

The Permian Basin – Evolution of a Perfect Petroleum System

February 2018



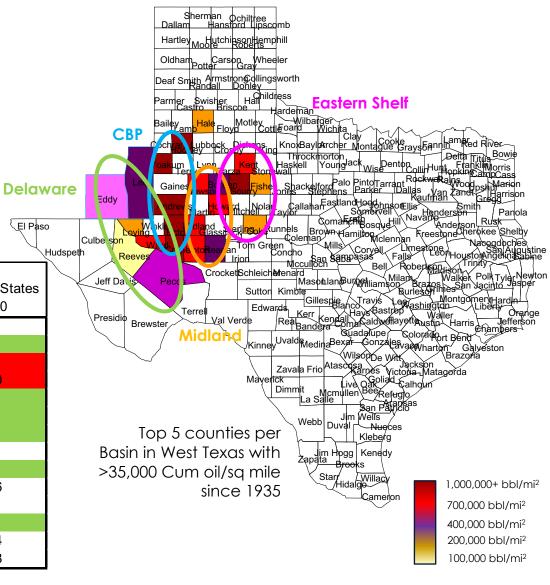
Please see the end of this presentation for important disclosures

Agenda

- Texas and West Texas history and Petroleum System
- The Three Phases of Permian Horizontal Drilling
 - > Midland Basin
 - > Delaware Basin
 - > CBP ?
- Summary

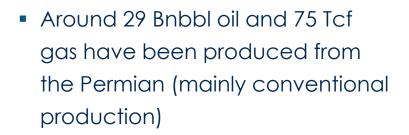
- High quality unconventional plays typically occur beneath prolific historic conventional fields
- Texas has produced a third of the US conventional oil reserves and the Permian Basin of West Texas has produced about 40% of Texas's oil

	Onshore	Top Onshore	Onshore		Top Onshore	Rank of
	production 1862-	States %	States 1862-	Onshore production	States %	Onshore States
State	2016 BnBbl	1862-2016	2016	pre 1961 BnBbl	1862-1960	1862-1960
U.S. Onshore Total	196.2			65.1		
Texas	68.4	34.4%	1	23.4	36.0%	1
California	28.8	14.5%	2	12.0	18.5%	2
Alaska	18.3	9.2%	3	0.0	0.0%	20
Louisiana	16.3	8.3%	4	5.3	8.1%	3
Oklahoma	8.5	4.3%	5	3.1	4.8%	4
Wyoming	7.6	3.8%	6	1.9	2.9%	7
Kansas	6.5	3.3%	7	3.1	4.8%	4
New Mexico	5.9	3.0%	8	1.3	1.9%	8
North Dakota	4.2	2.1%	9	0.3	0.4%	16
Illinois	3.5	1.8%	10	2.1	3.2%	6
Colorado	2.7	1.3%	11	0.5	0.8%	11
Utah	2.0	1.0%	12	0.4	0.7%	14
Montana	1.5	0.8%	13	0.2	0.3%	18



KIMMERIDGE

Permian Basin: The Perfect Petroleum System



- Unconventional exploration and development has now started in the basin with the Midland then the Delaware and now the CBP attracting attention
- The Permian is a Perfect
 Petroleum System as it has
 generated significant amounts of
 hydrocarbons concentrated in a
 few giant conventional fields

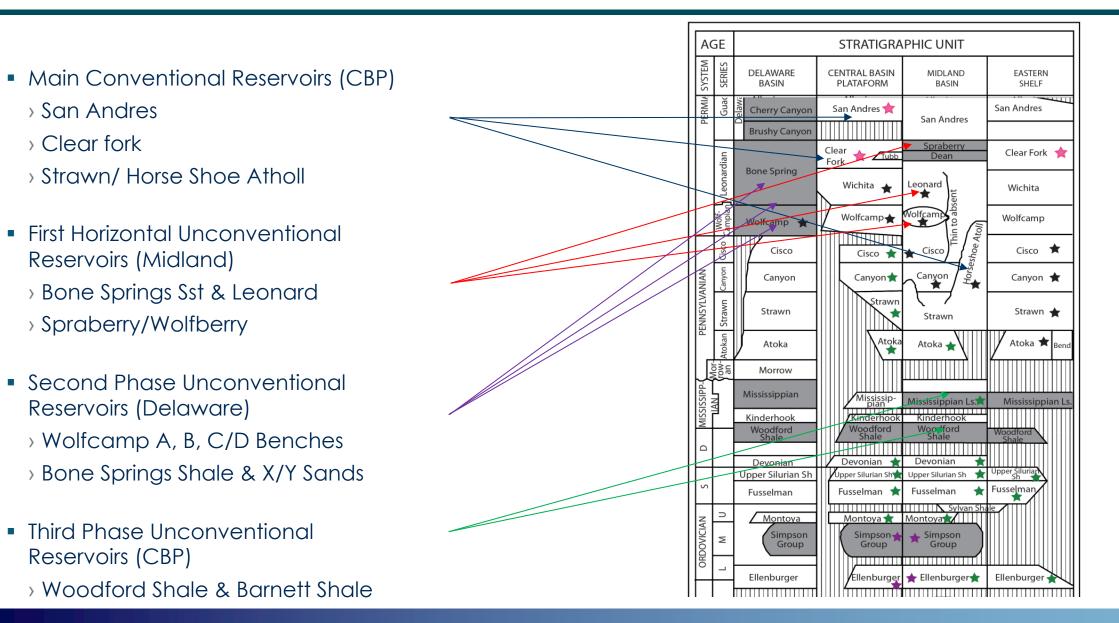


AAAA >500; AAA 200-500; AA 100-200; A 50-100; B 25-50; C 10-25 (mmboe)



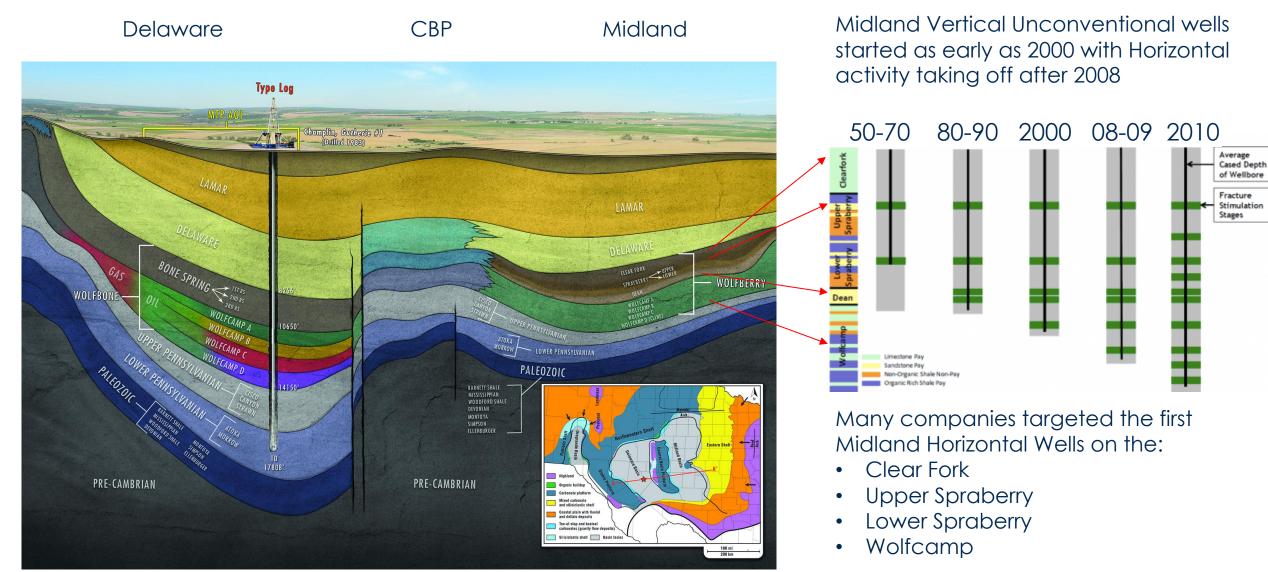


Permian Basin: Overview and Key Unconventional Reservoir Intervals



Permian Basin: Midland Basin – The First Phase of Horizontal Drilling

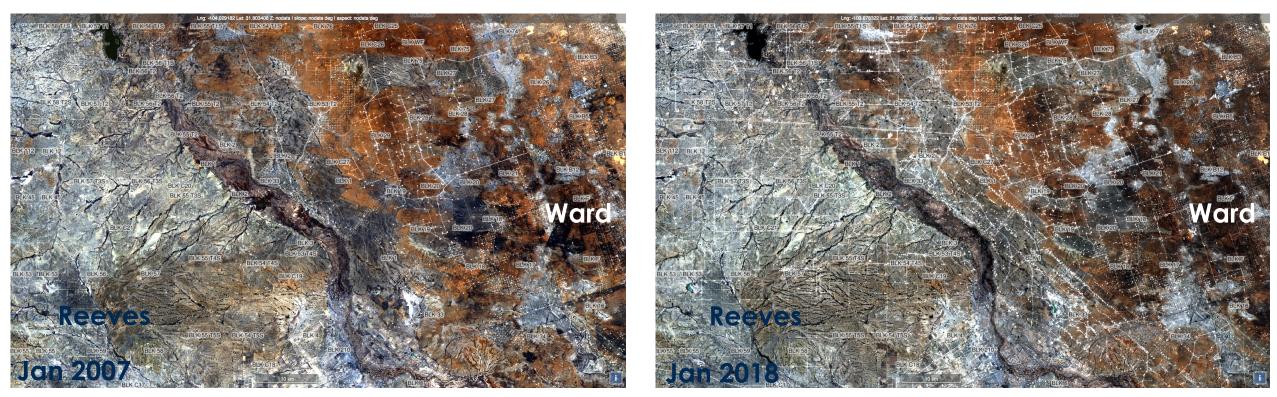


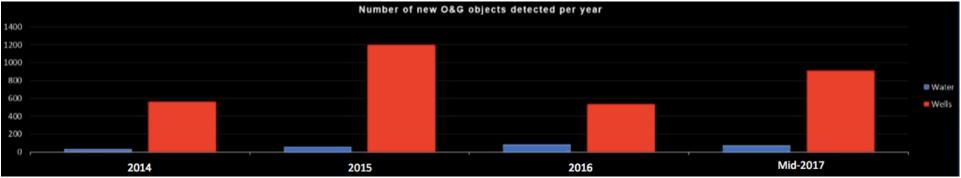


Source: Pioneer Natural Resources



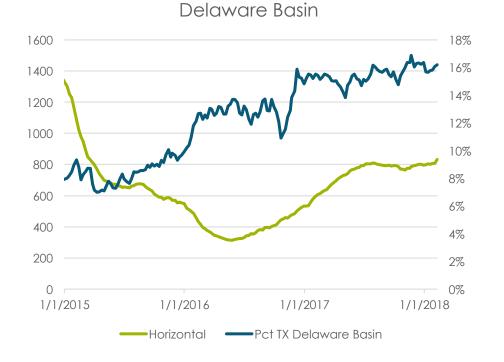
Permian Basin: Delaware Basin – The Second Phase of Horizontal Drilling



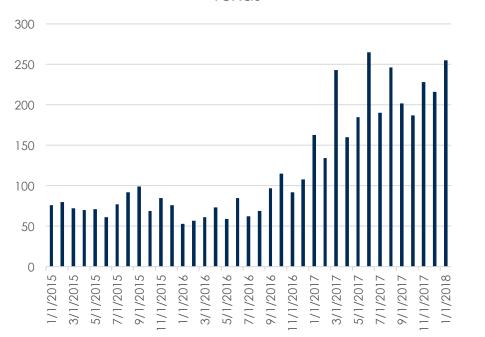


Source: Terrabotics Kimmeridge Study

- The core Delaware Basin horizontal rig count is 119 rigs, which represents 32% of all rigs in the Permian
- In 2016 68 horizontal permits were approved per month. In the past six months, the average is over 200.

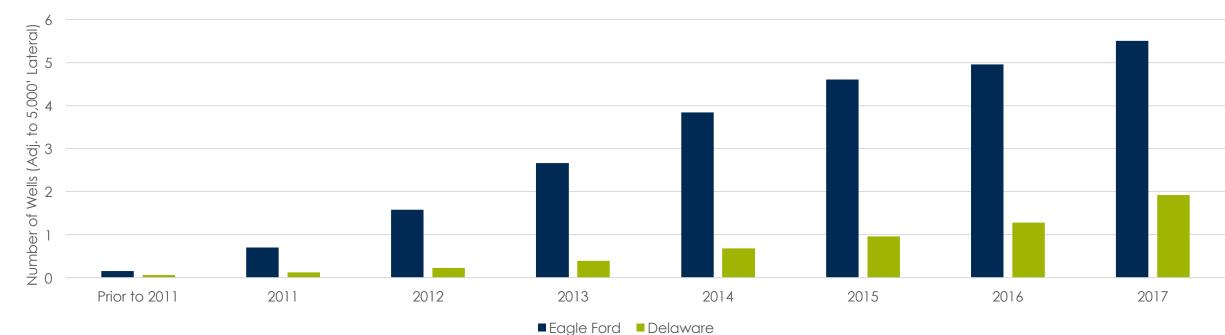


US Horizontal Rigs and Pct in Texas



Permits by Month - Delaware Basin Texas **KIMMERIDGE**

- The multi-play stacked Delaware Basin is not yet downspaced in 2017, just under two horizontal wells per section on average were drilled across the Basin's core area.
- By comparison, the single-play stacked Eagle Ford is characterized by more than five horizontals per section on average.

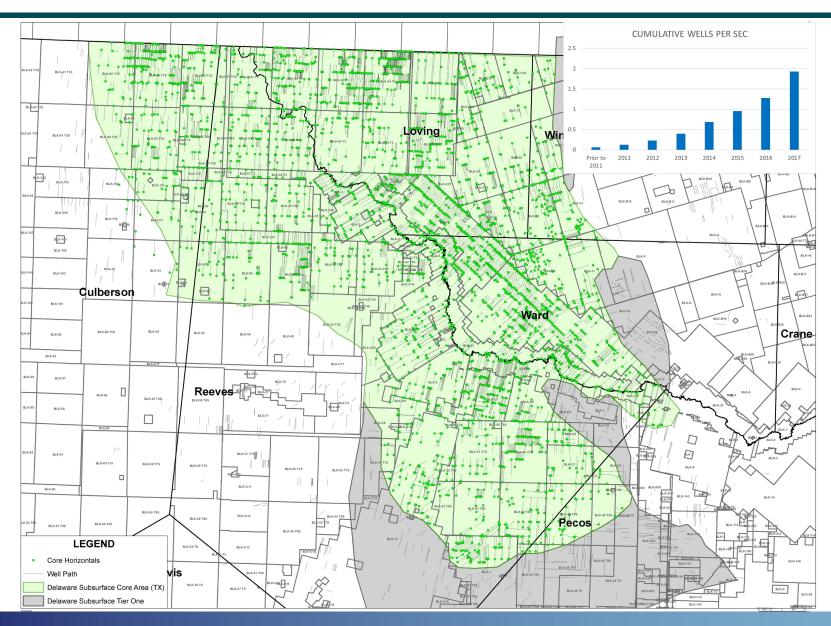


Cumulative Wells Per Section





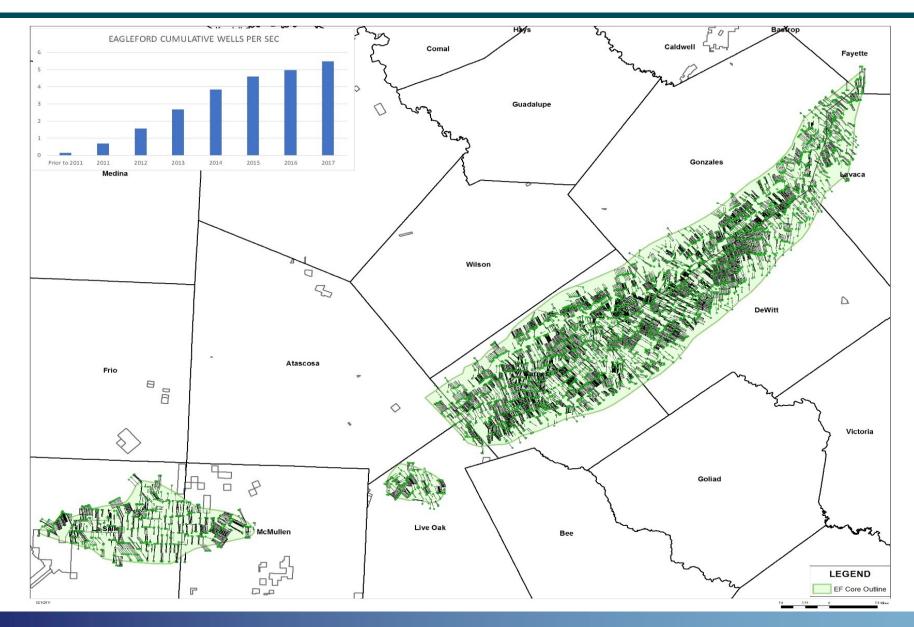
Permian Basin: Delaware Basin – Core Area with Drilling Density



| 10



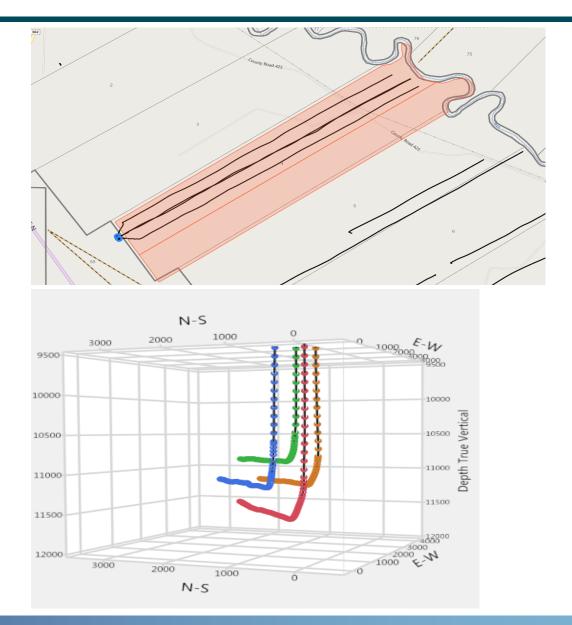
Permian Basin: Comparison to Eagle Ford – Core Area with Drilling Density



Permian Basin: Delaware Basin - Downspacing Example #1

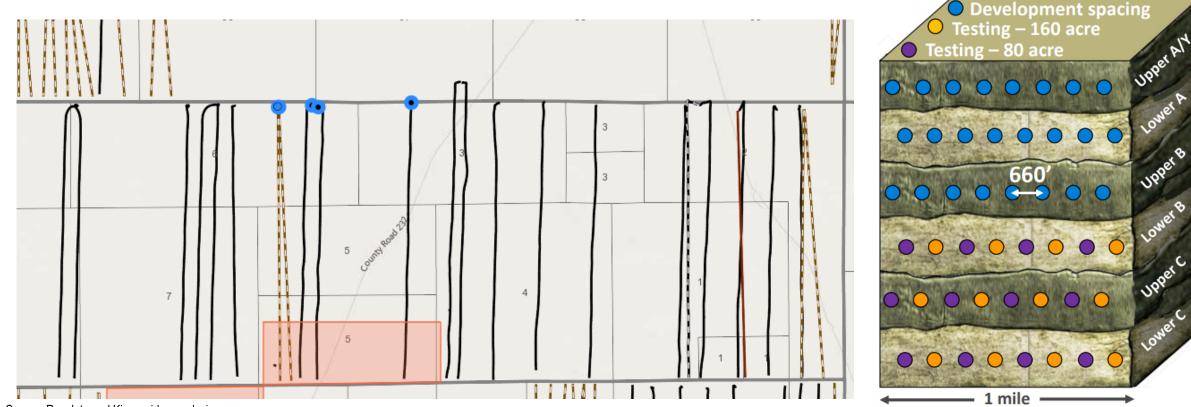


- Downspacing on certain sections has begun
- The Energen Quarterback well pad consists of four wells, three in the Wolfcamp A (in an upper A/lower A stagger) and one in the Wolfcamp B.
- The section is irregularly shaped, but the spacing is indicative of eight wells per section (one mile by one mile), per horizon:
 - > 16 wells in the Wolfcamp A due to the stagger pattern (eight upper A and eight lower A)
 - > Eight wells in the Wolfcamp B





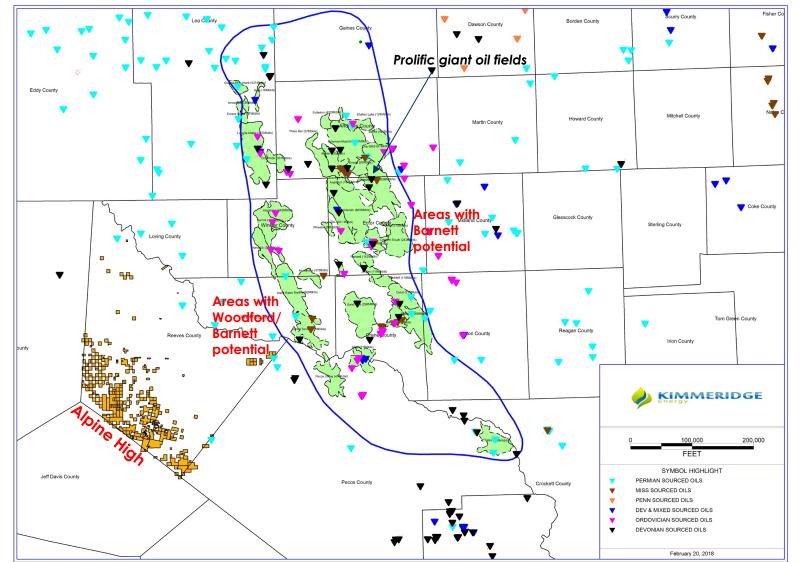
- Permian Basin: Delaware Basin Downspacing Example #2
- Resolute is drilling eight wells/section/horizon in Block C21
- Resolute plans to drill 16 Wolfcamp A wells per section and eight Wolfcamp B wells per section. In total, they
 plan to drill 36-48 wells per section



Source: Resolute and Kimmeridge analysis



- Woodford and Barnett are both older than the Permian aged Wolfcamp
- Sparse data and analysis on source rock oil typing has lead to uncertainty over the origin of oils in CBP fields
- However, geochemical analysis definitively indicates mainly in-situ sourcing from the prolific, oil-mature source rocks of the Woodford, Barnett and Simpson.
- The thickness of the Woodford/STACK play is around 2,000-3,000ft

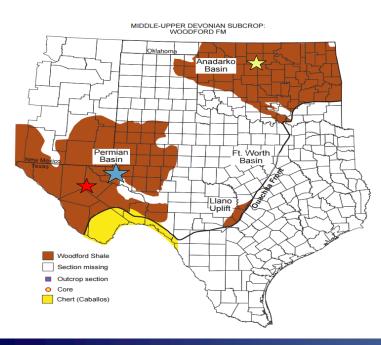


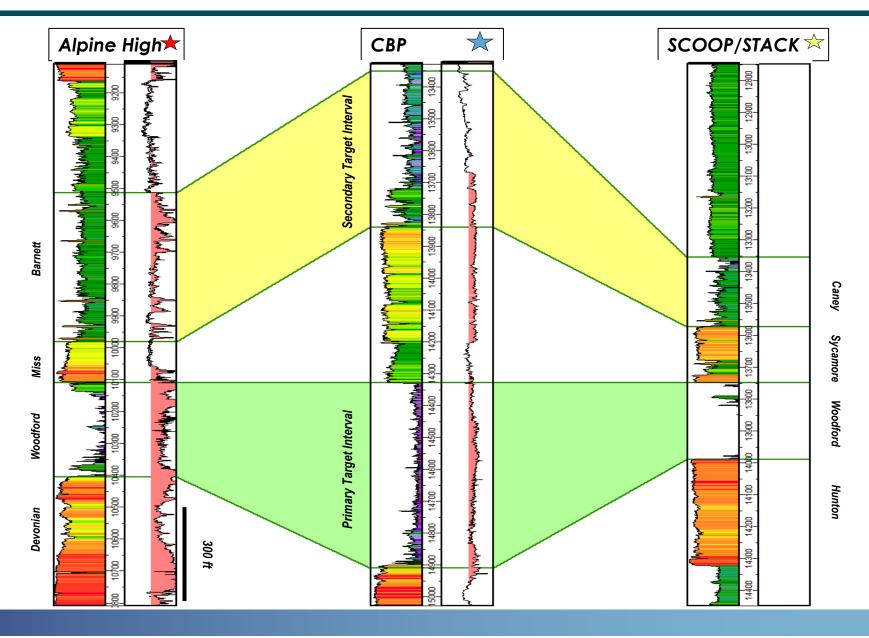
KIMMERIDGE



Permian Basin: Woodford/STACK Analogue – Southern Delaware Basin and CBP

 The Alpine High play in the Delaware and the Woodford Barnett play in the CBP exhibits comparable depositional environments to the proven Woodford play in Oklahoma



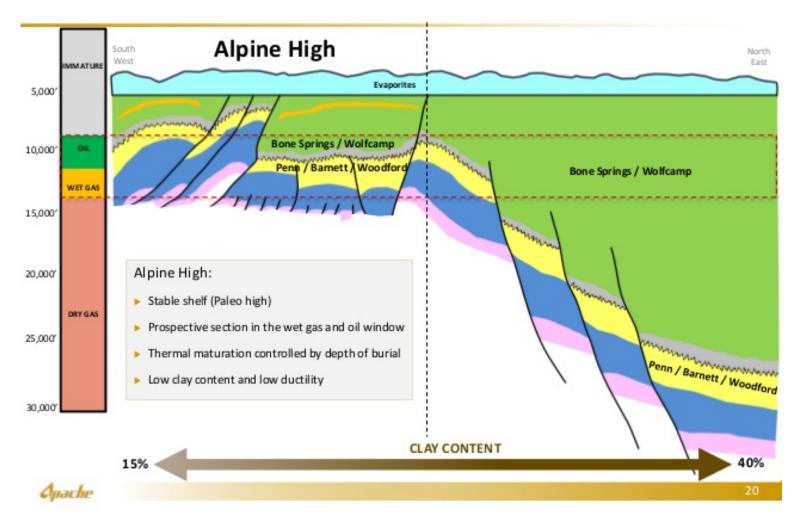




Permian Basin: Woodford/STACK – Southern Delaware Basin Alpine High

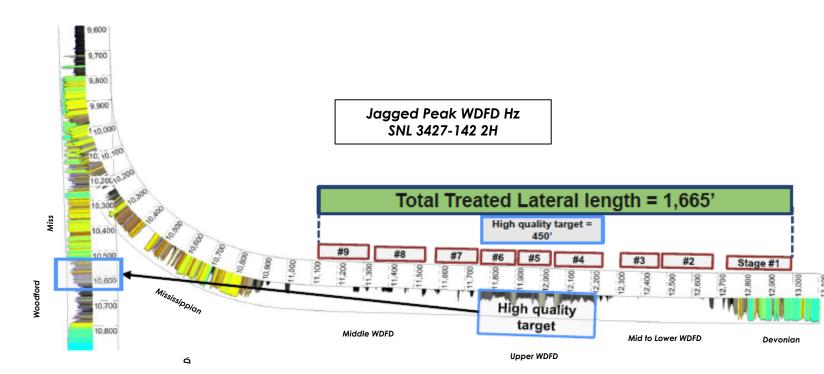
- In the Alpine High, Apache claims multiple targets throughout different hydrocarbon phases
- Apache has broken out the Alpine High into three different maturity regimes
 - Northern Flank More prospective for liquids in the 3rd Bone and WFCP
 - Central Mostly wet gas production in Barnett and Woodford
 - Southern Flank Less mature but mostly wet gas to this point

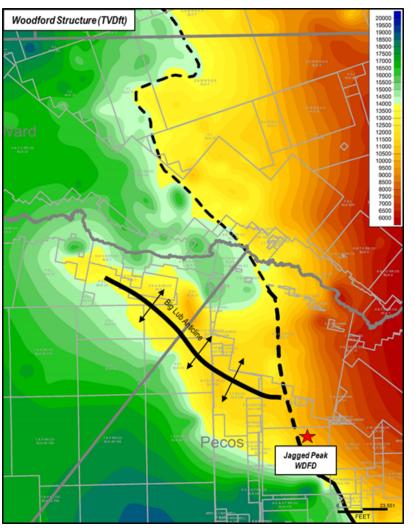
GEOLOGY OF THE SOUTHERN DELAWARE BASIN



Permian Basin: Woodford/STACK – CBP Jagged Peak Well

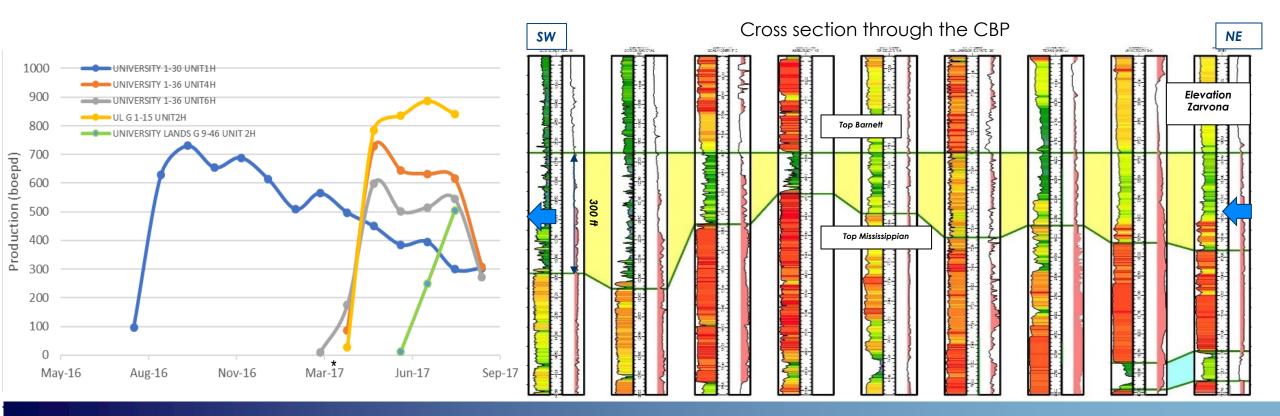
- Jagged Peak ("JAG") drilled a deep pilot hole for a Wolfcamp horizontal (SNL 3405-142 2H) that was cored in October 2016
- The lateral was only ~2,300' (1,665' stimulated), but the well had a reported IP30 of 227 boepd/1,000' (normalized to the 1,665 stimulated feet)







Their oldest well is a single section lateral that had an IP90 ~124 boepd/1000'







- The Permian has had a long history of conventional production and represents a world-scale hydrocarbon basin made up of four sub-basins
- The Permian is a Perfect Petroleum System in that it has significant oil reserves focused in a small number of giant fields sourced from a number of world class organic rich formations throughout the geologic record
- There have been two phases of rejuvenation in the basin from unconventional activity
 Initial the Midland Basin tested out the horizontal technology and is now mature
 the Delaware basin is the focus today and is in the development phase
- There may be a third phase emerging in the form of the Woodford/STACK concept in the Southern Delaware and the CBP
- There will likely be many more phases in the future



Disclosures

Offering by Fund Documents Only The material provided in this presentation is for informational purposes only. It does not constitute an offer to sell or a solicitation of an offer to buy any securities relating to any of the products referenced herein, notwithstanding that any such securities may be currently being offered to others. Any such offering will be made only in accordance with the terms and conditions set forth in the Offering Memorandum pertaining to such Fund. Prior to investing, investors are strongly urged to review carefully the Offering Memorandum (including the risk considerations described therein), the Subscription Agreement and all related Fund documents ("Fund Documents"), to ask such additional questions of the Investment Manager as they deem appropriate, and to discuss any prospective investment in the Fund with their legal and tax advisers. In the case of any inconsistency between the descriptions or terms in this presentation and the Fund Documents, the Fund Documents shall control. Fund securities shall not be offered or sold in any jurisdiction in which such offer, solicitation or sale would be unlawful until the requirements of the laws of such jurisdiction have been satisfied. No person has been authorized to give any information or to make any representation, warranty, statement or assurance not contained in the Fund Documents and, if given or made, such other information or representation, warranty, statement or assurance may not be relied upon.

Inherent Risks An investment in the Funds is speculative and involves a high degree of risk. Opportunities for withdrawal and transferability of interests are restricted, so investors may not have access to capital when it is needed. There is no secondary market for the interests and none is expected to develop. Leverage may be employed in the portfolio and the portfolio may be concentrated, which can make investment performance volatile. An investor should not make an investment unless it is prepared to lose all or a substantial portion of its investment. The fees and expenses charged in connection with this investment may be higher than the fees and expenses of other investment alternatives and may offset profits. There is no guarantee that investment objectives will be achieved. The past performance of the investment team should not be construed as an indicator of future performance. Kimmeridge Energy may modify its investment approach and portfolio parameters in the future in a manner which it believes is consistent with its overall investment objectives. This presentation is not intended for public use or distribution.

Forward Looking Statements This presentation contains "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995, Section 27A of the Securities Act and Section 21E of the Securities Exchange Act. Forward-looking statements give our current expectations or forecasts of future events. They include statements regarding our anticipated future operating and financial performance. Although we believe the expectations and statements reflected in these and other forward-looking statements are reasonable, we can give no assurance they will prove to have been correct. They can be affected by inaccurate assumptions, by inaccurate information from third parties, or by known or unknown risks and uncertainties. You should understand that the following important factors could affect the Fund's results and could cause those results or other outcomes to differ materially from those expressed or implied in the forward-looking statements relating to: (1) amount, nature, and timing of property acquisitions or capital expenditures; (2) the market for oil and gas acreage or properties; (3) drilling of wells and other planned exploitation activities; (4) timing and amount of future production of oil or gas; (5) quantities of discovered or probable, potential or proved reserves of oil or gas; (6) marketing of and market prices for oil, gas or oil or gas; (6) cash flow and ancicipated liquidity; (10) the timing, success and exploration and exploitation activities; (11) governmental regulation of the oil and gas industry; (12) environmental liabilities relating to potential pollution arising from our operations or the operations of acquirers of acreage positions we may purchase; (13) industry competition, conditions, performance and consolidation; (15) the availability of drilling rigs and other oilfield equipment and services; and (16) na

This presentation and all of the information contained in it, including without limitation all text, data, graphs, charts is the property of Kimmeridge Energy Management Company, LLC or its affiliates (collectively, "Kimmeridge"), or Kimmeridge's licensors, direct or indirect suppliers or any third party involved in making or compiling any information and is provided for informational purposes only.

The information has been derived from sources believed to be reliable but is not guaranteed as to accuracy and does not purport to be a complete analysis of any security, company or industry involved. The user of the information assumes the entire risk of any use it may make or permit to be made of the information. NONE OF THE INFORMATION PROVIDERS MAKES ANY EXPRESS OR IMPLIED WARRANTIES OR REPRESENTATIONS WITH RESPECT TO THE INFORMATION (OR THE RESULTS TO BE OBTAINED BY THE USE THEREOF), AND TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, EACH INFORMATION PROVIDER EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES (INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF ORIGINALITY, ACCURACY, TIMELINESS, NON-INFRINGEMENT, COMPLETENESS, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE) WITH RESPECT TO ANY OF THE INFORMATION.