

An underwater scene showing large industrial pipes and a diver. The scene is dimly lit with a blue-green hue. A diver is visible in the center, working on a pipe. Large pipes with flanges are prominent in the foreground and background. The overall atmosphere is industrial and deep-sea.

Chevron

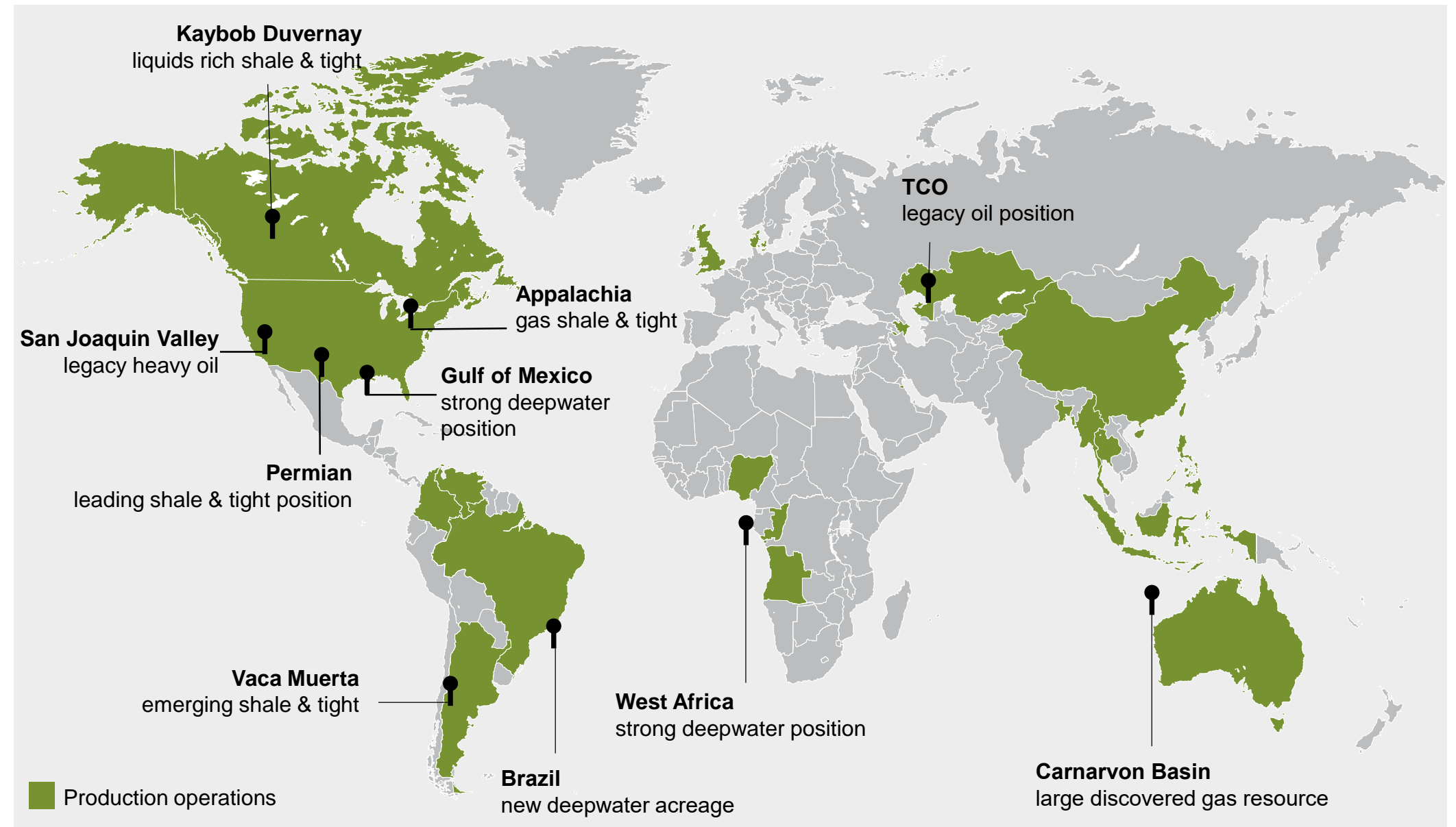
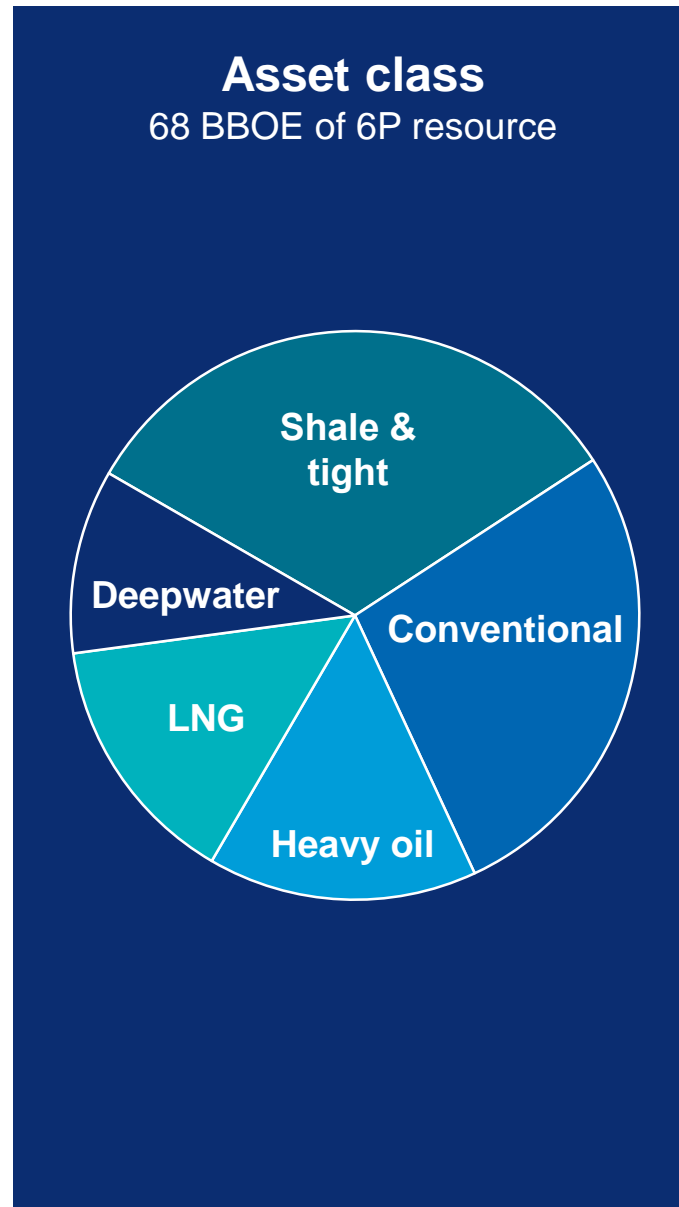


human energy

Upstream overview

Jay Johnson
Executive Vice President

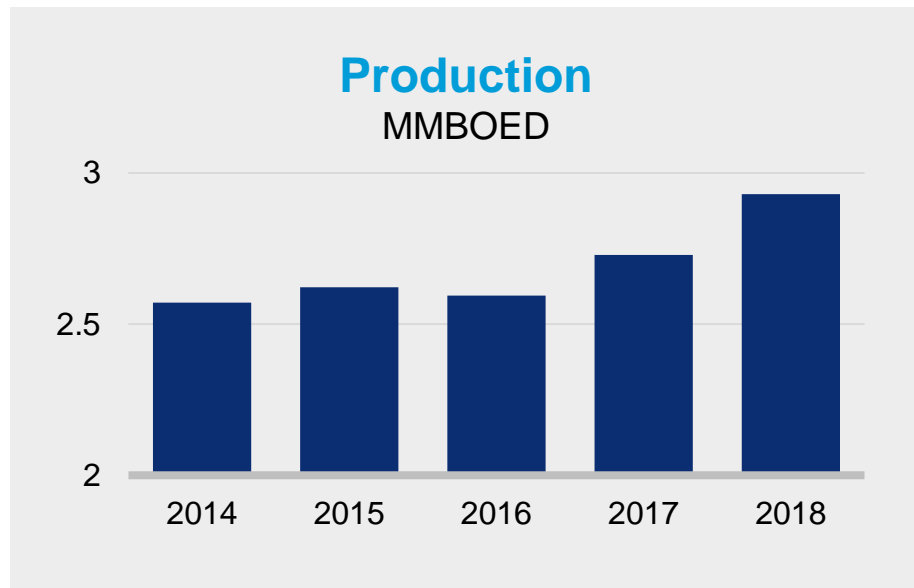
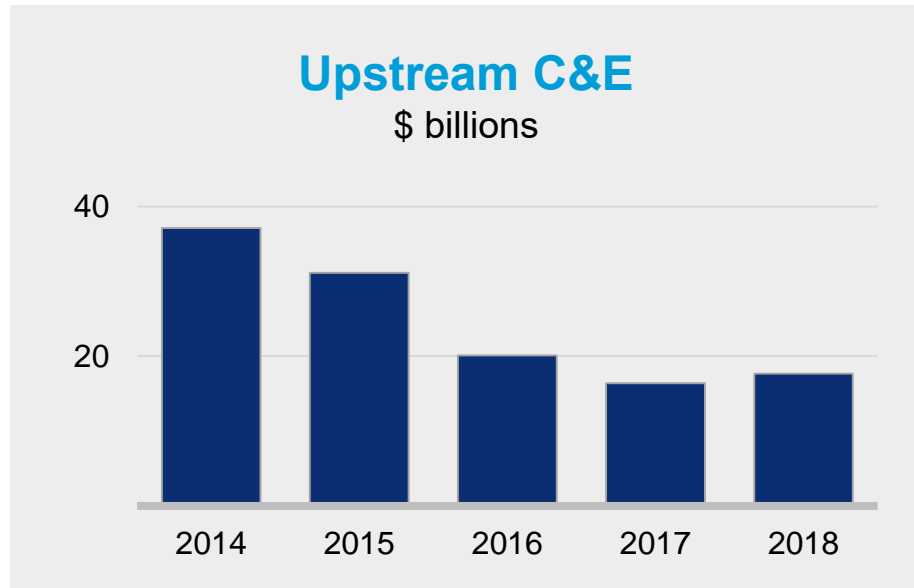
Diverse and advantaged portfolio



See Appendix: slide notes for definitions, source information, calculations, and other.



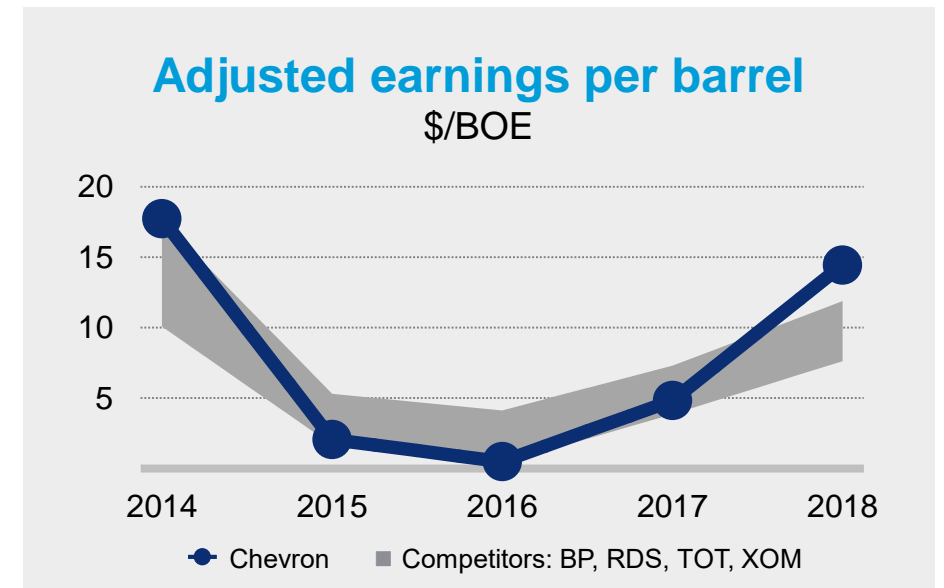
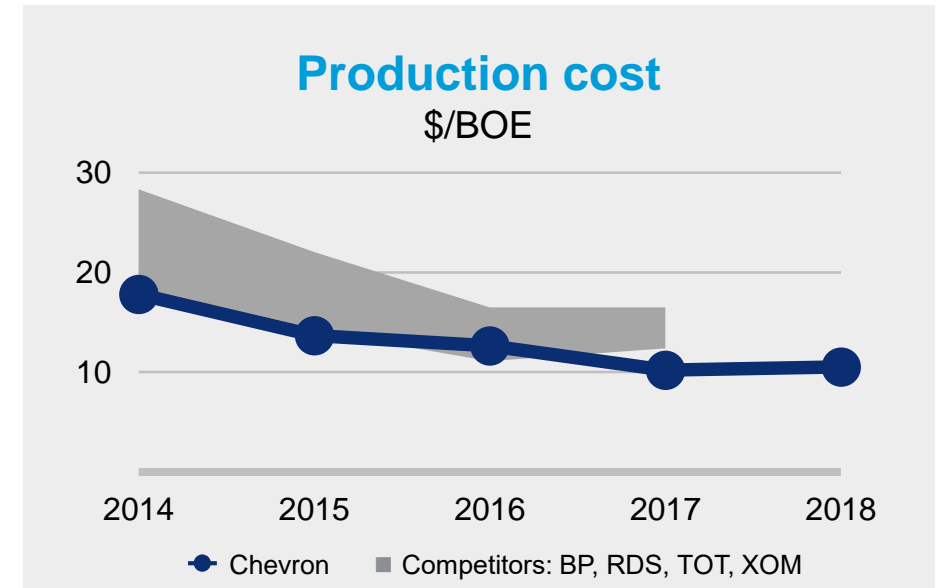
Industry leading performance



Capital discipline

Growing production

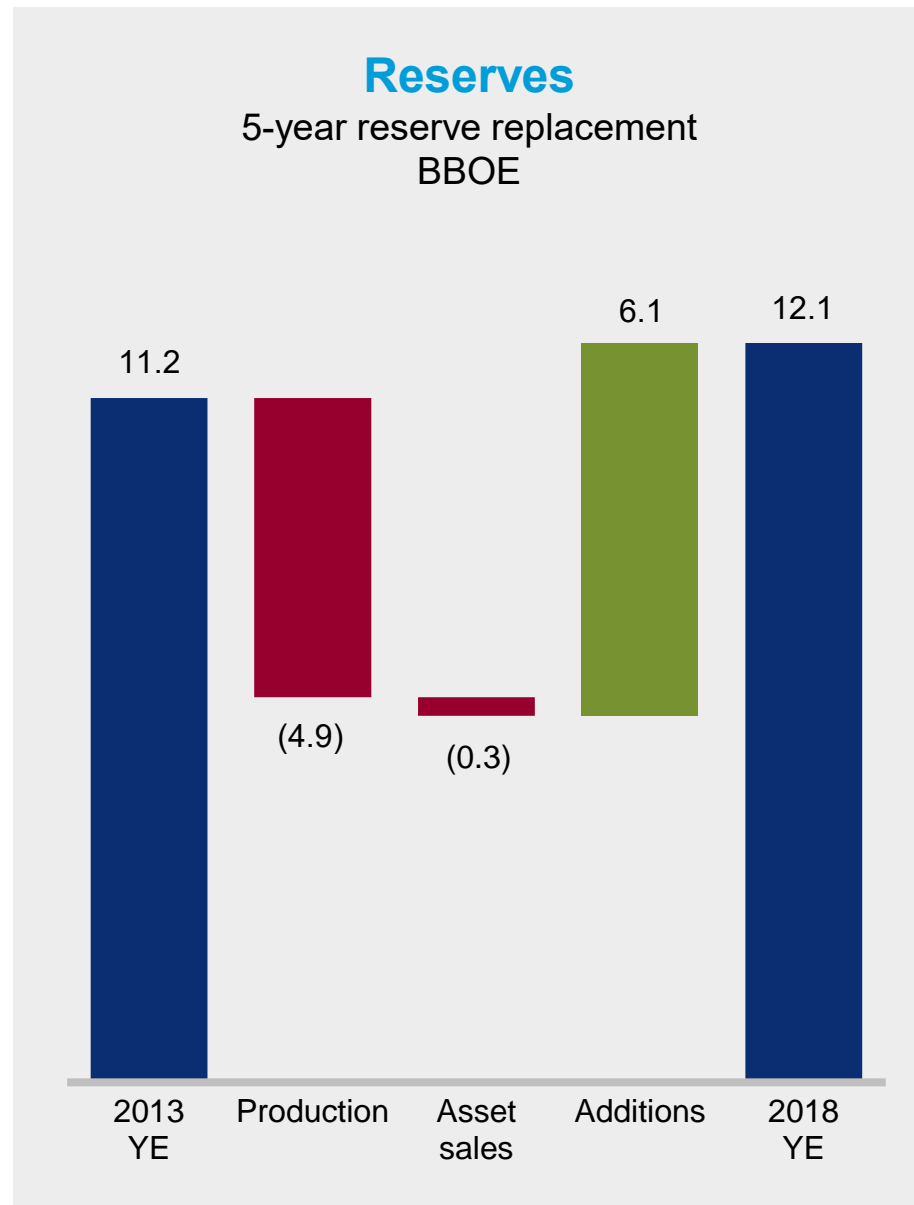
Industry leading results



See Appendix: reconciliation of non-GAAP measures and slide notes for definitions, source information, calculations, and other.



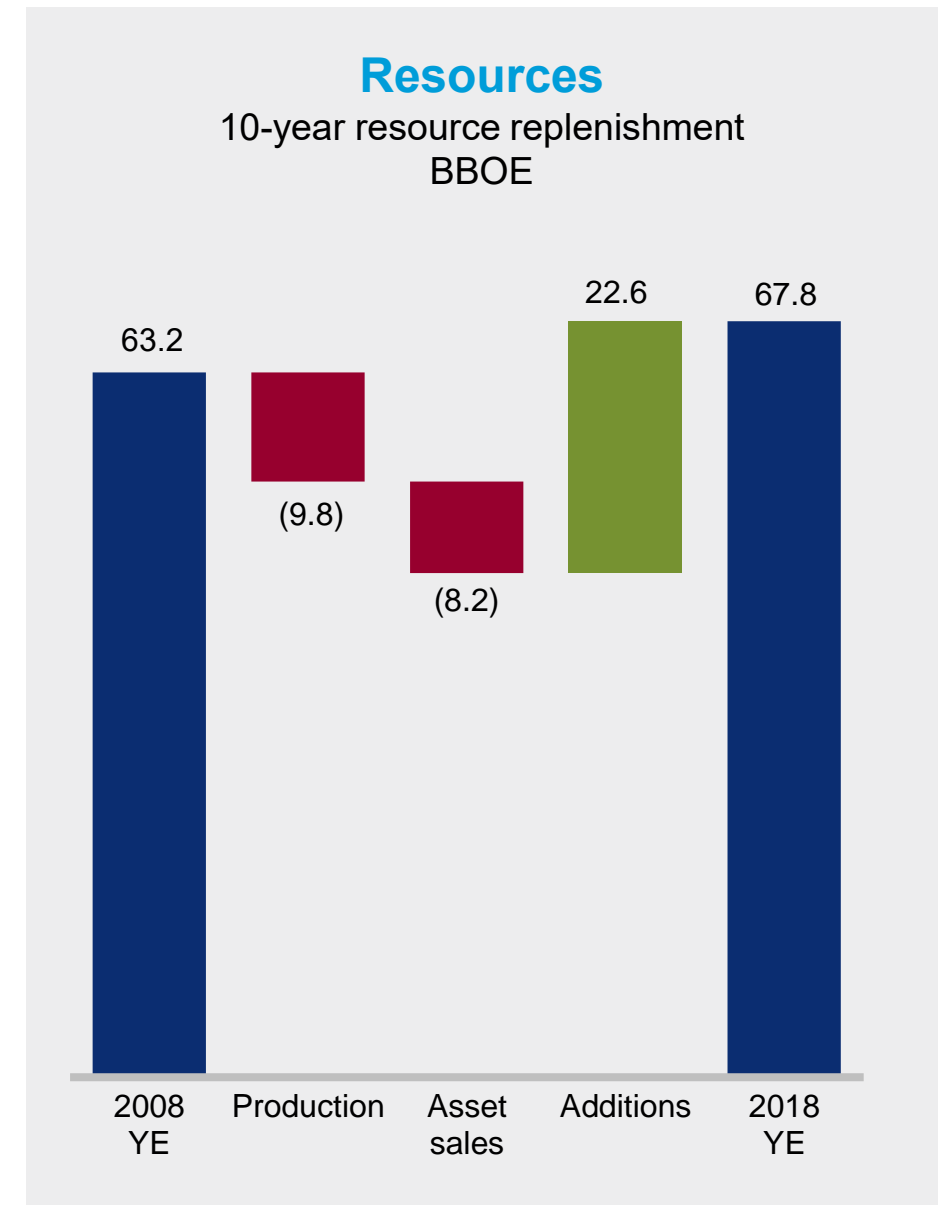
Growing reserves and resources



136% RRR
in 2018

117% RRR
five-year

147% resource replenishment
ten-year



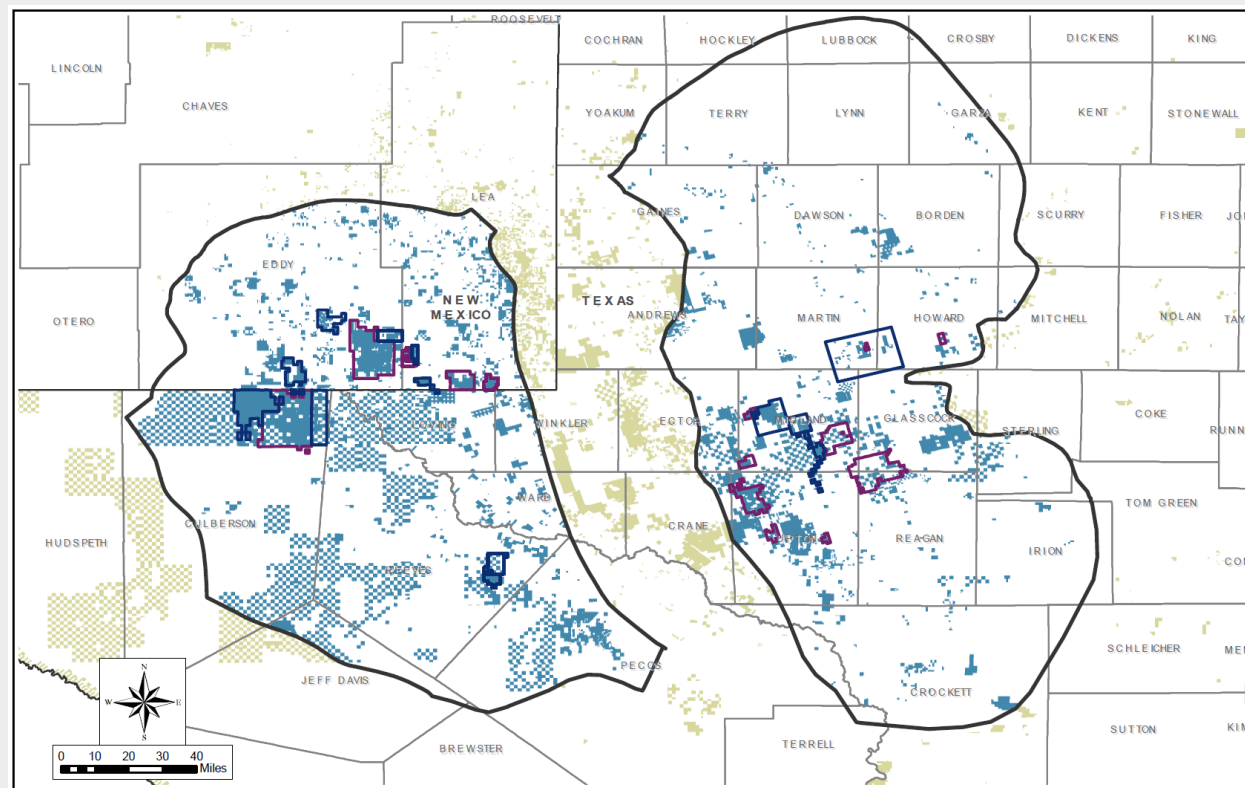
See Appendix: slide notes for definitions, source information, calculations, and other.






Permian...bigger resource, better value

Quality position

2.2 million total net acres / 1.7 million unconventional net acres
>80% no or low royalty



-  Chevron acreage
-  Chevron operated development
-  Chevron non-operated development

Portfolio value increased >2X
since 2017

Resource increased ~5 BBOE
in 2018

1,600 additional long laterals
from 2017-2018 acreage transactions

Continuing to core-up
development areas

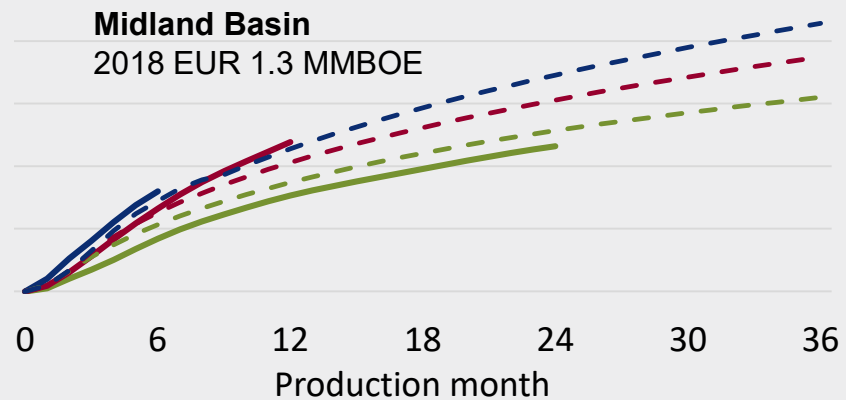
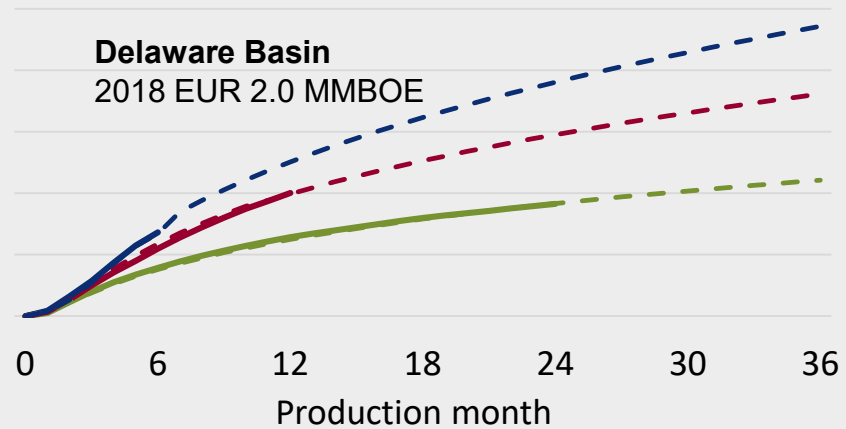
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Driving value in the Permian

Production versus type curves

Average well cumulative production



--- 2016 type curve — 2016 actual
 --- 2017 type curve — 2017 actual
 --- 2018 type curve — 2018 actual

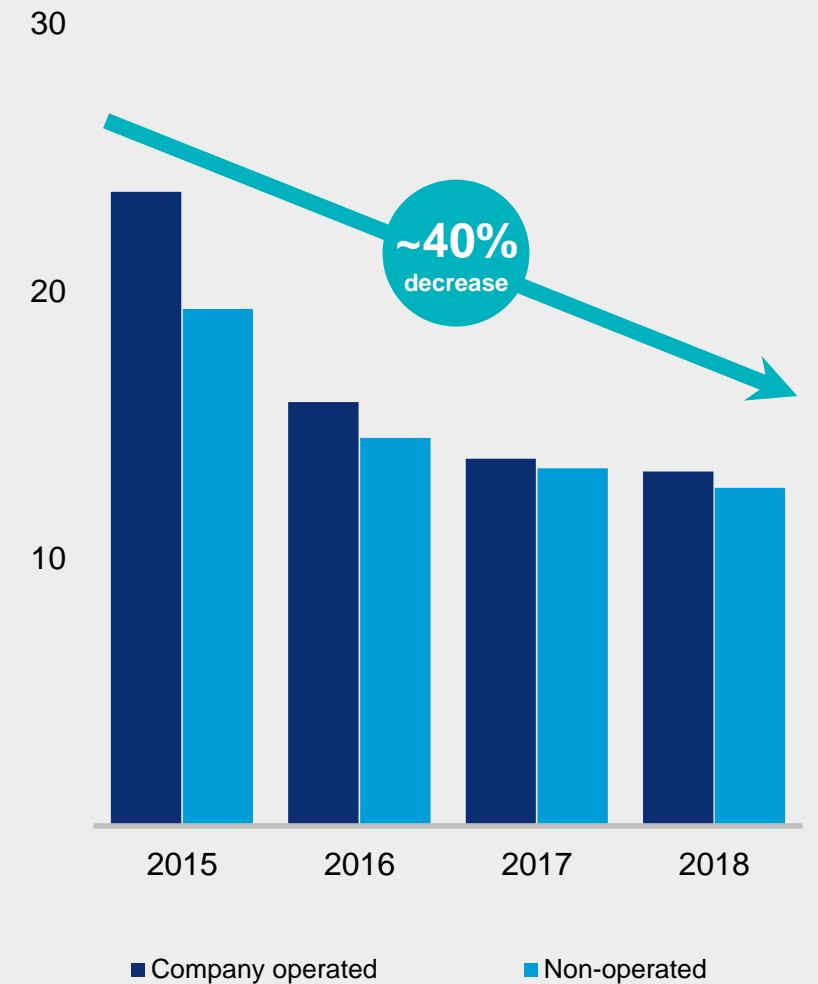
Well performance
increasing & predictable

Unit costs
decreasing

Continuing to
innovate and adopt
best practices

Development & production costs

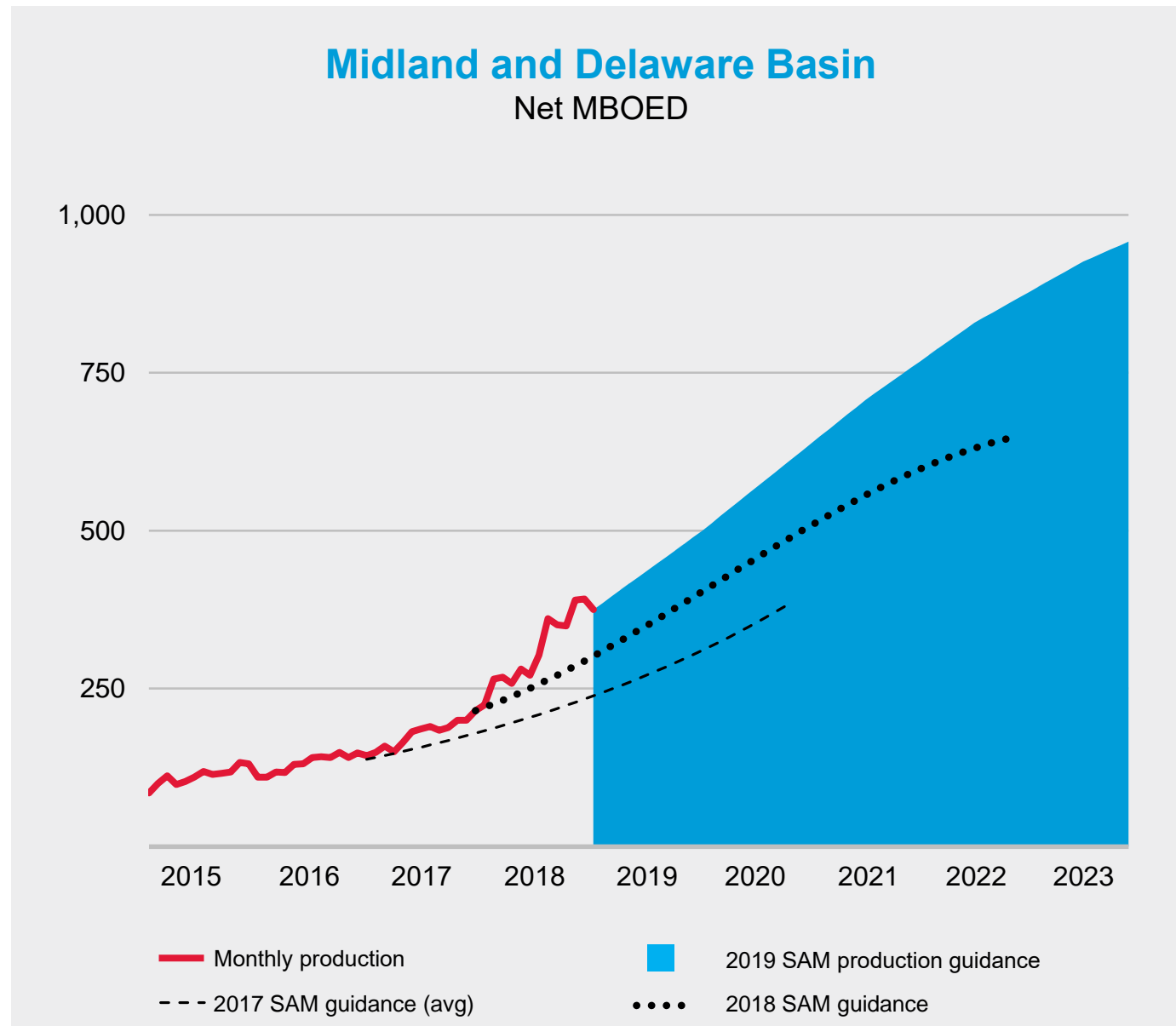
\$/BOE



See Appendix: slide notes for definitions, source information, calculations, and other.



Outperformance resets expectations



Focused on returns

900 MBOED in 2023

20 operated rigs
7-10 net NOJV rigs

**Cash flow positive
by 2020**

See Appendix: slide notes for definitions, source information, calculations, and other.

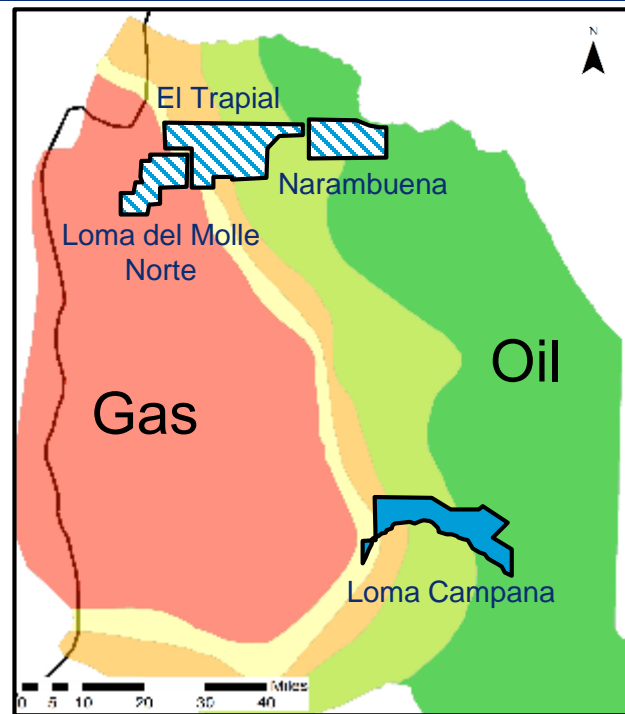




Other emerging shale & tight assets

Argentina

Loma Campana

~48,000 net acres
 0.4 BBOE resource
 EUR ~1.0 MMBOE/well
 500 potential well locations

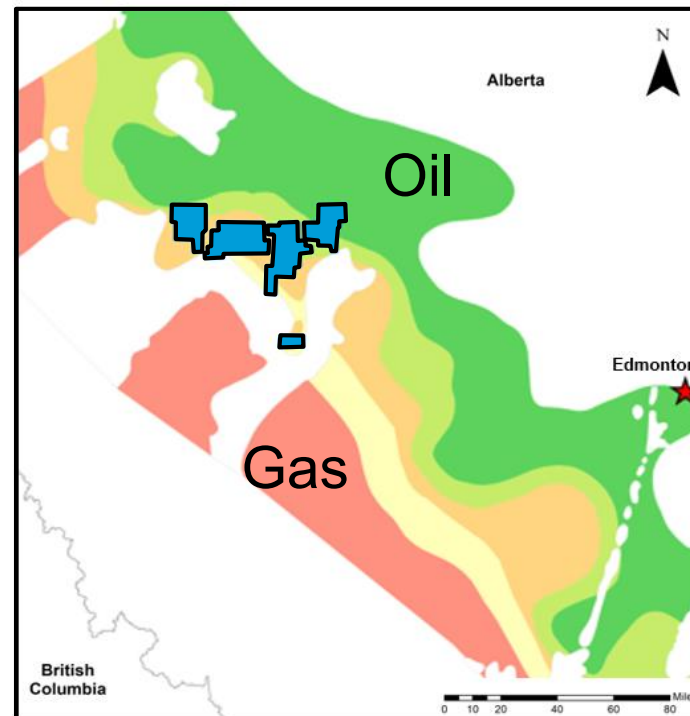


  Chevron acreage

Canada

Duvernay

~215,000 net acres
 1.4 BBOE resource
 EUR ~1.7 MMBOE/well
 1,500 potential well locations

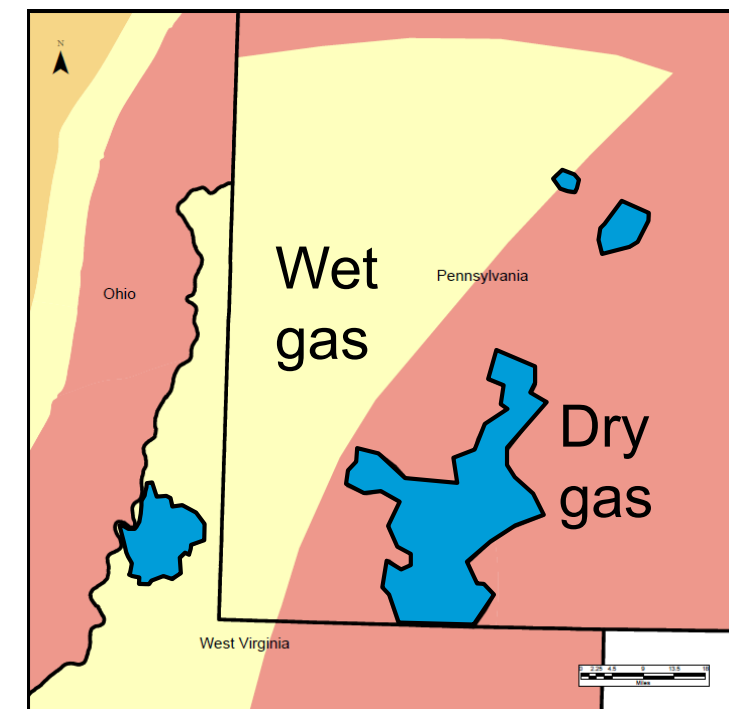


  Chevron acreage

Appalachia

Marcellus / Utica

~890,000 net acres
 2.4 BBOE resource
 EUR ~2.6 MMBOE/well
 1,300 potential well locations



  Chevron acreage

See Appendix: slide notes for definitions, source information, calculations, and other.

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TCO



FGP/WPMP progressing towards first oil



**On track for
first oil in 2022**

2019 focus:

Module fabrication

Construction productivity

Energize core substation

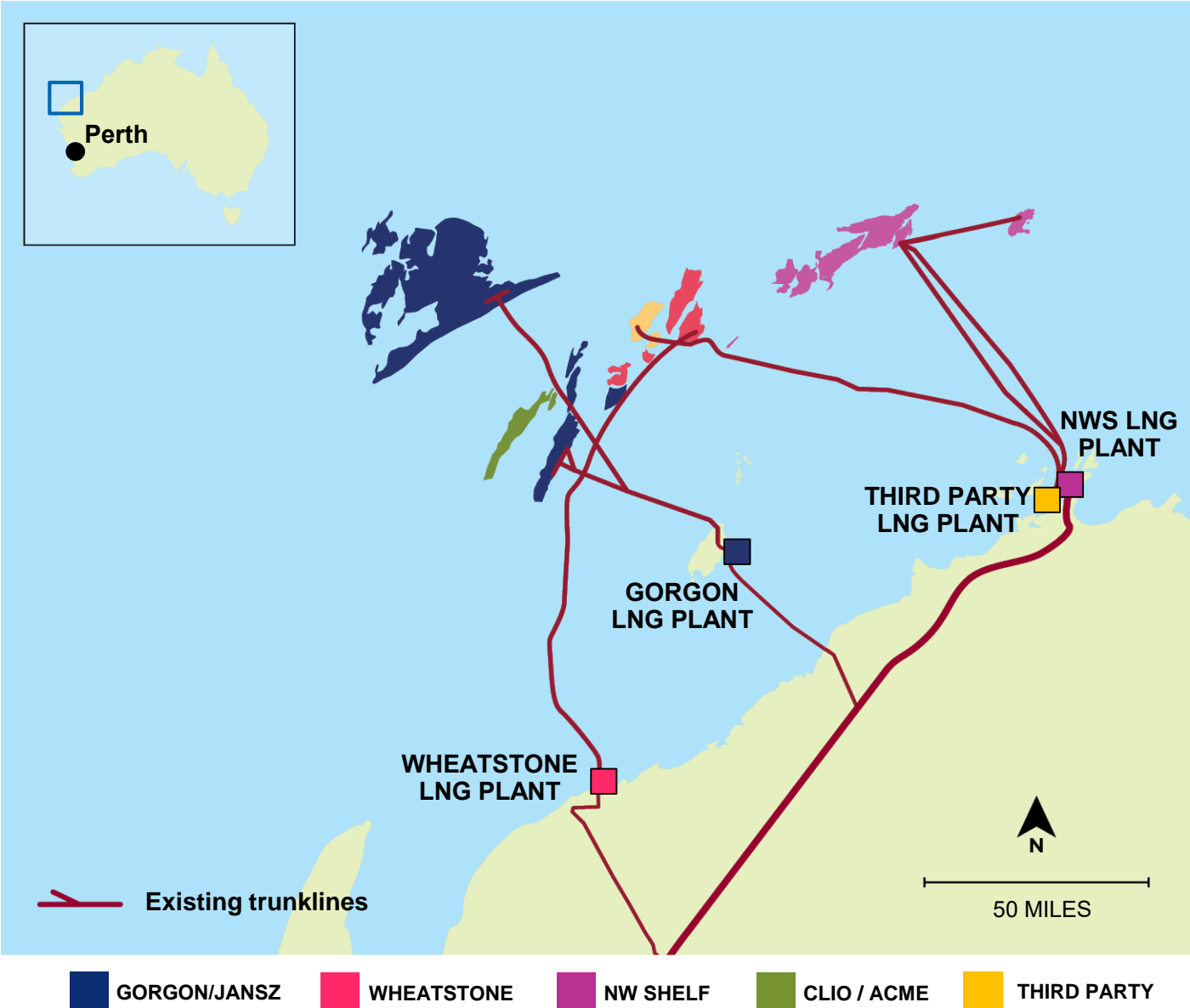
Commission gathering system

Capital efficient resource monetization in Australia

Gorgon & Wheatstone
production
in 4Q 2018

~400 MBOED

~50 TCF
of resource



Maintain
reliability

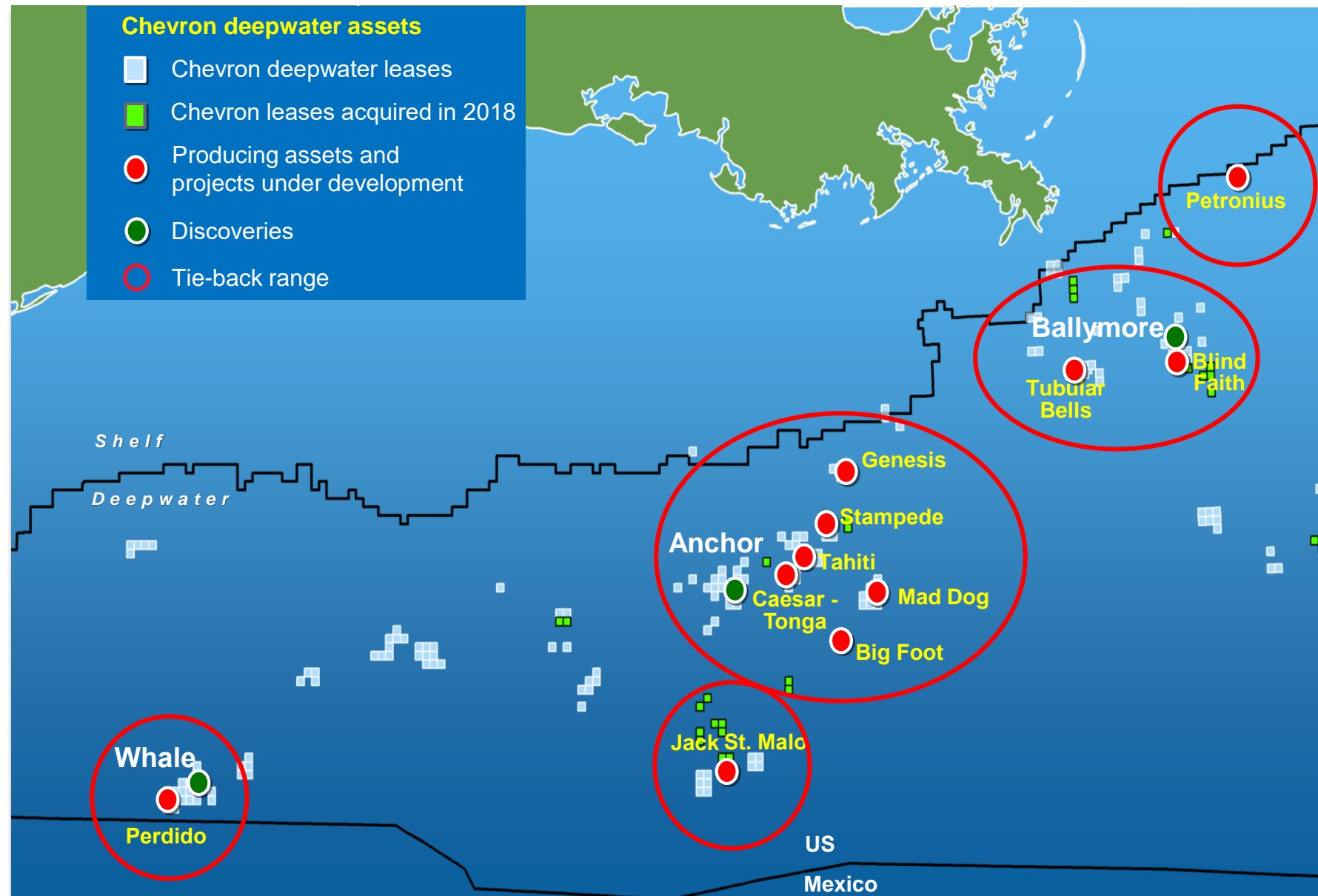
Increase
capacity

Leverage
basin infrastructure

See Appendix: slide notes for definitions, source information, calculations, and other.



Advancing our deepwater Gulf of Mexico portfolio



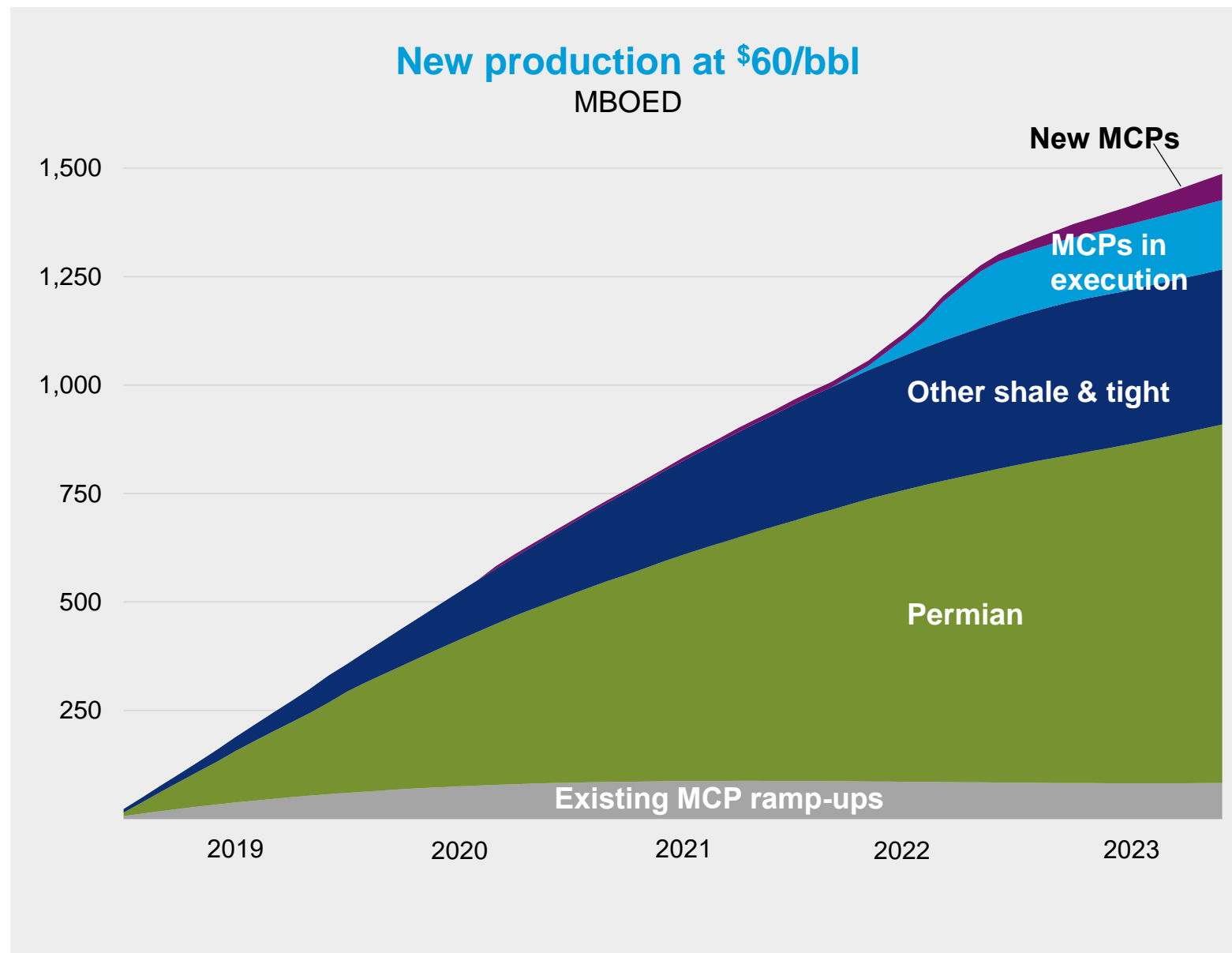
See Appendix: slide notes for definitions, source information, calculations, and other.

2018
Production ~220 MBOED
Opex <\$10/bbl

Targeting:
Development cost
of \$16-20/bbl

Tie-back options
for ~60% of exploration blocks

Positioned for organic growth with lower risk



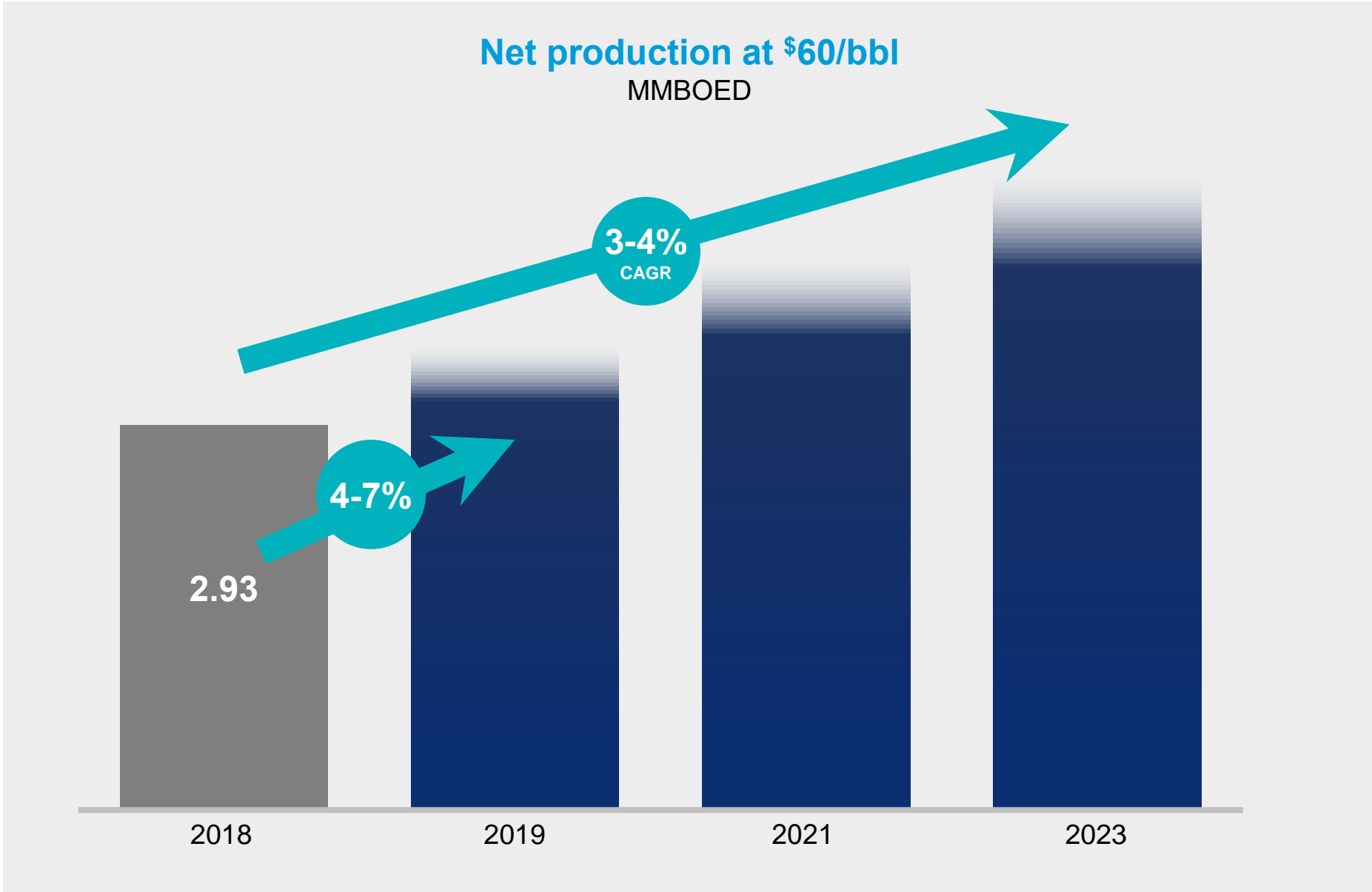
~1.5 MMBOED
by year-end 2023

Primarily lower risk and short-cycle

See Appendix: slide notes for definitions, source information, calculations, and other.



Five-year production guidance



Ratable growth

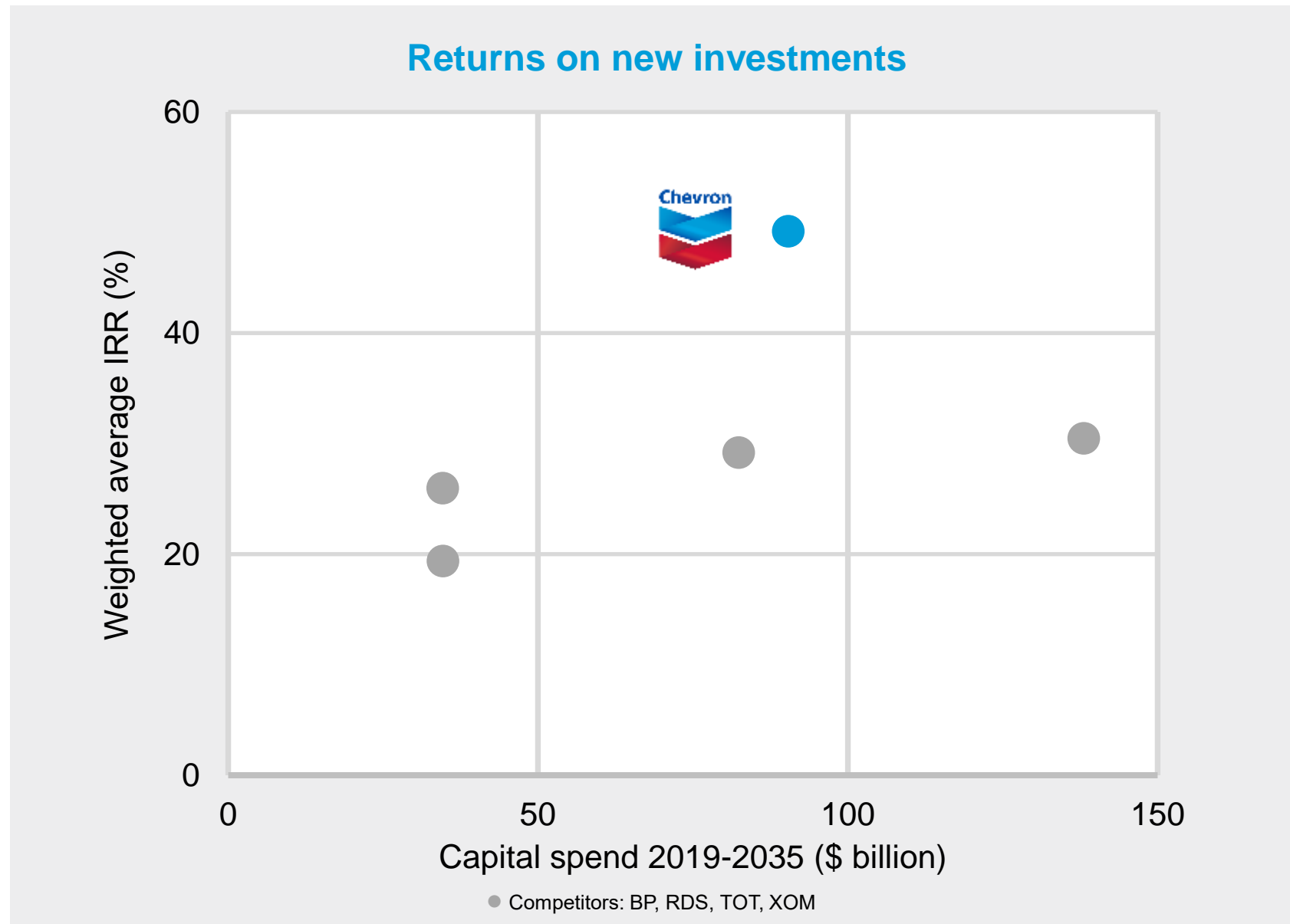
Lower subsurface risk

Minimal MCP execution risk

3-4% CAGR reflects 2018-2023. Includes the effect of expected asset sales in the public domain. Range factors: PZ and Venezuela, asset sales, other.
 4-7% reflects production growth 2018-2019. Excludes the effect of 2019 asset sales.
 See Appendix: slide notes for definitions, source information, calculations, and other.



High return new investments



Superior portfolio

Industry leading returns

Source: Wood Mackenzie
See Appendix: slide notes for definitions, source information, calculations, and other.



Delivering results

Sustainable portfolio

Ratable C&E

**Lower-risk, short-cycle
production growth**

Industry leading returns

Growing cash flow



Upstream appendix

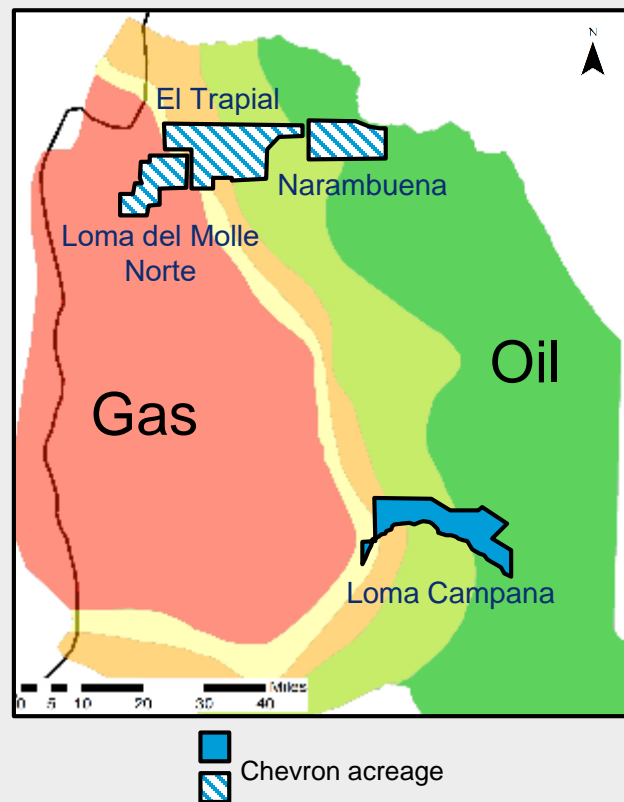
Vaca Muerta / Kaybob Duvernay / Appalachia



Vaca Muerta

Quality position

~210,000 net acres



0.4 BBOE resource
in Loma Campana

Three prospective development areas
with ~2 BBOE potential resource

60-70 horizontal wells
planned in 2019

Loma Campana

48,000 net acres

EUR 1.0 MMBOE/well

Average well length 7,500 ft

Development costs \$11/BOE

500 potential well locations

New development areas

162,000 net acres

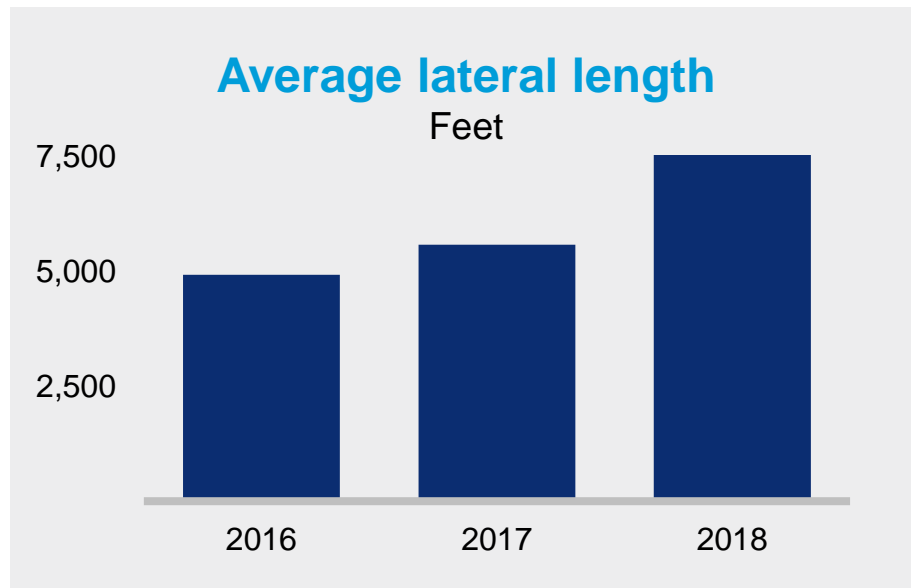
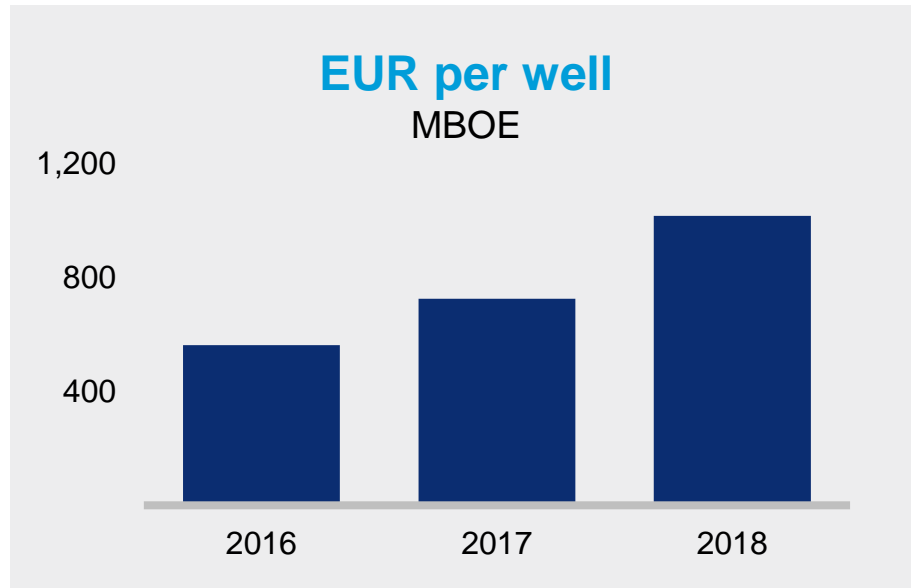
Pilot programs in 2019

Potential for ~2,000 wells

See Appendix: slide notes for definitions, source information, calculations, and other.



Loma Campana performance – Vaca Muerta



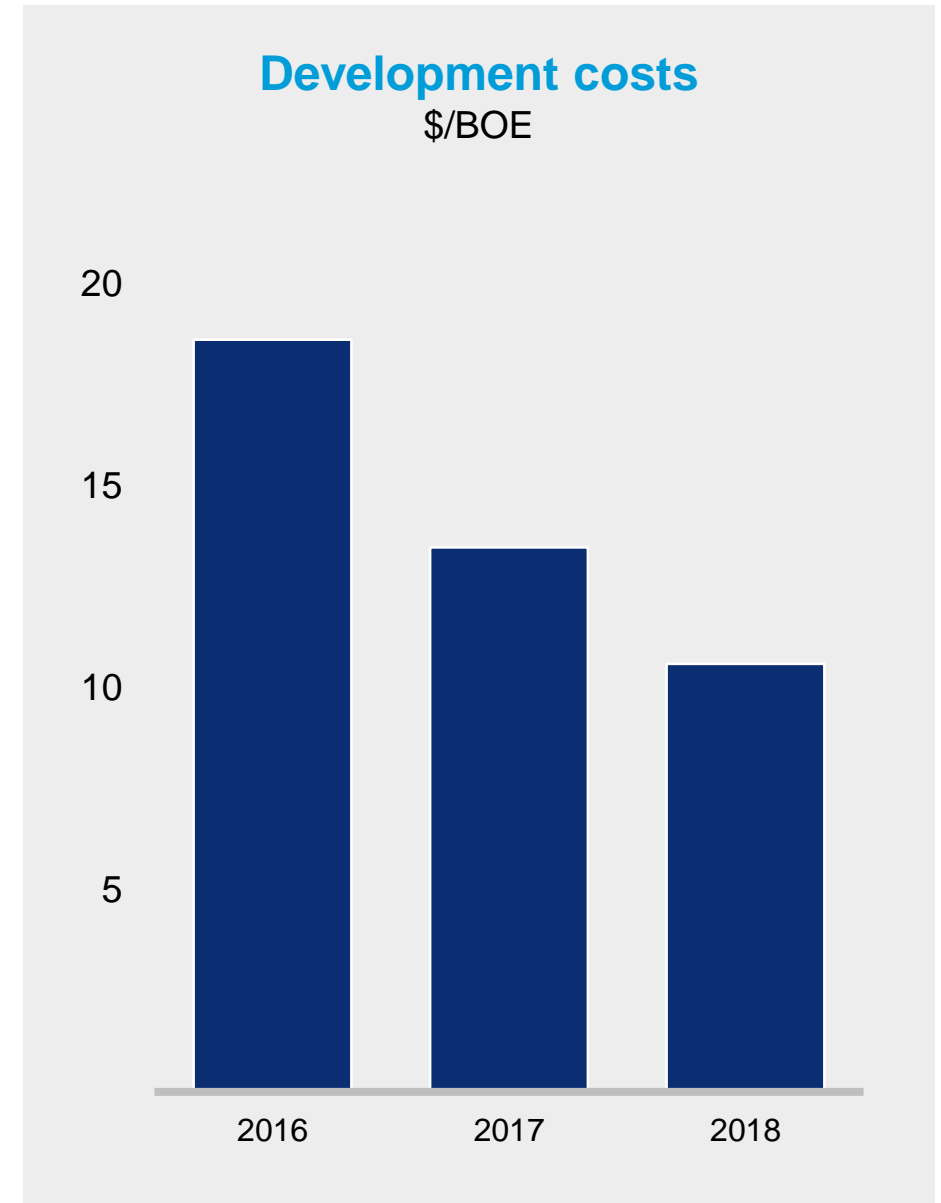
Three shale and tight benches

Well EUR increased 80%

Well lateral length increased 50%

Development cost decreased 45%

2019 focus on high density completions and improving frac efficiency



See Appendix: slide notes for definitions, source information, calculations, and other.



El Trapial – Vaca Muerta

94,000 net acres

**Legacy acreage
from conventional field**

**Three shale and tight benches
proven through exploration**

Eight-well pilot

1,200 potential well locations



See Appendix: slide notes for definitions, source information, calculations, and other.

Narambuena – Vaca Muerta

25,000 net acres

**Three shale and tight benches
proven through exploration**

Four-well pilot

600 potential well locations

Adjacent to El Trapial



See Appendix: slide notes for definitions, source information, calculations, and other.

Loma del Molle Norte – Vaca Muerta

43,000 net acres

Acreage acquired in 2017

Exploration planned

150 potential well locations

Adjacent to El Trapial

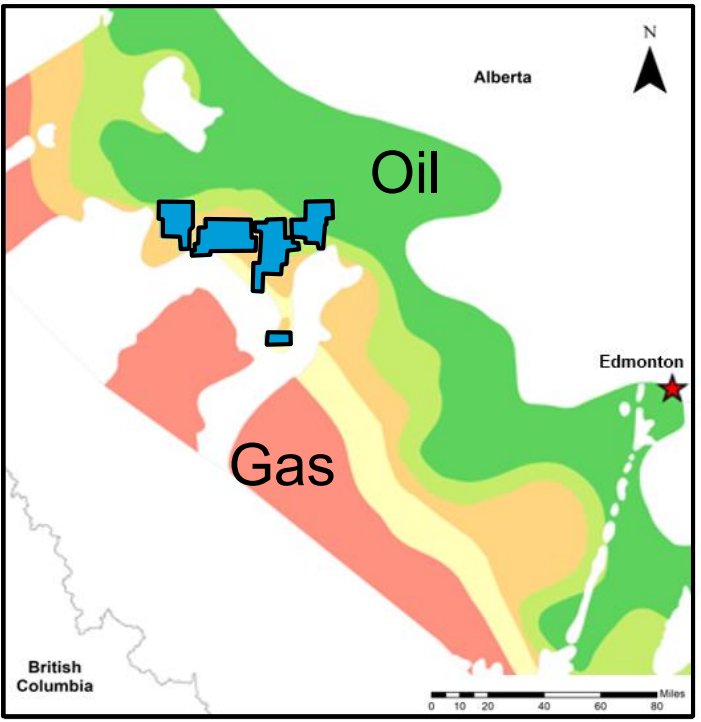


See Appendix: slide notes for definitions, source information, calculations, and other.

Kaybob Duvernay

Quality position

~215,000 net acres



1.4 BBOE resource

Liquids value driven

40-45 wells
planned in 2019

Well performance

EUR 1.7 MMBOE/well

Average well length 8,300 ft

Development costs \$9/BOE

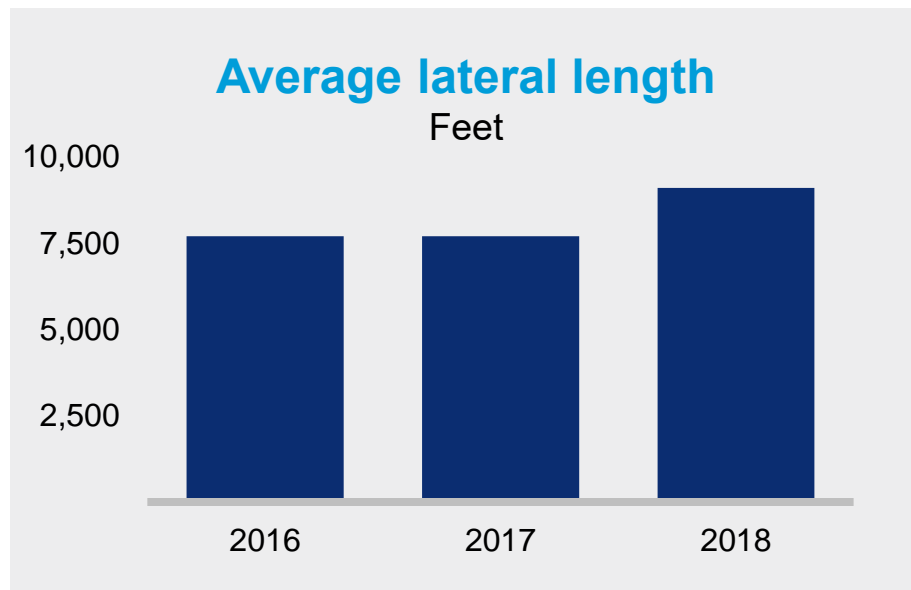
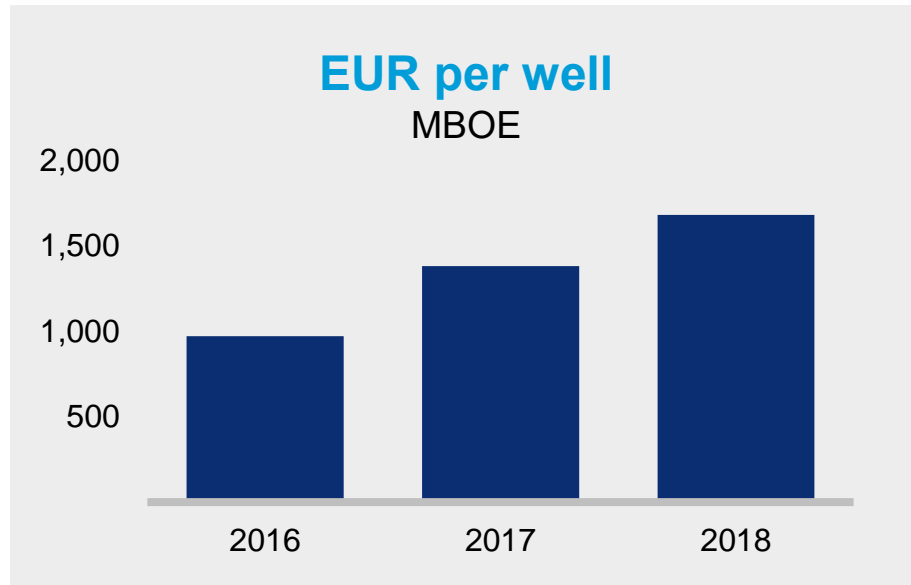
~50% liquids

1,500 potential well locations

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Kaybob Duvernay performance

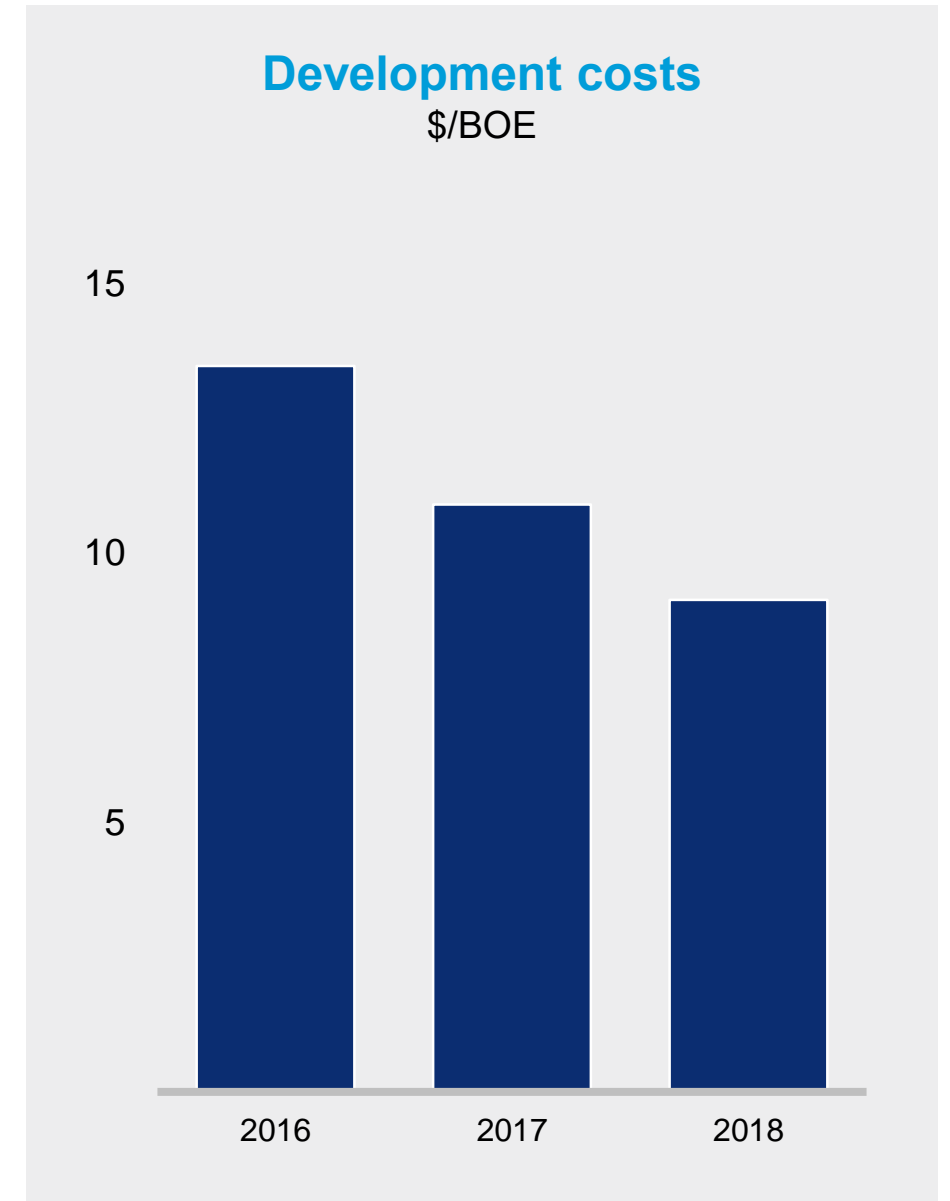


215,000 net acres

Well EUR increased 70%

Well lateral length increased 20%

Development cost decreased 30%



See Appendix: slide notes for definitions, source information, calculations, and other.



Kaybob Duvernay development

**Began development drilling
in 2018**

Scalable based on market conditions

Flexible commercial infrastructure model

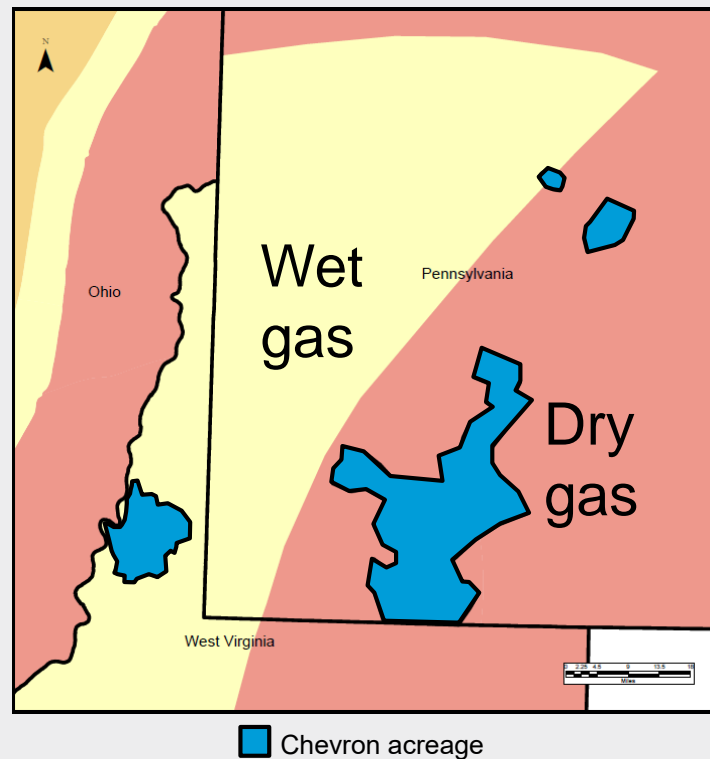
**Local condensate market
due to oil sands diluent demand**



Appalachia

Quality position

~890,000 net acres



2.4 BBOE resource

Two shale and tight benches

Exploration upside in deep Utica

30-40 wells planned in 2019

Well performance

EUR ~2.6 MMBOE/well

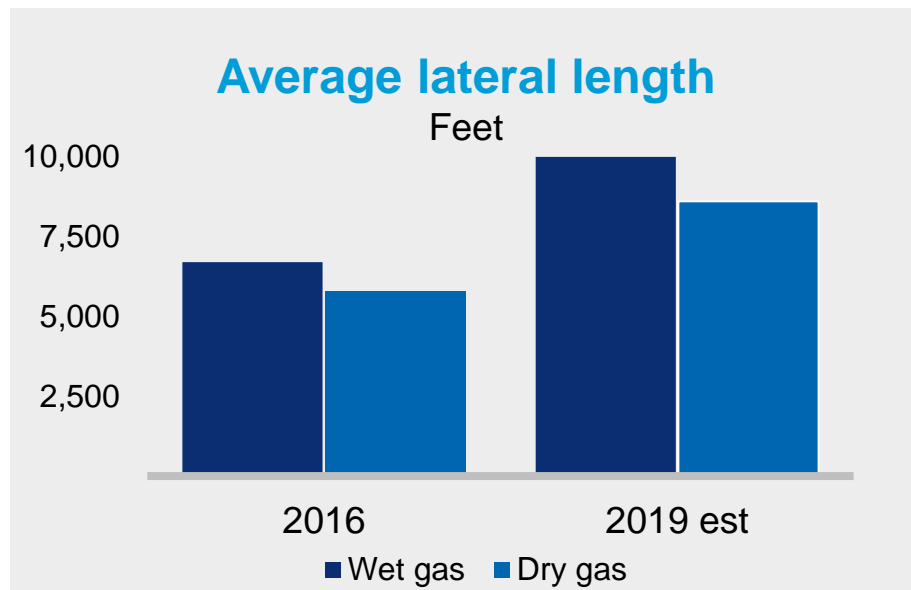
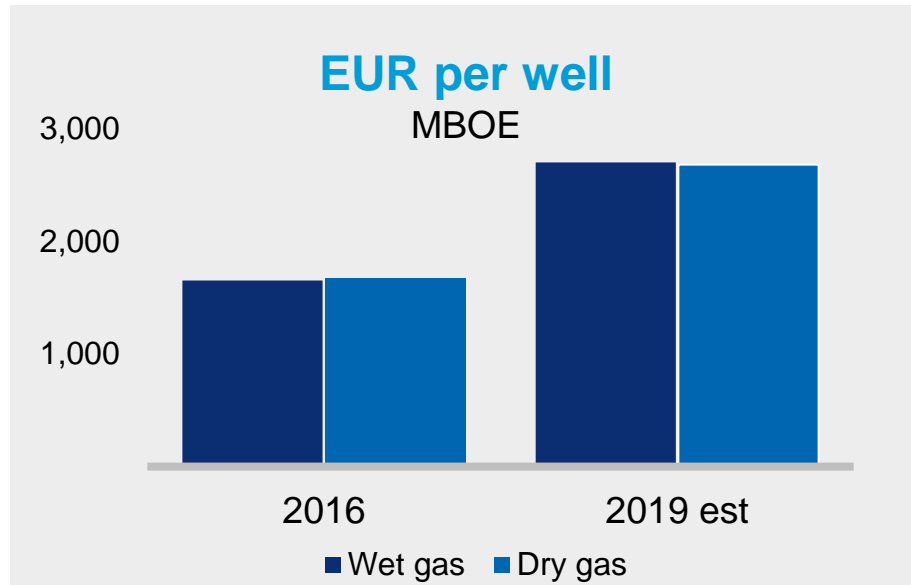
Average well length
8,600-10,000 ft

Development costs
\$4.20- \$5.70/BOE

~1,300 potential well locations

See Appendix: slide notes for definitions, source information, calculations, and other.

Appalachia performance

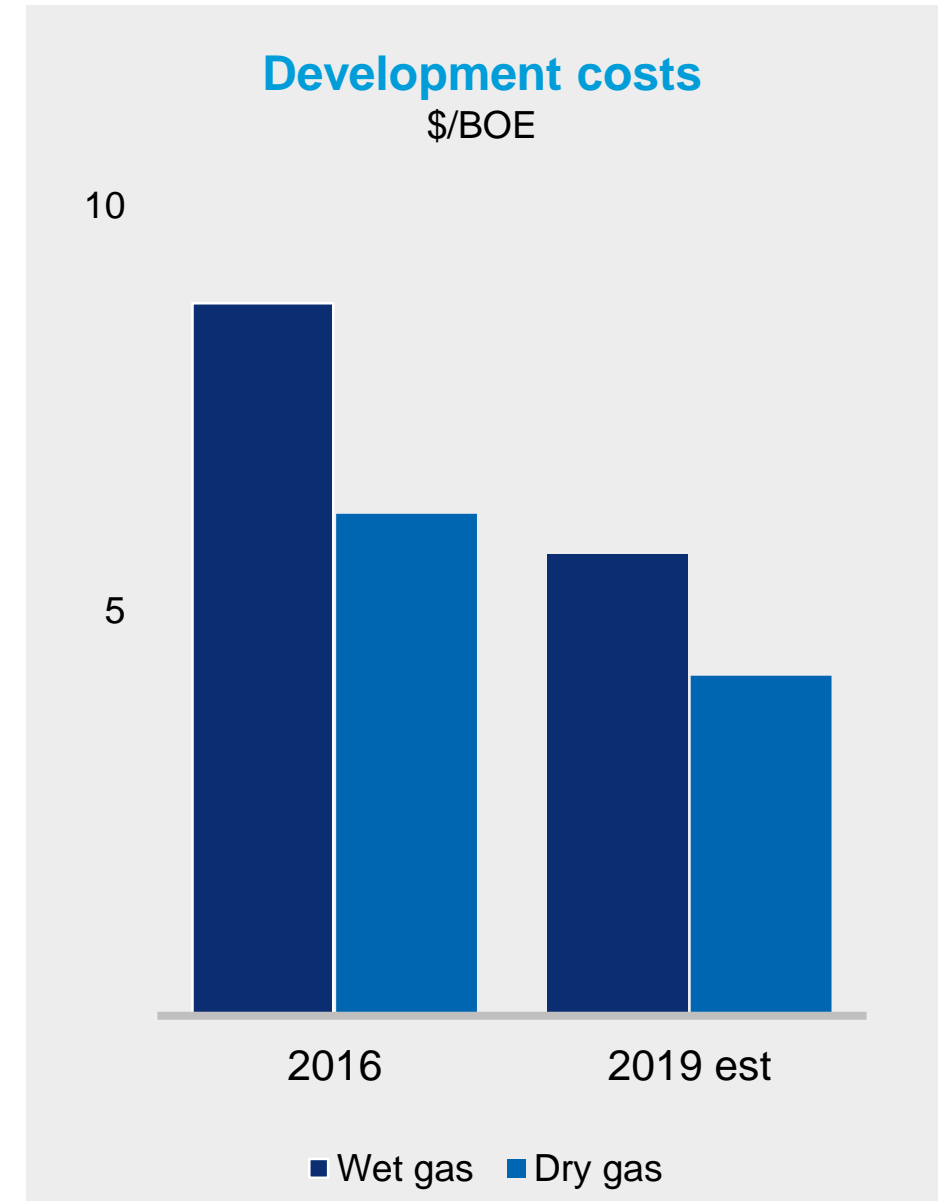


Asset optimization with factory restart

Well EUR increase ~60%

Lateral length increase ~50%

Development cost decrease ~30%



See Appendix: slide notes for definitions, source information, calculations, and other.



Appalachia development

Pipeline infrastructure build out improving price differentials vs. Henry Hub

Re-started development drilling in 2018

New basis of design with:

Longer laterals

Improved frac efficiency

Higher density completion

Upside potential of deep Utica
currently drilling exploration wells

