UNITED STATES SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM 8-K

CURRENT REPORT Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): October 24, 2018

CVR ENERGY, INC.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation)

001-33492

(Commission File Number)

61-1512186 (I.R.S. Employer Identification Number)

2277 Plaza Drive, Suite 500 Sugar Land, Texas 77479

(Address of principal executive offices, including zip code)

Registrant's telephone number, including area code: (281) 207-3200

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- o Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- o Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- o Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- o Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

Emerging growth company o

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

Item 2.02. Results of Operations and Financial Condition.

On October 24, 2018, CVR Energy, Inc. (the "Company") issued a press release announcing information regarding its results of operations and financial condition for the quarter and nine months ended September 30, 2018, the text of which is attached hereto as Exhibit 99.1 and is incorporated herein by reference.

The information in Item 2.02 of this Current Report on Form 8-K and Exhibit 99.1 attached hereto is being "furnished" and is not deemed "filed" by the Company for purposes of Section 18 of the Securities Exchange Act of 1934, as amended, or otherwise subject to the liabilities of that Section, nor is it deemed incorporated by reference into any filing under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended.

Item 7.01. Regulation FD Disclosure.

The information set forth under Item 2.02 is incorporated by reference as if fully set forth herein.

Item 9.01. Financial Statements and Exhibits

(d) Exhibits

The following exhibit is being "furnished" as part of this Current Report on Form 8-K:

Exhibit

Number Exhibit Description

99.1 Press Release.

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 hereunto duly authorized.

Date: October 24, 2018

CVR Energy, Inc.

By: /s/ Tracy D. Jackson

Tracy D. Jackson Executive Vice President and Chief Financial Officer



CVR Energy Reports Third Quarter 2018 Results And Announces Cash Dividend of 75 Cents

SUGAR LAND, Texas (Oct 24, 2018) - CVR Energy, Inc. (NYSE: CVI) today announced net income of \$90 million, or 94 cents per diluted share, on net sales of \$1,935 million for the third quarter of 2018, compared to net income of \$22 million, or 26 cents per diluted share, on net sales of \$1,454 million for the 2017 third quarter. Third quarter 2018 adjusted EBITDA was \$172 million, compared to third quarter 2017 adjusted EBITDA of \$91 million.

For the first nine months of 2018, net income was \$207 million, or \$2.31 per diluted share, on net sales of \$5,386 million, compared to net income of \$34 million, or 39 cents per diluted share, on net sales of \$4,395 million for the same period a year earlier. Adjusted EBITDA for the first nine months of 2018 was \$361 million, compared to adjusted EBITDA of \$209 million for the first nine months of 2017.

"CVR Refining reported solid results for the 2018 third quarter, attributable to stronger crack spreads, reduced Renewable Identification Number (RIN) costs and increased internal RIN generation, wide crude oil differentials and reliable operations," said Dave Lamp, CVR Energy's Chief Executive Officer. "Looking forward, CVR Refining will remain focused on safe and reliable operations while taking advantage of favorable product margins and crude oil spreads."

"CVR Partners posted strong operating performance and improved fertilizer netbacks at both its Coffeyville, Kansas, and East Dubuque, Illinois, fertilizer facilities during the 2018 third quarter," Lamp said. "Market conditions have continued to improve since summer and global demand for nitrogen fertilizer is strong. In addition, product pricing for the late fall of 2018 has increased by approximately 25 percent from the summer fill season and we're seeing continued pricing strength into the first quarter of 2019."

Petroleum Business

The petroleum business, which is operated by CVR Refining and includes the Coffeyville and Wynnewood refineries, reported third quarter 2018 operating income of \$176 million on net sales of \$1,857 million, compared to operating income of \$99 million on net sales of \$1,386 million in the third quarter of 2017.

Refining margin adjusted for FIFO impact per combined total throughput, a non-GAAP financial measure, was \$15.41 in the 2018 third quarter, compared to \$13.05 during the same period in 2017. Direct operating expenses (exclusive of depreciation and amortization), excluding major scheduled turnaround expenses, per combined total throughput, for the 2018 third quarter were \$4.17, compared to \$5.02 in the third quarter of 2017.

Third quarter 2018 combined total throughput was approximately 219,000 barrels per day (bpd), compared to approximately 214,000 bpd of combined total throughput for the third quarter of 2017.

Nitrogen Fertilizers Business

The fertilizer business, which is operated by CVR Partners and includes the Coffeyville and East Dubuque fertilizer facilities, reported operating income of \$3 million on net sales of \$80 million for the third quarter of 2018, compared to an operating loss of \$16 million on net sales of \$69 million for the third quarter of 2017.

CVR Partners' fertilizer facilities produced a combined 212,000 tons of ammonia during the third quarter of 2018, of which 63,000 net tons were available for sale while the rest was upgraded to other fertilizer products, including 338,000 tons of UAN. In the 2017 third quarter, the fertilizer facilities produced 181,000 tons of ammonia, of which 46,000 net tons were available for sale while the remainder was upgraded to other fertilizer products, including 307,000 tons of UAN.

Cash, Debt and Dividend

Consolidated cash and cash equivalents was \$702 million at Sep 30, 2018. Consolidated total debt was \$1,168 million at Sep 30, 2018. The company had no debt exclusive of CVR Refining's and CVR Partners' debt.

CVR Energy also announced a third quarter 2018 cash dividend of 75 cents per share. The dividend, as declared by CVR Energy's Board of Directors, will be paid on Nov. 12, 2018, to stockholders of record on Nov. 5, 2018. CVR Energy's third quarter cash dividend brings the cumulative cash dividends paid or declared for the first nine months of 2018 to \$2.00 per share.

Today, CVR Refining announced a 2018 third quarter cash distribution of 90 cents per common unit. CVR Partners announced that it will not pay a cash distribution for the 2018 third quarter.

Third Quarter 2018 Earnings Conference Call

CVR Energy previously announced that it will host its third quarter 2018 Earnings Conference Call on Thursday, Oct. 25, at 3 p.m. Eastern. The Earnings Conference Call may also include discussion of company developments, forward-looking information and other material information about business and financial matters.

The third quarter 2018 Earnings Conference Call will be webcast live and can be accessed on the Investor Relations section of CVR Energy's website at www.CVREnergy.com. For investors or analysts who want to participate during the call, the dial-in number is (877) 407-8291. The webcast will be archived and available through Nov. 8 at https://edge.media-server.com/m6/p/m5j97b6c. A repeat of the call can be accessed through Nov. 8 by dialing (877) 660-6853, conference ID 13683849.

Forward-Looking Statements

This news release may contain forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. Statements concerning current estimates, expectations and projections about future results, performance, prospects, opportunities, plans, actions and events and other statements, concerns, or matters that are not historical facts are "forward-looking statements," as that term is defined under the federal securities laws. These forward-looking statements include, but are not limited to, statements regarding future: crude oil differentials or spreads; RINs, crude oil, feedstock and product prices; distributions and operating performance of CVR Refining and CVR Partners; reserves; improved market conditions; global demand; ammonia and UAN pricing; fourth quarter performance including throughput, production, direct operating expenses, capital spending and depreciation; safe and reliable operations; favorable product margins; and other matters. You can generally identify forwardlooking statements by our use of forward-looking terminology such as "anticipate," "believe," "continue," "could," "estimate," "expect," "explore," "evaluate," "intend," "may," "might," "plan," "potential," "predict," "seek," "should," or "will," or the negative thereof or other variations thereon or comparable terminology. These forward-looking statements are only predictions and involve known and unknown risks and uncertainties, many of which are beyond our control. Investors are cautioned that various factors may affect these forward-looking statements, including (among others) price volatility of crude oil, other feedstocks and refined products; the ability of CVR Refining and CVR Partners to make cash distributions; potential operating hazards; costs of compliance with existing, or compliance with new, laws and regulations and potential liabilities arising therefrom; impacts of planting season on CVR Partners; general economic and business conditions; and other risks. For additional discussion of risk factors which may affect our results, please see the risk factors and other disclosures included in our most recent Annual Report on Form 10-K, any subsequently filed Quarterly Reports on Form 10-Q and our other SEC filings. These and other risks may cause our actual results, performance or achievements to differ materially from any future results, performance or achievements expressed or implied by these forward-looking statements. Given these risks and uncertainties, you are cautioned not to place undue reliance on such forward-looking statements. The forward-looking statements included in this news release are made only as of the date

hereof. CVR Energy disclaims any intention or obligation to update publicly or revise any forward-looking statements, whether as a result of new information, future events or otherwise, except to the extent required by law.

About CVR Energy, Inc.

Headquartered in Sugar Land, Texas, CVR Energy is a diversified holding company primarily engaged in the petroleum refining and nitrogen fertilizer manufacturing industries through its holdings in two limited partnerships, CVR Refining, LP and CVR Partners, LP. CVR Energy and its subsidiaries serve as the general partner and own 81 percent of the common units of CVR Refining and CVR Energy subsidiaries serve as the general partner and own 34 percent of the common units of CVR Partners.

For further information, please contact:

Investor Contact:

Jay Finks CVR Energy, Inc. (281) 207-3588 InvestorRelations@CVREnergy.com

Media Relations:

Brandee Stephens CVR Energy, Inc. (281) 207-3516 MediaRelations@CVREnergy.com

CVR Energy, Inc.

Financial and Operational Data (all information in this release is unaudited other than the balance sheet data as of December 31, 2017).

	Thre		Ended 80,	September	Ni	September		
(In millions, except per share data)		2018		2017		2018		2017
Consolidated Statement of Operations Data:								
Net sales	\$	1,935	\$	1,454	\$	5,386	\$	4,395
Operating costs and expenses:								
Cost of materials and other		1,561		1,133		4,370		3,582
Direct operating expenses (1)		121		160		394		422
Depreciation and amortization		49		51		151		152
Cost of sales		1,731		1,344		4,915		4,156
Selling, general and administrative expenses (1)		28		27		83		82
Depreciation and amortization		2		3		8		7
Loss on asset disposals		_		1		5		2
Operating income		174		79		375		148
Interest expense, net		(26)		(28)		(79)		(81)
Gain (loss) on derivatives, net		5		(17)		75		(5)
Other income, net		3		_		6		_
Income before income tax expense		156		34		377		62
Income tax expense		35		9		73		18
Net income		121		25		304		44
Less: Net income attributable to noncontrolling interest		31		3		97		10
Net income attributable to CVR Energy stockholders	\$	90	\$	22	\$	207	\$	34
Basic and diluted earnings per share	\$	0.94	\$	0.26	\$	2.31	\$	0.39
Dividends declared per share	\$	0.75	\$	0.50	\$	2.00	\$	1.50
21 ruenas acciarea per siture	Ψ	0.75	Ψ	0.50	Ψ	2.00	Ψ	1.50
Adjusted EBITDA*	\$	172	\$	91	\$	361	\$	209
Adjusted net income (loss) *		91		32		170		52
Adjusted net income (loss) per diluted share *		0.95		0.37		1.89		0.60
Weighted-average common shares outstanding - basic and diluted		95.8		86.8		89.8		86.8

^{*} See "Use of Non-GAAP Financial Measures" below.

(In millions)

	As of Septem	ber 30, 2018	As of	December 31, 2017
Balance Sheet Data:				
Cash and cash equivalents	\$	702	\$	482
Working capital		786		550
Total assets		4,002		3,807
Total debt, including current portion		1,168		1,166
Total CVR stockholders' equity		1,239		919

⁽¹⁾ Direct operating expenses and selling, general and administrative expenses for the three and nine months ended September 30, 2018 and 2017 are shown exclusive of depreciation and amortization.

	Three	indec	Nine Months Ended September 30,					
(In millions)		2018		2017		2018		2017
Cash Flow Data:								
Net cash flow provided by (used in):								
Operating activities	\$	290	\$	85	\$	519	\$	327
Investing activities		(26)		(22)		(67)		(81)
Financing activities		(96)		(44)		(232)		(133)
Net increase in cash and cash equivalents	\$	168	\$	19	\$	220	\$	113

Segment Information

Our operations are organized into two reportable segments, Petroleum and Nitrogen Fertilizer. Our operations that are not included in the Petroleum and Nitrogen Fertilizer segments are included in the Corporate and Other segment (along with elimination of intersegment transactions). The Petroleum segment is operated by CVR Refining, LP ("CVR Refining"), in which we own a majority interest as well as serve as the general partner. The Petroleum segment includes the operations of the Coffeyville, Kansas and Wynnewood, Oklahoma refineries along with the crude oil gathering and pipeline systems. Detailed operating results for the Petroleum segment for the three and nine months ended September 30, 2018 are included in CVR Refining's press release dated October 24, 2018. The Nitrogen Fertilizer segment is operated by CVR Partners, LP ("CVR Partners"), in which we own approximately 34% of the common units as of September 30, 2018 and serve as the general partner. The Nitrogen Fertilizer segment consists of nitrogen fertilizer manufacturing facilities located in Coffeyville, Kansas and East Dubuque, Illinois. Detailed operating results for the Nitrogen Fertilizer segment for the three and nine months ended September 30, 2018 are included in CVR Partners' press release dated October 24, 2018.

(In millions)	Pe	etroleum (CVR Refining)	_	en Fertilizer R Partners)	Corporate and Other	Consolidated
Three Months Ended September 30, 2018						
Net sales	\$	1,857	\$	80	\$ (2)	\$ 1,935
Cost of materials and other		1,544		19	(2)	1,561
Direct operating expenses		85		35	1	121
Selling, general and administrative		18		7	3	28
Depreciation and amortization		34		16	1	51
Loss on asset disposals		_		_	_	_
Operating income (loss)	\$	176	\$	3	\$ (5)	\$ 174
Capital expenditures	\$	18	\$	6	\$ 2	\$ 26

(In millions)	Pe	Petroleum (CVR Refining)		Nitrogen Fertilizer (CVR Partners)		Corporate and Other	Consolidated		
Nine Months Ended September 30, 2018	_	reming		(CVICI artifers)	_	Other		Consonaucu	
Net sales	\$	5,139	\$	253	\$	(6)	\$	5,386	
Cost of materials and other		4,315		61		(6)		4,370	
Direct operating expenses		272		121		1		394	
Selling, general and administrative		56		19		8		83	
Depreciation and amortization		101		53		5		159	
Loss on asset disposals		5				<u> </u>		5	
Operating income (loss)	\$	390	\$	(1)	\$	(14)	\$	375	
Capital expenditures	\$	50	\$	15	\$	3	\$	68	

(In millions)	oleum (CVR tefining)	rogen Fertilizer CVR Partners)	porate and Other	Consolidated
Three Months Ended September 30, 2017				
Net sales	\$ 1,386	\$ 69	\$ (1)	\$ 1,454
Cost of materials and other	1,114	20	(1)	1,133
Direct operating expenses	120	40	_	160
Selling, general and administrative	19	5	3	27
Depreciation and amortization	33	20	1	54
Loss on asset disposals	1	_	_	1
Operating income (loss)	\$ 99	\$ (16)	\$ (4)	\$ 79
Capital expenditures	\$ 19	\$ 3	\$ 1	\$ 23

(In millions)	1	Petroleum (CVR Refining)	`		Corpor Otl		Consolidated
Nine Months Ended September 30, 2017							
Net sales	\$	4,148	\$	253	\$	(6)	\$ 4,395
Cost of materials and other		3,524		63		(5)	3,582
Direct operating expenses		308		114		_	422
Selling, general and administrative		58		19		5	82
Depreciation and amortization		100		55		4	159
Loss on asset disposals		1		_		1	2
Operating income (loss)	\$	157	\$	2	\$	(11)	\$ 148
Capital expenditures	\$	66	\$	11	\$	3	\$ 80

(In millions)	roleum (CVR Refining)		trogen Fertilizer CVR Partners)		Corporate and Other	Consolidated
September 30, 2018	 Tremmig)		e vici ur tilers)		Other	 Consonautea
-	200	_		_		
Cash and cash equivalents	\$ 398	\$	61	\$	243	\$ 702
Total assets	2,505		1,219		278	4,002
Total debt, including current portion	539		628		1	1,168
December 31, 2017						
Cash and cash equivalents	\$ 174	\$	49	\$	259	\$ 482
Total assets	2,270		1,234		303	3,807
Total debt, including current portion	541		626		_	1,166

Petroleum Segment Operating Data

The following tables set forth information about our consolidated Petroleum segment operated by CVR Refining, of which we own a majority interest and serve as the general partner. Reconciliations of certain non-GAAP financial measures are provided under "Use of Non-GAAP Financial Measures" below. Additional discussion of operating results for the Petroleum segment for the three and nine months ended September 30, 2018 are included in CVR Refining's press release dated October 24, 2018.

	Three Months Ended September 30,					Nine Months Ended September 30,					
(In millions)		2018		2017		2018		2017			
Petroleum Segment Summary Financial Results:					-		_				
Net sales	\$	1,857	\$	1,386	\$	5,139	\$	4,148			
Operating costs and expenses:											
Cost of materials and other		1,544		1,114		4,315		3,524			
Direct operating expenses (1)		85		120		272		308			
Depreciation and amortization		33		32		98		97			
Cost of sales		1,662		1,266		4,685		3,929			
Selling, general and administrative expenses (1)		18		19		56		58			
Depreciation and amortization		1		1		3		3			
Loss on asset disposals		_		1		5		1			
Operating income		176		99		390		157			
Interest expense, net		(10)		(12)		(32)		(34)			
Gain (loss) on derivatives, net		5		(17)		75		(5)			
Other income, net		3		_		6		_			
Net income	\$	174	\$	70	\$	439	\$	118			
Refining margin*	\$	313	\$	272	\$	824	\$	624			
Refining margin adjusted for FIFO impact*		310		257		779		625			
Adjusted Petroleum EBITDA*		221		139		494		296			

^{*} See "Use of Non-GAAP Financial Measures" below.

⁽¹⁾ Direct operating expense and selling, general and administrative expenses for the three and nine months ended September 30, 2018 and 2017 are shown exclusive of depreciation and amortization.

(In dollars per total throughput barrel)	 Three Mor Septen	 30,	 Nine Mon Septen	 30,
	 2018	 2017	 2018	 2017
Petroleum Segment Key Operating Statistics:				
Gross profit	\$ 9.70	\$ 6.07	\$ 7.99	\$ 3.61
Refining margin*	\$ 15.54	\$ 13.81	\$ 14.50	\$ 10.32
FIFO impact, (favorable) unfavorable	\$ (0.13)	\$ (0.76)	\$ (0.79)	\$ 0.01
Refining margin adjusted for FIFO impact*	\$ 15.41	\$ 13.05	\$ 13.71	\$ 10.33
Direct operating expenses and major turnaround expenses	\$ 4.23	\$ 6.12	\$ 4.79	\$ 5.11
Direct operating expenses excluding major turnaround expenses	\$ 4.17	\$ 5.02	\$ 4.77	\$ 4.49
	\$ 4.17	\$ 5.02	\$ 4.77	\$ 4.49

^{*} See "Use of Non-GAAP Financial Measures" below.

	 Three Mon Septen	 	Nine Mor Septen		
	2018	2017	2018		2017
Market Indicators (dollars per barrel):					
West Texas Intermediate (WTI) NYMEX	\$ 69.43	\$ 48.20	\$ 66.79	\$	49.36
Crude Oil Differentials:					
WTI less WTS (light/medium sour)	14.26	0.97	8.14		1.15
WTI less WCS (heavy sour)	27.76	10.48	23.77		11.42
WTI less condensate	0.37	0.12	0.40		0.12
Midland Cushing Differential	14.33	0.79	7.69		0.54
NYMEX Crack Spreads:					
Gasoline	16.96	20.42	17.69		17.74
Heating Oil	22.03	21.05	21.59		17.24
NYMEX 2-1-1 Crack Spread	19.50	20.73	19.64		17.49
PADD II Group 3 Basis:					
Gasoline	(0.13)	(1.18)	(2.16)		(2.37)
Ultra Low Sulfur Diesel	0.89	0.85	0.08		(0.44)
PADD II Group 3 Product Crack Spread:					
Gasoline	16.83	19.23	15.53		15.37
Ultra Low Sulfur Diesel	22.92	21.90	21.67		16.80
PADD II Group 3 2-1-1	19.88	20.57	18.60		16.09

	Three I	Months End	ed September	r 30,	Nine I	Months End	ed September	· 30 ,
	2018	8	201	7	201	8	201	7
Petroleum Segment Summary		%		%		%		%
Refining Throughput and Production Data (bpd):								
Throughput:								
Condensate	8,425	3.8	1	_	13,156	6.3	2,893	1.3
Sweet	193,727	88.5	196,341	91.9	179,964	86.5	195,857	88.5
Heavy sour	6,746	3.1	6,751	3.2	4,518	2.2	11,643	5.3
Total crude oil throughput	208,898	95.4	203,093	95.1	197,638	95.0	210,393	95.1
All other feedstocks and blendstocks	10,008	4.6	10,513	4.9	10,454	5.0	10,943	4.9
Total throughput	218,906	100.0	213,606	100.0	208,092	100.0	221,336	100.0
Production:								
Gasoline	111,087	50.8	105,712	49.5	103,258	49.6	112,268	50.6
Distillate	94,157	43.0	89,655	42.0	89,325	42.9	92,046	41.5
Other (excluding internally produced fuel)	13,497	6.2	18,107	8.5	15,486	7.5	17,385	7.9
Total refining production (excluding internally produced fuel)	218,741	100.0	213,474	100.0	208,069	100.0	221,699	100.0

	Three	Months End	ed Septembe	r 30,	Nine Months Ended September 30,						
	201	8	201	17	20:	18	2017				
		%		%		%		%			
Coffeyville Refinery Throughput and Production Data (bpd):											
Throughput:											
Condensate	273	0.2	1	_	6,448	5.1	2,893	2.1			
Sweet	127,792	90.3	121,709	89.6	109,937	86.4	116,468	83.7			
Heavy sour	6,746	4.8	6,751	5.0	4,518	3.6	11,643	8.4			
Total crude oil throughput	134,811	95.3	128,461	94.6	120,903	95.1	131,004	94.2			
All other feedstocks and blendstocks	6,664	4.7	7,415	5.4	6,238	4.9	8,124	5.8			
Total throughput	141,475	100.0	135,876	100.0	127,141	100.0	139,128	100.0			
Production:											
Gasoline	72,337	50.7	67,598	49.1	62,543	48.7	70,697	50.1			
Distillate	60,521	42.4	57,654	41.9	54,914	42.7	58,927	41.7			
Other (excluding internally produced fuel)	9,900	6.9	12,355	9.0	11,066	8.6	11,619	8.2			
Total refining production (excluding internally produced fuel)	142,758	100.0	137,607	100.0	128,523	100.0	141,243	100.0			

	Three	Months End	ed September	r 30,	Nine Months Ended September 30,						
-	201	8	201	7	201	8	201	7			
_		%		%		%		%			
Wynnewood Refinery Throughput and Production Data (bpd):											
Throughput:											
Condensate	8,152	10.5	_	_	6,708	8.3	_	_			
Sweet	65,936	85.2	74,632	96.0	70,026	86.5	79,389	96.6			
Total crude oil throughput	74,088	95.7	74,632	96.0	76,734	94.8	79,389	96.6			
All other feedstocks and blendstocks	3,344	4.3	3,098	4.0	4,216	5.2	2,819	3.4			
Total throughput	77,432	100.0	77,730	100.0	80,950	100.0	82,208	100.0			
Production:											
Gasoline	38,750	51.0	38,114	50.2	40,715	51.2	41,571	51.6			
Distillate	33,636	44.3	32,001	42.2	34,411	43.2	33,119	41.2			
Other (excluding internally produced fuel)	3,597	4.7	5,752	7.6	4,420	5.6	5,766	7.2			
Total refining production (excluding internally produced fuel)	75,983	100.0	75,867	100.0	79,546	100.0	80,456	100.0			

Nitrogen Fertilizer Segment Operating Data

The following tables set forth information about the Nitrogen Fertilizer segment operated by CVR Partners, of which we own approximately 34% of the common units as of September 30, 2018 and serve as the general partner. Reconciliations of certain non-GAAP financial measures are provided under "Use of Non-GAAP Financial Measures" below. Additional discussion of operating results for the Nitrogen Fertilizer segment for the three and nine months ended September 30, 2018 are included in CVR Partners' press release dated October 24, 2018.

	Thre		Ended 80,	September	Nine Months Ended September 30,				
(In millions)	2018			2017	2018			2017	
Nitrogen Fertilizer Segment Business Financial Results:									
Net sales	\$	80	\$	69	\$	253	\$	253	
Cost of materials and other		19		20		61		63	
Direct operating expenses(1)		35		40		121		114	
Depreciation and amortization		16		20		53		55	
Cost of sales		70		80		235		232	
Selling, general and administrative expenses		7		5		19		19	
Loss on asset disposals		_		— 0		_		_	
Operating income (loss)		3		(16)		(1)		2	
Interest expense, net		(16)		(16)		(47)		(47)	
Other income, net		_		_		_		_	
Net loss	\$	(13)	\$	(32)	\$	(48)	\$	(45)	
Adjusted Nitrogen Fertilizer EBITDA*	\$	19	\$	5	\$	58	\$	58	

^{*} See "Use of Non-GAAP Financial Measures" below.

⁽¹⁾ Direct operating expenses for the three and nine months ended September 30, 2018 and 2017 are shown exclusive of depreciation and amortization.

		Three Mo	onths l mber 3		Nin		Ended 30,	September
		2018		2017		2018		2017
Nitrogen Fertilizer Segment Key Operating Statistics:								
Consolidated sales (thousand tons):								
Ammonia		38		65		156		202
UAN		310		299		925		952
Consolidated product pricing at gate (dollars per ton) (1):								
Ammonia	\$	297	\$	214	\$	329	\$	287
UAN	\$	170	\$	138	\$	169	\$	158
Consolidated production volume (thousand tons):								
Ammonia (gross produced) (2)		212		181		584		615
Ammonia (net available for sale) (2)		63		46		187		204
UAN		338		307		919		962
Feedstock:								
Petroleum coke used in production (thousand tons)		117		114		325		371
Petroleum coke used in production (dollars per ton)	\$	26	\$	18	\$	23	\$	18
Natural gas used in production (thousands of MMBtus)(3)		2,118		1,555		5,933		5,781
Natural gas used in production (dollars per MMBtu)(3)	\$	3.03	\$	3.12	\$	3.01	\$	3.25
Natural gas in cost of materials and other (thousands of MMBtus)(3)		1,439		1,935		5,268		5,898
Natural gas in cost of materials and other (dollars per MMBtu)(3)	\$	2.98	\$	3.15	\$	3.03	\$	3.30
Coffeyville Facility on-stream factor (4):								
Gasification		100%		96%		91%		98%
Ammonia		100%		94%		90%		97%
UAN		97%		94%		88%		93%
East Dubuque Facility on-stream factors (4):								
Ammonia		99%		76%		93%		92%
UAN		98%		77%		93%		92%
Market Indicators:								
Ammonia — Southern Plains (dollars per ton)	\$	337	\$	238	\$	354	\$	314
Ammonia — Corn belt (dollars per ton)	\$	398	\$	303	\$	407	\$	364
UAN — Corn belt (dollars per ton)	\$	203	\$	165	\$	208	\$	192
Natural gas NYMEX (dollars per MMBtu)	\$	2.87	\$	2.95	\$	2.85	\$	3.05
Traducti gas IV I IVIDA (dollars per ivilvidia)	φ	2.07	ψ	2.33	ψ	2.03	Φ	3.03

Product pricing at gate represents net sales less freight revenue divided by product sales volume in tons and is shown in order to provide a pricing measure that is comparable across the fertilizer industry.

Gross tons produced for ammonia represent total ammonia produced, including ammonia produced that was upgraded into other fertilizer products. Net tons available for sale represent the ammonia available for sale that was not upgraded into other fertilizer products.

The feedstock natural gas shown above does not include natural gas used for fuel. The cost of fuel natural gas is included in direct operating expense (exclusive of depreciation and amortization).

(4) On-stream factor is the total number of hours operated divided by the total number of hours in the reporting period and is included as a measure of operating efficiency.

Use of Non-GAAP Financial Measures

Our management uses certain non-GAAP performance measures to evaluate past performance and prospects for the future to supplement our GAAP financial information presented in accordance with U.S. GAAP. These non-GAAP financial measures are important factors in assessing our operating results and profitability and include performance and liquidity measures along with certain key operating metrics.

Performance and Liquidity Measures

We use the following performance and liquidity measures:

EBITDA and Adjusted EBITDA. EBITDA represents net income attributable to CVR Energy stockholders before consolidated (i) interest expense and other financing costs, net of interest income; (ii) income tax expense (benefit); and (iii) depreciation and amortization, less the portion of these adjustments attributable to noncontrolling interest. Adjusted EBITDA represents EBITDA adjusted for consolidated (i) FIFO impact (favorable) unfavorable; (ii) major turnaround expenses (that many of our competitors capitalize and thereby exclude from their measures of EBITDA and adjusted EBITDA); (iii) (gain) loss on derivatives, net; and (iv) current period settlements on derivative contracts. EBITDA and Adjusted EBITDA are not recognized terms under GAAP and should not be substituted for net income or cash flow from operations. We believe that EBITDA and Adjusted EBITDA enable investors to better understand and evaluate our ongoing operating results and allow for greater transparency in reviewing our overall financial, operational and economic performance. EBITDA and Adjusted EBITDA presented by other companies may not be comparable to our presentation, since each company may define these terms differently. EBITDA and Adjusted EBITDA represent EBITDA and Adjusted EBITDA that is attributable to CVR Energy stockholders.

Adjusted net income (loss) is not a recognized term under GAAP and should not be substituted for net income as a measure of our performance, but rather should be utilized as a supplemental measure of financial performance in evaluating our business. Management believes that adjusted net income (loss) provides relevant and useful information that enables external users of our financial statements, such as industry analysts, investors, lenders and rating agencies, to better understand and evaluate our ongoing operating results and allow for greater transparency in the review of our overall financial, operational and economic performance. Adjusted net income (loss) per diluted share represents adjusted net income (loss) divided by the weighted-average diluted shares outstanding. Adjusted net income (loss) represents net income, as adjusted, that is attributable to CVR Energy stockholders.

<u>Petroleum EBITDA</u>. EBITDA is a performance measure representing net income before (i) interest expense and other financing costs, net of interest income, (ii) income tax expense and (iii) depreciation and amortization.

Petroleum Adjusted EBITDA. Adjusted EBITDA is a performance measure representing EBITDA adjusted for (i) (favorable) unfavorable FIFO impacts associated with our crude oil and refined product inventories, (ii) major turnaround expenses (that many of our competitors capitalize and thereby exclude from their measures of EBITDA and adjusted EBITDA), (iii) (gain) loss on derivatives, net and (iv) current period settlements on derivative contracts. Adjusted EBITDA represents the starting point for determining available cash for distribution. Refer to discussion below for the Refining margin, adjusted for FIFO impact non-GAAP measure for discussion of why management adjusted for the FIFO impact of our inventories. We exclude major turnaround expenses because these amounts are required expenditures for our refineries, are not closely related to current period operations, and many of our peer companies capitalize these amounts thereby excluding these amounts from their EBITDA-related measures. For derivatives, we adjust EBITDA to exclude the unrealized or non-cash portion of our derivative gain or loss from our results in order to arrive at our starting point for available cash for distribution.

Nitrogen EBITDA. Nitrogen Fertilizer EBITDA represents nitrogen fertilizer net loss adjusted for (i) interest (income) expense; (ii) income tax expense; and (iii) depreciation and amortization expense. Adjusted Nitrogen Fertilizer EBITDA represents Nitrogen Fertilizer EBITDA adjusted for (i) major turnaround expenses, when applicable; (ii) gain or loss on extinguishment of debt; and (iii) business interruption insurance recovery, when applicable. We present Adjusted Nitrogen Fertilizer EBITDA because we have found it helpful to consider an operating measure that excludes expenses, such as major turnaround expense, gain or loss on extinguishment of debt, loss on disposition of assets, and business interruption insurance recovery, relating to transactions not reflective of CVR Partner's core operations.

Nitrogen Adjusted EBITDA. We also present Adjusted Nitrogen Fertilizer EBITDA because it is the starting point for calculating CVR Partner's available cash for distribution. Adjusted Nitrogen Fertilizer EBITDA is not a recognized term under GAAP and should not be substituted for net loss as a measure of performance. We believe that Nitrogen Fertilizer EBITDA and Adjusted Nitrogen Fertilizer EBITDA enable investors and analysts to better understand CVR Partner's ability to make distributions to its common unitholders, help investors and analysts evaluate its ongoing operating results and allow for greater transparency in reviewing our overall financial, operational and economic performance by allowing investors to evaluate the same information used by management. Nitrogen Fertilizer EBITDA and Adjusted Nitrogen Fertilizer EBITDA presented by other companies may not be comparable to our presentation, since each company may define these terms differently.

<u>Refining margin.</u> This performance measure represents the difference between net sales and cost of materials and other as reported on our Condensed Consolidated Statements of Operations.

Refining margin, adjusted for FIFO impact. This performance measure represents our refining margin adjusted to exclude the impact of price changes in our crude oil and refined products inventories. Under our FIFO accounting method for crude oil and refined products, changes in crude oil prices can cause fluctuations in the inventory valuation of our raw material, work in process and finished good inventories, thereby resulting in a favorable FIFO impact when crude oil prices increase and an unfavorable FIFO impact when crude oil prices decrease. In periods of significant price volatility, these price changes have a significant impact on the valuation on our inventories and thus our results.

Available cash for distribution. This performance and liquidity measure is equal to Adjusted EBITDA reduced for cash needed for (i) debt service, (ii) reserves for environmental and maintenance capital expenditures, (iii) reserves for major turnaround expenses and, to the extent applicable, (iv) reserves for future operating or capital needs that the board of directors of our general partner deems necessary or appropriate, if any. Available cash for distribution may be increased by the release of previously established cash reserves, if any, and other excess cash, at the discretion of the board of directors of our general partner.

Operating Metrics

During the second quarter of 2018, we changed the metrics discussed below from a crude oil throughput barrel basis to a total throughput barrel basis. Prior period information has been revised to conform to current presentation.

Refining margin and refining margin adjusted for FIFO impact per total throughput barrel. For both refining margin and refining margin adjusted for FIFO impact, we present these measures on a per total throughput barrel basis. In order to calculate these non-GAAP operating metrics, we utilize the total dollar figures for refining margin and refining margin adjusted for FIFO impact, as derived above and divide by the applicable number of total throughput barrels for the period.

<u>Direct operating expenses, excluding major turnaround expenses, per total throughput barrel.</u> We provide this performance measure to exclude major turnaround expenses from the reported amounts of direct operating expense during a given period. Major turnaround expenses are not directly correlated to our current period operations and thus excluding them provides investors and analysts with the current period cost, exclusive of depreciation and amortization, we incur to convert a barrel of crude oil into refined product.

We present these measures because we believe they may help investors, analysts, lenders and ratings agencies analyze our results of operations and liquidity in conjunction with our U.S. GAAP results, including but not limited to our operating performance as compared to other publicly traded companies in the refining industry, without regard to historical cost basis or financing methods and our ability to incur and service debt and fund capital expenditures. Non-GAAP measures have important limitations as analytical tools, because they exclude some, but not all, items that affect net earnings and operating income. These measures should not be considered substitutes for their most directly comparable U.S. GAAP financial measures.

A reconciliation of net income attributable to CVR Energy stockholders to EBITDA and EBITDA to Adjusted EBITDA for the three and nine months ended September 30, 2018 and 2017 is as follows:

	Three Mo Septer	 	Nine Months Ended September 30,					
(In millions)	2018	2017		2018		2017		
Net income attributable to CVR Energy stockholders	\$ 90	\$ 22	\$	207	\$	34		
Add:								
Interest expense, net	26	28		79		81		
Income tax expense	35	9		73		18		
Depreciation and amortization	51	54		159		159		
Adjustments attributable to noncontrolling interest	(31)	(38)		(107)		(113)		
EBITDA	 171	75		411		179		
Add:								
FIFO impact, (favorable) unfavorable	(3)	(15)		(45)		1		
Major turnaround expenses	1	24		7		39		
Loss on derivatives, net	(5)	17		(75)		5		
Current period settlement on derivative contracts (1)	10	_		41		1		
Insurance recovery - business interruption	_	(1)		_		(1)		
Adjustments attributable to noncontrolling interest	(2)	(9)		22		(15)		
Adjusted EBITDA	\$ 172	\$ 91	\$	361	\$	209		

	Three Mo Septe	 	Nine Months Ended September 30,			
(In millions, except per share data)	2018	2017		2018		2017
Reconciliation of Income before income tax expense to Adjusted Net Income:						
Income before income tax expense	\$ 156	\$ 34	\$	377	\$	62
Adjustments:						
FIFO impact, (favorable) unfavorable	(3)	(15)		(45)		1
Major turnaround expenses	1	24		7		39
Gain on derivatives, net	(5)	17		(75)		5
Current period settlement on derivative contracts (1)	10	_		41		1
Insurance recovery - business interruption	_	(1)		_		(1)
Adjusted net income before income tax expense and noncontrolling interest	159	59		305		107
Adjusted net income attributed to noncontrolling interest	(32)	(12)		(75)		(26)
Income tax expense, as adjusted	(36)	(15)		(60)		(29)
Adjusted net income	\$ 91	\$ 32	\$	170	\$	52
Adjusted net income per diluted share	\$ 0.95	\$ 0.37	\$	1.89	\$	0.60

We have changed our metrics in the second quarter of 2018 from a crude oil throughput barrel basis to a total throughput barrel basis, and we have revised the historical information for the corresponding period of the prior fiscal year from to reflect this change in metrics.

	 Three Moi Septen	Nine Months Ended September 30,					
(In millions)	2018	:	2017		2018		2017
Petroleum Segment:							
Petroleum net income	\$ 174	\$	70	\$	439	\$	118
Add:							
Interest expense, net	10		12		32		34
Depreciation and amortization	34		33		101		100
Petroleum EBITDA	 218		115		572		252
Add:							
FIFO impact, (favorable) unfavorable	(3)		(15)		(45)		1
Major turnaround expenses	1		22		1		37
Loss on derivatives, net	(5)		17		(75)		5
Current period settlements on derivative contracts (1)	10		_		41		1
Adjusted Petroleum EBITDA	\$ 221	\$	139	\$	494	\$	296

⁽¹⁾ Represents the portion of gain on derivatives, net related to contracts that matured during the respective periods and settled with counterparties. There are no premiums paid or received at inception of the derivative contracts. Upon settlement there is no cost recovery associated with these contracts.

	Three Months Ended September 30,					Nine Months Ended September 30,				
(In millions)	2018 2017			2017		2018	2017			
Net sales	\$	1,857	\$	1,386	\$	5,139	\$	4,148		
Cost of materials and other		1,544		1,114		4,315		3,524		
Direct operating expenses (exclusive of depreciation and amortization as reflected below)		85		120		272		308		
Depreciation and amortization		33		32		98		97		
Gross profit		195		120		454		219		
Add:										
Direct operating expenses (exclusive of depreciation and amortization as reflected below)		85		120		272		308		
Depreciation and amortization		33		32		98		97		
Refining margin		313		272		824		624		
FIFO impact, (favorable) unfavorable		(3)		(15)		(45)		1		
Refining margin adjusted for FIFO impact	\$	310	\$	257	\$	779	\$	625		

	Three Months End	ed September 30,	Nine Months Ended September 3					
	2018	2017	2018	2017				
Total throughput barrels per day	218,906	213,606	208,092	221,336				
Days in the period	92	92	273	273				
Total throughput barrels	20,139,352	19,651,752	56,809,116	60,424,728				

	Three Months Ended September 30,					ine Months En	ded September 30,			
	2018 2017			2018 2017 2018				2017		
				(in millions, except f	or \$ pe	er barrel data)				
Refining margin	\$	313	\$	272	\$	824	\$	624		
Divided by: total throughput barrels		20		20		57		60		
Refining margin per total throughput barrel	\$	15.54	\$	13.81	\$	14.50	\$	10.32		

		ee Months En	ded S	eptember 30,	Nine Months Ended September 30				
(In millions, except for per throughput barrel data)		2018		2017		2018		2017	
Refining margin adjusted for FIFO impact	\$	310	\$	257	\$	779	\$	625	
Divided by: total throughput barrels		20		20		57		60	
Refining margin adjusted for FIFO impact per total throughput barrel	\$	15.41	\$	13.05	\$	13.71	\$	10.33	

(In millions, except for per throughput barrel data)		ee Months En	ded S	September 30,	Nine Months Ended September 30,				
(In millions, except for per throughput barrel data)		2018		2017		2018		2017	
Direct operating expenses (exclusive of depreciation and amortization)	\$	85	\$	120	\$	272	\$	308	
Major turnaround expenses		1		22		1		37	
Direct operating expenses (1)		84		98		271		271	
Divided by: total throughput barrels		20		20		57		60	
Direct operating expenses, excluding major turnaround expenses, per total throughput barrel	\$	4.17	\$	5.02	\$	4.77	\$	4.49	

⁽¹⁾ Direct operating expenses are shown exclusive of depreciation and amortization and major turnaround expenses.

A reconciliation of net income (loss) to EBITDA and EBITDA to Adjusted EBITDA for the Nitrogen Fertilizer segment for the three and nine months ended September 30, 2018 and 2017 is as follows:

		Three Months Ended September 30,				Nine Months Ended September 30,			
(In millions)	2018		2017		2018		2017		
Nitrogen Fertilizer:									
Nitrogen fertilizer net loss	\$	(13)	\$	(32)	\$	(48)	\$	(45)	
Add:									
Interest expense, net		16		16		47		47	
Depreciation and amortization		16		20		53		55	
Nitrogen Fertilizer EBITDA		19		4		52		57	
Add:									
Major turnaround expenses		_		2		6		2	
Insurance recovery - business interruption		_		(1)		_		(1)	
Adjusted Nitrogen Fertilizer EBITDA	\$	19	\$	5	\$	58	\$	58	