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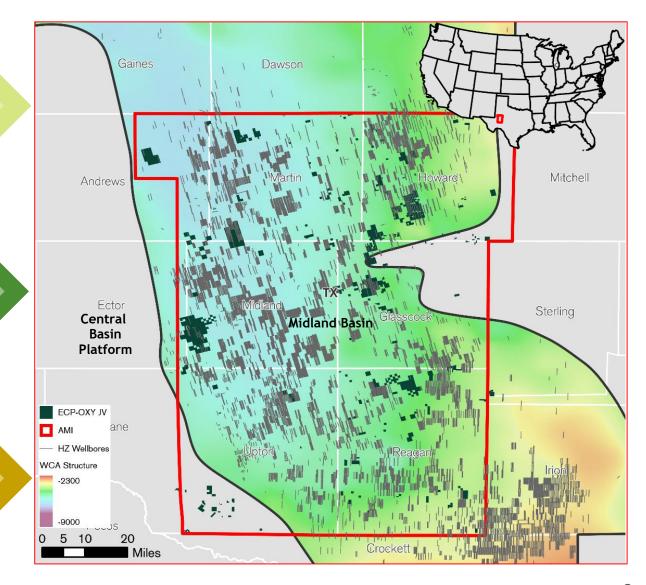
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Overview of Transaction

Joint Venture ("JV") agreement with Oxy to develop oil & gas properties in the prolific Midland Basin

- Ecopetrol: 49% interest for US\$1.5bn in an all cash transaction
- Oxy: 51% interest and serves as operator
- ~97,000 net acres¹ across Andrews, Martin, Howard, Ector, Midland, Glasscock, Upton and Reagan counties
- ~4,700 gross locations with rights to multiple benches, including Middle/Lower Spraberry and Wolfcamp A, B and C
- PUD² reserves to be booked at closing ~160 mmboe; additional ~115³ mmboe between 2020-2023
 - 50% of total consideration paid as an upfront cash payment at closing
- Remainder 50% to be paid as carried capital cost within the joint development period (within the next 5 years)
- Knowledge and technology transfer agreements in place

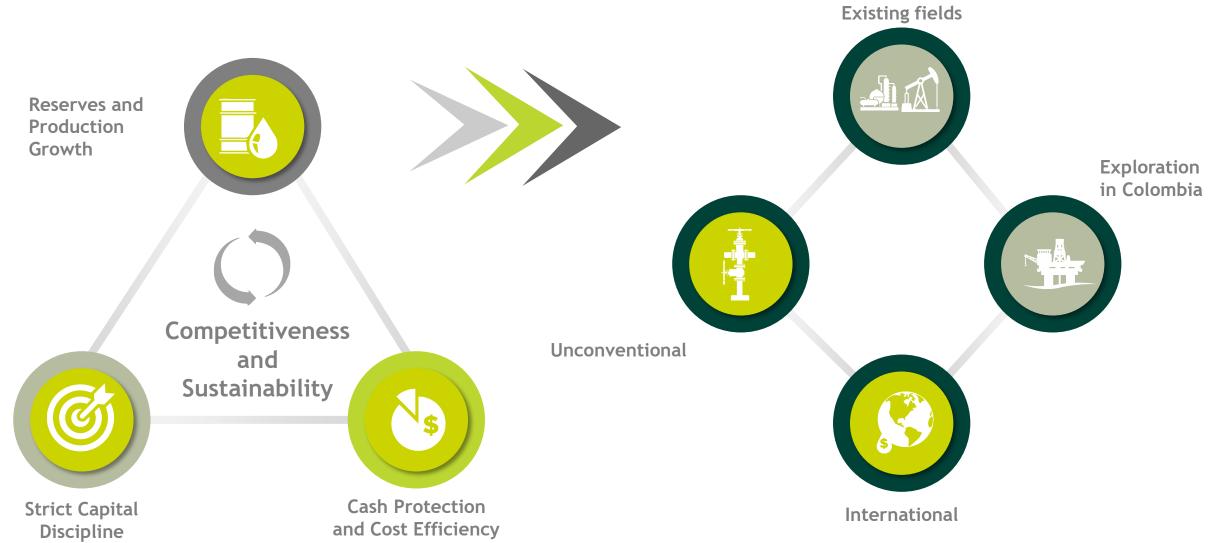


^{1.} \sim 97,000 net acres to be developed out of \sim 112,000 net acres being acquired

^{2.} PUD: Proved Undeveloped.

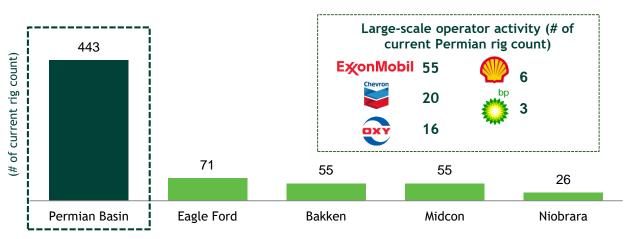
^{3.} According to current development plan

Transaction fully aligned with Ecopetrol's strategy

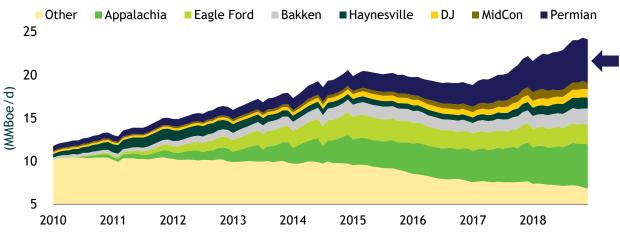


Permian: Fastest Growing U.S. Basin With Top-Tier Returns

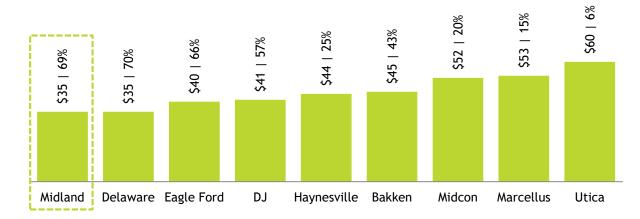
The Permian Basin has the Highest Amount of Drilling Activity in the U.S.



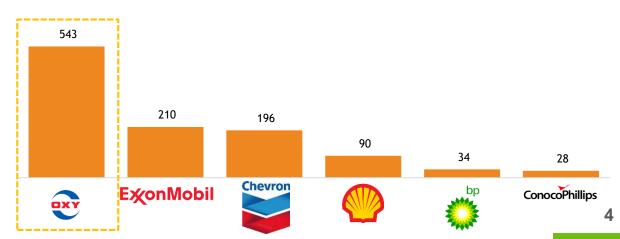
The Permian is the Leading Basin in Production Growth in the U.S.



Permian Break Evens: Most Competitive Across All Other U.S. Basins (½ Cycle) (\$ / bbl and % IRR)

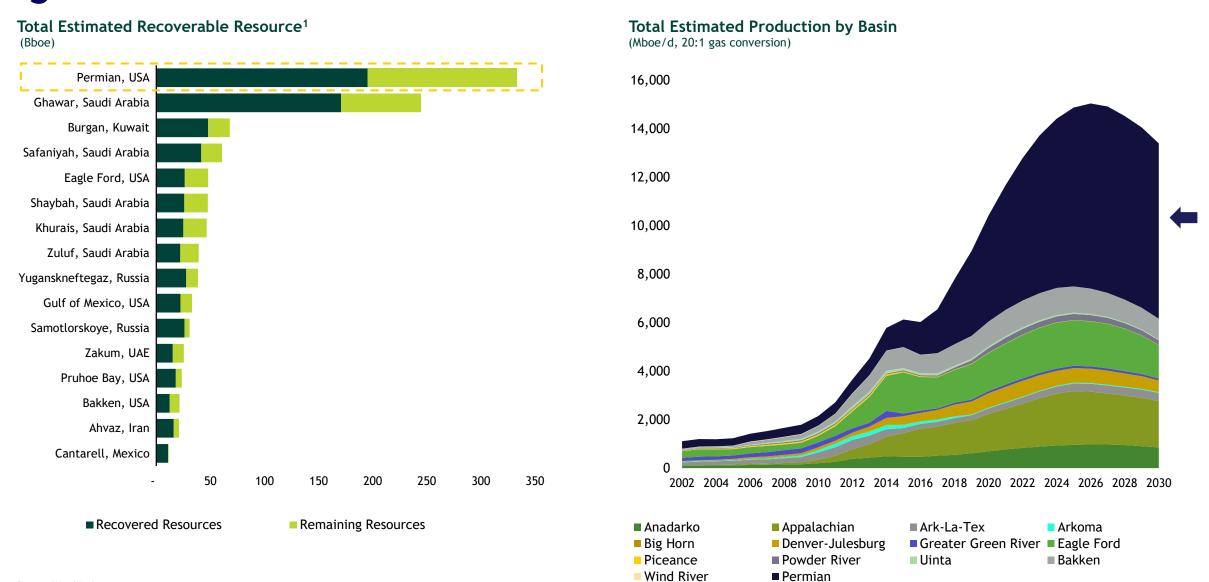


Ecopetrol Joins the Largest Global O&G Operators with presence in the Permian (Gross Operated Permian Production - Mboe/d)



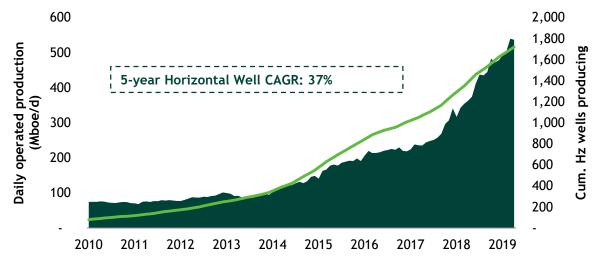
Source: RSEG, Baker Hughes, RigData as of 7/3/19.

The Permian Basin Has Best in Class Resource Potential to Support Significant Production Growth

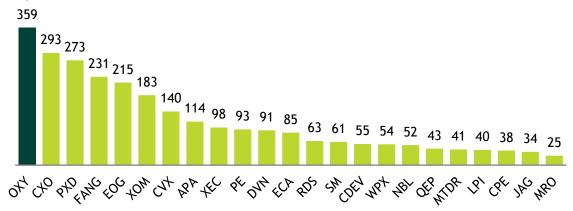


JV: Strategic Partnership with a Top-Tier and Experienced in-basin Operator

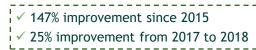


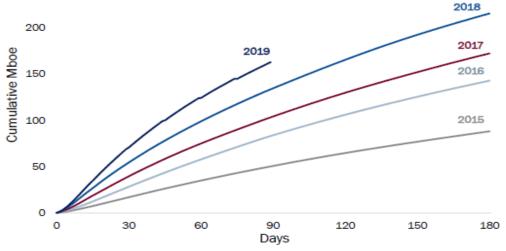


Oxy's Gross Operated Permian Oil Production Vs Top 20 Operators in Basin (Mbo/d)

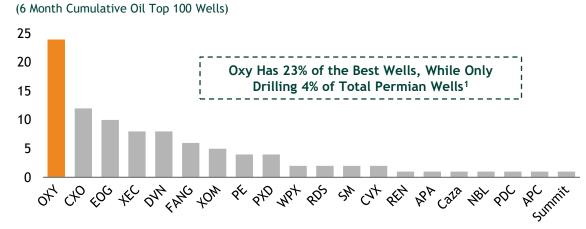


Oxy continues to improve its well performance



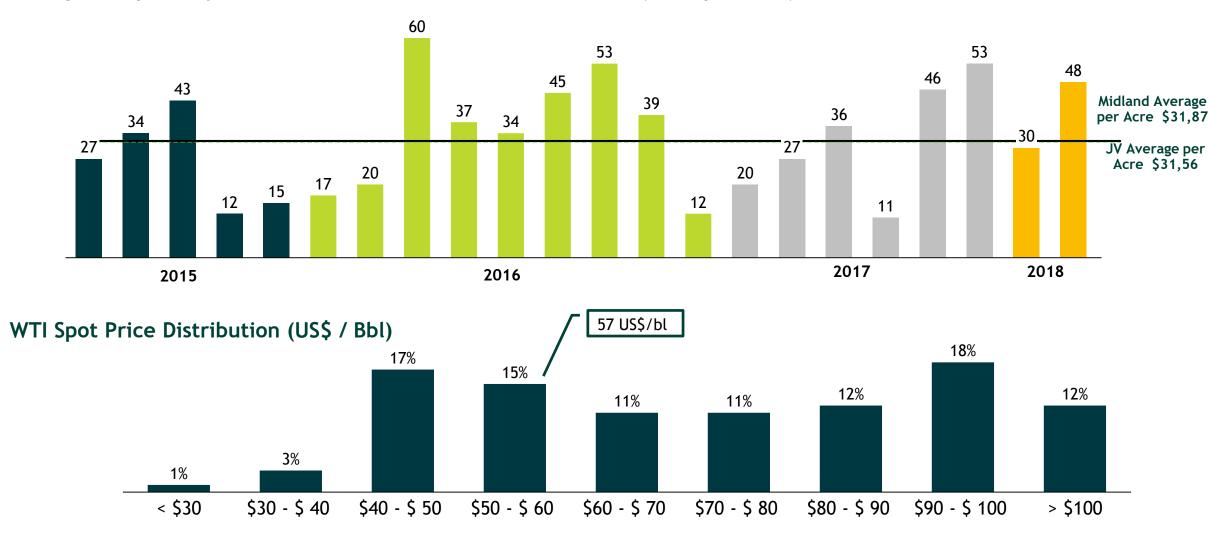


Oxy has the highest number of top 100 Permian wells



Midland Transaction Activity and Valuations Through Time

Acreage Mutiples Adjusted for Production - Deals > U\$\$200mm (\$000 per Acre)1



¹Assumes enterprise values and transaction values are adjusted downward by \$30,000 per Boepd of production. Metrics adjusted to reflect current NYMEX 12-month strip pricing of \$55.81 per Bbl and \$2.36 per MMBtu as of July 26, 2019. Source: PLS, Petrie databases and Ecopetrol calculations. Market data per FactSet as of July 26, 2019.

Ecopetrol to Book ~160 mmboe of Proven Reserves in 2019 and Reach a Peak Production of ~95 kboed in 2027



Transaction expected to add ~160 mmboe of proved undeveloped reserves upon closing¹



JV could add approximately 0.7 years to reserve life by the end of 2019



19 rigs expected in peak development (2027)

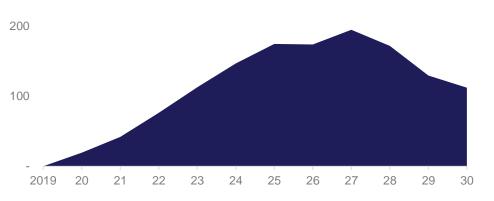


~4,700 gross remaining locations

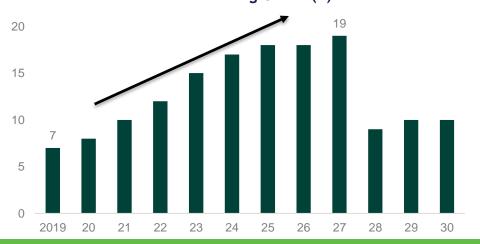


Access to Oxy's transportation and storage capacity





Estimated Rig Count (#)



Achieves geographic and hydrocarbon play resource diversification, ~10% increase in 1P reserves compared with 2018

Summary of Selected Deal Terms



Corporate Governance

- Symmetric Board representation
- Parties to consent on critical development and capex allocation decisions
- Agreed instances for technical and commercial decision making



Knowledge and Transfer Agreement

- Secondment Agreement
- Ecopetrol secondees fully integrated into various operational functions of the JV
- Access to intellectual property developed by JV



Services Agreement

- Oxy serves as operator of the JV
- Use of Oxy's infrastructure and commercial capabilities





Financial Advisor CREDIT SUISSE

Legal Counsel



Technical Advisor



Land Services



Transition



Transformational transaction for Ecopetrol













Significantly enhances reserves and production

Value accretive transaction

Knowledge and technology transfer

Improved portfolio structure

High quality acreage

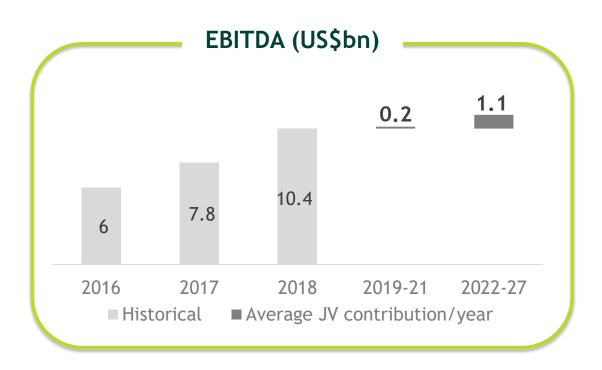
Partnership with OXY

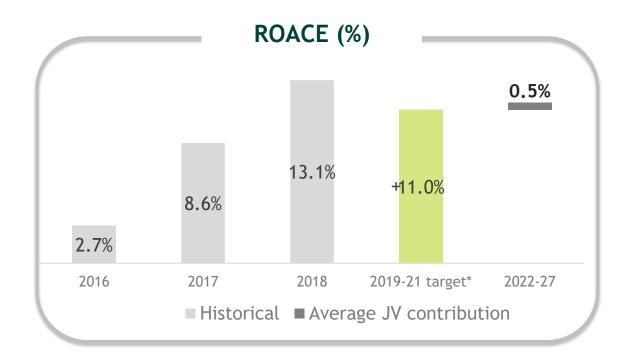
- 160 mmboe of P1 at reserves closing (2019)
- **115** mmboe 2020 between and 2023
- Peak production ~95 kboed in 2027

- Shareholder value creation
- Self-funded operation
- High level of activity planned provides rapid knowledge transfer
- Ecopetrol's team will be continuously monitoring performance

- International onshore presence
- Lighter crude and natural gas
- Short cycle hydrocarbons
- Undeveloped deacreage in risked areas
- Several locations within the area providing useful information about productivity of formations
- Strategic relationship with Ecopetrol
- Long-standing presence in Colombia
- Upstream & Midstream infrastructure to streamline the development program

Value accretive transaction to Ecopetrol that enhances shareholder returns





Knowledge and technology transfer accelerates Ecopetrol's learning curve in unconventionals

Strategic link to Colombia





Tailored Secondment Agreement with Oxy to transfer knowledge and technology to Ecopetrol



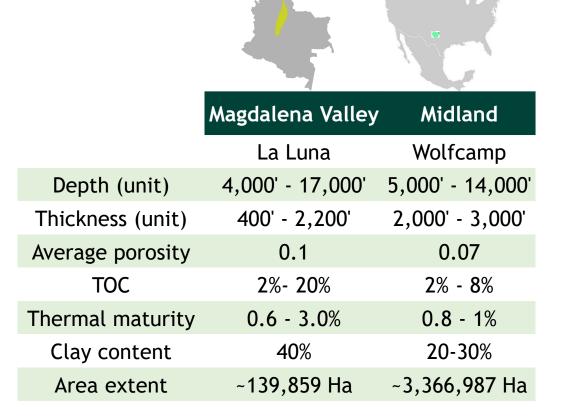
Allows competency building for local teams vis-ávis opportunities in Colombia



"Learning by doing": Ecopetrol's secondees will be fully integrated into the different operational functions of the JV



Similarities among La Luna and Wolfcamp formations enable the application of best practices



Q&A

ECEPETROL ENERGY FOR THE FUTURE

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