

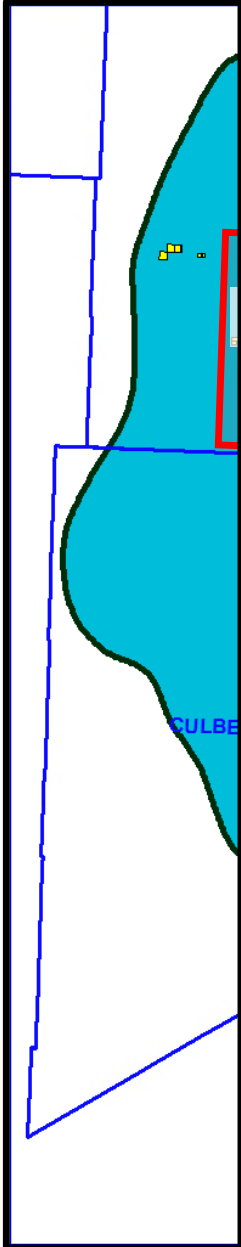


Longer, Better, Faster, Water

An Evolution of an Operator in the Delaware Basin

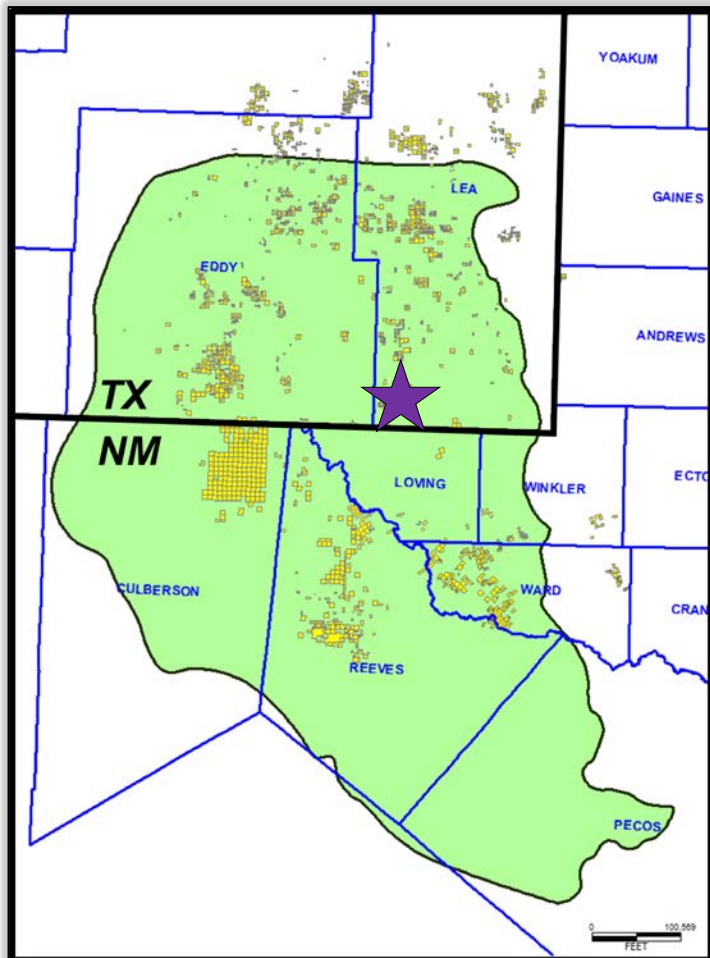
Rita Behm

Michael Swain

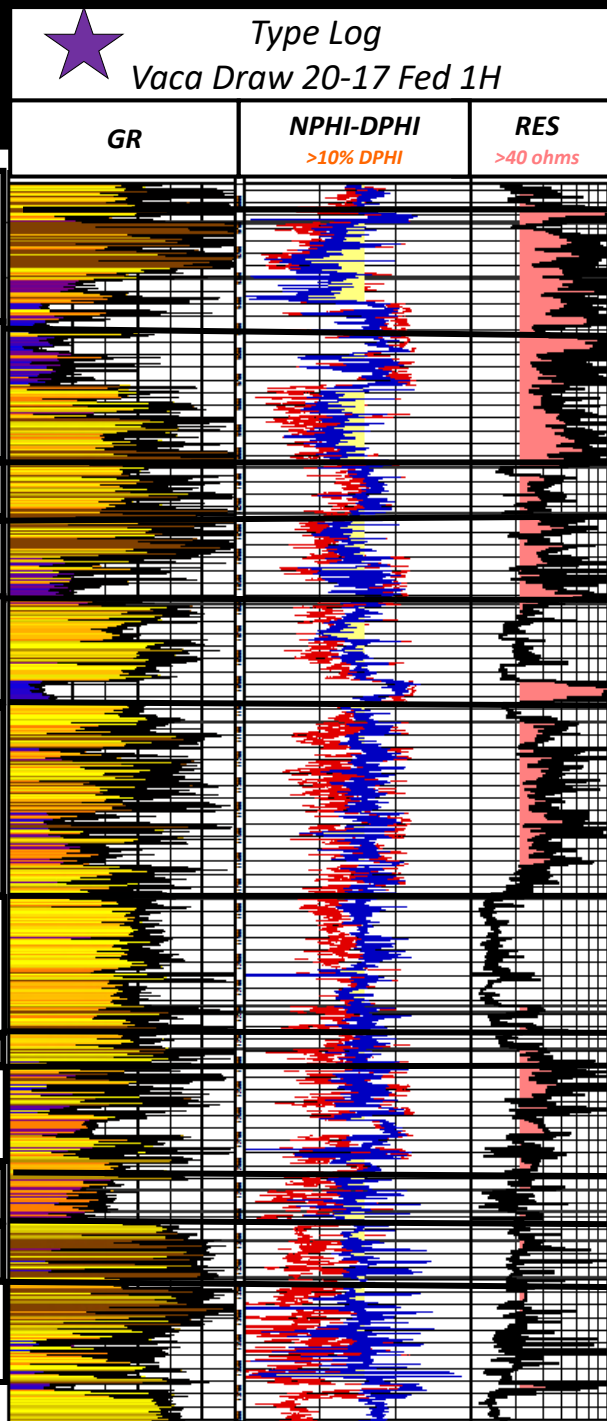


n
ic Crews
Drilling and
asin since
BOEPD
P-30 BOEPD

Delaware Basin Type Log



| |
|----------------------------------|
| Leonard Shale |
| Avalon Shale |
| 1 st Bone Spring Sand |
| 2 nd Bone Spring Carb |
| 2 nd Bone Spring Sand |
| 3 rd Bone Spring Carb |
| 3 rd Bone Spring Sand |
| Wolfcamp XY |
| Wolfcamp A |
| Wolfcamp B |
| Wolfcamp C |
| Wolfcamp D |



- XEC Currently Executes 11 Distinctive Productive Targets Across our Acreage
- Each Productive Target Presents its own Challenges in Terms of Drilling, Completing, and Producing
- Targets Can Require Many Different Spacing Configurations to Realize Full Development

Cimarex Producing Areas

Red Hills

Dixieland

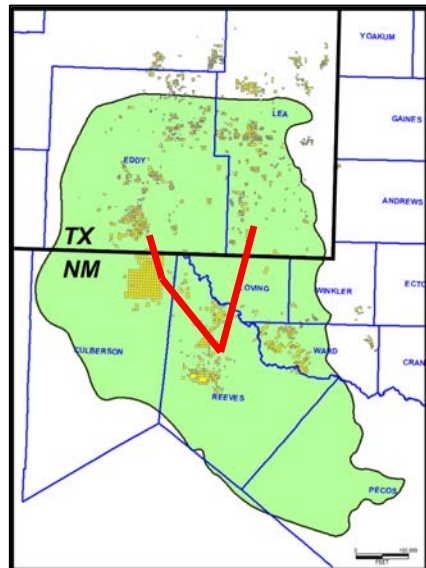
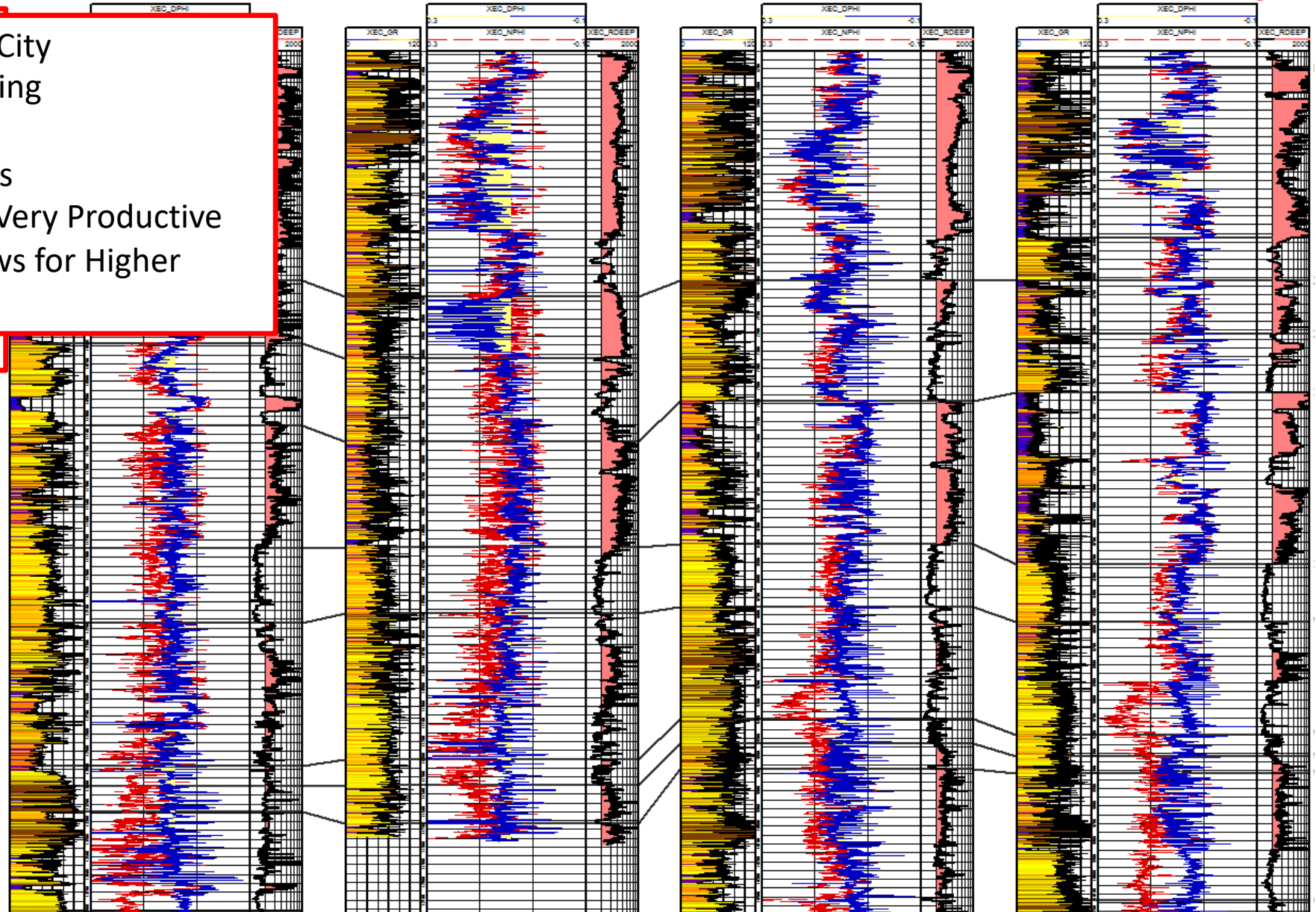
Culberson

White City

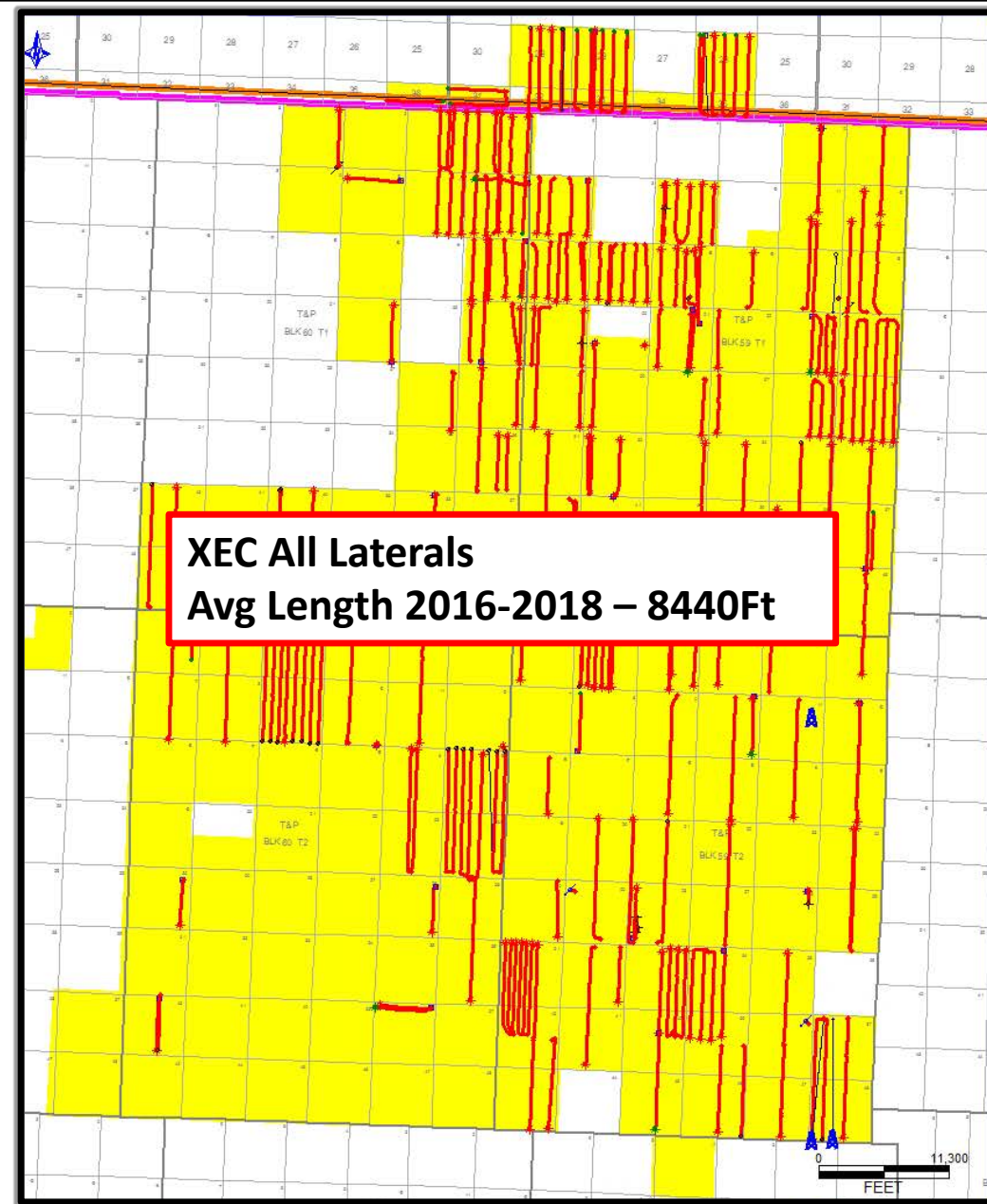
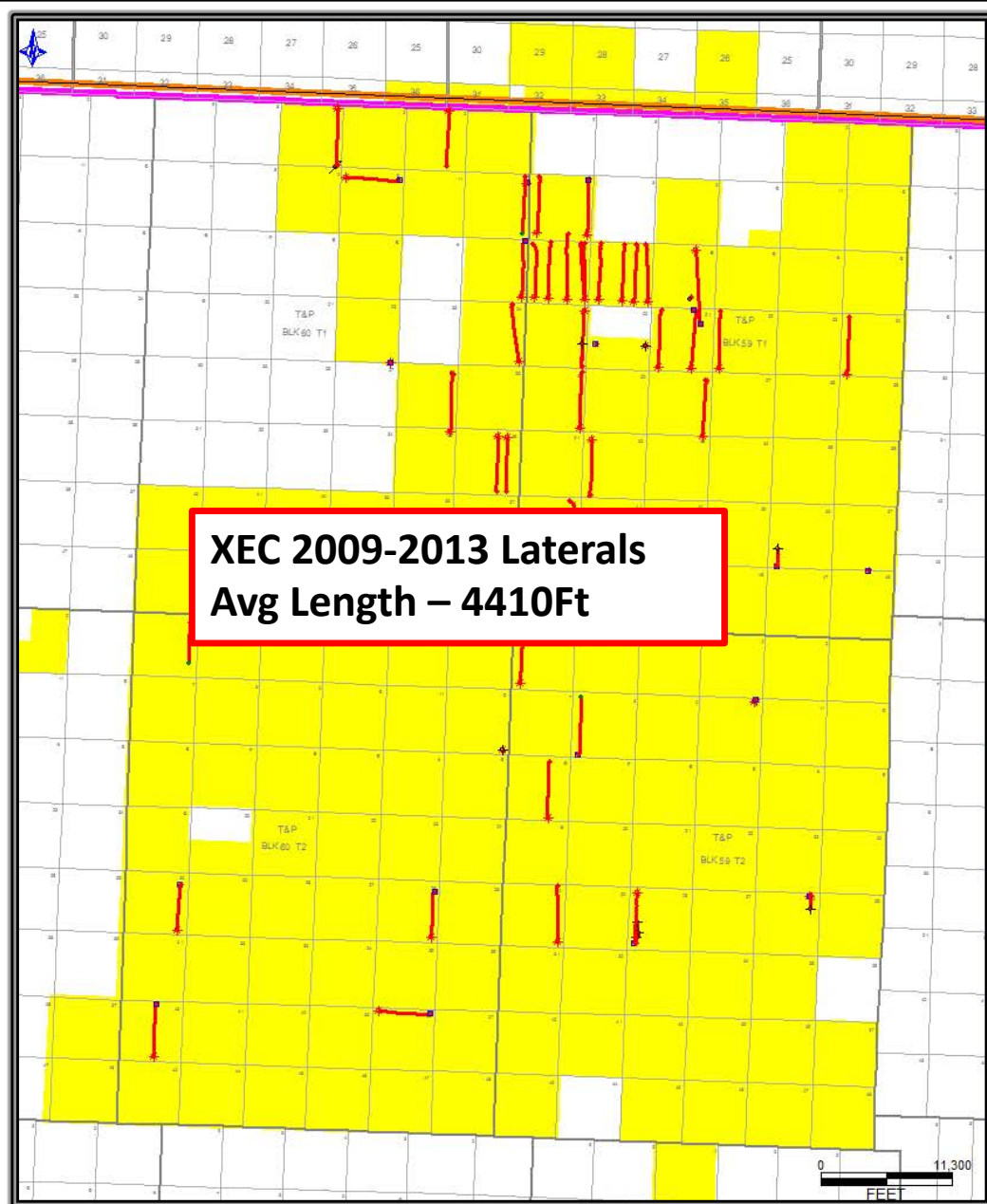
Red Hills
Bottom
Most
Oil P
8 Pro
Char
Water Cu
Highest Pressure in Basin

Dixieland
Distal
Oil P
5 Pro
Char
Fault
Water Cu

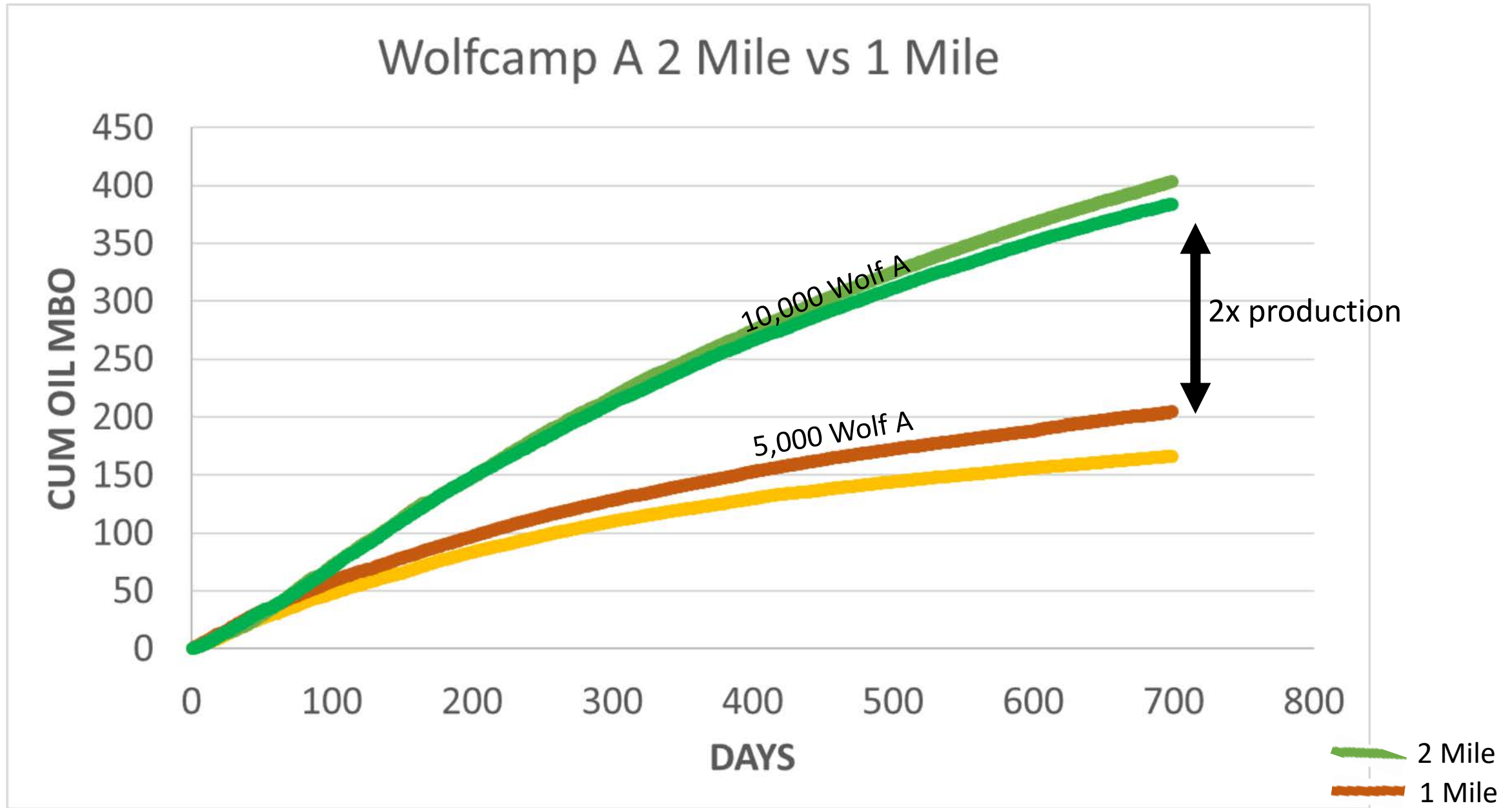
Culberson – White City
More Proximal Setting
Gas Prone
6 Productive Targets
Wolfcamp C-D Are Very Productive
Gas Producing allows for Higher Recoveries



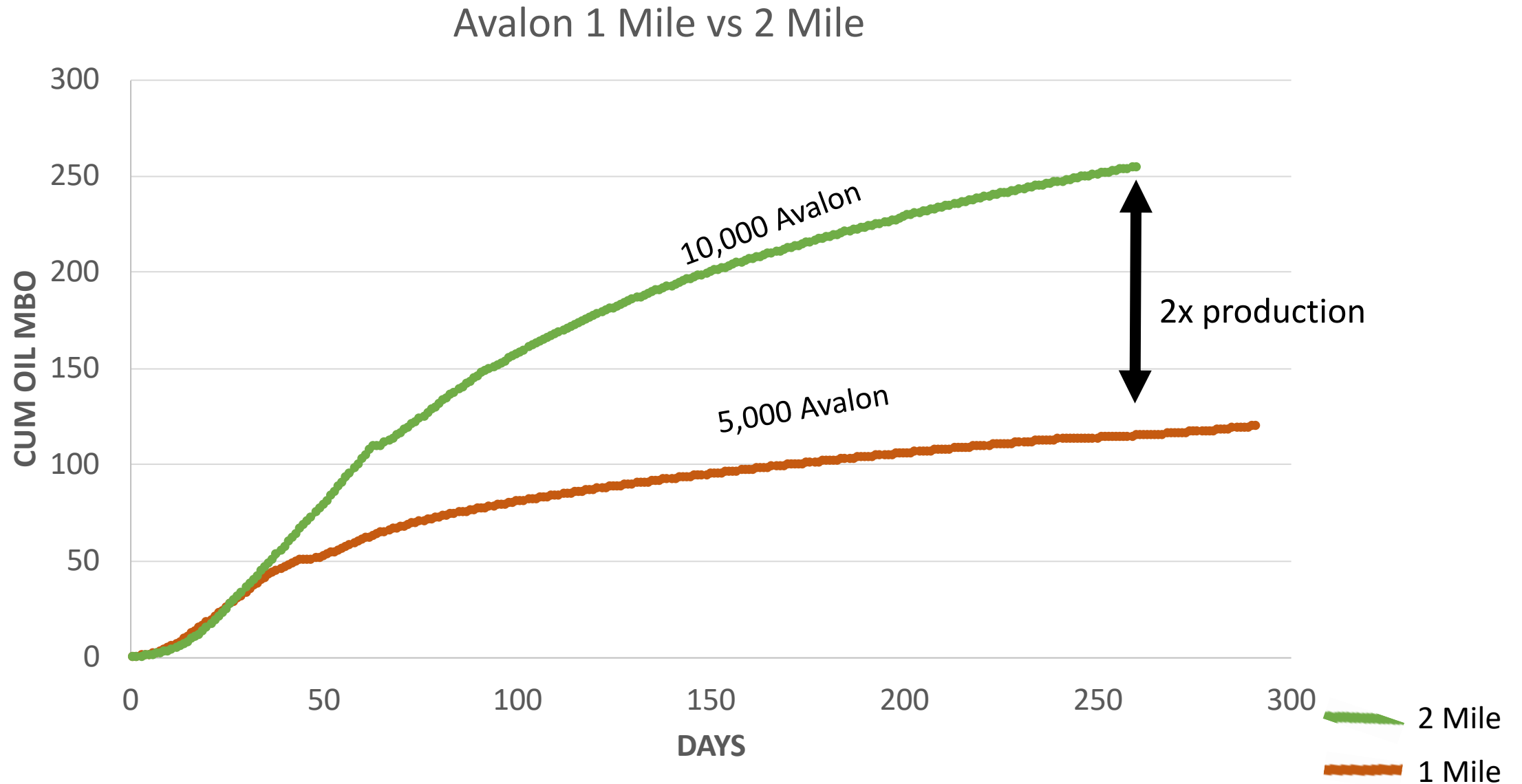
Longer – XEC Culberson County



Lateral Length Impact on Production



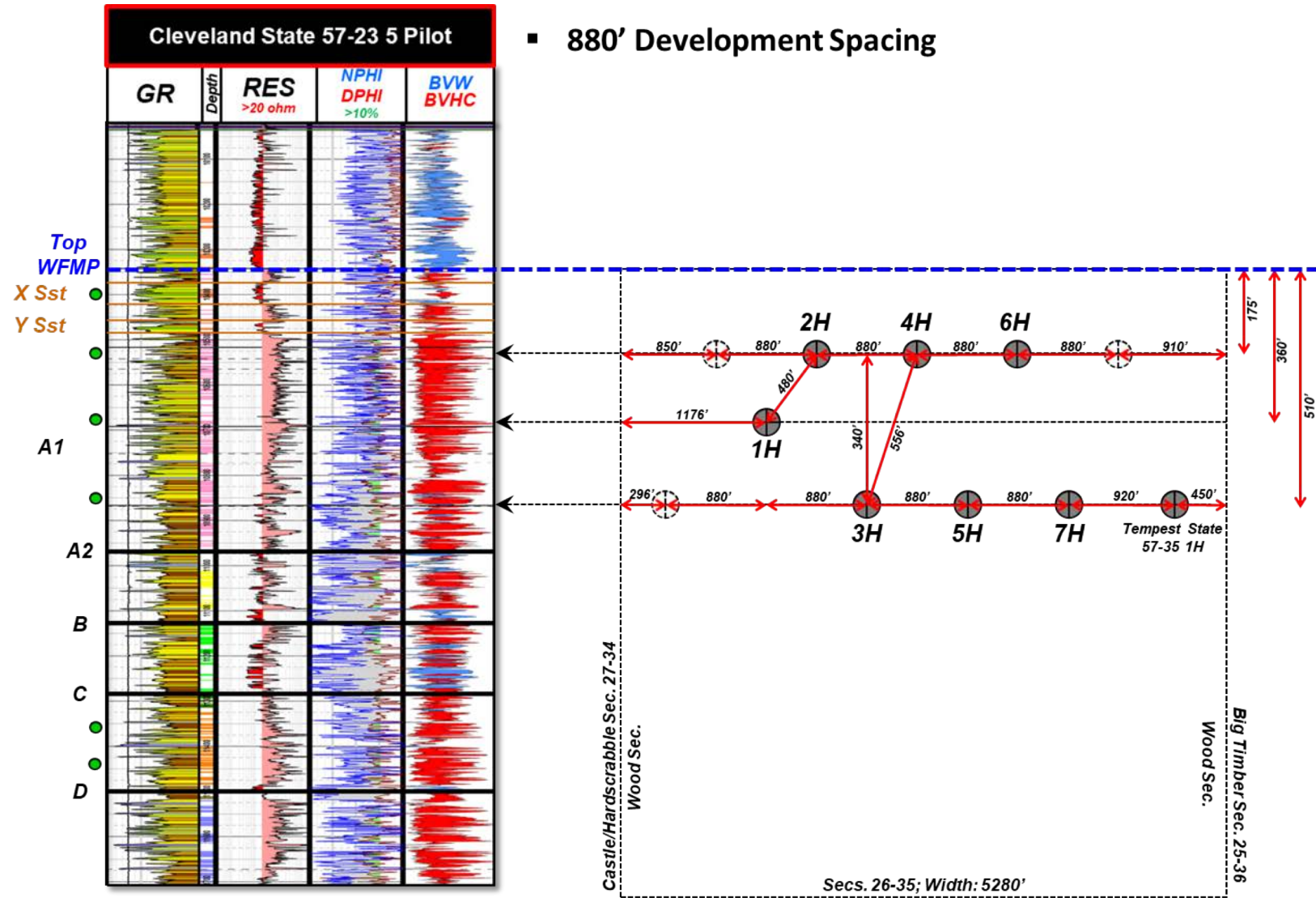
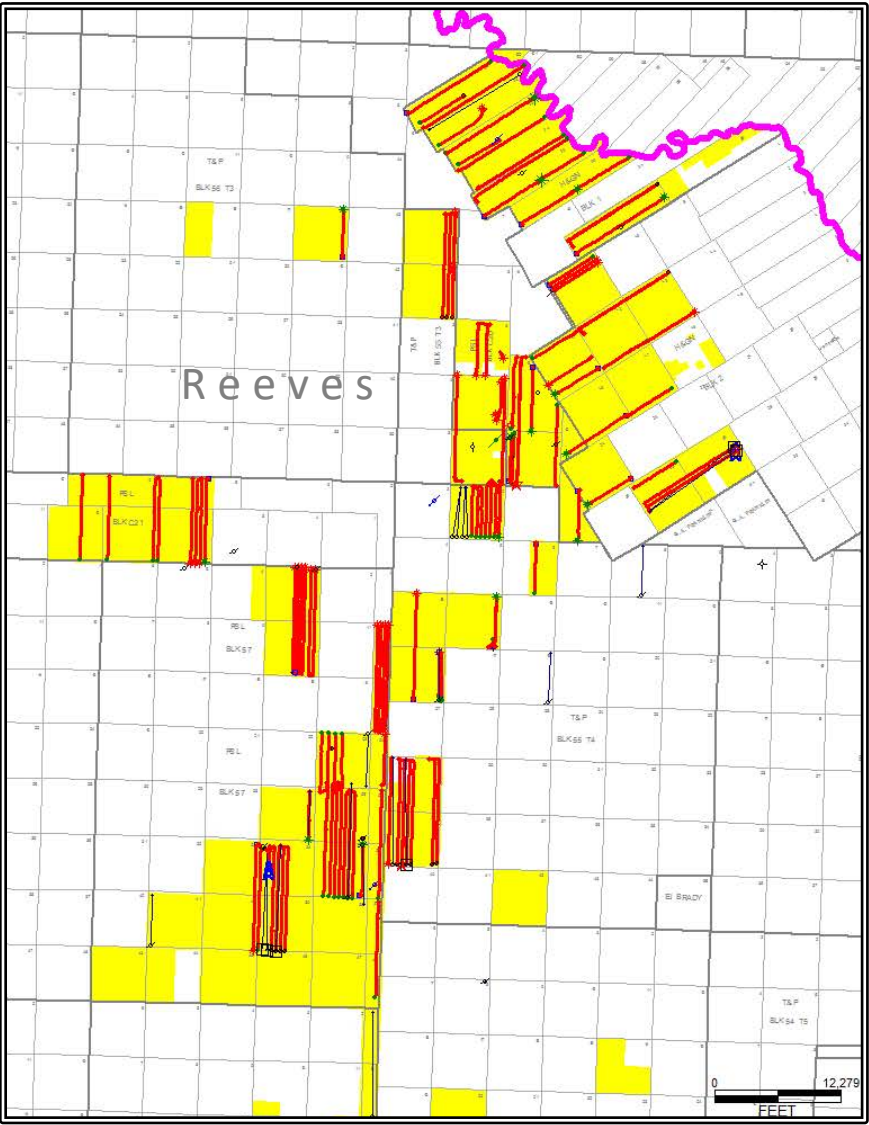
Lateral Length Impact on Production



Better – XEC Reeves County

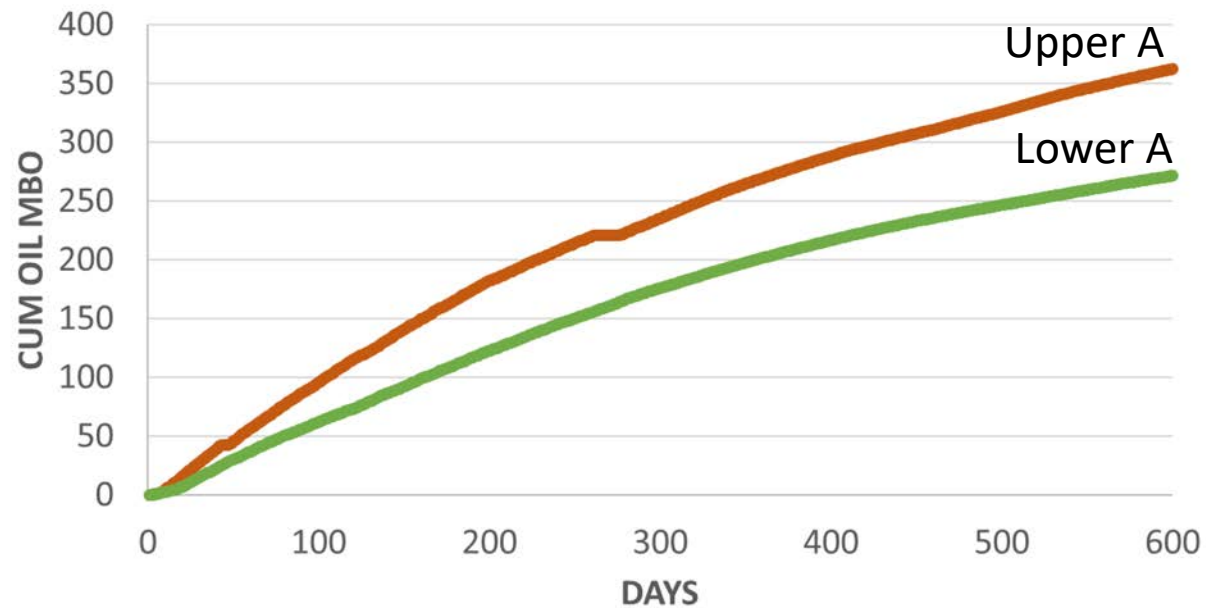
- **How can we make wells better? (At a given Location)**
- **Drill the wells Longer (Previously discussed)**
- **Target a Different Landing Zone**
- **Frac the Wells Differently**

Better – XEC Reeves County

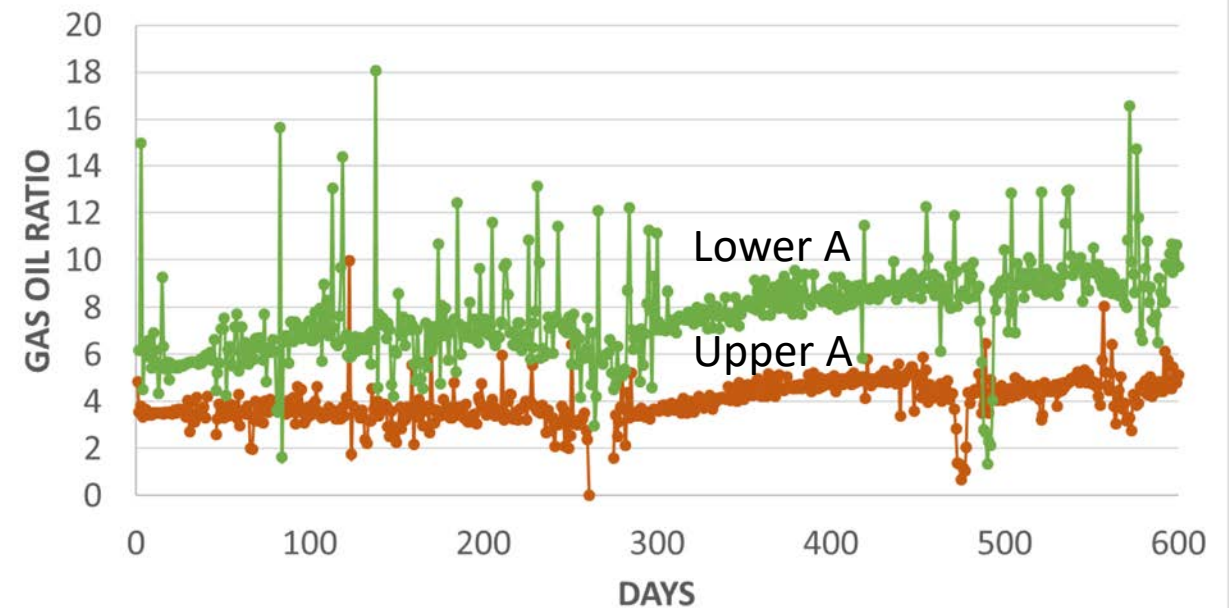


Better – Impact of Landing Zone on Production

Upper Reeves Oil vs Lower Reeves Oil



Upper Reeves GOR vs Lower Reeves GOR

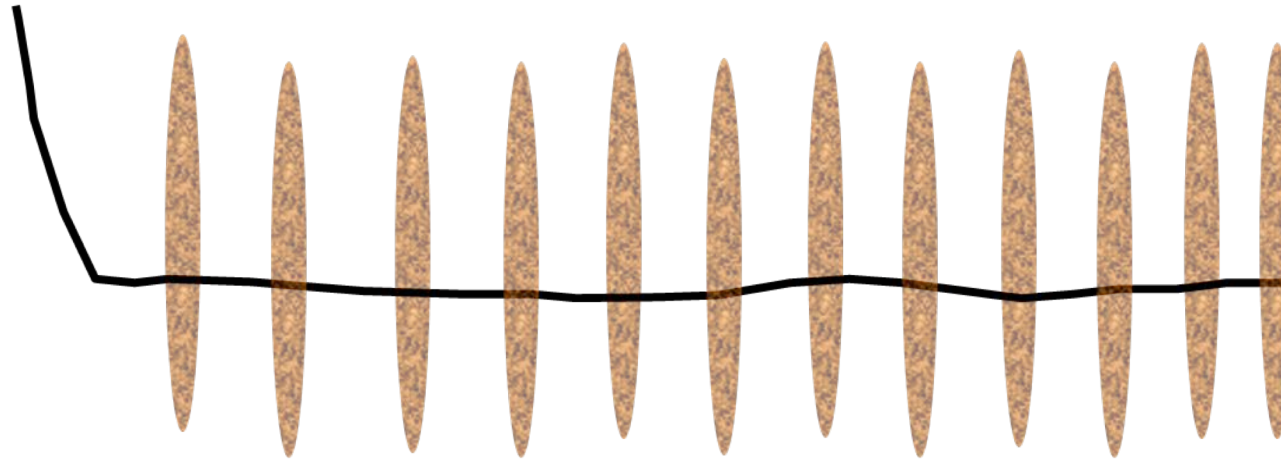


Lower A
Upper A

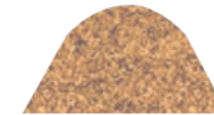
Better – Not only Larger Fracs, but Smarter Fracs



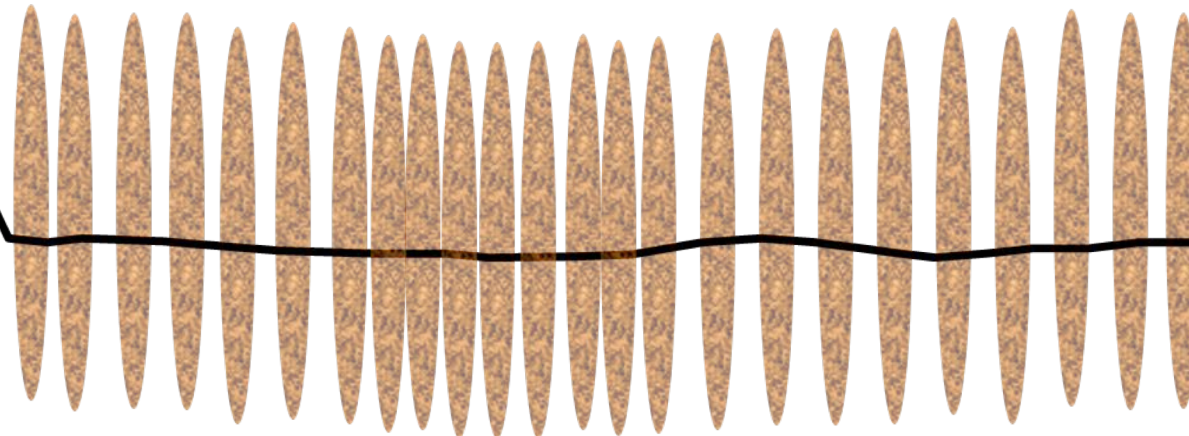
OLD FRAC DESIGN – Bone Spring



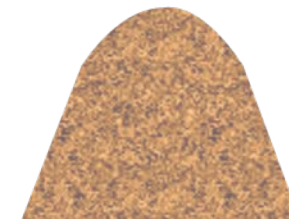
12 Stages – 1 Mile
340,000 lbs/stage
4,000,000 lb/job
930 lb/ft



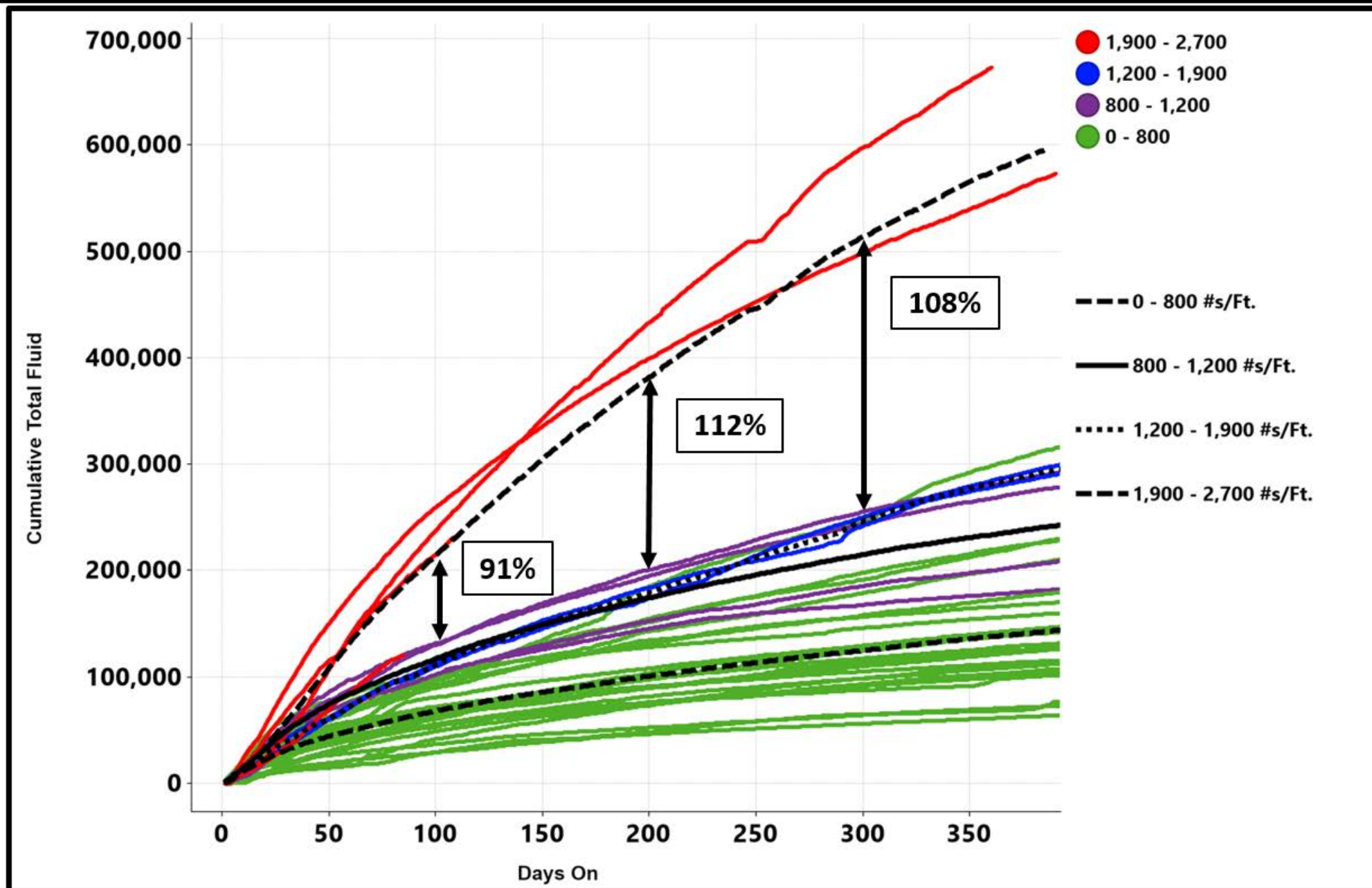
NEW FRAC DESIGN – *Bone Spring*



40 Stages – 2 Mile
625,000 lbs /stage
24,000,000 lbs/job
2400 lb/ft

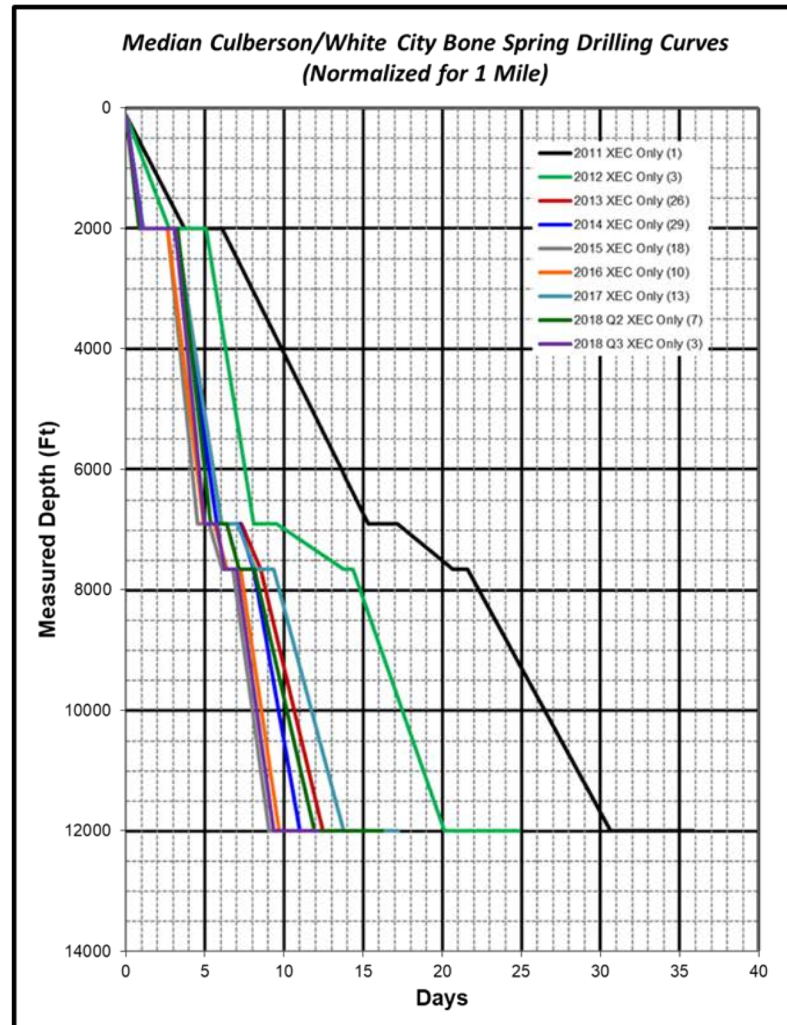


Better – Impact of #/Ft On Production



Faster –

White City – Culberson Bone Spring



Median Days

XEC Only

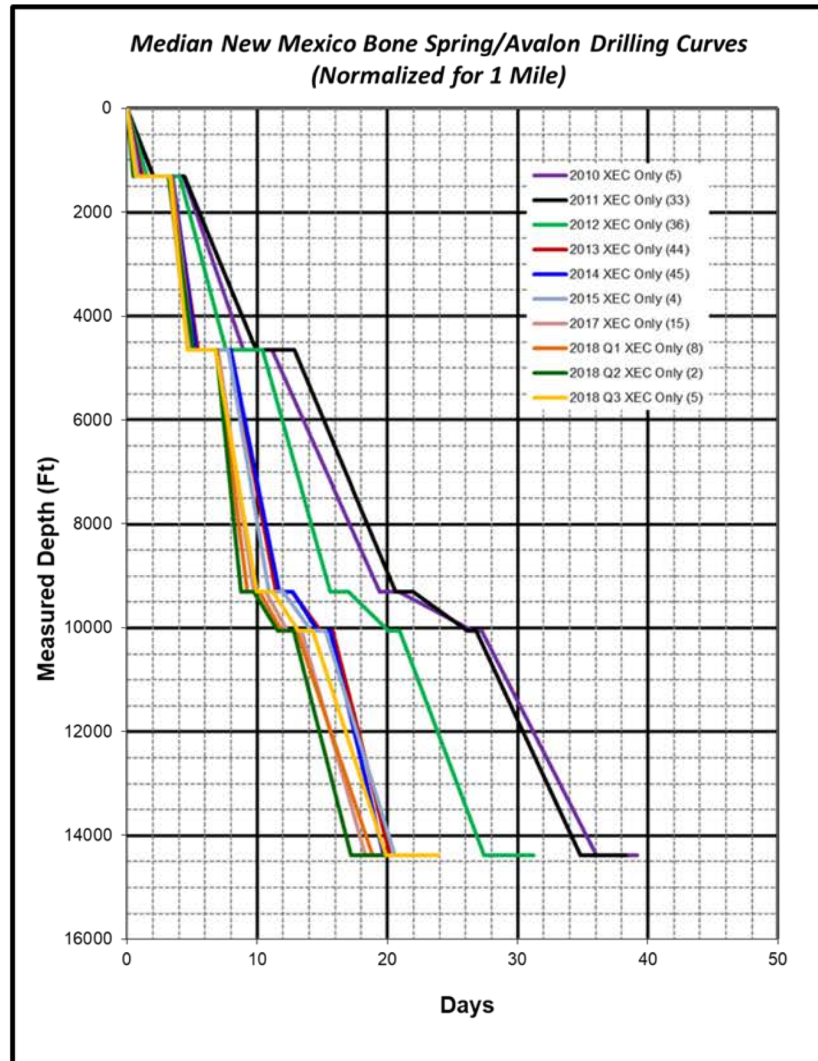
Normalized 1 Mile Lateral (12,000' MD)

Spud To TD

| | | |
|-------------|------|------|
| 2011 (1) | 30.6 | |
| 2012 (3) | 20.2 | |
| 2013 (26) | | 12.5 |
| 2014 (29) | | 11.0 |
| 2015 (18) | | 9.0 |
| 2016 (10) | | 9.7 |
| 2017 (13) | | 13.8 |
| 2018 Q2 (5) | | 11.9 |
| 2018 Q3 (3) | | 9.4 |

Faster –

NM Bone Springs & Avalon



Median Days

XEC Only

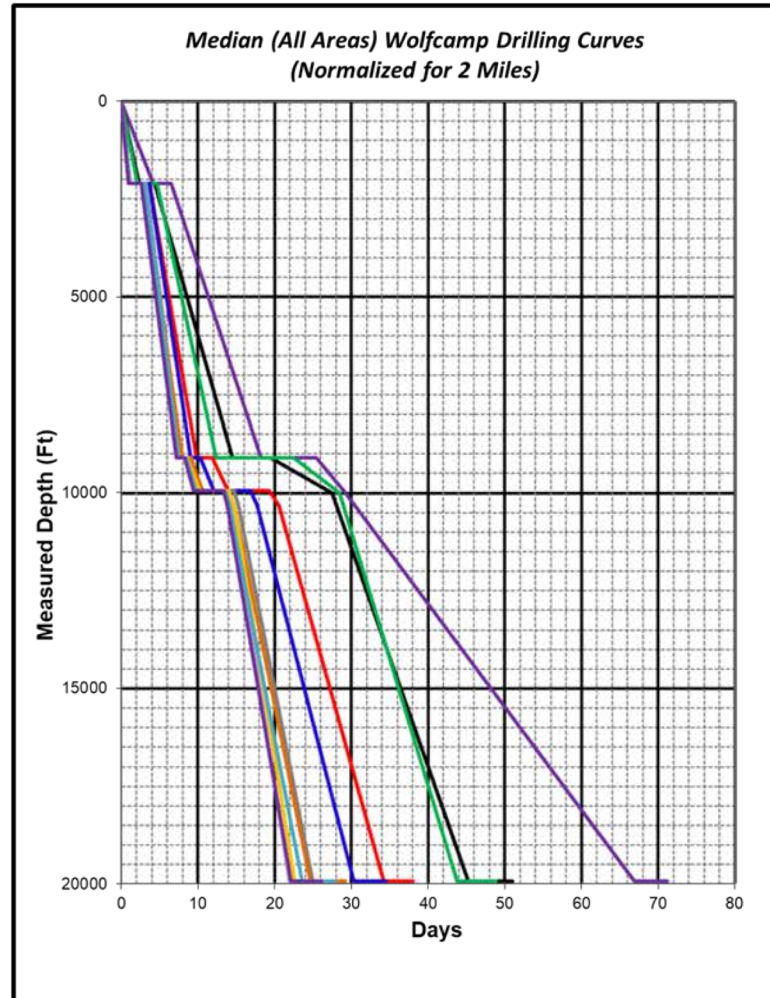
Normalized 1 Mile Lateral (14400' MD)

Spud To TD

| | | |
|-------------|------|------|
| 2010 (5) | 36.0 | |
| 2011 (33) | | 34.8 |
| 2012 (36) | | 27.4 |
| 2013 (44) | | 20.2 |
| 2014 (45) | | 19.7 |
| 2015 (4) | 20.6 | |
| 2017 (15) | | 18.3 |
| 2018 Q1 (8) | | 18.9 |
| 2018 Q2 (2) | | 17.2 |
| 2018 Q3 (5) | | 19.9 |

Faster –

Wolfcamp



Median Days

XEC Only

Normalized 2 Mile Lateral (19,925' MD)

Spud To TD

| | |
|--------------|------|
| 2010 (4) | 66.9 |
| 2011 (6) | 45.3 |
| 2012 (13) | 43.8 |
| 2013 (25) | 34.2 |
| 2014 (67) | 30.3 |
| 2015 (34) | 24.9 |
| 2016 (37) | 24.6 |
| 2017 (44) | 21.9 |
| 2018 Q1 (20) | 22.6 |
| 2018 Q2 (21) | 23.6 |
| 2018 Q3 (14) | 22.1 |

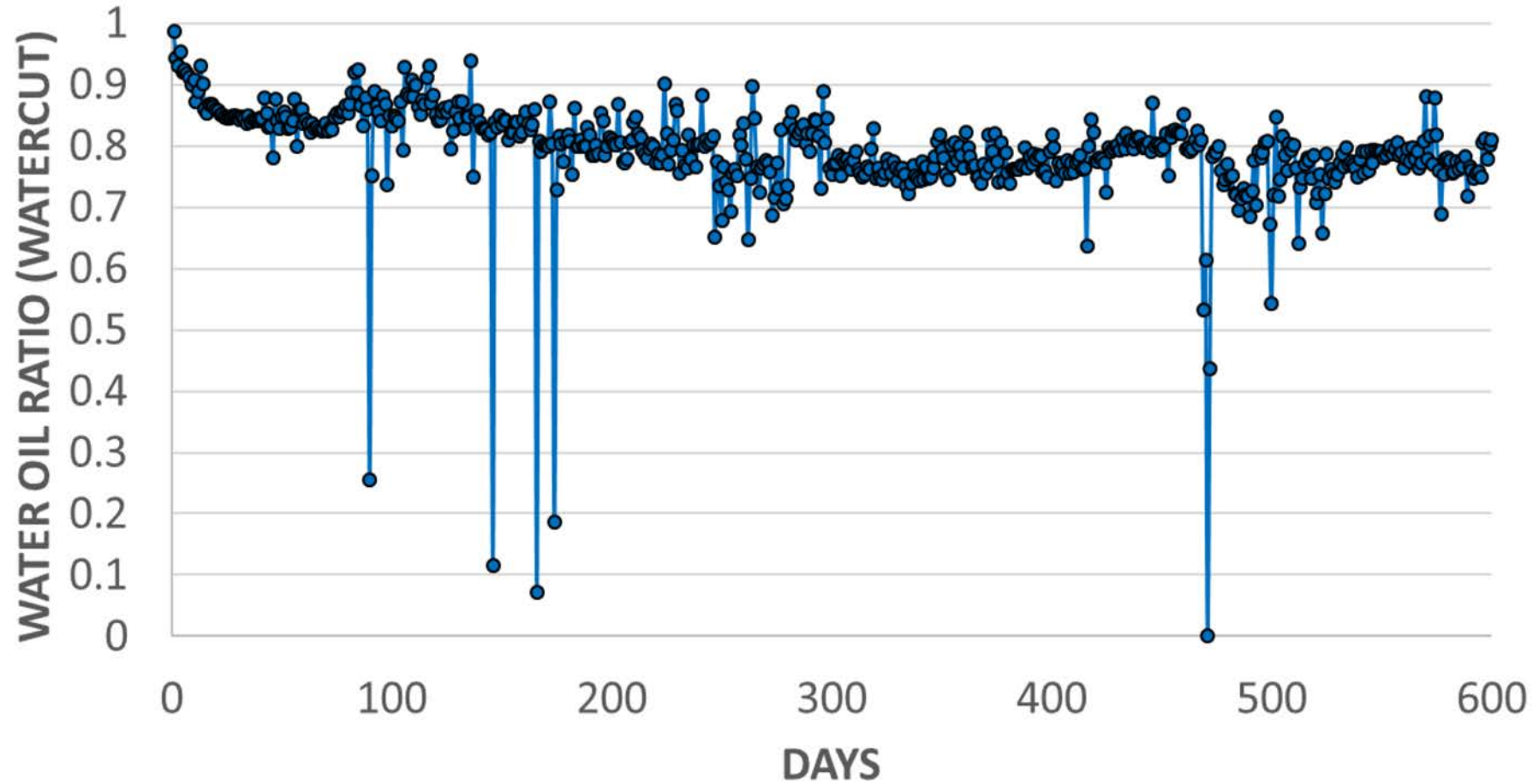
Water



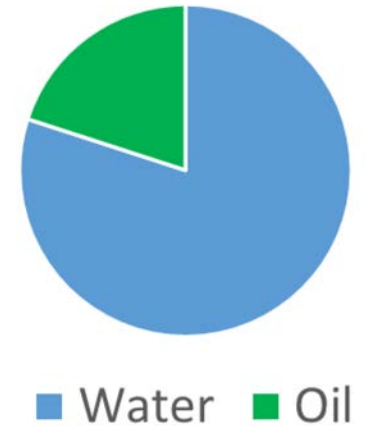
If you Operate in the Delaware Basin, its All about the Water

Water Production

Upper Reeves WOR vs Lower Reeves WOR



WOR Reeves County



Water Production

1 Well = 1,000,000 BO and 8,000,000 BW (4,000 BWPD)

1 SWD = 40,000 BWPD

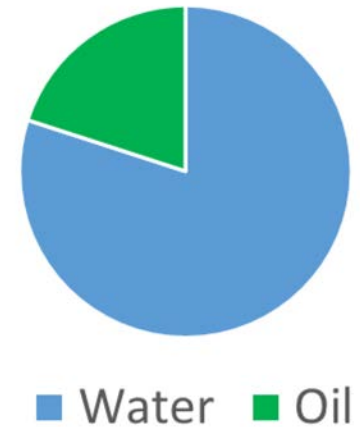
1 Section = 12,000,000 BO and 96,000,000 BW (48,000 BWPD)

1 Section = 2 SWDs

4 Sections = 48,000,000 BO and 384,000,000 BW (192,000 BWPD)

4 Sections = 5 SWDs

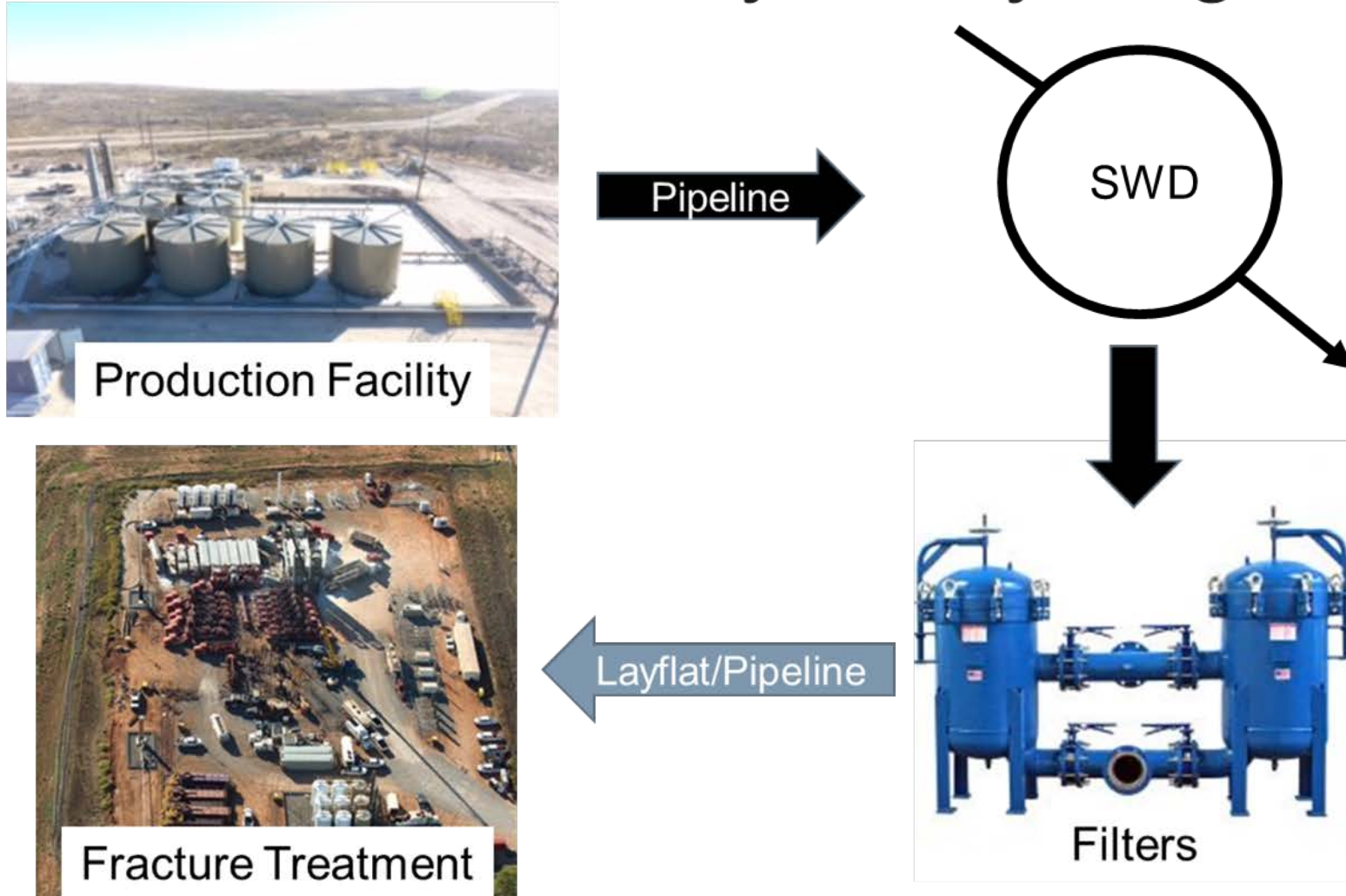
WOR Reeves County



Assumes 12 well spacing

Water – XEC Water Recycle

Cimarex's “On-the-Fly” Recycling Process



Water – XEC Water Recycle

- **Pros**
 - **No Capital Outlay**
 - **Less Operational Maintenance**
 - **Reduced Environmental Liability**
 - **No Pulling Water out of the Water Cycle**
- **Cons**
 - **Field Limited on Water Production**
 - **Disposal of Solids**
 - **Balancing Water Disposal with Frac Operations**

Questions