




US Unconventional Play Advances and Impacts

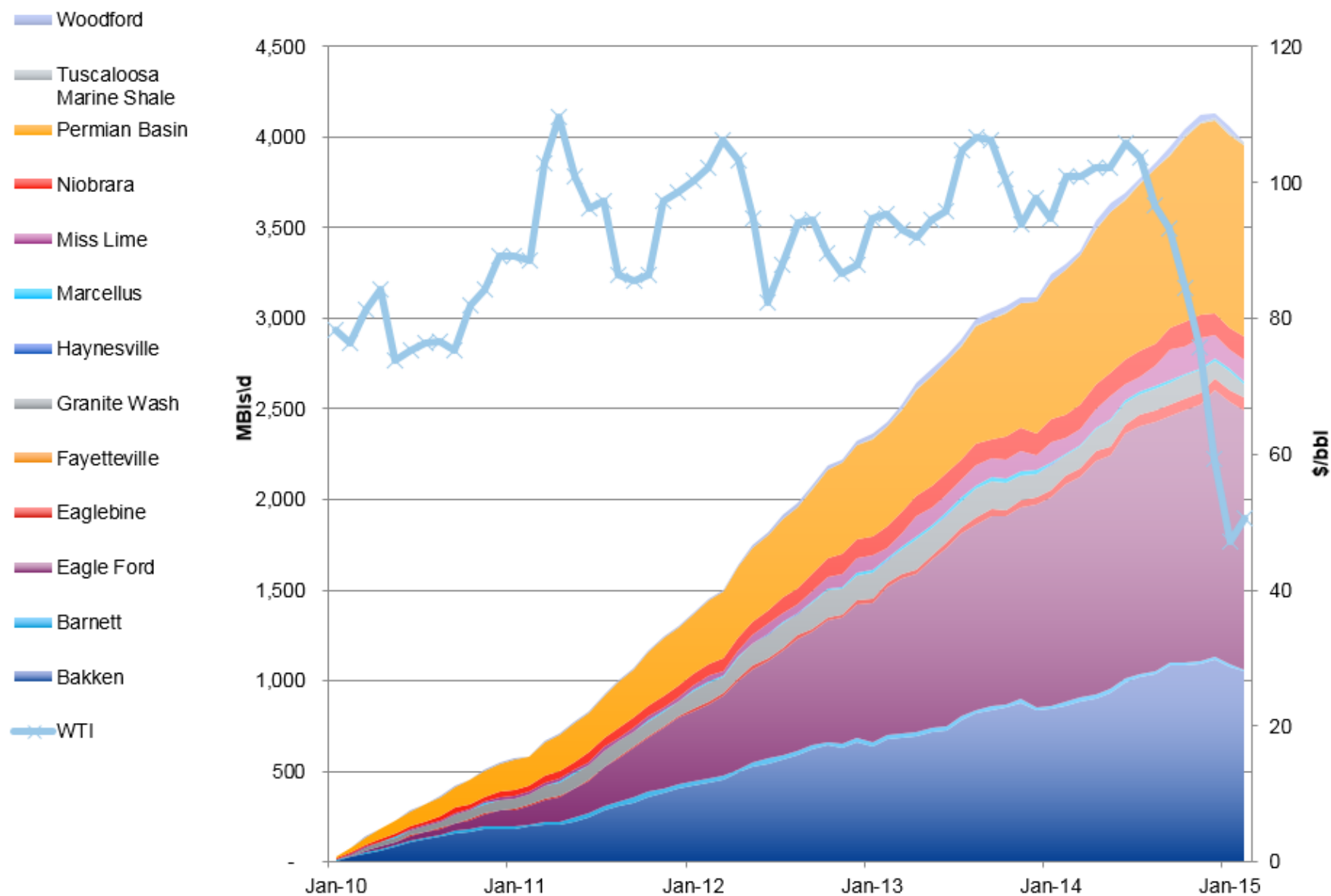
Corey Rhoden, Senior Vice President

August 2015

The background of the slide is a photograph of an oil pumpjack in a vast, golden field under a hazy, sunset sky. The pumpjack is positioned on the left side of the frame, and its shadow is cast onto the field. The field is a mix of yellow and orange hues, suggesting dry grass or crops. The sky is a gradient of light orange and grey, with some wispy clouds.

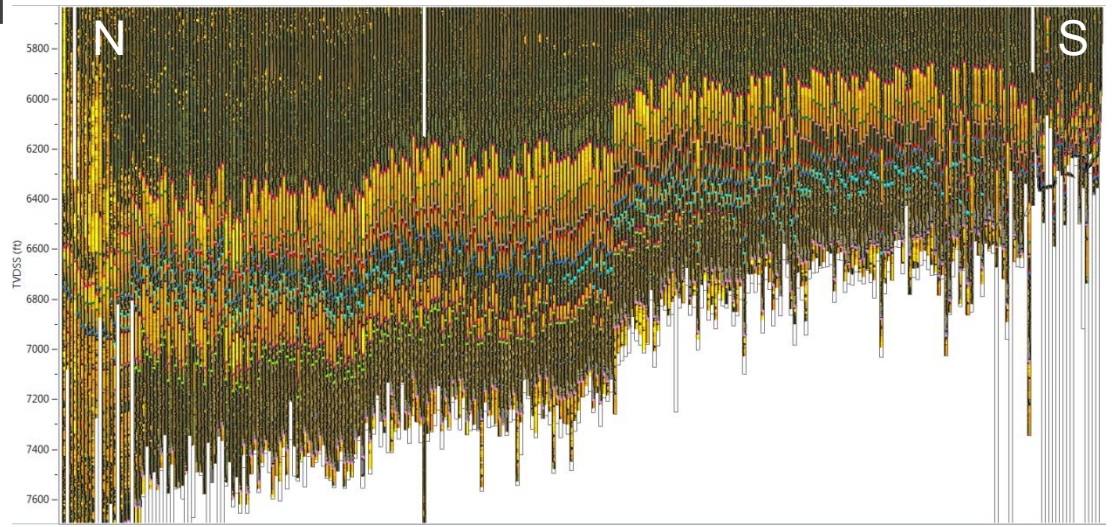
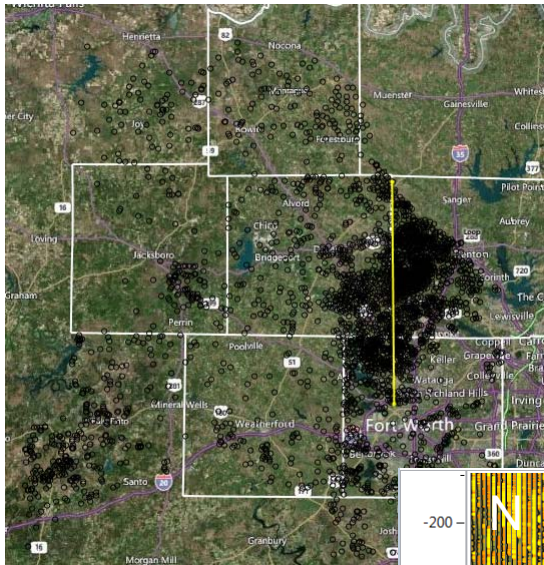
DRILLINGINFO is a leading, data-powered
SAAS company empowering the Oil & Gas
industry with intelligence and analytics
needed to succeed.

Oil Production From US Shale Plays

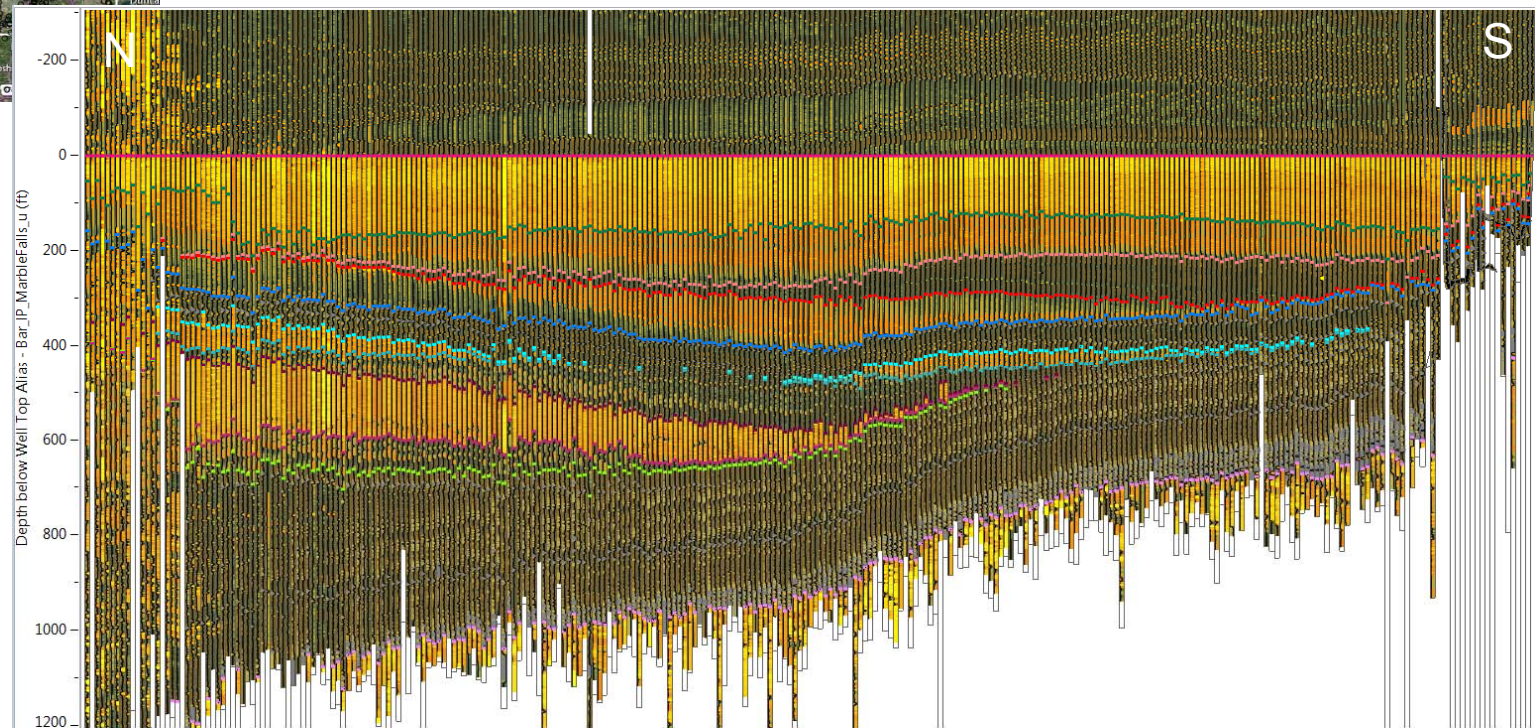


U.S. SHALES: WHAT IS BREAK-EVEN?

Strike (N-S) Cross-section

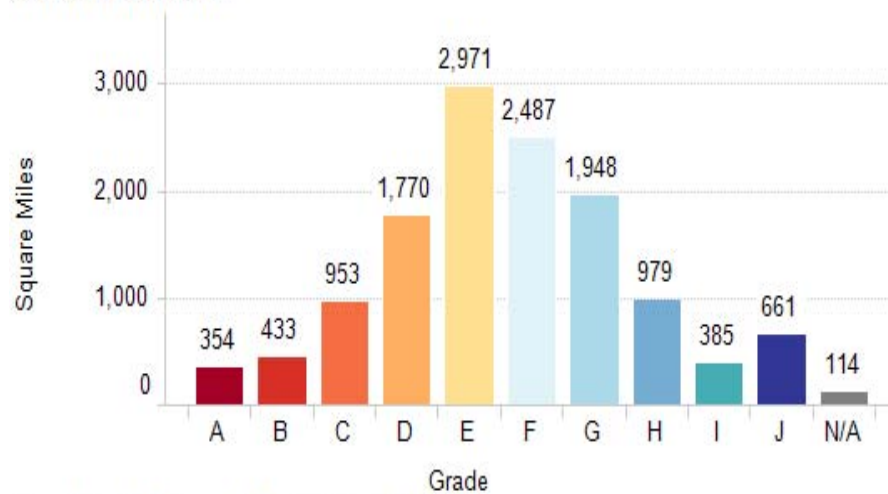


Flattened on
Top of Marble
Falls

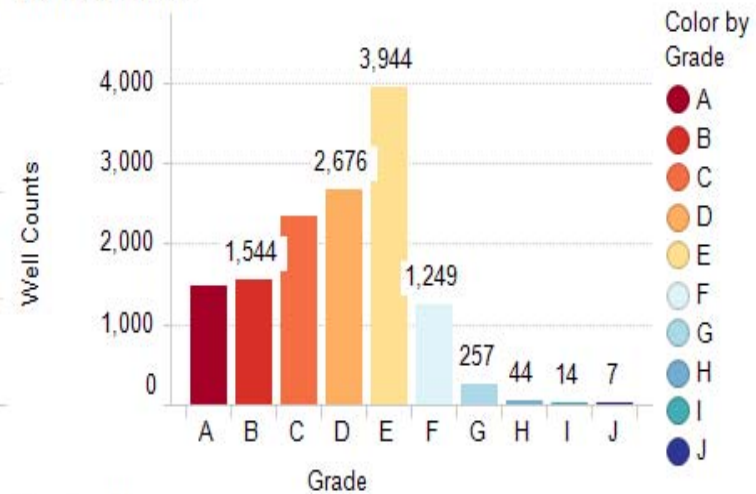


EAGLE FORD ACREAGE QUALITY BREAKDOWN

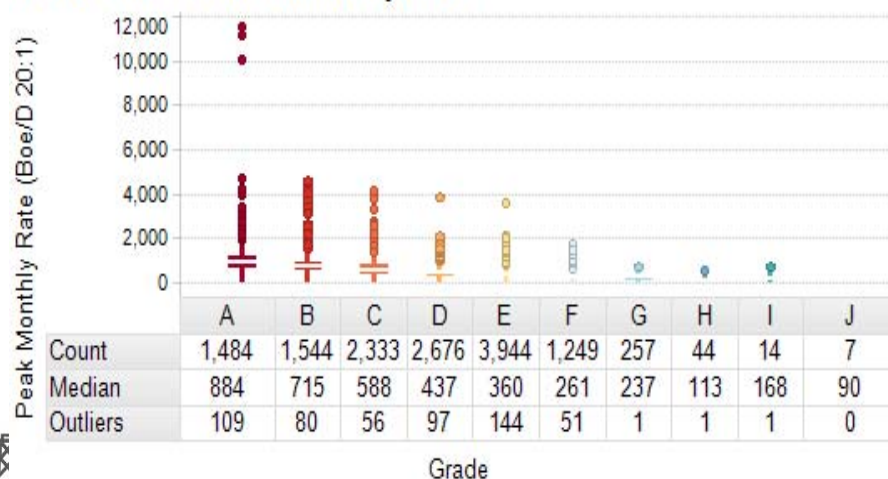
Grid Cell Distribution



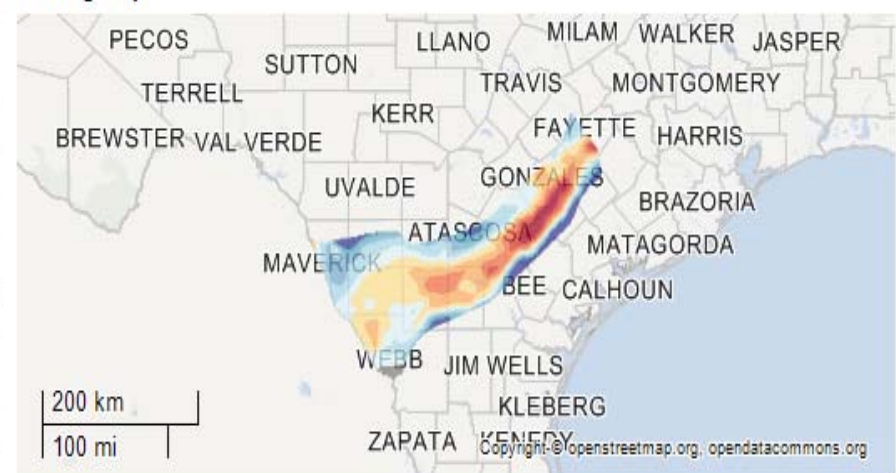
Well Distribution



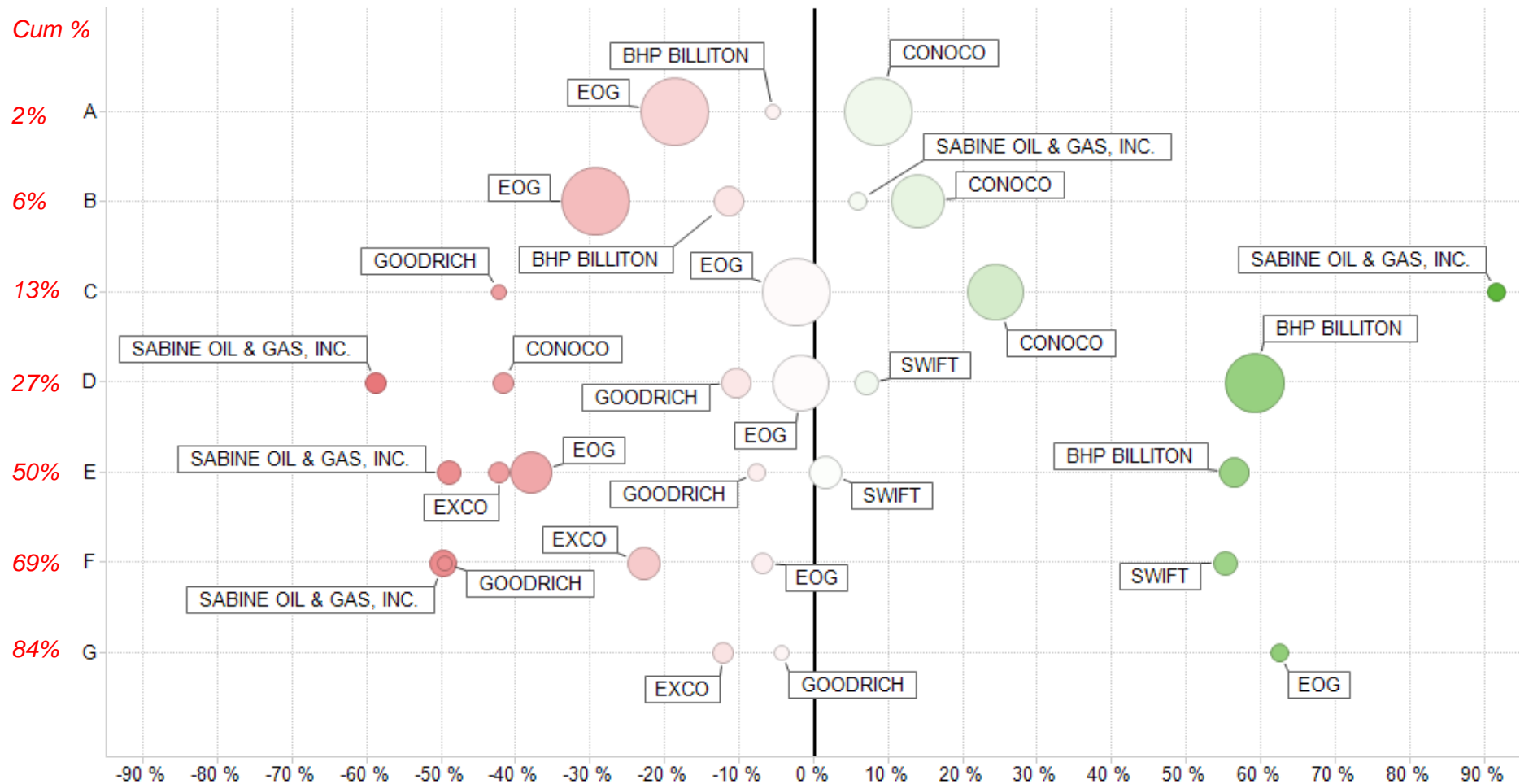
Box Plots Of Observed Peak Rate By Grade



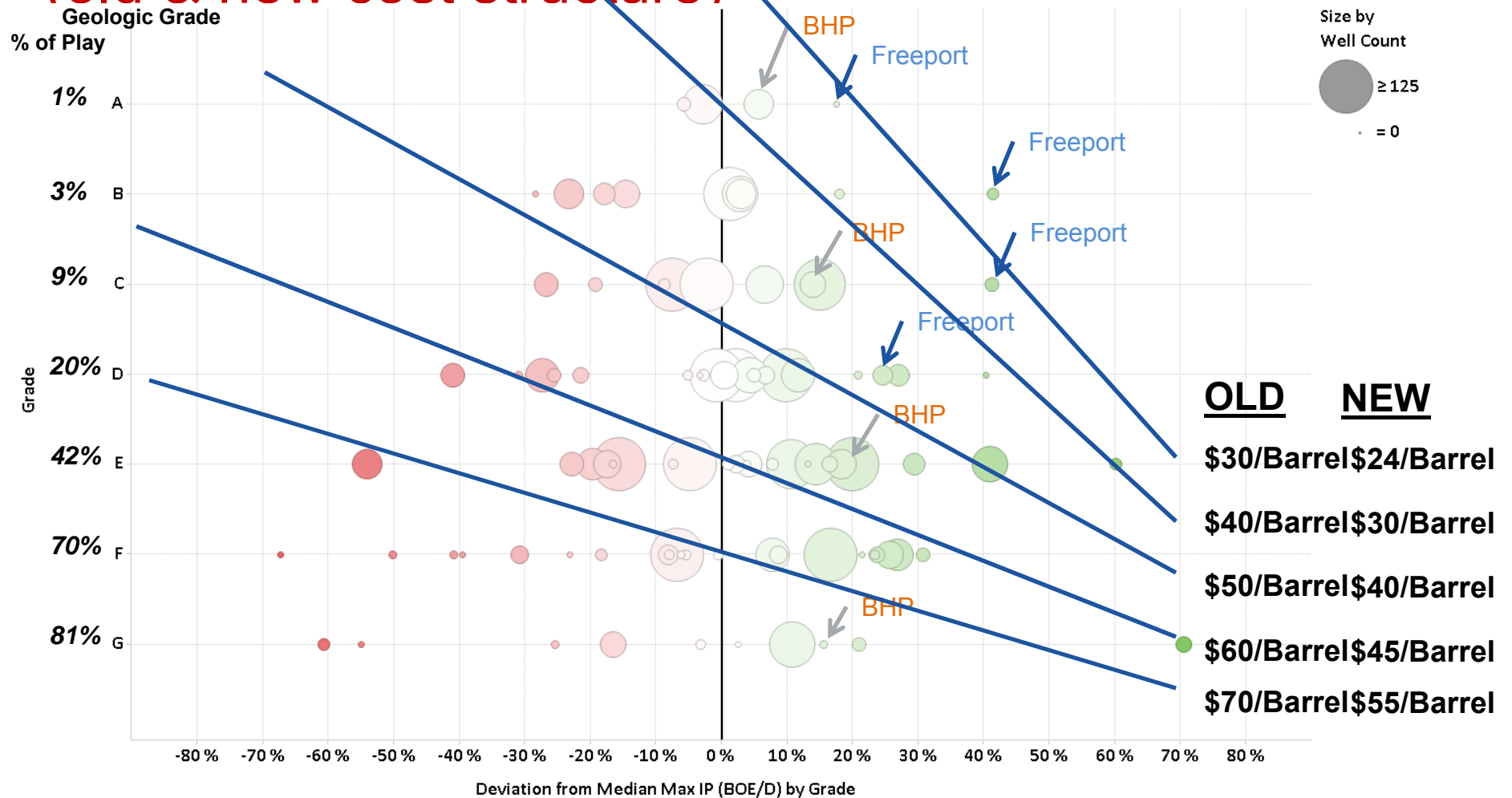
Grading Map



Eagle Ford: Horizontal Wells, 12 month cum boe 6:1

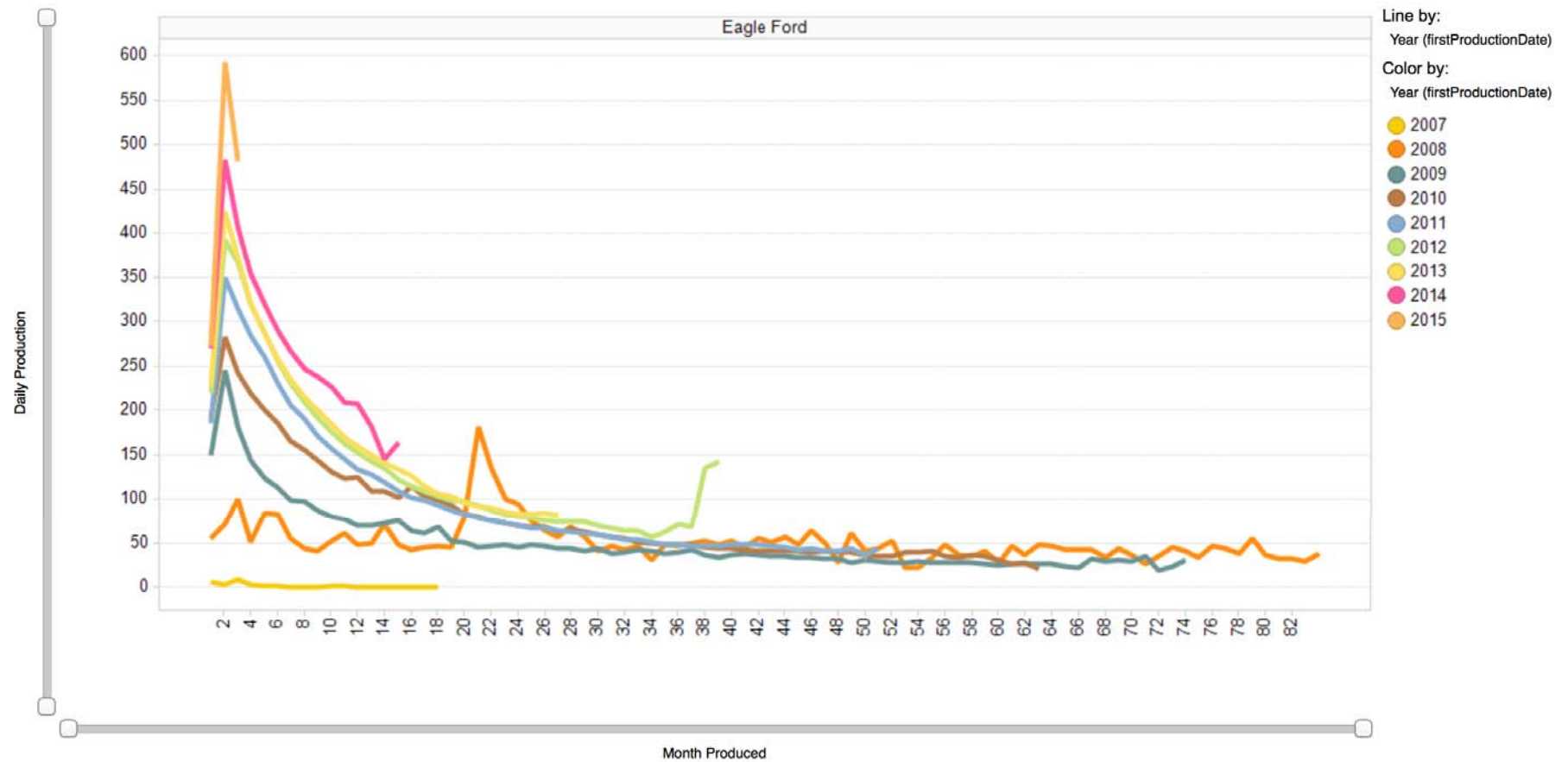


Eagle Ford Operator Performance Differential (old & new cost structure)

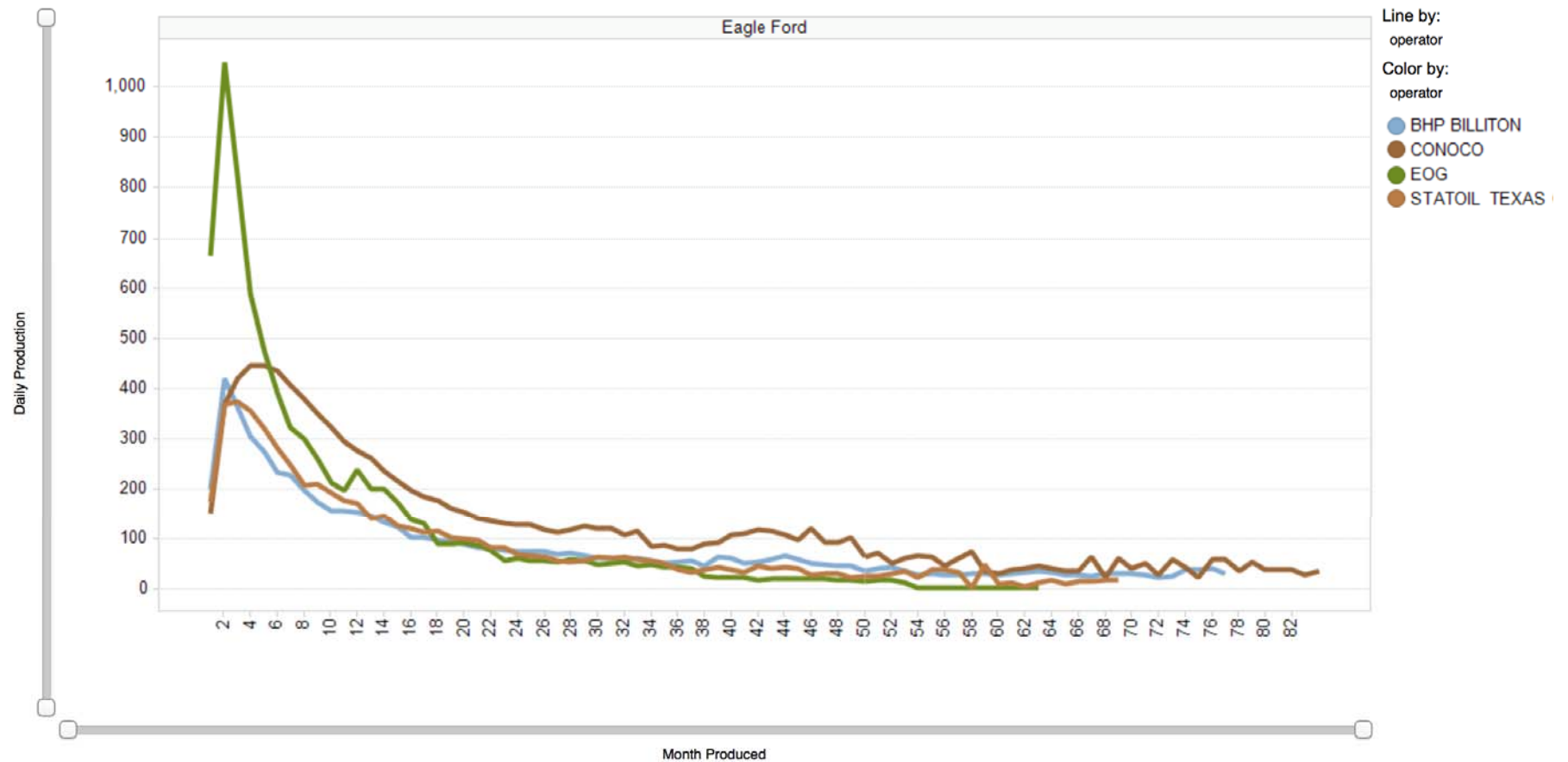


Source: DI Analytics, Deviation based on Max IP BOE/D 20:1 basis

EAGLE FORD TYPE CURVES BY VINTAGE

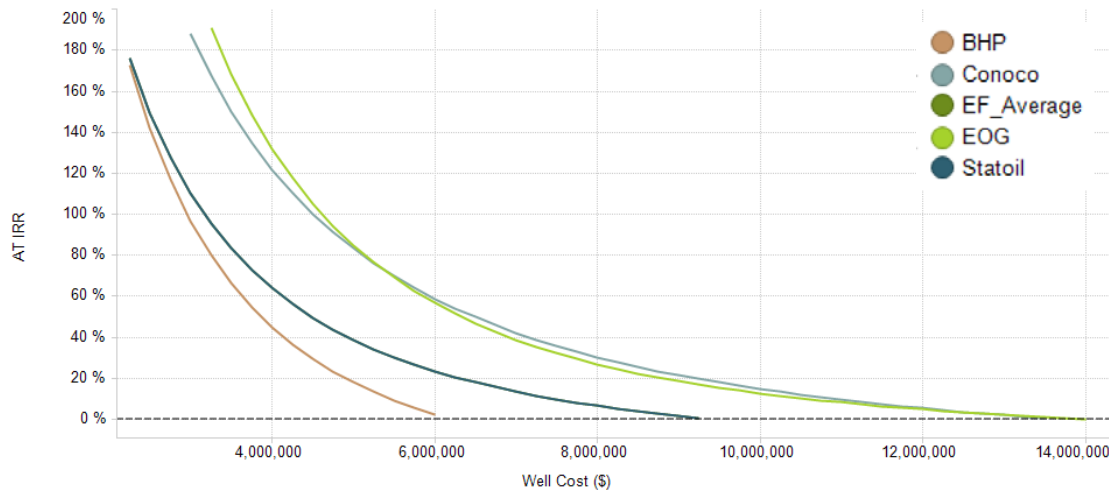


EAGLE FORD OPERATOR TYPE CURVES



EAGLEFORD OPERATORS

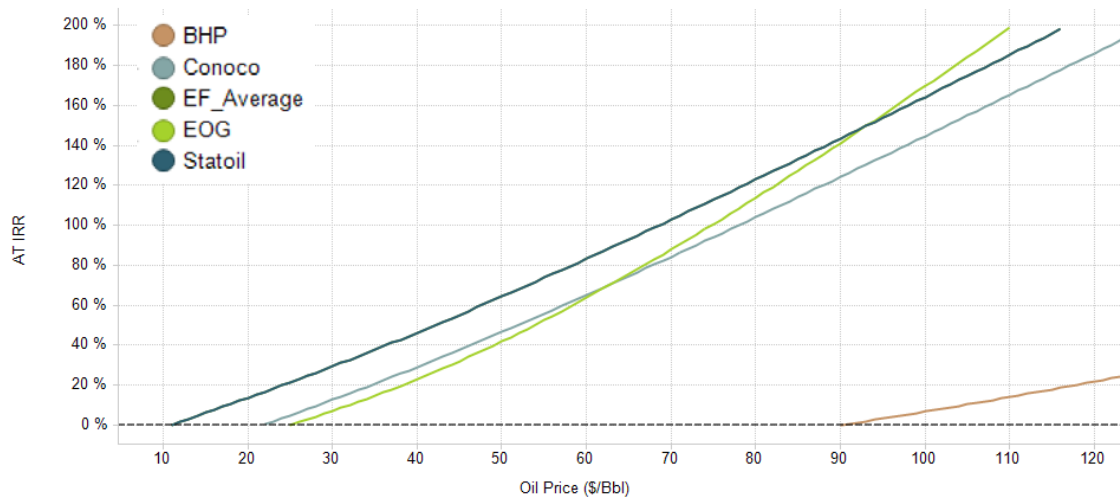
Well Cost Sensitivities



Operator: Payout vs. EUR

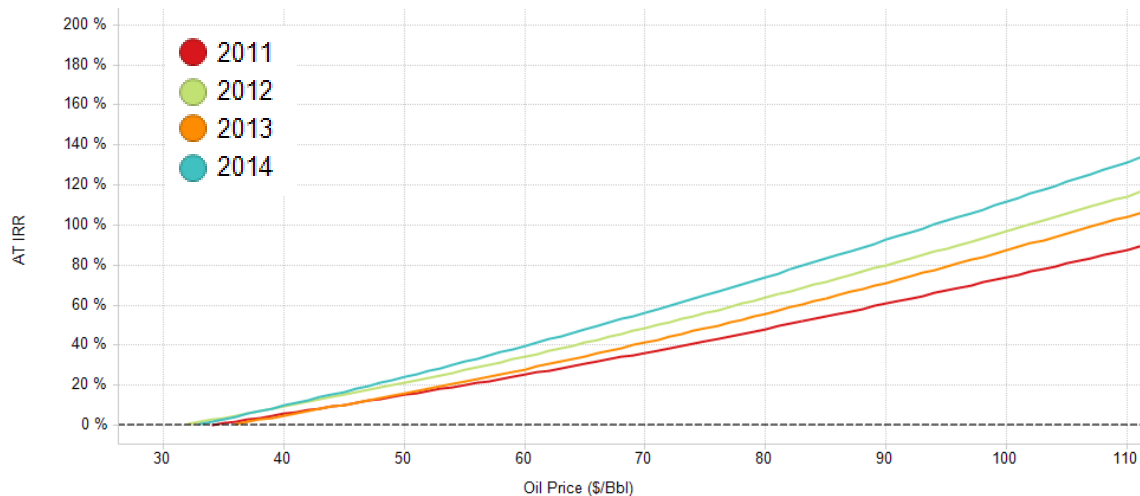
	Payout (Mos)	EUR (mbbl)
BHP	N/A	130
Conoco	13	305
EOG	12	350
Statoil	10	180
Eagle Ford Average	10	180

Oil Price Sensitivities



EAGLE FORD SHALE PERFORMANCE OVER TIME

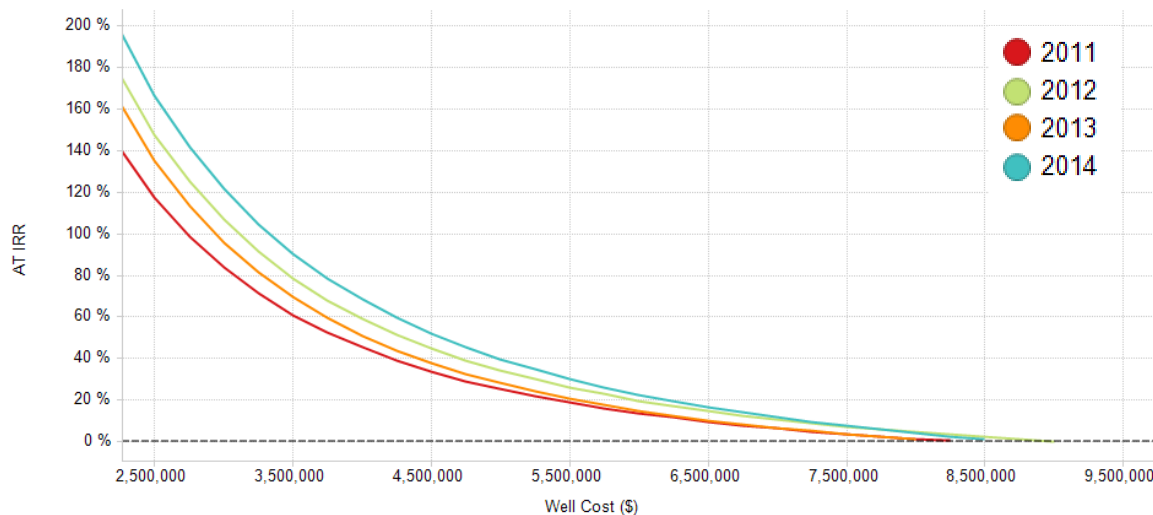
Oil Price Sensitivities



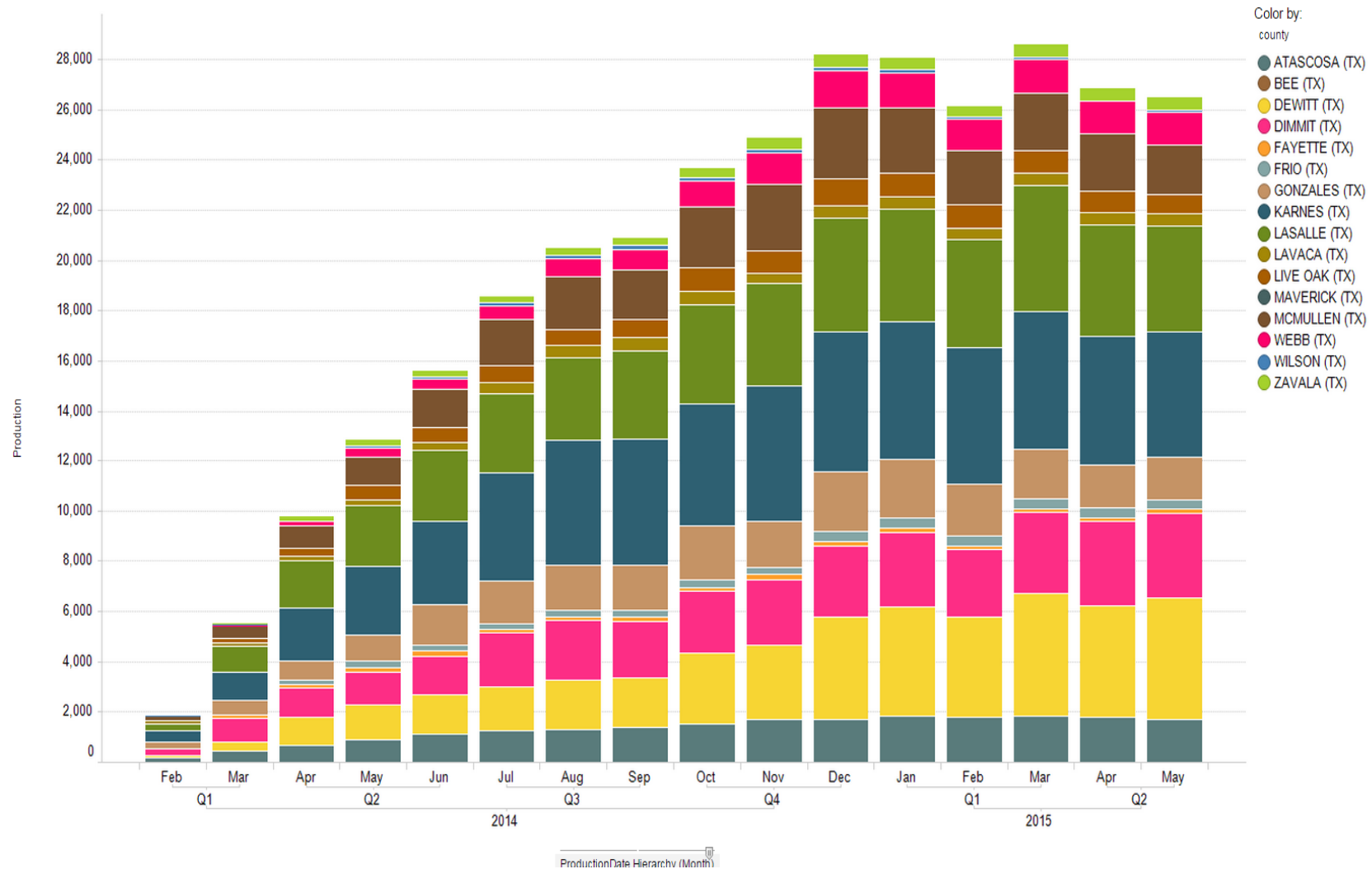
Vintage: Payout vs. EUR

	Payout (Mos)	EUR (mbbl)
2011	27	185
2012	21	208
2013	24	194
2014	18	198

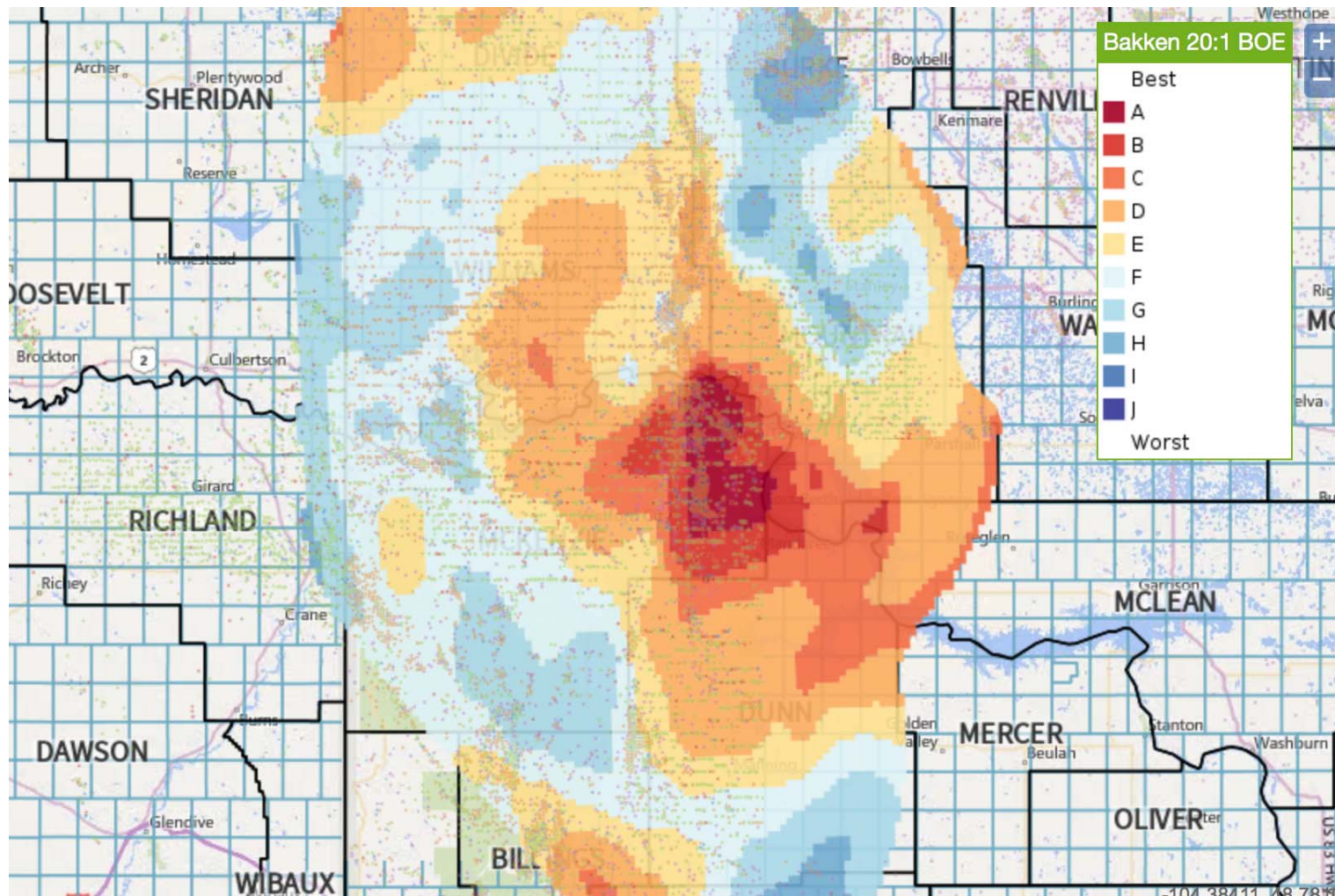
Well Cost Sensitivities



EAGLEFORD PRODUCTION THROUGH MAY 2015

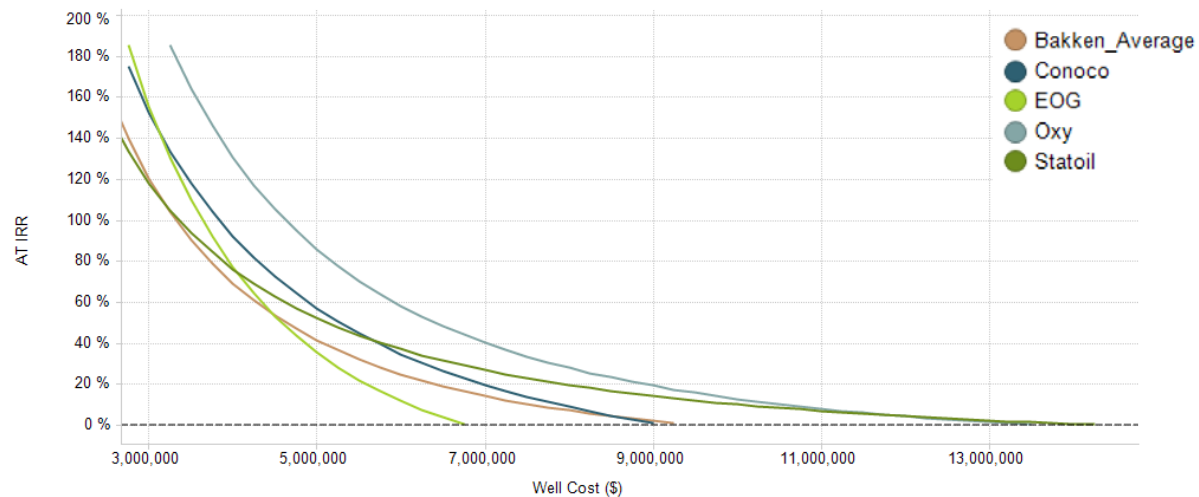


U.S. BAKKEN GRADED ACREAGE

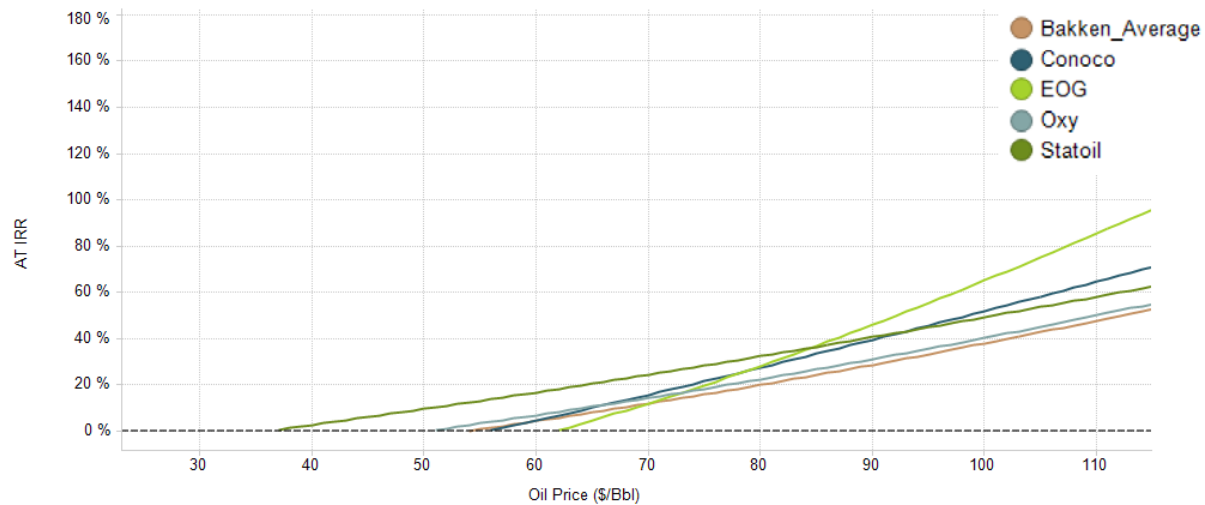


BAKKEN OPERATORS

Well Cost Sensitivities



Oil Price Sensitivities

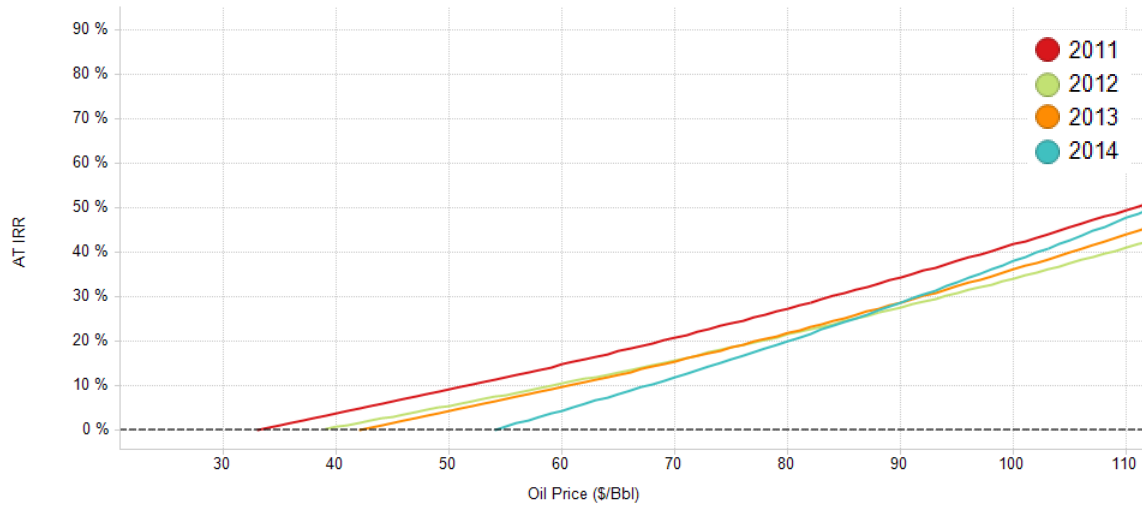


Operator: Payout vs. EUR

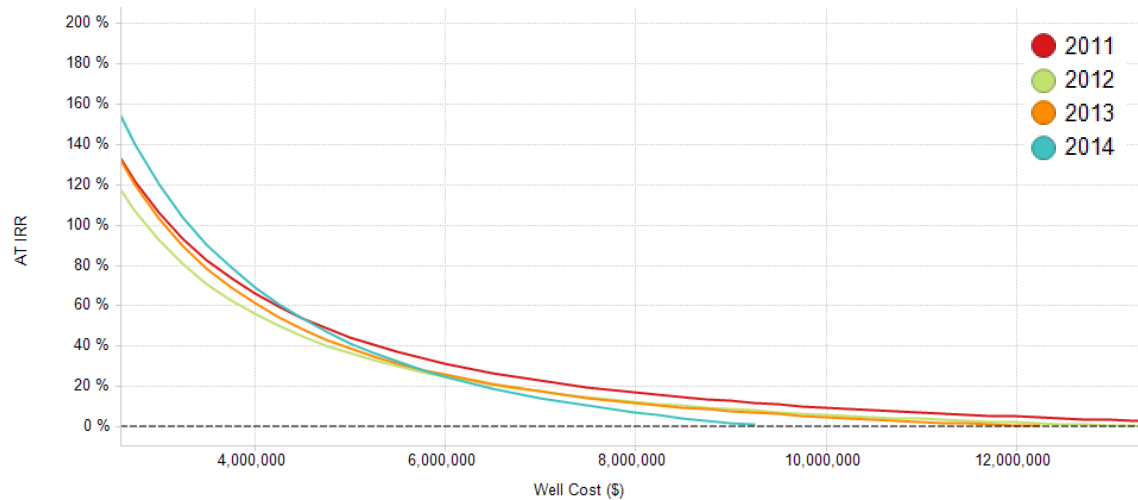
	Payout (Mos)	EUR (mbbl)
Bakken Average	77	240
Conoco	51	215
EOG	N/A	165
OXY	18	195
Statoil	41	355

BAKKEN SHALE PERFORMANCE OVER TIME

Oil Price Sensitivities



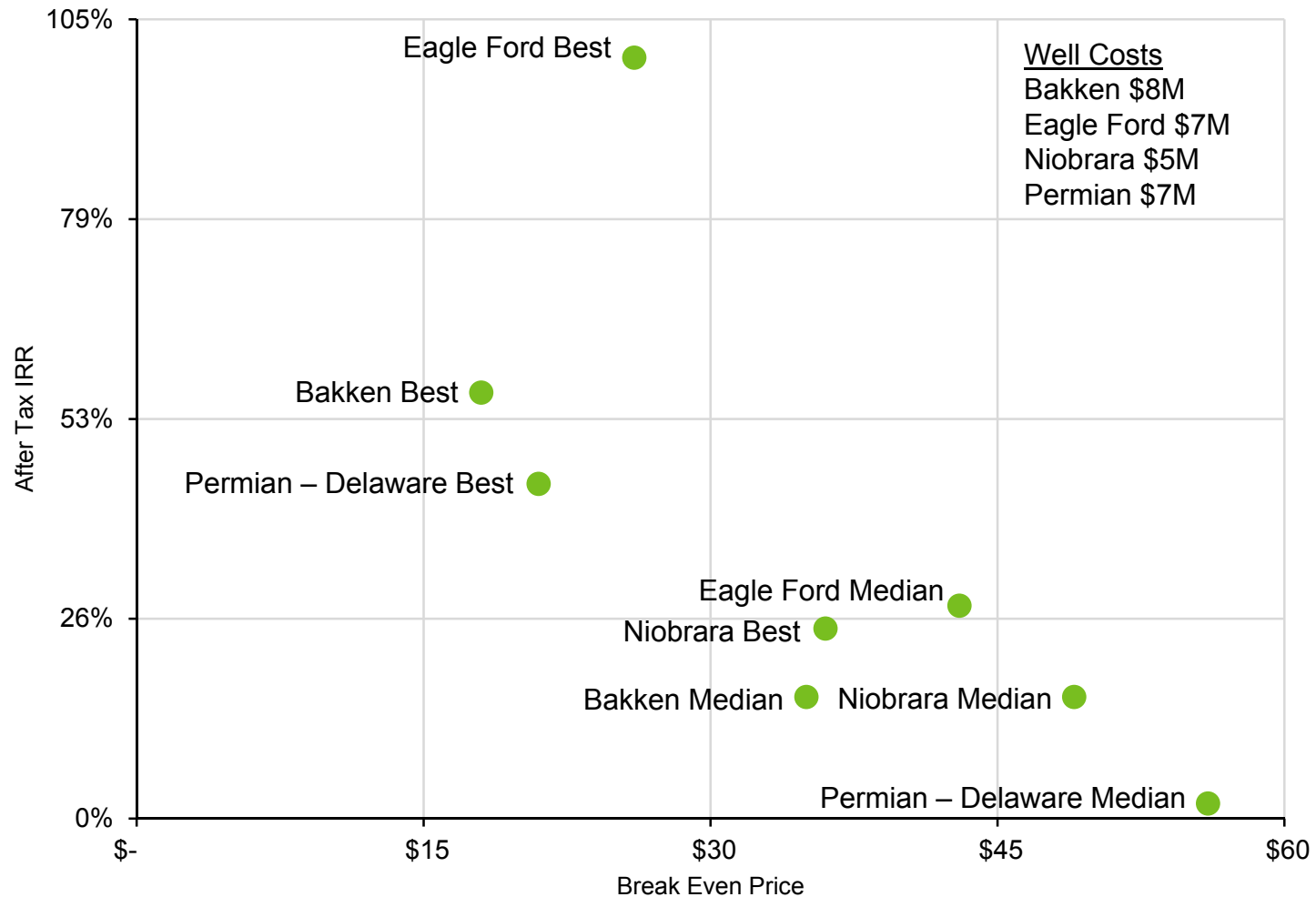
Well Cost Sensitivities



Vintage: Payout vs. EUR

	Payout (Mos)	EUR (mdbl)
2011	51	400
2012	66	345
2013	66	315
2014	76	240

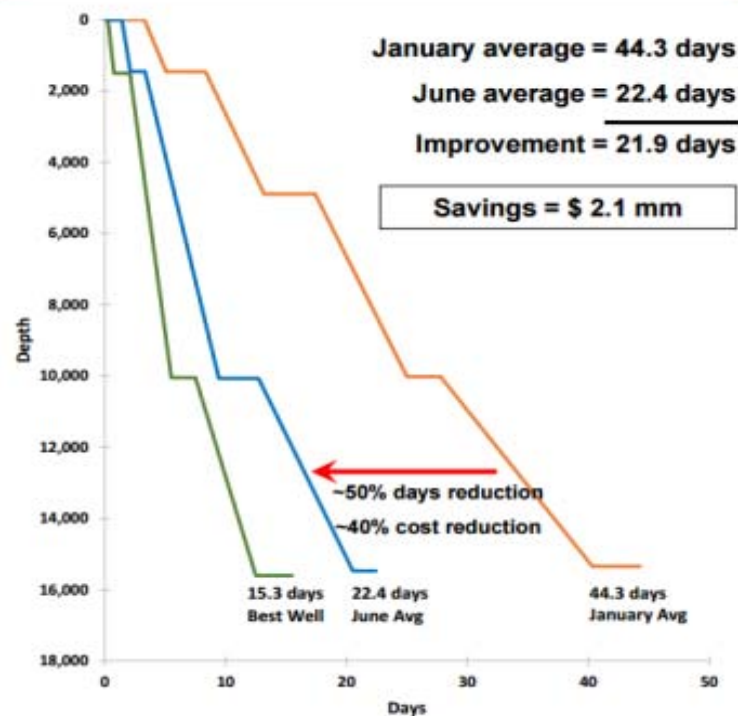
BREAK EVEN PRICE AND AFTER TAX IRR BY PLAY



Second Quarter 2015 Earnings Permian Resources – Drilling Efficiency

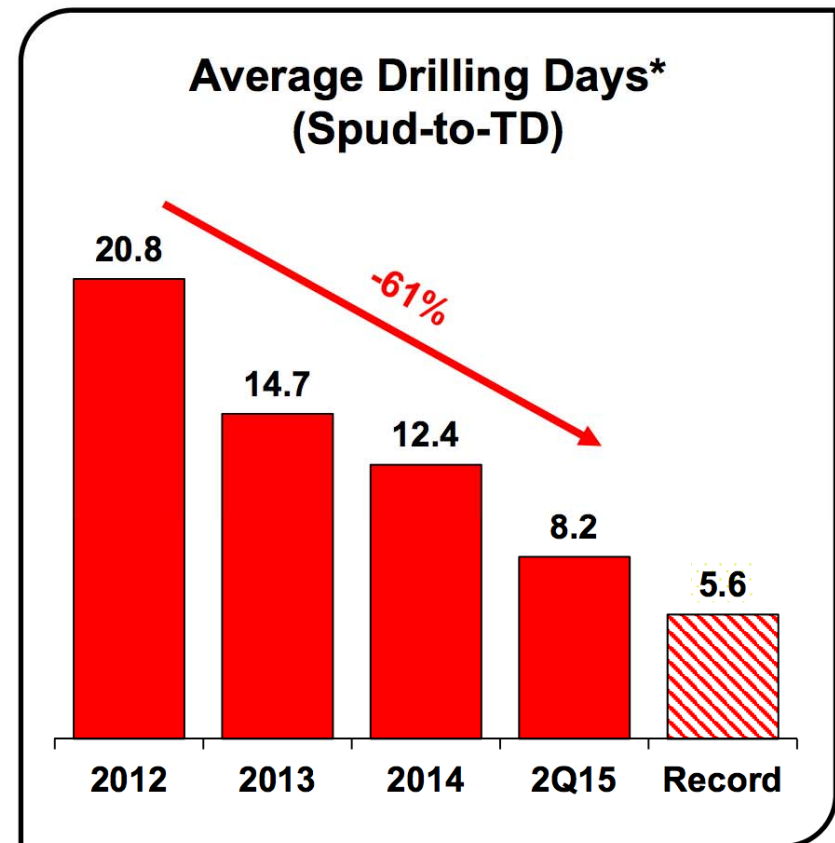
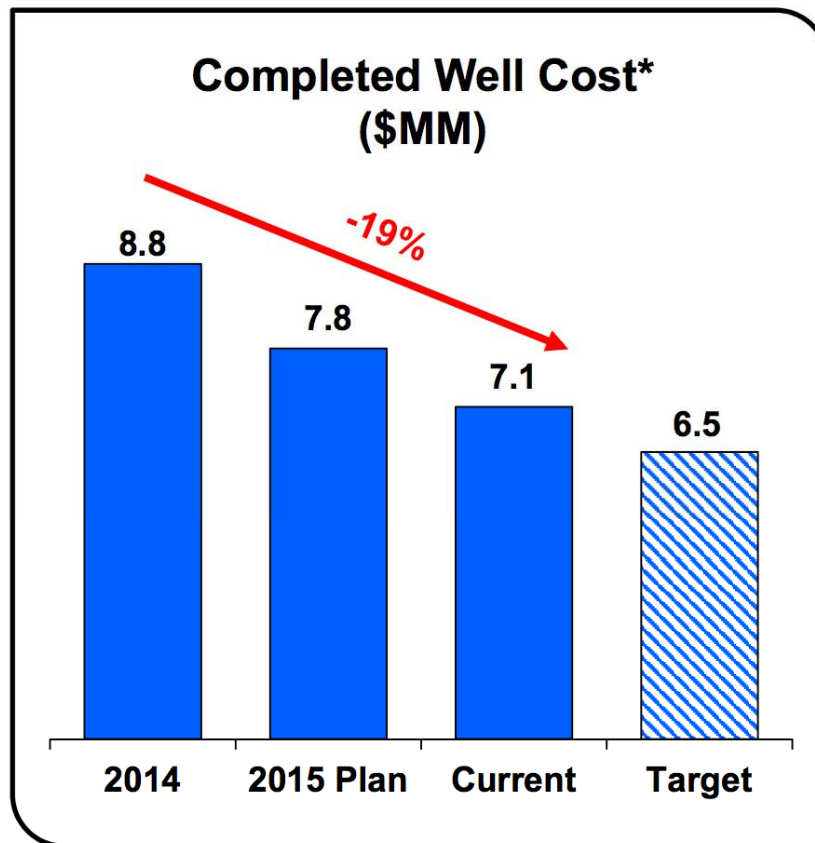
**Delaware Basin Wolfcamp A
well drilling time reduced by
~50% and costs by ~40%**

Technology	Days
Multi-well pad, reduced move time	1.8
High-resolution benchmarking	1.5
Advanced mud system to eliminate casing across salt interval	5.1
Oxy Drilling Dynamics	8.5
Curve building optimization	1.2
Vibration reduction to eliminate downhole tool failures	1.7
Rig site crew efficiency	2.1
Total Days Reduction	21.9



Source: Oxy Q2 2015 Earnings Report

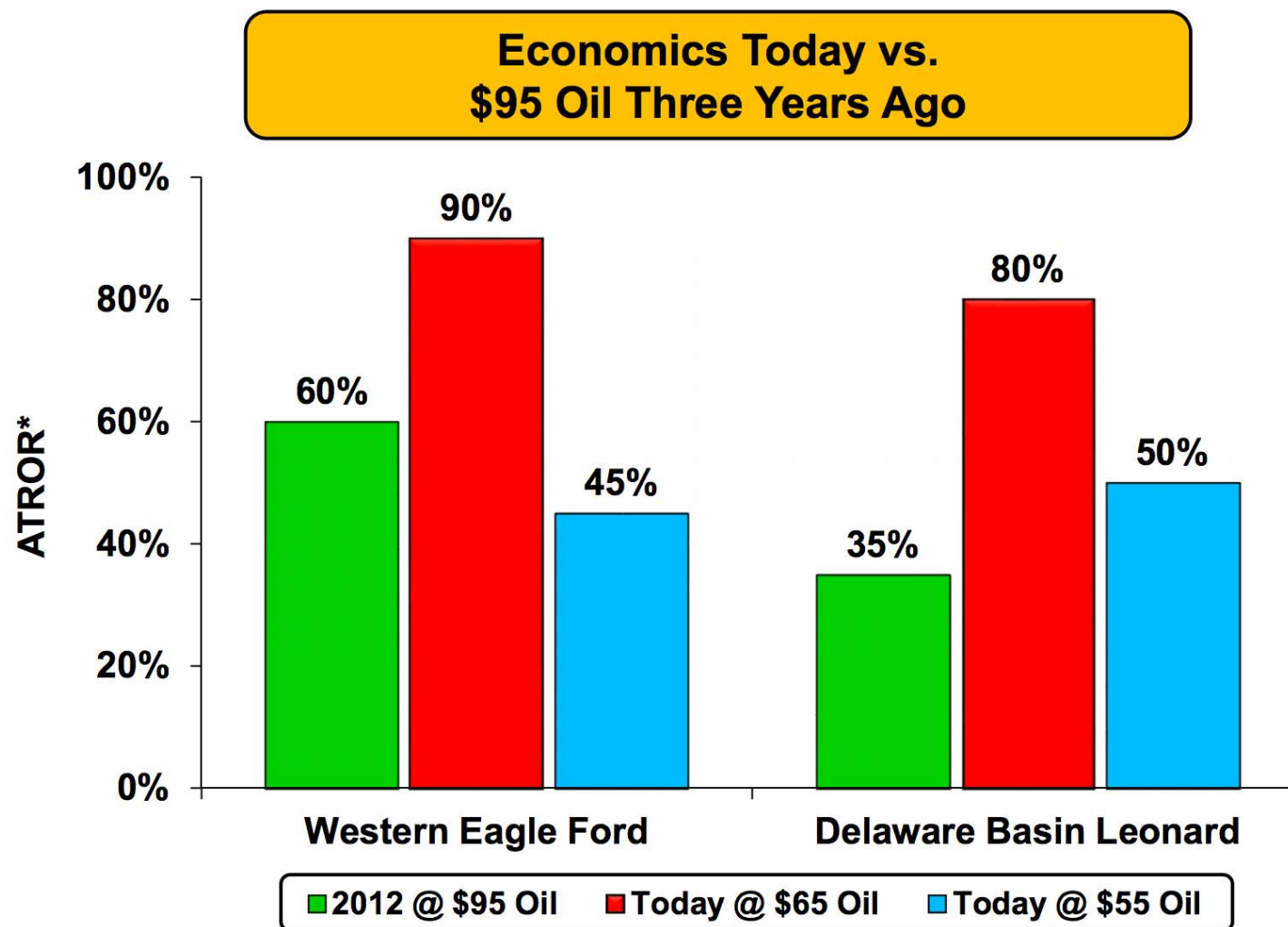
EOG Resources Bakken Performance



Source: EOG Resources Investor Presentation 08-2015. See for additional details

EOG Resources

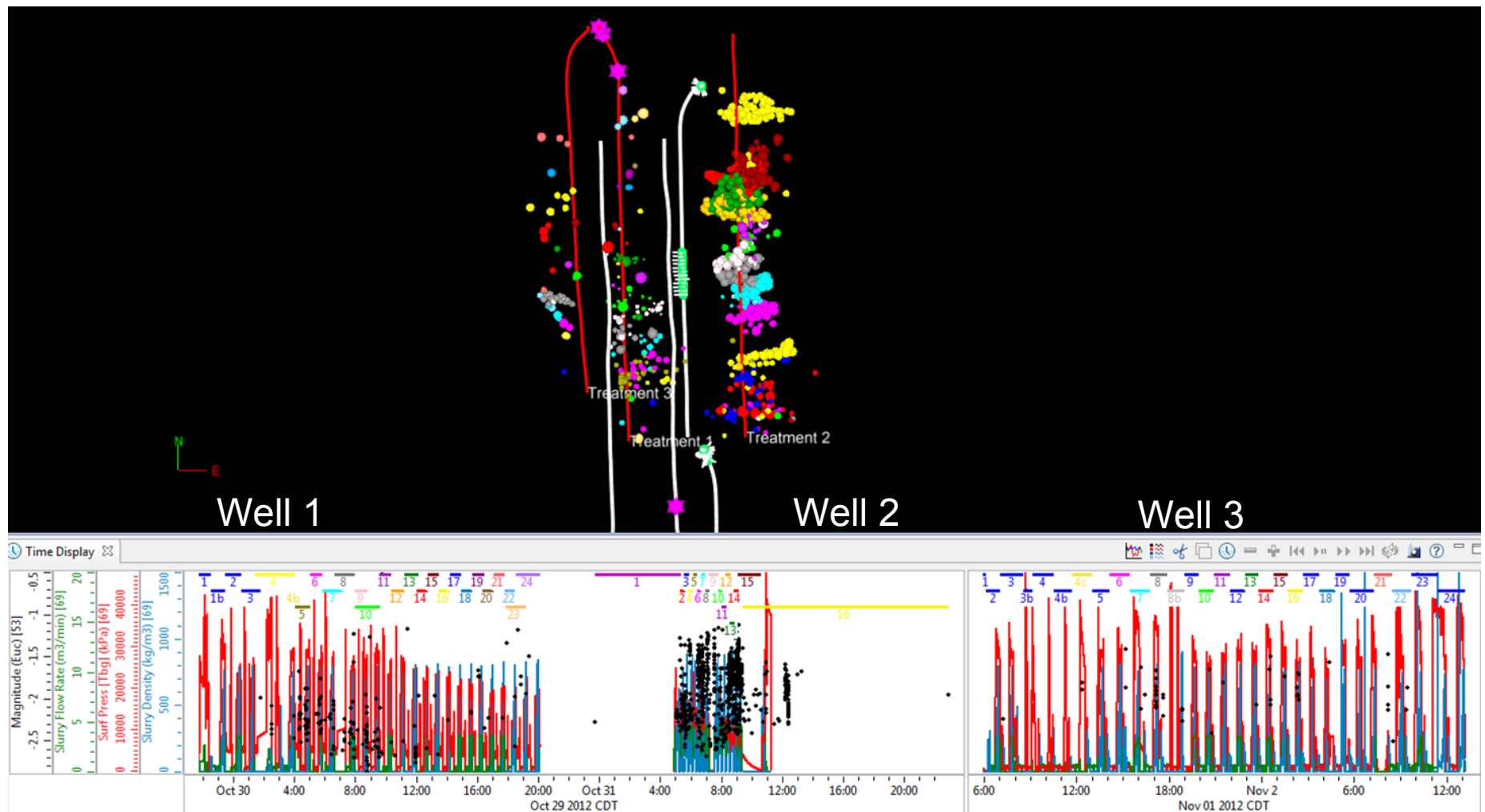
Current Returns Versus 2012



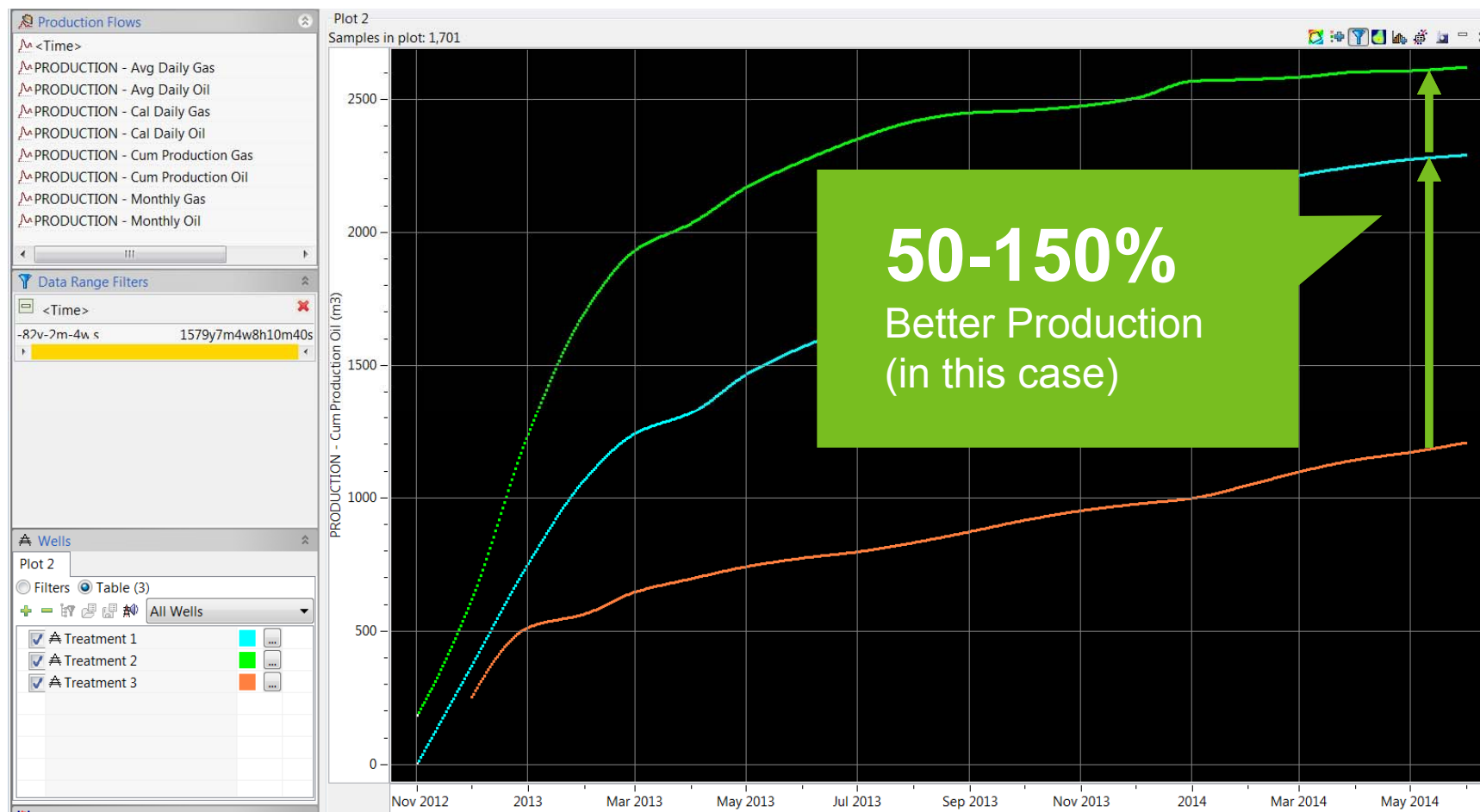
Source: EOG Resources Investor Presentation 08-2015. See for additional details

TECHNOLOGY CONTINUES TO IMPROVE EFFICIENCY

Production Variations By Completion/Stimulation Practices

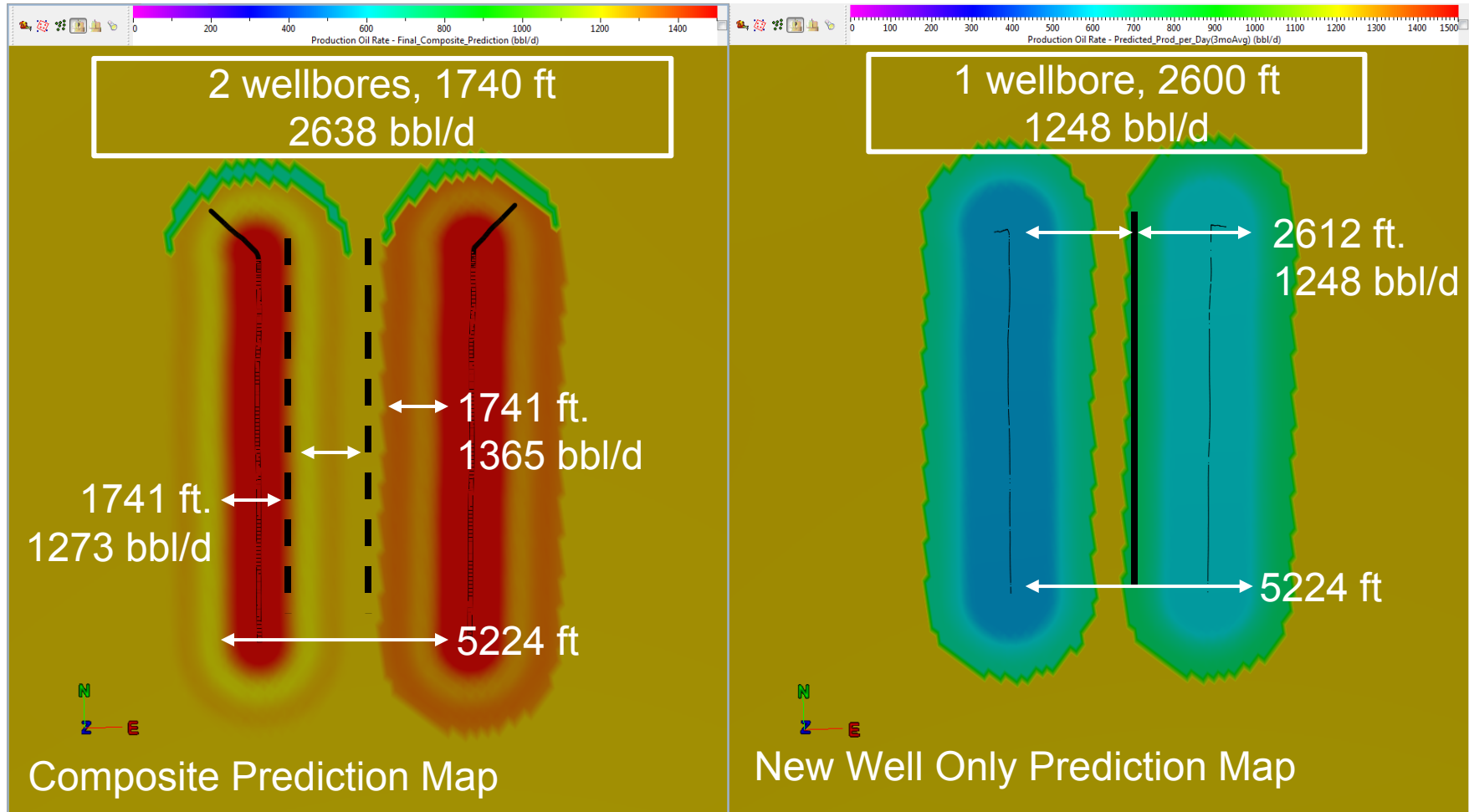


Production Variations By Completion/Stimulation Practices

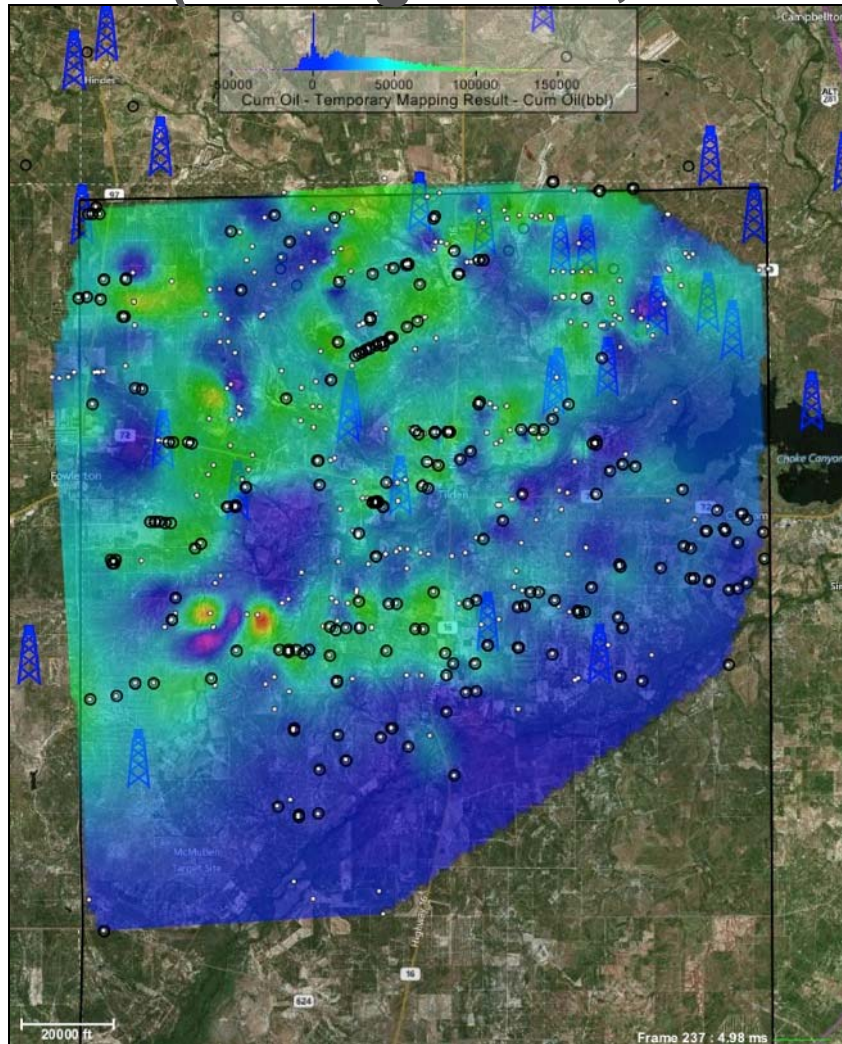


FIELD PLANNING: WELL SPACING

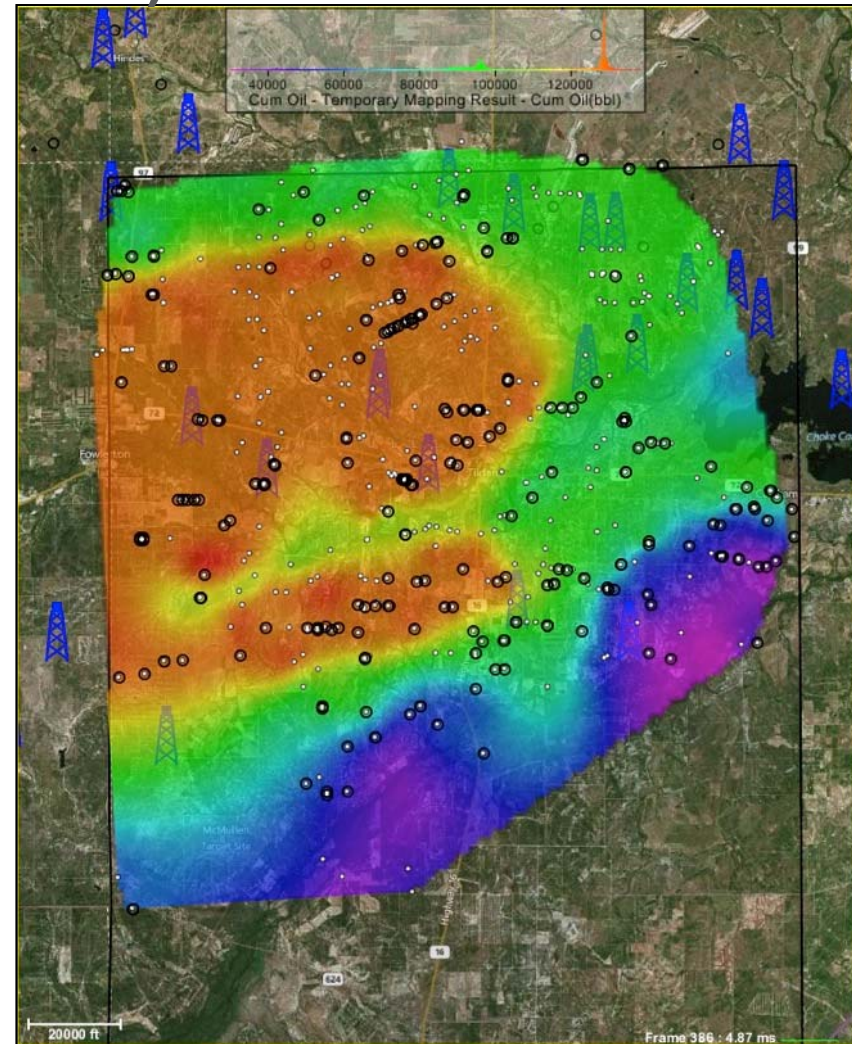
Combined Production Map



Statistical Analysis Of Geology Vs. Straight Production Grid. (Ex: Eagle Ford, McMullen Co)

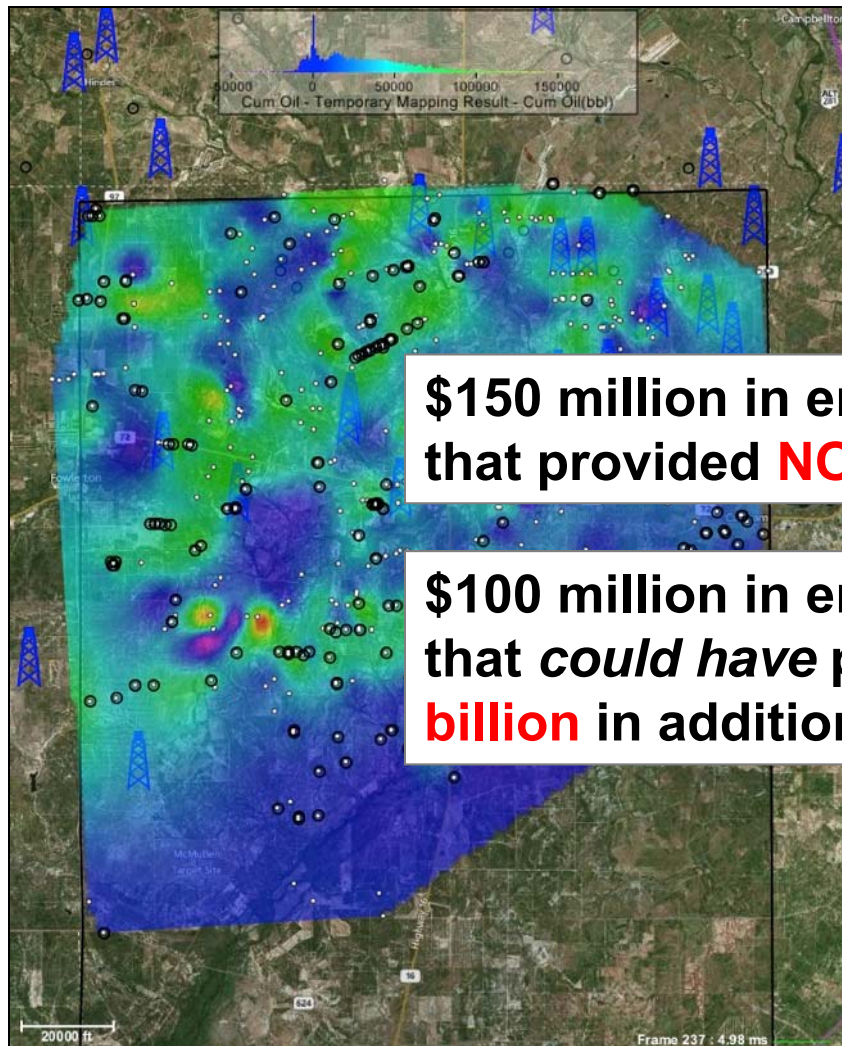


6 Month Actual Oil Production Map



*6 Month Oil Native Production Map
(Normalized Engineering)*

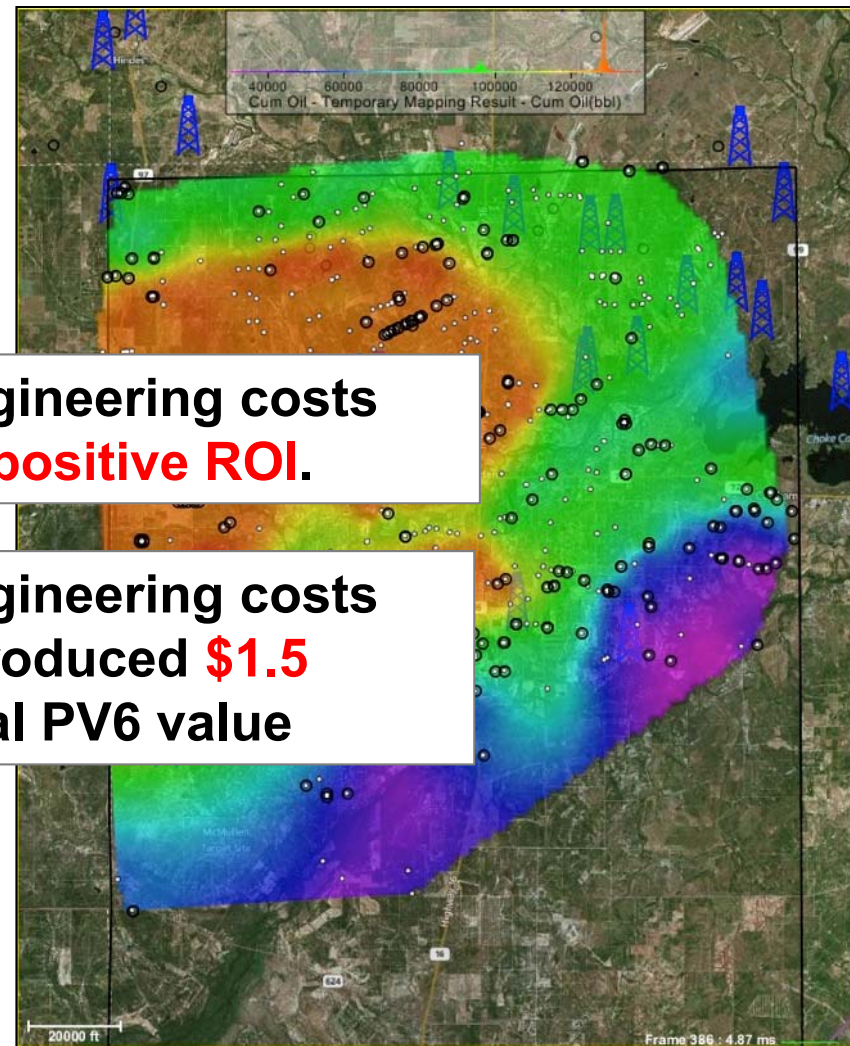
Example: Eagle Ford, McMullen Co.



**\$150 million in engineering costs
that provided **NO positive ROI.****

**\$100 million in engineering costs
that *could have* produced **\$1.5
billion** in additional PV6 value**

6 Month Actual Oil Production Map



*6 Month Oil Native Production Map
(Normalized Engineering)*

PREDICTED PRODUCTION MAPS BASED ON TIER 2 DUNN & MCKENZIE NON-LINEAR REGRESSION MODEL

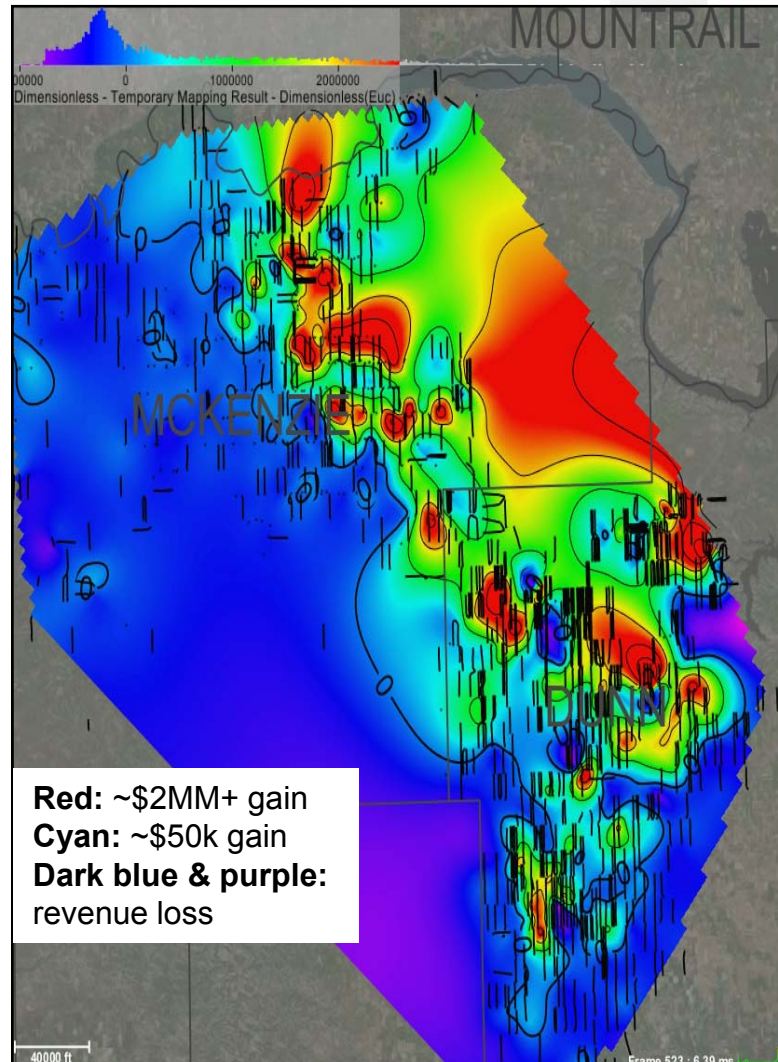
This shows the revenue difference between the 700 lbs/ft model and the 400 lbs/ft model

Assuming:

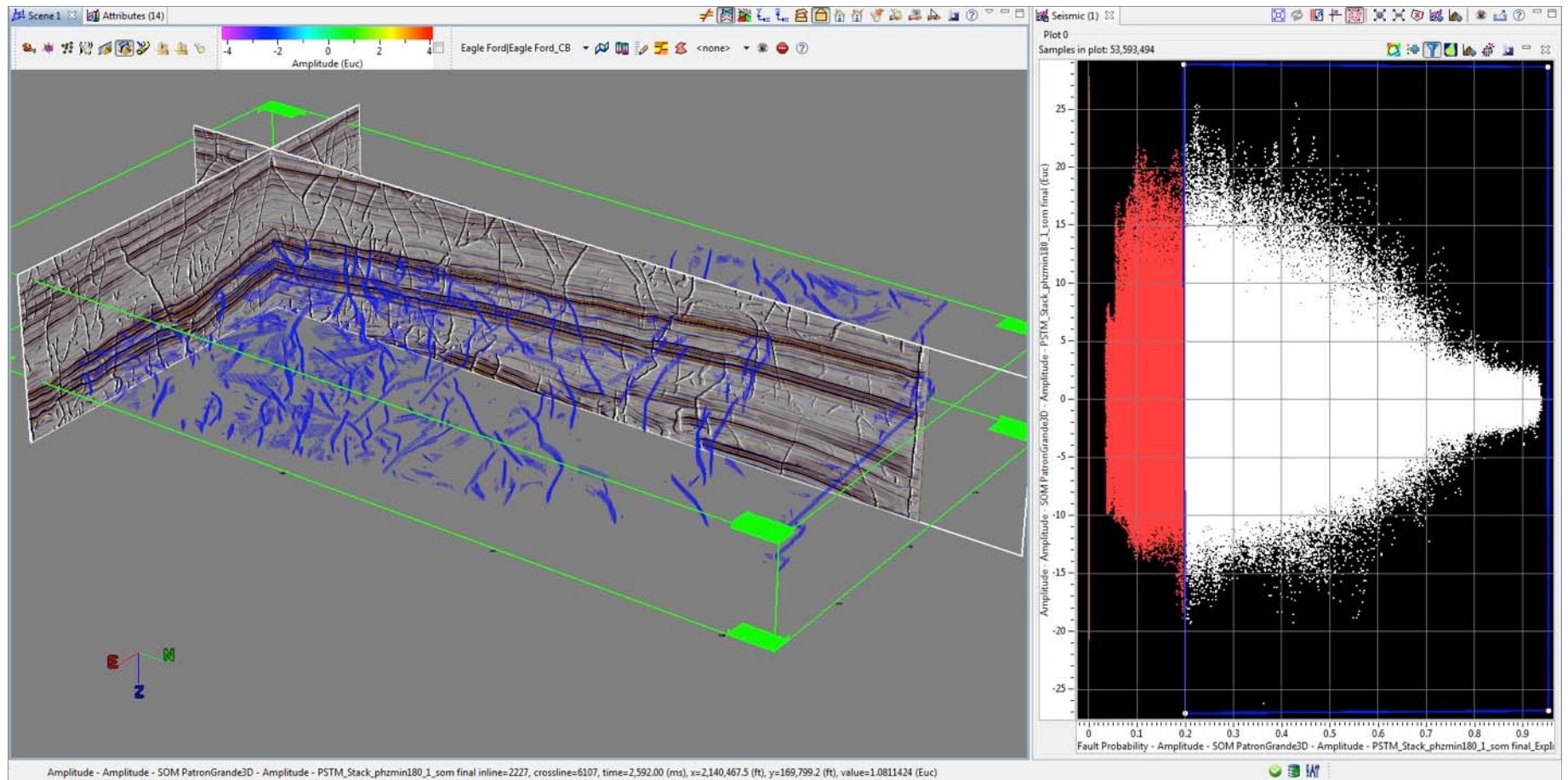
10,000 ft laterals

\$0.20/lb of proppant

\$40/bbl return for oil

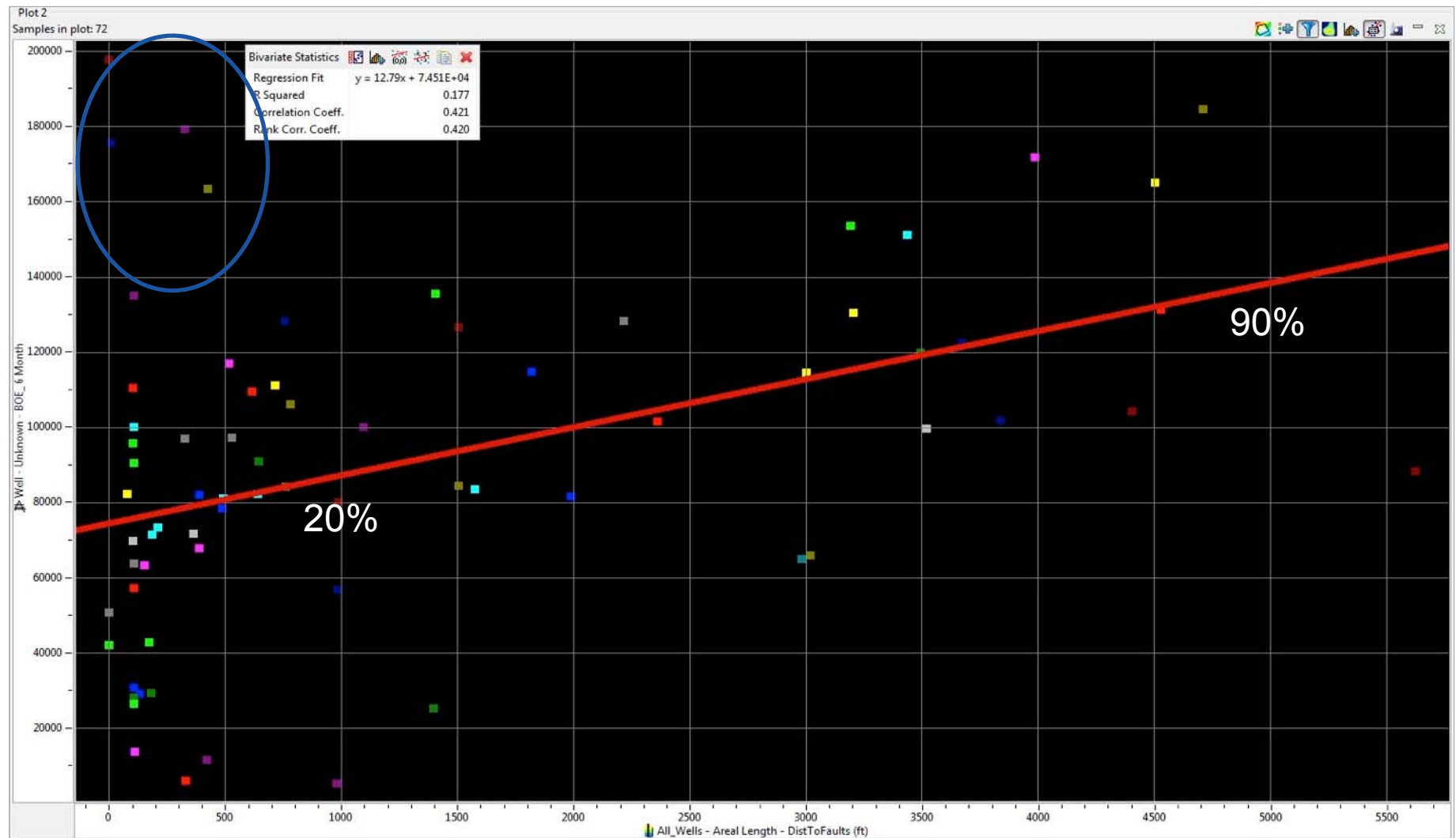


Fault Proximity Impact on Production



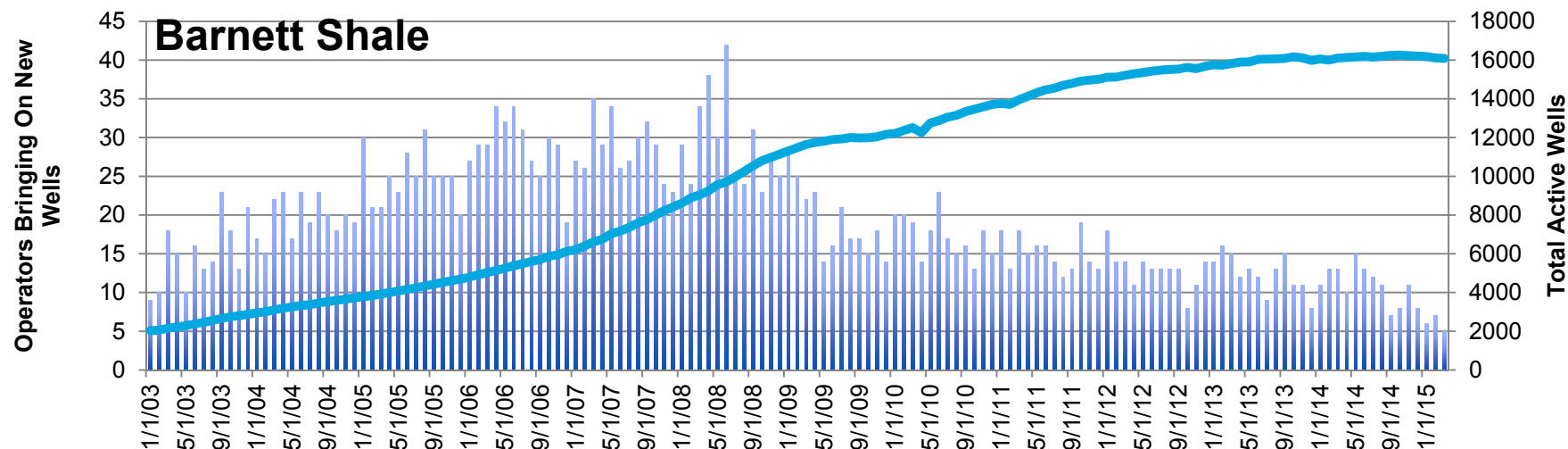
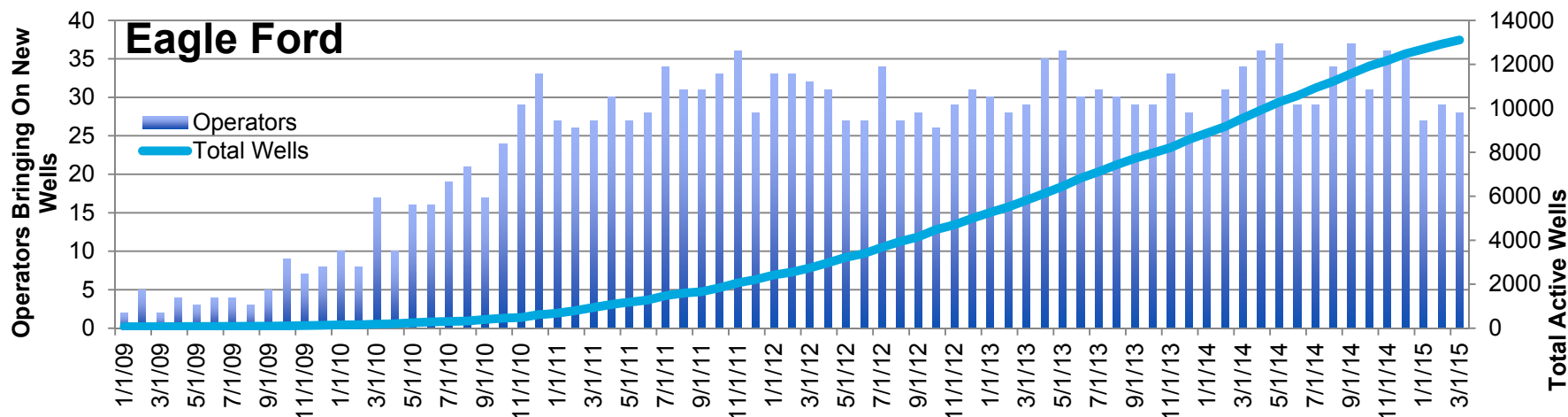
Probabilistic determination of faulting

Fault Proximity Impact on Production



Distance to Faults versus BOE

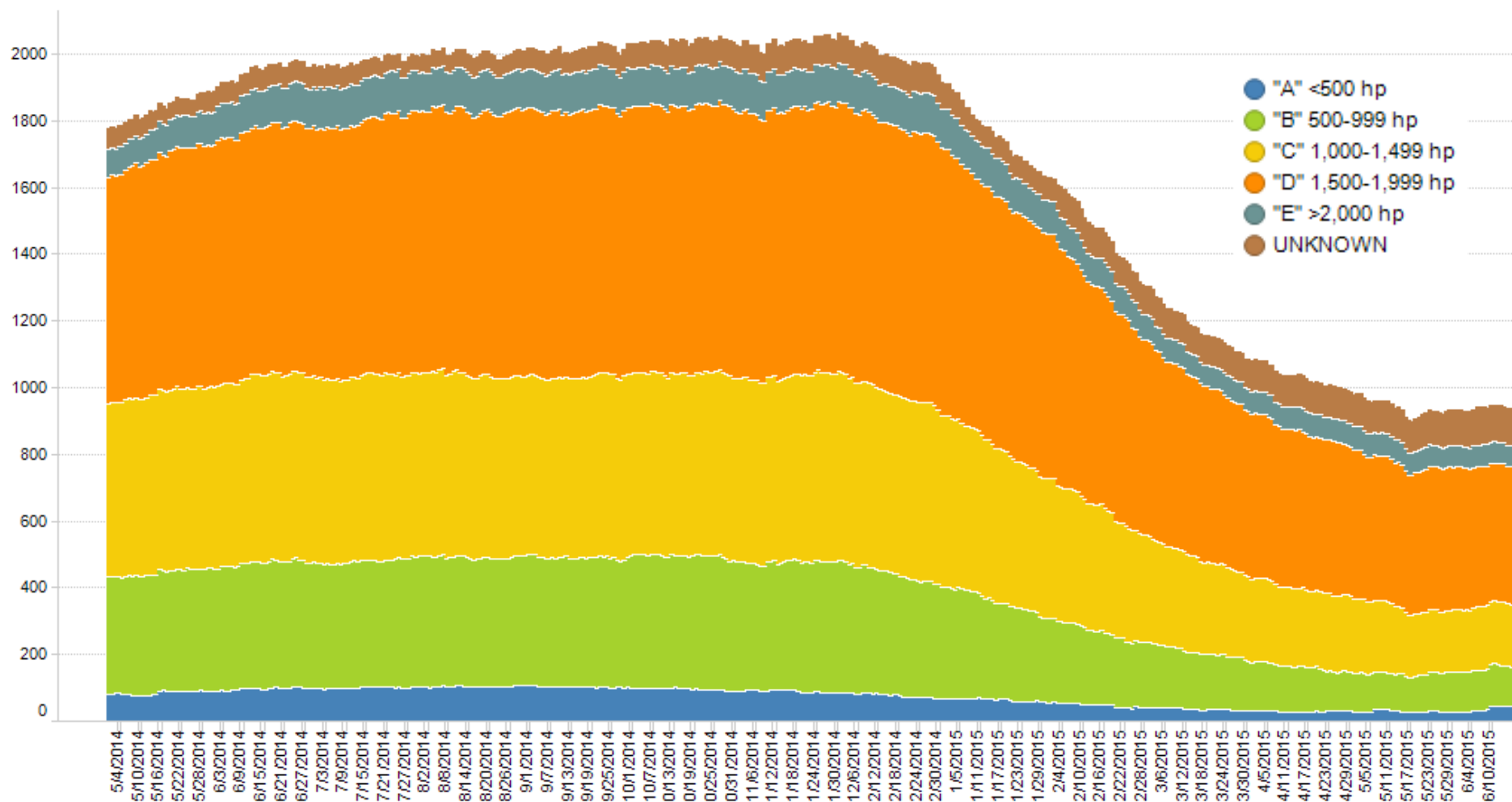
Efficiencies Are Driven By 100's of Operators, 1000's of Companies, across 10,000's of Wells



IMPACT OF EFFICIENCY ON US ACTIVITY AND PRODUCTION

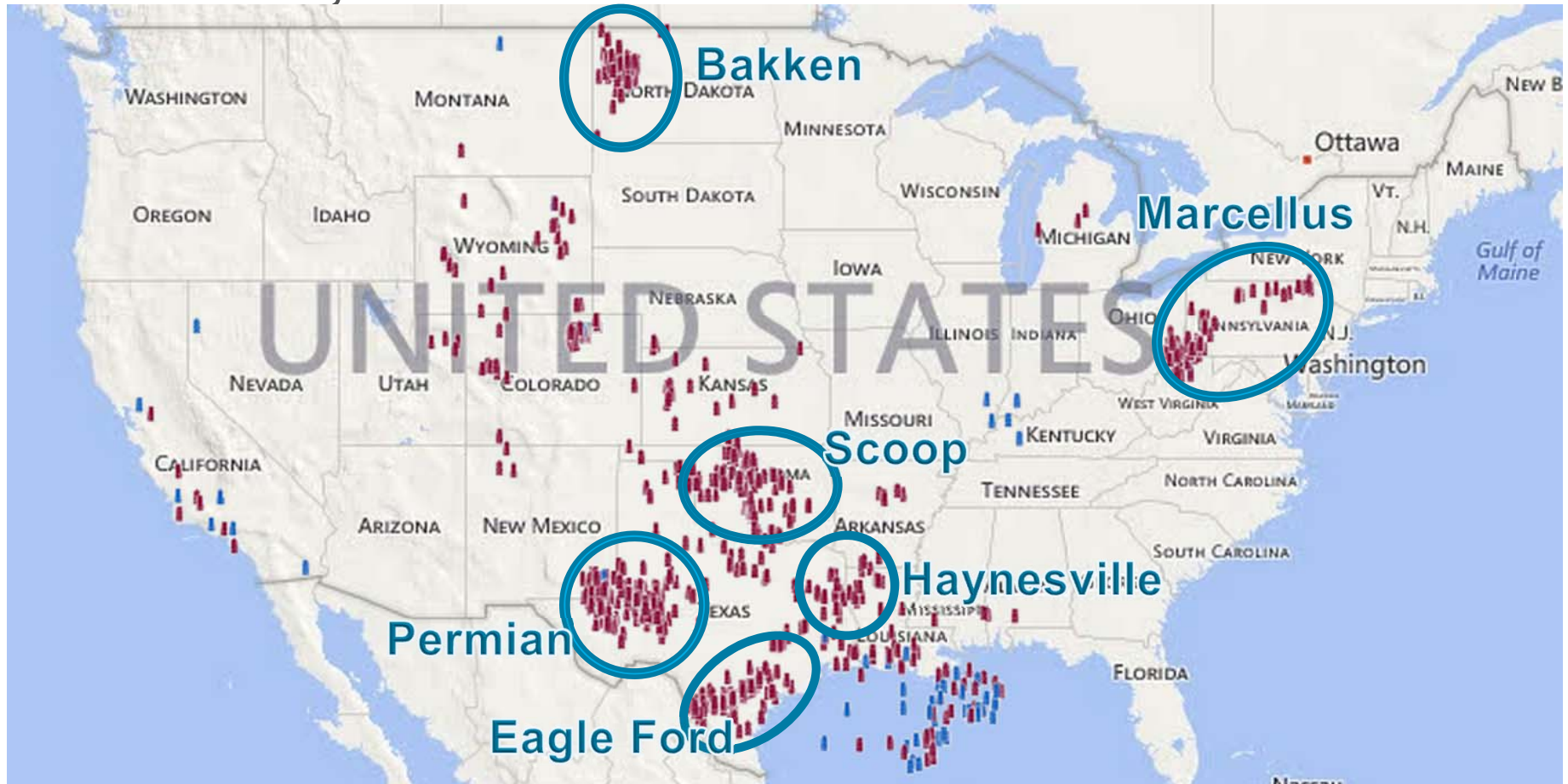
U.S. Rig Count by Drilling Intensity

March 2014 – June 10, 2015

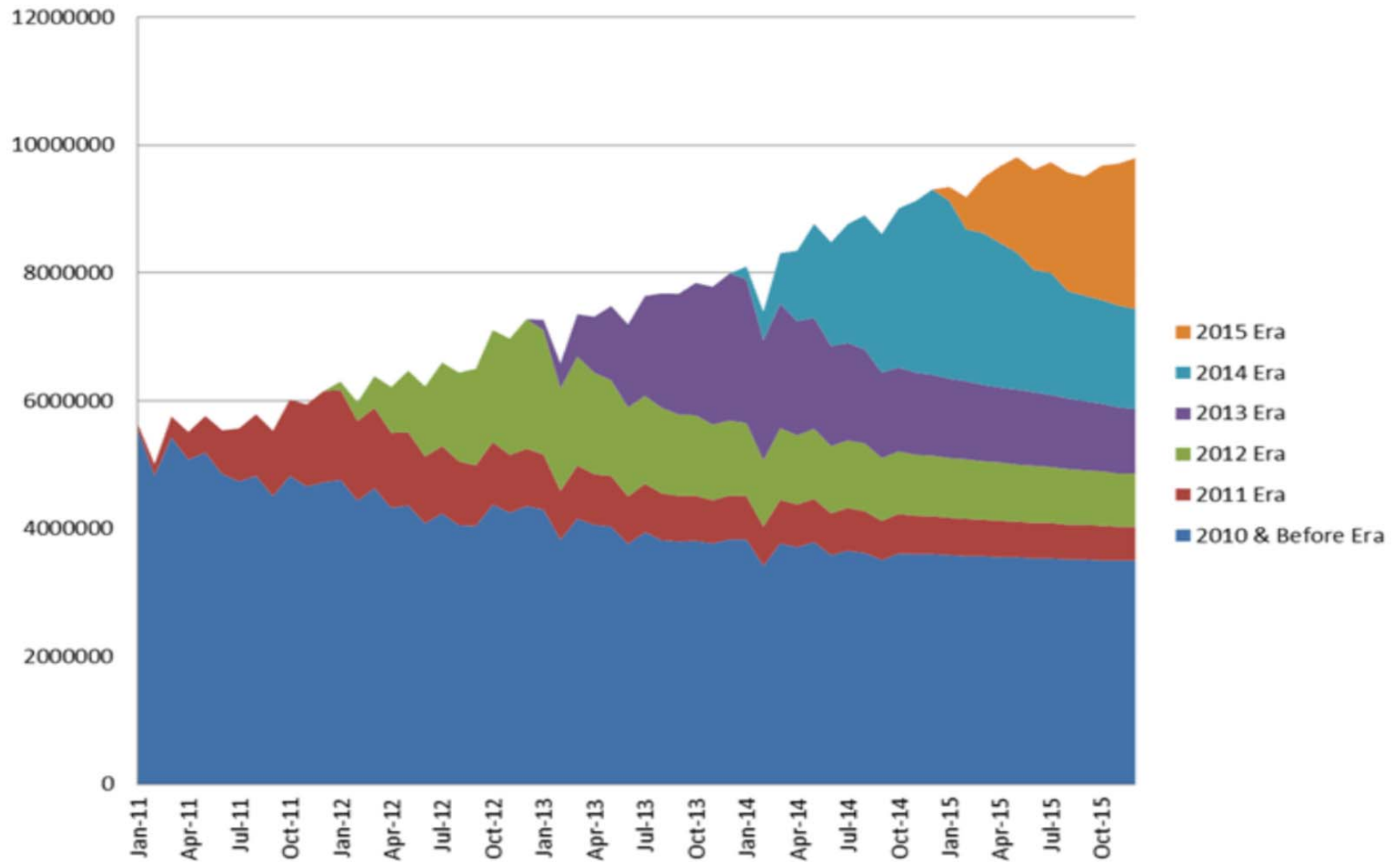


CURRENT US RIG OVERVIEW

AUGUST 19, 2015



DRILLINGINFO'S APRIL 2015 FORWARD US OIL PRODUCTION ESTIMATE



THANK YOU.