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**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): December 9, 2013

**LAREDO PETROLEUM HOLDINGS, INC.**  
(Exact Name of Registrant as Specified in Charter)

**Delaware**  
(State or Other Jurisdiction of Incorporation or  
Organization)

**001-35380**  
(Commission File Number)

**45-3007926**  
(I.R.S. Employer Identification No.)

**15 W. Sixth Street, Suite 1800, Tulsa, Oklahoma**  
(Address of Principal Executive Offices)

**74119**  
(Zip Code)

Registrant's telephone number, including area code: **(918) 513-4570**

**Not Applicable**  
(Former Name or Former Address, if Changed Since Last Report)

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:

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
  - Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
  - Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
  - Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))
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**Item 7.01. Regulation FD Disclosure.**

On December 9, 2013, Laredo Petroleum Holdings, Inc. (the "Company") issued a press release announcing its anticipated 2014 capital budget. A copy of the press release is furnished as Exhibit 99.1 to this Current Report on Form 8-K and incorporated into this Item 7.01 by reference.

Also on December 9, 2013, the Company posted to its website its Corporate Presentation for December 2013. The presentation is available on the Company's website, [www.laredopetro.com](http://www.laredopetro.com), and is furnished as Exhibit 99.2 to this Current Report on Form 8-K and incorporated into this Item 7.01 by reference.

All statements in the press release and presentation other than historical financial information, may be deemed to be 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. Although the Company believes the expectations expressed in such forward-looking statements are based on reasonable assumptions, such statements are not guarantees of future performance and actual results or developments may differ materially from those in the forward-looking statements. See the Company's filings with the SEC for a discussion of other risks and uncertainties. The Company disclaims any intention or obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.

In accordance with General Instruction B.2 of Form 8-K, the information in this report (including Exhibit 99.1 and Exhibit 99.2) is deemed to be "furnished" and shall not be deemed "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934, as amended, or otherwise subject to the liabilities of that section, nor shall such information and Exhibits be 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 9.01. Financial Statements and Exhibits.**

(d) *Exhibits.*

<b>Exhibit Number</b>	<b>Description</b>
99.1	Press release.
99.2	Corporate Presentation December 2013

**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.

**LAREDO PETROLEUM HOLDINGS, INC.**

Dated: December 9, 2013

By: /s/ KENNETH E. DORNBLASER

Kenneth E. Dornblaser

Senior Vice President and General Counsel

## EXHIBIT INDEX

Exhibit Number	Description
99.1	Press release.
99.2	Corporate Presentation December 2013



15 West 6<sup>th</sup> Street, Suite, 1800 · Tulsa, Oklahoma 74119 · (918) 513-4570 · Fax: (918) 513-4571  
www.laredopetro.com

## Laredo Petroleum Announces 2014 Capital Budget of \$1 Billion

**TULSA, OK - December 9, 2013** - Laredo Petroleum Holdings, Inc. (NYSE: LPI) (“Laredo” or “the Company”), today announced that its Board of Directors has approved a \$1 billion capital budget for 2014, excluding acquisitions. Approximately 84% of the capital budget is focused on drilling and completion activities, approximately 13% for facilities and 3% for land, seismic and other capital. This development-focused capital program is expected to drive an approximate 30% annual growth in production volumes from the Company’s Permian Basin properties.

“We are now moving into full-scale development of our Permian-Garden City asset,” explained Randy A. Foutch, Laredo’s Chairman and Chief Executive Officer. “Laredo’s expected activities for 2014 represent the culmination of the process we put forward in 2012 to confirm a significant portion of our acreage for horizontal development from multiple zones and the optimal spacing, both vertically and horizontally, of the laterals. With the success of these programs, we are now beginning to implement our multi-zone development plan by building out several production corridors to support more efficient, multi-well pad development. Expected cost savings associated with this plan will serve us well as we begin the ramp-up of development drilling activities to accelerate the value recognition from our Permian-Garden City asset.”

The 2014 capital budget of \$1 billion, which is expected to be funded from internally-generated cash flow and borrowings under the Company’s senior secured credit facility, is allocated as follows:

	(\$ in millions)
Horizontal Drilling	\$ 545
Vertical Drilling	240
Non-operated	55
<b>Drilling and Completion</b>	<b>840</b>
<b>Facilities</b>	<b>130</b>
<b>Land and Seismic</b>	<b>20</b>
<b>Other</b>	<b>10</b>
<b>Total</b>	<b>\$ 1,000</b>

The Company's drilling capital in 2014 will be concentrated on horizontal development of the Upper, Middle and Lower Wolfcamp and Cline shale zones, primarily with two, three and four-stacked laterals from multi-well pads. Additionally, the Company will continue delineation efforts across its approximate 142,000 net acres of Permian-Garden City leasehold by horizontally testing additional zones and acreage. Laredo expects to operate six to seven horizontal rigs during 2014 and anticipates drilling approximately 70-75 gross horizontal wells, 85% of which will be development wells. The Company also expects to operate five vertical rigs to drill approximately 120-125 gross wells for development and data gathering purposes as well as meeting lease maintenance obligations.

To maximize efficiency, rigs drilling development wells will operate in concentrated geographic areas where the Company has started building out production corridors to maximize the cost savings from common facilities. The Company's facilities capital expenditures in 2014 are expected to focus on building out the core infrastructure that will enable the Company's transition to full-scale hydrocarbon manufacturing. Laredo is building multiple production corridors that will support development drilling for hundreds of wells and are expected to benefit the future cost structure of the Company.

Total annual production for 2014 is expected to range from 12.2 million to 12.7 million barrels of oil equivalent ("BOE"), or approximately 33,400 to 34,800 BOE per day, on a two-stream basis. Production is expected to be comprised of approximately 58% oil and 42% high (>1,300 British thermal unit ("Btu") natural gas.

The Company actively monitors commodity prices and service costs and may make adjustments to the capital budget and guidance as conditions warrant. Laredo has underpinned a portion of cash flow by hedging production with commodity derivative instruments, which currently cover approximately 45% of projected oil production and 30% of projected natural gas production for 2014 with weighted-average floor prices of \$87.35 per barrel of oil and \$3.00 per MMBtu of natural gas.

Laredo Petroleum Holdings, Inc. is an independent energy company with headquarters in Tulsa, Oklahoma. Laredo's business strategy is focused on the exploration, development and acquisition of oil and natural gas properties primarily in the Permian region of the United States.

Additional information about Laredo may be found on its website at [www.laredopetro.com](http://www.laredopetro.com).

***Forward-Looking Statements***

*This press release contains forward-looking statements as defined under Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. All statements, other than statements of historical facts, that address activities that Laredo assumes, plans, expects, believes, intends, projects, estimates or anticipates (and other similar expressions) will, should*

or may occur in the future are forward-looking statements. The forward-looking statements are based on management's current belief, based on currently available information, as to the outcome and timing of future events.

General risks relating to Laredo include, but are not limited to the risks described in its Annual Report on Form 10-K for the year ended December 31, 2012, Quarterly Report on Form 10-Q for the quarter ended June 30, 2013, and those set forth from time to time in other filings with the Securities and Exchange Commission ("SEC"). These documents are available through Laredo's website at [www.laredopetro.com](http://www.laredopetro.com) under the tab "Investor Relations" or through the SEC's Electronic Data Gathering and Analysis Retrieval System ("EDGAR") at [www.sec.gov](http://www.sec.gov). Any of these factors could cause Laredo's actual results and plans to differ materially from those in the forward-looking statements. Therefore, Laredo can give no assurance that its future results will be as estimated. Laredo does not intend to, and disclaims any obligation to, update or revise any forward-looking statement.

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Contacts:

Ron Hagood: (918) 858-5504 - [RHagood@laredopetro.com](mailto:RHagood@laredopetro.com)

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**LAREDO**  
PETROLEUM

**Corporate Presentation**  
December 2013



## Forward-Looking / Cautionary Statements

This presentation contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. All statements, other than statements of historical fact, included in this presentation that address activities, events or developments that Laredo Petroleum Holdings, Inc. (the "Company", "Laredo" or "LPI") assumes, plans, expects, believes or anticipates will or may occur in the future are forward-looking statements. The words "believe," "expect," "may," "estimates," "will," "anticipate," "plan," "intend," "foresee," "should," "would," "could," or other similar expressions are intended to identify forward-looking statements, which are generally not historical in nature. However, the absence of these words does not mean that the statements are not forward-looking. Without limiting the generality of the foregoing, forward-looking statements contained in this presentation specifically include the expectations of plans, strategies, objectives and anticipated financial and operating results of the Company, including as to the Company's drilling program, production, hedging activities, capital expenditure levels and other guidance included in this presentation. These statements are based on certain assumptions made by the Company based on management's expectations and perception of historical trends, current conditions, anticipated future developments and other factors believed to be appropriate. Such statements are subject to a number of assumptions, risks and uncertainties, many of which are beyond the control of the Company, which may cause actual results to differ materially from those implied or expressed by the forward-looking statements. These include, but are not limited to, risks relating to financial performance and results, current economic conditions and resulting capital restraints, prices and demand for oil and natural gas, availability of drilling equipment and personnel, availability of sufficient capital to execute the Company's business plan, impact of compliance with legislation, regulations, and regulatory actions, successful results from our drilling activities, the Company's ability to replace reserves and efficiently develop and exploit its current reserves and other important factors that could cause actual results to differ materially from those projected as described in the Company's Annual Report on Form 10-K for the year ended December 31, 2012, Quarterly report on form 10-Q for the quarter ended June 30, 2013, Rule 424(b)(5) prospectus supplement filed August 8, 2013 and Laredo's other reports filed with the SEC.

Any forward-looking statement speaks only as of the date on which such statement is made and the Company undertakes no obligation to correct or update any forward-looking statement, whether as a result of new information, future events or otherwise, except as required by applicable law.

The SEC generally permits oil and gas companies, in filings made with the SEC, to disclose proved reserves, which are reserve estimates that geological and engineering data demonstrate with reasonable certainty to be recoverable in future years from known reservoirs under existing economic and operating conditions and certain probable and possible reserves that meet the SEC's definitions for such terms. In this presentation, the Company may use the terms "estimated ultimate recovery", "EUR" or descriptions of volumes of reserves which the SEC guidelines restrict from being included in filings with the SEC without strict compliance with SEC definitions. The Company does not choose to include unproved reserve estimates in its filings with the SEC. Estimated ultimate recovery, refers to the Company's internal estimates of per well hydrocarbon quantities that may be potentially recovered, from a hypothetical and actual well completed in the area. Actual quantities that may be ultimately recovered from the Company's interests are unknown. Factors affecting ultimate recovery include the scope of the Company's ongoing drilling program, which will be directly affected by the availability of capital, drilling and production costs, availability of drilling services and equipment, drilling results, lease expirations, transportation constraints, regulatory approvals and other factors, as well as actual drilling results, including geological and mechanical factors affecting recovery rates. Estimates of ultimate recovery from reserves may change significantly as development of the Company's core assets provide additional data. In addition, the Company's production forecasts and expectations for future periods are dependent upon many assumptions, including estimates of production decline rates from existing wells and the undertaking and outcome of future drilling activity, which may be affected by significant commodity price declines or drilling cost increases.

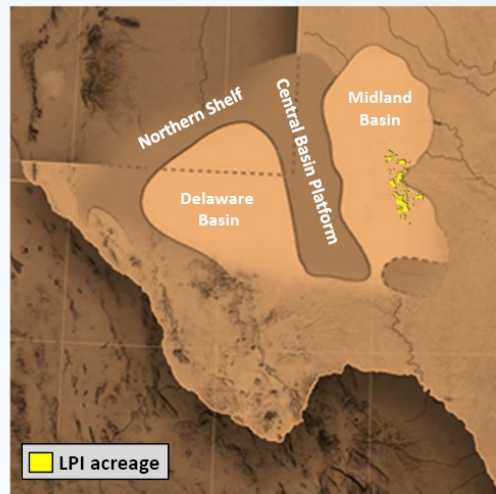
This presentation includes financial measures that are not in accordance with generally accepted accounting principles ("GAAP"), including Adjusted EBITDA. While management believes that such measures are useful for investors, they should not be used as a replacement for financial measures that are in accordance with GAAP. For a reconciliation of Adjusted EBITDA to the nearest comparable measure in accordance with GAAP, please see the Appendix.

As previously disclosed, on August 1, 2013 (with an economic effective date of April 1, 2013) the Company disposed of its oil and natural gas properties, associated pipeline assets and various other associated property and equipment in the Anadarko Granite Wash, Central Texas Panhandle and the Eastern Anadarko Basin. As a result of such sale, the reserves, cash flows and all other attributes associated with the ownership and operations of these properties have been eliminated from the ongoing operations of the Company, and the information in this presentation has been prepared on such basis.



## Laredo Petroleum Today

- High-quality acreage position in the fairway of the Midland Basin
- Top-tier well results in multiple horizons
- Significant resource potential: >10x existing reserves <sup>1</sup>
- Transitioning to development manufacturing mode
- Strong financial structure



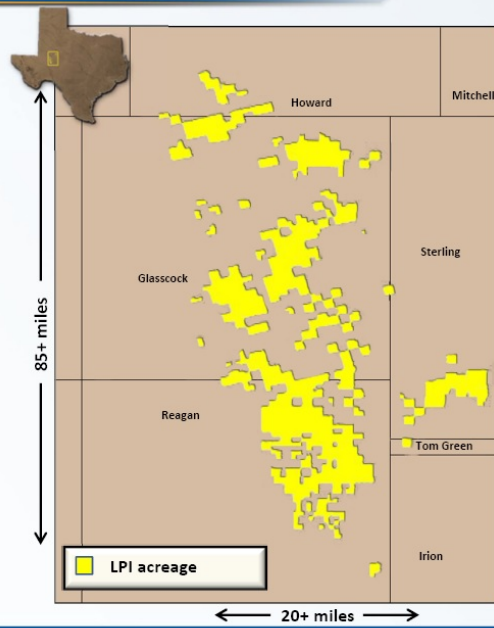
**Concentrated Garden City acreage is in the heart of the Permian's Midland Basin**



<sup>1</sup> Based on LPI internal reserve estimates (2-stream) as of 6/30/2013, pro-forma for sale of Anadarko Basin properties, and estimated total resource potential of more than 2 Billion Bbls

## Concentrated Asset Portfolio Focused in Midland Basin

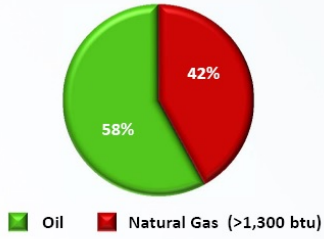
- ~141,230 net acres<sup>1</sup>
- ~65% held by production<sup>1</sup>
- ~90% average working interest<sup>2</sup>
- Multiple horizontal zones in addition to the Wolfcamp and Cline.



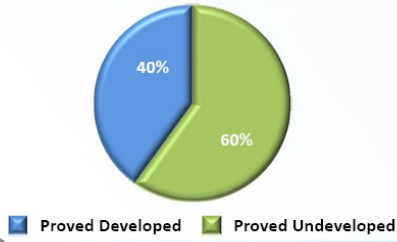
<sup>1</sup> As of 9/30/2013  
<sup>2</sup> Working interest in wells drilled as of 9/30/2013

# 2013 Mid-Year Reserve Update

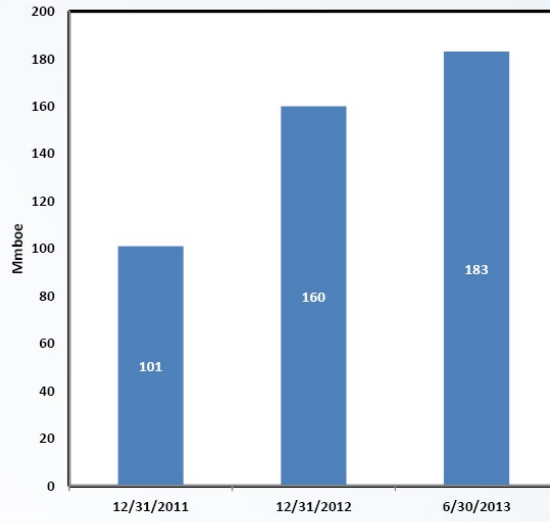
## By Product



## By Category

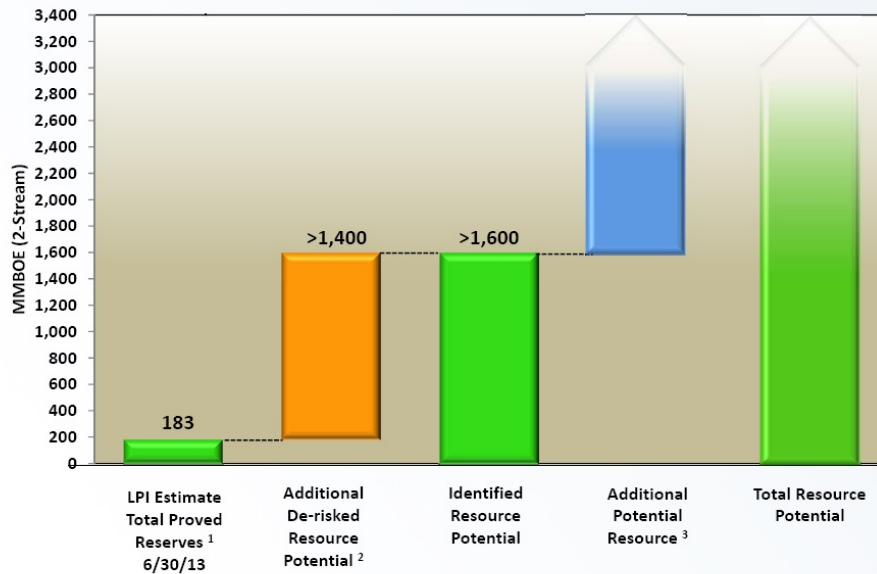


## **183 MMBOE as of 6/30/13<sup>1</sup>** Permian Reserve Growth



<sup>1</sup> Internal estimate, 2-stream, as of 6/30/2013, presented on a pro-forma basis for the Anadarko Basin assets divestiture

# Identified Path for Growth



<sup>1</sup> Internal estimate, 2-stream, as of 6/30/2013, presented on a pro-forma basis for the Anadarko Basin assets divestiture

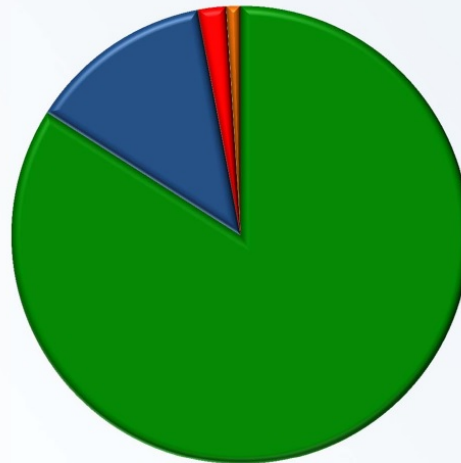
<sup>2</sup> Based upon un-booked identified well locations for vertical Wolfberry's and horizontal wells in the Upper Wolfcamp, Middle Wolfcamp, Lower Wolfcamp and Cline

<sup>3</sup> Includes potential locations on acreage not de-risked by Hz wells, additional zones for Hz development and potential down-spacing

## 2014 Capital Program

**Total Capital - 2014**  
~\$1,000 MM

Drilling & Completion	\$840 MM
Facilities	130 MM
Land & Seismic	20 MM
Other	10 MM



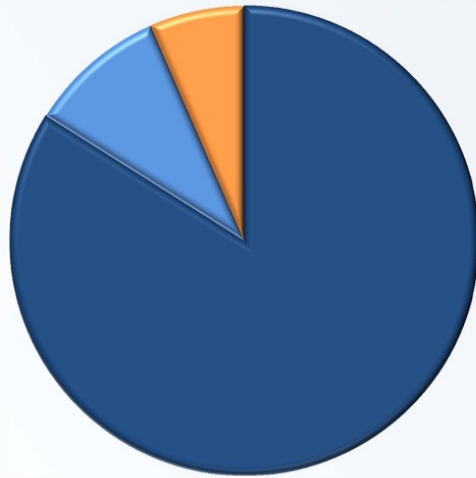
■ Drilling & Completion   ■ Facilities  
■ Land & Seismic   ■ Other



## Drilling & Completion Capital

### Drilling & Completion ~\$840 MM

Hz Development	~55%
Vertical Development	~30%
Hz Delineation	~10%
Non-operated	~ 5%



### Number of Rigs / Wells

#### 6-7 Horizontal Rigs

Development: 60 - 65

Delineation: 10 - 12

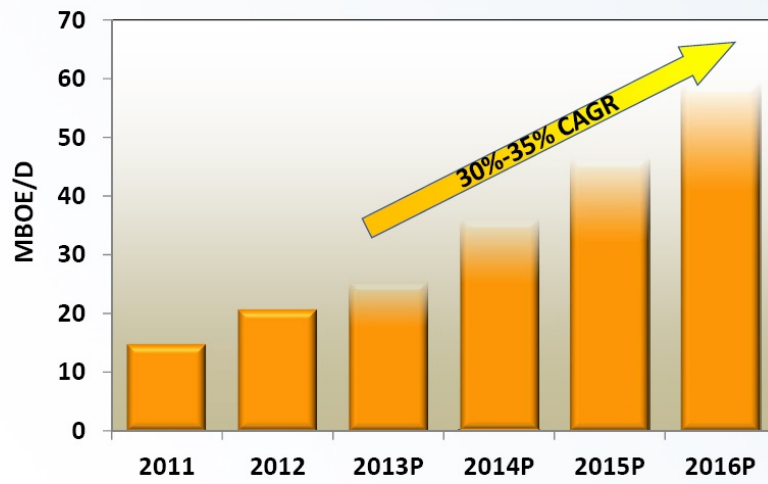
#### 5 Vertical Rigs

Development: 120 - 125

■ Hz/Vert Development ■ Hz Delineation ■ Non-operated

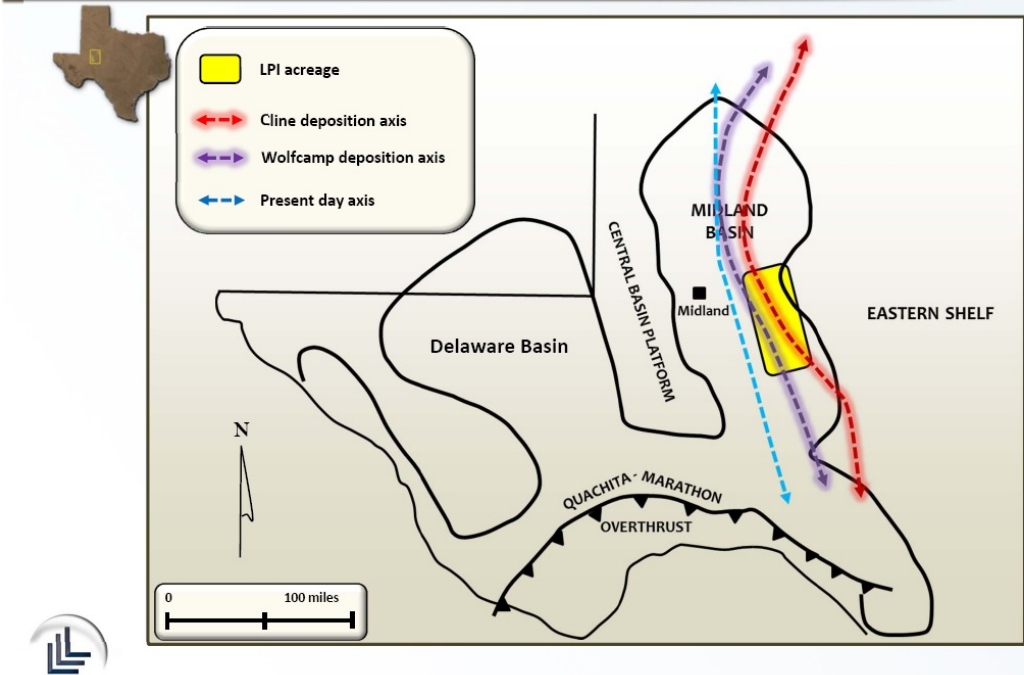


## Permian Production Growth

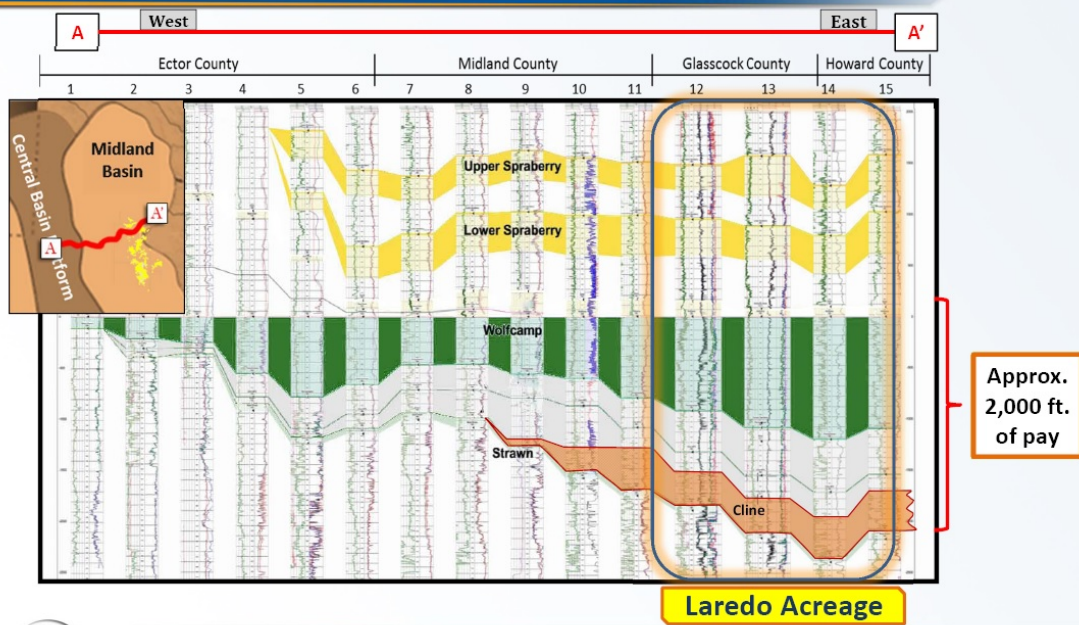




# Permian Basin: Present Day

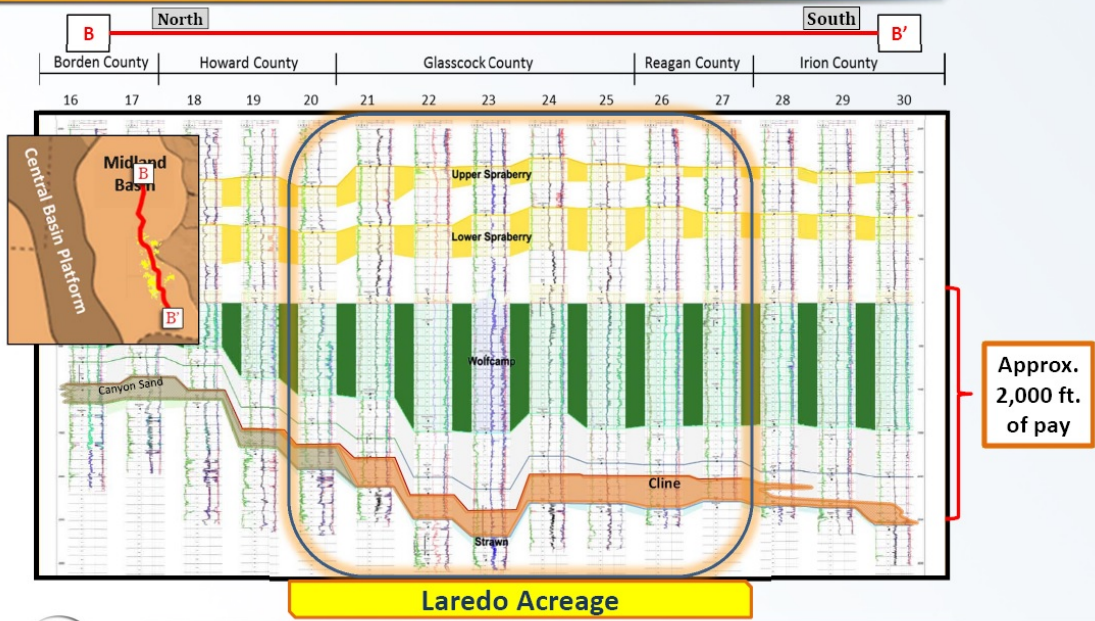


# Laredo Situated Over Thickest Column of Sediment: W-E



<sup>1</sup> Modified from Core-Lab, 2013

# Laredo Situated Over Thickest Column of Sediment: N-S



<sup>1</sup> Modified from Core-Lab, 2013

# Laredo's Permian-Garden City Shales<sup>1</sup>

**Significant oil in place in multiple stacked zones**

	<u>Spraberry</u>	<u>Wolfcamp</u>	<u>Cline</u>	<u>A/B/W</u>	<u>Combined</u>
Depth (ft)	5,000 – 7,000	7,000 – 8,500	9,000 – 9,500	9,500 – 10,500	5,000 – 10,500
Average Thickness (ft)	1,500 – 2,000	1,500 – 2,000	250 – 350	350 – 400	3,600 – 4,750
TOC (%)	4.0 – 13.0	2.0 – 9.0	2.0 – 7.5	2.0 – 13.0	2.0 – 13.0
Thermal maturity (% RSO)	0.6 – 0.7	0.7 – 0.9	0.9 – 1.1	0.9 – 1.2	0.6 – 1.2
Total porosity (%)	6.0% – 16.0%	4.0% – 8.0%	5.0% – 8.0%	3.0% – 13.0%	3.0% – 16.0%
Clay content (%)	15 – 40	25 – 45	30 – 40	20 – 45	15 – 45
Pressure gradient (psi/ft)	0.40 – 0.50	0.45 – 0.50	0.55 – 0.65	0.55 – 0.65	0.40 – 0.65
OOIP (MMBOE/Section)	45 – 85	70 – 115	25 – 35	40 – 55	180 – 290

Clearfork
Upper Spraberry ★
Lower Spraberry ★
Dean
Upper Wolfcamp
Middle Wolfcamp
Lower Wolfcamp
Canyon
Penn Shale
Cline
Strawn ★
Atoka (A)
Barnett (B) ★
Woodford (W)
Fusselman

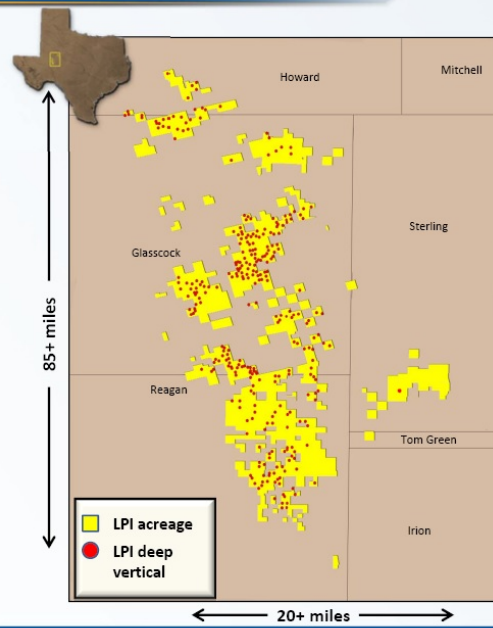
★ Additional zones with horizontal upside potential



<sup>1</sup> Properties from proprietary LPI core analysis

## Vertical Wolfberry: Confirms Quality of Acreage<sup>1</sup>

- >800 vertical Wolfberry wells across acreage
  - >300 deep vertical Wolfberry wells through the Atoka
- Average well density is approximately one well per 200 acres across acreage
- >20% rate of return



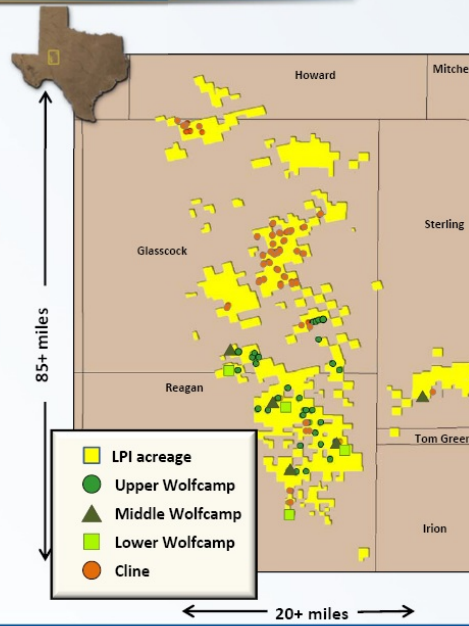
<sup>1</sup> As of 9/30/2013

# Proven Multi-zone Horizontal Performance

**Average 30-day IP results from the Upper, Middle and Lower Wolfcamp at high end or exceeding type curve**

Horizontal Zone	Total # of Completions <sup>1</sup>		Long Lateral 30-Day Average IP <sup>2</sup>
	Short Lateral	Long Lateral	BOE/D 2-Stream
Upper Wolfcamp	7	25	717
Middle Wolfcamp	1	5	630
Lower Wolfcamp	0	4	861
Cline	31	6	594

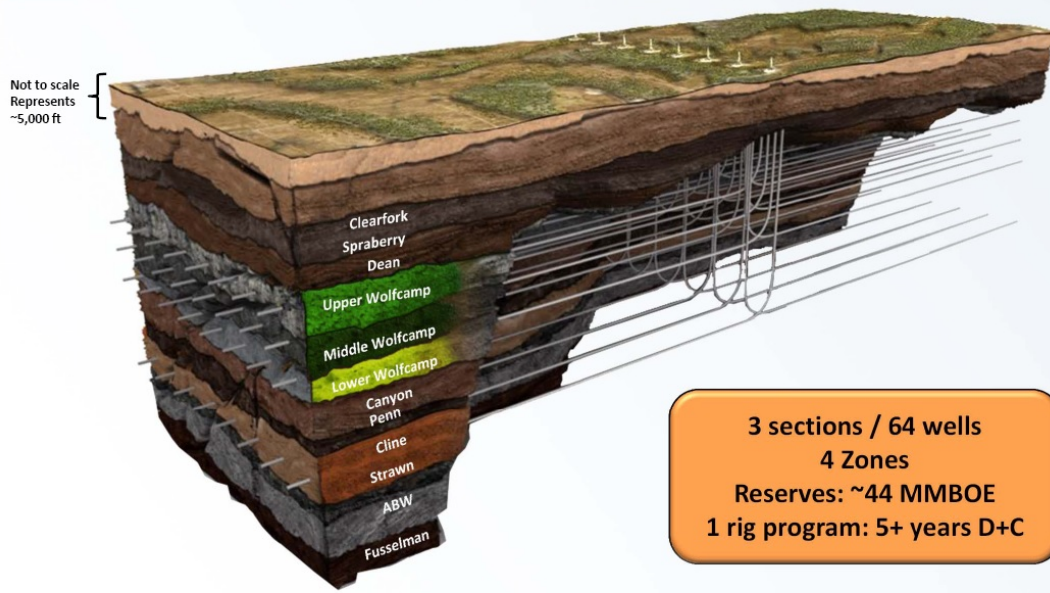
**Commercial development has been proven for all four zones from 79 horizontal wells**



<sup>1</sup> Well completions as of 9/30/2013

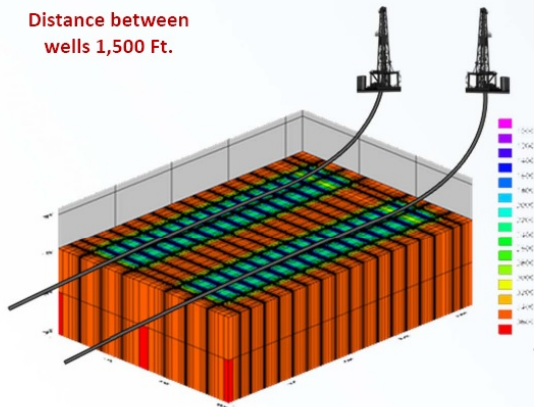
<sup>2</sup> Based on long lateral completions of over 6,000 ft with at least 30 days of production history past peak production as of 9/30/2013

## Concentration of Resources Drives Efficiencies

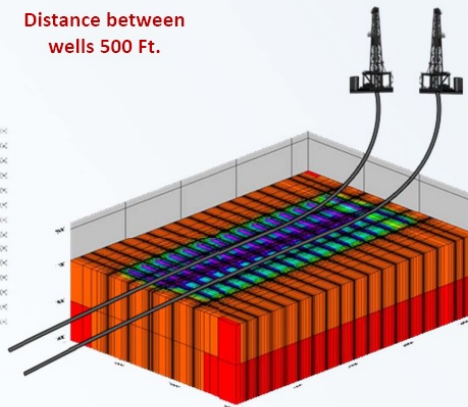


# Lateral Spacing Reservoir Simulation<sup>1</sup>

Distance between wells 1,500 Ft.



Distance between wells 500 Ft.



## Reservoir Modeling Goals

- Optimize economics
  - Maximize recovery
  - Minimize wells
- Plan with life-cycle in mind

***20-year reservoir drainage simulation supports 660-ft spacing for initial development phase***



<sup>1</sup> Reservoir simulations resulted from joint project with Halliburton



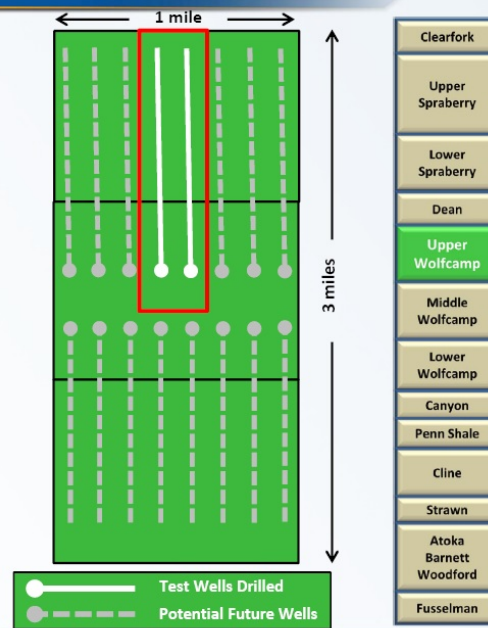
# Side-by-Side Conceptual Design

## Side-by-Side Design

- Two side-by-side wells both drilled in one zone
- Lateral lengths: 7,000 – 7,500 feet
- Spacing: 660 feet

## Objectives

- Optimize spacing
- Minimize interference
- Frac design and monitoring
- Frac optimization

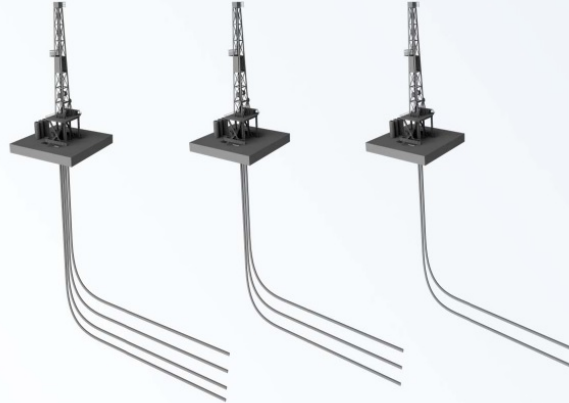


## Muti-Zone Development in 2014

### **Stacked Lateral Development**

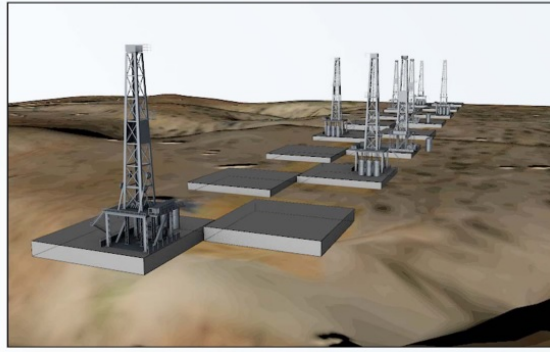
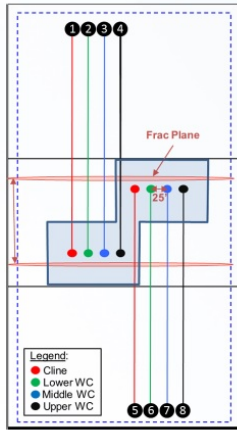
**4-Stacked 3-Stacked 2-Stacked**  
**28 wells 18 wells 14 wells**

- 2014 program expected to drill ~60 stacked laterals utilizing 20 multi-well pads
- First 3-well stacked pad completed in 2013
  - two-stream, 24-hour production rate of 3,318 BOE/D<sup>1</sup>



<sup>1</sup> Drilled into the Upper, Middle and Lower Wolfcamp

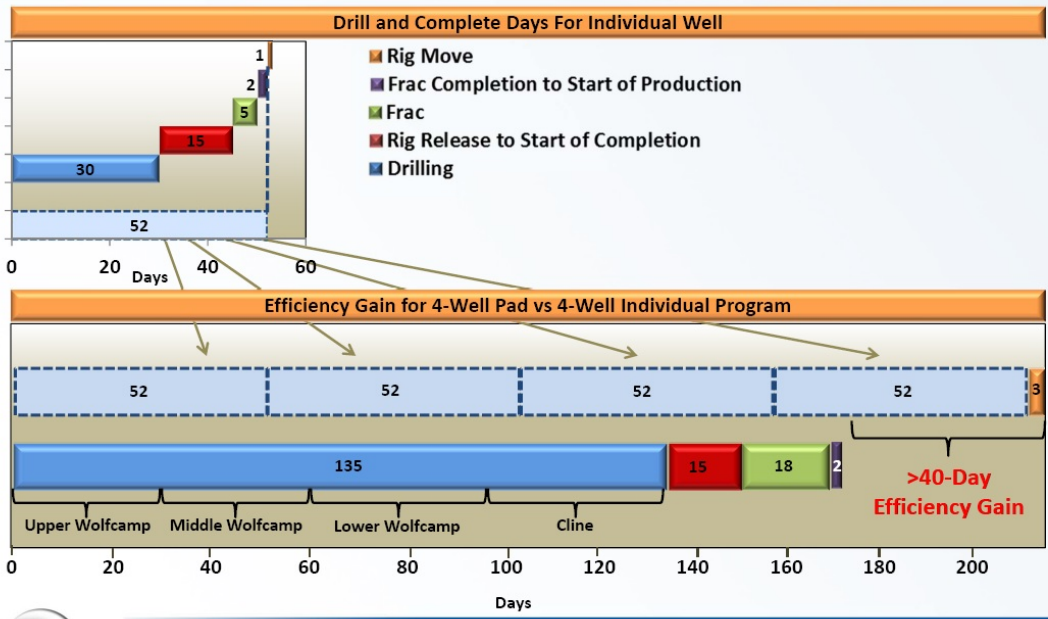
# Offset Pad Development



***Offset pad configuration provides the optimal geometry to fully drain a section***

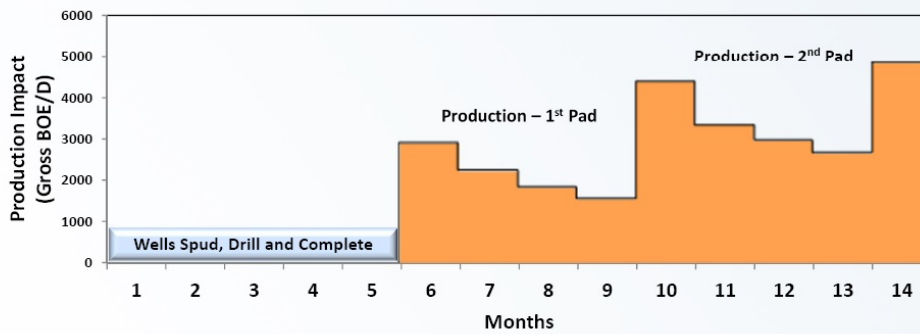


# Efficiency Gains from Pad Drilling



## Production Impact From Multi-Well Pads













One Rig, 4-Well Stacked Pad Drilling Example

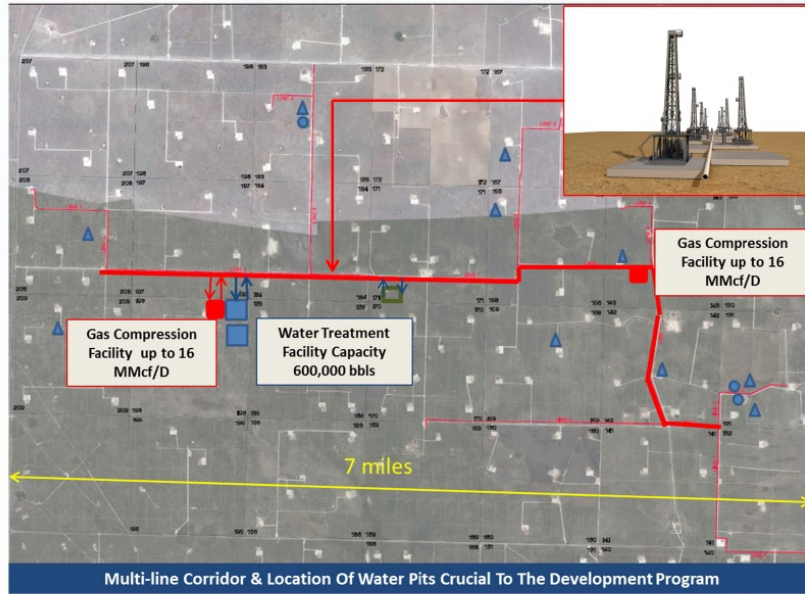


- Creates lumpy production
- Up to 123-day delay in initial production vs an individual well
- Balancing production impact and pad drilling efficiencies
- 2014 development will include 2, 3 and 4-well pad drilling



# Fluid / Gas Management Plan

-  Water well pit
-  Water wells
-  Well pad
-  Multi-line corridor
-  Oil gathering
-  Off lease wtr disposal
-  HP gas lift/HP Sale
-  LP gas gathering
-  Rig fuel gas
-  Flowback water
-  Treated water
-  SR/ET water



Multi-line Corridor & Location Of Water Pits Crucial To The Development Program



## Cost Savings Initiatives

- Pad drilling efficiencies
- Multi-well frac efficiencies
- Negotiated service cost reductions
  - Coil
  - Pumping services
  - Wireline logging
  - Frac tank
- Optimizing drilling and completions operations
- Proppant sourcing improvements
- Reduction in transportation cost
- Improved water management
- Integration of new technologies
- Reduction in chemical usage
- Natural gas fueling

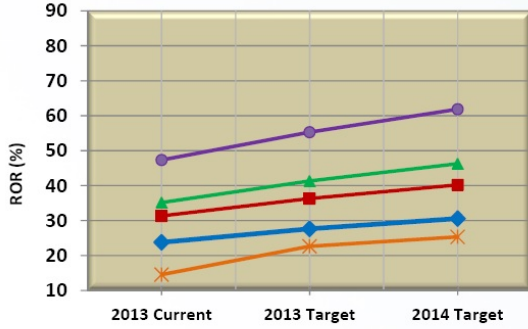
**Anticipated  
10%-15% cost  
reduction**



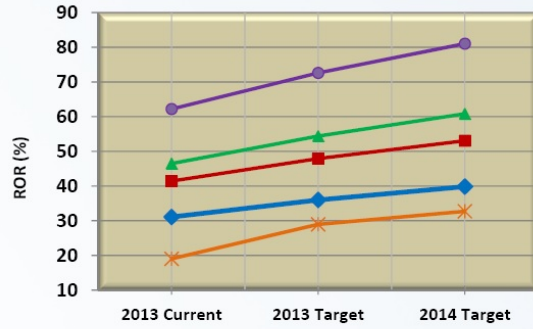
# ROR vs Well Capital Costs

Permian Well Costs					
(\$MM)	Upper Wolfcamp	Middle Wolfcamp	Lower Wolfcamp	Cline	Vertical
2013 YTD	\$7.8	\$7.8	\$8.5	\$9.0	\$2.4
2013 Target	7.2	7.2	7.9	8.4	2.0
2014 Target	6.8	6.8	7.5	8.0	1.9

\$90/Bbl and \$3.75/Mcf



\$100/Bbl and \$3.75/Mcf



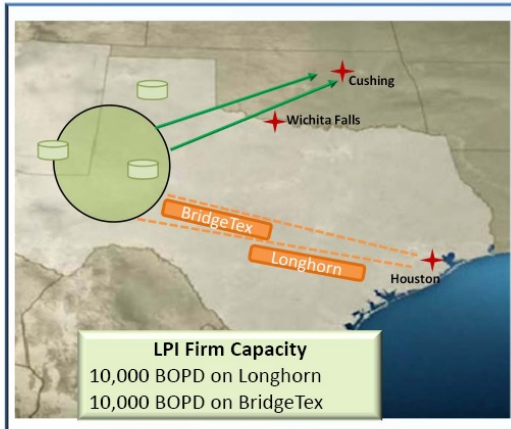
—●— Upper WC   
 —▲— Middle WC   
 —■— Lower WC   
 —◆— Cline   
 —✱— Vertical Wolfberry





# Sales Price Diversification

Firm transportation out of the Permian

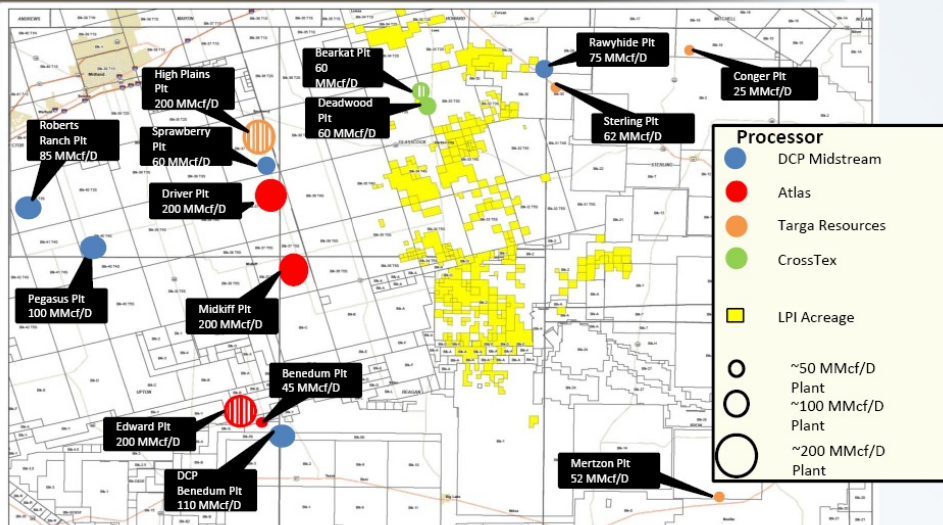


- Existing Refinery
- Existing Pipelines
- New Pipelines and Additions

- 10,000 BOPD committed to Longhorn, increasing annually to >23,000 BOPD over 5 years
  - Eliminates Mid/Cush basis differential
  - Benefit from **LLS** Gulf Coast pricing premium to WTI
- 10,000 BOPD committed to BridgeTex (Mid 2014)
  - Eliminates Mid/Cush basis differential
  - Benefit from **Brent** pricing premium to WTI
- Balance sold in local Midland market
  - No long-term or volumetric commitments
  - Basis hedges in place to protect Mid/Cush basis risk



# Processing Plant Capacity With LPI Direct Connectivity

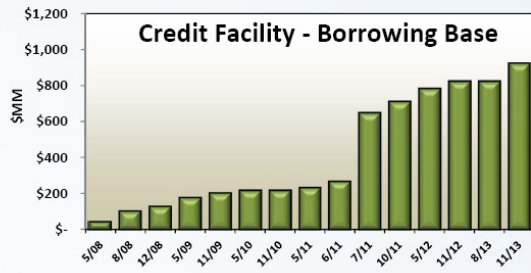


Laredo has direct connectivity to 4 processors (12 plants) with 1.1 Bcf/D capacity. Capacity by Q3-14 to increase to over 1.5 Bcf/D with addition of Atlas' Edward Plant, CrossTex's Bearkat Plant and Targa's High Plains Plant.

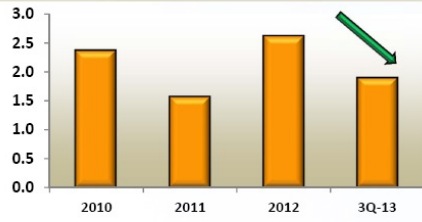


# Preserving Financial Flexibility

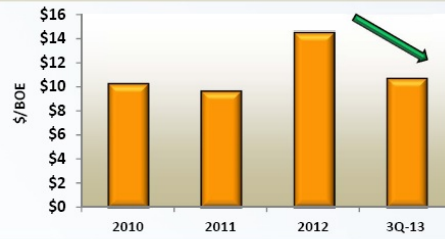
- ~\$1.1 billion of liquidity
- Growing borrowing base
- No near-term maturities
- Strong financial metrics



Debt (less cash) / Adjusted EBITDA<sup>1</sup>

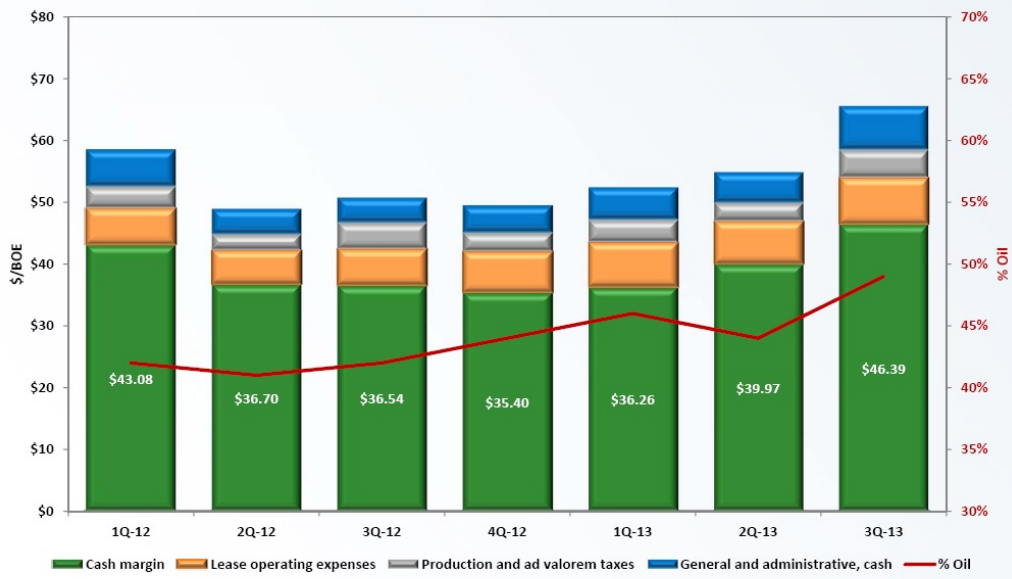


Debt (less cash) / Proved Developed Reserves<sup>2</sup>



<sup>1</sup> Estimated Permian EBITDA for 3Q-2013, annualized  
<sup>2</sup> Internal estimate, 2-stream as of 6/30/2013, pro-forma for Anadarko Basin sale

## Expanding Cash Margin



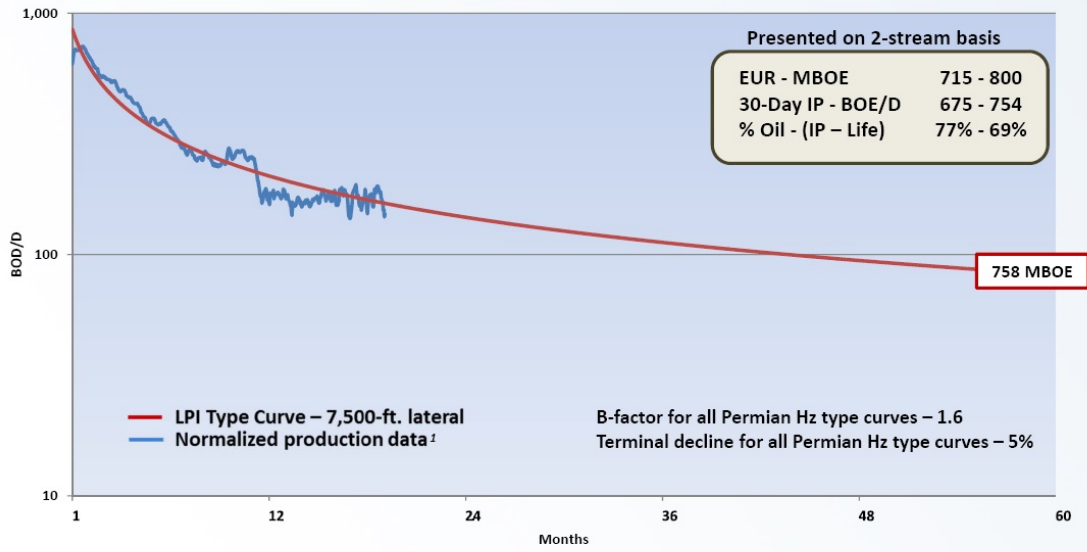


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## Appendix

# Hz Upper Wolfcamp Type Curve

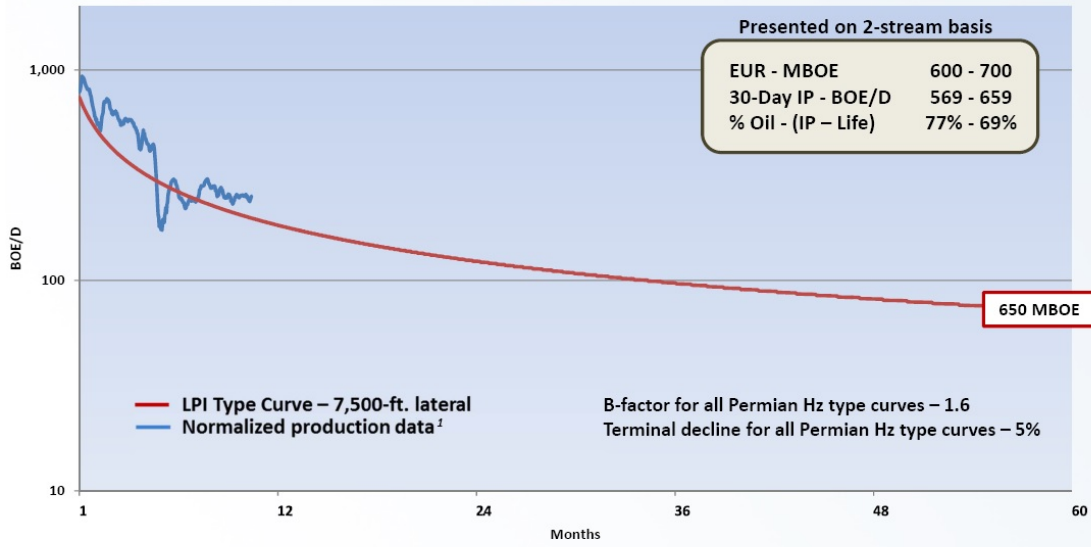
Type Curve – 25 long lateral wells presented



<sup>1</sup> Excludes Sterling County

# Hz Middle Wolfcamp Type Curve

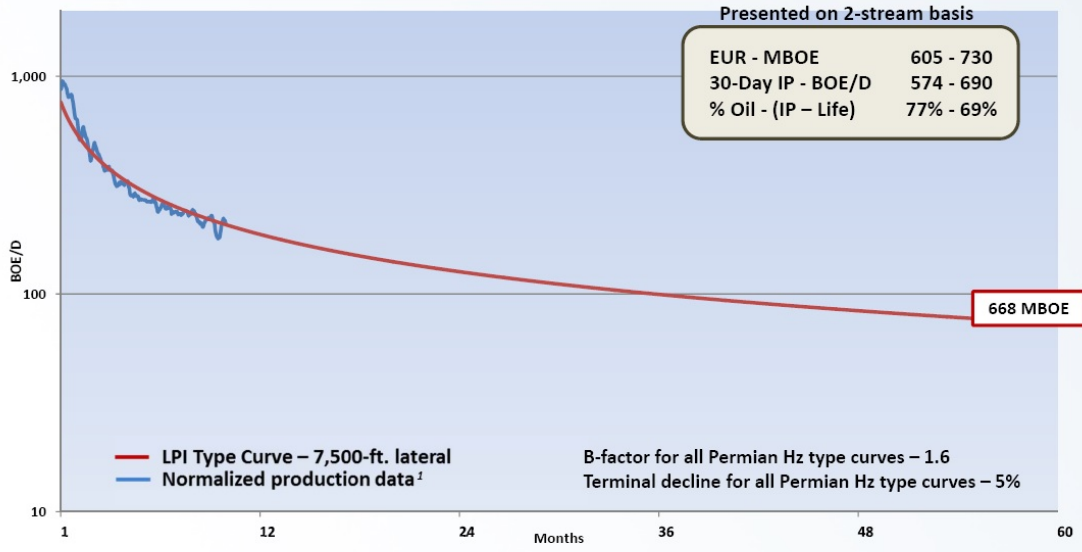
Type Curve – 4 long lateral wells presented



<sup>1</sup>Excludes Sterling County

# Hz Lower Wolfcamp Type Curve

Type Curve – 4 long lateral wells presented

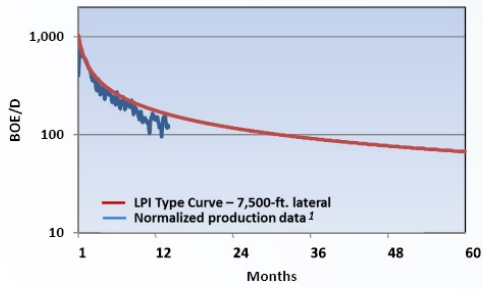


<sup>1</sup> Excludes Sterling County

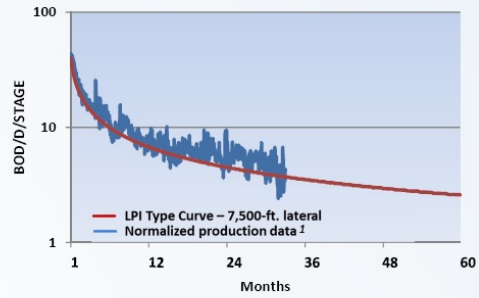


# Hz Cline Type Curve

5 Long lateral wells presented



BOEPD/Frac Stage normalized data from 36 wells presented



EUR - MBOE	550 - 690
30-Day IP - BOE/D	663 - 828
% Oil - (IP - Life)	77% - 69%

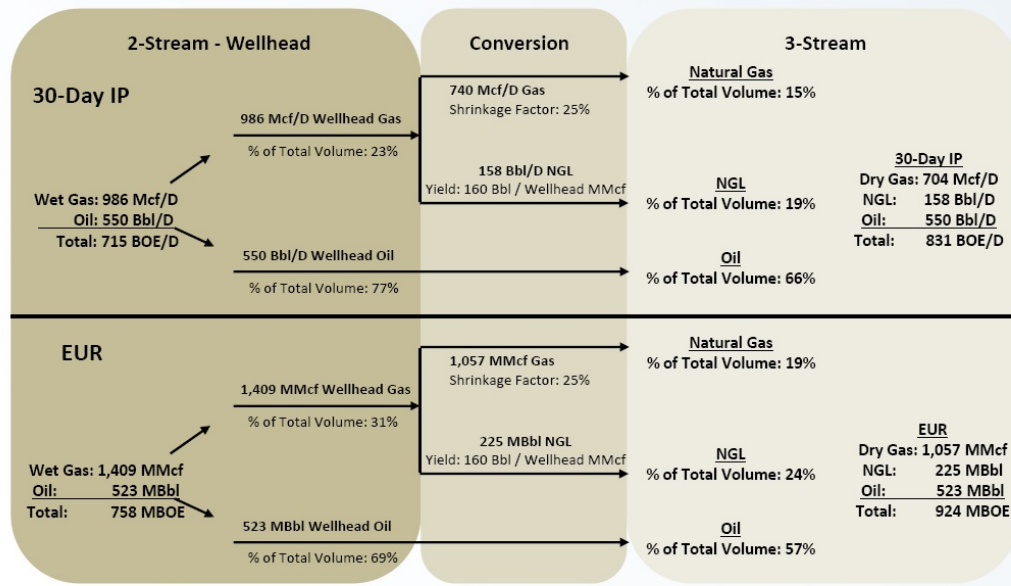
B-factor for all Permian Hz type curves - 1.6  
Terminal decline for all Permian Hz type curves - 5%

Presented on 2-stream basis

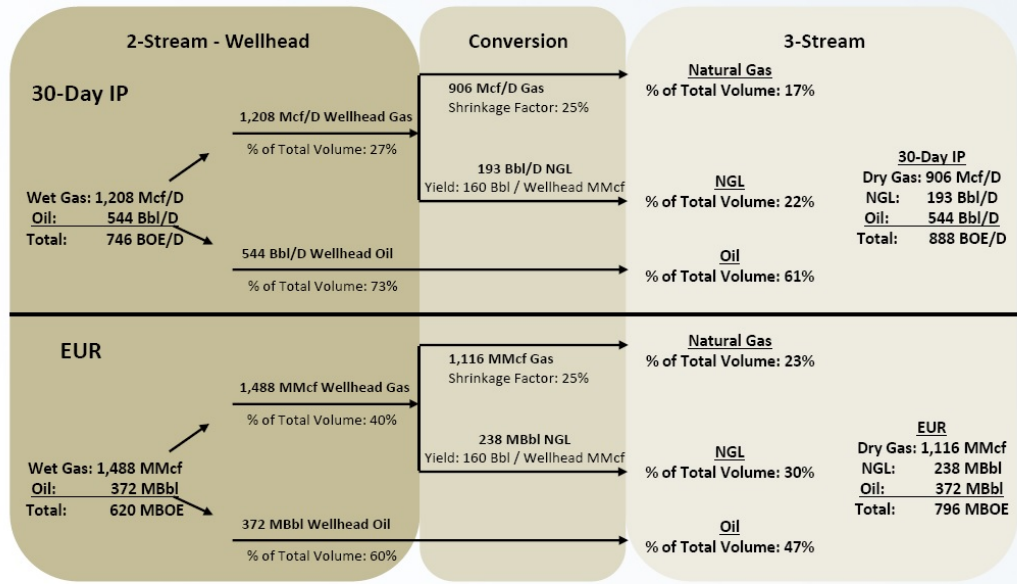


<sup>1</sup> Excludes Sterling County

# Sample Wolfcamp Hz 3-Stream Conversion



# Sample Cline Hz 3-Stream Conversion



## Commodity Hedges

### OIL

	<u>2013</u>	<u>2014</u>	<u>2015</u>
<b>Puts</b>			
Hedged Volume (Bbls)	270,000	540,000	456,000
Weighted Average Price (\$/Bbl)	\$65.00	\$75.00	\$75.00
<b>Swaps</b>			
Hedged Volume (Bbls)	816,000	2,157,496	-
Weighted Average Price (\$/Bbl)	\$100.08	\$94.44	-
<b>Collars</b>			
Hedged Volume (Bbls)	192,000	726,000	2,219,500
Average Floor Price (\$/Bbl)	\$79.38	\$75.45	\$79.43
Average Ceiling Price (\$/Bbl)	\$121.67	\$129.09	\$101.83

### NATURAL GAS

	<u>2013</u>	<u>2014</u>	<u>2015</u>
<b>Collars</b>			
Hedged Volume (MMBtu)	3,160,000	9,600,000	8,160,000
Average Floor Price (\$/MMBtu)	\$3.01	\$3.00	\$3.00
Average Ceiling Price (\$/MMBtu)	\$4.69	\$5.50	\$6.00



As of September 30, 2013

## Adjusted EBITDA Reconciliation

(in thousands)	Three months ended September 30,		Nine months ended September 30,	
	2013	2012	2013	2012
Net income (loss) .....	\$ 12,543	\$ (7,384)	\$ 49,764	\$ 49,826
Plus:				
Interest expense .....	24,929	24,423	76,221	60,781
Depreciation, depletion and amortization .....	55,982	63,925	187,346	176,145
Write-off of deferred loan costs .....	1,502	—	1,502	—
Bad debt expense .....	653	—	653	—
(Gain) loss on disposal of assets, net .....	(607)	1	(548)	9
Total (gain) loss on derivative financial instruments, net .....	9,838	24,156	2,732	(4,658)
Cash settlements of matured commodity derivative financial instruments, net .....	(3,975)	7,078	888	20,901
Cash settlements received for early terminations of derivative financial instruments, net .....	5,366	—	5,366	—
Premiums paid for derivative financial instruments that matured during the period(1) .....	(2,925)	(2,349)	(8,681)	(6,786)
Non-cash stock-based compensation .....	5,876	2,767	13,556	7,602
Income tax expense (benefit) .....	10,369	(4,154)	31,970	28,027
Adjusted EBITDA .....	\$ 119,551	\$ 108,463	\$ 360,769	\$ 331,847





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