

# PETERS & CO. 2018 ENERGY CONFERENCE

Carrizo Oil & Gas September 11-13, 2018



# Forward Looking Statements / Note Regarding Reserves

This presentation contains statements concerning the Company's intentions, expectations, projections, assessments of risks, estimations, beliefs, plans or predictions for the future, objectives, goals, strategies, future events or performance and underlying assumptions and other statements that are not historical facts. These statements are "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. The forward-looking statements in this presentation include, but are not limited to, statements relating to the Company's business and financial outlook, cost and risk profile of oil and gas exploration and development activities, quality and risk profile of Company's assets, liquidity and the ability to finance exploration and development activities, including accessibility of borrowings under the Company's revolving credit facility, commodity price risk management activities and the impact of our average realized prices, growth strategies, ability to explore for and develop oil and gas resources successfully and economically, estimates and forecasts of the timing, number, profitability and other results of wells we expect to drill and other exploration activities, drilling inventory, downspacing, infill drilling and completion optimization results, estimates regarding timing and levels of production or reserves, estimated ultimate recovery, the Company's capital expenditure plan and allocation by area, cost reductions and savings, efficiency of capital, the price of oil and gas at which projects break-even, future market conditions in the oil and gas industry, ability to make, integrate and develop acquisitions and realize any expected benefits or effects of completed acquisitions, midstream arrangements and agreements, gas marketing strategy, lease terms, expected working or net revenue interests, the ability to adhere to our drilling schedule, acquisition of acreage, including number, timing and size of projects, planned evaluation of prospects, probability of prospec

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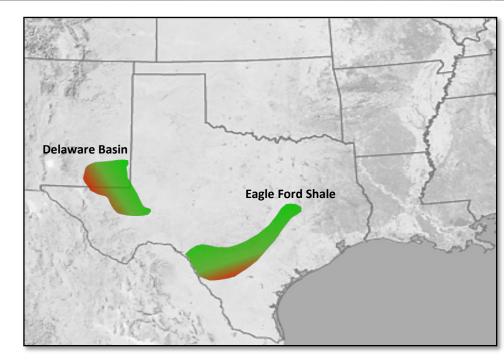
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# **Carrizo Overview**

- ~123,000 net acres across the Eagle Ford Shale and Delaware Basin
- Proximity and operational similarity of plays allows for shifting of capital and equipment relatively easily
- >2,100 net potential horizontal locations in inventory
- Poised to deliver prudent long-term production growth
- Rate-of-return-driven development program

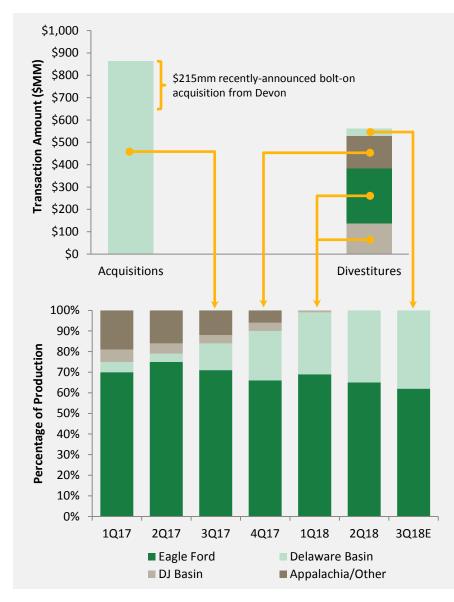


### **Key Statistics**

NASDAQ Symbol	CRZO
Shares Outstanding	93.4 MM
Market Capitalization	\$2.1 BN
Enterprise Value	\$3.8 BN
Q2'18 Production (MBoe/d)	57.1
YE 2017 Proved Reserves (MMBoe)	262

	Net Acreage Position	Net Undrilled Locations
Eagle Ford Shale	77,300	>700
Delaware Basin	46,000	>1,400

# **Successful Portfolio Transition** Focusing on Higher-margin Plays



### **Strategic Actions**

#### 3Q17

AUGUST / Acquired Delaware Basin assets from ExL

#### 4Q17

NOVEMBER / Divested Marcellus assets NOVEMBER / Divested Utica assets DECEMBER / Redeemed \$150 MM of 7.50% senior notes

#### 1Q18

JANUARY / Divested DJ Basin assets JANUARY / Redeemed \$50 MM of 8.875% preferred securities FEBRUARY / Divested downdip Eagle Ford assets FEBRUARY / Redeemed \$100 MM of 7.50% senior notes MARCH / Redeemed \$220 MM of 7.5% senior notes

#### 3Q18

JULY / Divested non-operated Delaware Basin assets

#### 4Q18

OCTOBER/ Expected closing of Delaware Basin bolt-on acquisition

~\$1.4 BN in A&D Activity since 2Q17

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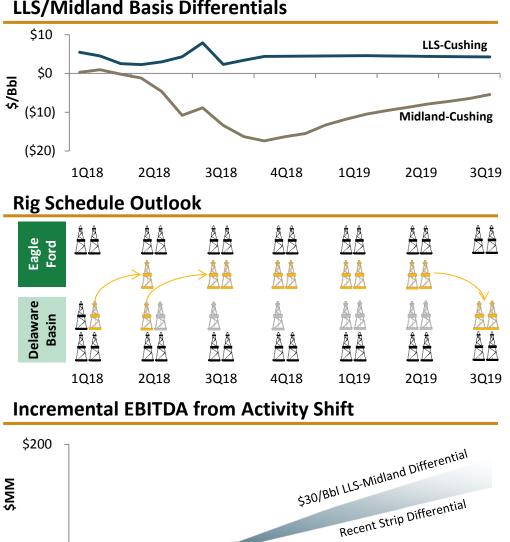
### **The Eagle Ford Pivot** Shifting Capital to the Eagle Ford Drives Enhanced Results

### **Plan Summary**

- Shift two of the four rigs that were originally planned to be drilling in the **Delaware Basin to the Eagle Ford Shale**
- Shift the rigs back to the Delaware Basin in 3Q19 based on the expected improvement in local crude oil prices

### **Expected Plan Benefits**

- **Enhances corporate ROCE by allocating** capital to the highest-return area
- Increases EBITDA by >\$100 million through year-end 2019 based on recent strip prices
- **Drives accelerated leverage reduction**



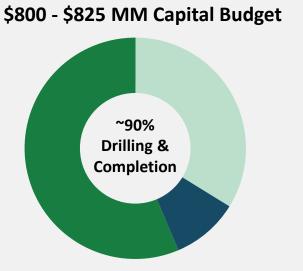
4Q19

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### LLS/Midland Basis Differentials

#### Note: strip prices as of 7/31/18. 5

### **2018 Development Plan** *Synergistic Development of High-quality Assets*



■ Eagle Ford D&C ■ Delaware Basin D&C ■ Pipeline & Infra.

Area	2018 Pro Forma Production Growth <sup>1</sup>	2018 Free Cash Flow <sup>2</sup> (Millions)
<b>Delaware Basin:</b> Longer-term Growth Engine	>100%	~(\$100)
<b>Eagle Ford:</b> High Return / FCF Positive	5-10%	~\$140

### **2H18** Program Highlights

- Focus on high-return oily plays
- 4-rig development program in the Eagle Ford Shale
- 2-rig development program in the Delaware Basin
- 2-3 completion crews
- Results in strong year-over-year production growth in 2018
- Positions Eagle Ford Shale to be the primary driver of 2019 production growth

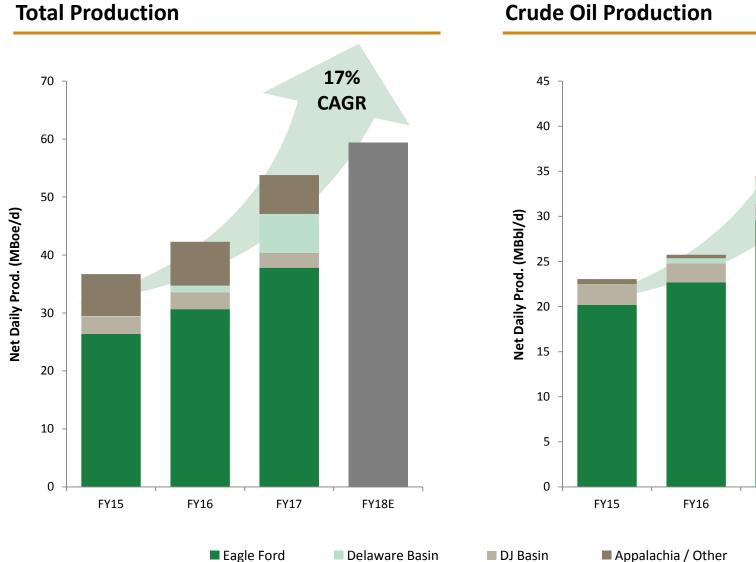
	Actual	Pro Forma
2018 Total Production Growth	10%	>30%
2018 Crude Oil Production Growth	14%	>20%

<sup>1</sup>Production growth pro forma for A&D activity.

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 $^{2}$ Free cash flow calculated at the field level at strip prices as of 7/31/18.

# **Strong Track Record of Growth**



**Crude Oil Production** 

7

**CRZO** 

FY18E

19%

CAGR

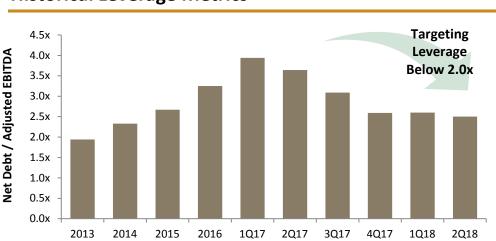
FY17

# **Positioned for Future Execution**



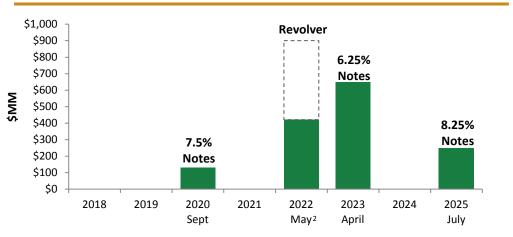
# **Strong Liquidity Position**

### No Near-term Maturities and Ample Flexibility on the Revolver



### Historical Leverage Metrics<sup>1</sup>

### **Debt Maturities**



#### Revolving Credit Facility

- \$900 million borrowing base commitment with interest rate of LIBOR + 1.5%-2.5%
- Consortium of 20 banks led by Wells Fargo
- Restrictive covenants
  - Total Net Debt < 4.0x Adj. EBITDA

#### 7.50% Senior Unsecured Notes (due 2020)

- \$130 million outstanding
- Currently callable
- No liquidity or performance-based covenants

#### 6.25% Senior Unsecured Notes (due 2023)

- \$650 million outstanding
- Currently callable
- No liquidity or performance-based covenants

#### 8.25% Senior Unsecured Notes (due 2025)

- \$250 million outstanding
- Callable on July 15, 2020
- No liquidity or performance-based covenants

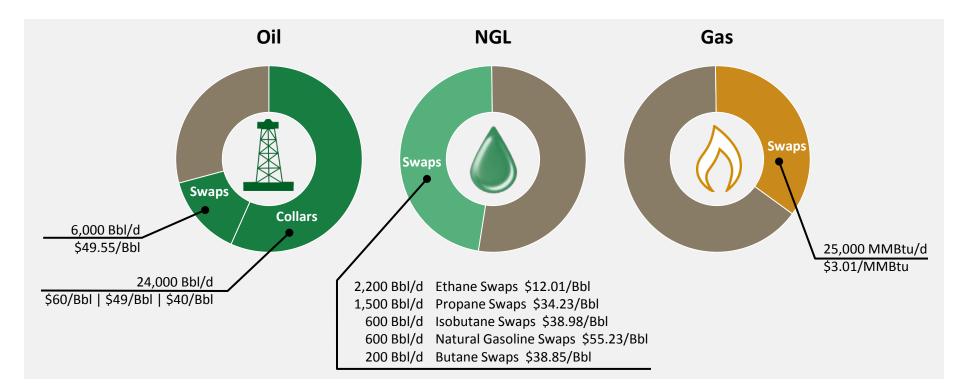
#### Corporate Credit Rating

B1 (Positive) / B+

#### <sup>1</sup>As calculated by bank covenant.

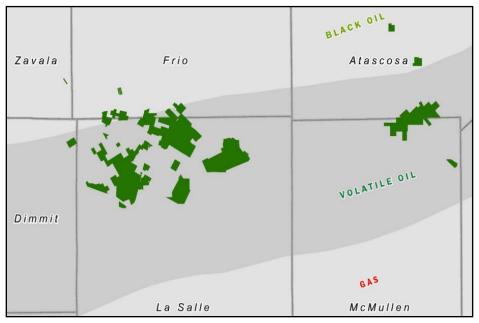
<sup>2</sup>Balance as of 6/30/18. Subject to springing maturity date of June 2020 if 7.5% Notes have not been refinanced prior to such time.

# **2H'18 Hedging Program Overview** Disciplined Strategy Protects Operating Margins

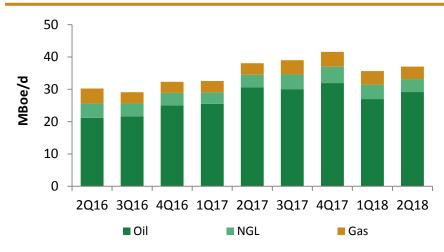


- Basis swaps provide additional protection against regional price movements
  - 6,000 Bbl/d locking in a \$0.10/Bbl Mid-Cush differential for 2H18
  - 18,000 Bbl/d locking in a \$5.11/Bbl LLS-Cush premium for 2H18

# **Eagle Ford Shale** *High-return, Free-cash-flow-positive Core Position*



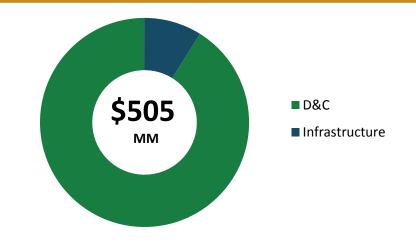
### **Historical Production**



#### **Overview**

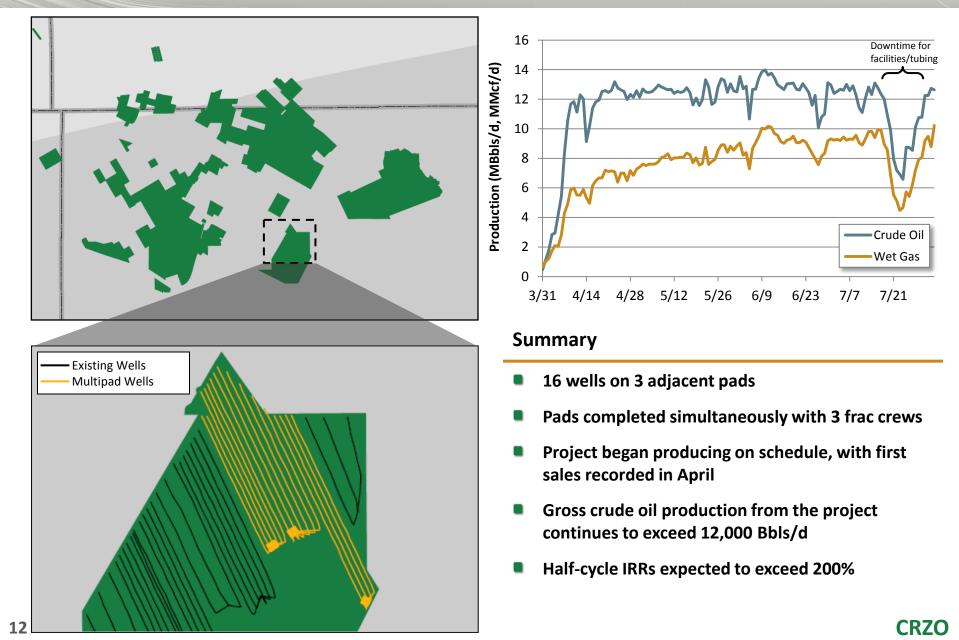
- Acreage almost entirely in the volatile oil window
- Crude oil receives premium LLS-based pricing, contributing to strong returns
- Ample oil and gas takeaway capacity
- 2018 Program
  - Drill 95-100 gross / 90-95 net wells
  - Complete 85-90 gross / 75-80 net wells
  - Expected to generate pro-forma production growth and free cash flow

### 2018 Capital Program



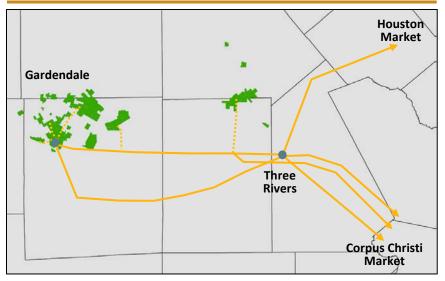
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### **Eagle Ford Shale** Strong Performance from Brown Trust Multipad

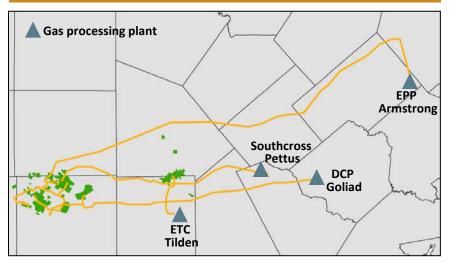


# Eagle Ford Shale Midstream Ample Takeaway Capacity

### Crude Oil



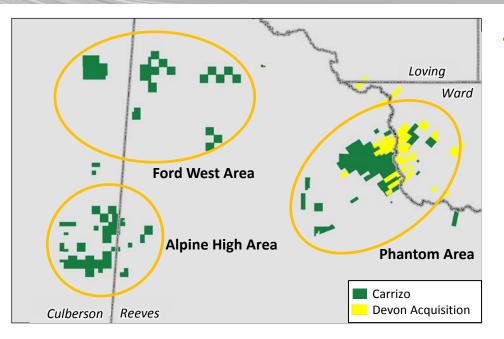
### **Natural Gas**



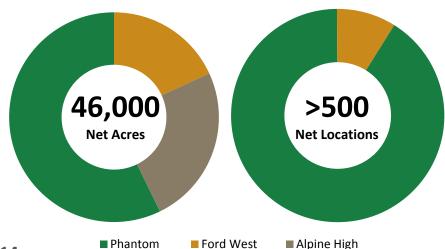
### Significant Infrastructure and Optionality

- Company-owned in-field and third-party gathering move ~70% of oil on pipelines; projects in-progress to increase to >90%
- Extensive oil and natural gas export infrastructure available across entire basin
- Significant unused capacity available for both oil and natural gas
- Close proximity to key markets minimizes transportation costs and maximizes margins
- No MVC's for either oil or natural gas
- Natural gas sold at plant tailgates and delivered to HSC markets or sold into HSC markets

### **Delaware Basin** *High-return, Stacked-pay Potential*

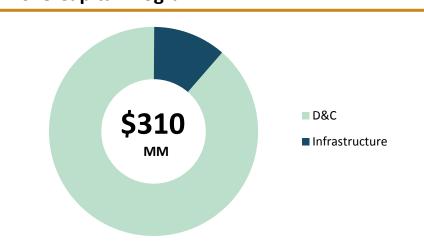


### Area Distribution (Pro-Forma for Devon Acq.)



#### **Overview**

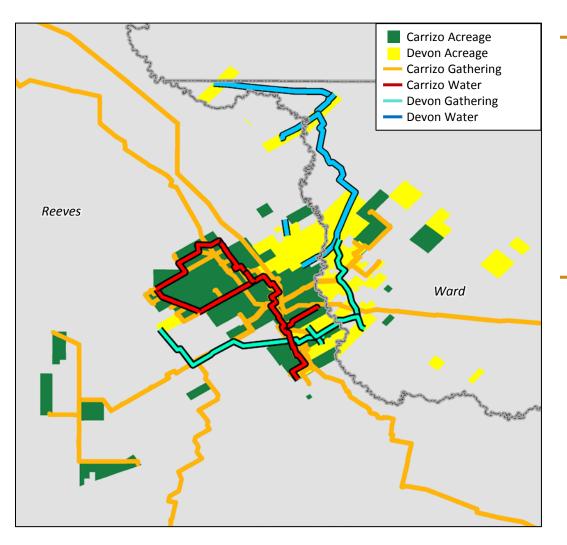
- Blocky acreage position that supports efficient long-lateral development
- Potential to provide decades of drilling inventory
- Infrastructure in place to support future growth
- 2018 Program
  - Drill 28-32 gross / 22-26 net wells
  - Complete 23-27 gross / 18-22 net wells
  - Expected to generate pro forma production growth of >100%



### 2018 Capital Program

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# **Delaware Basin Bolt-on Acquisition** Excellent Fit with Existing Phantom Position



### **Acquisition Highlights**

- \$215 MM purchase price
- ~9,600 net acres
- Net production of ~2,500 Boe/d (60% oil)
- >90% of acreage is operated
- Low average royalty of ~20%
- Includes 2 operated SWD wells and associated infrastructure
- Expected to close in 4Q18

### **Benefits and Rationale**

- Adds >100 net de-risked locations in the Wolfcamp A and B, with significant upside potential from delineating entire position and testing additional zones
- Acreage is adjacent to Carrizo's existing Phantom position, offering the potential for material efficiencies
- Expands water disposal capacity by 31,000 Bwpd, with opportunity to add another 10,000 Bwpd by converting an existing well

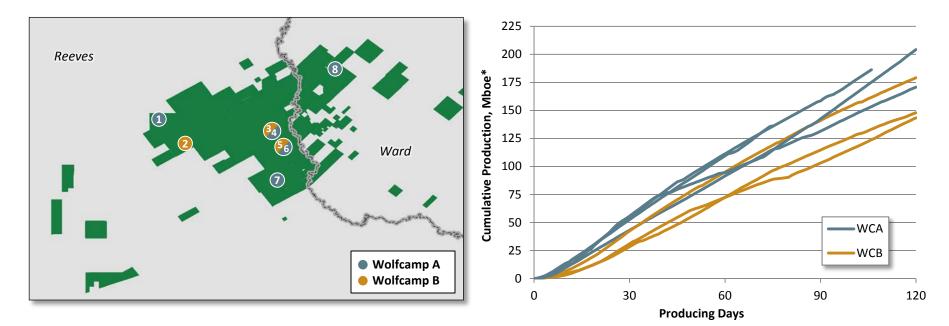
### **Delaware Basin** High-quality Stacked Pay with Large Inventory Upside

- Up to 10 potential targets across a 3,800' section from the Avalon through the Wolfcamp D
- 4 of 6 target Wolfcamp horizons have been successfully tested with horizontal drilling
- Offset production has been established in the 3rd Bone Spring, Wolfcamp X/Y, and Wolfcamp C
- More than 400 net potential derisked locations identified across the Wolfcamp A and B zones with the most well control
- Significant inventory expansion potential from additional zones and future downspacing

		(	Gross Section Thickness (ft.)	Net Derisked Drilling Locations <sup>1</sup>
Av	valon	$\bigstar$	650 - 750	
1st	Bone Spring	$\bigstar$	350 - 450	
2nd	Bone Spring	$\bigstar$	600 - 700	>400 Unrisked
3rd	Bone Spring	☆	550 - 600	
We	olfcamp X/Y	$\bigstar$	70 - 120	
we cocce co	olfcamp A	★	200 - 225	
	oper olfcamp B	*	190 - 230	>500
THE THE NEW WITH STREET STREET STREET	wer olfcamp B	★	200 - 260	>1,000 Unrisked
W	olfcamp C	$\bigstar$	150 - 170	
We	olfcamp D	<b>★☆</b>	225 - 300	
	*	r Produ	ucing Horizon	
*Formations not drawn to scale. <sup>1</sup> Pro forma for Devon acquisition.	\$	(Upsic	le Horizon	

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### **Delaware Basin** Strong Results from Wolfcamp A and B



#	Well Name	Zone	Lateral Length (ft.)	30-Day Rate* (Boe/d)	60-Day Rate* (Boe/d)	90-Day Rate* (Boe/d)
1	Christian 2 1T	WCA	7,287	1,646 (50% oil)	1,625 (49% oil)	1,510 (49% oil)
2	Griffin State Unit 1922 10H	WCB	9,752	1,929 (60% oil)	1,754 (59% oil)	1,644 (58% oil)
3	Woodson A36 1	WCB	9,968	1,603 (57% oil)	1,477 (58% oil)	1,380 (57% oil)
4	Woodson 36 Alloc. A 11H	WCA	9,789	2,146 (55% oil)	1,932 (56% oil)	1,798 (55% oil)
5	Dorothy Unit 38 #1	WCB	8,640	1,595 (62% oil)	1,344 (62% oil)	1,287 (61% oil)
6	Dorothy Unit 38 11H	WCA	11,045	1,969 (57% oil)	1,907 (56% oil)	
7	Zeman-State A 4042 10H	WCA	7,654	2,201 (55% oil)	1,617 (55% oil)	1,652 (54% oil)
8	SRO 551 Alloc. A 100H	WCA	7,400	2,118 (47% oil) <sup>1</sup>		

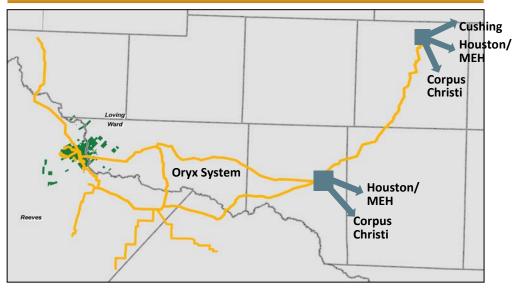
\*Two-stream production

<sup>1</sup> Recent 24-hour rate

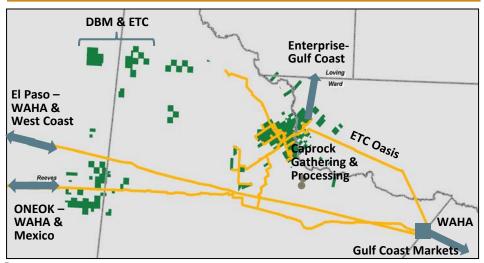
**17** Note: Map is pro forma for Devon acquisition

### **Delaware Basin Midstream** *Ensuring Certainty of Flow*

### Crude Oil



### **Natural Gas**



### Significant Infrastructure and Optionality

### Crude Oil

- Oryx system has 200 MBbl/d capacity with plans to double by late 2019
- Current 13.5 MBbl/d capacity on Oryx system expands to 25 MBbl/d in 4Q18
- First right of refusal on any unused or newly-added capacity on Oryx
- Recently executed firm sales contract with a large purchaser covering 100% of crude oil production through July 2020 with no minimum volume commitments

### Natural Gas

- Gathering agreement with Caprock; system has 140 MMcf/d capacity with additional 200 MMcf/d in 2H18
- Interconnects with ONEOK, El Paso, ETC, and Enterprise main lines allow access to Gulf Coast, West Coast, and Mexico
- Firm capacity of 35-45 MMcf/d on ONEOK through March 2020 and 25 MMcf/d on El Paso from November 2018 through October 2019

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Ford West gas capacity on DBM and ETC

# **Investment Highlights**

Premier Acreage Positions	~123,000 net acres across the Eagle Ford Shale and Delaware Basin, two of the highest-return plays in North America
Top Tier Operator	Track record of delivering EURs that rank among the best in our core areas as well as operating costs and margins that consistently outperform peers
Significant	Deep inventory of locations that generate strong
Growth	returns allows for prudent, economical production
Potential	growth
Solid	Significant liquidity under the revolver combined
Financial	with a strong hedge book should allow Carrizo to
Position	execute on its multi-year development plan
Experienced	Management team has extensive experience
Management	drilling horizontal shale wells, having drilled
Team	>1,000 wells since the early 2000's





# **Guidance Summary**

	Actual			Guid	ance	
	3Q 2017	4Q 2017	1Q 2018	2Q 2018	3Q 2018	FY 2018
Production Volumes:						
Total (Boe/d)	55,224	62,417	51,257	57,077	62,000 - 63,000	58,700 - 60,100
Crude Oil %	63%	64%	67%	66%	65%	65% - 67%
NGLs %	12%	15%	16%	16%	17%	16% - 17%
Natural Gas %	25%	21%	17%	18%	18%	17% - 19%
Unhedged Price Realizations:						
Crude Oil (% of NYMEX oil)	98.3%	102.6%	100.9%	98.2%	95.0% - 97.0%	N/A
NGLs (% of NYMEX oil)	41.5%	42.2%	36.4%	36.7%	38.0% - 40.0%	N/A
Natural Gas (% of NYMEX gas)	75.9%	80.4%	98.3%	84.8%	80.0% - 82.0%	N/A
Cash (Paid) Received for Derivative Settlements, net (\$MM)	\$6.5	\$0.6	(\$14.4)	(\$24.1)	(\$28.5) - (\$24.5)	N/A
Costs and Expenses:						
Lease Operating (\$/Boe)	\$6.86	\$6.81	\$8.51	\$6.77	\$6.75 - \$7.25	\$7.15 - \$7.50
Production Taxes (% of Total Revenues)	4.27%	4.63%	4.69%	4.73%	4.75% - 5.00%	4.70% - 4.90%
Ad Valorem Taxes (% of Total Revenue)	0.96%	0.60%	0.88%	1.38%	1.25% - 1.75%	1.10% - 1.50%
Cash G&A (\$MM)	\$10.5	\$10.7	\$22.7	\$9.7	\$10.0 - \$10.5	\$52.5 - \$53.5
DD&A (\$/Boe)	\$13.30	\$14.21	\$13.98	\$13.94	\$13.75 - \$14.75	\$13.75 - \$14.50
nterest Expense, net (\$MM)	\$20.7	\$18.5	\$15.5	\$15.6	\$15.8 - \$16.8	N/A

Period	Type of Contract	Daily Volume (Bbl/d)	Floor Price (\$/Bbl)	Ceiling Price (\$/Bbl)	Sub-floor Price (\$/Bbl)
Q3 2018					
	Swaps	6,000	\$49.55		
	3-Way Collars	24,000	\$49.06	\$60.14	\$39.38
Q4 2018					
	Swaps	6,000	\$49.55		
	3-Way Collars	24,000	\$49.06	\$60.14	\$39.38
FY 2019					
	3-Way Collars	15,000	\$49.72	\$62.48	\$41.00

Note: Crude oil hedge position includes sold call options in 2018-2020. Volumes sold and weighted average ceiling prices are as follow: 3,388 Bbls/d at ~\$71/Bbl in FY 2018, 3,875 Bbls/d at ~\$74/Bbl in FY 2019, 4,575 Bbls/d at ~\$76/Bbl in FY 2020. Total hedging premium payments are as follow: \$5.2 MM for Q3-Q4 FY 2018, \$9.0 MM for FY 2019, \$3.9 MM for FY2020.

### Hedge Position Detail Crude Oil Basis Swaps

Period	Type of Contract	Daily Volume (Bbl/d)	Differential \$/Bbl
Q3 2018			
	LLS-WTI	18,000	\$5.11
	Midland-WTI	6,000	(\$0.10)
Q4 2018			
	LLS-WTI	18,000	\$5.11
	Midland-WTI	6,000	(\$0.10)
Q1 2019			
	LLS-WTI	3,000	\$4.57
	Midland-WTI	5,500	(\$5.24)
Q2 2019			
	LLS-WTI	3,000	\$4.57
	Midland-WTI	6,000	(\$5.38)
Q3 2019			
	LLS-WTI	3,000	\$4.57
	Midland-WTI	7,000	(\$5.56)
Q4 2019			
	LLS-WTI	3,000	\$4.57
	Midland-WTI	11,000	(\$3.84)
FY 2020			
	Midland-WTI	12,750	(\$1.28)

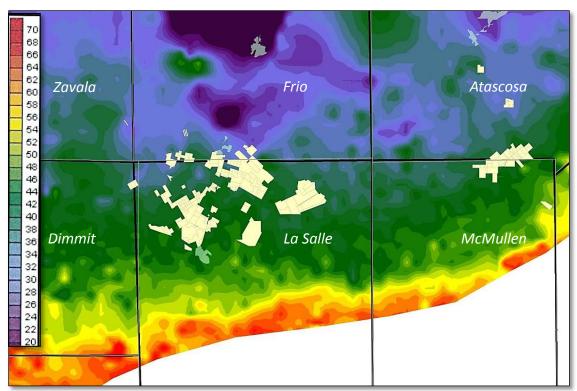
### Hedge Position Detail Natural Gas Liquids

Period	Product Stream	Type of Contract	Daily Volume (Bbl/d)	Weighted Average Price (\$/Bbl)
Q3 2018				
	Ethane	Swaps	2,200	\$12.01
	Propane	Swaps	1,500	\$34.23
	Butane	Swaps	200	\$38.85
	Isobutane	Swaps	600	\$38.98
	Natural Gasoline	Swaps	600	\$55.23
Q4 2018				
	Ethane	Swaps	2,200	\$12.01
	Propane	Swaps	1,500	\$34.23
	Butane	Swaps	200	\$38.85
	Isobutane	Swaps	600	\$38.98
	Natural Gasoline	Swaps	600	\$55.23

Period	Type of Contract	Daily Volume (MMBtu/d)	Floor Price \$/MMBtu	Ceiling Price \$/MMBtu	Sub-floor Price \$/MMBtu
Q3 2018					
	Swaps	25,000	\$3.01		
Q4 2018					
	Swaps	25,000	\$3.01		

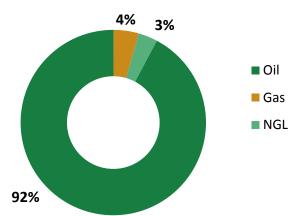
Note: Carrizo also sold 33,000 MMBtu/d of call options on natural gas in 2018-2020. The weighted average ceiling price for these call options each year are as follows: \$3.25/MMBtu in FY 2018, \$3.25/MMBtu in FY 2019, \$3.50/MMBtu in FY 2020.

# Eagle Ford Shale API Gravity

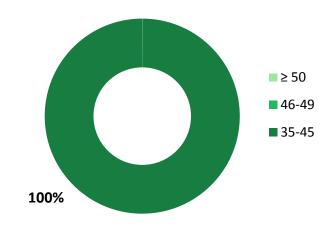


Source: DrillingInfo initial completion reports.





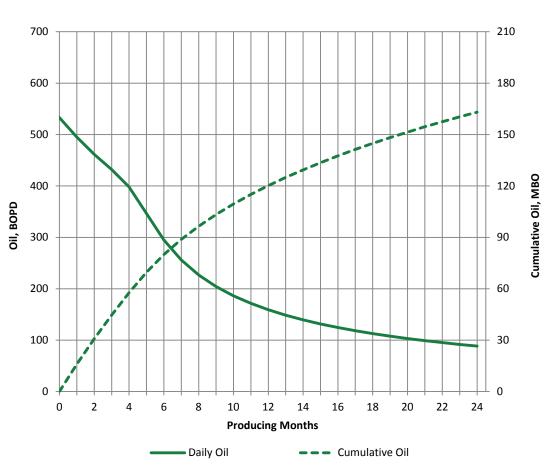
#### 2Q18 Volumes by API Gravity



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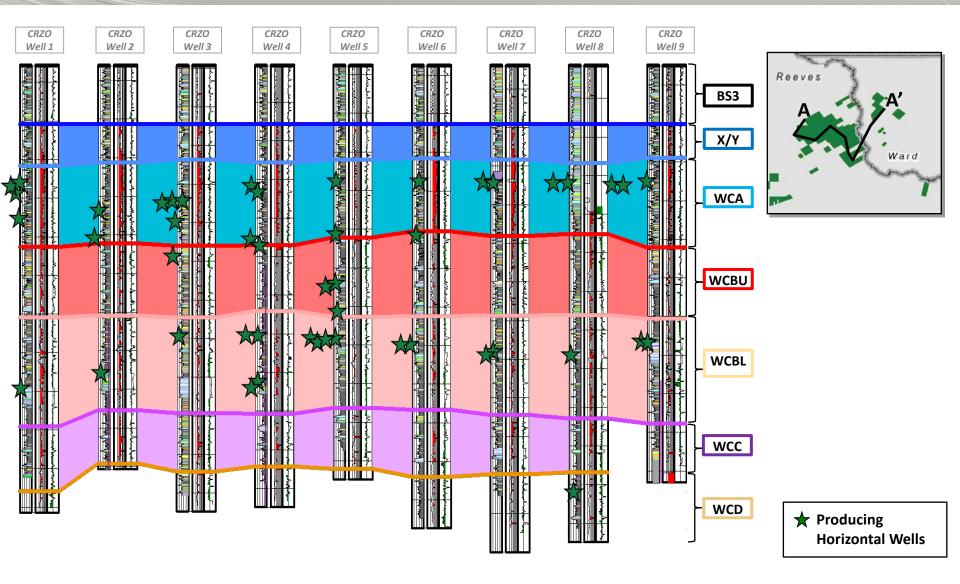
# Eagle Ford Shale Well Economics Summary

Type Curve			Core	
Total Well Cost			\$4.5 MM	
Frac Stages			33	
Lateral Length		6,600 ft.		
		Gross	502 Mboe	
EUR	Oil Only		382 Mbo	
	Net		376 Mboe	
F&D Cost			\$11.90 / Boe	
IRR & NPV <sup>(1)</sup>	\$60 Oil	IRR	>100%	
		NPV	\$5.0 MM	
	\$55 Oil	IRR	79%	
		NPV	\$4.1 MM	
	\$50 Oil	IRR	58%	
\$50 01		NPV	\$3.2 MM	
NYMEX NPV10 Breakeven		\$32.00		



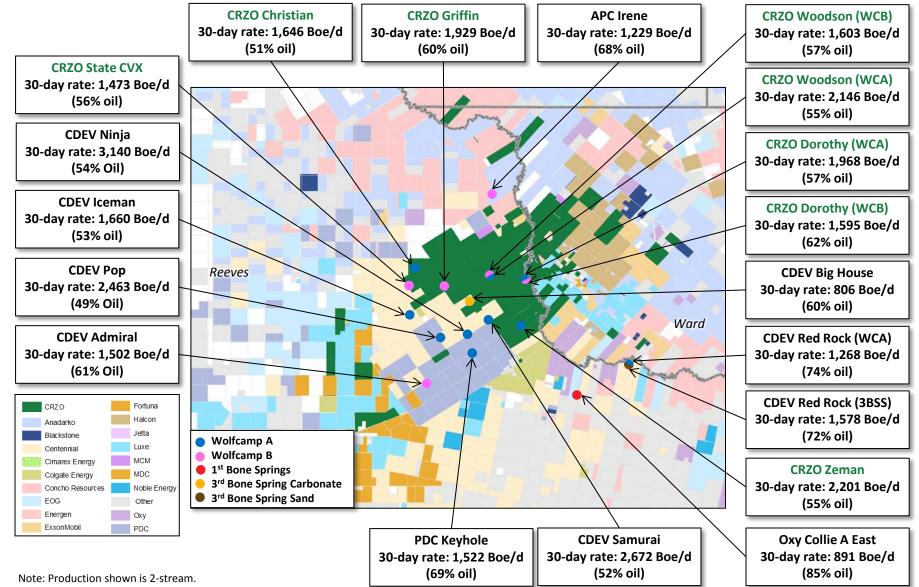
- Economics based on NYMEX prices and include ~\$1.00/Bbl deduct for oil, \$3.00/Mcf NYMEX gas price, NGL pricing 35% of NYMEX oil price.
- (2) Total well cost includes ~\$200K for allocated infrastructure.

# **Delaware Basin** Successful Wells in Multiple Wolfcamp Horizons



### **Delaware Basin - Phantom Area**

Location, Location, Location

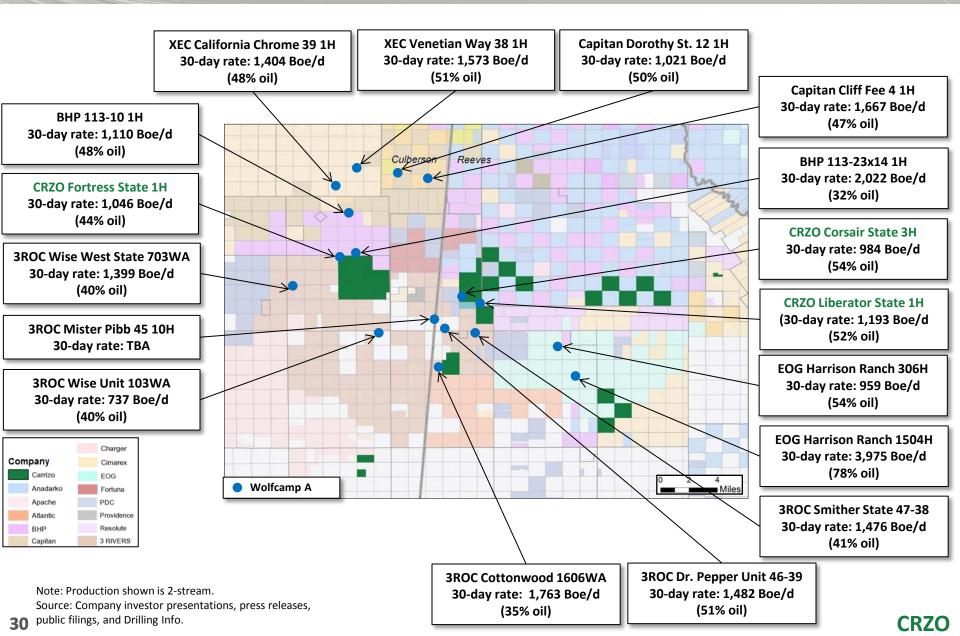


Map shown is pro forma for Devon acquisition.

29 Source: Company investor presentations, press releases, public filings, and Drilling Info.

### **Delaware Basin – Ford West Area**

Strong Well Results Along the Culberson/Reeves Border

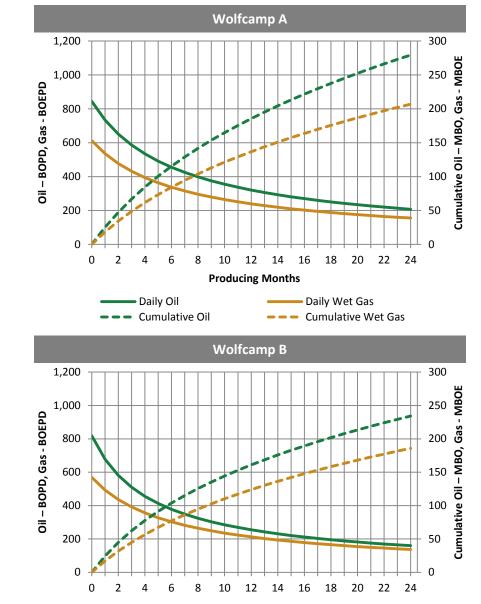


### **Delaware Basin – Phantom Area** Well Economics Summary

Туре С	urve		Wolfcamp A	Wolfcamp B
Total Well Cost		\$9.5 MM	\$9.5 MM	
Frac St	Frac Stages		42	42
Lateral	Length		7,000 ft.	7,000 ft.
		Gross	1,648 Mboe	1,461 Mboe
EUR	Oil Only		833 Mbo	649 Mbo
	Net		1,236 Mboe	1,096 Mboe
F&D Co	ost		\$7.65 / Boe	\$8.62 / Boe
	\$60 Oil	IRR	93%	62%
		NPV	\$13.4 MM	\$9.2MM
IRR & NPV <sup>(1)</sup>	\$55 Oil	IRR	75%	49%
		NPV	\$11.4 MM	\$7.6 MM
	\$50 Oil	IRR	59%	38%
	350 Oli	NPV	\$9.4 MM	\$5.9 MM
NYMEX NPV10 Breakeven		\$26.50	\$31.50	

 Economics are three stream and based on NYMEX prices and include \$3.00/Mcf gas price, \$2.00/Bbl deduct for oil, \$0.50/Mcf deduct for gas, NGL pricing 35% of oil price.

(2) Total well cost includes ~\$450K for allocated infrastructure.



**Producing Months** 

**CRZO** 

# **Delaware Basin – Liberator Area**

Well Economics Summary

Type Curve			Wolfcamp A
Total Well Cost			\$9.1 MM
Frac Stages			42
Lateral Length			7,000 ft.
		Gross	1,684 Mboe
EUR		Oil Only	701 Mbo
		Net	1,263 Mboe
F&D Cost			\$7.21 / Boe
	\$60 Oil	IRR	52%
		NPV10	\$8.9 MM
	\$55 Oil	IRR	42%
& NPV <sup>(1)</sup>		NPV10	\$7.2 MM
	\$50 Oil	IRR	33%
		NPV10	\$5.5 MM
NYMEX NPV10 Breakeven			\$36.50

 Economics based on NYMEX prices and include \$3.00/Mcf gas price, \$2.00/Bbl deduct for oil, \$0.50/Mcf deduct for gas, NGL pricing 35% of oil price.

(2) Total well cost includes ~\$450K for allocated infrastructure.

