The Boom of 2017
Last Year’s First Slide
This Year’s First Slide
Last Year’s Forecast

![Graph showing US Drilling Rigs and Oil Price](chart.png)
Thank You, OPEC
Actual

US Drilling Rigs

Oil Price

H1 14  H2 14  H1 15  H2 15  H1 16  H2 16

$0  $25  $50  $75  $100  $125

Rigs

Oil Price

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Reservoir-Feet of Hole

Lateral Feet Drilled (millions)

- 75
- 50
- 25
- 0

Lateral Feet

Oil Price

- $125
- $100
- $75
- $50
- $25
- $0

H1 14  H2 14  H1 15  H2 15  H1 16  H2 16

Oil Price

$0 $25 $50 $75 $100 $125
2016 Niobrara Laterals

TD Date vs Lateral Length
(Extraction Oil & Gas)

Here we see drilling on multi well pads. Laterals tend to be uniform on each pad.
2016 Bakken Laterals

TD Date vs Lateral Length
(Continental Resources)

Here we see Continental drill extremely long laterals due to geography
Here we see Concho increasing its use of 11,000’ laterals while not abandoning 5,000’.
2016 Permian Laterals

This is a graph of all Permian horizontal wells. 3 clusters emerge: 5k’, 8k’ and 11k’ drilling.
2016 US Laterals

TD Date vs Lateral Length

This is a graph of all US horizontal wells. 3 clusters emerge: 5k’, 8k’ and 11k’ drilling.
Frac Stages Pumped

Permian

<table>
<thead>
<tr>
<th>Year</th>
<th>Stages Pumped</th>
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<tbody>
<tr>
<td>2013</td>
<td>20,000</td>
</tr>
<tr>
<td>2014</td>
<td>80,000</td>
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<tr>
<td>2017</td>
<td>180,000</td>
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<tr>
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Frac Stages Pumped

Bakken

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Frac Stages Pumped

Total US

<table>
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<td>300,000</td>
</tr>
<tr>
<td>2018</td>
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This is a graph of the product line sales of several NoAm-land focused firms. Stability at the bottom finally.
Offshore Quarterly Revenues

This is a graph of the product line sales of several offshore focused firms. Decline is accelerating.
Global Revenues of All OFS Companies (Millions)

- Global OFS sales bottom in 2016, down >50% from the 2014 peak. 2017 is up 8%.
Oilfield E/S Markets - Land

Global Revenues of Land-Focused OFS Companies (Millions)

Global OFS sales of land-focused products/services. 2016 is the bottom and 2017 is up 20%.
Global Revenues of Offshore-Focused OFS Companies ( Millions)
Global Revenues of All OFS Companies (Millions)

Global OFS sales bottom in 2016, down >50% from the 2014 peak. 2017 is up 8%.
Land Drilling Markets

Global Revenues of Land Contract Drillers (Millions)
Frac Markets

Global Revenues of All Frac Companies (Millions)

<table>
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<th>Year</th>
<th>Revenues (Millions)</th>
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<tr>
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Offshore Drilling Markets

Global Revenues of Offshore Contract Drillers (Millions)