
**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**
WASHINGTON, DC 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, 2017

Transition Report Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

For the transition period from _____ to _____

Commission file number: 1-13105



(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction
of incorporation or organization)

43-0921172

(I.R.S. Employer
Identification Number)

One CityPlace Drive, Suite 300, St. Louis, Missouri

(Address of principal executive offices)

63141

(Zip code)

Registrant's telephone number, including area code: **(314) 994-2700**

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 and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes No

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

Large accelerated filer

Accelerated filer

Non-accelerated filer

Smaller reporting company

(Do not check if a 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 Securities Act.

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

Indicate by check mark whether the registrant has filed all documents and reports required to be filed by Sections 12, 13 or 15(d) of the Securities Exchange Act of 1934 subsequent to the distribution of securities under a plan confirmed by a court. Yes No

At October 24, 2017, there were 21,934,787 shares of the registrant's common stock outstanding.

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Part I
FINANCIAL INFORMATION

Item 1. Financial Statements.

Arch Coal, Inc. and Subsidiaries
Condensed Consolidated Statements of Operations
(in thousands, except per share data)

	Successor	Predecessor	Successor	Predecessor
	Three Months Ended September 30, 2017	Three Months Ended September 30, 2016	Nine Months Ended September 30, 2017	Nine Months Ended September 30, 2016
	(Unaudited)	(Unaudited)	(Unaudited)	(Unaudited)
Revenues	\$ 613,538	\$ 550,305	\$ 1,764,379	\$ 1,398,709
Costs, expenses and other operating				
Cost of sales (exclusive of items shown separately below)	495,424	442,462	1,391,872	1,264,464
Depreciation, depletion and amortization	31,914	69,423	94,536	191,581
Accretion on asset retirement obligations	7,580	7,965	22,826	24,321
Amortization of sales contracts, net	13,861	104	42,903	(728)
Change in fair value of coal derivatives and coal trading activities, net	1,028	488	2,745	2,856
Asset impairment and mine closure costs	—	46	—	129,267
Selling, general and administrative expenses	21,052	20,498	63,721	59,343
Gain on sale of Lone Mountain Processing, Inc.	(21,574)	—	(21,574)	—
Other operating income, net	(8,236)	(2,476)	(14,095)	(15,257)
	541,049	538,510	1,582,934	1,655,847
Income (loss) from operations	72,489	11,795	181,445	(257,138)
Interest expense, net				
Interest expense	(5,972)	(46,164)	(21,400)	(135,888)
Interest and investment income	720	582	2,089	2,653
	(5,252)	(45,582)	(19,311)	(133,235)
Income (loss) before nonoperating expenses	67,237	(33,787)	162,134	(390,373)
Nonoperating expenses				
Net loss resulting from early retirement of debt and debt restructuring	(486)	—	(2,547)	(2,213)
Reorganization items, net	(43)	(20,904)	(2,892)	(46,050)
	(529)	(20,904)	(5,439)	(48,263)
Income (loss) before income taxes	66,708	(54,691)	156,695	(438,636)
Benefit from income taxes	(1,643)	(3,270)	(484)	(4,626)
Net income (loss)	<u>\$ 68,351</u>	<u>\$ (51,421)</u>	<u>\$ 157,179</u>	<u>\$ (434,010)</u>
Net income (loss) per common share				
Basic earnings (loss) per common share	<u>\$ 2.90</u>	<u>\$ (2.41)</u>	<u>\$ 6.44</u>	<u>\$ (20.38)</u>
Diluted earnings (loss) per common share	<u>\$ 2.83</u>	<u>\$ (2.41)</u>	<u>\$ 6.32</u>	<u>\$ (20.38)</u>
Weighted average shares outstanding				
Basic weighted average shares outstanding	<u>23,580</u>	<u>21,293</u>	<u>24,416</u>	<u>21,293</u>
Diluted weighted average shares outstanding	<u>24,135</u>	<u>21,293</u>	<u>24,875</u>	<u>21,293</u>
Dividends declared per common share	<u>\$ 0.35</u>	<u>\$ —</u>	<u>\$ 0.70</u>	<u>\$ —</u>

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

Arch Coal, Inc. and Subsidiaries
Condensed Consolidated Statements of Comprehensive Income (Loss)
(in thousands)

	Successor	Predecessor	Successor	Predecessor
	Three Months Ended September 30, 2017	Three Months Ended September 30, 2016	Nine Months Ended September 30, 2017	Nine Months Ended September 30, 2016
	(Unaudited)	(Unaudited)	(Unaudited)	(Unaudited)
Net income (loss)	\$ 68,351	\$ (51,421)	\$ 157,179	\$ (434,010)
Derivative instruments				
Comprehensive income (loss) before tax	(19)	(149)	257	(535)
Income tax benefit (provision)	—	—	—	81
	(19)	(149)	257	(454)
Pension, postretirement and other post-employment benefits				
Comprehensive income (loss) before tax	(8,521)	2,243	(5,367)	(1,844)
Income tax benefit (provision)	—	—	—	481
	(8,521)	2,243	(5,367)	(1,363)
Available-for-sale securities				
Comprehensive income (loss) before tax	—	(438)	(387)	2,969
Income tax benefit (provision)	—	—	—	(1,043)
	—	(438)	(387)	1,926
Total other comprehensive income (loss)	(8,540)	1,656	(5,497)	109
Total comprehensive income (loss)	\$ 59,811	\$ (49,765)	\$ 151,682	\$ (433,901)

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

Arch Coal, Inc. and Subsidiaries
Condensed Consolidated Balance Sheets
(in thousands, except per share data)

	September 30, 2017	December 31, 2016
	(Unaudited)	
Assets		
Current assets		
Cash and cash equivalents	\$ 298,337	\$ 305,372
Short term investments	154,629	88,072
Restricted cash	—	71,050
Trade accounts receivable	207,059	184,483
Other receivables	23,473	19,877
Inventories	122,436	113,462
Other current assets	63,685	96,306
Total current assets	869,619	878,622
Property, plant and equipment, net	980,801	1,053,603
Other assets		
Equity investments	106,179	96,074
Other noncurrent assets	65,934	108,298
Total other assets	172,113	204,372
Total assets	\$ 2,022,533	\$ 2,136,597
Liabilities and Stockholders' Equity		
Current Liabilities		
Accounts payable	\$ 137,664	\$ 95,953
Accrued expenses and other current liabilities	164,939	205,240
Current maturities of debt	8,566	11,038
Total current liabilities	311,169	312,231
Long-term debt	312,604	351,841
Asset retirement obligations	334,479	337,227
Accrued pension benefits	17,884	38,884
Accrued postretirement benefits other than pension	104,733	101,445
Accrued workers' compensation	192,262	184,568
Other noncurrent liabilities	76,923	63,824
Total liabilities	1,350,054	1,390,020
Stockholders' equity		
Common stock, \$0.01 par value, authorized 300,000 shares, issued 25,038 shares and 25,002 shares at September 30, 2017 and December 31, 2016, respectively	250	250
Paid-in capital	697,324	688,424
Retained earnings	173,676	33,449
Treasury stock, 2,919 shares at September 30, 2017, at cost	(217,728)	—
Accumulated other comprehensive income	18,957	24,454
Total stockholders' equity	672,479	746,577
Total liabilities and stockholders' equity	\$ 2,022,533	\$ 2,136,597

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

Arch Coal, Inc. and Subsidiaries
Condensed Consolidated Statements of Cash Flows
(in thousands)

	Successor	Predecessor
	Nine Months Ended September 30, 2017 (Unaudited)	Nine Months Ended September 30, 2016 (Unaudited)
Operating activities		
Net income (loss)	\$ 157,179	\$ (434,010)
Adjustments to reconcile to cash provided by operating activities:		
Depreciation, depletion and amortization	94,536	191,581
Accretion on asset retirement obligations	22,826	24,321
Amortization of sales contracts, net	42,903	(728)
Prepaid royalties expensed	2,905	4,791
Deferred income taxes	6,069	(419)
Employee stock-based compensation expense	7,485	2,096
Gains on disposals and divestitures, net	(23,006)	(6,628)
Asset impairment and non-cash mine closure costs	—	119,194
Net loss resulting from early retirement of debt and debt restructuring	2,547	2,213
Non-cash bankruptcy reorganization items	—	(16,634)
Amortization relating to financing activities	2,628	12,800
Changes in:		
Receivables	(24,110)	(42,787)
Inventories	(13,102)	34,604
Accounts payable, accrued expenses and other current liabilities	5,103	90,920
Income taxes, net	(2,430)	(4,217)
Other	20,612	(8,331)
Cash provided by (used in) operating activities	302,145	(31,234)
Investing activities		
Capital expenditures	(30,503)	(82,434)
Minimum royalty payments	(5,033)	(305)
Proceeds from (consideration paid for) disposals and divestitures	11,432	(2,921)
Purchases of short term investments	(191,327)	(98,750)
Proceeds from sales of short term investments	123,996	187,006
Investments in and advances to affiliates, net	(9,216)	(3,440)
Withdrawals of restricted cash	71,048	15,979
Cash provided by (used in) investing activities	(29,603)	15,135
Financing activities		
Proceeds from issuance of term loan due 2024	298,500	—
Payments to extinguish term loan due 2021	(325,684)	—
Payments on term loan due 2024	(1,500)	—
Net payments on other debt	(5,992)	(12,083)
Debt financing costs	(10,043)	(20,181)
Net loss resulting from early retirement of debt and debt restructuring	(2,360)	(2,213)
Dividends paid	(16,763)	—
Purchases of treasury stock	(215,735)	—
Cash used in financing activities	(279,577)	(34,477)
Decrease in cash and cash equivalents	(7,035)	(50,576)
Cash and cash equivalents, beginning of period	305,372	450,781
Cash and cash equivalents, end of period	\$ 298,337	\$ 400,205

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

Arch Coal, Inc. and Subsidiaries
Notes to Condensed Consolidated Financial Statements
(unaudited)

1. Basis of Presentation

The accompanying unaudited condensed consolidated financial statements include the accounts of Arch Coal, Inc. ("Arch Coal") and its subsidiaries (the "Company"). Unless the context indicates otherwise, the terms "Arch" and the "Company" are used interchangeably in this Quarterly Report on Form 10-Q and refer to both the Predecessor and Successor Company. The Company's primary business is the production of thermal and metallurgical coal from surface and underground mines located throughout the United States, for sale to utility, industrial and steel producers both in the United States and around the world. The Company currently operates mining complexes in West Virginia, Illinois, Wyoming and Colorado. All subsidiaries are wholly-owned. Intercompany transactions and accounts have been eliminated in consolidation.

The accompanying unaudited condensed consolidated financial statements have been prepared in accordance with accounting principles generally accepted in the United States for interim financial reporting and U.S. Securities and Exchange Commission regulations. In the opinion of management, all adjustments, consisting of normal, recurring accruals considered necessary for a fair presentation, have been included. Results of operations for the three and nine months ended September 30, 2017 are not necessarily indicative of results to be expected for the year ending December 31, 2017. These financial statements should be read in conjunction with the audited financial statements and related notes as of and for the year ended December 31, 2016 included in the Company's Annual Report on Form 10-K filed with the U.S. Securities and Exchange Commission.

On January 11, 2016 (the "Petition Date"), Arch Coal and substantially all of its wholly owned domestic subsidiaries (the "Filing Subsidiaries" and, together with Arch Coal, the "Debtors"; the Debtors, solely following the effective date of the Plan, the "Reorganized Debtors") filed voluntary petitions for reorganization (collectively, the "Bankruptcy Petitions") under Chapter 11 of Title 11 of the U.S. Code (the "Bankruptcy Code") in the United States Bankruptcy Court for the Eastern District of Missouri (the "Court"). The Debtors' Chapter 11 Cases (collectively, the "Chapter 11 Cases") were jointly administered under the caption *In re Arch Coal, Inc., et al.* Case No. 16-40120 (lead case). During the Chapter 11 Cases, each Debtor operated its business as a "debtor in possession" under the jurisdiction of the Court and in accordance with the applicable provisions of the Bankruptcy Code and the orders of the Court.

Upon emergence from bankruptcy on October 5, 2016, Arch Coal applied the provisions of fresh start accounting effective October 1, 2016 which resulted in Arch becoming a new entity for financial reporting purposes. Accordingly, the consolidated financial statements and accompanying footnotes on or after October 1, 2016 are not comparable to the consolidated financial statements prior to that date. References to "Successor" in the consolidated financial statements and footnotes are in reference to reporting dates on or after October 2, 2016; references to "Predecessor" in the consolidated financial statements and footnotes are in reference to reporting dates through October 1, 2016 which includes the impact of the Plan provisions and the application of fresh start accounting.

2. Accounting Policies

Recently Adopted Accounting Guidance

In March 2016, the FASB issued Accounting Standards Update No. 2016-09, Compensation – Stock Compensation (Topic 718) ("ASU 2016-09"). ASU 2016-09 identifies areas for simplification involving several aspects of accounting for share-based payment transactions, including the income tax consequences, classification of awards as either equity or liabilities, an option to recognize gross stock compensation expense with actual forfeitures recognized as they occur, as well as certain classifications on the statement of cash flows. The Company adopted all provisions of this new accounting standard in the first quarter of 2017 and changed its forfeiture policy to recognize the impact of forfeitures when they occur from estimating expected forfeitures in determining stock-based compensation expense. There was no material impact to the Company's financial statements.

Recent Accounting Guidance Issued Not Yet Effective

In May 2014, the FASB issued ASU No. 2014-09, "Revenue from Contracts with Customers." ASU 2014-09 is a comprehensive revenue recognition standard that will supersede nearly all existing revenue recognition guidance under current U.S. GAAP and replace it with a principle based approach for determining revenue recognition. ASU 2014-09 will require that companies recognize revenue based on the value of transferred goods or services as they occur in the contract. The ASU also will require additional disclosure about the nature, amount, timing and uncertainty of revenue and cash flows arising from customer contracts, including significant judgments and changes in judgments and assets recognized from costs incurred to obtain or fulfill a contract. ASU 2014-09 is effective for interim and annual periods beginning after December 15, 2017. Early adoption is permitted only in annual reporting periods beginning after December 15, 2016, including interim periods therein. Entities will be able to transition to the standard either retrospectively or as a cumulative-effect adjustment as of the date of adoption. The Company's primary source of revenue is from the sale of coal through both short-term and long-term contracts with utilities, industrial customers and steel producers whereby revenue is currently recognized when risk of loss has passed to the customer. Upon adoption of this new standard, the Company believes that the timing of revenue recognition related to its coal sales will remain consistent with its current practice. The Company is in the process of reviewing its portfolio of coal sales contracts and the various terms and clauses within each contract. Additionally, the Company is evaluating other revenue streams to determine the potential impact related to the adoption of the standard, as well as potential disclosures required by the standard. The Company will be adopting the standard under the modified retrospective approach.

In March 2017, the FASB issued ASU 2017-07, Compensation-Retirement Benefits (Topic 715) Improving the Presentation of Net Periodic Pension Cost and Net Periodic Postretirement Benefit Cost. ASU 2017-07 changes the income statement presentation of defined benefit plan expense by requiring separation between operating expense (service cost component) and non-operating expense (all other components, including interest cost, amortization of prior service cost, curtailments and settlements, etc.). The operating expense component is reported with similar compensation costs while the non-operating components are reported in Nonoperating expense. In addition, only the service cost component is eligible for capitalization as part of an asset such as inventory or property, plant and equipment. The Company is currently assessing the impact that adopting this new accounting standard will have on its consolidated financial statements. The ASU is effective for public companies for fiscal years beginning after December 15, 2017, and interim periods therein; early adoption is permitted.

3. Accumulated Other Comprehensive Income

The following items are included in accumulated other comprehensive income ("AOCI"):

	Derivative Instruments	Pension, Postretirement and Other Post- Employment Benefits	Available-for- Sale Securities	Accumulated Other Comprehensive Income
	(In thousands)			
Balance at December 31, 2016	\$ —	\$ 24,067	\$ 387	\$ 24,454
Unrealized gains (losses)	168	(5,784)	(55)	(5,671)
Amounts reclassified from AOCI	88	418	(332)	174
Balance at September 30, 2017	\$ 256	\$ 18,701	\$ —	\$ 18,957

The following amounts were reclassified out of AOCI:

Details About AOCI Components	Successor	Predecessor	Successor	Predecessor	Line Item in the Condensed Consolidated Statement of Operations
	Three Months Ended September 30, 2017	Three Months Ended September 30, 2016	Nine Months Ended September 30, 2017	Nine Months Ended September 30, 2016	
(In thousands)					
Derivative instruments	\$ (88)	\$ 76	\$ (88)	\$ 397	Revenues
	—	—	—	(81)	Benefit from income taxes
	<u>\$ (88)</u>	<u>\$ 76</u>	<u>\$ (88)</u>	<u>\$ 316</u>	Net of tax
Pension, postretirement and other post-employment benefits					
Amortization of prior service credits	\$ —	\$ 2,510	\$ —	\$ 7,854	
Amortization of actuarial gains (losses), net	—	(4,753)	—	(6,010)	
Pension settlement	228	—	715	—	
Actuarial curtailments	(773)	—	(773)	—	
Sale of Cumberland River pension plan	(360)	—	(360)	—	
	(905)	(2,243)	(418)	1,844	
	—	—	—	(481)	Benefit from income taxes
	<u>\$ (905)</u>	<u>\$ (2,243)</u>	<u>\$ (418)</u>	<u>\$ 1,363</u>	Net of tax
Available-for-sale securities					
	\$ —	\$ 632	\$ 332	\$ (2,263)	Interest and investment income
	—	—	—	1,038	Benefit from income taxes
	<u>\$ —</u>	<u>\$ 632</u>	<u>\$ 332</u>	<u>\$ (1,225)</u>	Net of tax

4. Divestitures

On September 14, 2017, the Company closed on its' definitive agreement to sell Lone Mountain Processing LLC, an operating mine complex within the Company's metallurgical coal segment, and two idled mining companies, Cumberland River Coal LLC and Powell Mountain Energy LLC to Revelation Energy LLC. The Company received \$8.3 million of proceeds offset by \$1.3 million in disbursements related to landholder consent fees and professional fees; and recorded a gain of \$21.6 million which is reflected as a separate line, "Gain on sale of Lone Mountain Processing, Inc.," within the Condensed Consolidated Statement of Operations. The gain included a \$4.7 million curtailment gain related to black lung liabilities accrued for active employees at these operations, \$0.5 million curtailment gain related to postretirement medical claims.

5. Reorganization items, net

In accordance with Accounting Codification Standard 852, “Reorganizations,” the statement of operations shall portray the results of operations of the reporting entity while it is in Chapter 11. Revenues, expenses (including professional fees), realized gains and losses, and provisions for losses resulting from reorganization and restructuring of the business shall be reported separately as reorganization items.

During the three months ended September 30, 2017 and 2016, the Company recorded a minimal charge and \$20.9 million, respectively in “Reorganization items, net” primarily comprised of professional fee expenses. Net cash paid for “Reorganization items, net” totaled \$0.2 million and \$16.0 million during the three months ended September 30, 2017 and 2016, respectively.

During the nine months ended September 30, 2017 and 2016, the Company recorded a charge of \$2.9 million and \$46.1 million, respectively, in “Reorganization items, net.” The 2017 amount is primarily comprised of professional fees and 2016 is comprised of \$62.7 million in professional fees, partially offset by non-cash gains on rejected contracts of \$16.6 million. Net cash paid for “Reorganization items, net” totaled \$4.8 million and \$31.1 million during the nine months ended September 30, 2017 and 2016, respectively.

6. Asset Impairment and Mine Closure Costs

During the second quarter of 2016, the Company recorded \$43.7 million of “Asset impairment and mine closure costs” in the Condensed Consolidated Statements of Operations. The amount included the following: a \$38.0 million impairment of the Company’s equity investment in a brownfield bulk commodity terminal on the Columbia River in Longview, Washington as the Company relinquished its ownership rights in exchange for future throughput rights; \$3.6 million curtailment charge related to the Company’s pension, postretirement health and black lung actuarial liabilities due to headcount reductions in the first half of 2016; and \$2.1 million of severance expense related to headcount reductions during the quarter.

During the first quarter of 2016, the Company recorded \$85.5 million of “Asset impairment and mine closure costs” in the Condensed Consolidated Statements of Operations. The amount included the following: a \$74.1 million impairment of coal reserves and surface land in Kentucky that are being leased to a mining company that idled its mining operations related to those reserves during the quarter; \$5.1 million of severance expense related to headcount reductions at Company operations; \$3.4 million related to an impairment charge on the portion of an advance royalty balance on a reserve base mined at the Company’s Mountain Laurel operation that was no longer deemed recoupable; and \$2.9 million related to an other-than-temporary-impairment charge on an available-for-sale security.

7. Inventories

Inventories consist of the following:

	September 30, 2017	December 31, 2016
	(In thousands)	
Coal	\$ 48,753	\$ 37,268
Repair parts and supplies	73,683	76,194
	<u>\$ 122,436</u>	<u>\$ 113,462</u>

The repair parts and supplies are stated net of an allowance for slow-moving and obsolete inventories of \$0.2 million at September 30, 2017 and \$0.0 million at December 31, 2016.

8. Investments in Available-for-Sale Securities

The Company has invested in marketable debt securities, primarily highly liquid U.S. Treasury securities and investment grade corporate bonds. These investments are held in the custody of a major financial institution. These securities, along with the Company’s investments in marketable equity securities, are classified as available-for-sale securities and, accordingly, the unrealized gains and losses are recorded through other comprehensive income.

The Company's investments in available-for-sale marketable securities are as follows:

September 30, 2017						
	Cost Basis	Gross Unrealized		Fair Value	Balance Sheet Classification	
		Gains	Losses		Short-Term Investments	Other Assets
(In thousands)						
Available-for-sale:						
U.S. treasury securities	\$ 60,870	\$ 41	\$ (15)	\$ 60,896	\$ 60,896	\$ —
Corporate notes and bonds	93,753	17	(37)	93,733	93,733	—
Total Investments	<u>\$ 154,623</u>	<u>\$ 58</u>	<u>\$ (52)</u>	<u>\$ 154,629</u>	<u>\$ 154,629</u>	<u>\$ —</u>

December 31, 2016						
	Cost Basis	Gross Unrealized		Fair Value	Balance Sheet Classification	
		Gains	Losses		Short-Term Investments	Other Assets
(In thousands)						
Available-for-sale:						
Corporate notes and bonds	\$ 88,161	\$ —	\$ (89)	\$ 88,072	\$ 88,072	\$ —
Equity securities	1,749	388	—	2,137	—	2,137
Total Investments	<u>\$ 89,910</u>	<u>\$ 388</u>	<u>\$ (89)</u>	<u>\$ 90,209</u>	<u>\$ 88,072</u>	<u>\$ 2,137</u>

The aggregate fair value of investments with unrealized losses that were owned for less than a year was \$82.2 million and \$47.6 million at September 30, 2017 and December 31, 2016, respectively. The aggregate fair value of investments with unrealized losses that were owned for over a year was \$8.1 million and \$40.4 million at September 30, 2017 and December 31, 2016, respectively. The unrealized losses in the Company's portfolio at September 30, 2017 are the result of normal market fluctuations. The Company does not currently intend to sell these investments before recovery of their amortized cost base.

The debt securities outstanding at September 30, 2017 have maturity dates ranging from the fourth quarter of 2017 through the first quarter of 2019. The Company classifies its investments as current based on the nature of the investments and their availability to provide cash for use in current operations.

9. Sales Contracts

The sales contracts reflected in the consolidated balance sheets are as follows:

	September 30, 2017			December 31, 2016		
	Assets	Liabilities	Net Total	Assets	Liabilities	Net Total
	(In thousands)			(In thousands)		
Original fair value	\$ 97,196	\$ 31,742		\$ 97,196	\$ 31,742	
Accumulated amortization	(73,482)	(29,782)		(25,625)	(24,829)	
Total	<u>\$ 23,714</u>	<u>\$ 1,960</u>	<u>\$ 21,754</u>	<u>\$ 71,571</u>	<u>\$ 6,913</u>	<u>\$ 64,658</u>
Balance Sheet classification:						
Other current	\$ 23,714	\$ 856		\$ 59,702	\$ 5,114	
Other noncurrent	\$ —	\$ 1,104		\$ 11,869	\$ 1,799	

The Company anticipates amortization of sales contracts, based upon expected shipments in the next five years, to be an expense of approximately \$11.4 million for the remainder of 2017, \$10.7 million in 2018, and income of \$0.1 million in each of 2019, 2020 and 2021.

10. Derivatives

Diesel fuel price risk management

The Company is exposed to price risk with respect to diesel fuel purchased for use in its operations. The Company anticipates purchasing approximately 40 to 42 million gallons of diesel fuel for use in its operations during 2017 and 2018. To protect the Company's cash flows from increases in the price of diesel fuel for its operations, the Company uses forward physical diesel purchase contracts and purchased heating oil call options. At September 30, 2017, the Company had protected the price of approximately 83% of its expected diesel fuel purchases for the remainder of 2017 at an average strike price of \$1.86 per gallon. Additionally, the Company has protected approximately 40% of its expected 2018 purchases with call options with an average strike price of \$1.81 per gallon. At September 30, 2017, the Company had outstanding heating oil call options for approximately 25 million gallons for the purpose of managing the price risk associated with future diesel purchases. These positions are not designated as hedges for accounting purposes, and therefore, changes in the fair value are recorded immediately to earnings.

Coal price risk management positions

The Company may sell or purchase forward contracts, swaps and options in the over-the-counter coal market in order to manage its exposure to coal prices. The Company has exposure to the risk of fluctuating coal prices related to forecasted, index-priced sales or purchases of coal or to the risk of changes in the fair value of a fixed price physical sales contract. Certain derivative contracts may be designated as hedges of these risks.

At September 30, 2017, the Company held derivatives for risk management purposes that are expected to settle in the following years:

(Tons in thousands)	2017	2018	Total
Coal sales	267	546	813
Coal purchases	252	185	437

The Company has also entered into a nominal quantity of natural gas put options to protect the Company from decreases in natural gas prices, which could impact thermal coal demand. These options are not designated as hedges. Additionally, the Company has also entered into a nominal quantity of foreign currency put options protecting for decreases in the Australian to United States dollar exchange rate, which could impact metallurgical coal demand. These options are not designated as hedges.

Coal trading positions

The Company may sell or purchase forward contracts, swaps and options in the over-the-counter coal market for trading purposes. The Company is exposed to the risk of changes in coal prices on the value of its coal trading portfolio. The estimated future realization of the value of the trading portfolio is \$0.5 million of losses during the remainder of 2017 and \$1.5 million of losses during 2018.

Tabular derivatives disclosures

The Company has master netting agreements with all of its counterparties which allow for the settlement of contracts in an asset position with contracts in a liability position in the event of default or termination. Such netting arrangements reduce the Company's credit exposure related to these counterparties. For classification purposes, the Company records the net fair value of all the positions with a given counterparty as a net asset or liability in the Condensed Consolidated Balance Sheets. The amounts shown in the table below represent the fair value position of individual contracts, and not the net position presented in the accompanying Condensed Consolidated Balance Sheets. The fair value and location of derivatives reflected in the accompanying Condensed Consolidated Balance Sheets are as follows:

Fair Value of Derivatives (In thousands)	September 30, 2017		December 31, 2016			
	Asset Derivative	Liability Derivative	Asset Derivative	Liability Derivative		
Derivatives Designated as Hedging Instruments						
Coal	\$ 3	\$ —	\$ —	\$ (15)		
Derivatives Not Designated as Hedging Instruments						
Heating oil -- diesel purchases	2,006	—	4,646	—		
Coal -- held for trading purposes	42,203	(44,211)	68,948	(68,740)		
Coal -- risk management	1,624	(1,915)	475	(580)		
Natural gas	25	—	86	(13)		
Total	45,858	(46,126)	74,155	(69,333)		
Total derivatives	45,861	(46,126)	74,155	(69,348)		
Effect of counterparty netting	(43,830)	43,830	(69,247)	69,247		
Net derivatives as classified in the balance sheets	\$ 2,031	\$ (2,296)	\$ (265)	\$ 4,908	\$ (101)	\$ 4,807

	September 30, 2017	December 31, 2016	
Net derivatives as reflected on the balance sheets (in thousands)			
Heating oil and coal	Other current assets	\$ 2,031	\$ 4,908
Coal	Accrued expenses and other current liabilities	(2,296)	(101)
		<u>\$ (265)</u>	<u>\$ 4,807</u>

The Company had a current asset for the right to reclaim cash collateral of \$9.3 million at September 30, 2017 and \$2.8 million at December 31, 2016, respectively. These amounts are not included with the derivatives presented in the table above and are included in “other current assets” in the accompanying Condensed Consolidated Balance Sheets.

The effects of derivatives on measures of financial performance are as follows:

Derivatives used in Cash Flow Hedging Relationships (in thousands)
Three Months Ended September 30,

	Gain (Loss) Recognized in Other Comprehensive Income (Effective Portion)		Gains (Losses) Reclassified from Other Comprehensive Income into Income (Effective Portion)	
	Successor	Predecessor	Successor	Predecessor
	2017	2016	2017	2016
Coal sales	(1) ⁽¹⁾ \$ (169)	\$ (612)	\$ —	\$ 108
Coal purchases	(2) ⁽²⁾ 152	541	—	(32)
Totals	\$ (17)	\$ (71)	\$ —	\$ 76

No ineffectiveness or amounts excluded from effectiveness testing relating to the Company’s cash flow hedging relationships were recognized in the results of operations in the three month periods ended September 30, 2017 and 2016.

Derivatives Not Designated as Hedging Instruments (in thousands)
Three Months Ended September 30,

		Gain (Loss) Recognized	
		Successor	Predecessor
		2017	2016
Coal — unrealized	(3)	\$ (212)	\$ (566)
Coal — realized	(4)	\$ —	\$ (133)
Natural gas — unrealized	(3)	\$ (120)	\$ (79)
Heating oil — diesel purchases	(4)	\$ 822	\$ (770)
Foreign currency	(4)	\$ —	\$ (314)

Location in statement of operations:

- (1) — Revenues
(2) — Cost of sales
(3) — Change in fair value of coal derivatives and coal trading activities, net
(4) — Other operating (income) expense, net

Derivatives used in Cash Flow Hedging Relationships (in thousands)
Nine Months Ended September 30,

		Gain (Loss) Recognized in Other Comprehensive Income (Effective Portion)		Gains (Losses) Reclassified from Other Comprehensive Income into Income (Effective Portion)	
		Successor	Predecessor	Successor	Predecessor
		2017	2016	2017	2016
Coal sales	(1)	\$ 100	\$ (672)	\$ —	\$ 1,634
Coal purchases	(2)	(82)	536	—	(1,237)
Totals		\$ 18	\$ (136)	\$ —	\$ 397

No ineffectiveness or amounts excluded from effectiveness testing relating to the Company's cash flow hedging relationships were recognized in the results of operations in the nine month periods ended September 30, 2017 and 2016.

Derivatives Not Designated as Hedging Instruments (in thousands)
Nine Months Ended September 30,

		Gain (Loss) Recognized	
		Successor	Predecessor
		2017	2016
Coal — unrealized	(3)	\$ (186)	\$ (1,662)
Coal — realized	(4)	\$ —	\$ (476)
Natural gas — unrealized	(3)	\$ (616)	\$ (463)
Heating oil — diesel purchases	(4)	\$ (3,903)	\$ 826
Foreign currency	(4)	\$ —	\$ (451)

Location in statement of operations:

- (1) — Revenues
(2) — Cost of sales
(3) — Change in fair value of coal derivatives and coal trading activities, net
(4) — Other operating (income) expense, net

Based on fair values at September 30, 2017, amounts on derivative contracts designated as hedge instruments in cash flow hedges to be reclassified from other comprehensive income into earnings during the next twelve months are immaterial.

Related to its trading portfolio, the Company recognized net unrealized and realized losses of \$0.7 million and net unrealized and realized gains \$0.1 million during the three months ended September 30, 2017 and 2016, respectively; and net unrealized and realized losses of \$2.2 million and \$0.9 million during the nine months ended September 30, 2017 and 2016, respectively. Gains and losses from trading activities are included in the caption "Change in fair value of coal derivatives and

coal trading activities, net” in the accompanying Condensed Consolidated Statements of Operations, and are not included in the previous tables reflecting the effects of derivatives on measures of financial performance.

11. Accrued Expenses and Other Current Liabilities

Accrued expenses and other current liabilities consist of the following:

	September 30, 2017	December 31, 2016
	(In thousands)	
Payroll and employee benefits	\$ 47,251	\$ 58,468
Taxes other than income taxes	74,909	92,733
Interest	156	8,032
Acquired sales contracts	856	5,114
Workers’ compensation	15,961	15,184
Asset retirement obligations	16,760	19,515
Other	9,046	6,194
	<u>\$ 164,939</u>	<u>\$ 205,240</u>

12. Debt and Financing Arrangements

	September 30, 2017	December 31, 2016
	(In thousands)	
Term loan due 2024 (\$298.5 million face value)	\$ 297,137	\$ —
Term loan due 2021 (\$325.7 million face value)	—	325,684
Other	31,319	37,195
Debt issuance costs	(7,286)	—
	<u>321,170</u>	<u>362,879</u>
Less: current maturities of debt	8,566	11,038
Long-term debt	<u>\$ 312,604</u>	<u>\$ 351,841</u>

Term Loan Facility

On March 7, 2017, the Company entered into a new senior secured term loan credit agreement in an aggregate principal amount of \$300 million (the “New Term Loan Debt Facility”) with Credit Suisse AG, Cayman Islands Branch, as administrative agent and collateral agent (in such capacities, the “Agent”), and the other financial institutions from time to time party thereto (collectively, the “Lenders”). The New Term Loan Debt Facility was issued at 99.50% of the face amount and will mature on March 7, 2024.

Borrowings under the New Term Loan Debt Facility bear interest at a per annum rate equal to, at the Company’s option, either (i) a London interbank offered rate plus an applicable margin of 4%, subject to a 1% LIBOR floor (the “LIBOR Rate”), or (ii) a base rate plus an applicable margin of 3%. The term loans provided under the New Term Loan Debt Facility (the “Term Loans”) are subject to quarterly principal amortization payments in an amount equal to \$750,000.

The New Term Loan Debt Facility is guaranteed by all existing and future wholly owned domestic subsidiaries of the Company (collectively, the “Subsidiary Guarantors”) and, together with Arch Coal, the “Loan Parties”), subject to customary exceptions, and is secured by first priority security interests on substantially all assets of the Loan Parties, including 100% of the voting equity interests of directly owned domestic subsidiaries and 65% of the voting equity interests of directly owned foreign subsidiaries, subject to customary exceptions.

The Company has the right to prepay Term Loans at any time and from time to time in whole or in part without premium or penalty, upon written notice, except that any prepayment of Term Loans that bear interest at the LIBOR Rate other than at the end of the applicable interest periods therefor shall be made with reimbursement for any funding losses and redeployment costs of the Lenders resulting therefrom.

The New Term Loan Debt Facility is subject to certain usual and customary mandatory prepayment events, including 100% of net cash proceeds of (i) debt issuances (other than debt permitted to be incurred under the terms of the New Term Loan Debt Facility) and (ii) non-ordinary course asset sales or dispositions, subject to customary thresholds, exceptions and reinvestment rights.

The New Term Loan Debt Facility contains customary affirmative covenants and representations.

The New Term Loan Debt Facility also contains customary negative covenants, which, among other things, and subject to certain exceptions, include restrictions on (i) indebtedness, (ii) liens, (iii) liquidations, mergers, consolidations and acquisitions, (iv) disposition of assets or subsidiaries, (v) affiliate transactions, (vi) creation or ownership of certain subsidiaries, partnerships and joint ventures, (vii) continuation of or change in business, (viii) restricted payments, (ix) prepayment of subordinated and junior lien indebtedness, (x) restrictions in agreements on dividends, intercompany loans and granting liens on the collateral, (xi) loans and investments, (xii) sale and leaseback transactions, (xiii) changes in organizational documents and fiscal year and (xiv) transactions with respect to bonding subsidiaries. The New Term Loan Debt Facility does not contain any financial maintenance covenant.

The New Term Loan Debt Facility contains customary events of default, subject to customary thresholds and exceptions, including, among other things, (i) nonpayment of principal and nonpayment of interest and fees, (ii) a material inaccuracy of a representation or warranty at the time made, (iii) a failure to comply with any covenant, subject to customary grace periods in the case of certain affirmative covenants, (iv) cross-events of default to indebtedness of at least \$50 million, (v) cross-events of default to surety, reclamation or similar bonds securing obligations with an aggregate face amount of at least \$50 million, (vi) uninsured judgments in excess of \$50 million, (vii) any loan document shall cease to be a legal, valid and binding agreement, (viii) uninsured losses or proceedings against assets with a value in excess of \$50 million, (ix) certain ERISA events, (x) a change of control or (xi) bankruptcy or insolvency proceedings relating to the Company or any material subsidiary of the Company.

On the effective date of the New Term Loan Debt Facility, all outstanding obligations under the Company's previously existing term loan credit agreement, dated as of October 5, 2016, among the Company, as borrower, the lender party thereto and Wilmington Trust, National Association, as administrative agent and collateral agent (the "Previous First Lien Debt Facility"), other than indemnification and other contingent obligations, were paid in cash in full and the related transaction documents were terminated (other than with respect to certain provisions that customarily survive termination); there was no gain or loss recognized on the extinguishment of the previously existing term loan credit agreement. All liens on property of the Company and the guarantors thereunder arising out of or related to the Previous First Lien Debt Facility were terminated.

First Amendment to Term Loan Facility

On September 25, 2017, the Company entered into the First Amendment (the "Amendment") to its Credit Agreement, dated as of March 7, 2017, among Arch Coal as borrower, the lenders from time to time party thereto, and Credit Suisse AG, Cayman Islands Branch, as administrative agent and collateral agent.

The Amendment reduces the interest rate on the \$300 million term loan facility to, at the option of Arch Coal, either (i) the London interbank offered rate ("LIBOR") plus an applicable margin of 3.25%, subject to a 1.00% LIBOR floor, or (ii) a base rate plus an applicable margin of 2.25%. The Amendment also resets the 1.00% call premium to apply to repricing events that occur on or prior to March 26, 2018.

Inventory-Based Revolving Credit Facility

On April 27, 2017, the Company and certain subsidiaries of Arch Coal entered into a new senior secured inventory-based revolving credit facility in an aggregate principal amount of \$40 million (the "New Inventory Facility") with Regions Bank ("Regions") as administrative agent and collateral agent (in such capacities, the "Agent"), as lender and swingline lender (in such capacities, the "Lender") and as letter of credit issuer. Availability under the New Inventory Facility is subject to a borrowing base consisting of (i) 85% of the net orderly liquidation value of eligible coal inventory, (ii) the lesser of (x) 85% of the net orderly liquidation value of eligible parts and supplies inventory and (y) 35% of the amount determined pursuant to clause (i), and (iii) 100% of Arch Coal's Eligible Cash (defined in the New Inventory Facility), subject to reduction for reserves imposed by Regions.

The commitments under the New Inventory Facility will terminate on the date that is the earliest to occur of (i) the third anniversary of the Inventory Facility Closing Date, (ii) the date, if any, that is 364 days following the first day that Liquidity (defined in the New Inventory Facility and consistent with the definition in the Extended Securitization Facility (as defined

below)) is less than \$250 million for a period of 60 consecutive days and (iii) the date, if any, that is 60 days following the maturity, termination or repayment in full of the Extended Securitization Facility.

Revolving loan borrowings under the New Inventory Facility bear interest at a per annum rate equal to, at the option of Arch Coal, either at the base rate or the London interbank offered rate plus, in each case, a margin ranging from 2.25% to 2.50% (in the case of LIBOR loans) and 1.25% to 1.50% (in the case of base rate loans) determined using a Liquidity-based grid. Letters of credit under the New Inventory Facility are subject to a fee in an amount equal to the applicable margin for LIBOR loans, plus customary fronting and issuance fees.

All existing and future direct and indirect domestic subsidiaries of Arch Coal, subject to customary exceptions, will either constitute co-borrowers under or guarantors of the New Inventory Facility (collectively with Arch Coal, the "Loan Parties"). The New Inventory Facility is secured by first priority security interests in the ABL Priority Collateral (defined in the New Inventory Facility) of the Loan Parties and second priority security interests in substantially all other assets of the Loan Parties, subject to customary exceptions (including an exception for the collateral that secures the Extended Securitization Facility).

Arch Coal has the right to prepay borrowings under the New Inventory Facility at any time and from time to time in whole or in part without premium or penalty, upon written notice, except that any prepayment of such borrowings that bear interest at the LIBOR rate other than at the end of the applicable interest periods therefore shall be made with reimbursement for any funding losses and redeployment costs of the Lender resulting therefrom.

The New Inventory Facility is subject to certain usual and customary mandatory prepayment events, including non-ordinary course asset sales or dispositions, subject to customary thresholds, exceptions (including exceptions for required prepayments under Arch Coal's term loan facility) and reinvestment rights.

The New Inventory Facility contains certain customary affirmative and negative covenants; events of default, subject to customary thresholds and exceptions; and representations, including certain cash management and reporting requirements that are customary for asset-based credit facilities. The New Inventory Facility also includes a requirement to maintain Liquidity equal to or exceeding \$175 million at all times. As of September 30, 2017, letters of credit totaling \$28.9 million were outstanding under the facility with no additional availability for borrowings.

Accounts Receivable Securitization Facility

On April 27, 2017, the Company extended and amended its existing trade accounts receivable securitization facility provided to Arch Receivable Company, LLC, a special-purpose entity that is a wholly owned subsidiary of Arch Coal ("Arch Receivable") (the "Extended Securitization Facility"), which supports the issuance of letters of credit and requests for cash advances. The amendment to the Extended Securitization Facility decreases the borrowing capacity from \$200 million to \$160 million and extends the maturity date to the date that is three years after the Securitization Facility Closing Date. Pursuant to the Extended Securitization Facility, Arch Receivable also agreed to a revised schedule of fees payable to the administrator and the providers of the Extended Securitization Facility.

The Extended Securitization Facility will terminate at the earliest of (i) three years from the Securitization Facility Closing Date, (ii) if the Liquidity (defined in the Extended Securitization Facility and consistent with the definition in the New Inventory Facility) is less than \$175 million for a period of 60 consecutive days, the date that is the 364th day after the first day of such 60 consecutive day period and (iii) the occurrence of certain predefined events substantially consistent with the existing transaction documents. Under the Extended Securitization Facility, Arch Receivable, Arch Coal and certain of Arch Coal's subsidiaries party to the Extended Securitization Facility have granted to the administrator of the Extended Securitization Facility a first priority security interest in eligible trade accounts receivable generated by such parties from the sale of coal and all proceeds thereof. As of September 30, 2017, letters of credit totaling \$89.3 million were outstanding under the facility which had a borrowing base of \$102.3 million. As a result, there was no cash collateral required to be posted in the facility.

Interest Rate Swaps

During the second quarter of 2017, the Company entered into a series of interest rate swaps to fix a portion of the LIBOR interest rate within the term loan. The interest rate swaps qualify for cash flow hedge accounting treatment and as such, the change in the fair value of the interest rate swaps are recorded on the Company's Condensed Consolidated Balance Sheet as an asset or liability with the effective portion of the gains or losses reported as a component of accumulated other comprehensive income and the ineffective portion reported in earnings. As interest payments are made on the term loan, amounts in accumulated other comprehensive income will be reclassified into earnings through interest expense to reflect a net interest on the term loan equal to the effective yield of the fixed rate of the swap plus 3.25% which is the spread on the revised LIBOR term loan. In the event that an interest rate swap is terminated prior to maturity, gains or losses in accumulated other comprehensive income will remain deferred and reclassified into earnings in the periods which the hedged forecasted transaction affects earnings.

Below is a summary of the Company's outstanding interest rate swap agreements designated as hedges as of September 30, 2017:

Notional Amount (in millions)	Effective Date	Fixed Rate	Receive Rate	Expiration Date
\$250.0	June 30, 2017	1.372%	1-month LIBOR	June 29, 2018
\$250.0	June 29, 2018	1.662%	1-month LIBOR	June 28, 2019
\$200.0	June 28, 2019	1.952%	1-month LIBOR	June 30, 2020
\$100.0	June 30, 2020	2.182%	1-month LIBOR	June 30, 2021

The fair value of the interest rate swaps at September 30, 2017 is an asset of \$0.2 million which is recorded within Other noncurrent assets with the offset to accumulated other comprehensive income on the Company's Condensed Consolidated Balance Sheet. The interest rate swaps are classified as level 2 within the fair value hierarchy.

Financing Costs

The Company paid financing costs of \$10.0 million during the nine months ended September 30, 2017; \$7.1 million of which related to the issuance of the New Term Loan Debt facility on March 7, 2017 as noted above. These issuance costs were capitalized during the first quarter and were being amortized using the effective interest method over the term of the facility. An additional \$0.8 million was paid related to the Amendment to the term loan facility on September 25, 2017 as discussed above. The remaining \$2.1 million is related to the inventory-based revolving credit facility and accounts receivable securitization facility. These issuance costs will be amortized on a straight-line basis over the term of the facility. During the nine months ended September 30, 2016, the Company paid \$20.2 million primarily related to the Superpriority Secured Debtor-in-Possession Credit Agreement related to the Company's bankruptcy filing.

The Company incurred \$2.4 million of legal and financial advisory fees associated with debt refinancing activities during the nine months ended September 30, 2017; \$1.3 million relates to fees associated with the extinguishment of the "Previous First Lien Debt Facility" and the Amendment to the term loan facility dated September 25, 2017, while the remaining amount relates to financing fees incurred from initial efforts to replace the existing accounts receivable securitization facility. The Company also incurred \$2.2 million in debt restructuring costs during the nine months ended September 30, 2016 related to debt restructuring activities prior to the Company's Chapter 11 filing.

Contractual Interest Expense During Bankruptcy

Upon the filing of bankruptcy, the Company discontinued recording interest expense on unsecured debt that was classified as a liability subject to compromise. Contractual interest expense during the three and nine months ended September 30, 2016 was \$101.5 million and \$300.9 million, respectively.

13. Income Taxes

A reconciliation of the statutory federal income tax provision (benefit) at the statutory rate to the actual provision for (benefit from) income taxes follows:

	Successor		Predecessor	
	Three Months Ended September 30, 2017	Three Months Ended September 30, 2016	Nine Months Ended September 30, 2017	Nine Months Ended September 30, 2016
(In thousands)				
Income tax provision (benefit) at statutory rate	\$ 23,347	\$ (19,143)	\$ 54,843	\$ (153,523)
Percentage depletion allowance	(7,708)	(11,041)	(20,439)	(30,799)
State taxes, net of effect of federal taxes	728	(2,195)	1,619	(9,256)
Change in valuation allowance	(19,118)	31,955	(39,336)	191,182
Other, net	1,108	(2,846)	2,829	(2,230)
	<u>\$ (1,643)</u>	<u>\$ (3,270)</u>	<u>\$ (484)</u>	<u>\$ (4,626)</u>

14. Fair Value Measurements

The hierarchy of fair value measurements assigns a level to fair value measurements based on the inputs used in the respective valuation techniques. The levels of the hierarchy, as defined below, give the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities and the lowest priority to unobservable inputs.

- Level 1 is defined as observable inputs such as quoted prices in active markets for identical assets. Level 1 assets include available-for-sale equity securities, U.S. Treasury securities, and coal futures that are submitted for clearing on the New York Mercantile Exchange.
- Level 2 is defined as observable inputs other than Level 1 prices. These include quoted prices for similar assets or liabilities in an active market, quoted prices for identical assets and liabilities in markets that are not active, or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities. The Company's level 2 assets and liabilities include U.S. government agency securities, interest rate swaps and commodity contracts (coal and heating oil) with fair values derived from quoted prices in over-the-counter markets or from prices received from direct broker quotes.
- Level 3 is defined as unobservable inputs in which little or no market data exists, therefore requiring an entity to develop its own assumptions. These include the Company's commodity option contracts (coal, natural gas and heating oil) valued using modeling techniques, such as Black-Scholes, that require the use of inputs, particularly volatility, that are rarely observable. Changes in the unobservable inputs would not have a significant impact on the reported Level 3 fair values at September 30, 2017.

The table below sets forth, by level, the Company's financial assets and liabilities that are recorded at fair value in the accompanying condensed consolidated balance sheet:

	September 30, 2017			
	Total	Level 1	Level 2	Level 3
(In thousands)				
Assets:				
Investments in marketable securities	\$ 154,629	\$ 60,896	\$ 93,733	\$ —
Derivatives	2,268	—	237	2,031
Total assets	<u>\$ 156,897</u>	<u>\$ 60,896</u>	<u>\$ 93,970</u>	<u>\$ 2,031</u>
Liabilities:				
Derivatives	<u>\$ 2,296</u>	<u>\$ 2,305</u>	<u>\$ 34</u>	<u>\$ (43)</u>

The Company's contracts with its counterparties allow for the settlement of contracts in an asset position with contracts in a liability position in the event of default or termination. For classification purposes, the Company records the net fair value of all

the positions with these counterparties as a net asset or liability. Each level in the table above displays the underlying contracts according to their classification in the accompanying Condensed Consolidated Balance Sheet, based on this counterparty netting.

The following table summarizes the change in the fair values of financial instruments categorized as Level 3.

	Three Months Ended September 30, 2017	Nine Months Ended September 30, 2017
	(In thousands)	
Balance, beginning of period	\$ 698	\$ 4,537
Realized and unrealized gains recognized in earnings, net	644	(4,756)
Purchases	891	3,444
Issuances	(16)	(515)
Settlements	(143)	(636)
Ending balance	<u>\$ 2,074</u>	<u>\$ 2,074</u>

Net unrealized gains of \$0.7 million and net unrealized losses of \$0.5 million were recognized in the Condensed Consolidated Statement of Operations within Other operating income, net during the three and nine months ended September 30, 2017 related to Level 3 financial instruments held on September 30, 2017.

Fair Value of Long-Term Debt

At September 30, 2017 and December 31, 2016, the fair value of the Company's debt, including amounts classified as current, was \$332.1 million and \$362.9 million, respectively. Fair values are based upon observed prices in an active market, when available, or from valuation models using market information, which fall into Level 2 in the fair value hierarchy.

15. Earnings (loss) per Common Share

The Company computes basic net income per share using the weighted average number of common shares outstanding during the period. Diluted net income per share is computed using the weighted average number of common shares and the effect of potentially dilutive securities outstanding during the period. Potentially dilutive securities may consist of warrants, restricted stock units or other contingently issuable shares. The dilutive effect of outstanding warrants, restricted stock units and other contingently issuable shares is reflected in diluted earnings per share by application of the treasury stock method.

The following table provides the basis for basic and diluted earnings (loss) per share by reconciling the numerators and denominators of the computations:

	Successor	Predecessor	Successor	Predecessor
	Three Months Ended September 30, 2017	Three Months Ended September 30, 2016	Nine Months Ended September 30, 2017	Nine Months Ended September 30, 2016
(In Thousands)				
Weighted average shares outstanding:				
Basic weighted average shares outstanding	23,580	21,293	24,416	21,293
Effect of dilutive securities	555	—	459	—
Diluted weighted average shares outstanding	<u>24,135</u>	<u>21,293</u>	<u>24,875</u>	<u>21,293</u>

16. Workers Compensation Expense

The Company is liable under the Federal Mine Safety and Health Act of 1969, as subsequently amended, to provide for pneumoconiosis (occupational disease) benefits to eligible employees, former employees and dependents. The Company currently provides for federal claims principally through a self-insurance program. The Company is also liable under various state workers' compensation statutes for occupational disease benefits. The occupational disease benefit obligation represents the present value of the of the actuarially computed present and future liabilities for such benefits over the employees' applicable years of service.

In addition, the Company is liable for workers' compensation benefits for traumatic injuries which are calculated using actuarially-based loss rates, loss development factors and discounted based on a risk free rate. Traumatic workers' compensation claims are insured with varying retentions/deductibles, or through state-sponsored workers' compensation programs.

Workers' compensation expense consists of the following components:

	Successor		Predecessor	
	Three Months Ended September 30, 2017	Three Months Ended September 30, 2016	Nine Months Ended September 30, 2017	Nine Months Ended September 30, 2016
(In thousands)				
Self-insured occupational disease benefits:				
Service cost	\$ 1,558	\$ 1,051	\$ 4,675	\$ 3,466
Interest cost	1,169	1,098	3,506	3,184
Net amortization	—	2,178	—	4,325
Curtailments	\$ (4,660)	\$ —	\$ (4,660)	\$ 4,156
Total occupational disease	\$ (1,933)	\$ 4,327	\$ 3,521	\$ 15,131
Traumatic injury claims and assessments	3,077	2,415	8,487	6,628
Total workers' compensation expense	\$ 1,144	\$ 6,742	\$ 12,008	\$ 21,759

The curtailment reflected in three and nine months ended September 30, 2017 was related to the divestiture during the quarter and therefore was included in the line item, "Gain on sale of Lone Mountain Processing, Inc.," within the Condensed Consolidated Statement of Operations. For additional information on the sale, please see Note 4, "Divestitures," to the Condensed Consolidated Financial Statements.

Additionally, due to the curtailment discussed above, the Company revalued the occupational disease liability which increased the liability by approximately \$10.0 million with the offset to accumulated other comprehensive income. The discount rate used for the revaluation was 3.86%.

17. Employee Benefit Plans

The following table details the components of pension benefit costs (credits):

	Successor		Predecessor	
	Three Months Ended September 30, 2017	Three Months Ended September 30, 2016	Nine Months Ended September 30, 2017	Nine Months Ended September 30, 2016
(In thousands)				
Interest cost	\$ 2,736	\$ 2,803	\$ 8,718	\$ 9,338
Expected return on plan assets	(3,913)	(4,641)	(12,909)	(13,623)
Pension settlement	(229)	—	(716)	454
Amortization of other actuarial losses	—	2,292	—	3,973
Net benefit cost (credit)	\$ (1,406)	\$ 454	\$ (4,907)	\$ 142

During the third quarter of 2017 the Company recorded a pension settlement related to its cash balance pension plan as the qualifying distributions from the plan exceeded the annual service and interest costs of the plan. Additionally, due to the pension settlement, the Company revalued the cash balance pension liability which reduced the liability by approximately \$4.3 million with the offset to accumulated other comprehensive income. The discount rate used for the revaluation was 3.60%.

The following table details the components of other postretirement benefit costs (credits):

	Successor		Predecessor	
	Three Months Ended September 30, 2017	Three Months Ended September 30, 2016	Nine Months Ended September 30, 2017	Nine Months Ended September 30, 2016
(In thousands)				
Service cost	\$ 170	\$ 128	\$ 511	\$ 393
Interest cost	1,058	951	3,175	3,223
Curtailments	(520)	—	(520)	(970)
Amortization of prior service credits	—	(2,509)	—	(7,854)
Amortization of other actuarial losses (gains)	—	283	—	(849)
Net benefit cost (credit)	\$ 708	\$ (1,147)	\$ 3,166	\$ (6,057)

The curtailment reflected in three and nine months ended September 30, 2017 was related to the divestiture during the quarter and therefore was included in the line item, "Gain on sale of Lone Mountain Processing, Inc.," within the Condensed Consolidated Statement of Operations. For additional information on the sale, please see Note 4, "Divestitures," to the Condensed Consolidated Financial Statements.

Additionally, due to the curtailment discussed above, the Company revalued the postretirement health benefit liability which increased the liability by approximately \$3.8 million with the offset to accumulated other comprehensive income. The discount rate used for the revaluation was 3.59%.

18. Commitments and Contingencies

The Company accrues for costs related to contingencies when a loss is probable and the amount is reasonably determinable. Disclosure of contingencies is included in the financial statements when it is at least reasonably possible that a material loss or an additional material loss in excess of amounts already accrued may be incurred.

In addition, the Company is a party to numerous other claims and lawsuits with respect to various matters. As of September 30, 2017 and December 31, 2016, the Company had accrued \$0.2 million and \$2.2 million, respectively, for all legal matters, of which all amounts are classified as current. The ultimate resolution of any such legal matter could result in outcomes which may be materially different from amounts the Company has accrued for such matters.

19. Segment Information

The Company's reportable business segments are based on two distinct lines of business, metallurgical and thermal, and may include a number of mine complexes. The Company manages its coal sales by market, not by individual mining complex. Geology, coal transportation routes to customers, and regulatory environments also have a significant impact on the Company's marketing and operations management. Mining operations are evaluated based on Adjusted EBITDAR, per-ton cash operating costs (defined as including all mining costs except depreciation, depletion, amortization, accretion on asset retirement obligations, and pass-through transportation expenses), and on other non-financial measures, such as safety and environmental performance. Adjusted EBITDAR is not a measure of financial performance in accordance with generally accepted accounting principles, and items excluded from Adjusted EBITDAR are significant in understanding and assessing our financial condition. Therefore, Adjusted EBITDAR should not be considered in isolation, nor as an alternative to net income, income from operations, cash flows from operations or as a measure of our profitability, liquidity or performance under generally accepted accounting principles. The Company uses Adjusted EBITDAR to measure the operating performance of its segments and allocate resources to the segments. Furthermore, analogous measures are used by industry analysts and investors to evaluate the Company's operating performance. Investors should be aware that the Company's presentation of Adjusted EBITDAR may not be comparable to similarly titled measures used by other companies. The Company reports its results of operations primarily through the following reportable segments: Powder River Basin (PRB) segment containing the Company's primary thermal operations in Wyoming; the Metallurgical (MET) segment, containing the Company's metallurgical operations in West Virginia, Kentucky, and Virginia, and the Other Thermal segment containing the Company's supplementary thermal operations in Colorado, Illinois, and West Virginia. Periods presented in this note have been recast for comparability.

On September 14, 2017, the Company closed on its' definitive agreement to sell Lone Mountain Processing LLC, an operating mine complex within the Company's metallurgical coal segment. Through this transaction the Company divested all active operations in the states of Kentucky and Virginia. For further information on the divestiture, please see Note 4 to the Condensed Consolidated Financial Statements, "Divestitures."

Operating segment results for the Successor period, the three and nine months ended September 30, 2017, and the Predecessor period, the three and nine months ended September 30, 2016, are presented below. The Company measures its segments based on "adjusted earnings before interest, taxes, depreciation, depletion, amortization, accretion on asset retirements obligations, and reorganization items, net (Adjusted EBITDAR)." Adjusted EBITDAR does not reflect mine closure or impairment costs, since those are not reflected in the operating income reviewed by management. See Note 6, "Asset Impairment and Mine Closure Costs" to the Condensed Consolidated Financial Statements for discussion of these costs. The Corporate, Other and Eliminations grouping includes these charges, as well as the change in fair value of coal derivatives and coal trading activities, net; corporate overhead; land management activities; other support functions; and the elimination of intercompany transactions.

	PRB	MET	Other Thermal	Corporate, Other and Eliminations	Consolidated
Successor Periods					
(in thousands)					
Three Months Ended September 30, 2017					
Revenues	\$ 275,999	\$ 238,946	\$ 93,859	\$ 4,734	\$ 613,538
Adjusted EBITDAR	48,768	53,346	21,217	(19,061)	104,270
Depreciation, depletion and amortization	9,577	18,479	3,465	393	31,914
Accretion on asset retirement obligation	5,040	511	540	1,489	7,580
Capital expenditures	2,047	4,597	4,013	2,924	13,581
Nine Months Ended September 30, 2017					
Revenues	\$ 780,006	\$ 692,178	\$ 287,404	\$ 4,791	\$ 1,764,379
Adjusted EBITDAR	128,562	184,208	75,369	(68,003)	320,136
Depreciation, depletion and amortization	27,661	55,629	9,950	1,296	94,536
Accretion on asset retirement obligation	15,120	1,568	1,621	4,517	22,826
Capital expenditures	2,997	16,032	6,653	4,821	30,503
Predecessor Periods					
Three Months Ended September 30, 2016					
Revenues	\$ 295,891	\$ 152,986	\$ 96,889	\$ 4,539	\$ 550,305
Adjusted EBITDAR	78,880	9,092	28,704	(27,343)	89,333
Depreciation, depletion and amortization	37,246	18,636	12,513	1,028	69,423
Accretion on asset retirement obligation	5,647	588	663	1,067	7,965
Capital expenditures	113	6,966	1,001	216	8,296
Nine Months Ended September 30, 2016					
Revenues	\$ 726,747	\$ 437,069	\$ 213,052	\$ 21,841	\$ 1,398,709
Adjusted EBITDAR	113,185	11,851	31,448	(69,181)	87,303
Depreciation, depletion and amortization	100,151	55,311	32,310	3,809	191,581
Accretion on asset retirement obligation	16,940	1,765	1,988	3,628	24,321
Capital expenditures	612	17,296	3,895	60,631	82,434

A reconciliation of adjusted EBITDAR to consolidated income (loss) before income taxes follows:

	Successor		Predecessor	
	Three Months Ended September 30, 2017	Three Months Ended September 30, 2016	Nine Months Ended September 30, 2017	Nine Months Ended September 30, 2016
(In thousands)				
Adjusted EBITDAR	\$ 104,270	\$ 89,333	\$ 320,136	\$ 87,303
Depreciation, depletion and amortization	(31,914)	(69,423)	(94,536)	(191,581)
Accretion on asset retirement obligations	(7,580)	(7,965)	(22,826)	(24,321)
Amortization of sales contracts, net	(13,861)	(104)	(42,903)	728
Asset impairment and mine closure costs	—	(46)	—	(129,267)
Gain on sale of Lone Mountain Processing, Inc.	21,574	—	21,574	—
Interest expense, net	(5,252)	(45,582)	(19,311)	(133,235)
Net loss resulting from early retirement of debt and debt restructuring	(486)	—	(2,547)	(2,213)
Reorganization items, net	(43)	(20,904)	(2,892)	(46,050)
Income (loss) before income taxes	\$ 66,708	\$ (54,691)	\$ 156,695	\$ (438,636)

20. Subsequent Events

On October 26, 2017, the board of directors of Arch Coal authorized an incremental \$200 million increase to the share repurchase program bringing the total authorization to \$500 million. The timing of any future share purchases, and the ultimate number of shares to be purchased, will depend on a number of factors, including business and market conditions, our future financial performance, and other capital priorities. The shares will be acquired in the open market or through private transactions in accordance with Securities and Exchange Commission requirements. As of September 30, 2017, we had repurchased 2,918,834 shares at an average share price of \$74.59 per share for an aggregate purchase price of approximately \$218 million since inception of the stock repurchase program. The Company had 21,934,787 common shares outstanding as of October 24, 2017.

The purchases under the share repurchase program may be made in the open market or through privately negotiated transactions from time to time and in accordance with applicable laws, rules and regulations. Repurchases may also be made pursuant to a Rule 10b5-1 plan, which permits shares to be repurchased in accordance with pre-determined criteria when the Company might otherwise be prohibited from doing so under insider trading laws or because of self-imposed trading blackout periods. The share repurchase program may be amended, suspended or discontinued at any time and does not commit the Company to repurchase shares of its common stock. The actual number and value of the shares to be purchased will depend on the performance of the Company's stock price and other market conditions.

Item 2. MANAGEMENT’S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS.

Overview

Our results for the third quarter of 2017 benefited from relative strength in both the thermal and metallurgical markets. Seasonal cooling demand and stable natural gas pricing supported the domestic thermal coal market. The summer cooling season was uneven but effectively normal during the current period. Natural gas pricing remained stable and storage levels trended toward the five year average as export demand for natural gas continued to increase and natural gas production began to increase late in the current period. Powder River Basin coal remained economically competitive for electrical generation in many regions throughout the country during the period, and generator stockpiles of Powder River Basin coal declined to the point of approaching the bottom of the five year range by the end of the period. Additionally, pricing in international thermal markets continued to strengthen, increasing the opportunity for certain of our operations to be able to economically ship coal to these markets in the period.

Metallurgical coal markets remained strong in the third quarter of 2017, as continued economic growth, certain supply constraints, and Chinese supply control positively impacted international coking coal prices. However, during the period pricing differentials between the Atlantic and Pacific seaborne markets expanded with the Atlantic market discount growing. We believe anticipated increases in North American coking coal supply coupled with slow economic growth in Europe, contrasted with some supply constraints in Australia, more robust Chinese economic growth, and supportive Chinese policy has led to the increasing Atlantic market discount.

Filing Under Chapter 11 of the United States Bankruptcy Code

On January 11, 2016 (the “Petition Date”), Arch Coal and substantially all of its wholly owned domestic subsidiaries (the “Filing Subsidiaries” and, together with Arch Coal, the “Debtors”; the Debtors, solely following the effective date of the Plan, the “Reorganized Debtors”) filed voluntary petitions for reorganization (collectively, the “Bankruptcy Petitions”) under Chapter 11 of Title 11 of the U.S. Code (the “Bankruptcy Code”) in the United States Bankruptcy Court for the Eastern District of Missouri (the “Court”). The Debtors’ Chapter 11 Cases (collectively, the “Chapter 11 Cases”) were jointly administered under the caption *In re Arch Coal, Inc., et al.* Case No. 16-40120 (lead case). During the Chapter 11 Cases, each Debtor operated its business as a “debtor in possession” under the jurisdiction of the Court and in accordance with the applicable provisions of the Bankruptcy Code and the orders of the Court.

Upon emergence from bankruptcy on October 5, 2016, Arch Coal applied the provisions of fresh start accounting effective October 1, 2016 which resulted in Arch becoming a new entity for financial reporting purposes. Accordingly, the consolidated financial statements and accompanying footnotes on or after October 1, 2016 are not comparable to the consolidated financial statements prior to that date. References to “Successor” in the consolidated financial statements and footnotes are in reference to reporting dates on or after October 2, 2016; references to “Predecessor” in the consolidated financial statements and footnotes are in reference to reporting dates through October 1, 2016 which includes the impact of the Plan provisions and the application of fresh start accounting.

Results of Operations - Successor**Three and Nine Months Ended September 30, 2017**

Revenues. Our revenues include sales to customers of coal produced at our operations and coal purchased from third parties. Transportation costs are included in cost of coal sales and amounts billed by us to our customers for transportation are included in revenues.

Coal Sales. The following table summarizes information about our coal sales during the three and nine months ended September 30, 2017:

	Successor	
	Three Months Ended September 30,	Nine Months Ended September 30,
	2017	2017
	(In thousands)	
Coal sales	\$ 613,538	\$ 1,764,379
Tons sold	26,307	74,506

On a consolidated basis, coal sales in the third quarter of 2017 by segment were approximately 45% Powder River Basin, 39% Metallurgical, and 15% Other, and coal sales in the first nine months of 2017 by segment were approximately 44% Powder River Basin, 39% Metallurgical, and 16% Other. Tons sold for the third quarter of 2017 by segment were approximately 83% Powder River Basin, 8% Metallurgical, and 9% Other, and tons sold for the first nine months of 2017 by segment were approximately 82% Powder River Basin, 9% Metallurgical, and 9% Other. See discussion in “Operational Performance” for further information about regional results.

Costs, expenses and other. The following table summarizes costs, expenses and other components of operating income during the three and nine months ended September 30, 2017:

	Successor	
	Three Months Ended September 30,	Nine Months Ended September 30,
	2017	2017
	(In thousands)	
Cost of sales (exclusive of items shown separately below)	\$ 495,424	\$ 1,391,872
Depreciation, depletion and amortization	31,914	94,536
Accretion on asset retirement obligations	7,580	22,826
Amortization of sales contracts, net	13,861	42,903
Change in fair value of coal derivatives and coal trading activities, net	1,028	2,745
Selling, general and administrative expenses	21,052	63,721
Gain on sale of Lone Mountain Processing, Inc.	(21,574)	(21,574)
Other operating income, net	(8,236)	(14,095)
Total costs, expenses and other	\$ 541,049	\$ 1,582,934

Cost of sales. Our cost of sales for the third quarter of 2017, consisted primarily of labor related costs (approximately 28%), repairs and supplies (approximately 34%), operating taxes and royalties (approximately 20%), and transportation costs (approximately 13%), and for the first nine months of 2017, consisted primarily of labor related costs (approximately 27%), repairs and supplies (approximately 36%), operating taxes and royalties (approximately 21%), and transportation costs (approximately 13%). See discussion in “Operational Performance” for further information about regional results.

Depreciation, depletion and amortization. Our depreciation, depletion, and amortization costs for the third quarter of 2017 consist of depreciation of plant and equipment (approximately 58%), depletion of reserves (approximately 22%), and amortization of development costs (approximately 20%), and for the first nine months of 2017 consist of depreciation of plant and equipment (approximately 61%), depletion of reserves (approximately 19%), and amortization of development costs (approximately 20%). This reflects the application of fresh start accounting. For further information on fresh start accounting, please see Note 1 to the Condensed Consolidated Financial Statements, “Basis of Presentation.”

Accretion on asset retirement obligation. Approximately 66% of the accretion on our asset retirement obligation in both the third quarter and the first nine months of 2017 is attributable to our large surface operations in the Powder River Basin.

Amortization of sales contracts, net. Our amortization of sales contracts, net is primarily related to the application of fresh start accounting to Powder River Basin supply contracts that had fixed prices that were above market upon our emergence from reorganization. For further information on fresh start accounting, please see Note 1 to the Condensed Consolidated Financial Statements, “Basis of Presentation.”

Selling, general and administrative expenses. Total selling, general and administrative expenses consisted primarily of compensation costs of \$13.5 million in the third quarter and \$40.1 million in the first nine months of 2017, and professional services and usage and maintenance agreements of \$4.9 million in the third quarter and \$15.1 million in the first nine months of 2017.

Gain on sale of Lone Mountain Processing, Inc. During the current period we sold Lone Mountain Processing Inc. and Cumberland River Coal LLC to Revelation Energy LLC, generating a gain of approximately \$21.6 million. For further information on the sale of Lone Mountain Processing Inc. and Cumberland River Coal LLC to Revelation Energy LLC, please see Note 4 to the Condensed Consolidated Financial Statements, “Divestitures.”

Other operating income, net. Other operating income, net consists primarily of miscellaneous revenues including outlease royalty income, transloading fees, and net gains on asset sales, excluding the Lone Mountain and Cumberland River transaction discussed above, of \$6.5 million in the third quarter and \$17.9 million in the first nine months of 2017, and income from equity investments of \$3.5 million in the third quarter and \$6.9 million in the first nine months of 2017, and a benefit of \$0.8 million from mark-to-market charges on heating oil derivatives in the third quarter. These were partially offset by mark to market charges on heating oil derivatives of \$3.9 million in the first nine months of 2017, and miscellaneous expenses primarily related to our land company of \$2.2 million in the third quarter and \$6.5 million in the first nine months of 2017.

Nonoperating Expense. The following table summarizes our nonoperating expense during the three and nine months ended September 30, 2017:

	Successor	
	Three Months Ended September 30,	Nine Months Ended September 30,
	2017	2017
	(In thousands)	
Net loss resulting from early retirement of debt and debt restructuring	\$ (486)	\$ (2,547)
Reorganization items, net	(43)	(2,892)
Total nonoperating expense	\$ (529)	\$ (5,439)

Nonoperating expenses in the first nine months of 2017 are related to efforts to replace our securitization facility and expenses associated with our Chapter 11 reorganization. See further discussion in Note 5, “Reorganization Items, Net”, and Note 12, “Debt and Financing Arrangements”, to the Condensed Consolidated Financial Statements.

Benefit from income taxes. The following table summarizes our provision from income taxes during the three and nine months ended September 30, 2017:

	Successor	
	Three Months Ended September 30,	Nine Months Ended September 30,
	2017	2017
	(In thousands)	
Benefit from income taxes	\$ (1,643)	\$ (484)

See further discussion in Note 13, “Income Taxes”, to the Condensed Consolidated Financial Statements.

Operational Performance - Successor**Three and Nine Months Ended September 30, 2017**

Our mining operations are evaluated based on Adjusted EBITDAR, per-ton cash operating costs (defined as including all mining costs except depreciation, depletion, amortization, accretion on asset retirements obligations, and pass-through transportation expenses), and on other non-financial measures, such as safety and environmental performance. Adjusted EBITDAR is defined as net income attributable to the Company before the effect of net interest expense, income taxes, depreciation, depletion and amortization, the amortization of sales contracts, the accretion on asset retirement obligations, and reorganization items, net. Adjusted EBITDAR may also be adjusted for items that may not reflect the trend of future results by excluding transactions that are not indicative of our core operating performance. Adjusted EBITDAR is not a measure of financial performance in accordance with generally accepted accounting principles, and items excluded from Adjusted EBITDAR are significant in understanding and assessing our financial condition. Therefore, Adjusted EBITDAR should not be considered in isolation, nor as an alternative to net income, income from operations, cash flows from operations or as a measure of our profitability, liquidity or performance under generally accepted accounting principles. Furthermore, analogous measures are used by industry analysts and investors to evaluate the Company's operating performance. Investors should be aware that our presentation of Adjusted EBITDAR may not be comparable to similarly titled measures used by other companies.

The following table shows results by operating segment for the three and nine months ended September 30, 2017.

	Successor	
	Three Months Ended September 30,	Nine Months Ended September 30,
	2017	2017
Powder River Basin		
Tons sold (in thousands)	21,713	61,131
Coal sales per ton sold	\$ 12.51	\$ 12.54
Cash cost per ton sold	\$ 10.27	\$ 10.45
Cash operating margin per ton sold	\$ 2.24	\$ 2.09
Adjusted EBITDAR (in thousands)	\$ 48,768	\$ 128,562
Metallurgical		
Tons sold (in thousands)	2,221	6,385
Coal sales per ton sold	\$ 88.60	\$ 89.98
Cash cost per ton sold	\$ 64.46	\$ 61.11
Cash operating margin per ton sold	\$ 24.14	\$ 28.87
Adjusted EBITDAR (in thousands)	\$ 53,346	\$ 184,208
Other Thermal		
Tons sold (in thousands)	2,326	6,943
Coal sales per ton sold	\$ 35.08	\$ 34.67
Cash cost per ton sold	\$ 26.05	\$ 23.98
Cash operating margin per ton sold	\$ 9.03	\$ 10.69
Adjusted EBITDAR (in thousands)	\$ 21,217	\$ 75,369

This table reflects numbers reported under a basis that differs from U.S. GAAP. See the "Reconciliation of Non-GAAP measures" below for explanation and reconciliation of these amounts to the nearest GAAP figures. Other companies may calculate these per ton amounts differently, and our calculation may not be comparable to other similarly titled measures.

Powder River Basin — Adjusted EBITDAR for the three and nine months ended September 30, 2017, benefited from stable natural gas pricing that maintained the competitiveness of Powder River Basin coal for electric generation versus the competing fuel. Natural gas prices remained relatively stable throughout the three and nine months ended September 30, 2017. During this period natural gas exports, both pipeline and liquefied natural gas, continued to increase, while natural gas production levels that were stagnant to slightly declining in the first half of 2017, began to increase late in the current quarter.

Metallurgical—Adjusted EBITDAR for the three and nine months ended September 30, 2017, benefited from continued strength in pricing for metallurgical coal. However, during the current quarter the pricing discount in the Atlantic seaborne market versus the Pacific seaborne market expanded. We believe anticipated increases in North American coking coal supply coupled with slow economic growth in Europe, contrasted with some supply constraints in Australia, more robust Chinese economic growth, and supportive Chinese policy led to the increasing Atlantic market discount. During the months of July and August 2017 our metallurgical operations experienced less than adequate rail service. Additionally, during the three months ended September 30, 2017 we endured adverse geologic conditions at both our Leer and Mountain Laurel longwall operations. These adverse conditions negatively impacted production volume and cash cost per ton sold in the current period.

On March 28th 2017, Cyclone Debbie made landfall and significantly damaged the railroad infrastructure in Queensland, Australia. As the extent of the damage became evident, published pricing for prompt delivery of coking coal rapidly rose to historic levels. However, pricing quickly returned to pre-cyclone levels, and customers largely avoided contracting business at the briefly elevated pricing seen in the immediate aftermath of Cyclone Debbie. Throughout the three and nine months ended September 30, 2017, pricing has remained at levels that provide significant margins to our low cost metallurgical operations. Our metallurgical segment sold 1.8 million tons of coking coal, 0.2 million tons of PCI Coal, and 0.3 million tons of associated thermal coal in the third quarter of 2017 and 4.8 million tons of coking coal, 0.5 million tons of PCI Coal, and 1.0 million tons of associated thermal coal in the first nine months of 2017. Longwall operations accounted for approximately 60% of our shipment volume in the third quarter and 57% of our shipment volume in the first nine months of 2017.

Other Thermal— Adjusted EBITDAR for the three and nine months ended September 30, 2017, benefited from the favorable natural gas pricing discussed in the Powder River Basin segment above, and international thermal prices that supported certain export sales. These benefits were primarily recognized at our low cost West Elk longwall operation where domestic and export opportunities were economic.

Results of Operations - Predecessor**Three and Nine Months Ended September 30, 2016**

Revenues. Our revenues include sales to customers of coal produced at our operations and coal purchased from third parties. Transportation costs are included in cost of coal sales and amounts billed by us to our customers for transportation are included in revenues.

Coal Sales. The following table summarizes information about our coal sales during the three and nine months ended September 30, 2016:

	Predecessor	
	Three Months Ended September 30,	Nine Months Ended September 30,
	2016	2016
	(In thousands)	
Coal sales	\$ 550,305	\$ 1,398,709
Tons sold	27,525	67,128

On a consolidated basis, coal sales in the third quarter of 2016 by segment were approximately 54% Powder River Basin, 28% Metallurgical, and 18% Other, and coal sales in the first nine months of 2016 by segment were approximately 52% Powder River Basin, 31% Metallurgical, and 15% Other. Tons sold for the third quarter of 2016 by segment were approximately 83% Powder River Basin, 8% Metallurgical, and 9% Other, and tons sold for the first nine months of 2016 by segment were approximately 82% Powder River Basin, 10% Metallurgical, and 8% Other. See discussion in "Operational Performance" for further information about regional results.

Costs, expenses and other. The following table summarizes costs, expenses and other components of operating income during the three and nine months ended September 30, 2016:

	Predecessor	
	Three Months Ended September 30,	Nine Months Ended September 30,
	2016	2016
	(In thousands)	
Cost of sales (exclusive of items shown separately below)	\$ 442,462	\$ 1,264,464
Depreciation, depletion and amortization	69,423	191,581
Accretion on asset retirement obligations	7,965	24,321
Amortization of sales contracts, net	104	(728)
Change in fair value of coal derivatives and coal trading activities, net	488	2,856
Asset impairment and mine closure costs	46	129,267
Selling, general and administrative expenses	20,498	59,343
Other operating income, net	(2,476)	(15,257)
Total costs, expenses and other	\$ 538,510	\$ 1,655,847

Cost of sales. Our cost of sales for the third quarter of 2016, consisted primarily of labor related costs (approximately 26%), repairs and supplies (approximately 33%), operating taxes and royalties (approximately 24%), and transportation costs (approximately 11%), and for the first nine months of 2016, consisted primarily of labor related costs (approximately 28%), repairs and supplies (approximately 34%), operating taxes and royalties (approximately 21%), and transportation costs (approximately 13%). See discussion in "Operational Performance" for further information about regional results.

Depreciation, depletion and amortization. Our depreciation, depletion, and amortization costs for the third quarter of 2016 consist of depreciation of plant and equipment (approximately 50%), depletion of reserves (approximately 36%), and amortization of development costs (approximately 14%), and for the first nine months of 2016 consist of depreciation of plant and equipment (approximately 54%), depletion of reserves (approximately 35%), and amortization of development costs (approximately 11%).

Accretion on asset retirement obligation. In the third quarter and first nine months of 2016 respectively, approximately 71% and 70% of the accretion on our asset retirement obligation is attributable to our large surface operations in the Powder River Basin.

Asset impairment and mine closure costs. During the second quarter of 2016 we sold our 38% equity interest in Millennium Bulk Terminal in a non-cash transaction. As a result of this sale we determined our remaining investment in Millennium Bulk Terminal was impaired. Earlier in the first nine months of 2016 we received notification of intent to idle operations by a third party to whom we leased certain Appalachian reserves. As a result of the idling and weakness in the thermal coal market we determined the value of these reserves was impaired. See further discussion in Note 6 to the Condensed Consolidated Financial Statements, "Asset Impairment and Mine Closure".

Selling, general and administrative expenses. Total selling, general and administrative expenses consisted primarily of compensation costs of \$13.8 million in the third quarter and \$38.5 million in the first nine months of 2016, and professional services and usage and maintenance agreements of \$3.8 million in the third quarter and \$12.0 million in the first nine months of 2016.

Other operating income, net. Other operating income, net consists primarily of miscellaneous revenues including outlease royalty income and net gains on asset sales of \$3.8 million in the third quarter and \$18.1 million in the first nine months of 2016, income from equity investments of \$2.3 million in the third quarter and \$5.3 million in the first nine months of 2016, and benefit from mark to market charges on heating oil derivatives of \$0.8 million in the first nine months of 2016. These were partially offset by mark-to-market charges on heating oil derivatives of \$0.8 million in the third quarter, miscellaneous expenses primarily related to our land company of \$2.4 million in the third quarter and \$6.4 million in the first nine months of 2016, and by liquidated damages on logistics contracts of \$1.6 million in the first nine months of 2016.

Nonoperating Expense. The following table summarizes our nonoperating expense during the three and nine months ended September 30, 2016:

	Predecessor	
	Three Months Ended September 30,	Nine Months Ended September 30,
	2016	2016
	(In thousands)	
Net loss resulting from early retirement of debt and debt restructuring	\$ —	\$ (2,213)
Reorganization items, net	(20,904)	(46,050)
Total nonoperating expense	\$ (20,904)	\$ (48,263)

Nonoperating expenses in the third quarter and first nine months of 2016 are related to our proposed debt restructuring activities and costs associated with our Chapter 11 reorganization. See further discussion in Note 5 to the Condensed Consolidated Financial Statements, "Reorganization Items, Net".

Benefit from income taxes. The following table summarizes our provision from income taxes during the three and nine months ended September 30, 2016:

	Predecessor	
	Three Months Ended September 30,	Nine Months Ended September 30,
	2016	2016
	(In thousands)	
Benefit from income taxes	\$ (3,270)	\$ (4,626)

See further discussion in Note 13, "Income Taxes", to the condensed consolidated financial statements.

Operational Performance - Predecessor**Three and Nine Months Ended September 30, 2016**

Our mining operations are evaluated based on Adjusted EBITDAR, per-ton cash operating costs (defined as including all mining costs except depreciation, depletion, amortization, accretion on asset retirements obligations, and pass-through transportation expenses), and on other non-financial measures, such as safety and environmental performance. Adjusted EBITDAR is defined as net income attributable to the Company before the effect of net interest expense, income taxes, depreciation, depletion and amortization, the amortization of sales contracts, the accretion on asset retirement obligations, and reorganization items, net. Adjusted EBITDAR may also be adjusted for items that may not reflect the trend of future results by excluding transactions that are not indicative of our core operating performance. Adjusted EBITDAR is not a measure of financial performance in accordance with generally accepted accounting principles, and items excluded from Adjusted EBITDAR are significant in understanding and assessing our financial condition. Therefore, Adjusted EBITDAR should not be considered in isolation, nor as an alternative to net income, income from operations, cash flows from operations or as a measure of our profitability, liquidity or performance under generally accepted accounting principles. Furthermore, analogous measures are used by industry analysts and investors to evaluate the Company's operating performance. Investors should be aware that our presentation of Adjusted EBITDAR may not be comparable to similarly titled measures used by other companies.

The following table shows results by operating segment for the three and nine months ended September 30, 2016.

	Predecessor	
	Three Months Ended September 30,	Nine Months Ended September 30,
	2016	2016
Powder River Basin		
Tons sold (in thousands)	22,767	54,911
Coal sales per ton sold	\$ 12.79	\$ 13.01
Cash cost per ton sold	\$ 9.34	\$ 10.95
Cash operating margin per ton sold	\$ 3.45	\$ 2.06
Adjusted EBITDAR (in thousands)	\$ 78,880	\$ 113,185
Metallurgical		
Tons sold (in thousands)	2,220	6,692
Coal sales per ton sold	\$ 55.37	\$ 53.15
Cash cost per ton sold	\$ 51.29	\$ 51.40
Cash operating margin per ton sold	\$ 4.08	\$ 1.75
Adjusted EBITDAR (in thousands)	\$ 9,092	\$ 11,851
Other Thermal		
Tons sold (in thousands)	2,468	5,181
Coal sales per ton sold	\$ 34.52	\$ 36.16
Cash cost per ton sold	\$ 23.10	\$ 30.28
Cash operating margin per ton sold	\$ 11.42	\$ 5.88
Adjusted EBITDAR (in thousands)	\$ 28,704	\$ 31,448

This table reflects numbers reported under a basis that differs from U.S. GAAP. See the "Reconciliation of Non-GAAP measures" below for explanation and reconciliation of these amounts to the nearest GAAP figures. Other companies may calculate these per ton amounts differently, and our calculation may not be comparable to other similarly titled measures.

Powder River Basin — Adjusted EBITDAR for the three months ended September 30, 2016 benefited from a favorably warm summer cooling season and increasing natural gas pricing that made Powder River Basin coal competitive with the competing fuel for electric generation for most of our customers. The increasing volume of tons sold in the three months ended September 30, 2016 significantly reduced cost of sales per ton sold. This contrasted with the first half of 2016, which was negatively impacted by historically low natural gas pricing that made Powder River Basin coal economically uncompetitive for electric generation versus the competing fuel for many of our customers. During the first half of 2016 unfavorably warm 2015-2016 winter season temperatures and increased natural gas production levels from shale resources kept the price of the competing fuel at unsustainably low levels.

Metallurgical—Adjusted EBITDAR for the three and nine months ended September 30, 2016, was negatively impacted by multi-year lows in pricing for metallurgical coal. Persistent oversupply from significant investments early in the decade, particularly in Australia, long term anemic economic growth in OECD nations, and slowing economic growth in China led to a multi-year cyclical downturn in metallurgical coal pricing. Our metallurgical segment sold 1.6 million tons of coking coal, 0.1 million tons of PCI Coal, and 0.4 million tons of associated thermal coal in the third quarter of 2016 and 4.8 million tons of coking coal, 0.4 million tons of PCI Coal, and 1.6 million tons of associated thermal coal in the first nine months of 2016. Longwall operations accounted for approximately 66% of our shipment volume in the third quarter and 65% of our shipment volume in the first nine months of 2016.

Other Thermal— Adjusted EBITDAR for the three months ended September 30, 2016 benefited from increasing natural gas pricing discussed in the Powder River Basin segment above, and increasing international thermal coal prices began to reach levels that supported thermal export sales from our West Elk operation late in this quarter. This contrasted with the first half of 2016, which was negatively impacted by the low natural gas pricing discussed in the Powder River Basin segment above. Furthermore, international thermal prices did not support thermal export sales at any of our operations during the first half of 2016.

Reconciliation of Non-GAAP measures
Segment coal sales per ton sold

Segment coal sales per ton sold are calculated as the segment's coal sales revenues divided by segment tons sold. The segments' sales per tons sold are adjusted for transportation costs, and may be adjusted for other items that, due to accounting rules, are classified in "other operating (income) expense, net" on the statement of operations, but relate to price protection on the sale of coal. Segment sales per ton sold is not a measure of financial performance in accordance with generally accepted accounting principles. We believe segment sales per ton sold better reflects our revenue for the quality of coal sold and our operating results by including all income from coal sales. The adjustments made to arrive at these measures are significant in understanding and assessing our financial condition. Therefore, segment coal sales revenues should not be considered in isolation, nor as an alternative to coal sales revenues under generally accepted accounting principles.

	Successor		Predecessor	
	Three Months Ended September 30, 2017	Three Months Ended September 30, 2016	Nine Months Ended September 30, 2017	Nine Months Ended September 30, 2016
(In thousands)				
Reported segment coal sales revenues	\$ 550,086	\$ 499,339	\$ 1,582,051	\$ 1,257,219
Coal risk management derivative settlements classified in "other (income) expense, net"	19	117	19	448
Coal sales revenues from idled or otherwise disposed operations not included in segments	3,719	4,513	3,769	19,368
Transportation costs	59,714	46,336	178,540	121,674
Revenues in the condensed consolidated statements of operations	<u>\$ 613,538</u>	<u>\$ 550,305</u>	<u>\$ 1,764,379</u>	<u>\$ 1,398,709</u>

Segment cost per ton sold

Segment costs per ton sold are calculated as the segment's cost of tons sold divided by segment tons sold. The segments' cost of tons sold are adjusted for transportation costs, and may be adjusted for other items that, due to accounting rules, are classified in "other (income) expense, net" on the statement of operations, but relate directly to the costs incurred to produce coal. Segment cost of tons sold is not a measure of financial performance in accordance with generally accepted accounting principles. We believe segment cost of tons sold better reflects our controllable costs and our operating results by including all costs incurred to produce coal. The adjustments made to arrive at these measures are significant in understanding and assessing our financial condition. Therefore, segment cost of tons sold should not be considered in isolation, nor as an alternative to cost of sales under generally accepted accounting principles.

	Successor		Predecessor	
	Three Months Ended September 30, 2017	Three Months Ended September 30, 2016	Nine Months Ended September 30, 2017	Nine Months Ended September 30, 2016
(In thousands)				
Reported segment cash cost of tons sold	\$ 426,822	\$ 383,511	\$ 1,195,770	\$ 1,102,386
Diesel fuel risk management derivative settlements classified in "other (income) expense, net"	(921)	(1,154)	(2,416)	(3,696)
Transportation costs	59,714	46,336	178,540	121,674
Cash cost of coal sold from idled or otherwise disposed operations not included in segments	7,979	13,018	16,660	42,513
Other (operating overhead, certain actuarials, etc.)	1,830	751	3,318	1,587
Cost of sales in the condensed consolidated statements of operations	<u>\$ 495,424</u>	<u>\$ 442,462</u>	<u>\$ 1,391,872</u>	<u>\$ 1,264,464</u>

Reconciliation of Segment Adjusted EBITDAR to Net Income

The discussion in “Results of Operations” above includes references to our Adjusted EBITDAR for each of our reportable segments. Adjusted EBITDAR is defined as net income attributable to the Company before the effect of net interest expense, income taxes, depreciation, depletion and amortization, the amortization of sales contracts, the accretion on asset retirement obligations, and reorganization items, net. Adjusted EBITDAR may also be adjusted for items that may not reflect the trend of future results by excluding transactions that are not indicative of our core operating performance. We use Adjusted EBITDAR to measure the operating performance of our segments and allocate resources to our segments. Adjusted EBITDAR is not a measure of financial performance in accordance with generally accepted accounting principles, and items excluded from Adjusted EBITDAR are significant in understanding and assessing our financial condition. Therefore, Adjusted EBITDAR should not be considered in isolation, nor as an alternative to net income, income from operations, cash flows from operations or as a measure of our profitability, liquidity or performance under generally accepted accounting principles. Investors should be aware that our presentation of Adjusted EBITDAR may not be comparable to similarly titled measures used by other companies. The table below shows how we calculate Adjusted EBITDAR.

	Successor		Predecessor	
	Three Months Ended September 30,	Three Months Ended September 30,	Nine Months Ended September 30,	Nine Months Ended September 30,
	2017	2016	2017	2016
(In thousands)				
Reported Segment Adjusted EBITDAR	\$ 123,331	\$ 116,676	\$ 388,139	\$ 156,484
EBITDA from idled or otherwise disposed operations	(3,824)	(7,674)	(10,758)	(14,514)
Selling, general, and administrative expenses	(21,052)	(20,498)	(63,721)	(59,343)
Other	5,815	829	6,476	4,676
Adjusted EBITDAR	104,270	89,333	320,136	87,303
Benefit from income taxes	1,643	3,270	484	4,626
Interest expense, net	(5,252)	(45,582)	(19,311)	(133,235)
Depreciation, depletion and amortization	(31,914)	(69,423)	(94,536)	(191,581)
Accretion on asset retirement obligations	(7,580)	(7,965)	(22,826)	(24,321)
Amortization of sales contracts, net	(13,861)	(104)	(42,903)	728
Asset impairment and mine closure costs	—	(46)	—	(129,267)
Gain on sale of Lone Mountain Processing, Inc.	21,574	—	21,574	—
Net loss resulting from early retirement of debt and debt restructuring	(486)	—	(2,547)	(2,213)
Reorganization items, net	(43)	(20,904)	(2,892)	(46,050)
Net income (loss)	\$ 68,351	\$ (51,421)	\$ 157,179	\$ (434,010)

Other includes primarily income from our equity investments, certain actuarial adjustments, and certain changes in the fair value of coal derivatives and coal trading activities.

Liquidity and Capital Resources

Our primary sources of liquidity are proceeds from coal sales to customers and certain financing arrangements. Excluding significant investing activity, we intend to satisfy our working capital requirements and fund capital expenditures and debt-service obligations with cash generated from operations and cash on hand. Our focus is prudently managing costs, including capital expenditures, maintaining a strong balance sheet, and insuring adequate liquidity.

On April 27, 2017, our Board of Directors authorized a share repurchase program for up to \$300 million of our common stock, and a quarterly common stock cash dividend of \$0.35 per share. During the third quarter of 2017, we repurchased 2,208,133 shares of our stock for approximately \$167 million including 750,000 shares purchased directly from Monarch Alternative Capital LP for approximately \$56 million. Total shares repurchased during first nine months of 2017 were 2,918,834 for approximately \$216 million. Also during the third quarter of 2017, we paid a quarterly cash dividend of \$0.35 per share, totaling approximately \$8.2 million.

On October 26, 2017 our Board of Directors authorized an additional \$200 million for our share repurchase program, bringing the total authorization to \$500 million. The timing of any future share purchases, and the ultimate number of shares to be purchased, will depend on a number of factors, including business and market conditions, our future financial performance, and other capital priorities. The shares will be acquired in the open market or through private transactions in accordance with Securities and Exchange Commission requirements.

Given the volatile nature of coal markets, we believe it is important to take a prudent approach to managing our balance sheet and liquidity. Our dividend policy and share repurchase program will be implemented in a manner that will result in maintaining cash levels similar to those we have seen over the past three quarters. In the future, we will continue to evaluate our capital allocation initiatives in light of the current state of and our outlook for coal markets; the amount of our planned production that has been committed and priced; the capital needs of the business; and other strategic opportunities.

On March 7, 2017, we entered into a senior secured term loan credit agreement in an aggregate principal amount of \$300 million (the “New Term Loan Debt Facility”) with Credit Suisse AG, Cayman Islands Branch, as administrative agent and collateral agent (in such capacities, the “Agent”), and the other financial institutions from time to time party thereto (collectively, the “Lenders”). The New Term Loan Debt Facility was issued at 99.50% of the face amount and will mature on March 7, 2024. Proceeds from The New Term Loan Debt Facility were used to repay all outstanding obligations under our previously existing term loan credit agreement, dated as of October 5, 2016.

Borrowings under the New Term Loan Debt Facility bear interest at a per annum rate equal to, at our option, either (i) a London interbank offered rate plus an applicable margin of 4%, subject to a 1% LIBOR floor (the “LIBOR Rate”), or (ii) a base rate plus an applicable margin of 3%. Interest payments will be payable in cash. The term loans provided under the New Term Loan Debt Facility (the “Term Loans”) are subject to quarterly principal amortization payments in an amount equal to \$750,000. For further information regarding the Previous First Lien Debt Facility and the New Term Loan Debt Facility see Note 12 to the Condensed Consolidated Financial Statements “Debt and Financing Arrangements”.

On September 25, 2017, the Company entered into the First Amendment (the “Amendment”) to its Credit Agreement, dated as of March 7, 2017, among Arch Coal as borrower, the lenders from time to time party thereto, and Credit Suisse AG, Cayman Islands Branch, as administrative agent and collateral agent. The Amendment reduces the interest rate on the \$300 million term loan facility to, at the option of Arch Coal, either (i) the London interbank offered rate (“LIBOR”) plus an applicable margin of 3.25%, subject to a 1.00% LIBOR floor, or (ii) a base rate plus an applicable margin of 2.25%. For further information regarding the first amendment to the term loan facility see Note 12 to the Condensed Consolidated Financial Statements “Debt and Financing Arrangements”.

During the second quarter of 2017, we entered into a series of interest rate swaps to fix a portion of the LIBOR interest rate within the term loan. The interest rate swaps qualify for cash flow hedge accounting treatment and as such, the change in the fair value of the interest rate swaps are recorded on our Condensed Consolidated Balance Sheet as an asset or liability with the effective portion of the gains or losses reported as a component of accumulated other comprehensive income and the ineffective portion reported in earnings. As interest payments are made on the term loan, amounts in accumulated other comprehensive income will be reclassified into earnings through interest expense to reflect a net interest on the term loan equal to the effective yield of the fixed rate of the swap plus 3.25% which is the spread on the LIBOR term loan as amended. In the event that an interest rate swap is terminated prior to maturity, gains or losses in accumulated other comprehensive income will remain deferred and reclassified into earnings in the periods which the hedged forecasted transaction affects earnings. For further information regarding the interest rate swaps see Note 12 to the Condensed Consolidated Financial Statements “Debt and Financing Arrangements”.

On April 27, 2017, we entered into a senior secured inventory-based revolving credit facility in an aggregate principal amount of \$40 million (the “New Inventory Facility”) with Regions Bank (“Regions”) as administrative agent and collateral agent (in such capacities, the “Agent”), as lender and swingline lender (in such capacities, the “Lender”) and as letter of credit issuer. Availability under the New Inventory Facility is subject to a borrowing base consisting of (i) 85% of the net orderly liquidation value of eligible coal inventory, (ii) the lesser of (x) 85% of the net orderly liquidation value of eligible parts and supplies inventory and (y) 35% of the amount determined pursuant to clause (i), and (iii) 100% of our Eligible Cash (defined in the New Inventory Facility), subject to reduction for reserves imposed by Regions.

The commitments under the New Inventory Facility will terminate on the date that is the earliest to occur of (i) the third anniversary of the Inventory Facility Closing Date, (ii) the date, if any, that is 364 days following the first day that Liquidity (defined in the New Inventory Facility and consistent with the definition in the Extended Securitization Facility (as defined below)) is less than \$250 million for a period of 60 consecutive days and (iii) the date, if any, that is 60 days following

the maturity, termination or repayment in full of the Extended Securitization Facility.

Revolving loan borrowings under the New Inventory Facility bear interest at a per annum rate equal to, at our option, either the base rate or the London interbank offered rate plus, in each case, a margin ranging from 2.25% to 2.50% (in the case of LIBOR loans) and 1.25% to 1.50% (in the case of base rate loans) determined using a Liquidity-based grid. Letters of credit under the New Inventory Facility are subject to a fee in an amount equal to the applicable margin for LIBOR loans, plus customary fronting and issuance fees. For further information regarding the New Inventory Facility see Note 12 to the Condensed Consolidated Financial Statements “Debt and Financing Arrangements”.

On April 27, 2017, we extended and amended our existing trade accounts receivable securitization facility which supports the issuance of letters of credit and requests for cash advances. The amendment to the Extended Securitization Facility decreases the borrowing capacity from \$200 million to \$160 million and extends the maturity date to three years after the Securitization Facility Closing Date. Pursuant to the Extended Securitization Facility, we also agreed to a revised schedule of fees payable to the administrator and the providers of the Extended Securitization Facility. For further information regarding the Extended Securitization Facility see Note 12 to the Condensed Consolidated Financial Statements “Debt and Financing Arrangements”.

On September 30, 2017 we had total liquidity of approximately \$471 million including unrestricted cash and equivalents, short term investments in debt securities, availability under our credit facilities, and funds withdrawable from brokerage accounts.

The following is a summary of cash provided by or used in each of the indicated types of activities during the nine months ended September 30, 2017 and 2016:

	Successor	Predecessor
	Nine Months Ended September 30, 2017	Nine Months Ended September 30, 2016
(In thousands)		
Cash provided by (used in):		
Operating activities	\$ 302,145	\$ (31,234)
Investing activities	(29,603)	15,135
Financing activities	(279,577)	(34,477)

Cash Flow - Successor

Cash provided by operating activities in the nine months ended September 30, 2017 resulted from favorable market conditions for most of our products and solid operating cost performance across all of our segments discussed in the Operational Performance section. In addition, low cash interest expense contributed to the cash provided by operating activities.

Cash used in investing activities in the nine months ended September 30, 2017 resulted from the net purchase of short term investments, and capital expenditures of approximately \$30 million, partially offset by an approximately \$71 million reduction in restricted cash.

Cash used in financing activities in the nine months ended September 30, 2017 resulted primarily from our purchase of approximately \$216 million of treasury stock, payment of our \$0.35 per share quarterly cash dividend, and the repayment of the Previous First Lien Debt Facility with proceeds from the New Term Loan Debt Facility. Additionally, financing costs associated with the New Term Loan Debt Facility added to cash used in financing activities.

Cash Flow - Predecessor

Cash used in operating activities in the nine months ended September 30, 2016 resulted from difficult market conditions, particularly in the first half of 2016, for all of our products as discussed in the Operational Performance section. In addition, significant cash interest expense and cash restructuring costs contributed to cash used in operating activities.

Cash provided by investing activities in the nine months ended September 30, 2016 resulted from the net sale of short term investments and an approximately \$15 million reduction in restricted cash, partially offset by capital expenditures of

approximately \$82 million including approximately \$60 million for the final Lease by Application (LBA) bonus bid payment for a Powder River Basin reserve tract.

Cash used in financing activities in the nine months ended September 30, 2016 resulted from financing costs associated with the previous DIP facility and securitization facility, insurance premium financing payments, and expenses related to pre-filing debt restructuring costs.

Item 3. Quantitative and Qualitative Disclosures About Market Risk.

We manage our commodity price risk for our non-trading, thermal coal sales through the use of long-term coal supply agreements, and to a limited extent, through the use of derivative instruments. Sales commitments in the metallurgical coal market are typically not long term in nature, and we are therefore subject to fluctuations in market pricing.

Our sales commitments for 2017 and 2018 were as follows as of October 31, 2017 :

	2017		2018	
	Tons (in millions)	\$ per ton	Tons (in millions)	\$ per ton
Metallurgical				
Committed, Priced Coking	6.0	\$ 100.20	0.5	\$ 105.00
Committed, Unpriced Coking	0.6		2.4	
Committed, Priced Thermal	0.9	\$ 24.86	0.4	\$ 30.45
Committed, Unpriced Thermal	—		—	
Powder River Basin				
Committed, Priced	81.1	\$ 12.47	47.5	\$ 12.05
Committed, Unpriced	0.9		2.8	
Other Thermal				
Committed, Priced	9.3	\$ 34.74	5.0	\$ 35.26
Committed, Unpriced	—		—	

We are also exposed to commodity price risk in our coal trading activities, which represents the potential future loss that could be caused by an adverse change in the market value of coal. Our coal trading portfolio included swap and put and call option contracts at September 30, 2017. The estimated future realization of the value of the trading portfolio is \$0.5 million of losses during the remainder of 2017 and 1.5 million of losses during the remainder of 2018.

We monitor and manage market price risk for our trading activities with a variety of tools, including Value at Risk (VaR), position limits, management alerts for mark to market monitoring and loss limits, scenario analysis, sensitivity analysis and review of daily changes in market dynamics. Management believes that presenting high, low, end of year and average VaR is the best available method to give investors insight into the level of commodity risk of our trading positions. Illiquid positions, such as long-dated trades that are not quoted by brokers or exchanges, are not included in VaR.

VaR is a statistical one-tail confidence interval and down side risk estimate that relies on recent history to estimate how the value of the portfolio of positions will change if markets behave in the same way as they have in the recent past. The level of confidence is 95%. The time across which these possible value changes are being estimated is through the end of the next business day. A closed-form delta-neutral method used throughout the finance and energy sectors is employed to calculate this VaR. VaR is back tested to verify its usefulness.

On average, portfolio value should not fall more than VaR on 95 out of 100 business days. Conversely, portfolio value declines of more than VaR should be expected, on average, 5 out of 100 business days. When more value than VaR is lost due to market price changes, VaR is not representative of how much value beyond VaR will be lost.

While presenting VaR will provide a similar framework for discussing risk across companies, VaR estimates from two independent sources are rarely calculated in the same way. Without a thorough understanding of how each VaR model was calculated, it would be difficult to compare two different VaR calculations from different sources.

During the nine months ended September 30, 2017, VaR for our coal trading positions that are recorded at fair value through earnings ranged from under \$0.1 million to \$0.5 million. The linear mean of each daily VaR was \$0.2 million. The final VaR at September 30, 2017 was \$0.5 million.

We are exposed to fluctuations in the fair value of coal derivatives that we enter into to manage the price risk related to future coal sales, but for which we do not elect hedge accounting. Gains or losses on these derivative instruments would be largely offset in the pricing of the physical coal sale. During the nine months ended September 30, 2017, VaR for our risk management positions that are recorded at fair value through earnings ranged from \$0.0 million to \$0.8 million. The linear mean of each daily VaR was \$0.2 million. The final VaR at September 30, 2017 was \$0.8 million.

The Company is exposed to price risk with respect to diesel fuel purchased for use in its operations. The Company anticipates purchasing approximately 40 to 42 million gallons of diesel fuel for use in its operations during 2017 and 2018. To protect the Company's cash flows from increases in the price of diesel fuel for its operations, the Company uses forward physical diesel purchase contracts and purchased heating oil call options. At September 30, 2017, the Company had protected the price of approximately 83% of its expected diesel fuel purchases for the remainder of 2017 at an average strike price of \$1.86 per gallon. Additionally, the Company has protected approximately 40% of its expected 2018 purchases with call options with an average strike price of \$1.81 per gallon. At September 30, 2017, the Company had outstanding heating oil call options for approximately 25 million gallons for the purpose of managing the price risk associated with future diesel purchases. These positions are not designated as hedges for accounting purposes, and therefore, changes in the fair value are recorded immediately to earnings.

Item 4. Controls and Procedures.

We performed an evaluation under the supervision and with the participation of our management, including our chief executive officer and chief financial officer, of the effectiveness of the design and operation of our disclosure controls and procedures as of September 30, 2017. Based on that evaluation, our management, including our chief executive officer and chief financial officer, concluded that the disclosure controls and procedures were effective as of such date. There were no changes in our internal control over financial reporting during the fiscal quarter to which this report relates that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

PART II OTHER INFORMATION

Item 1. Legal Proceedings

We are involved in various claims and legal actions arising in the ordinary course of business, including employee injury claims. After conferring with counsel, it is the opinion of management that the ultimate resolution of these claims, to the extent not previously provided for, will not have a material adverse effect on our consolidated financial condition, results of operations or liquidity.

Item 2. Unregistered Sales of Equity Securities and Use of Proceeds

On April 27, 2017, the board of directors of Arch Coal authorized a new share repurchase program for up to \$300 million of its common stock. On October 26, 2017, the board of directors approved an incremental \$200 million increase to the share repurchase program bringing the total authorization to \$500 million. The timing of any future share purchases, and the ultimate number of shares to be purchased, will depend on a number of factors, including business and market conditions, our future financial performance, and other capital priorities. The shares will be acquired in the open market or through private transactions in accordance with Securities and Exchange Commission requirements. The share repurchase program has no termination date, but may be amended, suspended or discontinued at any time and does not commit the Company to repurchase shares of its common stock. The actual number and value of the shares to be purchased will depend on the performance of our stock price and other market conditions.

The table below represents all share repurchases for the three months ended September 30, 2017:

Date	Total Number Shares Purchased⁽¹⁾	Average Price Paid per Share	Total Number of Shares Purchased as Part of Publicly Announced Plans⁽²⁾	Approximate Dollar Value of Shares that May Yet Be Purchased Under the Plan (in thousands)⁽³⁾
July 1 through July 31, 2017	39,800	\$ 75.33	39,800	\$ 445,959
August 1 through August 31, 2017	940,833	\$ 76.15	940,833	\$ 374,318
September 1 through September 30, 2017	1,227,500	\$ 74.99	1,227,500	\$ 282,272
Total	2,208,133	\$ 75.49	2,208,133	

⁽¹⁾ The share repurchases for the quarter include 750,000 shares purchased directly from Monarch Alternative Capital LP for approximately \$56 million on September 14, 2017.

⁽²⁾ The stock repurchase program was announced on May 2, 2017, and the supplemental increase was announced on October 31, 2017.

⁽³⁾ Amounts include the impact of the incremental \$200 million authorization on October 26, 2017.

As of September 30, 2017, we had repurchased 2,918,834 shares at an average share price of \$ 74.59 per share for an aggregate purchase price of approximately \$218 million since inception of the stock repurchase program, and the remaining authorized amount for stock repurchases under this program was \$282 million.

Item 4. Mine Safety Disclosures.

The statement concerning mine safety violations or other regulatory matters required by Section 1503(a) of the Dodd-Frank Wall Street Reform and Consumer Protection Act and Item 104 of Regulation S-K is included in Exhibit 95 to this Quarterly Report on Form 10-Q for the period ended September 30, 2017.

Item 6. Exhibits.

- 2.1 [Debtors' Fourth Amended Joint Plan of Reorganization Under Chapter 11 of the Bankruptcy Code \(incorporated by reference to Exhibit 2.1 of Arch Coal's Current Report on Form 8-K filed on September 15, 2016\).](#)
- 2.2 [Order Confirming Debtors' Fourth Amended Joint Plan of Reorganization Under Chapter 11 of the Bankruptcy Code on September 13, 2016 \(incorporated by reference to Exhibit 2.2 of Arch Coal's Current Report on Form 8-K filed on September 15, 2016\).](#)
- 3.1 [Amended and Restated Certificate of Incorporation of Arch Coal, Inc. 10.19 \(incorporated by reference to Exhibit 3.1 of Arch Coal's registration statement on Form 8-A filed on October 4, 2016\).](#)
- 3.2 [Bylaws of Arch Coal, Inc. \(incorporated by reference to Exhibit 3.2 of Arch Coal's registration statement on Form 8-A filed on October 4, 2016\).](#)
- 4.1 [Form of specimen Class A Common Stock certificate \(incorporated by reference to Exhibit 4.1 of Arch Coal's Current Report on Form 8-K filed on October 11, 2016\).](#)
- 4.2 [Form of specimen Class B Common Stock certificate \(incorporated by reference to Exhibit 4.2 of Arch Coal's Current Report on Form 8-K filed on October 11, 2016\).](#)
- 4.3 [Form of specimen Series A Warrant certificate \(incorporated by reference to Exhibit A of Exhibit 10.5 of Arch Coal's Current Report on Form 8-K filed on October 11, 2016\).](#)
- 10.1 [Credit Agreement, dated as of March 7, 2017, among Arch Coal, Inc. as borrower, the lenders from time to time party thereto and Credit Suisse AG, Cayman Islands Branch, in its capacities as administrative agent and as collateral agent \(incorporated by reference to Exhibit 10.1 of Arch Coal's Current Report on Form 8-K filed on March 8, 2017\).](#)
- 10.2 [First Amendment to Credit Agreement, dated as of September 25, 2017, among Arch Coal, Inc. as borrower, the lenders from time to time party thereto and Credit Suisse AG, Cayman Islands Branch, in its capacities as administrative agent and as collateral agent \(incorporated by reference to Exhibit 10.1 of Arch Coal's Current Report on Form 8-K filed on September 25, 2017\).](#)
- 10.3 [Credit Agreement, dated as of April 27, 2017, among Arch Coal, Inc. and certain of its subsidiaries, as borrowers, the lenders from time to time party thereto Regions Bank, in its capacities as administrative agent and as collateral agent \(incorporated by reference to Exhibit 10.1 of Arch Coal's Current Report on Form 8-K filed on May 2, 2017\).](#)
- 10.4 [Third Amended and Restated Receivables Purchase Agreement among Arch Receivable Company, LLC, as seller, Arch Coal Sales Company, Inc., as initial servicer, PNC Bank, National Association as administrator and issuer of letters of credit thereunder and the other parties party thereto, as securitization purchasers \(incorporated by reference to Exhibit 10.2 of Arch Coal's Current Report on Form 8-K filed on October 11, 2016\).](#)
- 10.5 [First Amendment to Third Amended and Restated Receivables Purchase Agreement, dated as of April 27, 2017, among Arch Receivable Company, LLC, as seller, Arch Coal Sales Company, Inc., as servicer, PNC Bank, National Association as administrator and issuer of letters of credit thereunder and the other parties party thereto, as securitization purchasers \(incorporated by reference to Exhibit 10.2 of Arch Coal's Current Report on Form 8-K filed on May 2, 2017\).](#)
- 10.6 [Second Amended and Restated Purchase and Sale Agreement among Arch Coal, Inc. and certain subsidiaries of Arch Coal, Inc., as originators \(incorporated by reference to Exhibit 10.3 of Arch Coal's Current Report on Form 8-K filed on October 11, 2016\).](#)
- 10.7 [First Amendment to the Second Amended and Restated Purchase and Sale Agreement, dated as of December 21, 2016, among Arch Coal, Inc. and certain subsidiaries of Arch Coal, Inc., as originators.](#)
- 10.8 [Second Amendment to the Second Amended and Restated Purchase and Sale Agreement, dated as of April 27, 2017, among the Arch Coal, Inc. and certain subsidiaries of the Arch Coal, Inc., as originators \(incorporated by reference to Exhibit 10.3 of Arch Coal's Current Report on Form 8-K filed on May 2, 2017\).](#)
- 10.9 [Second Amended and Restated Sale and Contribution Agreement between Arch Coal, Inc., as the transferor, and Arch Receivable Company, LLC \(incorporated by reference to Exhibit 10.4 of Arch Coal's Current Report on Form 8-K filed on October 11, 2016\).](#)
- 10.10 [First Amendment to the Second Amended and Restated Sale and Contribution Agreement, dated as of April 27, 2017, between Arch Coal, Inc., as the transferor, and Arch Receivable Company, LLC \(incorporated by reference to Exhibit 10.4 of Arch Coal's Current Report on Form 8-K filed on May 2, 2017\).](#)
- 10.11 [Warrant Agreement, dated as of October 5, 2016, between Arch Coal, Inc. and American Stock Transfer & Trust Company, LLC, as Warrant Agent \(incorporated by reference to Exhibit 10.5 of Arch Coal's Current Report on Form 8-K filed on October 11, 2016\).](#)
- 10.12 [Indemnification Agreement between Arch Coal and the directors and officers of Arch Coal and its subsidiaries \(form\) \(incorporated by reference to Exhibit 10.6 of Arch Coal's Current Report on Form 8-K filed on October 11, 2016\).](#)

- 10.13 [Registration Rights Agreement between Arch Coal and Monarch Alternative Capital LP and certain other affiliated funds \(incorporated by reference to Exhibit 10.1 of Arch Coal's Current Report on Form 8-K filed on November 21, 2016\)](#)
- 10.14 Coal Lease Agreement dated as of March 31, 1992, among Allegheny Land Company, as lessee, and UAC and Phoenix Coal Corporation, as lessors, and related guarantee (incorporated herein by reference to the Current Report on Form 8-K filed by Ashland Coal, Inc. on April 6, 1992).
- 10.15 Federal Coal Lease dated as of January 24, 1996 between the U.S. Department of the Interior and the Thunder Basin Coal Company (incorporated herein by reference to Exhibit 10.20 to Arch Coal's Annual Report on Form 10-K for the year ended December 31, 1998).
- 10.16 Federal Coal Lease Readjustment dated as of November 1, 1967 between the U.S. Department of the Interior and the Thunder Basin Coal Company (incorporated herein by reference to Exhibit 10.21 to Arch Coal's Annual Report on Form 10-K for the year ended December 31, 1998).
- 10.17 Federal Coal Lease effective as of May 1, 1995 between the U.S. Department of the Interior and Mountain Coal Company (incorporated herein by reference to Exhibit 10.22 to Arch Coal's Annual Report on Form 10-K for the year ended December 31, 1998).
- 10.18 Federal Coal Lease dated as of January 1, 1999 between the Department of the Interior and Ark Land Company (incorporated herein by reference to Exhibit 10.23 to Arch Coal's Annual Report on Form 10-K for the year ended December 31, 1998).
- 10.19 [Federal Coal Lease effective as of March 1, 2005 by and between the United States of America and Ark Land LT, Inc. covering the tract of land known as "Little Thunder" in Campbell County, Wyoming \(incorporated by reference to Exhibit 99.1 to the Current Report on Form 8-K filed by Arch Coal on February 10, 2005\).](#)
- 10.20 [Modified Coal Lease \(WYW71692\) executed January 1, 2003 by and between the United States of America, through the Bureau of Land Management, as lessor, and Triton Coal Company, LLC, as lessee, covering a tract of land known as "North Rochelle" in Campbell County, Wyoming \(incorporated by reference to Exhibit 10.24 to Arch Coal's Annual Report on Form 10-K for the year ended December 31, 2004\).](#)
- 10.21 [Coal Lease \(WYW127221\) executed January 1, 1998 by and between the United States of America, through the Bureau of Land Management, as lessor, and Triton Coal Company, LLC, as lessee, covering a tract of land known as "North Roundup" in Campbell County, Wyoming \(incorporated by reference to Exhibit 10.24 to Arch Coal's Annual Report on Form 10-K for the year ended December 31, 2004\).](#)
- 10.22 [Form of Employment Agreement for Executive Officers of Arch Coal, Inc. \(incorporated herein by reference to Exhibit 10.4 to Arch Coal's Annual Report on Form 10-K for the year ended December 31, 2011\).](#)
- 10.23 [Arch Coal, Inc. Incentive Compensation Plan For Executive Officers \(incorporated herein by reference to Appendix B to the proxy statement on Schedule 14A filed by Arch Coal on March 22, 2010\).](#)
- 10.24 [Arch Coal, Inc. Deferred Compensation Plan \(incorporated herein by reference to Exhibit 10.26 to Arch Coal's Annual Report on Form 10-K for the year ended December 31, 2014\).](#)
- 10.25 [Arch Coal, Inc. Outside Directors' Deferred Compensation Plan \(incorporated herein by reference to Exhibit 10.4 of Arch Coal's Current Report on Form 8-K filed on December 11, 2008\).](#)
- 10.26 [Arch Coal, Inc. Supplemental Retirement Plan \(as amended on December 5, 2008\) \(incorporated herein by reference to Exhibit 10.2 to Arch Coal's Current Report on Form 8-K filed on December 11, 2008\).](#)
- 10.27 [Arch Coal, Inc. 2016 Omnibus Incentive Plan \(incorporated herein by reference to Exhibit 99.1 to Arch Coal's Registration Statement on Form S-8 filed on November 1, 2016\).](#)
- 10.28 [Form of Restricted Stock Unit Contract \(Time-Based Vesting\) \(incorporated herein by reference to Exhibit 10.1 to Arch Coal's Current Report on Form 8-K filed on November 30, 2016\).](#)
- 10.29 [Form of Restricted Stock Unit Contract \(Performance-Based Vesting\) \(incorporated herein by reference to Exhibit 10.2 to Arch Coal's Current Report on Form 8-k filed on November 30, 2016\).](#)
- 10.30 [Form of Performance Unit Contract \(incorporated herein by reference to Exhibit 10.2 to Arch Coal's Quarterly Report on Form 10-Q for the period ended March 31, 2013\).](#)
- 10.31 [Form of Director Indemnity Agreement \(incorporated herein by reference to Exhibit 10.40 to Arch Coal's Annual Report on Form 10-K for the period ended December 31, 2010\).](#)
- 10.32 [Stock Repurchase Agreement dated September 13, 2017, among Arch Coal, Inc. and Monarch Alternative Solutions Master Fund Ltd, Monarch Capital Master Partners III LP, MCP Holdings Master LP, Monarch Debt Recovery Master Fund Ltd and P Monarch Recovery Ltd. \(incorporated by reference to Exhibit 10.1 of Arch Coal's Current Report on Form 8-K filed on September 19, 2017\).](#)
- 31.1 [Rule 13a-14\(a\)/15d-14\(a\) Certification of John W. Eaves](#)
- 31.2 [Rule 13a-14\(a\)/15d-14\(a\) Certification of John T. Drexler.](#)
- 32.1 [Section 1350 Certification of John W. Eaves.](#)
- 32.2 [Section 1350 Certification of John T. Drexler.](#)
- 95 [Mine Safety Disclosure Exhibit.](#)

101 Interactive Data File (Form 10-Q for the three and six months ended September 30, 2017 filed in XBRL). The financial information contained in the XBRL-related documents is “unaudited” and “unreviewed.”

Signatures

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Arch Coal, Inc.

By: /s/ John T. Drexler
John T. Drexler
Senior Vice President and Chief Financial Officer (On behalf of
the registrant and as Principal Financial Officer)

October 31, 2017

FIRST AMENDMENT TO THE
SECOND AMENDED AND RESTATED PURCHASE AND SALE AGREEMENT

THIS FIRST AMENDMENT TO THE SECOND AMENDED AND RESTATED PURCHASE AND SALE AGREEMENT (this "Amendment"), dated as of December 21, 2016, is entered into among each of the parties listed on the signature pages hereto as an Originator (each an "Originator"; and collectively, the "Originators") and ARCH COAL, INC. (the "Company").

RECITALS

1. The Company and the Originators are parties to the Second Amended and Restated Purchase and Sale Agreement, dated as of October 5, 2016 (as amended, restated, supplemented or otherwise modified through the date hereof, the "Agreement").

2. Effective as of a date after the date hereof and on or prior to December 31, 2016 (such date, the "Reorganization Effective Date") each of the Originators listed on Exhibit A hereto as a "Subject Originator" (each, a "Subject Originator") will be converting from a corporation organized in the applicable State set forth on Exhibit A hereto to a limited liability company (each, a "Converted Originator") organized in such same State (such reorganization with respect to any Subject Originator, a "Subject Reorganization" and collectively, the "Subject Reorganizations").

3. In connection with the Subject Reorganizations, the parties hereto desire to amend the Agreement as hereinafter set forth.

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

SECTION 1. Certain Defined Terms. Capitalized terms that are used but not defined herein shall have the meanings set forth in the Agreement.

SECTION 2. Notice; Consent.

2.1 Notice. Each Subject Originator hereby provides notice of its intent to perform a Subject Reorganization effective as of the Reorganization Effective Date and requests that each of the parties hereto acknowledge and consent on the date hereto to the occurrence of the Subject Reorganizations on the Reorganization Effective Date.

2.2 Consent. Subject to terms and conditions set forth in this Amendment, each of the parties hereto hereby: (i) acknowledges such notice set forth in Section 2.1 above, (ii) consents to occurrence of the Subject Reorganizations on the Reorganization Effective Date and (iii) waives any notice requirement with respect to the Subject Reorganizations set forth in the Agreement or any other Transaction Document.

2.3 Authorization to File Financing Statement. In connection with the Subject Reorganizations, each of the parties hereto hereby consents to the filing, by or on behalf of the Administrator and at the Originators' sole expense, on or after the Reorganization Effective Date of the UCC-1 financing statements and UCC-3 financing statement amendments in substantially the forms attached hereto as Exhibit B.

SECTION 3. Amendments to the Agreement. The Agreement is hereby amended as of the Reorganization Effective Date as follows:

- 3.1 Schedule I to the Agreement is hereby replaced in its entirety with Schedule I attached hereto.
- 3.2 Schedule II to the Agreement is hereby replaced in its entirety with Schedule II attached hereto.
- 3.3 Schedule IV to the Agreement is hereby replaced in its entirety with Schedule IV attached hereto.
- 3.4 Schedule V to the Agreement is hereby replaced in its entirety with Schedule V attached hereto.

SECTION 4. Assumption of Subject Originators' Obligations. Each of the Subject Originators hereby covenants and agrees that in connection with the Subject Reorganizations it is transferring and assigning all of its rights, duties, obligations and liabilities under the Agreement and each of the other Transaction Document to which it is a party, to its related Converted Originator and that such related Converted Originator shall effective as of the Reorganization Effective Date (i) assume all of such rights, duties, obligations and liabilities under the Agreement and each of the other Transaction Document to which its related Subject Originator was a party and (ii) become a party to, and have the rights, duties, obligations and liabilities of an Originator under, the Agreement and each of the other Transaction Document to which its related Subject Originator was a party.

SECTION 5. Representations and Warranties. Each of the Originators hereby represents and warrants as follows:

(a) Representations and Warranties. The representations and warranties made by it in the Transaction Documents are true and correct as of the date hereof (unless stated to relate solely to an earlier date, in which case such representations or warranties were true and correct as of such earlier date).

(b) Enforceability. The execution and delivery by such Person of this Amendment, and the performance of each of its obligations under this Amendment and the Agreement, as amended hereby, are within each of its organizational powers and have been duly authorized by all necessary organizational action on its part. This Amendment and the Agreement, as amended hereby, are such Person's valid and legally binding obligations, enforceable in accordance with their respective terms.

Execution Copy

(c) No Default. Both before and immediately after giving effect to this Amendment and the transactions contemplated hereby, no Purchase and Sale Termination Event, Unmatured Purchase and Sale Termination Event, Termination Event or Unmatured Termination Event exists or shall exist.

(d) UCC Details. The legal names as well as all of the other information set forth on Schedules I, II, IV and V hereto with respect to Converted Originators shall be true and correct immediately after giving effect to the Subject Reorganizations.

SECTION 6. Effect of Amendment. All provisions of the Agreement, as expressly amended and modified by this Amendment, shall remain in full force and effect. After this Amendment becomes effective, all references in the Agreement (or in any other Transaction Document) to “this Agreement”, “hereof”, “herein” or words of similar effect referring to the Agreement shall be deemed to be references to the Agreement as amended by this Amendment. This Amendment shall not be deemed, either expressly or impliedly, to waive, amend or supplement any provision of the Agreement other than as set forth herein.

SECTION 7. Effectiveness. This Amendment shall become effective as of the date hereof (or with respect to Section 3 hereof, the Reorganization Effective Date) upon receipt by the Administrator of duly executed counterparts of this Amendment by each of the parties hereto in form and substance reasonably satisfactory to the Administrator.

SECTION 8. Counterparts. This Amendment may be executed in any number of counterparts and by different parties on separate counterparts, each of which when so executed shall be deemed to be an original and all of which when taken together shall constitute but one and the same instrument. Delivery of an executed counterpart of a signature page to this Amendment by facsimile or electronic transmission shall be effective as delivery of a manually executed counterpart hereof.

SECTION 9. Governing Law. This Amendment shall be governed by, and construed in accordance with, the internal laws of the State of New York.

SECTION 10. Section Headings. The various headings of this Amendment are included for convenience only and shall not affect the meaning or interpretation of this Amendment, the Agreement or any provision hereof or thereof.

SECTION 11. Ratification. After giving effect to this Amendment and the transactions contemplated by this Amendment, all of the provisions of the Performance Guaranty shall remain in full force and effect and the Performance Guarantor hereby ratifies and affirms the Performance Guaranty and acknowledges that (a) the Performance Guaranty has continued and shall continue in full force and effect in accordance with its terms, (b) each of the Subject Originators and each of the Converted Originators shall constitute “Covered Subsidiaries” (under and as defined in the Performance Guaranty) for purposes of the Performance Guaranty and (c) each of the Subject Originators’ and each of the Converted Originators’ obligations under the Agreement shall constitute “Guaranteed Obligations” (under and as defined in the Performance Guaranty) for purposes of the Performance Guaranty.

Execution Copy

SECTION 12. Further Assurances. Each of the Originators and the Company hereby agrees to do, at the joint and several expense of the Originators, all such things and execute all such documents and instruments and authorize and file all such financing statements and financing statement amendments, in each case, as the Administrator or the Company may reasonably consider necessary or desirable to give full effect to the transaction contemplated by this Amendment and the documents, instruments and agreements executed in connection herewith and therewith.

SECTION 13. Severability. Each provision of this Amendment shall be severable from every other provision of this Amendment for the purpose of determining the legal enforceability of any provision hereof, and the unenforceability of one or more provisions of this Amendment in one jurisdiction shall not have the effect of rendering such provision or provisions unenforceable in any other jurisdiction.

SECTION 14. Certain Covenants Regarding Post-Closing Conditions.

(a) Secretary Certificate. On or within ten (10) Business Days following the Reorganization Effective Date (or such later date as may be reasonably agreed by the Administrator in writing), the Company shall deliver (or cause to be delivered) to the Administrator a certificate of the Secretary or Assistant Secretary of each Converted Originator certifying the names and true signatures of the officers authorized on such Person's behalf to sign the Transaction Documents to be executed and delivered by it on and after the Reorganization Effective Date.

(b) Organic Documents. On or within ten (10) Business Days following the Reorganization Effective Date (or such later date as may be reasonably agreed by the Administrator in writing), the Company shall deliver (or cause to be delivered) to the Administrator the certificate or articles of incorporation or other organizational document of each Converted Originator (including all amendments and modifications thereto) duly certified by the Secretary of State of the jurisdiction of such Converted Originator's organization as of a recent date, together with a copy of the limited liability company agreement of such Converted Originator, each duly certified by the Secretary or an Assistant Secretary of such Converted Originator.

(c) Good Standing. On or within ten (10) Business Days following the Reorganization Effective Date (or such later date as may be reasonably agreed by the Administrator in writing), the Company shall deliver (or cause to be delivered) to the Administrator a good standing certificate issued as of a recent date for each Converted Originator by the Secretary of State (or similar official) of the jurisdiction of such Converted Originator's organization.

(d) Lien Search. On or within ten (10) Business Days following the Reorganization Effective Date (or such later date as may be reasonably agreed by the Administrator in writing), the Company shall deliver (or cause to be delivered) to the Administrator a completed UCC search reports, dated the Reorganization Effective Date or later, listing the financing statements filed in all applicable jurisdictions that name each Converted Originator as debtor, together with copies of such other financing statements,

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and similar search reports with respect to judgment liens, federal tax liens and liens of the Pension Benefit Guaranty Corporation in such jurisdictions, as the Administrator may reasonably request, showing no Adverse Claims on any Pool Assets other than any security interests that are released as of the Closing Date pursuant to the Confirmation Order or the Plan of Reorganization.

(e) Certain Opinions. On or within ten (10) Business Days following the Reorganization Effective Date (or such later date as may be reasonably agreed by the Administrator in writing), the Company shall deliver (or cause to be delivered) to the Administrator, favorable opinions, addressed to the Administrator, each Purchaser Agent and each Purchaser, in form and substance reasonably satisfactory to the Administrator, of external counsel for each Converted Originator, covering such matters as the Administrator may reasonably request, including, without limitation, (i) certain Delaware corporate and no conflict matters, (ii) certain organizational and New York enforceability matters and (iii) certain UCC creation and Delaware perfection matters.

(f) Certain Local Opinions. As soon as practicable following the Reorganization Effective Date and in any event not later than 120 days following the Closing Date, the Company shall deliver (or cause to be delivered) to the Administrator favorable opinions, addressed to the Administrator, each Purchaser Agent and each Purchaser, in form and substance reasonably satisfactory to the Administrator, of external counsel for the Converted Originators covering certain corporate and UCC perfection matters relating to the Converted Originators organized in Kentucky, West Virginia and Virginia as well as certain UCC perfection matters with respect to county-level filings made by each Converted Originator.

(g) Notwithstanding anything to the contrary set forth in this Amendment, the Agreement or any other Transaction Document, the failure to timely perform or cause to be performed any of the covenants under this Section 14 shall constitute a Termination Event with no grace period and revoke the consent provided for under Section 2 hereof.

[SIGNATURES BEGIN ON NEXT PAGE]

ARCH COAL, INC.,
as Company

By: /s/ Robert G. Jones
Name: Robert G. Jones
Title: Sr. Vice President-Law, General Counsel and Secretary

ARCH COAL SALES COMPANY, INC.,
as Servicer

By: /s/ Robert G. Jones
Name: Robert G. Jones
Title: Secretary

ARCH COAL SALES COMPANY, INC.
ARCH ENERGY RESOURCES, LLC
ARCH WESTERN RESOURCES, LLC
COAL-MAC, INC.
CUMBERLAND RIVER COAL COMPANY
LONE MOUNTAIN PROCESSING, INC.
MINGO LOGAN COAL COMPANY
MOUNTAIN COAL COMPANY, L.L.C.
THUNDER BASIN COAL COMPANY, L.L.C.
BRONCO MINING COMPANY, INC.
COALQUEST DEVELOPMENT LLC
HAWTHORNE COAL COMPANY, INC.
HUNTER RIDGE COAL COMPANY
HUNTER RIDGE HOLDINGS, INC.
HUNTER RIDGE, INC.
ICG BECKLEY, LLC
ICG EAST KENTUCKY, LLC
ICG ILLINOIS, LLC
ARCH COAL GROUP, LLC
ICG, LLC
ICG NATURAL RESOURCES, LLC
ICG TYGART VALLEY, LLC
INTERNATIONAL ENERGY GROUP, LLC
KING KNOB COAL CO., INC.
MARINE COAL SALES COMPANY
MELROSE COAL COMPANY, INC.
PATRIOT MINING COMPANY, INC.
SIMBA GROUP, INC.
UPSHUR PROPERTY, INC.
VINDEK ENERGY CORPORATION
WHITE WOLF ENERGY, INC.
WOLF RUN MINING COMPANY,
as Originators

By: /s/ Robert G. Jones

Name: Robert G. Jones

Title: Secretary

CONSENT TO:

PNC BANK, NATIONAL ASSOCIATION,
as Administrator and as a Purchaser Agent

By: /s/ Michael Brown

Name: Michael Brown

Title: Senior Vice President

PNC BANK, NATIONAL ASSOCIATION,
as the LC Bank

By: /s/ Michael Brown

Name: Michael Brown

Title: Senior Vice President

REGIONS BANK,
as a Purchaser Agent

By: /s/ Linda M. Harris
Name: Linda M. Harris
Title: Senior Vice President

Schedule ILIST OF ORIGINATORS

Arch Coal Sales Company, Inc.
Arch Energy Resources, LLC
Arch Western Resources, LLC
Coal-Mac LLC
Cumberland River Coal LLC
Lone Mountain Processing LLC
Mingo Logan Coal LLC
Mountain Coal Company, L.L.C.
Thunder Basin Coal Company, L.L.C.
Bronco Mining Company LLC
CoalQuest Development LLC
Hawthorne Coal Company LLC
Hunter Ridge Coal LLC
Hunter Ridge Holdings, Inc.
Hunter Ridge LLC
ICG Beckley, LLC
ICG East Kentucky, LLC
ICG Illinois, LLC
Arch Coal Group, LLC
ICG, LLC
ICG Natural Resources, LLC
ICG Tygart Valley, LLC
International Energy Group, LLC
King Knob Coal Co., Inc.
Marine Coal Sales LLC
Melrose Coal Company LLC
Patriot Mining Company LLC
Simba Group LLC
Upshur Property LLC
Vindex Energy LLC
White Wolf Energy LLC
Wolf Run Mining LLC

LOCATION OF EACH ORIGINATOR

<u>Originator</u>	<u>Location</u>
Arch Coal Sales Company, Inc.	Delaware
Arch Energy Resources, LLC	Delaware
Arch Western Resources, LLC	Delaware
Coal-Mac LLC	Kentucky
Cumberland River Coal LLC	Delaware
Lone Mountain Processing LLC	Delaware
Mingo Logan Coal LLC	Delaware
Mountain Coal Company, L.L.C.	Delaware
Thunder Basin Coal Company, L.L.C.	Delaware
Bronco Mining Company LLC	West Virginia
CoalQuest Development LLC	Delaware
Hawthorne Coal Company LLC	West Virginia
Hunter Ridge Coal LLC	Delaware
Hunter Ridge Holdings, Inc.	Delaware
Hunter Ridge LLC	Delaware
ICG Beckley, LLC	Delaware
ICG East Kentucky, LLC	Delaware
ICG Illinois, LLC	Delaware
Arch Coal Group, LLC	Delaware
ICG, LLC	Delaware
ICG Natural Resources, LLC	Delaware
ICG Tygart Valley, LLC	Delaware
International Energy Group, LLC	Delaware

King Knob Coal Co., Inc.	West Virginia
Marine Coal Sales LLC	Delaware
Melrose Coal Company LLC	West Virginia
Patriot Mining Company LLC	West Virginia
Simba Group LLC	Delaware
Upshur Property LLC	Delaware
Vindex Energy LLC	West Virginia
White Wolf Energy LLC	Virginia
Wolf Run Mining LLC	West Virginia

TRADE NAMESLegal NameTrade Names

Arch Coal Sales Company, Inc.

Arch Energy Resources, LLC

Arch Western Resources, LLC

Coal-Mac LLC

Phoenix Coal-Mac Mining, LLC

Cumberland River Coal LLC

Arch of the North Fork

Lone Mountain Processing LLC

Mingo Logan Coal LLC

Mountain Coal Company, L.L.C.

Thunder Basin Coal Company, L.L.C.

Bronco Mining Company LLC

CoalQuest Development LLC

Hawthorne Coal Company LLC

Hunter Ridge Coal LLC

Hunter Ridge Holdings, Inc.

Hunter Ridge LLC

ICG Beckley, LLC

ACI Beckley, LLC

ACI Beckley

ICG East Kentucky, LLC

ICG Illinois, LLC

ACI Illinois, LLC

Arch Coal Group, LLC

ICG, LLC

ICG Coal, LLC

ICG Natural Resources, LLC

ACI Natural Resources, LLC

ACI Natural Resources

ICG Tygart Valley, LLC

ACI Tygart Valley, LLC

International Energy Group, LLC

King Knob Coal Co., Inc

Marine Coal Sales LLC

Melrose Coal Company LLC

Patriot Mining Company LLC

Simba Group LLC

Upshur Property LLC

Vindex Energy LLC

White Wolf Energy LLC

Wolf Run Mining LLC

Schedule IV-2

LOCATION OF MINING OPERATIONS

ORIGINATORS	MINEHEAD	STATE	COUNTY
Arch Coal Sales Company, Inc.	N/A		
Arch Energy Resources, LLC	N/A		
Arch Western Resources, LLC	N/A		
Coal-Mac LLC	Holden Ragland / Phoenix	West Virginia West Virginia	Logan Mingo
Cumberland River Coal LLC	Cumberland River (aka Pardee) Cumberland River (aka Pardee)	Kentucky Virginia	Letcher Wise
Lone Mountain Processing LLC	Lone Mountain Lone Mountain	Kentucky Virginia	Harlan Lee
Mingo Logan Coal LLC	Mountain Laurel	West Virginia	Logan
Mountain Coal Company, L.L.C.	West Elk	Colorado	Gunnison
Thunder Basin Coal Company, L.L.C.	Black Thunder Coal Creek	Wyoming Wyoming	Campbell Campbell
Bronco Mining Company LLC	N/A		
CoalQuest Development LLC	N/A		
Hawthorne Coal Company LLC	N/A		
Hunter Ridge Coal LLC	N/A		
Hunter Ridge Holdings, Inc.	N/A		
Hunter Ridge LLC	N/A		
ICG Beckley, LLC	Beckley	West Virginia	Raleigh
ICG East Kentucky, LLC	East Kentucky	Kentucky	Pike
ICG Illinois, LLC	Viper	Illinois	Sangamon
Arch Coal Group, LLC	N/A		

ORIGINATORS	MINEHEAD	STATE	COUNTY
ICG, LLC	N/A		
ICG Natural Resources, LLC	N/A		
ICG Tygart Valley, LLC	Tygart Valley	West Virginia	Taylor
International Energy Group, LLC	N/A		
King Knob Coal Co., Inc.	N/A		
Marine Coal Sales LLC	N/A		
Melrose Coal Company LLC	N/A		
Patriot Mining Company LLC	Patriot Mining	West Virginia	Monogalia
Simba Group LLC	N/A		
Upshur Property LLC	N/A		
Vindex Energy LLC	Jackson Mountain Mine Vindex Energy Vindex Energy	Maryland Maryland West Virginia	Allegany Garrett Grant
White Wolf Energy LLC	N/A		
Wolf Run Mining LLC	Buckhannon Harrison Buckhannon Harrison Sentinel	West Virginia West Virginia West Virginia	Upshur Harrison Barbour

SUBJECT REORGANIZATIONS

<u>Subject Originators</u>	<u>Location</u>	<u>Converted Originators</u>	<u>Location</u>
Lone Mountain Processing, Inc.	Delaware	Lone Mountain Processing LLC	Delaware
Cumberland River Coal Company	Delaware	Cumberland River Coal LLC	Delaware
Coal-Mac, Inc.	Kentucky	Coal-Mac LLC	Kentucky
Mingo Logan Coal Company	Delaware	Mingo Logan Coal LLC	Delaware
Simba Group, Inc.	Delaware	Simba Group LLC	Delaware
Hawthorne Coal Company, Inc.	West Virginia	Hawthorne Coal Company LLC	West Virginia
Hunter Ridge Coal Company	Delaware	Hunter Ridge Coal LLC	Delaware
White Wolf Energy, Inc.	Virginia	White Wolf Energy LLC	Virginia
Bronco Mining Company, Inc.	West Virginia	Bronco Mining Company LLC	West Virginia
Upshur Property, Inc.	Delaware	Upshur Property LLC	Delaware
Marine Coal Sales Company	Delaware	Marine Coal Sales LLC	Delaware
Wolf Run Mining Company	West Virginia	Wolf Run Mining LLC	West Virginia
Patriot Mining Company, Inc.	West Virginia	Patriot Mining Company LLC	West Virginia
Melrose Coal Company, Inc.	West Virginia	Melrose Coal Company LLC	West Virginia
Vindex Energy Corporation	West Virginia	Vindex Energy LLC	West Virginia
Hunter Ridge, Inc.	Delaware	Hunter Ridge LLC	Delaware

UCC-1 FINANCING STATEMENT AND UCC-3 FINANCING STATEMENT AMENDMENTS TO BE FILED

(attached)

Exhibit B

*First Amendment to Second A&R PSA
(Arch Coal)*

Certification

I, John W. Eaves, certify that:

1. I have reviewed this quarterly report on Form 10-Q of Arch Coal, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (e) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (f) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

/s/ John W. Eaves

John W. Eaves

Chief Executive Officer, Director

Date: October 31, 2017

Certification

I, John T. Drexler, certify that:

1. I have reviewed this quarterly report on Form 10-Q of Arch Coal, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

/s/ John T. Drexler

John T. Drexler

Senior Vice President and Chief Financial Officer

Date: October 31, 2017

Certification of Periodic Financial Reports

I, John W. Eaves, Chief Executive Officer, Director of Arch Coal, Inc., certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

- (1) the Quarterly Report on Form 10-Q for the quarterly period ended September 30, 2017 (the "Periodic Report") which this statement accompanies fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m or 78o(d)); and
- (2) information contained in the Periodic Report fairly presents, in all material respects, the financial condition and results of operations of Arch Coal, Inc.

/s/ John W. Eaves

John W. Eaves

Chief Executive Officer, Director

Date: October 31, 2017

Certification of Periodic Financial Reports

I, John T. Drexler, Senior Vice President and Chief Financial Officer of Arch Coal, Inc., certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

- (1) the Quarterly Report on Form 10-Q for the quarterly period ended September 30, 2017 (the "Periodic Report") which this statement accompanies fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m or 78o(d)); and
- (2) information contained in the Periodic Report fairly presents, in all material respects, the financial condition and results of operations of Arch Coal, Inc.

/s/ John T. Drexler

John T. Drexler

Senior Vice President and Chief Financial Officer

Date: October 31, 2017

Mine Safety and Health Administration Safety Data

We believe that Arch Coal, Inc. (“Arch Coal”) is one of the safest coal mining companies in the world. Safety is a core value at Arch Coal and at our subsidiary operations. We have in place a comprehensive safety program that includes extensive health & safety training for all employees, site inspections, emergency response preparedness, crisis communications training, incident investigation, regulatory compliance training and process auditing, as well as an open dialogue between all levels of employees. The goals of our processes are to eliminate exposure to hazards in the workplace, ensure that we comply with all mine safety regulations, and support regulatory and industry efforts to improve the health and safety of our employees along with the industry as a whole.

The operation of our mines is subject to regulation by the Federal Mine Safety and Health Administration (MSHA) under the Federal Mine Safety and Health Act of 1977 (Mine Act). MSHA inspects our mines on a regular basis and issues various citations, orders and violations when it believes a violation has occurred under the Mine Act. We present information below regarding certain mining safety and health violations, orders and citations, issued by MSHA and related assessments and legal actions and mine-related fatalities with respect to our coal mining operations. In evaluating the above information regarding mine safety and health, investors should take into account factors such as: (i) the number of citations and orders will vary depending on the size of a coal mine, (ii) the number of citations issued will vary from inspector to inspector and mine to mine, and (iii) citations and orders can be contested and appealed, and in that process are often reduced in severity and amount, and are sometimes dismissed or vacated.

The table below sets forth for the three months ended September 30, 2017 for each active MSHA identification number of Arch Coal and its subsidiaries, the total number of: (i) violations of mandatory health or safety standards that could significantly and substantially contribute to the cause and effect of a coal or other mine safety or health hazard under section 104 of the Mine Act for which the operator received a citation from MSHA; (ii) orders issued under section 104(b) of the Mine Act; (iii) citations and orders for unwarrantable failure of the mine operator to comply with mandatory health or safety standards under section 104(d) of the Mine Act; (iv) flagrant violations under section 110(b)(2) of the Mine Act; (v) imminent danger orders issued under section 107(a) of the Mine Act; (vi) proposed assessments from MSHA (regardless of whether Arch Coal has challenged or appealed the assessment); (vii) mining-related fatalities; (viii) notices from MSHA of a pattern of violations of mandatory health or safety standards that are of such nature as could have significantly and substantially contributed to the cause and effect of coal or other mine health or safety hazards under section 104(e) of the Mine Act; (ix) notices from MSHA regarding the potential to have a pattern of violations as referenced in (viii) above; and (x) pending legal actions before the Federal Mine Safety and Health Review Commission (as of September 30, 2017) involving such coal or other mine, as well as the aggregate number of legal actions instituted and the aggregate number of legal actions resolved during the reporting period.

Mine or Operating Name / MSHA Identification Number	Section 104 S&S Citations (#)	Section 104(b) Orders (#)	Section 104(d) Citations and Orders (#)	Section 110(b)(2) Violations (#)	Section 107(a) Orders (#)	Total Dollar Value of MSHA Assessments Proposed (in thousands) (\$)	Total Number of Mining Related Fatalities (#)	Received Notice of Pattern of Violations Under Section 104(e) (Yes/No)	Received Notice of Potential to Have Pattern of Violations Under Section 104(e) (Yes/No)	Legal Actions Initiated During Period (#)	Legal Actions Resolved During Period (#)	Legal Actions Pending as of Last Day of Period(1) (#)
<u>Active Operations</u>												
*Lone Mountain Darby Fork / 15-02263	2	—	1	—	—	5.5	—	No	No	—	—	—
*Lone Mountain Clover Fork / 15-18647	6	1	—	—	—	13.1	—	No	No	1	—	1
*Lone Mountain Huff Creek / 15-17234	9	1	1	—	—	39.8	—	No	No	—	—	3
*Lone Mountain 6C Mine / 44-06782	—	—	—	—	—	0.1	—	No	No	—	—	—
*Lone Mountain Processing / 44-05898	—	—	—	—	—	1.0	—	No	No	—	—	—
*Lone Mountain Processing / Mayflower Prep Plant / 44-05605	—	—	—	—	—	—	—	No	No	—	—	—
*Lone Mountain Days Creek / 15-17971	—	—	—	—	—	—	—	No	No	—	—	—
*Powell Mt. Mine #1 / 15-18734	—	—	—	—	—	—	—	No	No	—	—	—
*Powell Mt. Middle Splint / 44-07207	—	—	—	—	—	—	—	No	No	—	—	—
Vindex Cabin Run / 18-00133	—	—	—	—	—	—	—	No	No	—	—	—
Vindex Bismarck / 46-09369	—	—	—	—	—	—	—	No	No	—	—	—
Vindex Jackson Mt. / 18-00170	—	—	—	—	—	—	—	No	No	—	—	—
Vindex Wolf Den Run / 18-00790	—	—	—	—	—	—	—	No	No	—	—	—
Vindex Energy / Vindex / 46-02151	—	—	—	—	—	—	—	No	No	—	—	—
Vindex Energy / Carlos Surface / 18-00769	—	—	—	—	—	—	—	No	No	—	—	—
Vindex Energy / Douglas Island / 18-00749	—	—	—	—	—	—	—	No	No	—	—	—

Vindex Energy / Dobbin Ridge Prep Plant / 46-07837	—	—	—	—	—	—	—	No	No	—	—	—
*Cumberland River Pardee Plant / 44-05014	—	—	—	—	—	—	—	No	No	—	—	—
*Cumberland River Band Mill Mine / 44-06816	—	—	—	—	—	—	—	No	No	—	—	—
*Cumberland River Pine Branch #1 / 44-07224	—	—	—	—	—	—	—	No	No	—	—	—
*Cumberland River Trace Fork #1 / 15-19533	—	—	—	—	—	—	—	No	No	—	—	—
Beckley Pocahontas Mine / 46-05252	33	—	2	—	—	71.2	—	No	No	1	5	4
Beckley Pocahontas Plant / 46-09216	—	—	—	—	—	—	—	No	No	—	—	—
Coal Mac Holden #22 Prep Plant / 46-05909	—	—	—	—	—	—	—	No	No	—	—	—
Coal Mac Ragland Loadout / 46-08563	—	—	—	—	0.1	—	—	No	No	—	—	—
Coal Mac Holden #22 Surface / 46-08984	1	—	—	—	—	0.1	—	No	No	—	—	—
Eastern Birch River Mine / 46-07945	—	—	—	—	—	—	—	No	No	—	—	—
Sentinel Mine / 46-04168	13	—	—	—	—	14.4	—	No	No	—	1	—
Sentinel Prep Plant / 46-08777	—	—	—	—	—	0.3	—	No	No	—	—	—
Mingo Logan Mountaineer II / 46-09029	20	—	—	—	—	25.2	—	No	No	2	6	3
Mingo Logan Cardinal Prep Plant / 46-09046	1	—	—	—	—	—	—	No	No	—	—	—
Mingo Logan Daniel Hollow / 46-09047	—	—	—	—	—	—	—	No	No	—	—	—
Leer #1 Mine / 46-09192	26	—	—	—	—	23.7	—	No	No	—	3	4
Arch of Wyoming Elk Mountain / 48-01694	—	—	—	—	—	—	—	No	No	—	—	—
Black Thunder / 48-00977	2	—	—	—	—	4.1	—	No	No	—	—	—
Coal Creek / 48-01215	1	—	—	—	—	1.4	—	No	No	—	—	—
West Elk Mine / 05-03672	3	—	—	—	—	13.2	—	No	No	—	—	—

Viper Mine / 11-02664	3	—	—	—	—	12.8	—	No	No	—	—	—
Leer #1 Prep Plant / 46-09191	—	—	—	—	—	—	—	No	No	—	—	—
Wolf Run Mining – Sawmill Run Prep Plant / 46-05544	—	—	—	—	—	—	—	No	No	—	—	—
Wolf Run Mining / Imperial / 46-09115	—	—	—	—	—	—	—	No	No	—	—	—
Wolf Run Mining / Upshur / 46-05823	—	—	—	—	—	—	—	No	No	—	—	—

(1) See table below for additional details regarding Legal Actions Pending as of September 30, 2017.

Mine or Operating Name/MSHA Identification Number	Contests of Citations, Orders (as of September 30, 2017)	Contests of Proposed Penalties (as of September 30, 2017)	Complaints for Compensation (as of September 30, 2017)	Complaints of Discharge, Discrimination or Interference (as of September 30, 2017)	Applications for Temporary Relief (as of September 30, 2017)	Appeals of Judges' Decisions or Orders (as of September 30, 2017)
Beckley Pocahontas Mine / 46-05252	1	3	—	—	—	—
Mingo Logan Mountaineer II / 46-09029	—	3	—	—	—	—
Leer #1 / 46-09192	—	4	—	—	—	—
*Lone Mountain Huff Creek / 15-17234	—	3	—	—	—	—
*Lone Mountain / Clover Fork #1 / 15-18647	—	1	—	—	—	—

* Lone Mountain Processing LLC, Cumberland River Coal LLC and Powell Mountain Energy, LLC were sold by Arch Coal, Inc. on September 14, 2017.