

RANGE RESOURCES CORP  
Form 10-Q  
October 23, 2018

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM 10-Q

(Mark one)

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

For the quarterly period ended September 30, 2018

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: 001-12209

RANGE RESOURCES CORPORATION

(Exact Name of Registrant as Specified in Its Charter)

Delaware  
(State or Other Jurisdiction of  
Incorporation or Organization)

34-1312571  
(IRS Employer  
Identification No.)  
76102

100 Throckmorton Street, Suite 1200

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Fort Worth, Texas

(Address of Principal Executive Offices) (Zip Code)

Registrant's telephone number, including area code

(817) 870-2601

Former Name, Former Address and Former Fiscal Year, if changed since last report: Not applicable

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 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 Exchange Act).

Yes      No

249,505,145 Common Shares were outstanding on October 19, 2018



## RANGE RESOURCES CORPORATION

## FORM 10-Q

Quarter Ended September 30, 2018

Unless the context otherwise indicates, all references in this report to “Range Resources,” “Range,” “we,” “us,” or “our” are to Range Resources Corporation and its directly and indirectly owned subsidiaries. For certain industry specific terms used in the Form 10-Q, please see “Glossary of Certain Defined Terms” in our 2017 Annual Report on Form 10-K.

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## PART I – FINANCIAL INFORMATION

## ITEM 1. Financial Statements

## RANGE RESOURCES CORPORATION

## CONSOLIDATED BALANCE SHEETS

(In thousands, except per share data)

	September 30, 2018 (Unaudited)	December 31, 2017
Assets		
Current assets:		
Cash and cash equivalents	\$357	\$448
Accounts receivable, less allowance for doubtful accounts of \$5,862 and \$7,111	397,536	348,833
Derivative assets	103	58,607
Inventory and other	24,488	21,346
Total current assets	422,484	429,234
Derivative assets	1,114	273
Goodwill	1,641,197	1,641,197
Natural gas and oil properties, successful efforts method	13,643,196	13,216,453
Accumulated depletion and depreciation	(3,929,060 )	(3,649,716 )
	9,714,136	9,566,737
Other property and equipment	112,404	114,361
Accumulated depreciation and amortization	(101,402 )	(99,695 )
	11,002	14,666
Other assets	76,203	76,734
Total assets	\$11,866,136	\$11,728,841
Liabilities		
Current liabilities:		
Accounts payable	\$225,874	\$343,871
Asset retirement obligations	6,327	6,327
Accrued liabilities	386,671	317,531
Accrued interest	37,739	43,511
Derivative liabilities	97,256	44,233
Total current liabilities	753,867	755,473
Bank debt	1,257,199	1,208,467
Senior notes	2,855,048	2,851,754
Senior subordinated notes	48,653	48,585
Deferred tax liabilities	731,723	693,356
Derivative liabilities	11,751	9,789
Deferred compensation liabilities	86,794	101,102
Asset retirement obligations and other liabilities	303,813	286,043

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Total liabilities	6,048,848	5,954,569
Commitments and contingencies		
Stockholders' Equity		
Preferred stock, \$1 par, 10,000,000 shares authorized, none issued and outstanding	—	—
Common stock, \$0.01 par, 475,000,000 shares authorized, 249,504,124 issued at		
September 30, 2018 and 248,144,397 issued at December 31, 2017	2,495	2,481
Common stock held in treasury, 10,067 shares at September 30, 2018 and 14,967		
shares at December 31, 2017	(404 )	(599 )
Additional paid-in capital	5,617,371	5,577,732
Accumulated other comprehensive loss	(1,124 )	(1,332 )
Retained earnings	198,950	195,990
Total stockholders' equity	5,817,288	5,774,272
Total liabilities and stockholders' equity	\$11,866,136	\$ 11,728,841

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

## RANGE RESOURCES CORPORATION

## CONSOLIDATED STATEMENTS OF OPERATIONS

(Unaudited, in thousands, except per share data)

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2018	2017	2018	2017
Revenues and other income:				
Natural gas, NGLs and oil sales	\$736,431	\$507,541	\$2,094,450	\$1,573,128
Derivative fair value (loss) income	(34,591 )	(88,426 )	(151,890 )	188,326
Brokered natural gas, marketing and other	109,385	63,117	267,448	170,544
Total revenues and other income	811,225	482,232	2,210,008	1,931,998
Costs and expenses:				
Direct operating	30,926	36,888	104,136	96,331
Transportation, gathering, processing and compression	304,562	191,645	819,100	560,883
Production and ad valorem taxes	9,427	11,993	29,493	31,125
Brokered natural gas and marketing	116,080	59,773	274,421	169,180
Exploration	8,299	22,767	23,517	45,769
Abandonment and impairment of unproved properties	6,549	42,568	73,244	52,181
General and administrative	43,722	53,035	159,722	152,853
Termination costs	(336 )	(47 )	(373 )	4,049
Deferred compensation plan	223	(9,203 )	(559 )	(36,838 )
Interest	54,801	49,179	161,048	144,206
Depletion, depreciation and amortization	164,266	159,749	487,558	462,074
Impairment of proved properties	—	63,679	22,614	63,679
Loss (gain) on the sale of assets	30	(102 )	(149 )	(23,509 )
Total costs and expenses	738,549	681,924	2,153,772	1,721,983
Income (loss) before income taxes	72,676	(199,692)	56,236	210,015
Income tax expense (benefit):				
Current	—	—	—	—
Deferred	24,137	(71,992 )	38,295	98,054
	24,137	(71,992 )	38,295	98,054
Net income (loss)	\$48,539	\$(127,700)	\$17,941	\$111,961
Net income (loss) per common share:				
Basic	\$0.19	\$(0.52 )	\$0.07	\$0.45
Diluted	\$0.19	\$(0.52 )	\$0.07	\$0.45
Dividends paid per common share	\$0.02	\$0.02	\$0.06	\$0.06
Weighted average common shares outstanding:				
Basic	246,451	245,244	246,016	245,027
Diluted	247,166	245,244	246,879	245,280

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



RANGE RESOURCES CORPORATION

CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (LOSS)

(Unaudited, in thousands)

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2018	2017	2018	2017
Net income (loss)	\$48,539	\$(127,700)	\$17,941	\$111,961
Other comprehensive income:				
Postretirement benefits:				
Prior service cost	91	—	276	—
Income tax benefit	(22 )	—	(68 )	—
Total comprehensive income (loss)	\$48,608	\$(127,700)	\$18,149	\$111,961

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



## RANGE RESOURCES CORPORATION

## CONSOLIDATED STATEMENTS OF CASH FLOWS

(Unaudited, in thousands)

	Nine Months Ended September 30,	
	2018	2017
Operating activities:		
Net income	\$ 17,941	\$ 111,961
Adjustments to reconcile net income to net cash provided from operating activities:		
Deferred income tax expense	38,295	98,054
Depletion, depreciation and amortization and impairment	510,172	525,753
Exploration dry hole costs	4	9,166
Abandonment and impairment of unproved properties	73,244	52,181
Derivative fair value loss (income)	151,890	(188,326 )
Cash settlements on derivative financial instruments	(40,272 )	16,062
Allowance for bad debts	(1,250 )	1,050
Amortization of deferred financing costs and other	4,163	4,184
Deferred and stock-based compensation	41,252	3,937
Gain on the sale of assets	(149 )	(23,509 )
Changes in working capital:		
Accounts receivable	(49,713 )	(39,694 )
Inventory and other	(822 )	(1,504 )
Accounts payable	(6,529 )	44,715
Accrued liabilities and other	36,721	(13,498 )
Net cash provided from operating activities	774,947	600,532
Investing activities:		
Additions to natural gas and oil properties	(781,554 )	(771,067 )
Additions to field service assets	(1,230 )	(4,687 )
Acreage purchases	(50,461 )	(46,967 )
Proceeds from disposal of assets	24,339	27,583
Purchases of marketable securities held by the deferred compensation plan	(34,953 )	(25,410 )
Proceeds from the sales of marketable securities held by the deferred compensation plan	37,311	28,755
Net cash used in investing activities	(806,548 )	(791,793 )
Financing activities:		
Borrowings on credit facilities	1,602,000	1,486,000
Repayments on credit facilities	(1,547,000)	(1,282,000)
Repayment of senior notes	—	(500 )
Dividends paid	(14,950 )	(14,876 )
Debt issuance costs	(8,257 )	(247 )
Taxes paid for shares withheld	(3,143 )	(6,971 )
Change in cash overdrafts	(5,653 )	5,588
Proceeds from the sales of common stock held by the deferred compensation plan	8,513	4,482
Net cash provided from financing activities	31,510	191,476
(Decrease) increase in cash and cash equivalents	(91 )	215
Cash and cash equivalents at beginning of period	448	314

Cash and cash equivalents at end of period	\$357	\$529
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The accompanying notes are an integral part of these consolidated financial statements.

RANGE RESOURCES CORPORATION

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (UNAUDITED)

(1) SUMMARY OF ORGANIZATION AND NATURE OF BUSINESS

Range Resources Corporation is a Fort Worth, Texas-based independent natural gas, natural gas liquids (“NGLs”) and oil company primarily engaged in the exploration, development and acquisition of natural gas and oil properties in the Appalachian and the North Louisiana regions of the United States. Our objective is to build stockholder value through consistent returns-focused growth, on a per share debt-adjusted basis, of both reserves and production on a cost-efficient basis. Range is a Delaware corporation with our common stock listed and traded on the New York Stock Exchange under the symbol “RRC”.

(2) BASIS OF PRESENTATION

These consolidated financial statements are unaudited but, in the opinion of management, reflect all adjustments necessary for fair presentation of the results for the periods presented. All adjustments are of a normal recurring nature unless otherwise disclosed. These consolidated financial statements, including selected notes, have been prepared in accordance with the applicable rules of the SEC and do not include all of the information and disclosures required by accounting principles generally accepted in the United States of America (“U.S. GAAP”) for complete financial statements.

These interim financial statements should be read in conjunction with the consolidated financial statements and notes thereto included in the Range Resources Corporation 2017 Annual Report on Form 10-K filed with the Securities and Exchange Commission (the “SEC”) on February 28, 2018. The results of operations for the third quarter and the nine months ended September 30, 2018 are not necessarily indicative of the results to be expected for the full year.

**Inventory.** As of September 30, 2018, we had \$9.1 million of material and supplies inventory compared to \$12.1 million at December 31, 2017. Material and supplies inventory consists of primarily tubular goods and equipment used in our operations and is stated at lower of specific cost of each inventory item or net realized value, on a first-in, first-out basis. At September 30, 2018, we also had commodity inventory of \$1.5 million compared to \$508,000 at December 31, 2017. Commodity inventory as of September 30, 2018 consists of NGLs held in storage or as line fill in pipelines.

**Unproved Properties.** Impairment of a significant portion of our unproved properties is assessed and amortized on an aggregate basis based on our average holding period, expected forfeiture rate and anticipated drilling success. In certain circumstances, our future plans to develop acreage may accelerate our impairment.

(3) NEW ACCOUNTING STANDARDS

Not Yet Adopted

Lease Accounting Standard

In February 2016, an accounting standards update was issued that requires an entity to recognize a right-of-use asset and lease liability for all leases with terms of more than twelve months. Classification of leases as either a finance or operating lease will determine the recognition, measurement and presentation of expenses. This accounting standards update also requires certain quantitative and qualitative disclosures about leasing arrangements. This standard does not apply to leases to explore for or use minerals, oil or natural gas resources, including the right to explore for those natural resources and rights to use the land in which those natural resources are contained. We are evaluating each of our lease arrangements and are currently enhancing our systems to track and calculate additional information

necessary for adoption of this standard. We are evaluating the provisions of this accounting standards update and assessing the impact it will have on our consolidated results of operations, financial position and financial disclosures, in addition to developing any control changes necessary. While we have yet to finalize the impact this standards update will have on our consolidated financial statements, we believe the adoption will likely increase our recorded assets and liabilities related to our leases.

We will adopt this new standards update in first quarter 2019 using a modified retrospective approach and will recognize a right of use asset and lease liability on the adoption date. We plan to apply practical expedients provided in the standards update that allow, among other things, not to reassess contracts that commenced prior to the adoption. We also anticipate to elect a policy not to recognize right of use assets and lease liabilities related to short-term leases.

#### Financial Instruments – Credit Losses

In June 2016, an accounting standards update was issued that changes the impairment model for trade receivables, net investments in leases, debt securities, loans and certain other instruments. The standards update requires the use of a forward-looking “expected loss” model as opposed to the current “incurred loss” model. This standards update is effective for us in first quarter 2020 and will be adopted on a modified retrospective basis through a cumulative-effect adjustment to retained earnings as of the beginning of the adoption period. Early adoption is permitted starting January 2019. We are evaluating the provisions of this accounting

standards update and assessing the impact, if any, it may have on our consolidated results of operations, financial position and financial disclosures.

#### Fair Value Measurement

In August 2018, an accounting standards update was issued which provides additional disclosure requirements for fair value measurements. This new standards update eliminates the requirement to disclose transfers between Level 1 and Level 2 of the fair value hierarchy and provides for additional disclosures for Level 3 fair value measurements. This new standards update is effective for us in first quarter 2020 and will be adopted on a prospective or retrospective basis depending on the changes that apply. We are evaluating the provisions of this standards update and assessing the impact, if any, it may have on our financial disclosures.

#### Recently Adopted

##### Pension Accounting Standard

In March 2017, an accounting standards update was issued which provides additional guidance on the presentation of net benefit cost in the statement of operations. Employers will present the service cost component of net periodic benefit cost in the same consolidated results of operations line item as other employee compensation costs arising from services rendered during the period. This new standards update was effective for annual reporting periods in first quarter 2018 and must be applied retrospectively. We adopted this standards update in first quarter 2018. The adoption did not impact our consolidated results of operations, financial position, cash flows or disclosures. We had no service cost recorded prior to 2018 due to the implementation of our postretirement benefit plan at the end of 2017. In 2018, our service cost is recorded in general and administrative expense.

##### Modification of Share – Based Awards

In May 2017, an accounting standards update was issued which clarifies what constitutes a modification of a share-based award. This standards update is intended to provide clarity and reduce both diversity in practice and cost and complexity to a change to the terms or conditions of a share-based payment award. We adopted this standards update in first quarter 2018. The adoption of this standard did not have a material impact on our consolidated financial position or results of operations.

##### Revenue Recognition Standard

In May 2014, an accounting standards update was issued that superseded the existing revenue recognition requirements. This standard included a five-step revenue recognition model to depict the transfer of goods or services to customers in an amount that reflects the consideration to which we expect to be entitled in exchange for those goods or services. Among other things, the standard also eliminated industry-specific revenue guidance, required enhanced disclosures about revenue, provided guidance for transactions that were not previously addressed comprehensively and improved guidance for multiple-element arrangements. This standard was effective for us in first quarter 2018 and we adopted the new standards using the modified retrospective method to all open contracts as of January 1, 2018. Our implementation of this standard did not result in a cumulative-effect adjustment on date of adoption; however, our financial statement presentation related to revenue received from certain gas processing contracts changed. Based on previous accounting guidance, certain of our gas processing contracts were reported in revenue at the net price (net of processing costs) we receive. Upon adoption of this accounting standards update, these contracts are now reported as a gross price received at a delivery point and separate transportation, marketing and processing expense. The impact of adoption of the new revenue recognition standard on our current period results is as follows (in thousands):

Three Months Ended September 30, 2018



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	Previous Revenue					
	As Reported		Recognition Method			
					\$ Per	\$ Per
	\$	\$ Per mcfe	\$	mcfe	Increase	mcfe
Revenues:						
Natural gas, NGLs and oil sales	\$736,431	\$3.53	\$688,684	\$3.30	\$47,747	\$0.23
Costs and expenses:						
Transportation, gathering, processing and compression	\$304,562	\$1.46	\$256,815	\$1.23	\$47,747	\$0.23
Net income	\$48,539		\$48,539		\$—	

	Nine Months Ended September 30, 2018					
	Previous Revenue					
	As Reported		Recognition Method			
		\$ Per		\$ Per		\$ Per
	\$	mcfe	\$	mcfe	Increase	mcfe
Revenues:						
Natural gas, NGLs and oil sales	\$2,094,450	\$3.45	\$1,966,731	\$3.24	\$127,719	\$0.21
Costs and expenses:						
Transportation, gathering, processing and compression	\$819,100	\$1.35	\$691,381	\$1.14	\$127,719	\$0.21
Net income	\$17,941		\$17,941		\$—	

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Changes to natural gas, NGLs and oil sales and transportation, gathering, processing, and compression expenses is due to the conclusion that we represent the role of principal in a certain gas processing and marketing agreement with a midstream entity in accordance with the new accounting standard. This represents a change from our previous conclusion utilizing the principal versus agent indication that we acted as the agent in that agreement. As a result, we were required to modify our presentation to present revenue on a gross basis for amounts expected to be received from third-party customers through the marketing process, with expenses incurred prior to control of the products transferring to the midstream entity at the tailgate of the plant presented as transportation, gathering, processing and compression expense.

#### Goodwill Standard

In January 2017, an accounting standards update was issued that eliminates the requirements to calculate the implied fair value of goodwill to measure goodwill impairment charge. Instead, entities will record an impairment charge based on the excess of a reporting unit's carrying amount over its fair value. This standard is effective for annual periods beginning after December 15, 2019 and should be applied on a prospective basis. Early adoption is permitted for any goodwill impairment tests performed in first quarter 2017 or later. We elected to adopt this accounting standards update in first quarter 2017. The adoption did not have a significant impact on our consolidated results of operations, financial position, cash flows or disclosures; however, this standard did change our policy for our annual goodwill impairment assessment by eliminating the requirement to calculate the implied fair value of goodwill.

#### Inventory Standard

In July 2015, an accounting standards update was issued that requires an entity to measure inventory at the lower of cost or net realizable value. This excludes inventory measured using LIFO or the retail inventory method. This standard was effective for us in first quarter 2017 and was applied prospectively. Adoption of this standard did not have an impact on our consolidated results of operations, financial position or cash flows.

#### Classification in the Statement of Cash Flows

In August 2016, an accounting standards update was issued that clarifies how entities classify certain cash receipts and cash payments on the statement of cash flows. The guidance is effective for us in first quarter 2018 and should be applied retrospectively with early adoption permitted. We adopted this new standard in fourth quarter 2017 on a retrospective basis. Adoption of this standard did not have an impact on our consolidated cash flow statement presentation.

#### Definition of a Business

In January 2017, an accounting standards update was issued which clarifies the definition of a business. This new standard is effective for us in first quarter 2018 with early adoption permitted. We adopted this new standard in fourth quarter 2017. Adoption of this standard did not have a significant impact on our consolidated results of operations, financial position or cash flows.

#### (4) DISPOSITIONS

We recognized a pretax net loss on the sale of assets of \$30,000 in third quarter 2018 compared to a pretax net gain of \$102,000 in the same period of the prior year and a pretax net gain on the sale of assets of \$149,000 in first nine months 2018 compared to a pretax net gain on the sale of assets of \$23.5 million in first nine months 2017.

#### 2018 Fourth Quarter Disposition Announcement

On October 15, 2018, we announced the simultaneous signing and closing of an agreement to sell a proportionately reduced 1% royalty on all our current Washington County, Pennsylvania leases for \$300.0 million in proceeds. The transaction is subject to customary terms and conditions.

#### 2018 Dispositions

Northern Oklahoma. In third quarter 2018, we sold properties in Northern Oklahoma for proceeds of \$23.3 million and we recorded a net loss of \$39,000 related to this sale, after closing adjustments.

Other. In third quarter 2018, we sold miscellaneous inventory and other assets for proceeds of \$673,000, resulting in a pretax gain of \$9,000. In first six months 2018, we sold miscellaneous inventory and other assets for proceeds of \$366,000 resulting in a pretax gain of \$179,000.

#### 2017 Dispositions

Western Oklahoma. In first nine months 2017, we sold properties in Western Oklahoma for proceeds of \$26.0 million and we recorded a gain of \$22.1 million related to this sale, after closing adjustments and transaction fees.

Other. In third quarter 2017, we sold miscellaneous inventory and other assets for proceeds of \$295,000, resulting in a pretax gain of \$102,000. In first six months 2017, we sold miscellaneous unproved property, inventory and other assets for proceeds of \$1.3 million resulting in a pretax gain of \$1.3 million.

## (5) REVENUES FROM CONTRACTS WITH CUSTOMERS

### Revenue Recognition

Natural gas, NGLs and oil sales revenues are generally recognized at the point in time that control of the product is transferred to the customer and collectability is reasonably assured. See a more detailed summary of our product types below.

### Natural Gas and NGLs Sales

Under our gas processing contracts, we deliver natural gas to a midstream processing entity at the wellhead or the inlet of the midstream processing entity's system. The midstream processing entity processes the natural gas and remits proceeds to us for the resulting sales of NGLs and residue gas. In these scenarios, we evaluate whether we are the principal or the agent in the transaction. For those contracts that we have concluded that we are the principal, the ultimate third party is our customer and we recognize revenue on a gross basis, with gathering, compression, processing, and transportation fees presented as an expense. Alternatively, for those contracts that we have concluded that we are the agent, the midstream processing entity is our customer and we recognize revenue based on the net amount of the proceeds received from the midstream processing entity.

In certain natural gas processing agreements, we may elect to take our residue gas and/or NGLs in-kind at the tailgate of the midstream entity's processing plant and subsequently market the product on our own. Through the marketing process, we deliver product to the ultimate third party purchaser at a contractually agreed upon delivery point and receive a specified index price from the purchaser. In this scenario, we recognize revenue when control transfers to the purchaser at the delivery point based on the index price received from the purchaser. The gathering, processing and compression fees attributable to the gas processing contract, as well as any transportation fees incurred to deliver the product to the purchaser, are presented as transportation, gathering, processing and compression expense.

### Oil Sales

Our oil sales contracts are generally structured in one of the following ways:

- We sell oil production at the wellhead and collect an agreed upon index price, net of transportation incurred by the purchaser (that is, a netback arrangement). In this scenario, we recognize revenue when control transfers to the purchaser at the wellhead at the net price received.
- We deliver oil to the purchaser at a contractually agreed upon delivery point at which the purchaser takes custody, title, and risk of loss of the product. Under this arrangement, we pay a third party to transport the product and receive a specified index price from the purchaser with no deduction. In this scenario, we recognize revenue when control transfers to the purchaser at the delivery point based on the price received from the purchaser. The third party costs are recorded as transportation, gathering, processing and compression expense.

### Brokered Natural Gas, Marketing and Other

We realize brokered margins as a result of buying natural gas or NGLs utilizing separate purchase transactions, generally with separate counterparties and subsequently selling that natural gas or NGLs under our existing contracts to fulfill our contract commitments or utilizing existing infrastructure contracts to economically utilize available capacity. In these arrangements, we take control of the natural gas purchased prior to delivery of that gas under our existing gas contracts with a separate counterparty. Revenues and expenses related to brokering natural gas are reported gross as part of revenues and expenses in accordance with applicable accounting standards. Our net brokered margin was a loss of \$6.7 million in third quarter 2018 and a loss of \$7.0 million in first nine months 2018.

## Disaggregation of Revenue

We have identified three material revenue streams in our business: natural gas sales, NGLs sales and oil sales. Brokered revenue attributable to each product sales type is included here because the volume of product that we purchase is subsequently sold to separate counterparties in accordance with existing sales contracts under which we also sell our production. Revenue attributable to each of our identified revenue streams is disaggregated below (in thousands):

	Three Months Ended	Nine Months Ended
	September 30, 2018	September 30, 2018
Natural gas sales <sup>(a)</sup>	\$500,194	\$1,449,148
NGLs sales <sup>(b)</sup>	278,410	706,673
Oil sales	67,212	206,077
Total	\$845,816	\$2,361,898

<sup>(a)</sup> Natural gas sales revenue reported above for the third quarter includes \$105.8 million of brokered revenues and \$3.7 million of marketing revenue. The nine months includes \$255.1 million of brokered revenues and \$11.4 million of marketing revenue.

<sup>(b)</sup> NGLs sales revenue reported above for the third quarter includes (\$153,000) of brokered revenues and for nine months includes \$880,000 of brokered revenues.

## Principal versus Agent

We engage in various types of transactions in which midstream entities process our wet gas and, in some scenarios, subsequently market the resulting NGLs and residue gas to third-party customers on our behalf. These types of transactions require judgment to determine whether we are the principal or the agent in the contract and, as a result, whether revenues are recorded gross or net.

## Transaction Price Allocated to Remaining Performance Obligations

A significant number of our product sales are short-term in nature with a contract term of one year or less. For those contracts, we have utilized the practical expedient allowed in the new revenue accounting standard that exempts us from disclosure of the transaction price allocated to remaining performance obligations if the performance obligation is part of a contract that has an original expected duration of one year or less.

For our product sales that have a contract term greater than one year, we have also utilized the practical expedient that states that we are not required to disclose the transaction price allocated to remaining performance obligations if the variable consideration is allocated entirely to a wholly unsatisfied performance obligation. Under these sales contracts, each unit of product generally represents a separate performance obligation; therefore, future volumes are wholly unsatisfied and disclosure of the transaction price allocated to remaining performance obligations is not required. Currently, our product sales that have a contractual term greater than one year have no long-term fixed consideration.

## Contract Balances

Under our sales contracts, we invoice customers once our performance obligations have been satisfied, at which point payment is unconditional. Accordingly, our product sales contracts do not give rise to contract assets or liabilities. Accounts receivable attributable to our revenue contracts with customers was \$354.4 million at September 30, 2018 and \$305.7 million at December 31, 2017.

## Prior-Period Performance Obligations

We record revenue in the month production is delivered to the purchaser. However, settlement statements for certain gas and NGLs sales may be received for 30 to 90 days after the date production is delivered, and as a result, we are required to estimate the amount of production that was delivered to the purchaser and the price that will be received for the sale of the product. We record the differences between our estimates and the actual amounts for product sales in the month that payment is received from the purchaser. We have internal controls in place for our estimation process and any identified differences between our revenue estimates and actual revenue received historically have not been significant. For the three months and the nine months ended September 30, 2018, revenue recognized in the reporting period related to performance obligations satisfied in prior reporting periods was not material.

## (6) INCOME TAXES

Income tax expense (benefit) was as follows (in thousands):

	Three Months Ended		Nine Months Ended	
	September 30, 2018		September 30, 2017	
Income tax expense (benefit)	\$24,137	\$(71,992)	\$38,295	\$98,054
Effective tax rate	33.2 %	36.1 %	68.1 %	46.7 %

We compute our quarterly taxes under the effective tax rate method based on applying an anticipated annual effective rate to our year-to-date income, except for discrete items. Income taxes for discrete items are computed and recorded in the period that the specific transaction occurs. For third quarter and first nine months ended 2018 and 2017, our overall effective tax rate was different than the federal statutory rate due primarily to state income taxes (including adjustments to state income tax valuation allowances), equity compensation and other tax items which are detailed below (in thousands).

	Three Months Ended		Nine Months Ended	
	September 30, 2018		September 30, 2017	
Total income (loss) before income taxes	\$72,676	\$(199,692)	\$56,236	\$210,015
U.S. federal statutory rate	21 %	35 %	21 %	35 %
Total tax expense (benefit) at statutory rate	15,262	(69,892 )	11,810	73,505
State and local income taxes, net of federal benefit	2,691	(6,537 )	3,439	6,591
Non-deductible executive compensation	48	296	601	436
Equity compensation	6	56	2,146	4,808
Change in valuation allowances:				
Federal net operating loss carryforwards & other	—	69	—	3,487
State net operating loss carryforwards & other	5,558	4,286	19,194	10,498
Rabbi trust and other	100	(508 )	1,499	(1,561 )
Permanent differences and other	472	238	(394 )	290
Total expense (benefit) for income taxes	\$24,137	\$(71,992 )	\$38,295	\$98,054
Effective tax rate	33.2 %	36.1 %	68.1 %	46.7 %

On December 22, 2017, the Tax Cuts and Jobs Act of 2017 was signed into law. The law significantly reformed the Internal Revenue Code of 1986, as amended. The reduction in the corporate tax rate required a one-time revaluation of certain tax related assets and liabilities to reflect their value at the lower corporate tax rate of 21%. Due to the complexities involved in the accounting for the enactment of the new law, the SEC Staff Accounting Bulletin (“SAB”) 118 allowed a provisional estimate for the year ended December 31, 2017, which we made. As of September 30, 2018, we have not made any material adjustments to our provisional estimate at year-end 2017. We have made a reasonable estimate of the effect on our deferred tax balances. We will continue to analyze the impact of the new law and additional impacts will be recorded as they are identified during the measurement period provided for in SAB 118.

## (7) INCOME (LOSS) PER COMMON SHARE

Basic income or loss per share attributable to common shareholders is computed as (1) income or loss attributable to common shareholders (2) less income allocable to participating securities (3) divided by weighted average basic shares outstanding. Diluted income or loss per share attributable to common shareholders is computed as (1) basic income or loss attributable to common shareholders (2) plus diluted adjustments to income allocable to participating securities (3) divided by weighted average diluted shares outstanding. The following sets forth a reconciliation of income or loss attributable to common shareholders to basic income or loss attributable to common shareholders to diluted income or loss attributable to common shareholders (in thousands except per share amounts):



	Three Months Ended		Nine Months Ended	
	September 30, 2018 2017		September 30, 2018 2017	
Net income (loss), as reported	\$48,539	\$(127,700)	\$17,941	\$111,961
Participating earnings <sup>(a)</sup>	(590 )	(58 )	(224 )	(1,251 )
Basic net income (loss) attributed to common shareholders	47,949	(127,758)	17,717	110,710
Reallocation of participating earnings <sup>(a)</sup>	2	—	—	1
Diluted net income (loss) attributed to common shareholders	\$47,951	\$(127,758)	\$17,717	\$110,711
Net income (loss) per common share:				
Basic	\$0.19	\$(0.52 )	\$0.07	\$0.45
Diluted	\$0.19	\$(0.52 )	\$0.07	\$0.45

<sup>(a)</sup> Restricted Stock Awards represent participating securities because they participate in nonforfeitable dividends or distributions with common equity owners. Income allocable to participating securities represents the distributed and undistributed earnings attributable to the participating securities. Participating securities, however, do not participate in undistributed net losses.

The following provides a reconciliation of basic weighted average common shares outstanding to diluted weighted average common shares outstanding (in thousands):

	Three Months Ended		Nine Months Ended	
	September 30, 2018 2017		September 30, 2018 2017	
Weighted average common shares outstanding – basic	246,451	245,244	246,016	245,027
Effect of dilutive securities:				
Director and employee PSUs and RSUs	715	—	863	253
Weighted average common shares outstanding – diluted	247,166	245,244	246,879	245,280

Weighted average common shares outstanding-basic for third quarter 2018 excludes 3.0 million shares of restricted stock held in our deferred compensation plan compared to 2.9 million shares in third quarter 2017 (although all awards are issued and outstanding upon grant). Weighted average common shares outstanding-basic for first nine months 2018 excludes 3.1 million shares of restricted stock compared to 2.8 million for first nine months 2017. For third quarter 2018, equity grants of 506,000 and for first nine months 2018, equity grants of 755,000 were outstanding but not included in the computation of diluted net income per share because the grant prices were greater than the average market price of our common shares and would be anti-dilutive to the computations. Due to our net loss in third quarter 2017, all outstanding equity grants have been excluded from the computation of diluted net loss per share because the effect would have been anti-dilutive to the computations. For first nine months 2017, equity grants of 1.1 million were outstanding but not included in the computation of diluted net income per share because the grant prices were greater than the average market price of our common shares and would be anti-dilutive to the computations. For purposes of calculating diluted weighted average common shares, non-vested restricted stock and performance based equity awards are included in the computation using the treasury stock method with the deemed proceeds equal to the average unrecognized compensation during the period.

(8) Capitalized Costs and Accumulated Depreciation, Depletion and Amortization <sup>(a)</sup>

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	September 30, 2018	December 31, 2017
	(in thousands)	
Natural gas and oil properties:		
Properties subject to depletion	\$ 11,041,412	\$ 10,572,453
Unproved properties	2,601,784	2,644,000
Total	13,643,196	13,216,453
Accumulated depreciation, depletion and amortization	(3,929,060 )	(3,649,716 )
Net capitalized costs	\$9,714,136	\$9,566,737

<sup>(a)</sup> Includes capitalized asset retirement costs and the associated accumulated amortization.

## (9) INDEBTEDNESS

We had the following debt outstanding as of the dates shown below (bank debt interest rate at September 30, 2018 is shown parenthetically). No interest was capitalized during the three months or nine months ended September 30, 2018 or the year ended December 31, 2017 (in thousands).

	September 30,	December 31,
	2018	2017
Bank debt (3.9%)	\$ 1,266,000	\$ 1,211,000
Senior notes:		
4.875% senior notes due 2025	750,000	750,000
5.00% senior notes due 2023	741,531	741,531
5.00% senior notes due 2022	580,032	580,032
5.75% senior notes due 2021	475,952	475,952
5.875% senior notes due 2022	329,244	329,244
Other senior notes due 2022	590	590
Total senior notes	2,877,349	2,877,349
Senior subordinated notes:		
5.00% senior subordinated notes due 2023	7,712	7,712
5.00% senior subordinated notes due 2022	19,054	19,054
5.75% senior subordinated notes due 2021	22,214	22,214
Total senior subordinated notes	48,980	48,980
Total debt	4,192,329	4,137,329
Unamortized premium	5,070	6,027
Unamortized debt issuance costs	(36,499)	(34,550)
Total debt net of debt issuance costs	\$4,160,900	\$4,108,806

## Bank Debt

In April 2018, we entered into an amended and restated revolving bank facility, which we refer to as our bank debt or our bank credit facility, which is secured by substantially all of our assets and has a maturity date of April 13, 2023. The bank credit facility provides for a maximum facility amount of \$4.0 billion and an initial borrowing base of \$3.0 billion. The bank credit facility provides for a borrowing base subject to redeterminations annually by May and for event-driven unscheduled redeterminations. As of September 30, 2018, our bank group was composed of twenty-seven financial institutions with no one bank holding more than 5.8% of the total facility. The borrowing base may be increased or decreased based on our request and sufficient proved reserves, as determined by the bank group. The commitment amount may be increased to the borrowing base, subject to payment of a mutually acceptable commitment fee to those banks agreeing to participate in the facility increase. On September 30, 2018, bank commitments total \$2.0 billion and the outstanding balance under our bank credit facility was \$1.3 billion, before deducting debt issuance costs. Additionally, we had \$281.4 million of undrawn letters of credit leaving \$452.6 million of committed borrowing capacity available under the facility. During a non-investment grade period, borrowings under the bank credit facility can either be at the alternate base rate ("ABR," as defined in the bank credit facility agreement) plus a spread ranging from 0.25% to 1.25% or LIBOR borrowings at the LIBOR Rate (as defined in the bank credit facility agreement) plus a spread ranging from 1.25% to 2.25%. The applicable spread is dependent upon borrowings relative to the borrowing base. We may elect, from time to time, to convert all or any part of our LIBOR loans to base rate loans or to convert all or any of the base rate loans to LIBOR loans. The weighted average interest rate was 3.9% for third quarter 2018 compared to 2.8% for third quarter 2017. The weighted average interest rate was 3.7% for first nine months 2018 compared to 2.6% for first nine months 2017. A commitment fee is paid on the undrawn balance based on an annual rate of 0.30% to 0.375%. At September 30, 2018, the commitment fee was 0.35% and the interest rate margin was 1.75% on our LIBOR loans and 0.75% on our base rate loans.



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At any time during which we have an investment grade debt rating from Moody's Investors Service, Inc. or Standard & Poor's Ratings Services and we have elected, at our discretion, to effect the investment grade rating period, certain collateral security requirements, including the borrowing base requirement and restrictive covenants, will cease to apply and an additional financial covenant (as defined in the bank credit facility) will be imposed. During the investment grade period, borrowings under the credit facility can either be at the ABR plus a spread ranging from 0.125% to 0.75% or at the LIBOR Rate plus a spread ranging from 1.125% to 1.75% depending on our debt rating. The commitment fee paid on the undrawn balance would range from 0.15% to 0.30%. We currently do not have an investment grade debt rating.

### Senior Notes

In September 2016, in conjunction with the acquisition of Memorial Resource Development Corp. (the "MRD Merger"), we issued \$329.2 million senior unsecured 5.875% notes due 2022 (the "5.875% Notes"). In addition, we also completed a debt exchange offer to exchange senior subordinated notes for the following senior notes (in thousands):

	Principal Amount
5.00% senior notes due 2023	\$741,531
5.00% senior notes due 2022	\$580,032
5.75% senior notes due 2021	\$475,952

All of the notes were offered to qualified institutional buyers and to non-U.S. persons outside the United States in compliance with Rule 144A and Regulation S under the Securities Act of 1933, as amended (the "Securities Act"). On October 5, 2017, the 5.875% Notes, the 5.00% senior notes due 2023, the 5.00% senior notes due 2022 and the 5.75% senior notes due 2021 (collectively, the "Old Notes") were exchanged for an equal principal amount of registered notes pursuant to an effective registration statement on Form S-4 filed with the SEC on August 9, 2017 under the Securities Act (the "New Notes"). The New Notes are identical to the Old Notes except the New Notes are registered under the Securities Act and do not have restrictions on transfer, registration rights or provisions for additional interest. Under certain circumstances, if we experience a change of control, noteholders may require us to repurchase all of our senior notes at 101% of the aggregate principal amount plus accrued and unpaid interest, if any.

### Senior Subordinated Notes

If we experience a change of control, noteholders may require us to repurchase all or a portion of our senior subordinated notes at 101% of the aggregate principal amount plus accrued and unpaid interest, if any. All of the senior subordinated notes and the guarantees by our subsidiary guarantors are general, unsecured obligations and are subordinated to our bank debt and are subordinated to existing and future senior debt that we or our subsidiary guarantors are permitted to incur.

### Guarantees

Range is a holding company which owns no operating assets and has no significant operations independent of its subsidiaries. The guarantees by our subsidiaries, which are directly or indirectly owned by Range, of our senior notes, senior subordinated notes and our bank credit facility are full and unconditional and joint and several, subject to certain customary release provisions. A subsidiary guarantor may be released from its obligations under the guarantee:

- in the event of a sale or other disposition of all or substantially all of the assets of the subsidiary guarantor or a sale or other disposition of all the capital stock of the subsidiary guarantor, to any corporation or other person (including an unrestricted subsidiary of Range) by way of merger, consolidation, or otherwise; or
- if Range designates any restricted subsidiary that is a guarantor to be an unrestricted subsidiary in accordance with the terms of the indenture.



## Debt Covenants

Our bank credit facility contains negative covenants that limit our ability, among other things, to pay cash dividends, incur additional indebtedness, sell assets, enter into certain hedging contracts, change the nature of our business or operations, merge, consolidate, or make certain investments. In addition, we are required to maintain a ratio of EBITDAX (as defined in the bank credit facility agreement) to cash interest expense of equal to or greater than 2.5 and a current ratio (as defined in the bank credit facility agreement) of no less than 1.0. In addition, the ratio of the present value of proved reserves (as defined in the credit agreement) to total debt must be equal to or greater than 1.5 until Range has two investment grade ratings. We were in compliance with applicable covenants under the bank credit facility at September 30, 2018.

## (10) ASSET RETIREMENT OBLIGATIONS

Our asset retirement obligations primarily represent the estimated present value of the amounts we will incur to plug, abandon and remediate our producing properties at the end of their productive lives. Significant inputs used in determining such obligations include estimates of plugging and abandonment costs, estimated future inflation rates and well lives. The inputs are calculated based on historical data as well as current estimated costs. A reconciliation of our liability for plugging and abandonment costs for the nine months ended September 30, 2018 is as follows (in thousands):

	Nine Months
	Ended
	September
	30,
	2018
Beginning of period	\$ 276,855
Liabilities incurred	2,668
Disposition of wells	(8,665 )
Acquisitions	13,438
Liabilities settled	(3,803 )
Accretion expense	12,132
Change in estimate	4,347
End of period	296,972
Less current portion	(6,327 )
Long-term asset retirement obligations	\$ 290,645

Accretion expense is recognized as a component of depreciation, depletion and amortization expense in the accompanying consolidated statements of operations. Acquisitions include an increase in our interest in certain properties in Northwest Pennsylvania.

## (11) DERIVATIVE ACTIVITIES

We use commodity-based derivative contracts to manage exposure to commodity price fluctuations. We do not enter into these arrangements for speculative or trading purposes. We utilize commodity swaps, collars, calls or swaptions to (1) reduce the effect of price volatility of the commodities we produce and sell and (2) support our annual capital budget and expenditure plans. The fair value of our derivative contracts, represented by the estimated amount that would be realized upon termination, based on a comparison of the contract price and a reference price, generally the New York Mercantile Exchange (“NYMEX”) for natural gas and crude oil or Mont Belvieu for NGLs, approximated a net loss of \$104.8 million at September 30, 2018. These contracts expire monthly through December 2020. The following table sets forth our commodity-based derivative volumes by year as of September 30, 2018, excluding our basis and freight swaps which are discussed separately below:

Period	Contract Type	Volume Hedged	Weighted Average Hedge Price
Natural Gas			
2018	Swaps	1,193,370 Mmbtu/day	\$ 2.96
2019	Swaps	594,589 Mmbtu/day	\$ 2.82
2018	Calls	70,000 Mmbtu/day	\$ 3.10 <sup>(1)</sup>
2018	Swaptions	160,000 Mmbtu/day	\$ 3.07 <sup>(2)</sup>
2019	Swaptions	298,014 Mmbtu/day	\$ 2.86 <sup>(2)</sup>
2020	Swaptions	10,000 Mmbtu/day	\$ 2.75 <sup>(2)</sup>
Crude Oil			
2018	Swaps	8,500 bbls/day	\$ 53.20
2019	Swaps	7,000 bbls/day	\$ 55.26
2020	Swaps	1,500 bbls/day	\$ 60.63
2019	Collars	1,000 bbls/day	\$ 63.00 – \$ 73.03
NGLs (C3-Propane)			
2018	Swaps	11,668 bbls/day	\$ 0.74/gallon
January – June 2019	Swaps	7,500 bbls/day	\$ 0.92/gallon
2018	Collars	5,000 bbls/day	\$ 0.95 – \$ 1.04
January – March 2019	Collars	6,500 bbls/day	\$ 0.92 – \$ 1.02
NGLs (NC4-Normal Butane)			
2018	Swaps	5,500 bbls/day	\$ 0.91/gallon
January – March 2019	Swaps	2,250 bbls/day	\$ 1.22/gallon
NGLs (C5-Natural Gasoline)			
2018	Swaps	5,402 bbls/day	\$ 1.24/gallon
2019	Swaps	2,178 bbls/day	\$ 1.42/gallon

<sup>(1)</sup>Weighted average deferred premium of \$0.16.

<sup>(2)</sup>Contains a combined derivative instrument consisting of a fixed price swap and a sold option to extend or double the volume. For October through December of 2018, we have swaps in place for 160,000 Mmbtu per day on which the counterparty can elect to extend the contract through December 2019 at a weighted average price of \$3.07. We have swaps in place for 2019 for 185,000 Mmbtu/day on which the counterparty can elect to double the volume at a



weighted average price of \$2.89. We also have swaps in place for 2019 for 150,000 Mmbtu per day on which the counterparty can elect to extend the contract through December 2020 at a weighted average price of \$2.81. For 2020, we have swaps in place for 10,000 Mmbtu/day on which the counterparty can elect to double the volume at a weighted average price of \$2.75.

Every derivative instrument is required to be recorded on the balance sheet as either an asset or a liability measured at its fair value. We recognize all changes in fair value of these derivatives as earnings in derivative fair value income or loss in the periods in which they occur.

#### Basis Swap Contracts

In addition to the swaps, collars, calls and swaptions described above, at September 30, 2018, we had natural gas basis swap contracts which lock in the differential between NYMEX Henry Hub and certain of our physical pricing indices. These contracts settle monthly through September 2021 and include a total volume of 73,660,000 Mmbtu. The fair value of these contracts was a loss of \$1.3 million at September 30, 2018.

At September 30, 2018, we also had propane spread swap contracts which lock in the differential between Mont Belvieu and international propane indices. The contracts settle monthly through December 2019 and include a total volume of 1,943,000 barrels. The fair value of these contracts was a loss of \$2.0 million at September 30, 2018.

# Freight Swap Contracts

In connection with our international propane sales, we utilize propane swaps. To further hedge our propane price, at September 30, 2018, we had freight swap contracts on the Baltic Exchange which lock in the freight rate for a specific trade route. These contracts settle monthly through December 2019 and cover 5,000 metric tons per month with a fair value gain of \$301,000 at September 30, 2018. These contracts use observable third-party pricing inputs that we consider to be Level 2 fair value classification.

# Derivative Assets and Liabilities

The combined fair value of derivatives included in the accompanying consolidated balance sheets as of September 30, 2018 and December 31, 2017 is summarized below. The assets and liabilities are netted where derivatives with both gain and loss positions are held by a single counterparty and we have master netting arrangements. The tables below provide additional information relating to our master netting arrangements with our derivative counterparties (in thousands):

		September 30, 2018		
		Gross	Net	
		Amounts	Amounts	of Assets
		of	Offset in	Presented
		Recognized	the	in the
		Assets	Balance	Balance
			Sheet	Sheet
Derivative assets:				
Natural gas	–swaps	\$6,503	\$(4,745 )	\$ 1,758
	–swaptions	12,893	(12,700)	193
	–basis swaps	1,246	(1,112 )	134
Crude oil	–swaps	—	(799 )	(799 )
	–collars	—	(69 )	(69 )
NGLs	–C3 propane swaps	3	(3 )	—
	–C3 propane spread swaps	25,747	(25,747)	—
Freight	–swaps	301	(301 )	—
		\$46,693	\$(45,476)	\$ 1,217

  

		September 30, 2018		
		Gross	Net	
		Amounts	Amounts	of
		of	Offset in	(Liabilities)
		Recognized	the	Presented
		(Liabilities)	Balance	Balance
			Sheet	Sheet

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Derivative (liabilities):

Natural gas	–swaps	\$(10,030 )	\$ 4,745	\$ (5,285 )
	–swaptions	(8,759 )	12,700	3,941
	–basis swaps	(2,548 )	1,112	(1,436 )
	–calls	(504 )	—	(504 )
Crude oil	–swaps	(57,424 )	799	(56,625 )
	–collars	(717 )	69	(648 )
NGLs	–C3 propane swaps	(20,363 )	3	(20,360 )
	–C3 propane collars	(3,237 )	—	(3,237 )
	–C3 propane spread swaps	(27,741 )	25,747	(1,994 )
	–NC4 butane swaps	(8,223 )	—	(8,223 )
	–C5 natural gasoline swaps	(14,937 )	—	(14,937 )
Freight	–swaps	—	301	301
		\$(154,483)	\$ 45,476	\$ (109,007 )

		December 31, 2017	
		Gross	Net
		Amounts	Amounts
		of	of Assets
		Recognized	Presented
		Assets	in the
		Balance	Balance
		Sheet	Sheet
Derivative assets:			
Natural gas	–swaps	\$87,794	\$(4,106 ) \$ 83,688
	–swaptions	18,817	(8,103 ) 10,714
	–basis swaps	1,815	(6,673 ) (4,858 )
	–collars	3,039	(500 ) 2,539
Crude oil	–swaps	2	(7,928 ) (7,926 )
NGLs	–C2 ethane swaps	57	— 57
	–C3 propane swaps	—	(12,556) (12,556 )
	–C3 propane collars	85	(85 ) —
	–C3 propane spread swaps	12,762	(12,762) —
	–NC4 butane swaps	—	(6,051 ) (6,051 )
	–C5 natural gasoline swaps	—	(6,727 ) (6,727 )
Freight	–swaps	276	(276 ) —
		\$124,647	\$(65,767) \$ 58,880
		December 31, 2017	
		Gross	Net
		Amounts	Amounts
		of	of
		Recognized	(Liabilities)
		Assets	Presented
		Balance	in the
		Sheet	in the
		Balance	Balance
		Sheet	Sheet
Derivative (liabilities):			
Natural gas	–swaps	\$(216 )	\$ 4,106 \$ 3,890
	–swaptions	(12,283 )	8,103 (4,180 )
	–basis swaps	(9,580 )	6,673 (2,907 )
	–collars	—	500 500
Crude oil	–swaps	(24,726 )	7,928 (16,798 )
NGLs	–C3 propane swaps	(34,325 )	12,556 (21,769 )
	–C3 propane collars	—	85 85
	–C3 propane spread swaps	(13,983 )	12,762 (1,221 )
	–NC4 butane swaps	(11,188 )	6,051 (5,137 )

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	-C5 natural gasoline swaps	(13,488 )	6,727	(6,761 )
Freight	-swaps	—	276	276
		\$(119,789)	\$ 65,767	\$ (54,022 )

The effects of our derivatives on our consolidated statements of operations are summarized below (in thousands):

	Derivative Fair Value (Loss) Income			
	Three Months		Nine Months Ended	
	Ended			
	September 30,	September 30,	September 30,	September 30,
	2018	2017	2018	2017
Commodity swaps	\$(35,868)	\$(87,861)	\$(143,598)	\$ 172,457
Swaptions	7,093	(7,602 )	4,100	(7,602 )
Collars	(3,965 )	956	(4,031 )	15,221
Puts	—	(73 )	—	9,646
Calls	197	104	526	1,144
Basis swaps	(2,350 )	6,113	(9,043 )	(2,554 )
Freight swaps	302	(63 )	156	14
Total	\$(34,591)	\$(88,426)	\$(151,890)	\$ 188,326

## (12) FAIR VALUE MEASUREMENTS

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

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

- Level 1 – Observable inputs that reflect unadjusted quoted prices for identical assets or liabilities in active markets as of the reporting date. Active markets are those in which transactions for the asset or liability occur in sufficient frequency and volume to provide pricing information on an ongoing basis.
- Level 2 – Observable market-based inputs or unobservable inputs that are corroborated by market data. These are inputs other than quoted prices in active markets included in Level 1, which are either directly or indirectly observable as of the reporting date.
- Level 3 – Unobservable inputs for which there is little, if any, market activity for the asset or liability being measured. These inputs reflect management's best estimates of the assumptions market participants would use in determining fair value. Our Level 3 measurements consist of instruments using standard pricing models and other valuation methods that utilize unobservable pricing inputs that are significant to the overall fair value.

Valuation techniques that maximize the use of observable inputs are favored. Assets and liabilities are classified in their entirety based on the lowest priority level of input that is significant to the fair value measurement. The assessment of the significance of a particular input to the fair value measurement requires judgment and may affect the placement of assets and liabilities within the levels of the fair value hierarchy.

Significant uses of fair value measurements include:

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

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

## Fair Values – Recurring

We use a market approach for our recurring fair value measurements and endeavor to use the best information available. The following tables present the fair value hierarchy table for assets and liabilities measured at fair value, on a recurring basis (in thousands):

Fair Value Measurements at September 30, 2018  
using:  
Quoted Prices

	in Active	Significant Other	Significant Observable	Total Carrying Value as of September 30, 2018
	Markets for Identical (Level 1)	Assets Inputs (Level 2)	Unobservable Inputs (Level 3)	
Trading securities held in the deferred compensation plans	\$67,108	\$ —	\$ —	\$67,108
Derivatives –swaps	—	(104,471 )	—	(104,471 )
–collars	—	(717 )	(3,237 )	(3,954 )
–calls	—	(504 )	—	(504 )
–basis swaps	—	(3,296 )	—	(3,296 )
–freight swaps	—	301	—	301
–swaptions	—	—	4,134	4,134

Fair Value Measurements at December 31, 2017 using:  
Quoted Prices

	in Active	Significant Other	Significant Observable	Total Carrying Value as of December 31, 2017
	Markets for Identical Assets (Level 1)	Inputs (Level 2)	Unobservable Inputs (Level 3)	
Trading securities held in the deferred compensation plans	\$67,117	\$ —	\$ —	\$ 67,117
Derivatives –swaps	—	3,910	—	3,910
–collars	—	3,039	85	3,124

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–basis swaps	—	(9,025 )	39	(8,986 )
–freight swaps	—	276	—	276
–swaptions	—	—	6,534	6,534

Our trading securities in Level 1 are exchange-traded and measured at fair value with a market approach using end of period market values. Derivatives in Level 2 are measured at fair value with a market approach using third-party pricing services, which have been corroborated with data from active markets or broker quotes. As of September 30, 2018, a portion of our natural gas derivative instruments contains swaptions where the counterparty has the right, but not the obligation, to enter into a fixed price swap on a pre-determined date. Derivatives in Level 3 are measured at fair value with a market approach using third-party pricing services, which have been corroborated with data from active markets or broker quotes. Subjectivity in the volatility factors utilized can cause a significant change in the fair value measurement of our swaptions. The following is a reconciliation of the beginning and ending balances for derivative instruments classified as Level 3 in the fair value hierarchy (in thousands):

	As of
	September 30, 2018
Balance at December 31, 2017	\$ 6,658
Total losses:	
Included in earnings	1,876
Settlements	(4,690 )
Transfer out of Level 3 <sup>(1)</sup>	(2,947 )
Balance at September 30, 2018	\$ 897

<sup>(1)</sup> During first nine months 2018, we transferred \$2.9 million of swaption contracts out of Level 3 due to the exercise of these swaptions by our counterparties.



Our trading securities held in the deferred compensation plan are accounted for using the mark-to-market accounting method and are included in other assets in the accompanying consolidated balance sheets. We elected to adopt the fair value option to simplify our accounting for the investments in our deferred compensation plan. Interest, dividends, and mark-to-market gains or losses are included in deferred compensation plan expense in the accompanying consolidated statements of operations. For third quarter 2018, interest and dividends were \$225,000 and the mark-to-market adjustment was a gain of \$1.3 million compared to interest and dividends of \$1.5 million and a mark-to-market gain of \$1.1 million in third quarter 2017. For first nine months 2018, interest and dividends were \$606,000 and the mark-to-market gain was \$522,000 compared to interest and dividends of \$2.4 million and mark-to-market gain of \$4.1 million in the same period of the prior year.

#### Fair Values—Goodwill

During 2016, we recorded goodwill associated with the MRD Merger, which represented the cost of the acquired entity over the net amounts assigned to assets acquired and liabilities assumed. Goodwill is assessed for impairment whenever events or circumstances indicate that impairment of the carrying value of goodwill is likely, but no less often than annually. Our policy is to first assess qualitative factors in order to determine whether fair value is more likely than not less than carrying value. Certain qualitative factors used in our evaluation include, among other things, the result of the most recent quantitative assessment of the goodwill impairment test, macroeconomic conditions; industry and market conditions (including commodity prices and cost factors); overall financial performance; and others relevant entity-specific events. If, after considering these events and circumstances, we determine that it is more likely than not that the fair value is less than carrying value, a quantitative goodwill test is performed. During fourth quarter 2017, we performed our annual qualitative assessment of goodwill to determine whether it was more likely than not that the fair value of our business (our reporting unit) was less than its carrying amount. Based on the results of this assessment, we determined it was not likely that goodwill was impaired. We are not aware of any events or circumstances that occurred during first nine months 2018 that would have more likely than not reduced the fair value of our reporting unit below its carrying value.

#### Fair Values—Non-recurring

Our proved natural gas and oil properties are reviewed for impairment periodically as events or changes in circumstances indicate the carrying amount may not be recoverable. In second quarter 2018, we increased our interest in certain properties in our shallow legacy oil and natural gas assets in Northwest Pennsylvania for a minimal dollar amount for which the fair value was previously determined to be zero. As a result, in second quarter 2018, we recorded additional impairment of \$15.3 million related to these properties. In first quarter 2018, there were indicators that the carrying value of certain of our oil gas properties in Oklahoma may be impaired and undiscounted future cash flows attributed to these assets indicated their carrying amounts were not expected to be recovered. Their remaining fair value was measured using a market approach based upon the potential sale of these properties, which is a Level 3 input. We recorded non-cash charges in first quarter 2018 of \$7.3 million related to these properties. In third quarter 2017, there were indicators that the carrying value of certain of our properties in Oklahoma and the Texas Panhandle may be impaired and undiscounted future cash flows attributed to these assets indicated their carrying amounts were not expected to be recovered. We also considered the potential sale of these assets. We recorded non-cash charges in third quarter 2017 of \$63.7 million related to these properties. The following presents the value of these assets measured at fair value on a non-recurring basis at the time impairment was recorded (in thousands):

Three Months Ended				Nine Months Ended			
September 30, 2018		2017		September 30, 2018		2017	
Fair		Fair		Fair		Fair	
Value	Impairment	Value	Impairment	Value	Impairment	Value	Impairment

Natural gas and oil properties	\$—	\$—	\$85,597	\$63,679	\$32,516	\$22,614	\$85,597	\$63,679
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## Fair Values—Reported

The following presents the carrying amounts and the fair values of our financial instruments as of September 30, 2018 and December 31, 2017 (in thousands):

	September 30, 2018		December 31, 2017	
	Carrying Value	Fair Value	Carrying Value	Fair Value
Assets:				
Commodity swaps, options and basis swaps	\$ 1,217	\$ 1,217	\$ 58,880	\$ 58,880
Marketable securities <sup>(a)</sup>	67,108	67,108	67,117	67,117
(Liabilities):				
Commodity swaps, options and basis swaps	(109,007 )	(109,007 )	(54,022 )	(54,022 )
Bank credit facility <sup>(b)</sup>	(1,266,000)	(1,266,000)	(1,211,000)	(1,211,000)
5.75% senior notes due 2021 <sup>(b)</sup>	(475,952 )	(489,555 )	(475,952 )	(493,872 )
5.00% senior notes due 2022 <sup>(b)</sup>	(580,032 )	(574,493 )	(580,032 )	(578,727 )
5.875% senior notes due 2022 <sup>(b)</sup>	(329,244 )	(334,439 )	(329,244 )	(339,200 )
Other senior notes due 2022 <sup>(b)</sup>	(590 )	(586 )	(590 )	(591 )
5.00% senior notes due 2023 <sup>(b)</sup>	(741,531 )	(728,576 )	(741,531 )	(735,614 )
4.875% senior notes due 2025 <sup>(b)</sup>	(750,000 )	(712,193 )	(750,000 )	(733,755 )
5.75% senior subordinated notes due 2021 <sup>(b)</sup>	(22,214 )	(22,825 )	(22,214 )	(22,192 )
5.00% senior subordinated notes due 2022 <sup>(b)</sup>	(19,054 )	(18,863 )	(19,054 )	(18,741 )
5.00% senior subordinated notes due 2023 <sup>(b)</sup>	(7,712 )	(7,567 )	(7,712 )	(7,614 )
Deferred compensation plan <sup>(c)</sup>	(112,827 )	(112,827 )	(114,414 )	(114,414 )

<sup>(a)</sup>Marketable securities, which are held in our deferred compensation plans, are actively traded on major exchanges.

<sup>(b)</sup>The book value of our bank debt approximates fair value because of its floating rate structure. The fair value of our senior notes and our senior subordinated notes is based on end of period market quotes which are Level 2 inputs.

<sup>(c)</sup>The fair value of our deferred compensation plan is updated at the closing price on the balance sheet date which is a Level 1 input.

Our current assets and liabilities include financial instruments, the most significant of which are trade accounts receivable and payable. We believe the carrying values of our current assets and liabilities approximate fair value. Our fair value assessment incorporates a variety of considerations, including (1) the short-term duration of the instruments and (2) our historical and expected incurrence of bad debt expense. Non-financial liabilities initially measured at fair value include asset retirement obligations. For additional information, see Note 10.

## Concentrations of Credit Risk

As of September 30, 2018, our primary concentrations of credit risk are the risks of not collecting accounts receivable and the risk of a counterparty's failure to perform under derivative obligations. Most of our receivables are from a diverse group of companies, including major energy companies, pipeline companies, local distribution companies, financial institutions and end-users in various industries. Letters of credit or other appropriate securities are obtained as deemed necessary to limit our risk of loss. Our allowance for uncollectable receivables was \$5.9 million at September 30, 2018 and \$7.1 million at December 31, 2017. Our derivative exposure to credit risk is diversified primarily among major investment grade financial institutions, where we have master netting agreements which provide for offsetting payables against receivables from separate derivative contracts. To manage counterparty risk associated with our derivatives, we select and monitor our counterparties based on our assessment of their financial strength and/or credit ratings. We may also limit the level of exposure with any single counterparty. At September 30,

2018, our derivative counterparties include twenty-one financial institutions, of which all but five are secured lenders in our bank credit facility. At September 30, 2018, our net derivative liability includes a net payable of \$23.9 million to these five counterparties that are not participants in our bank credit facility.

### (13) STOCK-BASED COMPENSATION PLANS

#### Stock-Based Awards

We have one active equity-based stock plan, our Amended and Restated 2005 Equity-Based Incentive Compensation Plan, which we refer to as the 2005 Plan. Under this plan, various awards may be issued to non-employee directors and employees pursuant to decisions of the Compensation Committee, which is composed of only non-employee, independent directors. To better align the timing of senior officer equity awards with our proxy statement filing in 2018, senior officer equity grants were in March 2018 rather than May, as in previous years.

#### Total Stock-Based Compensation Expense

Stock-based compensation represents amortization of restricted stock and performance units. Unlike the other forms of stock-based compensation, the mark-to-market adjustment of the liability related to the vested restricted stock held in our deferred

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compensation plan is directly tied to the change in our stock price and not directly related to the functional expenses and therefore, is not allocated to the functional categories. The following details the allocation of stock-based compensation to functional expense categories (in thousands):

	Three Months Ended		Nine Months Ended	
	September 30, 2018	September 30, 2017	September 30, 2018	September 30, 2017
Direct operating expense	\$537	\$517	\$1,667	\$1,563
Brokered natural gas and marketing expense	403	389	1,001	1,040
Exploration expense	405	561	1,527	1,596
General and administrative expense	5,607	9,959	38,332	35,156
Termination costs	—	(31 )	—	1,665
Total stock-based compensation	\$6,952	\$11,395	\$42,527	\$41,020

### Stock-Based Awards

**Restricted Stock Awards.** We grant restricted stock units under our equity-based stock compensation plan. These restricted stock units, which we refer to as restricted stock Equity Awards, generally vest over a three year period, contingent on the recipient's continued employment. The grant date fair value of the Equity Awards is based on the fair market value of our common stock on the date of grant.

The Compensation Committee also grants restricted stock to certain employees and non-employee directors of the board of directors as part of their compensation. We also grant restricted stock to certain employees for retention purposes. Compensation expense is recognized over the balance of the vesting period, which is typically three years for employee grants and immediate vesting for non-employee directors. All restricted stock awards are issued at prevailing market prices at the time of the grant and the vesting is based upon an employee's continued employment with us. Prior to vesting, all restricted stock awards have the right to vote such stock and receive dividends thereon. Upon grant of these restricted shares, which we refer to as restricted stock Liability Awards, the majority of these shares are generally placed in our deferred compensation plan and, upon vesting, withdrawals are allowed in either cash or in stock. These Liability Awards are classified as a liability and are remeasured at fair value each reporting period. This mark-to-market amount is reported in deferred compensation plan expense in the accompanying consolidated statements of operations. Historically, we have used authorized but unissued shares of stock when restricted stock is granted. However, we also utilize treasury shares when available.

**Stock-Based Performance Units.** We grant three types of performance share awards: two based on performance conditions measured against internal performance metrics (Production Growth Awards or "PG-PSUs" and Reserve Growth Awards or "RG-PSUs") and one based on market conditions measured based on Range's performance relative to a predetermined peer group (TSR Awards or "TSR-PSUs").

Each unit granted represents one share of our common stock. These units are settled in stock and the amount of the payout is based on (1) the vesting percentage, which can be from zero to 200% based on performance achieved and (2) the value of our common stock on the vesting date which is determined by the Compensation Committee. Dividend equivalents may accrue during the performance period and would be paid in stock at the end of the performance period. The performance period for the TSR-PSUs is three years. The performance period for the PG/RG-PSUs is based on annual performance targets earned over a three-year period.

**SARs.** At September 30, 2018, there were 1,104 SARs outstanding.



## Restricted Stock – Equity Awards

In first nine months 2018, we granted 1.8 million restricted stock Equity Awards to employees at an average price of \$16.97 which generally vest over a three-year period compared to 883,000 at an average price of \$32.81 in first nine months 2017. We recorded compensation expense for these awards of \$18.2 million in first nine months 2018 compared to \$18.1 million in the same period of 2017. Restricted stock Equity Awards are not issued to employees until such time as they are vested and the employees do not have the option to receive cash.

## Restricted Stock – Liability Awards

In first nine months 2018, we granted 877,000 shares of restricted stock Liability Awards as compensation to employees at an average price of \$15.30 which vests generally over a three-year period and 138,000 shares were granted to non-employee directors at an average price of \$15.54 with immediate vesting. The timing of equity grants to senior officers was moved to March 2018 to align with our proxy statement filings compared to grants in May in previous years. In first nine months 2017, we granted 451,000 shares of restricted stock Liability Awards as compensation to employees at an average price of \$25.95 with vesting generally over a three-year period and 90,000 shares were granted to non-employee directors at an average price of \$25.01 with immediate vesting. We recorded compensation expense for these Liability Awards of \$11.0 million in first nine months 2018 compared to \$12.0 million in first nine months 2017. The majority of these awards are held in our deferred compensation plan, are classified as a liability and are remeasured at fair value each reporting period. This mark-to-market amount is reported as deferred compensation expense in our consolidated statements of operations (see additional discussion below). The following is a summary of the status of our non-vested restricted stock outstanding at September 30, 2018:

	Restricted Stock		Restricted Stock	
	Equity Awards		Liability Awards	
	Weighted		Weighted	
	Average Grant		Average Grant	
	Shares	Date Fair Value	Shares	Date Fair Value
Outstanding at December 31, 2017	833,058	\$ 31.64	55,202	\$ 32.26
Granted	1,816,432	16.97	877,191	15.30
Vested	(792,382 )	23.76	(733,634 )	15.99
Forfeited	(191,332 )	21.74	(23,900 )	19.76
Outstanding at September 30, 2018	1,665,776	\$ 20.53	174,859	\$ 17.14

## Stock-Based Performance Units

Production Growth and Reserve Growth Awards. The PG-PSUs and RG-PSUs vest at the end of the three-year performance period. The performance metrics for each year are set by the Compensation Committee no later than March 31 of such year. If the performance metric for the applicable period is not met, then the portion is considered forfeited. The following is a summary of our non-vested PG/RG-PSUs awards outstanding at September 30, 2018:

Number of	Weighted
Units	Average Grant Date Fair Value

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Outstanding at December 31, 2017	122,921	\$ 18.66
Units granted <sup>(a)</sup>	440,938	15.22
Forfeited <sup>(b)</sup>	(27,061 )	23.03
Outstanding at September 30, 2018	536,798	\$ 15.61

<sup>(a)</sup> Amounts granted reflect the number of performance units granted; however, the actual payout of shares will be between zero and 200% depending on achievement of specifically identified performance targets.

<sup>(b)</sup> The first of three tranches of PG-PSUs granted in 2017 are considered forfeited as the performance metric was not met.

We recorded PG/RG-PSUs compensation expense of \$5.8 million in first nine months 2018 compared to \$124,000 in first nine months 2017.



TSR Awards. TSR-PSUs granted are earned, or not earned, based on the comparative performance of Range's common stock measured against a predetermined group of companies in the peer group over a three-year performance period. The fair value of the TSR-PSUs is estimated on the date of grant using a Monte Carlo simulation model which utilizes multiple input variables that determine the probability of satisfying the market condition stipulated in the award grant and calculates the fair value of the award. The fair value is recognized as stock-based compensation expense over the three year performance period. Expected volatilities utilized in the model were estimated using a combination of a historical period consistent with the remaining performance period of three years and option implied volatilities. The risk-free interest rate was based on the United States Treasury rate for a term commensurate with the life of the grant. The following assumptions were used to estimate the fair value of PSUs granted during first nine months 2018 and 2017:

	Nine Months Ended			
	September 30, 2018		2017	
Risk-free interest rate	2.42	%	1.49	%
Expected annual volatility	48	%	44	%
Grant date fair value per unit	\$18.51		\$26.26	

The following is a summary of our non-vested TSR – PSUs award activities:

	Weighted Average Grant Number of Date	
	Units	Fair Value
Outstanding at December 31, 2017	1,009,842	\$ 38.38
Units granted <sup>(a)</sup>	329,486	18.51
Vested and issued <sup>(b)</sup>	(73,985 )	56.81
Forfeited	(197,457 )	55.46
Outstanding at September 30, 2018	1,067,886	\$ 27.81

<sup>(a)</sup>These amounts reflect the number of performance units granted. The actual payout of shares may be between zero and 200% of the performance units granted depending on the total shareholder return ranking compared to our peer companies at the vesting date.

<sup>(b)</sup>Includes 73,985 TSR-PSUs awards issued related to the 2015 performance period where the return on our common stock was the 46<sup>th</sup> percentile for the February 2015 grant and 36<sup>th</sup> percentile for the May 2015 grant. The remaining 2015 awards are considered to be forfeited.

We recorded TSR-PSUs compensation expense of \$6.1 million in first nine months 2018 compared to \$9.7 million in the same period of 2017.

## SARs

Information with respect to our SARs activities is summarized below.

Shares      Weighted

Average

		Exercise Price
Outstanding at December 31, 2017	382,779	\$ 76.54
Expired/forfeited	(381,675)	75.97
Outstanding at September 30, 2018	1,104	\$ 81.74

## Other Postretirement Benefits

Effective fourth quarter 2017, as part of our officer succession plan, we implemented a postretirement benefit plan to assist in providing health care to officers who are active employees (including their spouses) and have met certain age and service requirements. These benefits are not funded in advance and are provided up to age 65 or at the date they become eligible for Medicare, subject to various cost-sharing features. In first nine months 2018, there were \$276,000 of estimated prior service costs amortized from accumulated other comprehensive income into general and administrative expense. Those employees that qualify for the new postretirement health care plan are also fully vested in all equity grants.

## Deferred Compensation Plan

Our deferred compensation plan gives non-employee directors and officers the ability to defer all or a portion of their salaries, bonuses or director fees and invest in Range common stock or make other investments at the individual's discretion. Range provides a partial matching contribution to officers which vests over three years. The assets of the plan are held in a grantor trust, which we refer to as the Rabbi Trust, and are therefore available to satisfy the claims of our general creditors in the event of bankruptcy or insolvency. Our stock held in the Rabbi Trust is treated as a liability award as employees are allowed to take withdrawals from the Rabbi Trust either in cash or in Range stock. The liability for the vested portion of the stock held in the Rabbi Trust is reflected as deferred compensation liability in the accompanying consolidated balance sheets and is adjusted to fair value each reporting period by a charge or credit to deferred compensation plan expense on our consolidated statements of operations. The assets of the Rabbi Trust, other than our common stock, are invested in marketable securities and reported at their market value as other assets in the accompanying consolidated balance sheets. The deferred compensation liability reflects the vested market value of the marketable securities and Range stock held in the Rabbi Trust. Changes in the market value of the marketable securities and changes in the fair value of the deferred compensation plan liability are charged or credited to deferred compensation plan expense each quarter. We recorded mark-to-market loss of \$223,000 in third quarter 2018 compared to mark-to-market gain of \$9.2 million in third quarter 2017. We recorded mark-to-market gain of \$559,000 in first nine months 2018 compared to a mark-to-market gain of \$36.8 million in first nine months 2017. The Rabbi Trust held 2.9 million shares (2.7 million of which were vested) of Range stock at September 30, 2018 compared to 2.9 million shares (2.8 million of which were vested) at December 31, 2017.

## (14) CAPITAL STOCK

We have authorized capital stock of 485.0 million shares which includes 475.0 million shares of common stock and 10.0 million shares of preferred stock. We currently have no preferred stock issued or outstanding. The following is a schedule of changes in the number of common shares outstanding since the beginning of 2017:

	Nine Months Ended September 30, 2018	Year Ended December 31, 2017
Beginning balance	248,129,430	247,144,356
Restricted stock grants	853,291	539,096
Restricted stock units vested	430,287	344,937
Performance stock units issued	73,985	85,461
Performance stock dividends	2,164	—
Treasury shares issued	4,900	15,580
Ending balance	249,494,057	248,129,430

(15) SUPPLEMENTAL CASH FLOW INFORMATION

	Nine Months Ended September 30,	
	2018	2017
	(in thousands)	
Net cash provided from operating activities included:		
Income taxes refunded (paid) to taxing authorities	\$ 7,521	\$ (98 )
Interest paid	(161,444 )	(136,863 )
Non-cash investing and financing activities included:		
Increase in asset retirement costs capitalized	20,452	6,460
(Decrease) increase in accrued capital expenditures	(107,070 )	52,289

## (16) COMMITMENTS AND CONTINGENCIES

## Litigation

We are the subject of, or party to, a number of pending or threatened legal actions, administrative proceedings and claims arising in the ordinary course of our business. While many of these matters involve inherent uncertainty, we believe that the amount of the liability, if any, ultimately incurred with respect to these actions, proceedings or claims will not have a material adverse effect on our consolidated financial position as a whole or on our liquidity, capital resources or future annual results of operations. We estimate and provide for potential losses that may arise out of litigation and regulatory proceedings to the extent that such losses are probable and can be reasonably estimated. We will continue to evaluate our litigation and regulatory proceedings quarterly and will establish and adjust any estimated liability as appropriate to reflect our assessment of the then current status of litigation and regulatory proceedings. Significant judgment is required in making these estimates and our final liabilities may ultimately be materially different.

## Transportation and Gathering Contracts

In first nine months 2018, our transportation and gathering commitments increased by approximately \$2.4 billion over the next twenty years (through 2038) primarily due to a new pipeline brought into service in Pennsylvania and pricing changes for current contracts.

## (17) OFFICE CLOSING AND TERMINATION COSTS

In first quarter 2017, we recorded accruals for severance, other personnel costs and accelerated vesting of stock-based compensation as part of a continuing effort to reduce our general and administrative expenses due, in part, to the lower commodity price environment. The following summarizes our termination costs for the three months and nine months ended September 30, 2018 and 2017 (in thousands):

	Three Months Ended		Nine Months Ended	
	September 30,		September 30,	
	2018	2017	2018	2017
Severance costs	\$(356 )	\$—	\$(356 )	\$2,422
Building lease	20	(16 )	(17 )	(37 )
Stock-based compensation	—	(31 )	—	1,664
Total termination costs	\$(336 )	\$(47 )	\$(373 )	\$4,049

The following details our accrued liability as of September 30, 2018 (in thousands):

	September 30,	
	2018	
Beginning balance at December 31, 2017	\$1,855	
Accrued severance costs	(356	)
Accrued building rent	(17	)

Payments	(1,417	)
Ending balance at September 30, 2018	\$65	

(18) SUSPENDED EXPLORATORY WELL COSTS

We capitalize exploratory well costs until a determination is made that the well has either found proved reserves or that it is impaired. Capitalized exploratory well costs are included in natural gas and oil properties in the accompanying consolidated balance sheets. If an exploratory well is determined to be impaired, the well costs are charged to exploration expense in the accompanying consolidated statements of operations. We do not have any suspended exploratory well costs as of September 30, 2018 or December 31, 2017.

(19) Costs Incurred for Property Acquisition, Exploration and Development <sup>(a)</sup>

	Nine Months	
	Ended	Year
	September Ended 30,	December 31,
	2018	2017
	(in thousands)	
Acquisitions:		
Acreage purchases	\$40,811	\$ 62,075
Oil and gas properties	1,683	18,269
Development	676,896	1,177,526
Exploration:		
Drilling	805	2,030
Expense	21,990	50,920
Stock-based compensation expense	1,527	2,742
Gas gathering facilities:		
Development	6,076	15,097
Subtotal	749,788	1,328,659
Asset retirement obligations	20,452	20,245
Total costs incurred	\$770,240	\$ 1,348,904

<sup>(a)</sup> Includes costs incurred whether capitalized or expensed.

## ITEM 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

### Overview of Our Business

We are a Fort Worth, Texas-based independent natural gas, natural gas liquids ("NGLs") and oil company engaged in the exploration, development and acquisition of natural gas and crude oil properties primarily in the Appalachian and North Louisiana regions of the United States. We operate in one segment and have a single company-wide management team that administers all properties as a whole rather than by discrete operating segments. We track only basic operational data by area. We do not maintain complete separate financial statement information by area. We measure financial performance as a single enterprise and not on a geographical or an area-by-area basis.

Our overarching business objective is to build stockholder value through returns-focused growth, on a per share debt-adjusted basis, of both reserves and production on a cost-efficient basis. Our strategy to achieve our business objective is to increase reserves and production through consistent internally generated drilling projects occasionally coupled with complementary acquisitions and divestitures of non-core assets. Our revenues, profitability and future growth depend substantially on prevailing prices for natural gas, NGLs, crude oil and condensate ("crude oil" or "oil") and on our ability to economically find, develop, acquire, produce and market natural gas, NGLs and crude oil reserves. The price risk on a portion of our production is mitigated using commodity derivative contracts. However, these derivative contracts are limited in duration. Prices for natural gas, NGLs and oil fluctuate widely and affect:

- revenues, profitability and cash flow;
- the quantity of natural gas, NGLs and oil we can economically produce;
- the quantity of natural gas, NGLs and oil shown as proved reserves;
- the amount of cash flows available for capital expenditures; and
- our ability to borrow and raise additional capital.

We prepare our financial statements in conformity with U.S. GAAP which requires us to make estimates and assumptions that affect our reported results of operations and the amount of our reported assets, liabilities and proved natural gas, NGLs and oil reserves. We use the successful efforts method of accounting for our natural gas, NGLs and oil activities.

The following discussion and analysis of our financial condition and results of operations should be read in conjunction with the preceding consolidated financial statements and notes in Item 1.

### Market Conditions

Prices for our products significantly impact our revenue, net income and cash flow. Natural gas, NGLs and oil are commodities and prices for these commodities are inherently volatile. The following table lists related benchmarks for natural gas, oil and NGLs for the three months and the nine months ended September 30, 2018 and 2017:

Benchmarks	Three Months Ended September 30,				Nine Months Ended September 30,			
	2018	2017	Change	%	2018	2017	Change	%
Average NYMEX prices <sup>(a)</sup>								
Natural gas (per mcf)	\$2.91	\$3.00	\$(0.09 )	(3 %)	\$2.90	\$3.15	\$(0.25 )	(8 %)
Oil (per bbl)	69.49	48.14	21.35	44 %	66.78	49.35	17.43	35 %
Mont Belvieu NGLs composite (per gallon) <sup>(b)</sup>	0.79	0.56	0.23	41 %	0.69	0.53	0.16	30 %

<sup>(a)</sup>Based on weighted average of bid week prompt month prices on the New York Mercantile Exchange ("NYMEX").

<sup>(b)</sup>Based on our estimated NGLs product composition per barrel.

Our price realizations may differ from the benchmarks for many reasons, including quality, location or production being sold at different indices.



Consolidated Results of Operations

Overview of Third Quarter 2018 Results

Our financial results are significantly impacted by commodity prices. For third quarter 2018, we experienced an increase in revenue from the sale of natural gas, NGLs and oil due to a 4% increase in net realized prices (average prices including all derivative settlements and third party transportation costs paid by us) and 14% higher production volumes when compared to the same quarter of

2017. Daily production in third quarter 2018 averaged 2.3 Bcfe compared to 2.0 Bcfe in the same period of the prior year with the increase due to our successful Marcellus horizontal drilling program. Average natural gas differentials improved \$0.39 per mcf while operating costs were lower when compared to the same period of 2017.

During third quarter 2018, we recognized net income of \$48.5 million, or \$0.19 per diluted common share compared to a net loss of \$127.7 million, or \$0.52 per diluted common share, during third quarter 2017. The increase in net income for third quarter 2018 from third quarter 2017 is primarily due to favorable derivative fair value income (or the non-cash fair value adjustments related to our derivatives), higher production volumes and realized prices along with lower proved and unproved property impairment charges.

Our third quarter 2018 financial and operating performance included the following results:

- 14% production growth over the same period of 2017;
- revenue from the sale of natural gas, NGLs and oil increased 45% from the same period of 2017 with a 27% increase in average realized prices (before cash settlements on our derivatives) and an increase in production volumes;
- revenue from the sale of natural gas, NGLs and oil (including cash settlements on our derivatives) increased 34% from the same period of 2017;
- reduced direct operating expenses per mcf 25% from the same period of 2017 (see discussion on page 38);
- reduced general and administrative expense per mcf 28% from the same period of 2017 (see discussion on page 38);
- reduced interest expense per mcf 4% from the same period of 2017;
- reduced our depletion, depreciation and amortization (“DD&A”) rate per mcf by 9% from the same period of 2017;
- entered into additional derivative contracts for 2018, 2019, 2020 and 2021;
- reduced our bank credit facility \$48.0 million from June 2018; and
- realized \$229.4 million of cash flow from operating activities.

We generated \$229.4 million of cash flow from operating activities in third quarter 2018, an increase of \$40.2 million from third quarter 2017, which reflects improvements in realized prices and higher production volumes somewhat offset by higher comparative working capital outflows (\$22.9 million outflow during third quarter 2018 compared to \$4.4 million inflow in third quarter 2017).

#### Overview of First Nine Months 2018 Results

For first nine months 2018, we experienced an increase in revenue from the sale of natural gas, NGLs and oil due to a 6% increase in net realized prices (average prices including all derivative settlements and third party transportation costs paid by us) and 14% higher production volumes when compared to the same period of 2017. Daily production in first nine months 2018 averaged 2.2 Bcfe compared to 2.0 Bcfe in the same period of the prior year as a result of drilling and completions in Pennsylvania. Average natural gas differentials improved \$0.30 per mcf while operating costs were higher when compared to the same period of 2017.

During first nine months 2018, we recognized net income of \$17.9 million, or \$0.07 per diluted common share compared to net income of \$112.0 million, or \$0.45 per diluted common share during the same period of 2017. The decrease in net income for first nine months 2018 from the same period of 2017 is primarily due to lower derivative fair value income or the non-cash fair value adjustments related to our derivatives somewhat offset by higher production volumes and realized prices and lower proved property impairment charges.

Our first nine months financial and operating performance included the following results:

- 14% production growth over the same period of 2017;
- liquids production represented 32% of total production on an mcfe basis compared to 33% in the same period of 2017;
- revenue from the sale of natural gas, NGLs and oil increased 33% from the same period of 2017 with a 17% increase in average realized prices (before cash settlements on our derivatives) and an increase in production volumes;
- revenue realized from the sale of natural gas, NGLs and oil (including cash settlements on our derivatives) increased 29% from the same period of 2017;
- trends in forward commodity prices compared to the prior year resulted in downward non-cash derivative fair value adjustments of \$283.9 million;
- decreased direct operating expenses per mcfe by 6% from the same period of 2017 (see discussion on page 38);
- decreased general and administrative expense per mcfe 10% from the same period of 2017 (see discussion on page 38);
- interest expense per mcfe was the same when compared to the same period of 2017;
- reduced our DD&A rate per mcfe by 8% from the same period of 2017;
- entered into additional derivative contracts for 2018, 2019, 2020 and 2021; and
- realized \$774.9 million of cash flow from operating activities.

We generated \$774.9 million of cash flow from operating activities in first nine months 2018, an increase of \$174.4 million from the same period of 2017 which reflects improvements in realized prices and higher production volumes somewhat offset by higher comparative working capital outflows (\$20.3 million outflow during first nine months 2018 compared to \$10.0 million outflow in the same period of 2017). We ended the quarter with \$452.6 million of available committed borrowing capacity, with an additional \$1.0 billion in borrowing base capacity.

## Adoption of New Accounting Standard

On January 1, 2018, we adopted the new revenue recognition accounting standards update. As a result of this adoption, we have modified our presentation of certain gas processing contracts. Results for reporting periods beginning after January 1, 2018 are presented based on the new accounting standards while prior period amounts are not adjusted and continue to be reported in accordance with our historical accounting. For additional information, see Note 3 and Note 5 to the consolidated financial statements. The impact of adoption of the new revenue recognition standard on the three and nine month period ended September 30, 2018 is as follows (in thousands):

	Three Months Ended		Nine Months Ended	
	September 30, 2018		September 30, 2018	
	Previous Revenue		Previous Revenue	
	Recognition		Recognition	
	As Reported	Method	As Reported	Method
Natural gas, NGLs and oil sales				
Natural gas	\$390,656	\$390,656	\$1,182,580	\$1,182,580
NGLs	278,563	230,816	705,793	578,074
Oil	67,212	67,212	206,077	206,077
Total	\$736,431	\$688,684	\$2,094,450	\$1,966,731
Transportation, gathering,				
processing and compression				
Natural gas	\$176,271	\$176,271	\$497,569	\$497,569
NGLs	128,291	80,544	321,531	193,812
Total	\$304,562	\$256,815	\$819,100	\$691,381
Net income	\$48,539	\$48,539	\$17,941	\$17,941

See Note 3 for a discussion of new accounting standards that affect us.

## Natural Gas, NGLs and Oil Sales, Production and Realized Price Calculations

Our revenues vary primarily as a result of changes in realized commodity prices and production volumes. Our revenues are generally recognized at the point in time that control of the product is transferred to the customer and collectability is reasonably assured.

In third quarter 2018, natural gas, NGLs and oil sales increased 45% compared to third quarter 2017 with a 27% increase in average realized prices (before cash settlements on our derivatives) and a 14% increase in average daily production. In first nine months 2018, natural gas, NGLs and oil sales increased 33% compared to the same period of 2017 with a 17% increase in average realized prices (before cash settlements on our derivatives) and a 14% increase in production. NGLs sales for the current year includes the impact of the adoption of the new revenue recognition standard, as described above. The following table illustrates the primary components of natural gas, NGLs, oil and condensate sales for the three months and nine months ended September 30, 2018 and 2017 (in thousands):

	Three Months Ended				Nine Months Ended			
	September 30, 2018	2017	Change	%	September 30, 2018	2017	Change	%
Natural gas, NGLs and oil sales								

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Natural gas	\$390,656	\$301,114	\$89,542	30%	\$1,182,580	\$1,009,000	\$173,580	17%
NGLs	278,563	150,593	127,970	85%	705,793	412,440	293,353	71%
Oil	67,212	55,834	11,378	20%	206,077	151,688	54,389	36%
Total natural gas, NGLs and								
oil sales	\$736,431	\$507,541	\$228,890	45%	\$2,094,450	\$1,573,128	\$521,322	33%

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Our production continues to grow through drilling success and additional NGLs extraction, which is partially offset by the natural production decline of our wells and non-core asset sales. Third quarter 2018 production volumes from the Marcellus Shale were 2.0 Bcfe per day, an increase of 25% when compared to the same period of 2017. Third quarter 2018 production volumes from our North Louisiana properties were approximately 278.0 Mmcfe per day. When compared to the same period of 2017, our North Louisiana production volumes declined 23%.

Production volumes from the Marcellus Shale in first nine months 2018 were 1.9 Bcfe per day. When compared to the same period of 2017, our Marcellus production volumes increased 24% for first nine months 2018. In first nine months 2018, production volumes from our North Louisiana properties were approximately 318.9 Mmcfe per day. When compared to the same period of 2017, our North Louisiana production volumes decreased 18%. Our production for the three months and nine months ended September 30, 2018 and 2017 is set forth in the following table:

	Three Months Ended				Nine Months Ended			
	September 30, 2018	2017	Change	%	September 30, 2018	2017	Change	%
Production <sup>(a)</sup>								
Natural gas (mcf)	140,757,676	121,644,949	19,112,727	16 %	411,769,576	357,389,113	54,380,463	15 %
NGLs (bbls)	10,255,159	8,892,778	1,362,381	15 %	29,009,100	25,953,773	3,055,327	12 %
Crude oil (bbls)	1,040,891	1,288,303	(247,412 )	(19 %)	3,314,704	3,406,373	(91,669 )	(3 %)
Total (mcfe) <sup>(b)</sup>	208,533,976	182,731,435	25,802,541	14 %	605,712,400	533,549,989	72,162,411	14 %
Average daily production <sup>(a)</sup>								
Natural gas (mcf)	1,529,975	1,322,228	207,747	16 %	1,508,313	1,309,118	199,195	15 %
NGLs (bbls)	111,469	96,661	14,808	15 %	106,260	95,069	11,191	12 %
Crude oil (bbls)	11,314	14,003	(2,689 )	(19 %)	12,142	12,478	(336 )	(3 %)
Total (mcfe) <sup>(b)</sup>	2,266,674	1,986,211	280,463	14 %	2,218,727	1,954,396	264,331	14 %

<sup>(a)</sup> Represents volumes sold regardless of when produced.

<sup>(b)</sup> Oil and NGLs are converted to mcfe at the rate of one barrel equals six mcf based upon the approximate relative energy content of oil to natural gas, which is not indicative of the relationship between oil and natural gas prices.

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Our average realized price received (including all derivative settlements and third-party transportation costs) during third quarter 2018 was \$1.90 per mcf compared to \$1.82 per mcf in third quarter 2017. Our average realized price received (including all derivative settlements and third party transportation costs) was \$2.04 per mcf in first nine months 2018 compared to \$1.93 per mcf in the same period of the prior year. We believe computed final realized prices should include the total impact of transportation, gathering, processing and compression expense. Our average realized price (including all derivative settlements and third-party transportation costs) calculation also includes all cash settlements for derivatives. Average realized prices (excluding derivative settlements) do not include derivative settlements or third party transportation costs which are reported in transportation, gathering, processing and compression expense on the accompanying consolidated statements of operations. Average realized prices (excluding derivative settlements) do include transportation costs where we receive net revenue proceeds from purchasers.

	Three Months Ended				Nine Months Ended			
	September 30,		Change	%	September 30,		Change	%
	2018	2017			2018	2017		
Average Prices								
Average realized prices (excluding derivative settlements):								
Natural gas (per mcf)	\$2.78	\$2.48	\$0.30	12 %	\$2.87	\$2.82	\$0.05	2 %
NGLs (per bbl)	27.16	16.93	10.23	60 %	24.33	15.89	8.44	53 %
Crude oil and condensate (per bbl)	64.57	43.34	21.23	49 %	62.17	44.53	17.64	40 %
Total (per mcf) <sup>(a)</sup>	3.53	2.78	0.75	27 %	3.46	2.95	0.51	17 %
Average realized prices (including all derivative settlements):								
Natural gas (per mcf)	\$2.82	\$2.69	\$0.13	5 %	\$3.01	\$2.92	\$0.09	3 %
NGLs (per bbl)	24.43	15.14	9.29	61 %	22.14	14.60	7.54	52 %
Crude oil and condensate (per bbl)	52.33	48.46	3.87	8 %	52.12	48.90	3.22	7 %
Total (per mcf) <sup>(a)</sup>	3.36	2.87	0.49	17 %	3.39	2.98	0.41	14 %
Average realized prices (including all derivative settlements and third party transportation costs paid by Range):								
Natural gas (per mcf)	\$1.56	\$1.60	\$(0.04 )	(2 %)	\$1.80	\$1.84	\$(0.04 )	(2 %)
NGLs (per bbl)	11.92	8.54	3.38	40 %	11.06	7.82	3.24	41 %
Crude oil and condensate (per bbl)	52.33	48.46	3.87	8 %	52.12	48.90	3.22	7 %
Total (per mcf) <sup>(a)</sup>	1.90	1.82	0.08	4 %	2.04	1.93	0.11	6 %

<sup>(a)</sup>Oil and NGLs are converted to mcf at the rate of one barrel equals six mcf based upon the approximate relative energy content of oil to natural gas, which is not indicative of the relationship between oil and natural gas prices. Realized prices include the impact of basis differentials and gains or losses realized from our basis hedging. The prices we receive for our natural gas can be more or less than the NYMEX price because of adjustments for delivery location, relative quality and other factors. The following table provides this impact on a per mcf basis:

	Three Months Ended		Nine Months Ended	
	September 30,		September 30,	
	2018	2017	2018	2017
Average natural gas differentials above or (below) NYMEX	\$(0.13)	\$(0.52)	\$(0.03)	\$(0.33)
Realized (losses) gains on basis hedging	\$(0.02)	\$0.01	\$(0.03)	\$0.03

The following tables reflect our production and average realized commodity prices (excluding derivative settlements and third party transportation costs paid by Range) (in thousands, except prices):

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Three Months Ended

Nine Months Ended

September 30

September 30

Price

Volume

Price

Volume

2017

Variance

Variance

2018

2017

Variance

Variance

2018

Natural gas

Price (per mcf)	\$2.48	\$0.30	\$—	\$2.78	\$2.82	\$0.05	\$—	\$2.87
Production (Mmcf)	121,645	—	19,113	140,758	357,389	—	54,381	411,770
Natural gas sales	\$301,114	\$42,231	\$47,311	\$390,656	\$1,009,000	\$20,050	\$153,530	\$1,182,580



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	Three Months Ended				Nine Months Ended			
	September 30				September 30			
	Price	Volume			Price	Volume		
	2017	Variance	Variance	2018	2017	Variance	Variance	2018
NGLs								
Price (per bbl)	\$ 16.93	\$ 10.23	\$ —	\$ 27.16	\$ 15.89	\$ 8.44	\$ —	\$ 24.33
Production (Mbbbls)	8,893	—	1,362	10,255	25,954	—	3,055	29,009
NGLs sales	\$ 150,593	\$ 104,899	\$ 23,071	\$ 278,563	\$ 412,440	\$ 244,800	\$ 48,553	\$ 705,793

	Three Months Ended				Nine Months Ended			
	September 30				September 30			
	Price	Volume			Price	Volume		
	2017	Variance	Variance	2018	2017	Variance	Variance	2018
Crude oil								
Price (per bbl)	\$ 43.34	\$ 21.23	\$ —	\$ 64.57	\$ 44.53	\$ 17.64	\$ —	\$ 62.17
Production (Mbbbls)	1,288	—	(247 )	1,041	3,406	—	(91 )	3,315
Crude oil sales	\$ 55,834	\$ 22,100	\$ (10,722 )	\$ 67,212	\$ 151,688	\$ 58,471	\$ (4,082 )	\$ 206,077

	Three Months Ended				Nine Months Ended			
	September 30				September 30			
	Price	Volume			Price	Volume		
	2017	Variance	Variance	2018	2017	Variance	Variance	2018
Consolidated								
Price (per mcf)	\$ 2.78	\$ 0.75	\$ —	\$ 3.53	\$ 2.95	\$ 0.51	\$ —	\$ 3.46
Production (Mmcf)	182,731	—	25,803	208,534	533,550	—	72,162	605,712

Total natural gas, NGLs and oil sales \$ 507,541 \$ 157,223 \$ 71,667 \$ 736,431 \$ 1,573,128 \$ 308,557 \$ 212,765 \$ 2,094,450

Transportation, gathering, processing and compression expense was \$304.6 million in third quarter 2018 compared to \$191.6 million in third quarter 2017. These third-party costs are higher in 2018 when compared to 2017 due to our production growth in the Marcellus Shale where we have third-party transportation, gathering, processing and compression agreements. Additionally, we experienced higher costs resulting from our adoption of the new revenue standard, new in-service pipelines, higher NGLs costs due to higher production and prices and higher NGLs expense in North Louisiana due to fully utilizing amounts that were previously accrued for capacity commitments. We have included these costs in the calculation of average realized prices (including all derivative settlements and third-party transportation expenses paid by Range).

Transportation, gathering processing and compression was \$819.1 million in first nine months 2018 compared to \$560.9 million in first nine months 2017. These third-party costs are higher in 2018 when compared to 2017 due to new in-service pipelines, higher Marcellus production volumes, higher NGLs expense in North Louisiana due to fully utilizing amounts that were previously accrued for capacity commitments and the impact of our adoption of the new revenue recognition accounting standard. For additional information, see Adoption of New Accounting Standard

above. We have included these costs in the calculation of average realized prices (including all derivative settlements and third-party transportation expenses paid by Range). The following table summarizes transportation, gathering, processing and compression expense for the three months and nine months ended September 30, 2018 and 2017 (in thousands) and on a per mcf and per barrel basis:

	Three Months Ended September 30,					Nine Months Ended September 30,			
	2018	2017	Change	%		2018	2017	Change	%
Natural gas	\$176,271	\$133,019	\$43,252	33 %		\$497,569	\$384,769	\$112,800	29 %
NGLs	128,291	58,626	69,665	119 %		321,531	176,114	145,417	83 %
Total	\$304,562	\$191,645	\$112,917	59 %		\$819,100	\$560,883	\$258,217	46 %
Natural gas (per mcf)	\$1.25	\$1.09	\$0.16	15 %		\$1.21	\$1.08	\$0.13	12 %
NGLs (per bbl)	\$12.51	\$6.59	\$5.92	90 %		\$11.08	\$6.79	\$4.29	63 %

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Derivative fair value (loss) income was a loss of \$34.6 million in third quarter 2018 compared to a loss of \$88.4 million in third quarter 2017. Derivative fair value (loss) income was a loss of \$151.9 million in first nine months 2018 compared to a gain of \$188.3 million in the same period of 2017. All of our derivatives are accounted for using the mark-to-market accounting method. Mark-to-market accounting treatment can result in more volatility of our revenues as the change in the fair value of our commodity derivative positions is included in total revenue. As commodity prices increase or decrease, such changes will have an opposite effect on the mark-to-market value of our derivatives. Gains on our derivatives generally indicate potentially lower wellhead revenues in the future while losses indicate potentially higher future wellhead revenues. The following table summarizes the impact of our commodity derivatives for the three months and nine months ended September 30, 2018 and 2017 (in thousands):

	Three Months Ended		Nine Months Ended	
	September 30, 2018	2017	September 30, 2018	2017
Derivative fair value (loss) income per consolidated statements of operations	\$(34,591)	\$(88,426)	\$(151,890)	\$188,326
Non-cash fair value gain (loss): <sup>(1)</sup>				
Natural gas derivatives	\$3,326	\$(16,409)	\$(89,556)	\$155,827
Oil derivatives	(5,659)	(18,991)	(33,416)	9,951
NGLs derivatives	2,529	(69,820)	11,329	6,505
Freight derivatives	135	(63)	25	(19)
Total non-cash fair value gain (loss) <sup>(1)</sup>	\$331	\$(105,283)	\$(111,618)	\$172,264
Net cash (payment) receipt on derivative settlements:				
Natural gas derivatives	\$5,845	\$26,250	\$56,466	\$34,647
Oil derivatives	(12,744)	6,602	(33,303)	14,874
NGL derivatives	(28,023)	(15,995)	(63,435)	(33,459)
Total net cash (payment) receipt	\$(34,922)	\$16,857	\$(40,272)	\$16,062

<sup>(1)</sup>Non-cash fair value adjustments on commodity derivatives is a non-U.S. GAAP measure. Non-cash fair value adjustments on commodity derivatives only represent the net change between periods of the fair market values of commodity derivative positions and exclude the impact of settlements on commodity derivatives during the period. We believe that non-cash fair value adjustments on commodity derivatives is a useful supplemental disclosure to differentiate non-cash fair market value adjustments from settlements on commodity derivatives during the period. Non-cash fair value adjustments on commodity derivatives is not a measure of financial or operating performance under U.S. GAAP, nor should it be considered a substitute for derivative fair value income or loss as reported in our consolidated statements of operations.

Brokered natural gas, marketing and other revenue in third quarter 2018 was \$109.4 million compared to \$63.1 million in third quarter 2017 with significantly higher brokered sales volumes and prices. Brokered natural gas marketing and other revenue in first nine months 2018 was \$267.4 million compared to \$170.5 million in the same period of the prior year due to significantly higher brokered sales volumes.

### Operating Costs per Mcfe

We believe some of our expense fluctuations are best analyzed on a unit-of-production, or per mcfe, basis. The following presents information about certain of our expenses on a per mcfe basis for the three months and nine months ended September 30, 2018 and 2017:

Three Months Ended	Nine Months Ended
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	September 30,				September 30,			
	2018	2017	Change	%	2018	2017	Change	%
Direct operating expense	\$0.15	\$0.20	\$ (0.05 )	(25 %)	\$0.17	\$0.18	\$ (0.01 )	(6 %)
Production and ad valorem tax expense	0.05	0.07	(0.02 )	(29 %)	0.05	0.06	(0.01 )	(17 %)
General and administrative expense	0.21	0.29	(0.08 )	(28 %)	0.26	0.29	(0.03 )	(10 %)
Interest expense	0.26	0.27	(0.01 )	(4 %)	0.27	0.27	—	— %
Depletion, depreciation and amortization expense	0.79	0.87	(0.08 )	(9 %)	0.80	0.87	(0.07 )	(8 %)

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Direct operating expense was \$30.9 million in third quarter 2018 compared to \$36.9 million in third quarter 2017. Direct operating expenses include normally recurring expenses to operate and produce our wells, non-recurring well workovers and repair-related expenses. Our direct operating costs decreased in third quarter 2018 primarily due to lower utilities, lower workover costs and the sale of our Northern Oklahoma properties. Our production volumes increased 14% in third quarter 2018. We incurred \$1.4 million (\$0.01 per mcfe) of workover costs in third quarter 2018 compared to \$3.5 million (\$0.02 per mcfe) in third quarter 2017. On a per mcfe basis, direct operating expense in third quarter 2018 decreased 25% to \$0.15 from \$0.20 in the same period of 2017 with the decrease resulting from lower workovers, lower utility costs, lower overhead costs and the sale of our Northern Oklahoma properties.

Direct operating expense was \$104.1 million in first nine months 2018 compared to \$96.3 million in the same period of 2017. Our direct operating costs increased in first nine months 2018 compared to the same period of 2017 due to higher water hauling/handling costs and higher contract pumping costs. Our production volumes increased 14% in first nine months 2018. We incurred \$6.3 million of workover costs in first nine months 2018 compared to \$6.9 million in the same period of 2017. On a per mcfe basis, direct operating expense in first nine months 2018 decreased 6% to \$0.17 from \$0.18 in the same period of 2017 with the decrease resulting from lower utility costs. The following table summarizes direct operating expenses per mcfe for the three months and the nine months ended September 30, 2018 and 2017:

	Three Months Ended				Nine Months Ended			
	September 30,				September 30,			
	2018	2017	Change	%	2018	2017	Change	%
Lease operating expense	\$0.14	\$0.18	\$ (0.04 )	(22%)	\$0.16	\$0.17	\$ (0.01 )	(6%)
Workovers	0.01	0.02	(0.01 )	(50%)	0.01	0.01	—	—%
Stock-based compensation (non-cash)	—	—	—	— %	—	—	—	—%
Total direct operating expense	\$0.15	\$0.20	\$ (0.05 )	(25%)	\$0.17	\$0.18	\$ (0.01 )	(6%)

Production and ad valorem taxes are paid based on market prices rather than hedged prices. This expense category also includes the Pennsylvania impact fee. Production and ad valorem taxes (excluding the impact fee) were \$3.4 million in third quarter 2018 compared to \$4.1 million in third quarter 2017 due to increase in volumes not subject to production taxes. In February 2012, the Commonwealth of Pennsylvania enacted an “impact fee” which functions as a tax on unconventional natural gas and oil production from the Marcellus Shale in Pennsylvania. Included in third quarter 2018 is a \$6.1 million impact fee compared to \$7.9 million in third quarter 2017. Production and ad valorem taxes (excluding the impact fee) were \$10.5 million in first nine months 2018 compared to \$8.4 million in the same period of 2017 due to higher commodity prices and higher volumes subject to production taxes. Included in first nine months 2018 is \$19.0 million impact fee compared to \$22.7 million in the same period 2017. The following table summarizes production and ad valorem taxes per mcfe for the three months and the nine months ended September 30, 2018 and 2017:

	Three Months Ended				Nine Months Ended			
	September 30,				September 30,			
	2018	2017	Change	%	2018	2017	Change	%
Production taxes	\$0.01	\$0.02	\$ (0.01 )	(50%)	\$0.01	\$0.01	\$ —	— %
Ad valorem taxes	0.01	0.01	—	— %	0.01	0.01	—	— %
Impact fee	0.03	0.04	(0.01 )	(25%)	0.03	0.04	(0.01 )	(25%)
Total production and ad valorem taxes	\$0.05	\$0.07	\$ (0.02 )	(29%)	\$0.05	\$0.06	\$ (0.01 )	(17%)

General and administrative (“G&A”) expense was \$43.7 million in third quarter 2018 compared to \$53.0 million in third quarter 2017. The third quarter 2018 decrease of \$9.3 million when compared to the same period of 2017 is primarily due to lower stock-based compensation of \$4.4 million and lower legal settlements partially offset by higher technology and legal costs. At September 30, 2018, the number of G&A employees increased 6% when compared to September 30, 2017. On a per mcfe basis, third quarter 2018 G&A expense decreased 28% from third quarter 2017

due to lower stock-based compensation costs and lower legal settlements and the impact of higher production volumes.

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G&A expense for first nine months 2018 increased by \$6.9 million when compared to the same period of the prior year due to higher stock-based compensation costs of \$3.2 million, higher severance costs, higher land and legal consulting costs and higher technology costs. The higher stock-based compensation costs are related to those officers that qualified for the postretirement plan implemented in fourth quarter 2017 and therefore also qualified for accelerated vesting of equity grants. In addition, the timing of senior executive equity grants was moved from May to March in 2018 to better align with our proxy statement filings. On a per mcfe basis, G&A expense for first nine months 2018 decreased 10% from first nine months 2017 due to the impact of higher production volumes. The following table summarizes G&A expenses per mcfe for the three months and nine months ended September 30, 2018 and 2017:

Three	Nine
Months	Months
Ended	Ended
September	September
30,	30,