# Results Driven. Manufacturing Focused.





# **Corporate Presentation**

February 2018



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"Risk Factors." in Sanchez Energy's Annual Report on Form 10-K for the fiscal year ended December 31, 2016 and any updates to those factors set forth in its subsequent Quarterly Reports on Form 10-Q or Current Reports on Form 8-K.

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Non-GAAP Measures Included in this presentation are certain non-GAAP financial measures as defined under SEC Regulation G. Investors are urged to consider closely the disclosure in Sanchez Energy's Annual Report on Form 10-K for the fiscal year ended December 31, 2016, Quarterly Reports on Form 10-Q and Current Reports on Form 8-K and any reconciliation to GAAP measures provided in this presentation.

# Sanchez Energy Premier Eagle Ford Shale Operator





- ◆ Premier
  Low Cost Operator in the Eagle Ford Shale
- ◆ **Leader**In Multi-Zone Eagle Ford Development
- Contiguous Acreage Position
   With 15+ Year Drilling Inventory
- Capital Efficiency
   Through "Manufacturing" Process
- ◆ Sustainable Business Model Through Internal Funding of Capital Needs

# **Sanchez Energy Overview**





	4Q17 Production (Boe/d)	~82,000
Asset	YE 2017 Proved Reserves (MMBoe)	363
Profile	Eagle Ford Acreage Position (gross)	487,000
	Eagle Ford Acreage Position (net)	285,000

#### **Dominant Eagle Ford Acreage Position**

 Approximately 285,000 net acres with over 1 billion Boe of resource potential

#### **Developing Multiple Benches in Western Eagle Ford**

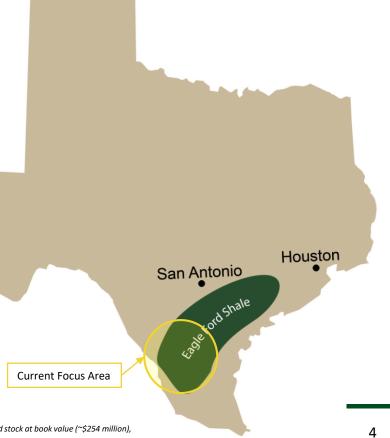
Lower, Middle and Upper Eagle Ford Shale with upside in Austin Chalk and Pearsall Shale

#### **Committed to Financial Discipline**

- Prioritizing returns on invested capital
- Focused on generating free cash flow

#### **Balanced Commodity Exposure**

 4Q 2017 Production was 34% oil, 34% natural gas liquids, and 32% natural gas



Based on a closing stock price of \$5.43 as of 1/22/18 and 84.1 million shares outstanding. Enterprise value includes SN's convertible preferred stock at book value (~\$254 million), UnSub's non-convertible preferred stock of ~\$500 million, less ~\$175 million of cash.

# Sanchez Energy's Three-Year Plan





# **Focus** on Financial Discipline

- Deliver peer-leading returns on invested capital
- Fund capital spending with internally-generated cash flow



High Grade
Asset Base

- Divest assets that do not compete for capital
- Increase multi-zone development



**Expand**Operating Margins

- Increase production to over 100,000 Boe/d
- Reduce operating costs through asset synergies



**Improve**Balance Sheet

- Target long-term deleveraging as a top priority
- Maintain strong liquidity position and continue active hedge program

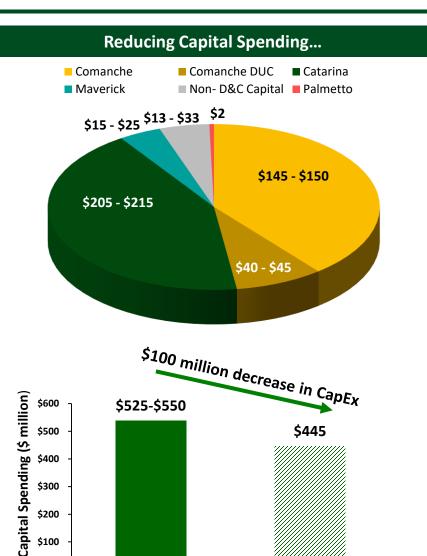


Continue to Innovate

- Delineate multi-zone potential throughout acreage position
- Maintain entrepreneurial culture that fosters innovation
- Use data analytics and technology to drive efficiencies

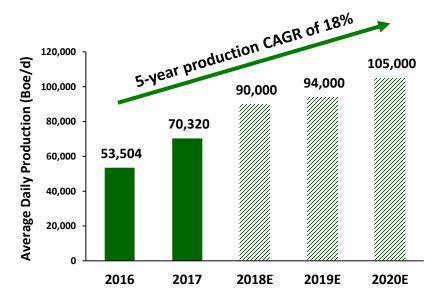
#### **Efficient Production Growth**





#### ...While Delivering Strong Production Growth

- Capital budget focused on low-risk development
- Reduced y/y capital spending by ~\$100 million
- Targeting ~30% production growth in 2018
- Expect to reach >100,000 Boe/d in 2020



Note: Production growth guidance for years 2018-2020 assumes capital spending of approximately \$445 million per year.

2018E

\$400

\$300

\$200

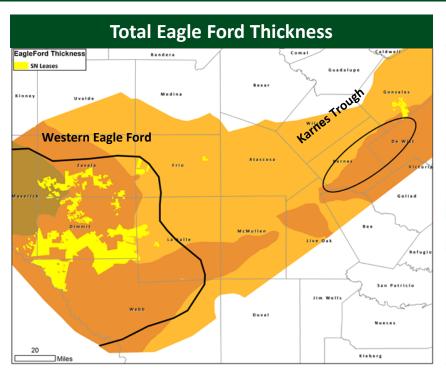
\$100

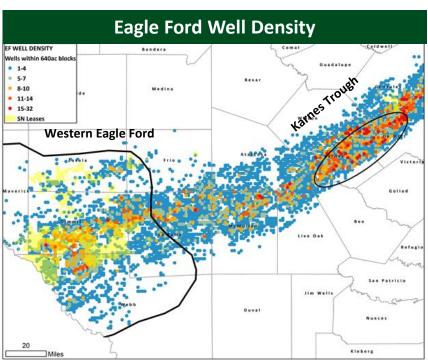
\$0

2017

# **Western Eagle Ford Focus**







#### Multi-Bench Development Across Western Eagle Ford

\* Lower, Middle and Upper Eagle Ford Shale with upside in Austin Chalk and Pearsall Shale

#### • Western Eagle Ford Has a Lower Well Density Than the Rest of the Eagle Ford

- Drilling primarily on ~70 acre spacing in Western Eagle Ford
- Presence of large contiguous ranches facilitates efficient development and allows for longer laterals

#### Western Eagle Ford Rig Count

Approximately 45% of all Eagle Ford rig activity is in the Western Eagle Ford (1)

# **High Quality, Concentrated Acreage Position**



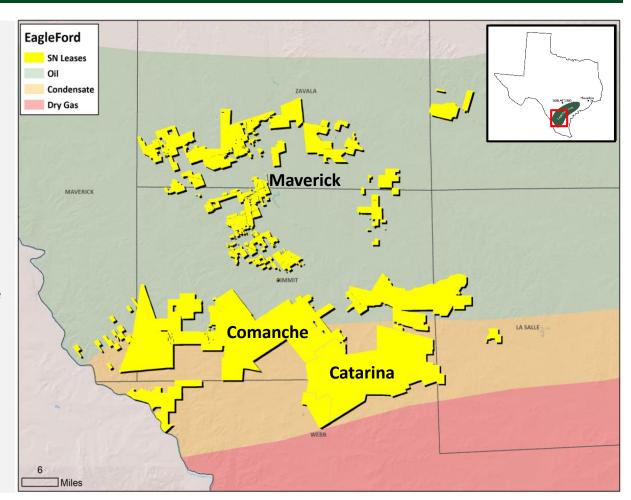
#### Strategic Acreage Position Located Within ~50 Mile Radius in the Western Eagle Ford

#### ◆ ~285,000 Net Acres

 ~500,000 net effective acres due to multiple zones

#### Concentrated Acreage

- Acreage position is within a 50-mile radius
- Up to 4 Target Intervals in the Eagle Ford Shale
  - Upside in Austin Chalk and Pearsall Shale formations
- 1+ Billion Boe of Resource Potential
- 15+ Year Drilling Inventory

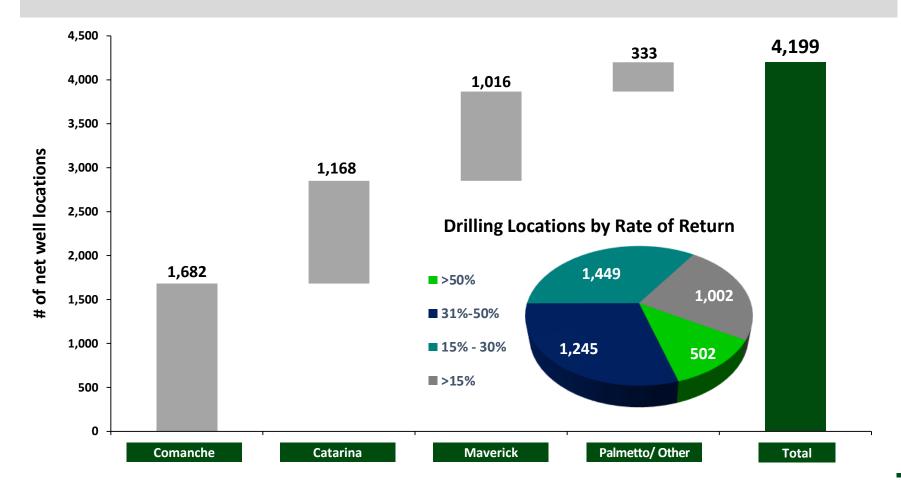


# High Return, Repeatable Drilling Inventory



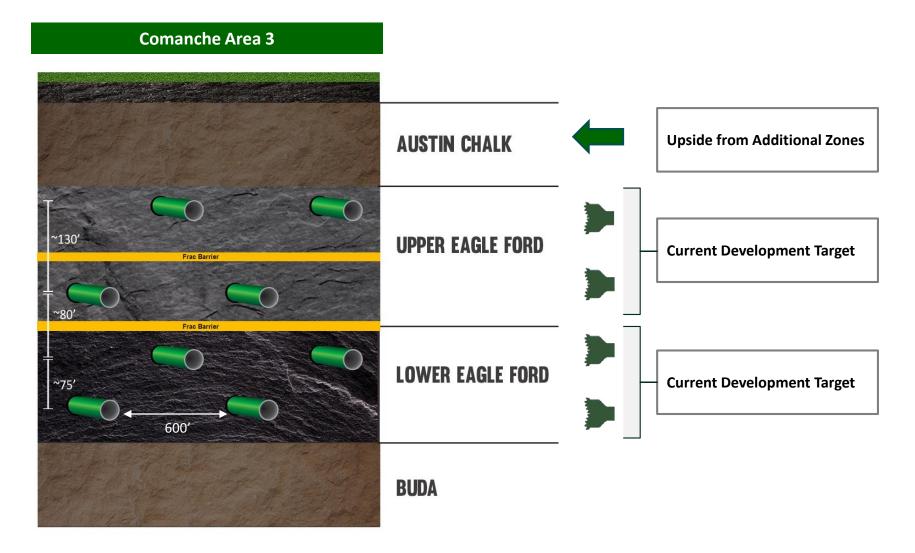
#### **Inventory of Over 4,000 Net Drilling Locations**

- Over 40% of the Company's drilling inventory generates 30%+ returns at \$55/Bbl and \$3/MMBtu
- ◆ 65% of 2018 development plan targets Tier 1 locations with expected IRRs of 50%+



# Western Eagle Ford Multi-Bench Development





# **Positive Impact of Longer Laterals**



#### **Impact of Longer Lateral Design on Well Results**



**2016** Avg. lateral length of  $^{\sim}6,000$  ft.



2017 Avg. lateral length of ~6,200 ft.



2018E Avg. lateral length of ~7,700 ft.

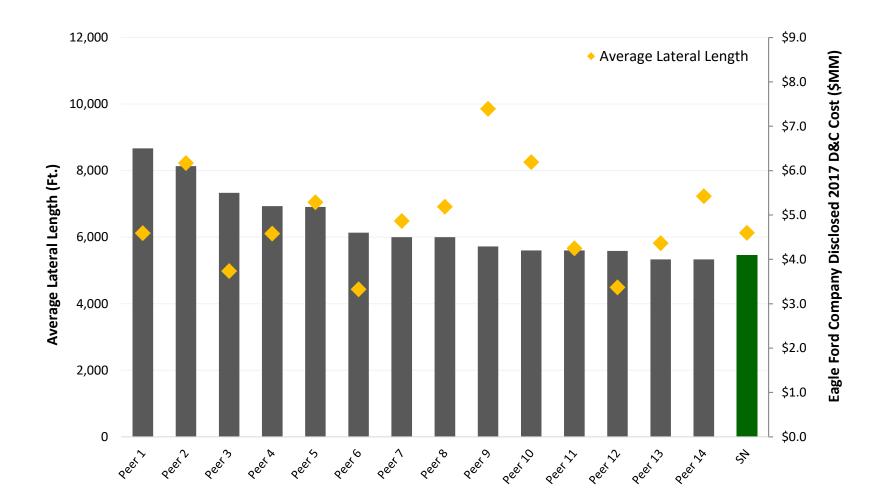
6,000 foot lateral Economics		
Well Costs (\$MM)	\$3.7	
3 Stream EUR (MBoe)	749	
NPV (\$MM) \$2.75		



8,000 foot lateral Economics		
Well Costs (\$MM)	\$4.6	
3 Stream EUR (MBoe)	936	
NPV (\$MM)	\$3.46	

# **Cost Structure Compared to Eagle Ford Peers**



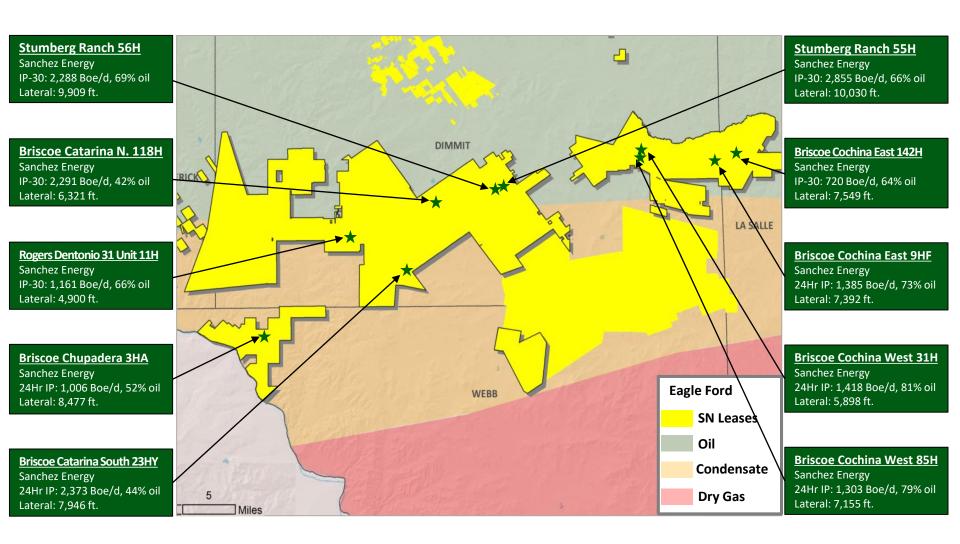


<sup>\*</sup> Source: RS Energy Group.

<sup>\*\*</sup> Peers include: CHK, COG, CRZO, DVN, ECA, EOG, EPE, Lonestar, MRO, MUR, NBL, PVAC, SBOW, SM

### **Comanche Well Results to Date**



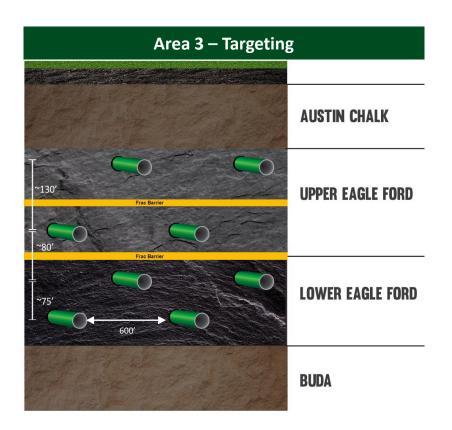


### **Comanche: Area 3 Overview**



#### 2018 Activity In Area 3

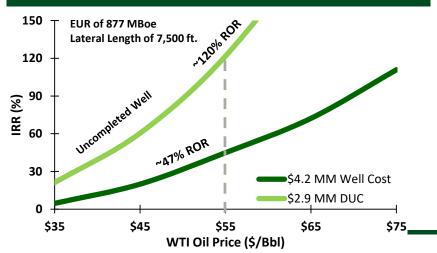
- Net D&C Capital ~\$122MM
- Drilling of 101 Gross Development Wells
- Completions of 58 Gross DUCs
- Completions of 66 Gross Development Wells



COMANCHE AREA 3 TYPE CURVE				
	IP (Bbl/d)	588		
Oii	Initial Decline (%)	77.6%		
	Oil EUR (MBbl)	357		
	IP (Mcf/d)	2,810		
Gas	Initial Decline (%)	73.0%		
	Gas EUR (MMcf)	1,545		
NGL	NGL Yield (Bbl/MMcf)	129		
N	NGL EUR (MBbl)	262		
3 Stream EUR (MBoe)		877		
% Oil		41%		
Well Cost (\$M)		\$4,200		
NPV10 (\$M)*		\$3,140		
IRR (%)*		47%		
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<sup>\*</sup>Price Deck: \$55/BBL, \$3.00/MCF, \$22.00/NGL, Lateral Length Based on 7,500 ft.

#### **Area 3 – Drilling Economics**

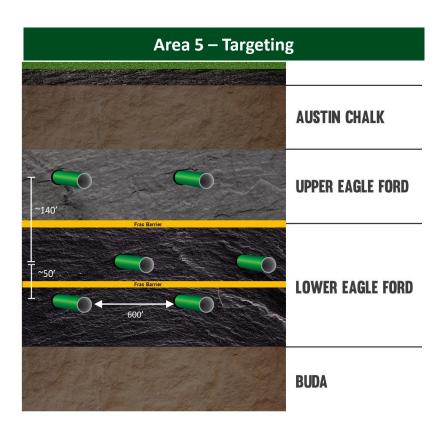


### **Comanche: Area 5 Overview**



#### 2018 Activity In Area 5

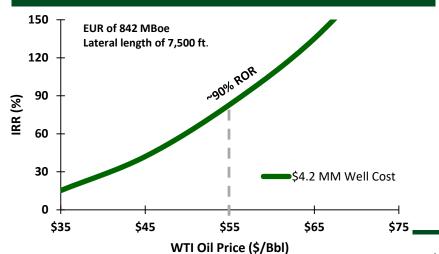
- Net D&C Capital ~\$45MM
- Drilling of 35 Gross Development Wells
- Completions of 15 Gross DUCs
- Completions of 24 Gross Development Wells



	COMANCHE AREA 5 TYPE CURVE				
	IP (Bbl/d)	836			
Oii	Initial Decline (%)	76.3%			
	Oil EUR (MBbl)	536			
	IP (Mcf/d)	1,457			
Gas	Initial Decline (%)	70.0%			
	Gas EUR (MMcf)	907			
NGL	NGL Yield (Bbl/MMcf)	129			
ž	NGL EUR (MBbl)	154			
3 Stream EUR (MBoe)		842			
% Oil		64%			
Well Cost (\$M)		\$4,200			
NPV10 (\$M)*		\$5,450			
IRR (%)*		90%			
	des (00) do 00 (4405 doo 00 (440) )				

<sup>\*</sup>Price Deck: \$55/BBL, \$3.00/MCF, \$22.00/NGL, Lateral Length Based on 7,500 ft.

#### **Area 5 – Drilling Economics**



# **South Central Catarina Development**

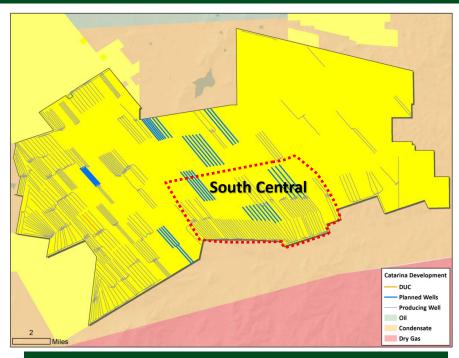


#### **2018 Activity In South Central Catarina**

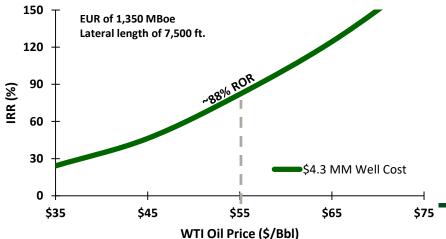
- Net D&C Capital ~\$68MM
- Drilling of 17 Gross Development Wells
- Completions of 17 Gross Development Wells

	SOUTH CENTRAL CATARINA	TYPE CURVE
	IP (Bbl/d)	475
Oii	Initial Decline (%)	77.3%
	Oil EUR (MBbl)	284
	IP (Mcf/d)	4,859
Gas	Initial Decline (%)	67%
	Gas EUR (MMcf)	3,309
NGL	NGL Yield (Bbl/MMcf)	119
ž	NGL EUR (MBbl)	515
3 Stream EUR (MBoe)		1,350
% Oil		21%
Well Cost (\$M)		\$4,290
NPV10 (\$M)*		\$5,502
	IRR (%)*	88%

<sup>\*</sup>Price Deck: \$55/BBL, \$3.00/MCF, \$22.00/NGL, Lateral Length Based on 7,500 ft.





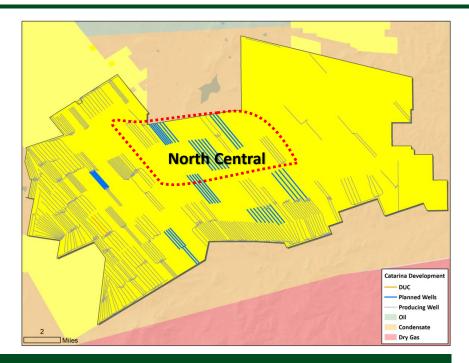


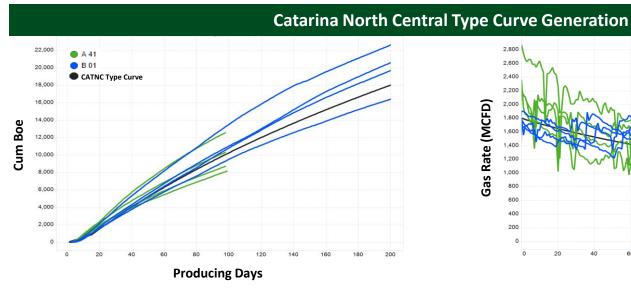
# **North Central Catarina Type Curve**

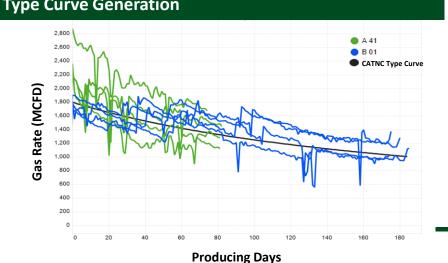


#### **Catarina North Central Development**

- SN has successfully delineated a New Development Area in the North Central portion of Catarina
- Development targeting two Upper Eagle Ford zones
- Strong well results from B01 and A41 prove up northern extent of Catarina
- Recent well results have de-risked approximately
   60 drilling locations







# **North Central Catarina Development**



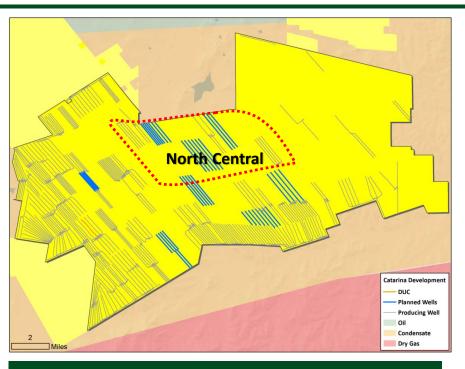
#### **2018 Activity In North Central Catarina**

- Net D&C Capital ~\$50MM
- Drilling of 16 Gross Development Wells
- Completions of 16 Gross Development Wells

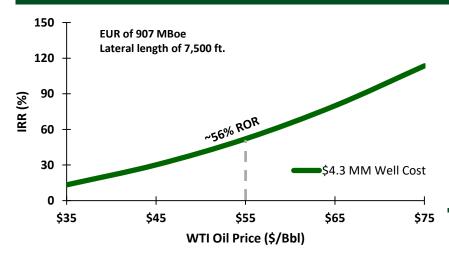
SN has successfully delineated a New Development Area in the North Central portion of Catarina that produces from two zones in the Upper Eagle Ford.

	NORTH CENTRAL CATARINA	TYPE CURVE
	IP (Bbl/d)	452
Oii	Initial Decline (%)	72.4%
	Oil EUR (MBbl)	333
10	IP (Mcf/d)	2,034
Gas	Initial Decline (%)	59%
	Gas EUR (MMcf)	1,783
NGL	NGL Yield (Bbl/MMcf)	119
ž	NGL EUR (MBbl)	277
3 Stream EUR (MBoe)		907
% Oil		37%
Well Cost (\$M)		\$4,290
NPV10 (\$M)*		\$3,923
	IRR (%)*	56%

<sup>\*</sup>Price Deck: \$55/BBL, \$3.00/MCF, \$22.00/NGL, Lateral Length Based on 7,500 ft.



#### **Catarina North Central Drilling Economics**



# **Eagle Ford Shale: Ideal Market Access and Product Mix**



#### **Eagle Ford Regional Pricing Benefits**

- Eagle Ford Has Direct Access to Premium Markets
  - Close proximity to Gulf Coast markets for exports
  - Pipeline connectivity to premium natural gas market in Mexico
  - No midstream bottlenecks or takeaway issues
- Oil Marketing Contracts Primarily Priced on LLS and Eagle Ford Postings
- Natural Gas Liquids Price Contracts Predominately Tied to Mt. Belvieu

# EagleFord SN Leases Oil Condensate Dry Gas MAVERICE MENUTY MANUELLE MINIOR MENUTY MANUELLE MENUTY MANUELLE MINIOR MINIOR

#### **Improving Oil Price Realizations**

	1Q17	2Q17	3Q17	4Q17
LLS (\$/Bbl)	\$53.87	\$51.78	\$49.07	\$57.39
WTI (\$/Bbl)	\$52.92	\$49.83	\$46.70	\$51.91
Price Differential	\$0.95	\$1.95	\$2.37	\$5.48

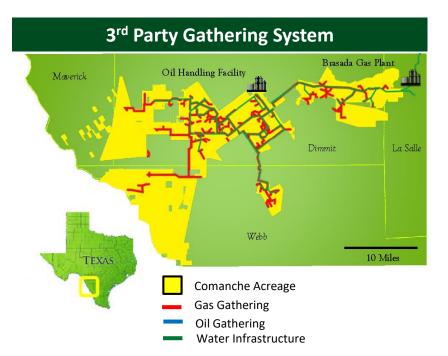
#### Sanchez's NGL \$/Bbl Realizations

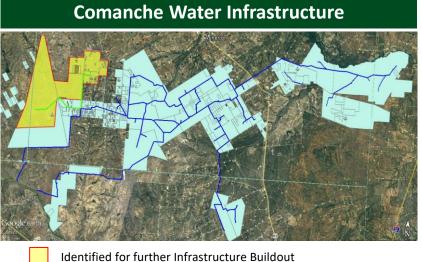


# **Extensive Field Infrastructure**



#### Extensive Field Gathering and Water Infrastructure Throughout Comanche





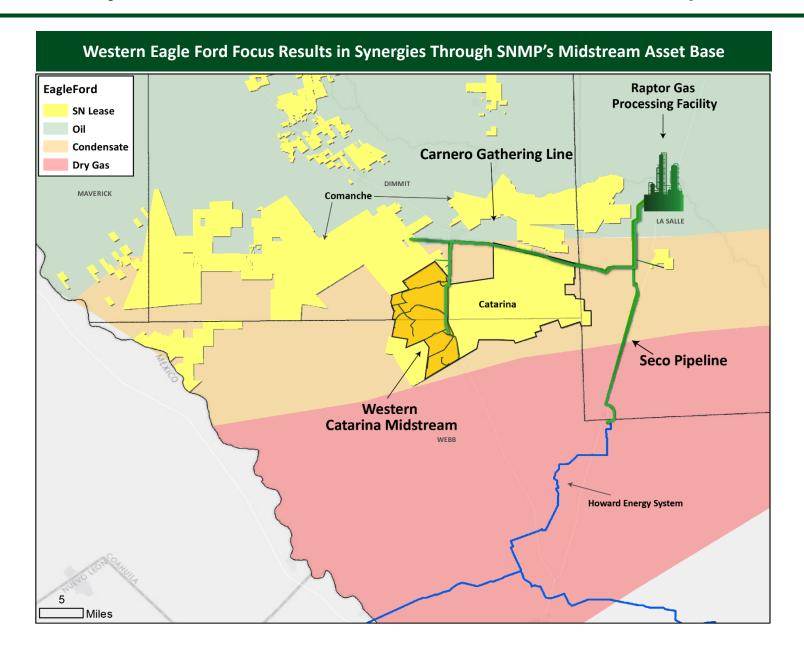
- 548 miles of gas pipeline and 241 miles of oil pipeline
- 24 compressor stations with centralized delivery points
- Water infrastructure is sufficient in Areas 3, 4, 5, and 7

Water Infrastructure

- Pipeline system will support up to 12 rigs and 6 frac spreads of simultaneous activity
- ◆ 18" and 22" trunk lines with 18" spur lines to ~85% of the acreage position

# Relationship with Sanchez Midstream Partners LP ("SNMP")







# Financial Highlights

### **Financial Overview**

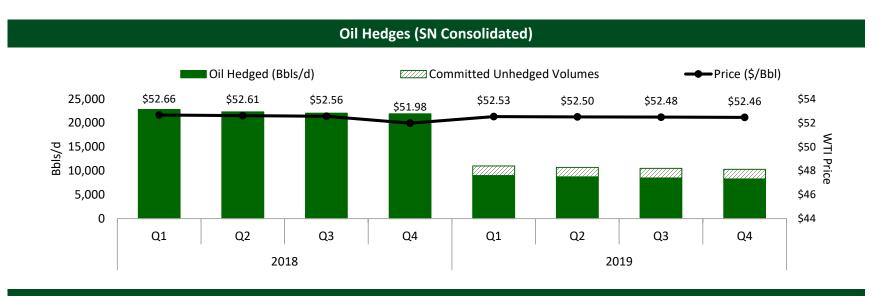


- Improve Liquidity Through Potential Asset Divestitures
  - Comanche water delivery system
  - Palmetto producing asset
  - Maverick producing asset
- Achieve Upside Through Balanced Commodity Mix
  - Improvement to NGL pricing protects against WTI pull back
  - Natural gas pricing remains steady
- Decrease Leverage as Production Volumes Grow
- Continue Active Hedge Program to De-Risk Cash Flows
- Remain a Low Cost Leader
  - Improves F&D cost
  - Drives value creation for shareholders

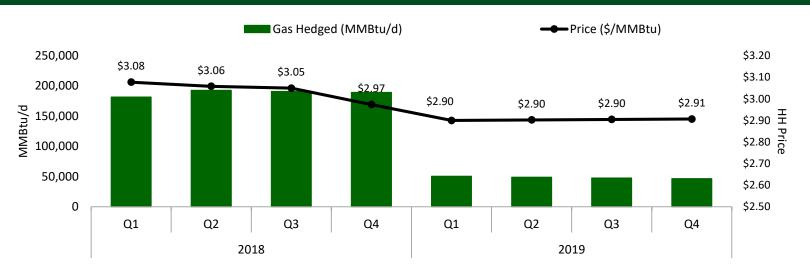
# **Active Hedging Program Helps Mitigate Price Volatility**



#### Significant hedge position guarantees base level of cash flows







# **Improving Balance Sheet**

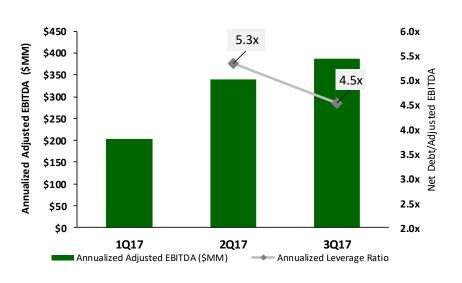


- Operating Margins Continue to Increase
  - Improvement through increase in production
  - Higher price realizations
  - Lower operating costs through asset synergies

- Deleveraging Remains a Priority
  - Reduce leverage through paydown of UnSub revolver
  - Targeting leverage metrics of below 3.5x

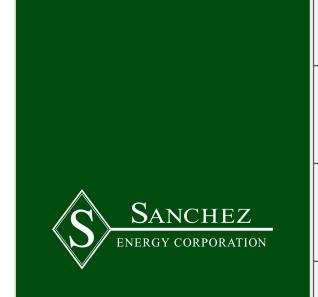


#### ...Driving Improving Leverage Metrics (1)



# **Sanchez Energy: Investment Highlights**





#### **Dominant Eagle Ford Acreage Position**

285,000 net acres in the Eagle Ford

#### **Significant Resource Potential**

Over 1 billion Boe

#### **High-Grade Asset Base**

Potential to divest non-core assets

# **Increasing Operating Margins**

Reduce costs through asset synergies

# **Improving Balance Sheet**

Targeting long-term deleveraging as a top priority



# Appendix

# **2018 Production and Cost Guidance**

Production & Ad Valorem Taxes (% of O&G Revenue)



	Guidance	
	1Q 2018 Full Year 20	
Production Volumes:		
Oil (Bbls/d)	28,000 - 29,000	30,000 - 32,000
NGL (Bbls/d)	27,000 - 28,000	30,000 - 32,000
Natural Gas (Mcf/d)	159,000 - 160,000	170,000 - 172,000
Barrel of Oil Equivalent (Boe/d)	82,000 - 84,000	88,000 - 92,000
Operating Costs & Expenses:		
Cash Production Expense (\$/Boe) <sup>(1)</sup>	\$9.50 - \$10.50	\$9.50 - \$10.50
Non-Cash Production Expense (\$MM)	\$5.9	\$23.6

5% - 6%

\$22.5

Note: Cash production expense, Non-cash production expense and cash G&A are non-GAAP financial measures. See "Explanation of non-GAAP financial measures" at the end of this presentation.

5% - 6%

\$90.0

Cash G&A (\$MM)<sup>(2)</sup>

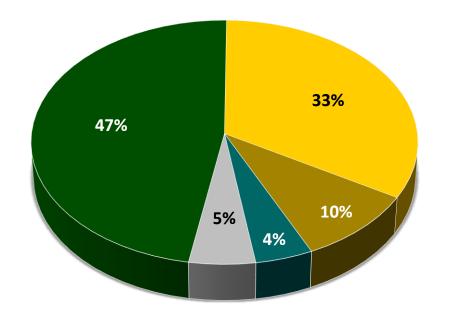
<sup>(1)</sup> Cash Production Expense guidance only relates to production expenses reported on the cash flow statement and does not include the effect from the deferred gain related to the Western Catarina Midstream Divestiture.
(2) Excludes all restricted stock but includes phantom stock based compensation based on a share price of \$5.17.

# **2018 Capital Guidance**





■ Comanche DUC



**2018 Total Capital Budget: \$420 MM - \$470 MM** 

Eagle Ford Operated			
	<u>Net</u> <u>Wells</u> <u>Drilled</u>	Net Wells Turned to Production	Total Capital (\$MM)
Catarina	44	44	\$205 - \$215
Maverick	3	3	\$15 - \$25
Comanche	33	19	\$145 - \$150
Comanche DUC	-	21	\$40 - \$45
Total	80	87	\$405 - \$435

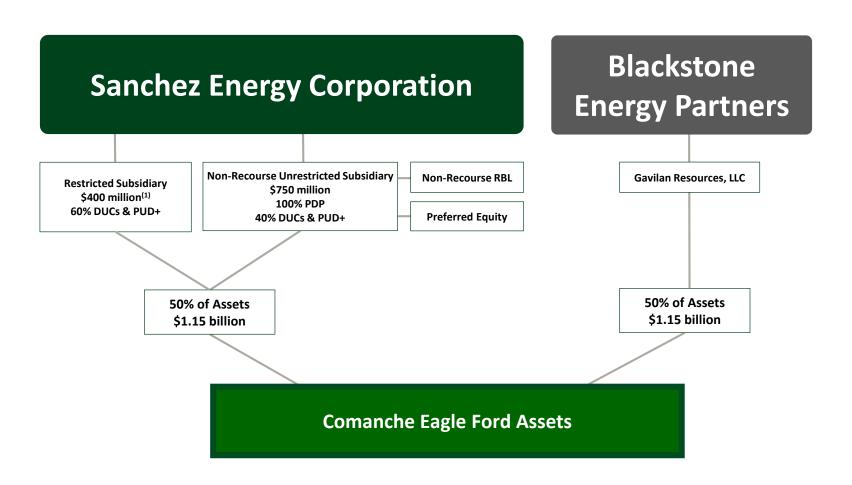
Eagle Ford Non - Operated			
	<u>Rigs</u>	Net Wells	Total Capital (\$MM)
Palmetto	<1	1	\$2
Other			

	Total Capital (\$MM)
Land/Infrastructure/Geology	\$13 - \$33

# **Strategic JV Facilitated Comanche Acquisition**



Repeatable Structure – Matches Cash Flow with Appropriate Financing



# **Detailed SN Restricted Subsidiary Hedge Position**



Crude Oil Hedges							
		Daily Volume					
Quarter	Type of Contract	Bbls/d	Swap Price				
	Swaps	16,000	\$51.58				
1Q18	<b>Total Volume</b>	16,000					
	Swaps	16,000	\$51.58				
2Q18	Total Volume	16,000					
	Swaps	16,000	\$51.58				
3Q18	<b>Total Volume</b>	16,000					
	Swaps	16,000	\$51.58				
4Q18	<b>Total Volume</b>	16,000					
	Swaps	4,000					
	Swaptions	2,000					
1Q19	<b>Total Volume</b>	6,000	\$50.06				
	Swaps	4,000					
	Swaptions	2,000					
2Q19	<b>Total Volume</b>	6,000	\$50.06				
	Swaps	4,000					
	Swaptions	2,000					
3Q19	<b>Total Volume</b>	6,000	\$50.06				
	Swaps	4,000					
	Swaptions	2,000					
4Q19	<b>Total Volume</b>	6,000	\$50.06				

Natural Gas Hedges							
Quarter	Type of Contract	Daily Volume MMBtus/d	Swap Price				
	Swaps	144,000	\$3.03				
1Q18	<b>Total Volume</b>	144,000					
	Swaps	157,000	\$3.01				
2Q18	<b>Total Volume</b>	157,000					
	Swaps	157,000	\$3.01				
3Q18	<b>Total Volume</b>	157,000					
	Swaps	156,000	\$3.00				
4Q18	<b>Total Volume</b>	156,000					
	Swaps	20,000	\$3.02				
1Q19	<b>Total Volume</b>	20,000					
	Swaps	20,000	\$3.02				
2Q19	<b>Total Volume</b>	20,000					
	Swaps	20,000	\$3.02				
3Q19	Total Volume	20,000					
	Swaps	20,000	\$3.02				
4Q19	Total Volume	20,000					

# **Detailed UnSub Hedge Position**



Crude Oil Hedges								
Quarter	Type of Contract	Daily Volume Bbls/d	Floor Price	Ceiling Price				
	Swaps	6,300	\$55.85					
4Q17	<b>Total Volume</b>	6,300						
	Swaps	6,800	\$55.22					
1Q18	<b>Total Volume</b>	6,800						
	Swaps	6,300	\$55.24					
2Q18	<b>Total Volume</b>	6,300						
	Swaps	6,000	\$55.16					
3Q18	<b>Total Volume</b>	6,000						
	Swaps	5,900	\$53.08					
4Q18	<b>Total Volume</b>	5,900						
	Swaps	5,000	\$53.52					
1Q19	<b>Total Volume</b>	5,000						
	Swaps	4,700	\$53.52					
2Q19	<b>Total Volume</b>	4,700						
	Swaps	4,500	\$53.52					
3Q19	<b>Total Volume</b>	4,500						
	Swaps	4,300	\$53.52					
4Q19	<b>Total Volume</b>	4,300						
	Swaps	4,200	\$53.52					
1Q20	<b>Total Volume</b>	4,200						

Natural Gas Hedges							
Quarter	Type of Contract	Daily Volume MMBtus/d	Swap Brica				
Quarter	Swaps	37,000	Swap Price \$3.26				
4Q17	Total Volume	37,000	Ψ3.20				
	Swaps	36,000	\$3.26				
1Q18	Total Volume	36,000					
	Swaps	34,000	\$3.26				
2Q18	Total Volume	34,000					
	Swaps	32,000	\$3.26				
3Q18	Total Volume	32,000					
	Swaps	31,000	\$2.82				
4Q18	Total Volume	31,000					
	Swaps	30,000	\$2.82				
1Q19	Total Volume	30,000					
	Swaps	29,000	\$2.82				
2Q19	Total Volume	29,000					
	Swaps	28,000	\$2.82				
3Q19	Total Volume	28,000					
	Swaps	27,000	\$2.82				
4Q19	Total Volume	27,000					
	Swaps	26,000	\$2.82				
1Q20	Total Volume	26,000					

### **Non-GAAP Reconciliation Slide**



#### Non-GAAP Reconciliation – Adjusted EBITDA

		Three Months Ended				
(\$ in thousands)	_	9/30/2017	_	6/30/2017	-	3/31/2017
Net income (loss)	\$	(44,782)	\$	46,309	\$	9,702
Adjusted by:		• • •		·		·
Interest expense		35,686		35,961		33,025
Net losses (gains) on commodity derivative contracts		41,719		(59,615)		(38,881)
Net settlements received on commodity derivative contracts (1)		10,527		7,177		(2,905)
Depreciation, depletion, amortization and accretion		51,859		50,851		33,206
Impairment of oil and natural gas properties		_		_		_
Stock-based compensation expense (non-cash)		911		4,335		12,091
Acquisition and divestiture costs included in general and administrative		1,771		2,848		24,074
Income tax benefit		_		(255)		(953)
(Gain)/Loss on sale of oil and natural gas properties		2,074		(7,133)		(5,143)
Gain/(Loss) on embedded derivatives		(1,804)		437		(685)
(Gain)/Loss on investments		2,776		8,058		(8,864)
Amortization of deferred gain on Western Catarina Midstream Divestiture		(3,702)		(3,705)		(3,702)
Interestincome		(163)		(150)		(357)
Adjusted EBITDA	\$	96,872	\$	85,118	\$	50,608
Adjusted EBITDA (Annualized 4x)	\$	387,488	\$	340,472	\$	202,432

<sup>(1)</sup> This amount has been reduced by premiums associated with derivatives that settled during the respective periods, which may include premiums accrued but not yet paid as of the end of the quarter based on timing of cash settlement payments with counterparties.

# **Non-GAAP Reconciliation Slide**



#### Non-GAAP Reconciliation – Net debt

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	9/30/2017	6/30/2017	3/31/2017	
Sanchez Long-Term Debt:				
Senior Unsecured Notes	1,754,250	1,750,000	1,750,000	
SN Credit Facility	-	-	-	
UnSub Credit Facility	175,500	198,500	190,000	
Total Long-Term Debt	\$ 1,929,750	\$ 1,948,500	\$ 1,940,000	
Less: Cash Balance	\$ 174,228	\$ 128,247	\$ 124,585	
Net Debt	\$ 1,755,522	\$ 1,820,253	\$ 1,815,415	

# **Non-GAAP Reconciliation Slide**



#### Non-GAAP Reconciliation – Operating Margin

(\$ in thousands)	Three Months Ended							
_	9/30/2017	6/30/2017	3/31/2017					
Sanchez Operating Margin:								
Oil and Gas Revenues	184,806	175,704	133,843					
Operating Costs:								
Oil and Gas production Exp $^{(1)}$	75,756	68,548	43,925					
Production and ad val taxes	11,346	8,799	6,524					
Cash G&A <sup>(2)</sup>	13,754	25,378	55,374					
Operating Income	\$83,950	\$72,979	\$28,020					
Operarting Margin Per Boe	\$12.37	\$10.93	\$6.01					

<sup>(1)</sup> Excludes quarterly non-cash gain of \$3.7 million from the amortization of the deferred gain on Western Catarina Midstream divestiture

<sup>(2)</sup> Includes base general and administrative expense, phantom unit costs, and acquisition and divestiture costs

#### Non-GAAP Reconciliation and Measures



#### Disclosure of Net Present Value ("NPV")

The Company presents the net present value (denoted "NPV" or "NPV10" in the presentation) of our reserves attributable to our drilling locations as of December 31, 2017, which is equal to the present value, discounted at 10% per annum, of the estimated fair value of future cash flows of these locations net of capital and operating costs, before deducting future income taxes. The Company has used a specified price deck and reserve classifications that do not coincide with SEC pricing or reserve classification guidelines. The Company does not believe NPV to be a "Non-GAAP financial measure," as defined in SEC rules, since GAAP does not provide for disclosure of the Standardized Measure when using non-SEC guided assumptions and the Company believes there is no directly comparable GAAP measure; therefore it is not practicable to provide a reconciliation to any GAAP measure. The Company uses NPV as an arbitrary reserve asset value measure to compare against past reserve bases of other business entities. NPV should not be considered as an estimate of fair market value or as an alternative to PV-10 or Standardized Measure. The Company's calculations of NPV are based on numerous assumptions that may change as a result of future activities or circumstances.

#### **Explanation of Non-GAAP Measures**

Adjusted EBITDA is defined by the Company as net income (loss) PLUS: (1) interest expense, including net losses (gains) on interest rate derivative contracts; (2) net losses (gains) on commodity derivatives; (3) net settlements received (paid) on commodity derivatives; (4) depletion, depreciation, amortization, and accretion; (5) stock-based compensation expense; (6) acquisition costs included general and administrative; (7) income tax expense (benefit); (8) loss (gain) on sale of oil and natural gas properties; (9) impairment of oil and natural gas properties; and (10) other non-recurring items that we deem appropriate; LESS: (1) premiums on commodity derivative contracts; (2) interest income; and (3) other non-recurring items that we deem appropriate.

Adjusted EBITDA is used as a supplemental financial measure by our management and by external users of our financial statements, such as investors, commercial banks and others, to assess our operating performance as compared to that of other companies in our industry, without regard to financing methods, capital structure, or historical cost basis. It is also used to assess our ability to incur and service debt and fund capital expenditures.

Our Adjusted EBITDA should not be considered an alternative to net income (loss), operating income (loss), cash flow provided by or used in operating activities or any other measure of financial performance or liquidity presented in accordance with GAAP. Our Adjusted EBITDA may not be comparable to similarly titled measures of another company because all companies may not calculate Adjusted EBITDA in the same manner.

We define net debt as long-term debt less cash and cash equivalents. Net debt should not be considered as an alternative to current or long term debt, as defined by GAAP. We believe that this presentation may be useful to investors who follow the practice of some industry analysts who utilize net debt and Adjusted EBITDA in their Net Debt-to-Adjusted EBITDA ratio calculation. Company management uses this information for comparative purposes within the industry.

Cash production expense equals oil and natural gas production expense minus non-cash production expenses. Non-cash production expense equals oil and natural gas production expense minus cash production expenses. Cash G&A expense equals G&A excluding certain non-recurring acquisition and divestiture expenses and stock based compensation. Cash production expense, non-cash production expense and cash G&A are presented herein in an attempt to assist the public in understanding the difference between oil and natural gas production expense and G&A as will be reported in SEC filed financials. We also view the non-GAAP measures of cash production expense, non-cash production expense and cash G&A as a useful tool for comparisons of our financial indicators with those of peer companies. In addition, these measures are commonly used by management, analysts and investors as an indicator of cost management and operating efficiency on a comparable basis from period to period. Cash production expense, non-cash production expense and cash G&A should not be considered as an alternative to oil and natural gas production expense or G&A presentations, as defined by GAAP. We are unable to provide a reconciliation of the forward-looking non-GAAP financial measures, cash production expense, non-cash production expense and cash G&A, to the most directly comparable GAAP financial measure, oil and natural gas production expense and G&A, because the information necessary for a quantitative reconciliation of the forward-looking non-GAAP financial measure to the most directly comparable GAAP financial measure is not available to us without unreasonable efforts. The probable significance of providing these forward-looking non-GAAP financial measures without the directly comparable GAAP financial measures is that such GAAP financial measures may be materially different from the corresponding non-GAAP financial measures.

Operating margin represents total product revenues less certain direct operating expenses. Operating margin per Boe is equal to operating margin divided by total equivalent crude oil, NGL and natural gas production.

Operating margin is not adjusted for the impact of hedges. We believe that operating margin per Boe is an important measure that can be used by security analysts and investors to evaluate our operating margin per unit of production and to compare it to other oil and gas companies, as well as for comparisons to other time periods.