of Common Stock will share ratably in all assets legally available for distribution to our stockholders in the event of dissolution.

Other Rights and Preferences

Our Common Stock has no sinking fund or redemption provisions or preemptive, conversion, or exchange rights. Special meetings of stockholders may be called by stockholders owning 15% of the shares of Common Stock then outstanding and entitled to vote at the meeting. Any action which may be taken by our stockholders at an annual or special meeting and which requires the approval of at least a majority of the voting power of the Chevron securities present at such meeting and entitled to vote on such action, or the shares of Common Stock present at such meeting, may not be effected except at such an annual or special meeting by the vote required for the taking of such action. Under this provision, stockholders are prohibited from taking certain actions by unanimous written consent in lieu of a meeting, including amending the Bylaws and removing directors, unless the Board of Directors waives this requirement.

Certain Anti-Takeover Effects

Certain provisions of our Certificate of Incorporation and Bylaws may be deemed to have an anti-takeover effect.

Advance Notice Requirements for Stockholder Proposals and Director Nominations. Our Bylaws provide advance notice procedures for stockholders seeking to bring business before our annual meeting of stockholders or to nominate candidates for election as directors at our annual meeting of stockholders and specify certain requirements regarding the form and content of a stockholder's notice. These provisions might preclude our stockholders from bringing matters before our annual meeting of stockholders or from making nominations for directors at our annual meeting of stockholders if the proper procedures are not followed.

Proxy Access for Director Nominations. Our Bylaws permit a stockholder or group of stockholders (up to 20) who have owned at least three percent of Chevron Common Stock for at least three years to submit director nominees (up to the greater of two nominees or 20 percent of the Board) for inclusion in our Proxy Statement; provided that the nominating stockholder(s) have satisfied the requirements specified in our Bylaws.

Additional Authorized Shares of Capital Stock. The additional shares of authorized Common Stock and Preferred Stock available for issuance under our Certificate of Incorporation, including shares of our Series A Participating Preferred Stock, could be issued at such times, under such circumstances, and with such terms and conditions as to impede a change in control.

Change in Control Benefit Protection. Our Bylaws provide that Chevron and one or more of its subsidiaries may maintain benefit plans that provide for payments or other benefits or protections conditioned party or solely upon the occurrence of a change in control, that Chevron shall cause any surviving corporation to assume any such obligations of such benefit plans and make effective provision therefore, and that such benefit plans shall not be amended except in accordance with their terms.

Prohibition on Actions by Unanimous Written Consent. As described in "Other Rights and Actions" above, our Certificate of Incorporation provides that certain stockholder actions may not be effected except at an annual or special meeting by the vote required for the taking of such action.

Transfer Agent and Registrar

Computershare is the transfer agent and registrar for our Common Stock.

Listing

Our Common Stock is traded on The New York Stock Exchange under the trading symbol "CVX."

SUMMARY OF CHEVRON INCENTIVE PLAN AWARD CRITERIA

The Chevron Incentive Plan (“CIP”) is designed to recognize annual performance achievement. Annual operating and financial results figure prominently into this assessment, along with demonstrated progress on key business initiatives. Individual leadership is also recognized through this award. The award is delivered as an annual cash bonus based on a percentage of each participant’s base salary. Participants include Chevron’s named executive officers (“NEOs”). The CIP award for years beginning January 1, 2020, is calculated as follows:

Corporate Performance Rating	X	Individual Bonus Component (salary x individual bonus percentage)
-------------------------------------	----------	-----------------------------------------------------------------------------

The Management Compensation Committee of the Board of Directors (the “Committee”) has capped the CIP award at 200 percent of target for each pay grade.

Corporate Performance Rating. After the end of the performance year, the Committee sets the Corporate Performance Rating. This rating reflects the Committee’s overall assessment of Chevron’s performance for that year, based on a range of measures used to evaluate performance against business plan (“Plan”) in four broad categories, which are weighted: financials; capital management; operating performance; and health, environmental and safety. When determining the Corporate Performance Rating, the Committee may apply discretion when assessing Chevron’s absolute performance against Plan and Chevron’s performance relative to competitors. The minimum Corporate Performance Rating is zero and the maximum is 200 percent.

Individual Bonus Component: The Individual Bonus Component is determined by multiplying a NEOs salary by a bonus percentage, as determined by the Committee and described further below:

- Before the beginning of each performance year, for each NEO, the Committee establishes a target as a percentage of the NEO’s base salary, which is set with reference to target opportunities found across Chevron’s Oil Industry Peer Group. The Committee then establishes an individual opportunity range (“Individual Opportunity Range”), which for the 2020 performance year, the Committee set as 75 to 125 percent of the target. All CIP participants in the same salary grade have the same target and Individual Opportunity Range, which provides for internal equity and consistency.
- At the end of the performance period, the Committee determines the Individual Bonus Component for each NEO by selecting a percentage within such NEO’s Individual Opportunity Range based on an assessment of individual performance. In making this assessment, the Committee uses its judgment in analyzing the individual performance of each NEO, his or her enterprise and business unit leadership, and how the business units reporting to the NEO performed. Under extraordinary circumstances, the bonus percentage may be adjusted upward or downward, including to zero percent, for a particular performance year for any CIP participant at the sole discretion of the Committee.

Chevron’s chief executive officer makes recommendations to the Committee as to the target for each of our other NEOs. The MCC makes a recommendation to the independent Directors of the Board of Directors as to the target for Chevron’s chief executive officer.

Additional information concerning the CIP, the annual CIP awards for each of Chevron’s NEOs and our Oil Industry Peer Group can be found in Chevron’s annual Proxy Statement.

Chevron Corporation
Long-Term Incentive Plan Award
Stock Appreciation Rights



1. NOTICE OF STOCK APPRECIATION RIGHTS AWARD.

You have been granted Stock Appreciation Rights, subject to the terms and conditions of the Long-Term Incentive Plan (“Plan”) and this Award agreement. By accepting this Stock Appreciation Rights Award, you agree to all terms and conditions of the Plan, its Rules, and any provisions within this agreement. In the event of any conflict between the provisions of this agreement and the terms of the Plan or Rules, the terms of the Plan and/or Rules shall govern. Defined terms that are not defined herein shall have the meaning ascribed to them in the Plan or Rules. For a copy of the plan documents, go to the Executive Plans website, the Global Executive Plans website, or contact the Executive Compensation Group at [email address] or [phone number].

1.1 NAME OF EMPLOYEE:

1.2 GRANT DATE:

1.3 NUMBER OF STOCK APPRECIATION RIGHTS GRANTED:

1.4 EXERCISE PRICE PER SHARE:

1.5 VESTING SCHEDULE. Subject to the Participant’s continued service on each vesting date, the Stock Appreciation Rights Award shall vest as follows:

- (i) One third (1/3) of the Stock Appreciation Rights Award shall vest on [DATE]
- (ii) One third (1/3) of the Stock Appreciation Rights Award shall vest on [DATE]
- (iii) The remaining one third (1/3) of the Stock Appreciation Rights Award shall vest on [DATE]

1.6 EXPIRATION DATE: Unless otherwise described herein and provided you remain employed by the Corporation, your vested Stock Appreciation Rights may be exercised until [DATE], the tenth anniversary of the Grant Date. If the expiration date falls on a day that the New York Stock Exchange (NYSE) is closed, Stock Appreciation Rights may be exercised only up until the last day that the NYSE is open immediately prior to the Expiration Date.

2. TERMS AND CONDITIONS OF STOCK APPRECIATION RIGHTS AWARD.

2.1 EFFECT OF TERMINATION ON VESTING AND EXERCISE PERIOD. Termination of employment impacts your Stock Appreciation Rights Award’s Vesting Schedule and Expiration Date.

a. Termination in a Non-European Union Payroll Country

If you are on a non-European Union country’s payroll at Termination of employment, your Stock Appreciation Rights Award is affected as follows.

- i. If your employment Terminates prior to [DATE] of the year following the Grant Date, then all Stock Appreciation Rights will be forfeited as of your date of Termination.
- ii. If your employment Terminates on or after [DATE] of the year following the Grant Date and if, upon Termination, you are at least age 65, have at least 90 points (sum of age and service at Termination), or have retired due to Mandatory Retirement, then one hundred percent (100%) of the Stock Appreciation Rights Award will vest as of your date of Termination. The vested portion of your Stock Appreciation Rights Award will be exercisable until the Expiration Date as described in Section 1.6.
- iii. If your employment Terminates on or after [DATE] of the year following the Grant Date and if, upon Termination you are at least age 60 or have at least 75 points (sum of age and service at Termination), then a portion of the Stock Appreciation Rights Award will vest as follows: the vested portion of your Stock Appreciation Rights Award is determined by multiplying the number of Stock Appreciation Rights granted by the number of completed months from the Grant Date to your termination date, up to a maximum of 36 months, divided by 36 months. The unvested portion of your Stock Appreciation Rights Award will be forfeited as of your date of Termination. The vested portion of your Stock Appreciation Rights Award will be exercisable until the earlier of the last day that the NYSE is open that is no more than five years after your Termination date or the Expiration Date as described in Section 1.6.

- iv. If your employment Terminates on or after [DATE] of the year following the Grant Date and if, upon Termination you are less than age 60 or have less than 75 points (sum of age and service at Termination), then the unvested portion of your Stock Appreciation Rights Award will be forfeited as of your date of Termination. The vested portion of your Stock Appreciation Rights Award will be exercisable until the earlier of the last day that the NYSE is open that is no more than 180 days after your termination date or the Expiration Date as described in Section 1.6.
- v. Notwithstanding the foregoing, one hundred percent (100%) of the Stock Appreciation Rights Award will vest if you Terminate employment after a Change in Control and are eligible for a severance pay benefit under the Chevron Corporation Change in Control Surplus Employee Severance Program for LTIP Eligible Participants in Salary Grades 43 and Below, as may be amended. The vested portion of your Stock Appreciation Rights Award will be exercisable until the Expiration Date as described in Section 1.6.

b. Termination in a European Union Payroll¹ Country

If you are on a European Union country's payroll at Termination of employment, your Stock Appreciation Rights Award is affected as follows.

- i. If your employment Terminates prior to [DATE] of the year following the Grant Date, then all Stock Appreciation Rights will be forfeited as of your date of Termination.
- ii. If your employment Terminates on or after [DATE] of the year following the Grant Date and if, upon Termination, you have at least 30 years of service: Your Stock Appreciation Rights Award will continue to vest according to the Vesting Schedule as described under Section 1.5. The vested portion of your Stock Appreciation Rights Award will be exercisable until the Expiration Date as described in Section 1.6.
- iii. If your employment Terminates on or after [DATE] of the year following the Grant Date and if, upon Termination you have at least 25 years of service but less than 30 years of service, then: the unvested Stock Appreciation Rights will be forfeited as of your date of Termination. The vested portion of your Stock Appreciation Rights Award will be exercisable until the earlier of, the last day that the NYSE is open that is no more than five years after your Termination date or the Expiration Date as described in Section 1.6.
- iv. If your employment Terminates on or after [DATE] of the year following the Grant Date and if, upon Termination you have less than 25 years of service, then any unvested Stock Appreciation Rights are forfeited as of your date of Termination. The vested portion of your Stock Appreciation Rights Award will be exercisable until the earlier of the last day that the NYSE is open that is no more than 180 days after your termination date or, the Expiration Date as described in Section 1.6.
- v. Notwithstanding the foregoing, one hundred percent (100%) of the Stock Appreciation Rights Award will vest if you Terminate employment after a Change in Control and are eligible for a severance pay benefit under the Chevron Corporation Change in Control Surplus Employee Severance Program for LTIP Eligible Participants in Salary Grades 43 and Below, as may be amended. The vested portion of your Stock Appreciation Rights Award will be exercisable until the Expiration Date as described in Section 1.6.

2.2 DISABILITY. For purposes of the Vesting Schedule and the Expiration Date of your Stock Appreciation Rights Award, you are deemed to have Terminated upon the earlier of twenty-nine (29) months after the commencement of long-term disability benefits under a plan or program sponsored by the Corporation, or the date you fail to qualify, or no longer qualify for such long-term disability benefits, provided that you do not return to active employment with the Corporation at that time.

2.3 FAILURE TO EXERCISE. Unexercised Stock Appreciation Rights Awards will be forfeited upon the market close of the NYSE on the Expiration Date of the Grant.

2.4 METHOD OF EXERCISE. You may exercise the vested portion of your Stock Appreciation Rights Award under the SAR exercise method. For more information, please refer to "Exercise Choices and Examples" on the Global Executive Plans website.

2.5 NO DEFERRAL. You may not defer payment of proceeds as a result of the exercise of your Stock Appreciation Rights Award.

¹ As defined in the LTIP Rules as of the date of termination.

- 2.6 MISCONDUCT.** Stock Appreciation Rights Awards may be forfeited for Misconduct as defined in the Plan, and the Corporation may demand repayment of amounts received upon exercise on or after the date of the Misconduct. See the terms of the Plan for additional information.
- 2.7 TAXATION.** You are responsible for all taxes with respect to the Stock Appreciation Rights Award. The Corporation makes no guarantees regarding the tax treatment of your Award and the tax consequences of Stock Appreciation Rights Awards vary, and depending on the country's laws that govern this Stock Appreciation Rights Award, taxation can be triggered upon events such as the grant, vest, and/or exercise of such Stock Appreciation Rights Award. Consult the prospectus or prospectus supplement and your tax advisor for more information regarding the tax consequences of your Stock Appreciation Rights Award. For a copy of the prospectus or prospectus supplement, go to Executive Plans website or the Global Executive Plans website.
- 2.8 ADJUSTMENTS.** In the event of any change in the outstanding shares of Common Stock by reason of any stock dividend or split, recapitalization, reclassification, merger, consolidation, or other similar corporate change, the number of Stock Appreciation Rights and the Exercise Price of the Stock Appreciation Rights Award under this agreement shall be adjusted, as appropriate.
- 2.9 NON-TRANSFERABILITY OF AWARD.** You are not permitted to sell, transfer, pledge, assign or encumber this Stock Appreciation Rights Award during your lifetime. Notwithstanding the foregoing, this Stock Appreciation Rights Award may be transferred or assigned after your death to your beneficiary.
- 2.10 BENEFICIARY DESIGNATION.** You may designate a beneficiary for your Stock Appreciation Rights Award on the Benefit Connection website. Benefit Connection can be accessed on the Chevron U.S. Benefits website [WEBSITE LINK]. Non-U.S. payroll employees may download a Beneficiary Designation form from the Global Executive Plans website.
- 2.11 NO RIGHT TO CONTINUED EMPLOYMENT.** The granting of the Stock Appreciation Rights Award shall impose no obligation on the Corporation or its affiliate to continue your employment.
- 2.12 RIGHTS AS A STOCKHOLDER.** You will have none of the rights of a stockholder of the Corporation with respect to the Stock Appreciation Rights Award.
- 2.13 AMENDMENT.** This Award agreement may not be altered, modified or amended except by written instrument signed by both parties and in accordance with the terms of the Plan.

SUBSIDIARIES OF CHEVRON CORPORATION¹
At December 31, 2019

Name of Subsidiary	State, Province or Country in Which Organized
Cabinda Gulf Oil Company Limited	Bermuda
Chevron Argentina S.R.L.	Argentina
Chevron Australia Pty Ltd.	Australia
Chevron Australia Holdings Pty Ltd.	Australia
Chevron Canada Limited	Canada
Chevron Global Energy Inc.	Delaware
Chevron Global Technology Services Company	Delaware
Chevron Investments Inc.	Delaware
Chevron LNG Shipping Company Limited	Bermuda
Chevron Malampaya LLC	Delaware
Chevron Nigeria Limited	Nigeria
Chevron Overseas Company	Delaware
Chevron (Overseas) Holdings Limited	Delaware
Chevron Overseas Petroleum Limited	Bahamas
Chevron Petroleum Company	New Jersey
Chevron Petroleum Limited	Bermuda
Chevron Petroleum Nigeria Limited	Nigeria
Chevron Philippines Inc.	Philippines
Chevron Thailand Exploration and Production, Ltd.	Bermuda
Chevron (Thailand) Limited	Bahamas
Chevron Thailand LLC	Delaware
Chevron U.S.A. Holdings Inc.	Delaware
Chevron U.S.A. Inc.	Pennsylvania
Chevron Venezuela Holdings LLC	Delaware
PT Chevron Pacific Indonesia	Indonesia
Saudi Arabian Chevron Inc.	Delaware
Star Petroleum Refining Public Company Limited	Thailand
Texaco Inc.	Delaware
Texaco Overseas Holdings Inc.	Delaware
Texaco Venezuela Holdings (I) Company	Delaware
Union Oil Company of California	California
Unocal Corporation	Delaware
Unocal International Corporation	Nevada

¹ All of the subsidiaries in the above list are wholly owned, either directly or indirectly, by Chevron Corporation. Certain subsidiaries are not listed since, considered in the aggregate as a single subsidiary, they would not constitute a significant subsidiary at December 31, 2019.

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We hereby consent to the incorporation by reference in the Registration Statement on Form S-3 (No. 333-224637) of Chevron Corporation, and the incorporation by reference in the Registration Statement on Form S-8 (Nos. 333-212894, 333-212893, 333-202203, 333-190422, 333-190421, 333-172428, 333-171066, 333-152846, 333-128734, 333-128733, 333-127570, 333-127569, 333-127568, 333-127567, 333-127566, 333-127565, 333-127564, 333-127563, 333-127561, 333-127560, 333-127559, 333-127558, 333-122121, 333-26731, 333-105136, 333-102269, 333-72672, 333-46261, 333-21805, 333-21807, 333-21809, 333-02011) of Chevron Corporation of our report dated February 21, 2020 relating to the financial statements and financial statement schedules and the effectiveness of internal control over financial reporting, which appears in this Form 10-K.

/s/ PricewaterhouseCoopers LLP

San Francisco, California
February 21, 2020

CONSENT OF INDEPENDENT AUDITOR

We hereby consent to the incorporation by reference in the Registration Statement on Form S-3 (No. 333-224637) of Chevron Corporation, and the incorporation by reference in the Registration Statement on Form S-8 (Nos. 333-212894, 333-212893, 333-202203, 333-190422, 333-190421, 333-172428, 333-171066, 333-152846, 333-128734, 333-128733, 333-127570, 333-127569, 333-127568, 333-127567, 333-127566, 333-127565, 333-127564, 333-127563, 333-127561, 333-127560, 333-127559, 333-127558, 333-122121, 333-26731, 333-105136, 333-102269, 333-72672, 333-46261, 333-21805, 333-21807, 333-21809, 333-02011) of Chevron Corporation of our report dated February 20, 2020 relating to the financial statements of Tengizchevroil LLP, which appears in this Form 10-K.

/s/ PricewaterhouseCoopers LLP

Almaty, Kazakhstan
February 21, 2020

POWER OF ATTORNEY

WHEREAS, Chevron Corporation, a Delaware corporation (the "Corporation"), contemplates filing with the United States Securities and Exchange Commission in Washington, D.C., under the provisions of the Securities Exchange Act of 1934, as amended, and the regulations promulgated thereunder, an Annual Report on Form 10-K for the year ended December 31, 2019;

WHEREAS, the undersigned is an officer or director, or both, of the Corporation;

NOW, THEREFORE, the undersigned hereby constitutes and appoints MARY A. FRANCIS, CHRISTOPHER A. BUTNER, CHRISTINE L. CAVALLO and KARI H. ENDRIES, or any of them, his or her attorneys-in-fact and agents, with full power of substitution and resubstitution, for such person and in his or her name, place and stead, in any and all capacities, to sign the aforementioned Annual Report on Form 10-K (and any and all amendments thereto) and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully as to all intents and purposes he or she might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents, or their substitutes, may lawfully do and cause to be done by virtue hereof.

IN WITNESS WHEREOF, the undersigned has hereunto set his or her hand as of this 29th day of January, 2020.

/s/ Wanda M. Austin

Wanda M. Austin

/s/ John B. Frank

John B. Frank

/s/ Alice P. Gast

Alice P. Gast

/s/ Enrique Hernandez, Jr.

Enrique Hernandez, Jr.

/s/ Charles W. Moorman IV

Charles W. Moorman IV

/s/ Dambisa F. Moyo

Dambisa F. Moyo

/s/ Debra Reed-Klages

Debra Reed-Klages

/s/ Ronald D. Sugar

Ronald D. Sugar

/s/ D. James Umpleby III

D. James Umpleby III

/s/ Michael K. Wirth

Michael K. Wirth

**RULE 13a-14(a)/15d-14(a) CERTIFICATION PURSUANT TO
SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Michael K. Wirth, certify that:

1. I have reviewed this Annual Report on Form 10-K of Chevron Corporation;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

/s/ MICHAEL K. WIRTH

Michael K. Wirth
*Chairman of the Board and
Chief Executive Officer*

Dated: February 21, 2020

**RULE 13a-14(a)/15d-14(a) CERTIFICATION PURSUANT TO
SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Pierre R. Breber, certify that:

1. I have reviewed this Annual Report on Form 10-K of Chevron Corporation;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

/s/ PIERRE R. BREBER

Pierre R. Breber
Vice President and
Chief Financial Officer

Dated: February 21, 2020

**RULE 13a-14(b)/15d-14(b) CERTIFICATION PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002 (18 U.S.C. SECTION 1350)**

In connection with the Annual Report on Form 10-K of Chevron Corporation (the "Company") for the period ended December 31, 2019, as filed with the U.S. Securities and Exchange Commission on the date hereof (the "Report"), I, Michael K. Wirth, Chairman and Chief Executive Officer of the Company, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to my knowledge:

- (1) the Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

/s/ MICHAEL K. WIRTH

Michael K. Wirth
*Chairman of the Board and
Chief Executive Officer*

Dated: February 21, 2020

**RULE 13a-14(b)/15d-14(b) CERTIFICATION PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002 (18 U.S.C. SECTION 1350)**

In connection with the Annual Report on Form 10-K of Chevron Corporation (the “Company”) for the period ended December 31, 2019, as filed with the U.S. Securities and Exchange Commission on the date hereof (the “Report”), I, Pierre R. Breber, Vice President and Chief Financial Officer of the Company, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to my knowledge:

- (1) the Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

/s/ PIERRE R. BREBER

Pierre R. Breber
*Vice President and
Chief Financial Officer*

Dated: February 21, 2020

DEFINITIONS OF SELECTED ENERGY TERMS**Barrels of oil-equivalent (BOE)**

A unit of measure to quantify crude oil, natural gas liquids and natural gas amounts using the same basis. Natural gas volumes are converted to barrels on the basis of energy content. See *oil-equivalent gas* and *production*.

Development

Drilling, construction and related activities following discovery that are necessary to begin production and transportation of crude oil and natural gas.

Entitlement effects

The impact on Chevron's share of net production and net proved reserves due to changes in crude oil and natural gas prices, and spending levels, between periods. Under PSCs and variable-royalty provisions of certain agreements, price and spend variability can increase or decrease royalty burdens and/or volumes attributable to the company. For example, at higher prices, fewer volumes are required for Chevron to recover its costs under certain PSCs. Also under certain PSCs, Chevron's share of future profit oil and/or gas is reduced once specified contractual thresholds are met, such as a cumulative return on investment.

Exploration

Searching for crude oil and/or natural gas by utilizing geologic and topographical studies, geophysical and seismic surveys, and drilling of wells.

Gas-to-liquids (GTL)

A process that converts natural gas into high-quality liquid transportation fuels and other products.

Liquefied natural gas (LNG)

Natural gas that is liquefied under extremely cold temperatures to facilitate storage or transportation in specially designed vessels.

Liquefied petroleum gas (LPG)

Light gases, such as butane and propane, that can be maintained as liquids while under pressure.

Oil-equivalent gas (OEG)

The volume of natural gas needed to generate the equivalent amount of heat as a barrel of crude oil. Approximately 6,000 cubic feet of natural gas is equivalent to one barrel of crude oil.

Oil sands

Naturally occurring mixture of bitumen – a heavy, viscous form of crude oil – water, sand and clay. Using hydroprocessing technology, bitumen can be refined to yield *synthetic oil*.

Production

Total production refers to all the crude oil (including synthetic oil), natural gas liquids and natural gas produced from a property. *Net production* is gross production minus both royalties paid to landowners and a government's agreed-upon share of production under a *production-sharing contract*. *Liquids production* refers to crude oil, condensate, natural gas liquids and synthetic oil volumes. *Oil-equivalent production* is the sum of the barrels of *liquids* and the oil-equivalent barrels of natural gas produced. See *barrels of oil-equivalent* and *oil-equivalent gas*.

Production-sharing contract (PSC)

An agreement between a government and a contractor (generally an oil and gas company) whereby production is shared between the parties in a prearranged manner. The contractor typically incurs all exploration, development and production costs, which are subsequently recoverable out of an agreed-upon share of any future PSC production, referred to as cost recovery oil and/or gas. Any remaining production, referred to as profit oil and/or gas, is shared between the parties on an agreed-upon basis as stipulated in the PSC. The government may also retain a share of PSC production as a royalty payment, and the contractor typically owes income tax on its portion of the profit oil or gas. The contractor's share of PSC oil and/or gas production and reserves varies over time, as it is dependent on prices, costs and specific PSC terms.

Reserves

Crude oil or natural gas contained in underground rock formations called reservoirs and saleable hydrocarbons extracted from oil sands, shale, coalbeds or other nonrenewable natural resources that are intended to be upgraded into synthetic oil or gas. *Net proved reserves* are the estimated quantities that geoscience and engineering data demonstrate with reasonable certainty to be economically producible in the future from known reservoirs under existing economic conditions, operating methods and government regulations, and exclude royalties and interests owned by others. Estimates change as additional information becomes available. *Oil-equivalent reserves* are the sum of the liquids reserves and the oil-equivalent gas reserves. See *barrels of oil-equivalent* and *oil-equivalent gas*. The company discloses only net proved reserves in its filings with the U.S. Securities and Exchange Commission.

Shale gas

Natural gas produced from shale rock formations where the gas was sourced from within the shale itself. Shale is very fine-grained rock, characterized by low porosity and extremely low permeability. Production of shale gas normally requires formation stimulation such as the use of hydraulic fracturing (pumping a fluid-sand mixture into the formation under high pressure) to help produce the gas.

Synthetic oil

A marketable and transportable hydrocarbon liquid, resembling crude oil, that is produced by upgrading highly viscous or solid hydrocarbons, such as extra-heavy crude oil or *oil sands*.

Tight oil

Liquid hydrocarbons produced from shale (also referred to as shale oil) and other rock formations with extremely low permeability. As with *shale gas*, production from tight oil reservoirs normally requires formation stimulation such as hydraulic fracturing.

DEFINITIONS OF SELECTED FINANCIAL TERMS**Earnings**

The term *earnings* is net income attributable to Chevron Corporation as presented on the Consolidated Statement of Income.

Return on capital employed (ROCE)

ROCE is calculated by dividing *earnings* (adjusted for after-tax interest expense and noncontrolling interests) by the average of total debt, noncontrolling interests and Chevron Corporation stockholders' equity for the year.

Return on stockholders' equity (ROSE)

Return on stockholders' equity is *earnings* divided by average Chevron Corporation stockholders' equity. Average Chevron Corporation stockholders' equity is computed by averaging the sum of the beginning-of-year and end-of-year balances.

Free Cash Flow

Free cash flow is calculated as the cash provided by operating activities less cash capital expenditures, which represents the cash available to creditors and investors after investing in the business.

Debt Ratio

The ratio of total debt (short-term plus long-term) as a percentage of total debt plus Chevron Corporation Stockholders' Equity, which indicates the company's leverage.

Net Debt Ratio

The ratio of total debt less cash and cash equivalents, time deposits, and marketable securities as a percentage of total debt less cash and cash equivalents, time deposits, and marketable securities, plus Chevron Corporation Stockholders' Equity, which indicates the company's leverage, net of its cash balances.

TENGIZCHEVROIL LLP
CONSOLIDATED FINANCIAL STATEMENTS
(prepared in accordance with
generally accepted accounting principles
in the United States of America)
For the fiscal year ended December 31, 2019

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Report of Independent Auditors

To the Partners of Tengizchevroil LLP

We have audited the accompanying consolidated financial statements of Tengizchevroil LLP and its subsidiaries, which comprise the consolidated balance sheet as of December 31, 2019 and 2018, and the related consolidated statements of income, of equity and of cash flows for the years then ended.

Management's Responsibility for the Consolidated Financial Statements

Management is responsible for the preparation and fair presentation of the consolidated financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of consolidated financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express an opinion on the consolidated financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the consolidated financial statements. The procedures selected depend on our judgment, including the assessment of the risks of material misstatement of the consolidated financial statements, whether due to fraud or error. In making those risk assessments, we consider internal control relevant to the Company's preparation and fair presentation of the consolidated financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of Tengizchevroil LLP and its subsidiaries as of December 31, 2019 and 2018, and the results of their operations and their cash flows for the years then ended in accordance with accounting principles generally accepted in the United States of America.

/s/ PricewaterhouseCoopers LLP

Almaty, Kazakhstan
February 20, 2020

Tengizchevroil LLP - Consolidated Statement of Income

Thousands of dollars

	Year ended December 31		
	2019	2018	Unaudited 2017
Revenues and Other Income			
Sales and other operating revenues to related parties	\$ 6,839,529	\$ 9,177,474	\$ 6,167,285
Sales and other operating revenues to other parties	9,441,212	8,082,909	7,195,464
Total Sales and Other Operating Revenues	16,280,741	17,260,383	13,362,749
Other income	28,390	55,145	59,187
Total Revenues and Other Income	16,309,131	17,315,528	13,421,936
Costs and Other Deductions			
Production and operating expenses	6,164,912	5,774,749	4,969,185
Depreciation, depletion and amortization	1,738,124	1,415,633	1,281,370
Total Costs and Other Deductions	7,903,036	7,190,382	6,250,555
Income Before Income Tax Expense	8,406,095	10,125,146	7,171,381
Income Tax Expense	2,521,829	3,037,543	2,151,414
Net Income	\$ 5,884,266	\$ 7,087,603	\$ 5,019,967

Tengizchevroil LLP - Consolidated Balance Sheet

Thousands of dollars

	Year ended December 31	
	2019	2018
Assets		
Cash and cash equivalents	\$ 117,954	\$ 530,620
Accounts receivable, net of allowances	1,391,801	1,007,200
Inventories	437,487	379,111
Prepaid expenses and other current assets	538,606	759,984
Total Current Assets	2,485,848	2,676,915
Long-term receivables, net	40,483	38,639
Properties, plant and equipment, net	44,205,701	35,529,730
Total Assets	\$ 46,732,032	\$ 38,245,284
Liabilities and Equity		
Accounts payable	\$ 632,239	491,752
Accrued liabilities	2,244,629	2,769,899
Income tax payable	286,112	229,046
Total Current Liabilities	3,162,980	3,490,697
Long-term debt	6,700,000	4,000,000
Deferred tax liabilities	2,416,201	2,366,066
Other non-current obligations	383,273	203,209
Total Liabilities *	\$ 12,662,454	\$ 10,059,972
Charter fund	50,000	50,000
Retained earnings	34,019,578	28,135,312
Total Equity	34,069,578	28,185,312
Total Liabilities and Equity	\$ 46,732,032	\$ 38,245,284

* Refer to Note 13, "Other Commitments and Contingencies" on page T-14

Tengizchevroil LLP - Consolidated Statement of Equity

Thousands of dollars

	Year ended December 31		
	2019	2018	Unaudited 2017
Charter Fund			
Balance at January 1	\$ 50,000	\$ 50,000	\$ 50,000
Changes during period	—	—	—
Balance at December 31	50,000	50,000	50,000
Retained Earnings			
Balance at January 1	28,135,312	22,147,709	18,527,742
Net income	5,884,266	7,087,603	5,019,967
Dividends	—	(1,100,000)	(1,400,000)
Balance at December 31	34,019,578	28,135,312	22,147,709
Total Equity	\$ 34,069,578	\$ 28,185,312	\$ 22,197,709

Tengizchevroil LLP - Consolidated Statement of Cash Flows

Thousands of dollars

	Year ended December 31		
	2019	2018	Unaudited 2017
Operating Activities			
Net Income	\$ 5,884,266	\$ 7,087,603	\$ 5,019,967
Adjustments			
Depreciation, depletion and amortization	1,738,124	1,415,633	1,281,370
Deferred income tax	50,135	106,177	45,623
Net decrease (increase) in inventory	(58,376)	63,866	135,185
Net decrease (increase) in accounts receivable	(384,601)	(8,482)	(249,804)
Net decrease (increase) in prepaid, other current assets	267,378	74,202	(558,179)
Net decrease (increase) in long-term receivables	(1,844)	12,402	3,432
Net increase (decrease) in tax payable	57,066	(8,797)	169,868
Net increase (decrease) in accounts payable	140,487	64,786	164,031
Net increase (decrease) in accrued liabilities	(525,270)	718,851	(589,185)
Settlement of asset retirement obligations	(10,267)	(12,580)	(12,933)
Net Cash Provided by Operating Activities	7,157,098	9,513,661	5,409,375
Investing Activities			
Capital expenditures	(10,223,764)	(9,925,391)	(7,365,424)
Net Cash Used for Investing Activities	(10,223,764)	(9,925,391)	(7,365,424)
Financing Activities			
Proceeds from borrowings	2,700,000	—	—
Dividends	—	(1,310,000)	(1,190,000)
Net Cash Provided by (Used for) Financing Activities	2,700,000	(1,310,000)	(1,190,000)
Net Change in Cash, Cash Equivalents and Restricted Cash	(366,666)	(1,721,730)	(3,146,049)
Cash, Cash Equivalents and Restricted Cash at January 1	676,620	2,398,350	5,544,399
Cash, Cash Equivalents and Restricted Cash at December 31	\$ 309,954	\$ 676,620	\$ 2,398,350

1. Organization

Tengizchevroil, a limited liability partnership (hereinafter “the Partnership”), was formed on April 6, 1993, under the laws of the Republic of Kazakhstan (hereinafter “the Republic”). The formation of the Partnership and the management and operational framework within which it must conduct its activities were dictated by certain agreements and subsequent amendments (the “Partnership Agreements”). The term of the Partnership is 40 years and can be extended by agreement among the partners. If partners agree to extend the Partnership, then the Partnership can apply to the Republic for the extension of its production license. The Partnership may be terminated under certain conditions, including by mutual agreement among the partners.

The participatory interests of the partnership as of December 31, 2019, 2018 and 2017 are Chevron Overseas Company (“Chevron Overseas”) (50%), ExxonMobil Kazakhstan Ventures Inc. (“ExxonMobil Kazakhstan”) (25%), National Company KazMunaiGas (“KazMunaiGas”) (20%), and LUKARCO B.V. (“LUKARCO”) (5%).

Principal Activity

The Partnership is developing the Tengiz and Korolev crude oil fields in western Kazakhstan under a concession agreement that expires in 2033. The principal objective of the Partnership is to effectively and profitably develop hydrocarbon resources and in doing so to explore for, appraise, develop, produce, process, store, transport, export and sell hydrocarbon products, and sulfur.

Subsidiaries

The principal activities of the Partnership’s subsidiaries as of December 31, 2019 are as follows:

Subsidiary	Place of incorporation	% held	Principal activity	Date of formation
Tengizchevroil International Bermuda Limited	Bermuda Islands	100	Representation of the Partnership’s interest in Caspian Pipeline Consortium	September 25, 1997
Tengizchevroil Finance Company S.ar.L.*	Luxembourg	100	Special purpose company for bonds issue	June 18, 2004
Tengizchevroil Finance Company International Ltd	Bermuda Islands	100	Special purpose company for bonds issue	May 12, 2014

* Subsidiary was de-registered from the Luxembourg Trade Register on January 21, 2020

2. Significant Accounting Policies

Basis of Preparation

These consolidated financial statements are prepared in accordance with accounting principles generally accepted in the United States of America (hereinafter “U.S. GAAP”). These U.S. GAAP financial statements are prepared on a different basis to the financial statements that are prepared based on the Partnership’s accounting procedures.

These standards require management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements, and the reported amounts of revenues and expenses during the reporting period. Significant items subject to such estimates and assumptions include the carrying value of oil and gas properties and other property, plant and equipment, asset retirement obligations, and deferred income taxes. Eventual actual amounts could differ from those estimates as circumstances change and additional information becomes known.

Principles of Consolidation

These consolidated financial statements include the financial position and results of the Partnership, controlled subsidiaries of which the Partnership directly or indirectly owns more than 50% of the voting interest, unless non-controlling stockholders have substantive participating rights and variable interest entities where the Partnership is determined to be the primary beneficiary.

Revenue Recognition

All sales and other operating revenues on the Consolidated Statement of Income are derived from the sale of crude oil and other products. Related receivables are included in "Accounts receivable, net of allowances" on the Consolidated Balance Sheet, net of the allowance for doubtful accounts. Each delivery order of crude oil, and other products is accounted for as a separate performance obligation. Revenue is recognized when the performance obligation is satisfied, which typically occurs at the point in time when control of the product transfers to the customer. The delivery transportation is accounted for as a fulfillment cost, not a separate performance obligation. These costs are recognized as operating expenses in the period when revenue for the related commodity is recognized.

Revenue is measured as the amount the Partnership expects to receive in exchange for transferring commodities to the customer. Until market prices become known under terms of the Partnership's contracts, the transaction price included in revenue is based on the Partnership's estimate of the most likely outcome.

Prior to the adoption of Accounting Standards Codification (ASC) 606 on January 1, 2018, revenues were recognized when title passed to customers at which point the risks and rewards of ownership were assumed by the customer and the price was fixed and determinable. The impact of the ASC 606 adoption did not have a material effect on these consolidated financial statements.

Expense Recognition

Costs and expenses are recognized in the period in which such costs are incurred or can first be reasonably estimated, irrespective of when such costs are paid.

Foreign Currency Translation

The Partnership's functional currency and reporting currency is the U.S. dollars. Transactions arising in currencies other than U.S. dollars are translated into U.S. dollars at exchange rates in effect at the date transactions are recorded in the consolidated financial accounts.

Monetary assets and liabilities held in currencies other than U.S. dollars are translated to U.S. dollars at the rates of exchange in effect at the consolidated balance sheet date. Gains and losses on foreign currency remeasurements are included in current period income under "Other income".

Cash and Cash Equivalents

Cash and cash equivalents include all highly liquid investments with an original maturity less than three months.

Restricted Cash

Restricted cash represents cash that is restricted by agreements with third parties for special purposes.

Accounts Receivable

Trade and other receivables are recorded at their transaction amounts less allowance for doubtful accounts. Allowance for doubtful accounts are recorded to the extent that there is likelihood that any of the amounts due will not be collected.

Inventories

Crude oil and liquefied petroleum gas (hereinafter "LPG") are valued at the lower of cost or market value. The cost is determined based on the last-in-first-out method of accounting for inventory (hereinafter "LIFO"). Cost includes direct production expenses and overhead incurred in bringing the inventories to their present condition and location. Materials and supplies are generally stated at cost or net realizable value.

Properties, Plant and Equipment

The successful efforts method is used for crude oil and natural gas exploration and production activities. All costs for development wells, related plant and equipment, proved mineral interests in crude oil and natural gas properties, and related asset retirement obligation (ARO) assets are capitalized. Costs of exploratory wells are capitalized pending determination of whether the wells found proved reserves.

Costs of wells that are assigned proved reserves remain capitalized. Costs are also capitalized for exploratory wells that have found crude oil and natural gas reserves even if the reserves cannot be classified as proved when the drilling is completed, provided the exploratory well has found a sufficient quantity of reserves to justify its completion as a producing well and the Partnership is making sufficient progress assessing the reserves and the economic and operating viability of the project. Other exploratory expenditures, including geological and geophysical costs are expensed as incurred.

Depreciation, depletion and amortization of capitalized costs of oil and gas properties is calculated using the unit-of-production method based upon proved reserves for the cost of property acquisitions and proved developed reserves for exploration and development costs.

Production and related overhead costs are expensed as incurred.

Depreciation of assets not directly associated with crude oil production is calculated on a straight-line basis over the economic lives of such assets.

Expenditures for maintenance (including those for planned major maintenance projects), repairs and minor renewals to maintain facilities in operating condition are generally expensed as incurred. Major replacements and renewals are capitalized.

Gains or losses are not recognized for normal retirements of properties, plant and equipment subject to composite group amortization or depreciation. Gains or losses from abnormal retirements are recorded as expenses and from sales as "Other income."

Asset Retirement Obligations

The fair value of a liability for an asset retirement obligation is recorded as both an asset and liability when there is a legal obligation associated with the retirement of a tangible long-lived asset and the liability can be reasonably estimated. The legal obligation to perform the asset retirement activity is unconditional, even though uncertainty may exist about the timing and/or method of settlement that may be beyond the Partnership's control. This uncertainty about the timing and/or method of settlement is factored into the measurement of the liability when sufficient information exists to reasonably estimate fair value. Recognition of the ARO includes: (1) the present value of a liability and offsetting asset, (2) the subsequent accretion of that liability and depreciation of the asset, and (3) the periodic review of the ARO liability estimates and discount rates.

Impairment of Long-Lived Assets

Long-lived assets, including oil and gas properties, are assessed for possible impairment whenever events or changes in circumstances indicate that there may be an inability to fully recover the asset's carrying amount. Events that can trigger assessments for possible impairments include write-downs of proved reserves based on field performance, significant decreases in the market value of an asset (including changes to the commodity price forecast), significant change in the extent or manner of use of or a physical change in an asset, and a more-likely-than-not expectation that a long-lived asset or asset group will be sold or otherwise disposed of significantly sooner than the end of its previously estimated useful life. Recoverability of assets to be held and used is measured by a comparison of the carrying amount of an asset to the estimated undiscounted future cash flows expected to be generated. If the carrying amount of an asset exceeds its estimated undiscounted future cash flows, an impairment charge is recognized by writing down the carrying amount to the estimated fair value of the asset, generally determined as discounted future net cash flows. Determination as to whether and how much an asset is impaired involves management estimates on highly uncertain matters, such as future commodity prices, operating expenses, production profiles, and the outlook for global or regional market supply-and-demand conditions for crude oil and natural gas. Assets to be disposed of are separately presented in the balance sheet and reported at the lower of the carrying amount or fair value less costs to sell and are no longer depreciated.

Income Tax

Deferred income tax assets and liabilities are recognized in respect of the future tax consequences attributable to temporary differences between the carrying amounts of existing assets and liabilities for the purposes of the consolidated financial statements and their respective tax bases. Deferred income tax assets and liabilities are measured using enacted tax rates expected to apply to taxable income in the years in which those temporary differences are expected to reverse and the assets are recovered or liabilities settled.

The ultimate realization of deferred income tax assets is dependent upon the generation of future taxable income in the reporting periods in which the originating expenditure becomes deductible. In assessing the realizability of deferred income tax assets, management considers whether it is more likely than not that the deferred income tax assets will be realized. In making this assessment, management considers the scheduled reversal of deferred income tax liabilities, projected future taxable income, and tax planning strategies.

Contingencies

Certain conditions may exist as of the balance sheet date, which may result in losses to the Partnership but the impact of which will only be resolved when one or more future events occur or fail to occur.

If an assessment of a contingency indicates that it is probable that a material loss has been incurred and the amount of the liability can be estimated, then the estimated liability is accrued and charged to the statement of income. If the assessment indicates that a potentially material loss is not probable, but is reasonably possible, or is probable, but cannot be reasonably estimated, then the nature of the contingent liability, together with an estimate of the range of possible loss, is disclosed in the notes to the consolidated financial statements. Loss contingencies considered remote or related to unasserted claims are generally not disclosed unless they involve guarantees, in which case the nature of the guarantee is disclosed.

Environmental Expenditures

Estimated losses from environmental remediation obligations are generally recognized no later than completion of remedial feasibility studies. Losses associated with environmental remediation obligations are accrued when such losses are probable and reasonably estimable. Such accruals are adjusted as further information becomes available or circumstances change. Costs of expected future expenditures for environmental remediation obligations are not discounted to their present value.

Production Related Taxes

Production related taxes are payable to the Republic in accordance with the Partnership Agreements. Production related taxes are expensed in the period in which they are incurred.

New Accounting Standards

Leases (Topic 842). In February 2016, the Financial Accounting Standards Board (FASB) issued Accounting Standards Update (ASU) 2016-02, which becomes effective for the Partnership January 1, 2021. The standard requires that lessees present right-of-use assets and liabilities on the balance sheet. The implementation efforts are focused on accounting policy and disclosure updates and system enhancements necessary to meet the standard's requirements. The effect of the standard on the consolidated financial statements is being evaluated.

Financial Instruments – Credit Losses (Topic 326). In June 2016, the FASB issued ASU 2016-13, which becomes effective for the company January 1, 2023. The standard requires companies to use forward-looking information to calculate credit loss estimates. The Partnership is evaluating the effect of the standard on the consolidated financial statements.

3. Sales and Other Operating Revenues by Product and Destination

	Year ended December 31		
	2019	2018	Unaudited 2017
Crude Oil			
Europe	7,591,818	8,723,120	8,179,549
Asia	7,699,335	7,312,205	4,055,050
Other	65,110	129,740	98,220
Total crude oil revenues	15,356,263	16,165,065	12,332,819
Liquefied Petroleum Gas			
Asia	315,786	353,692	260,143
Europe	119,339	201,620	225,937
Total liquefied petroleum gas revenues	435,125	555,312	486,080
Natural Gas	315,237	271,352	373,628
Sulfur	174,116	268,654	170,222
Total revenues	16,280,741	17,260,383	13,362,749

For the years ended December 31, 2019 and 2018, no customers, other than related parties, had sales that individually exceeded 10% of the Partnership's total sales. Refer to Note 12 on page T-13 for discussion on credit and concentration risk.

4. Income Tax

	Year ended December 31		
	2019	2018	Unaudited 2017
Current expense	2,471,694	2,931,366	2,105,791
Deferred expense	50,135	106,177	45,623
Total income tax	2,521,829	3,037,543	2,151,414

For the years ended December 31, 2019, 2018 and 2017, the effective 30% income tax rate is equal to the income tax rate stated in the Partnership Formation Agreement due to the fact that there are no non-deductible expenses, other permanent differences, or any other factors affecting the rate.

The reported deferred tax balances are composed of the following:

	December 31, 2019	December 31, 2018
Deferred tax liabilities		
Properties, plant and equipment	2,532,398	2,432,667
Total deferred tax liabilities	2,532,398	2,432,667
Deferred tax assets		
Assets retirement obligations	(114,982)	(60,963)
Other liabilities	(1,215)	(5,638)
Total deferred tax assets	(116,197)	(66,601)
Total deferred taxes, net	2,416,201	2,366,066

5. Cash, Cash Equivalents, and Restricted Cash

	December 31, 2019	December 31, 2018
Cash and cash equivalents	117,954	530,620
Restricted cash included in "Prepaid expenses and other current assets"	192,000	146,000
Total cash, cash equivalents, and restricted cash	309,954	676,620

In accordance with the Partnership's expansion financing agreements, a Debt Service Reserve Account (hereinafter "the Account") was established and funded with the Partnership's principal banker in an amount equal to the next scheduled interest, related fees and principal payments on the Notes and other Senior Secured Loan (Note 9 on page T-12). As of December 31, 2019, this account is fully funded with six months of interest payable totaling \$192,000 (2018: \$146,000). Withdrawals from the Account can only be made to the extent that the account balance continues to exceed the next scheduled interest, related fees and principal payments on the Notes and other Senior Secured Loan. The Partnership is entitled to invest the restricted cash held in the Account into interest bearing deposits.

6. Accounts Receivable

	December 31, 2019	December 31, 2018
Trade receivable	1,414,597	1,018,017
Other receivable	102,017	113,676
	1,516,614	1,131,693
Less: Allowance for doubtful accounts	(124,813)	(124,493)
Total accounts receivable, net of allowances	1,391,801	1,007,200

7. Inventories

	December 31, 2019	December 31, 2018
Materials and supplies	418,250	342,610
Crude oil and petroleum products	19,237	36,501
Total inventories	437,487	379,111

The excess of replacement cost over the carrying value of crude oil and petroleum products for which the LIFO method is used was \$384,815 and \$482,586 as of December 31, 2019 and 2018, respectively.

8. Properties, Plant and Equipment

Gross Investment at Cost	December 31, 2019	December 31, 2018
Wells and related facilities	12,322,339	11,152,124
Process plants	7,909,693	7,754,796
Construction in progress	33,005,484	24,621,933
Buildings and land improvements	2,846,972	2,710,690
Other	2,061,431	1,545,990
	58,145,919	47,785,533
Less: Accumulated depreciation, depletion and amortization	(13,940,218)	(12,255,803)
Total properties, plant and equipment, net	44,205,701	35,529,730

The "Construction in progress" balances which includes capitalized interest in the table above primarily relate to the Future Growth Project/Wellhead Pressure Management Project (FGP/WPMP). The WPMP portion is expected to start up in late 2022, with the remaining facilities expected to come online in mid-2023.

The "Accrued liabilities" on the Consolidated Balance Sheet primarily relate to FGP/WPMP project accruals.

9. Long-Term Debt

	December 31, 2019	December 31, 2018
4% Series A bonds	\$ 1,000,000	\$ 1,000,000
4% Chevron loan	2,000,000	2,000,000
4% ExxonMobil loan	1,000,000	1,000,000
Commercial bank facility drawdown	675,000	—
Chevron loan facility drawdown	1,350,000	—
ExxonMobil loan facility drawdown	675,000	—
Total long-term debt	\$ 6,700,000	\$ 4,000,000

For the purposes of funding the FGP/WPMP, the Partnership raised the Secured Debt Obligations in July 2016, whereby Tengizchevroil Finance Company International Ltd ("TFCI Ltd") acts as a Borrower. The Senior Secured Debt Obligations incurred by TFCI Ltd are guaranteed on senior secured basis by the Partnership.

On July 27, 2016 TFCI Ltd issued \$1,000,000 of 4% Series A Bonds to institutional investors ("Series A Bonds"), also taking out pari passu senior secured loans of \$2,000,000 and \$1,000,000 from Chevron and ExxonMobil, respectively, mirroring the terms of Series A Bonds. These Bonds and Loans mature on August 15, 2026 and bear interest rate of 4% per annum.

On July 7, 2016 TFCI Ltd established a \$3,000,000 Commercial Bank Facility from a syndicate of commercial banks ("Commercial Bank Facility"), \$6,000,000 pari passu loan facility from Chevron mirroring the terms of the Commercial Bank Facility and \$3,000,000 pari passu loan facility from ExxonMobil mirroring the terms of the Commercial Bank Facility. This facility matures on July 7, 2021, but it is partially extendable by a further two years at the Partnership's discretion. In 2019, drawdowns on the Commercial Bank Facility, Chevron and ExxonMobil loans totaled \$2,700,000. The weighted-average interest rate on the facility drawdowns in 2019 was 4.35%.

10. Asset Retirement Obligations

The following table indicates the changes to the asset retirement obligations in 2019 and 2018:

	<u>2019</u>	<u>2018</u>
Balance at January 1	\$ 203,209	\$ 186,419
Accretion expense	9,414	8,877
Liabilities settled	(10,267)	(12,580)
Revisions in estimated cash flows	180,917	20,493
Balance at December 31	\$ 383,273	\$ 203,209

In the table above, the amount associated with "Revisions in estimated cash flows" in 2019 primarily reflects wells and facilities brought into service in the year.

Accretion expense is included in the total depreciation, depletion and amortization expense.

11. Equity

The Charter Fund is attributable to the four partners as follows:

	<u>December 31, 2019</u>	<u>December 31, 2018</u>
KazMunaiGas	\$ 10,000	\$ 10,000
Chevron Overseas	25,000	25,000
Exxon Mobil Kazakhstan	12,500	12,500
LUKARCO	2,500	2,500
Total charter fund	\$ 50,000	\$ 50,000

No dividends to the partners were made in 2019. Dividends to the partners of \$1,100,000 and \$1,400,000 were made in 2018 and 2017 respectively. The 2018 dividends in the Consolidated Statement of Cash Flows included \$210,000 withholding tax payable on 2017 distributions, which were outstanding as of December 31, 2017, but paid to the Republic in 2018.

12. Fair Value Measurements and Financial Instruments***Fair Value***

Fair value is defined as 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. Fair value is based on quoted market prices, where available. If listed prices or quotes are not available, fair value is based on models that consider relevant transaction characteristics (such as maturity) and use as inputs observable or unobservable market parameters, including but not limited to yield curves, interest rates, volatilities, equity or debt prices, foreign exchange rates and credit curves. Valuation adjustments may be made to ensure that financial instruments are recorded at fair value.

Assets and liabilities that are not required to be measured at fair value on the Consolidated Balance Sheets

The "Cash and cash equivalents" had a carrying of \$117,954 and \$530,620 as of December 31, 2019 and 2018, respectively, which approximates the fair value.

The carrying values of other short-term and long-term financial assets and liabilities on the Consolidated Balance Sheet approximate their fair values. Fair value re-measurements of other financial instruments as of December 31, 2019 and 2018, were not material.

Credit and Concentration Risk

The Partnership's financial instruments that are exposed to concentrations of credit risk consist primarily of its cash equivalents, restricted cash and trade receivables. Cash and cash equivalents and time deposits are placed with major international banks and local banks. Partnership investment policies limit the Partnership's exposure both to credit risk and to concentrations of credit risk.

The Partnership routinely assesses the financial strength of its customers. When the financial strength of a customer is not considered sufficient, alternative risk mitigation measures may be deployed including requiring pre-payments, letters of credit or other acceptable collateral instruments to support sales to customers.

13. Commitment and Contingencies

General Operating Environment

The Partnership's principal business activities occur within the Republic. Laws and regulations affecting businesses operating in the Republic are subject to frequent changes, and the Partnership assets and operations could be adversely impacted by changes in the business, regulatory, political or legal environment. Noncompliance with Republic laws and regulations can lead to imposition of substantial penalties and interest. The Partnership Agreements provide the Partnership with some protections against legislative and regulatory changes through the fiscal stabilization clause and other clauses that may exempt the Partnership from certain legislative and regulatory actions that could negatively impact it.

Export Customs Duty

In July 2010, the Republic passed a resolution imposing a duty on the Partnership's crude exports. While the Partnership's position has been that it is exempt from these types of duties under Partnership Agreements with the Republic, in order to avoid a disruption of its exports the Partnership has been paying the duty under protest, reserving its rights under the Partnership Agreements. The Partnership has been offsetting the payments and interest against production related taxes due to the Republic, in accordance with the provisions of the Partnership Agreements.

Other Commitments and Contingencies

The Partnership is subject to scheduled and unscheduled inspections by regulatory agencies and government bodies of the Republic on an ongoing basis, which may result in claims being filed against the Partnership. Additionally, the Partnership receives claims from and submits claims to customers, contractors, suppliers, vendors, regulatory bodies, the Republic, and other third parties. Amounts of these claims, individually and in the aggregate, may be significant. Ultimate outcome and costs of the above claims and other future potential claims are not currently determinable and, therefore, these claims have not been provided for in these consolidated financial statements.

In respect of third-party liability for property and environmental damage arising from accidents on Partnership property or relating to Partnership operations, the Partnership has insurance coverage that is generally higher than insurance limits set by the local legal requirements. Management believes that the Partnership has adequate insurance coverage of the risks, which could have a material effect on the Partnership's operations and financial position.

14. Related Party Transactions

The Partnership entered into a number of crude oil and product sales transactions with the partners and their affiliates.

The following represents the transactions with the partners and their affiliates for the years ended December 31, 2019, 2018 and 2017:

	Year ended December 31		
	2019	2018	Unaudited 2017
Sales and other operating revenues	\$ 6,839,529	\$ 9,177,474	\$ 6,167,285
Production and operating expenses	\$ 898,853	\$ 579,200	\$ 572,911
Capital expenditures	\$ 863,397	\$ 941,698	\$ 1,139,283

In addition to the above, the Caspian Pipeline Consortium (CPC), which is partially owned by KazMunaiGas (19%), Chevron Caspian Consortium Company (15%), LUKARKO (12.5%) and ExxonMobil (7.5%), is a primary transportation route for exporting the Partnership's crude oil to overseas markets. Purchases and services from CPC during 2019 were at \$1,130,957 (2018: \$1,077,443; 2017: \$1,096,446).

The following represents the balances due from and payable to the Partners and their affiliates:

	<u>December 31, 2019</u>	<u>December 31, 2018</u>
Accounts receivable	\$ 55,042	\$ 331,713
Accounts payable	\$ 60,229	\$ 35,418
Accrued liabilities	\$ 491,765	\$ 655,282

Debt balances with partners or their affiliates are shown in Note 9 on page T-12. Of the total interest and debt costs shown in Note 15 below, 75% were related party transactions.

15. Interest and Debt Expense

All financing interest and debt costs are related to the Future Growth Project/Wellhead Pressure Management Project.

	<u>Year ended December 31</u>		
	<u>2019</u>	<u>2018</u>	Unaudited <u>2017</u>
Total financing interest and debt costs	\$ 355,137	\$ 291,451	\$ 290,967
Less: Capitalized interest	\$ 355,137	\$ 291,451	\$ 290,967
Interest and debt expense	\$ —	\$ —	\$ —