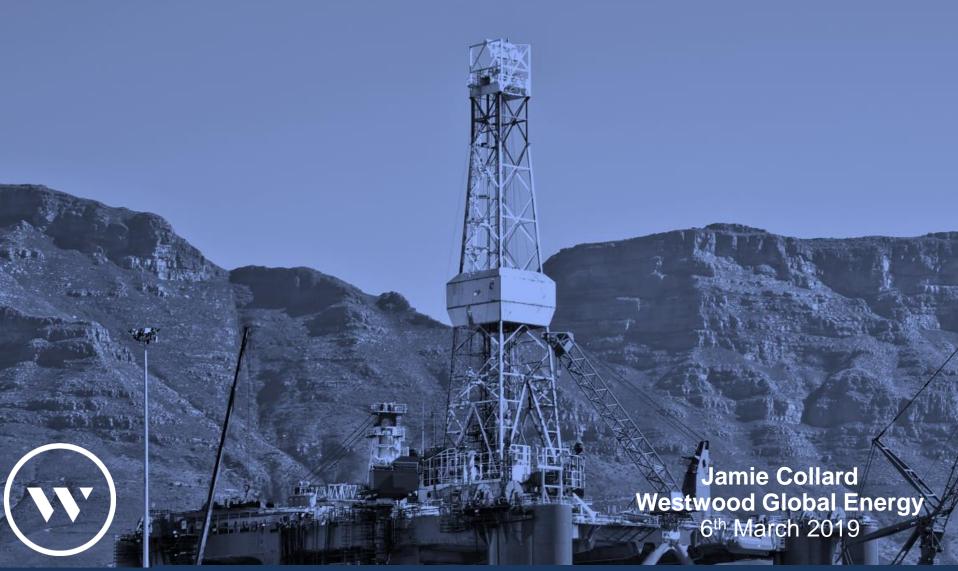
Key Wells to Watch in 2019 APPEX Global 2019



Agenda

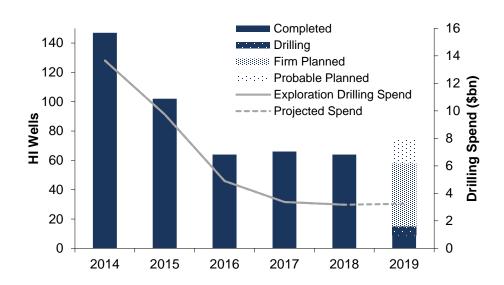


Five year high-impact exploration performance and 2019 lookahead

Hits and misses and key wells to watch in 2019

2014-2019 High-Impact Exploration

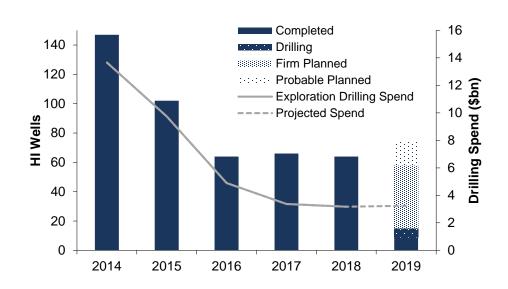


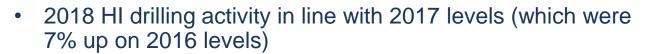


- 2018 HI drilling activity in line with 2017 levels (which were 7% up on 2016 levels)
- 2019 HI drilling programme still fluid Westwood expect base case of 55 wells, with ~15 further possible
- Drilling spend expected to be marginally higher (<5%)

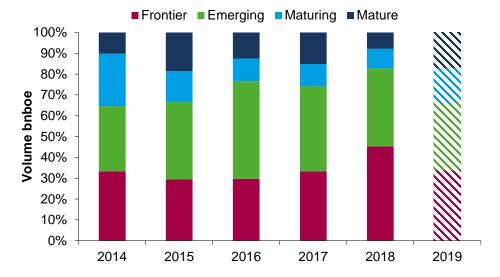
2014-2019 High-Impact Exploration







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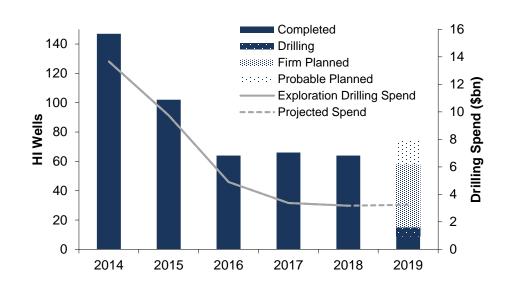


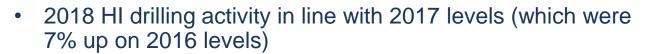
 Increase in proportion of high-impact wells targeting frontier plays (from 28% in 2016 to 44% in 2018), but 2019 expected to see a return of HI wells in mature plays

Westwood defines high-impact exploration wells as >100mmbbls oil or >1tcf gas pre-drill

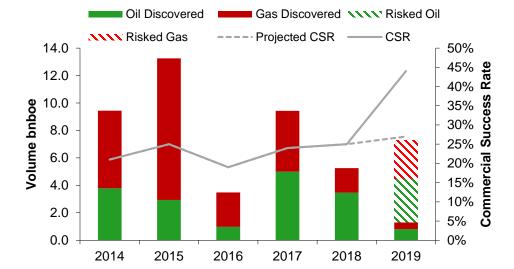
2014-2019 High-Impact Exploration







- 2019 HI drilling programme still fluid Westwood expect base case of 55 wells, with ~15 further possible
- Drilling spend expected to be marginally higher (<5%)



- HI exploration success rates at 27% in 2018 a 5-year high
- Overall volumes discovered greater than 2016, and oil volumes similar to 2017
- Very positive start to 2019 HI exploration
- 2019 volumes split almost 50:50 gas and oil-pre drill.

Westwood defines high-impact exploration wells as >100mmbbls oil or >1tcf gas pre-drill

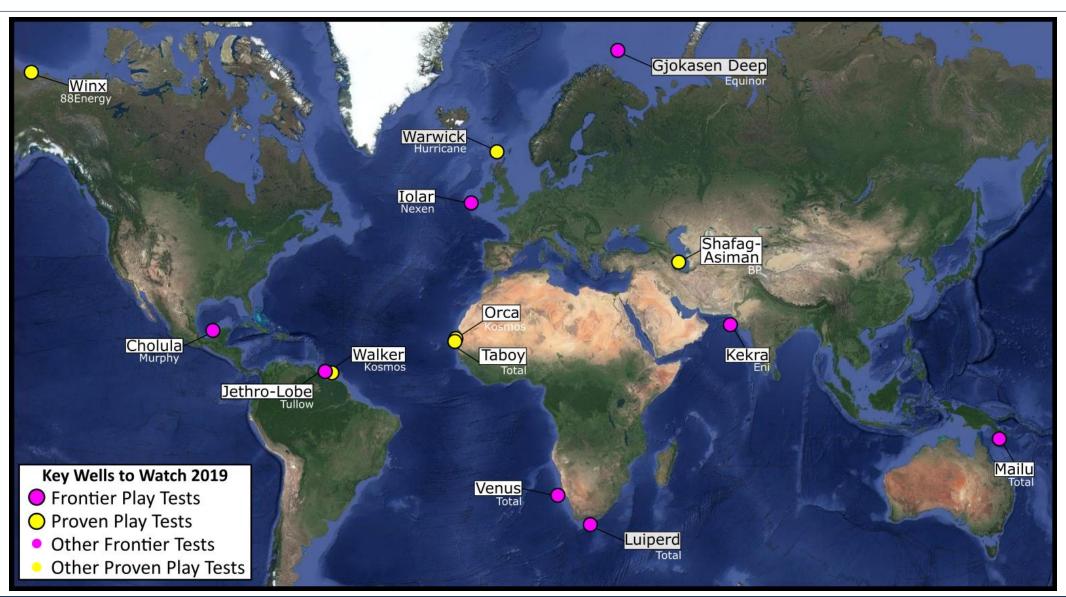
2019 HI Exploration





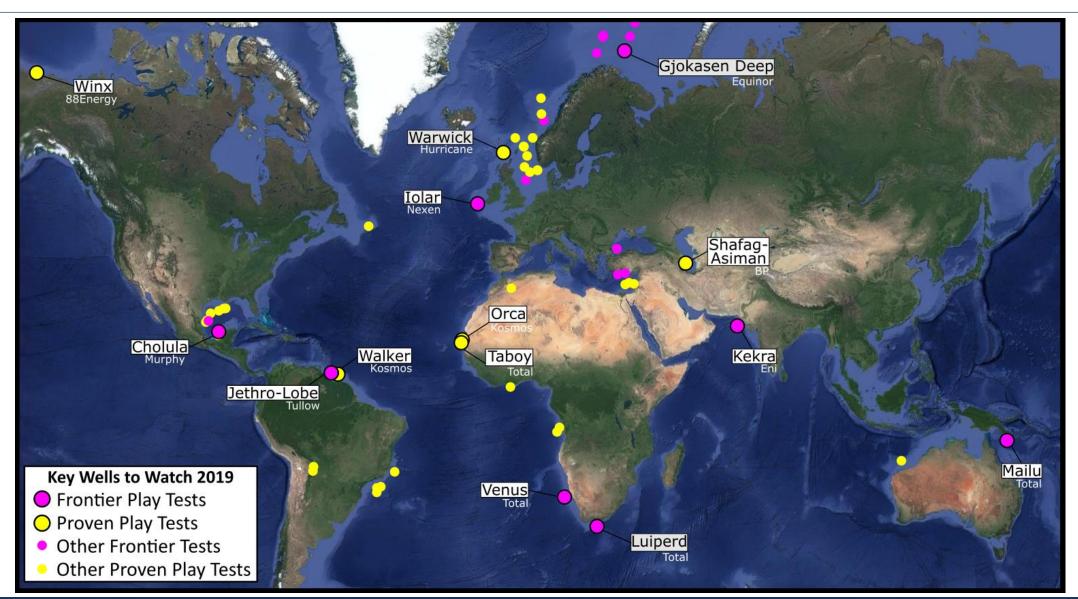
2019 Key wells to watch





2019 Key wells to watch

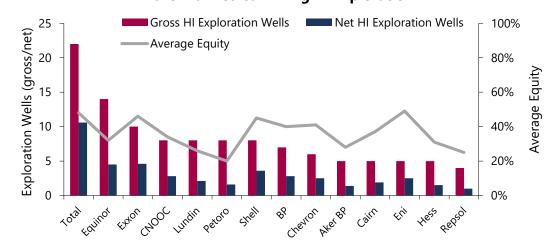




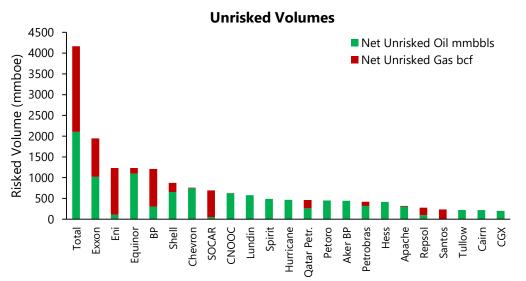
2019 High-Impact Drilling - Companies

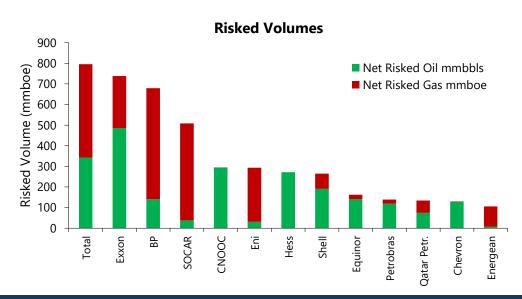


2019 Planned & Drilling HI Exploration



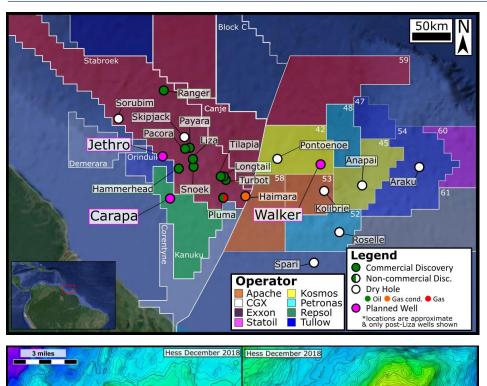
- Total projected to be most active HI explorer with equity in >20 wells forecast
- Exxon estimated to be testing greatest risked oil volume (Guyana), and BP testing greatest risked gas volume (Azerbaijan)

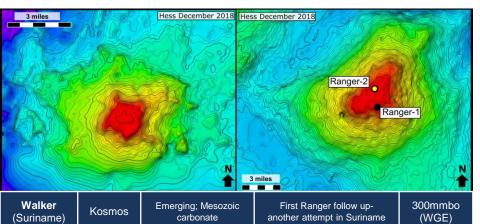


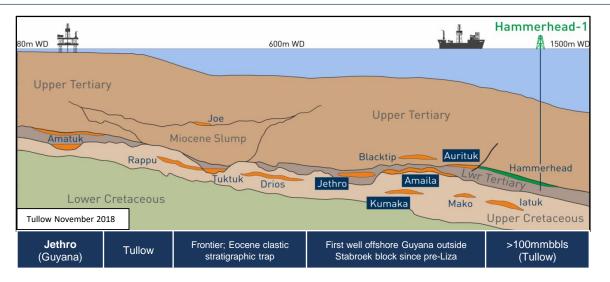


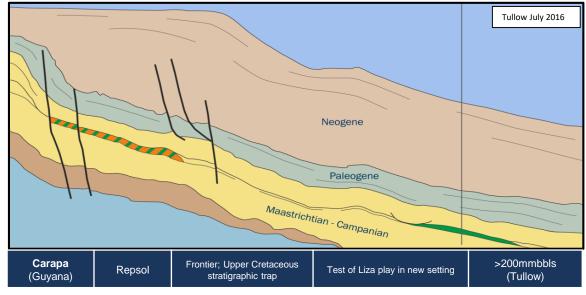
South America Key Region – Suriname-Guyana







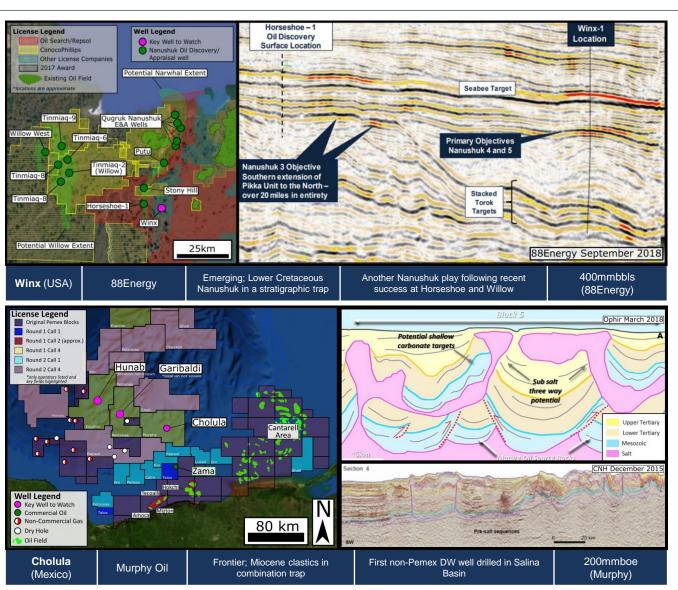




North America

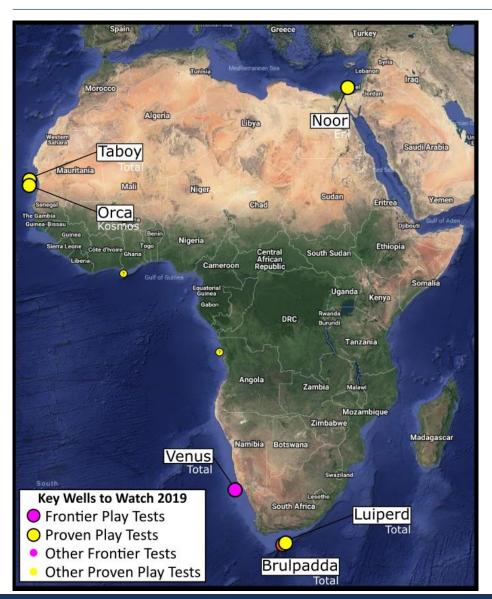


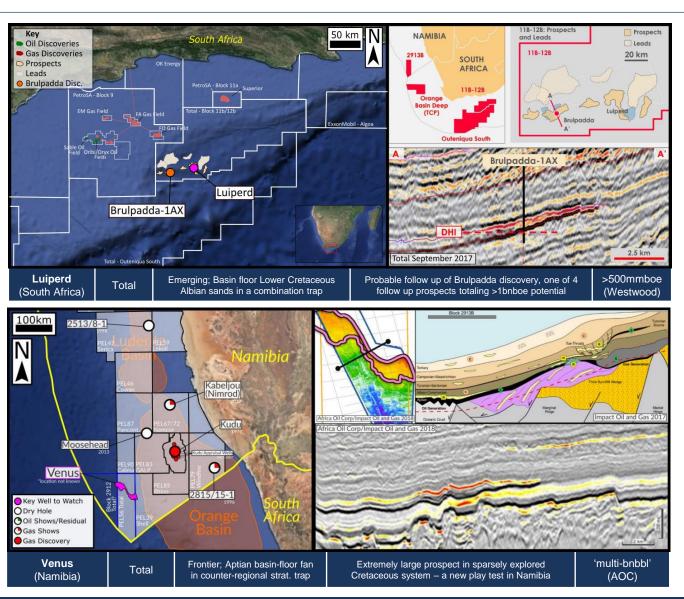




Africa

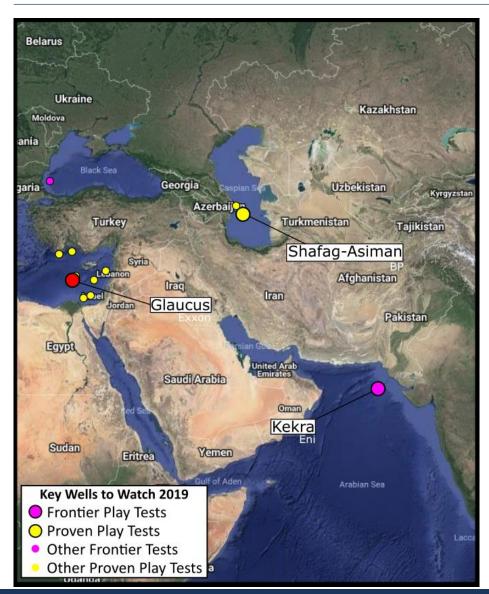


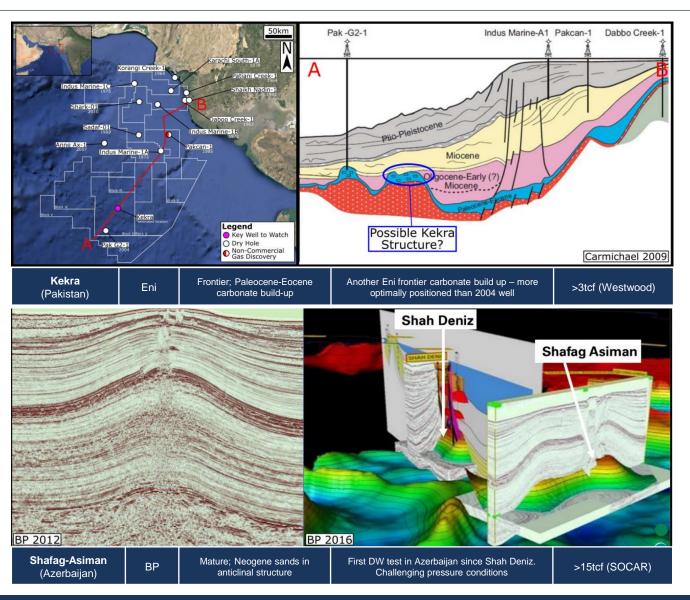




Central Europe - Asia

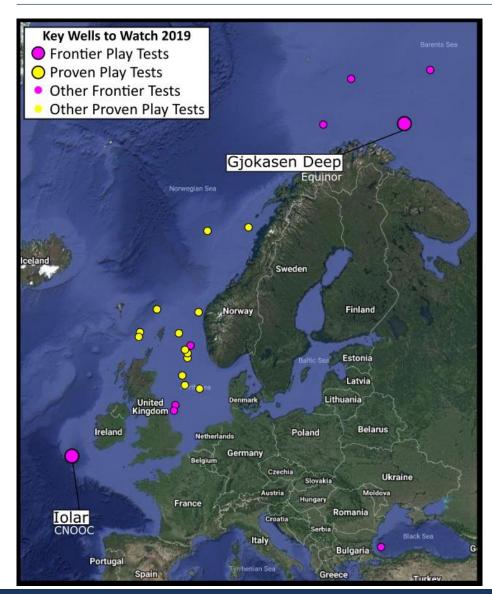


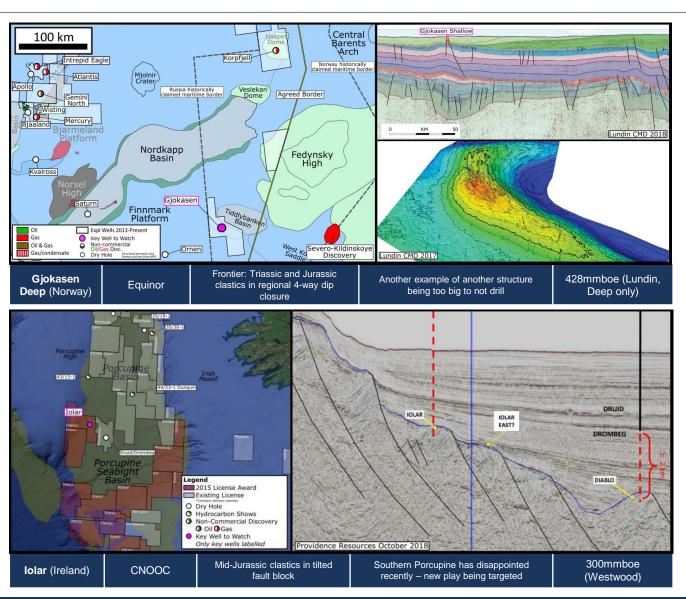




Europe







2019 Key wells to watch



