



# Resurgence of the Louisiana Austin Chalk

PLANO Executive Night  
New Orleans, Louisiana  
March 28, 2019

# Resurgence of the Austin Chalk | Agenda

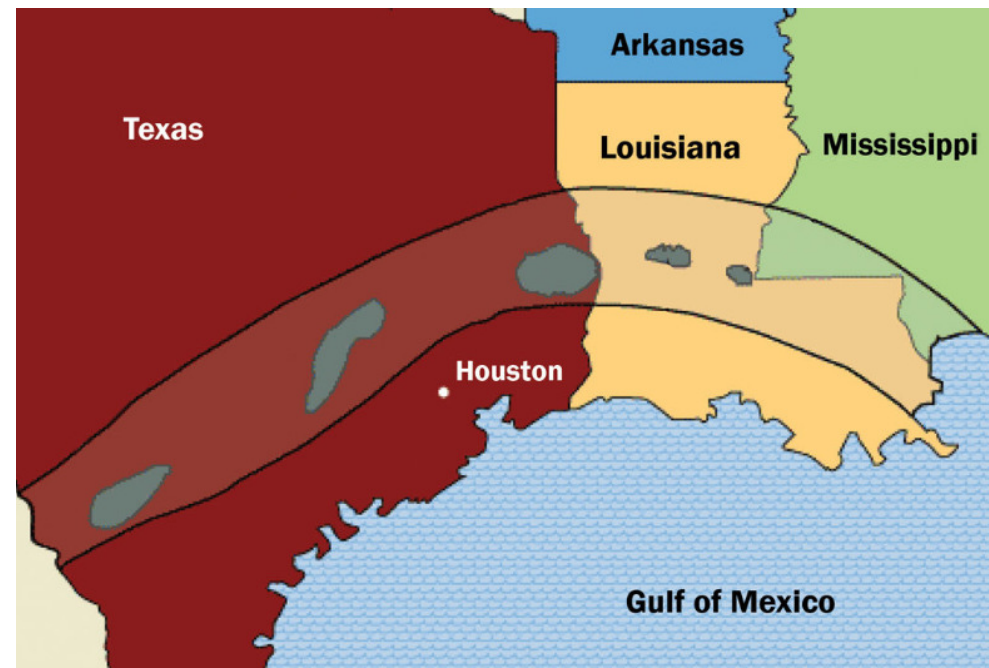


## ❖ Overview of the Austin Chalk

## ❖ History of the Austin Chalk

## ❖ The Play Heats Up in LA

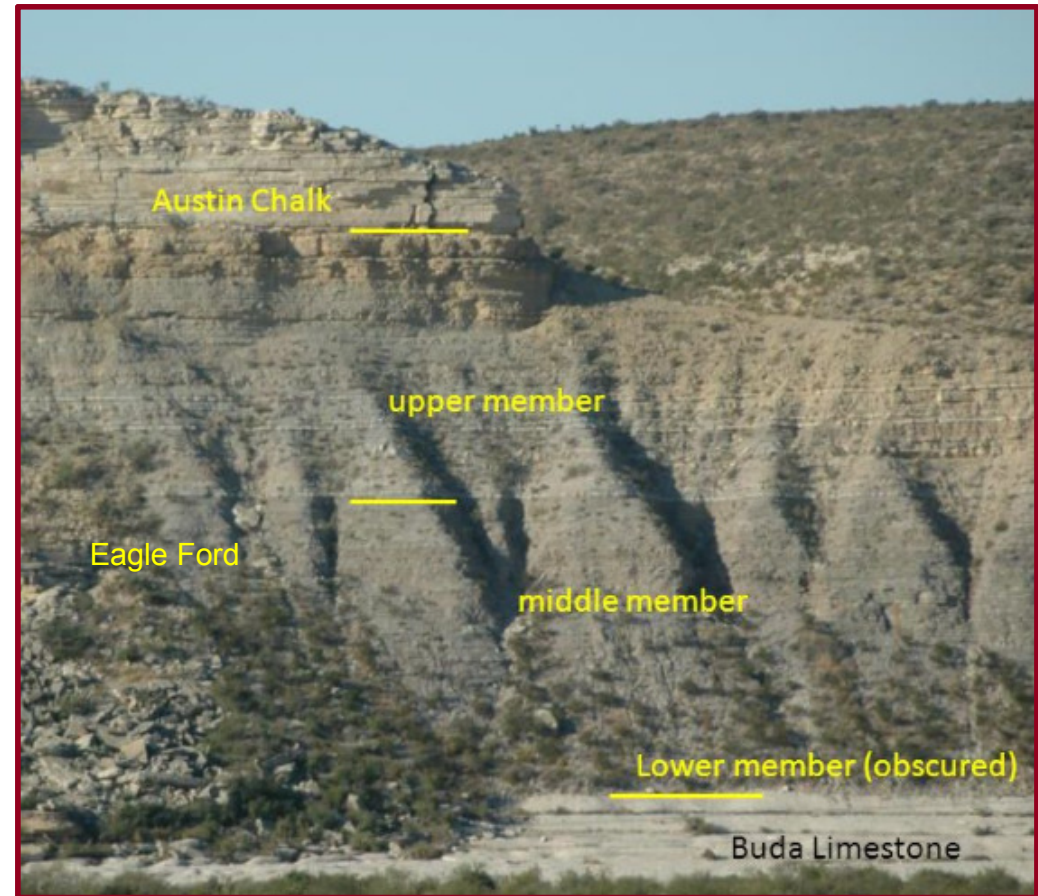
## ❖ Where are We Headed



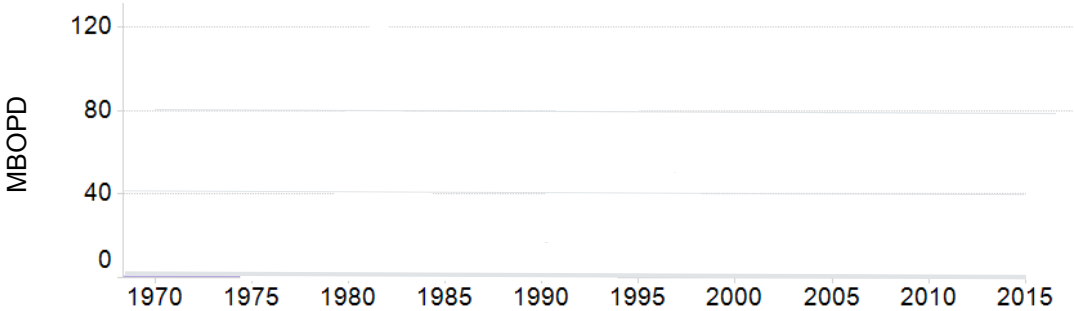
*Source: Society of Petroleum Engineers*

## Austin Chalk | Overview

- The Austin Chalk is an Upper Cretaceous carbonate formation
- Gulf Coast from Texas through Louisiana
- First produced in Texas - 1920's
- Modern production from the 1970's
  - Vertical
  - Horizontal (Unfracked)
- Today – Fracked Horizontals

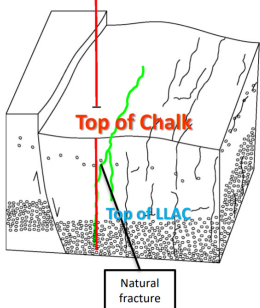


# Austin Chalk | Historical Focus

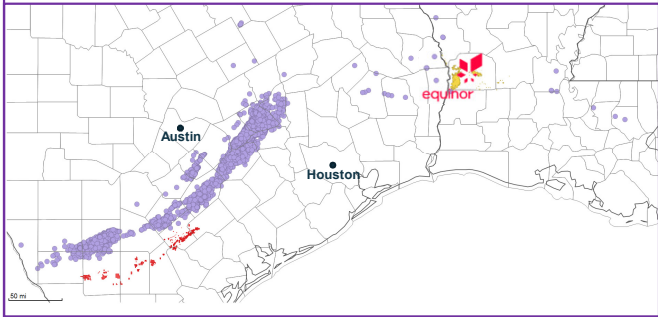


**1970 - 1990**

## Unfracked Verticals

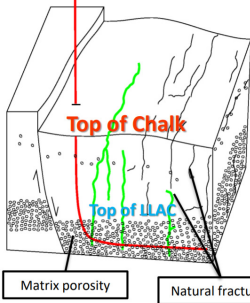


Chalk production entirely from natural fractures

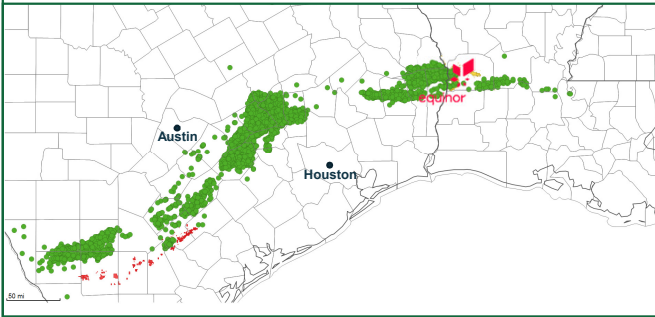


**1990-2015**

## Unfracked Horizontals

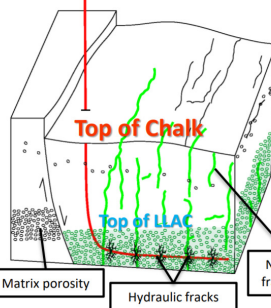


Chalk production primarily from natural fractures in contact with the wellbore, with some production coming from pore space

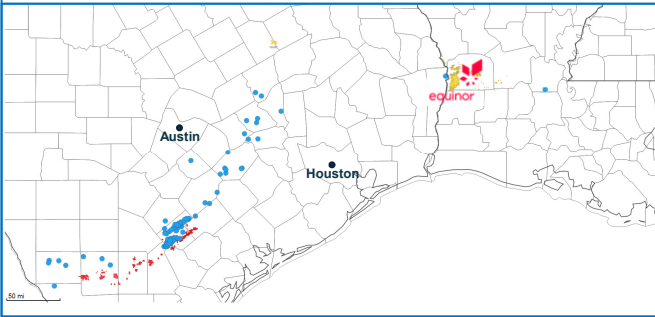


**2015-2018**

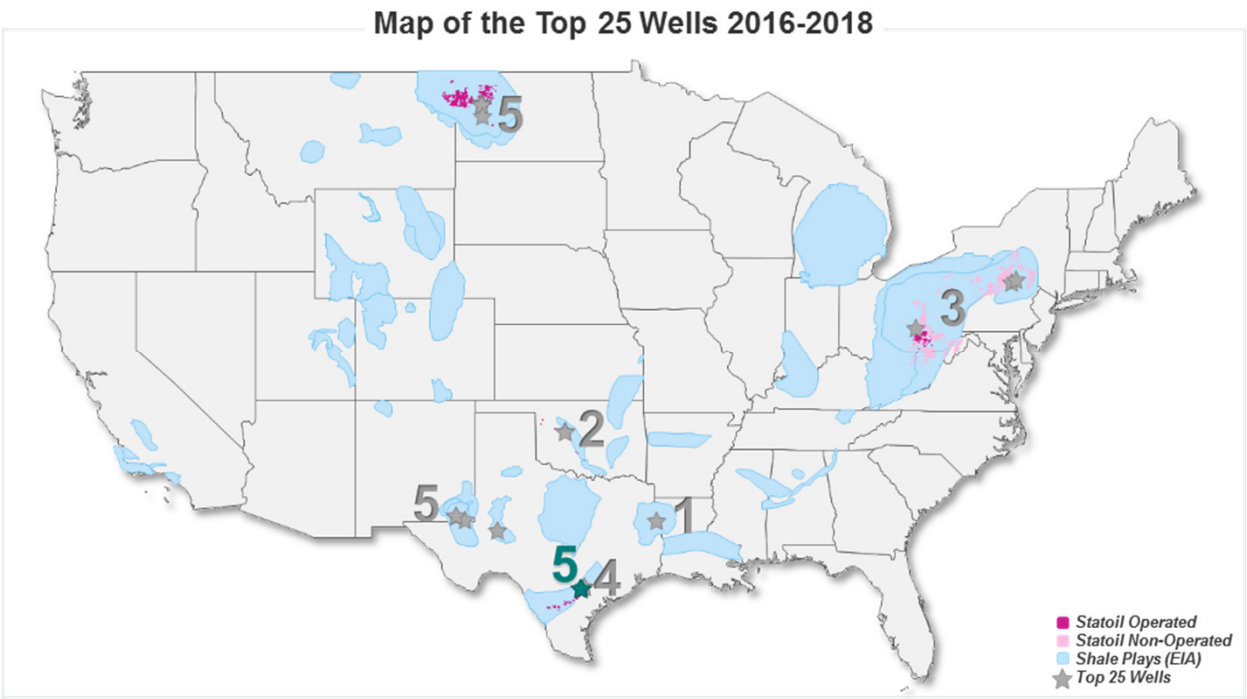
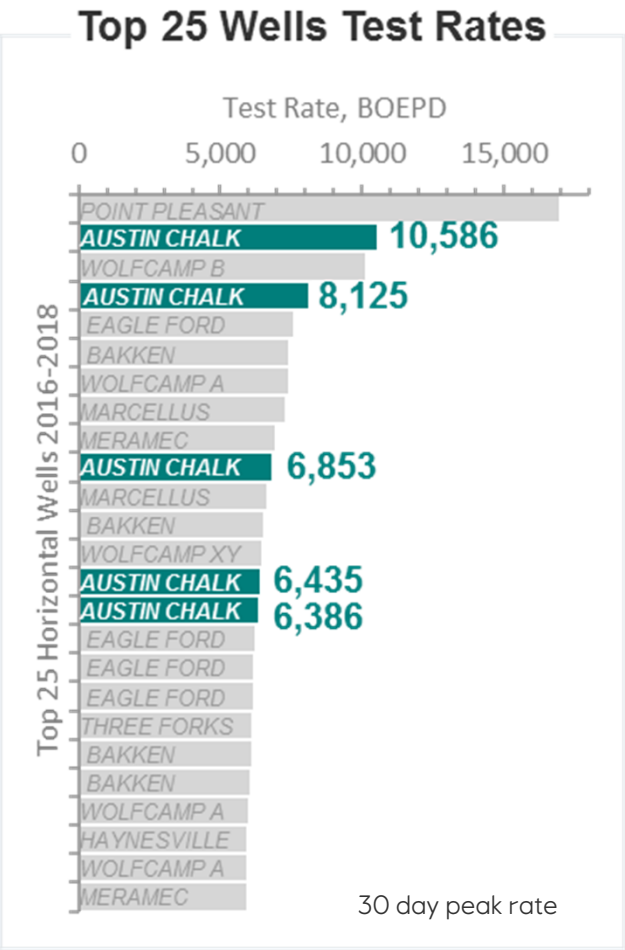
## Fracked Horizontals



Chalk production primarily from matrix porosity with permeability created by hydraulic fracturing, with natural fracture upside

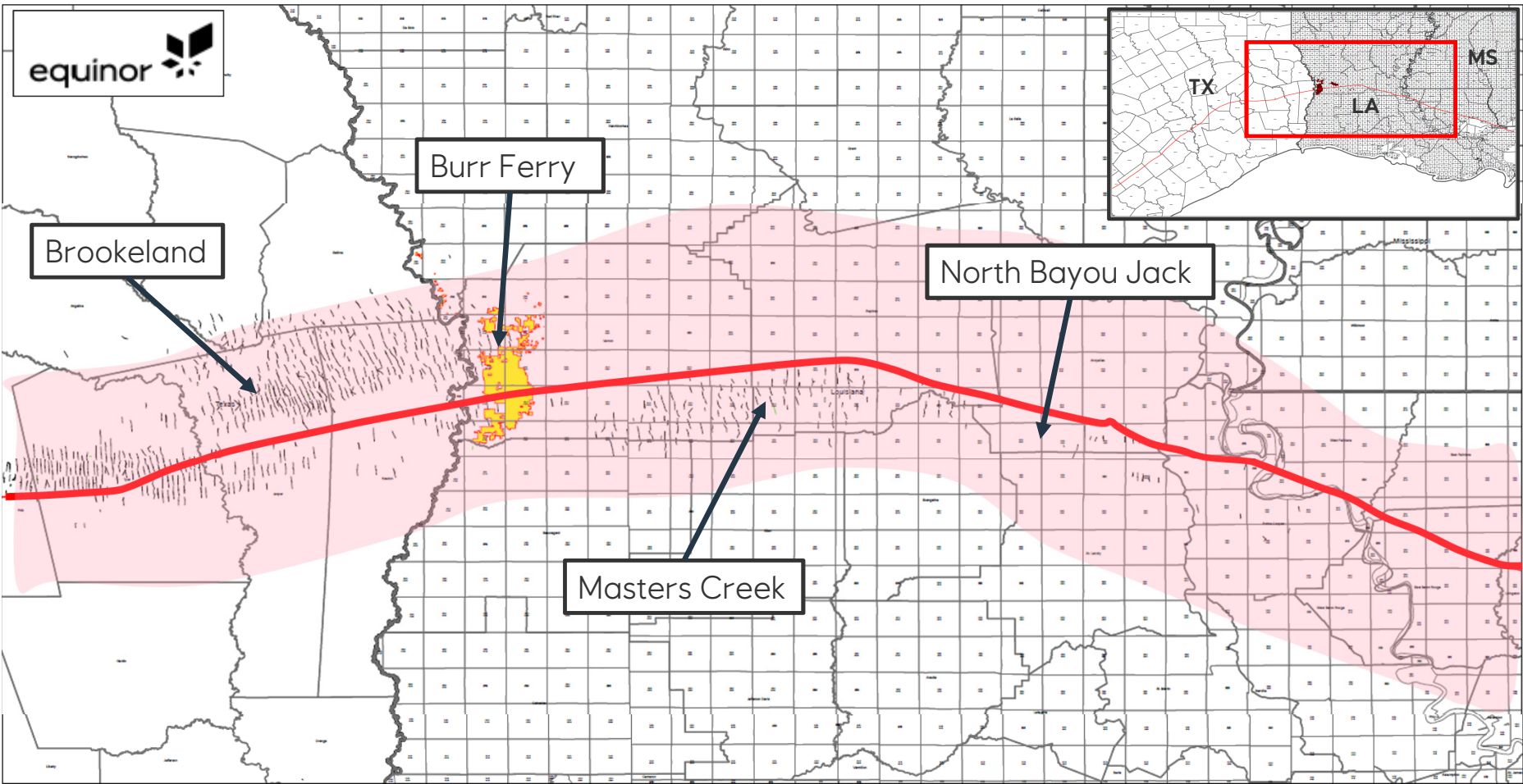


# Austin Chalk | Well Performance





# Austin Chalk | Across Existing Fields



PT1

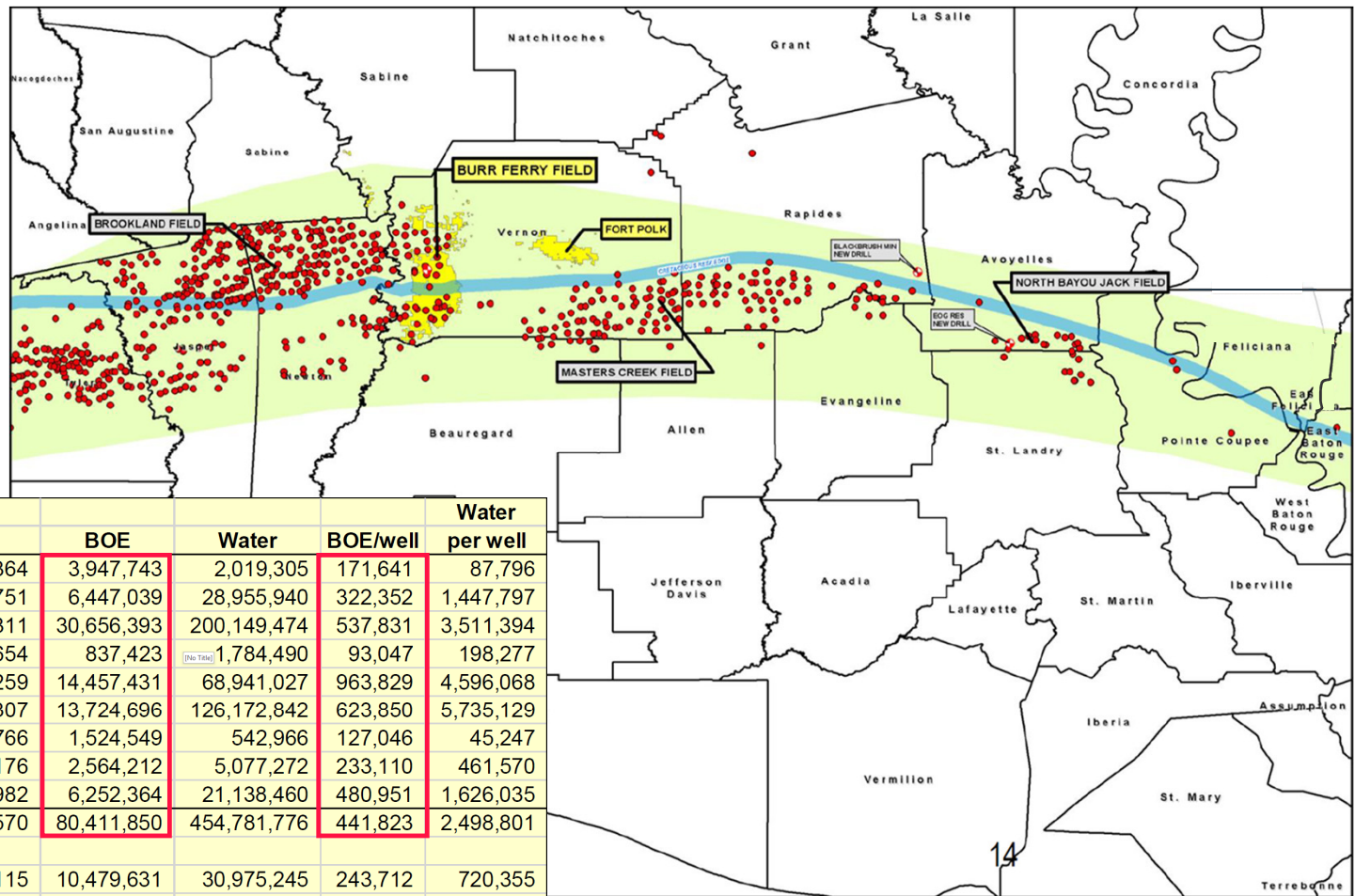
## Slide 6

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**PT1**

Paul Taranto, 2/25/2019

# Austin Chalk | Well Performance - Louisiana



Field	wells	Oil	Gas	BOE	Water	BOE/well	Water per well
Burr Ferry N	23	2,131,617	12,062,364	3,947,743	2,019,305	171,641	87,796
Burr Ferry S	20	2,974,161	20,180,751	6,447,039	28,955,940	322,352	1,447,797
Masters Creek	57	17,172,341	80,904,311	30,656,393	200,149,474	537,831	3,511,394
Masters Creek S	9	350,147	2,923,654	837,423	1,784,490	93,047	198,277
Masters Creek W	15	8,579,554	35,267,259	14,457,431	68,941,027	963,829	4,596,068
Sugartown	22	8,283,645	32,646,307	13,724,696	126,172,842	623,850	5,735,129
Bayou Jack N	12	1,372,255	913,766	1,524,549	542,966	127,046	45,247
Moncrief	11	1,827,016	4,423,176	2,564,212	5,077,272	233,110	461,570
Cheneyville W	13	3,324,867	17,564,982	6,252,364	21,138,460	480,951	1,626,035
<b>Total</b>	<b>182</b>	<b>46,015,603</b>	<b>206,886,570</b>	<b>80,411,850</b>	<b>454,781,776</b>	<b>441,823</b>	<b>2,498,801</b>
Burr Ferry Total	43	5,105,778	32,243,115	10,479,631	30,975,245	243,712	720,355
Masters Creek Total	103	34,385,687	151,741,531	59,675,942	397,047,833	579,378	3,854,833





## EOG makes a play in oil-rich Austin Chalk

BY TED GRIGGS | TGRIGGS@THEADVOCATE.COM SEP 6, 2017 - 11:18 AM 


### EOG's Avoyelles well produces 1,120 barrels of oil over 24 hours

BY TED GRIGGS | TGRIGGS@THEADVOCATE.COM OCT 12, 2017 - 8:02 AM 

### Lafayette-based PetroQuest acquires leases on 24,600 acres in Louisiana's Austin Chalk

Advocate staff report DEC 20, 2017 - 3:07 PM 

### ConocoPhillips' leases raises prospects for more activity in Louisiana's Austin Chalk formation

BY SAM KARLIN | SKARLIN@THEADVOCATE.COM APR 4, 2018 - 9:07 AM 

## Marathon Oil confirms it's latest major company exploring Louisiana's Austin Chalk

BY SAM KARLIN | SKARLIN@THEADVOCATE.COM MAY 3, 2018 - 7:54 AM 

# Austin Chalk | The Chalk Heats Up

## Early 2017

- Leasing in Central Louisiana.
- “EOG-ology”
- Bonus Prices \$200-\$300/ac

## Mid – Late 2017

- EOG: Eagle’s Ranch Well in Avoyelles Parish, LA.
- Leasing activity increases
- Bonus Prices \$500-800/ac
- Eagle’s Ranch Well comes on line
- COP acquires 86K ac. for USD 90 million

## 2018

- Leasing activity remains high
- Bonus Prices \$800-\$1,200/ac
- Well permitted

## 2019

- Test drilling and delineation
- Consolidation



## Austin Chalk | Where to from here

2019:

### **Operational Activities**

- Permitting and Unitization activities increasing across the state
- 3-D Seismic operations planned
- Start of drilling programs to delineate the play

### **Market Activities**

- Multiple positions on the market now
- Drilling results will dictate activity
- Consolidation



## Resurgence of the Louisiana Austin Chalk

Paul A. Taranto

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