



LEGAL DISCLOSURE

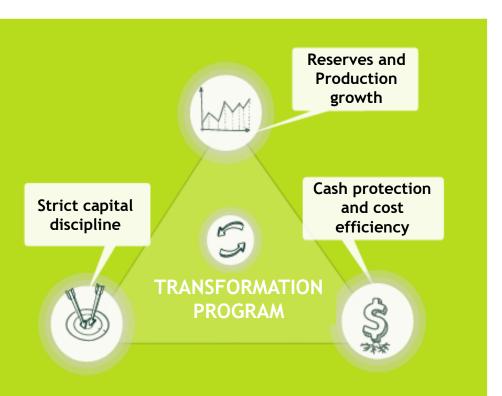
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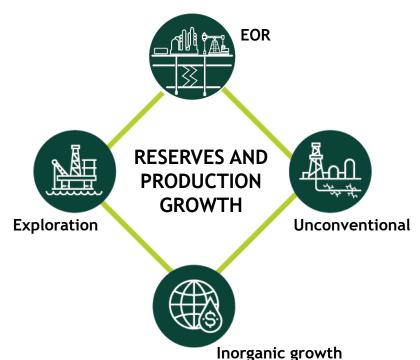
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2020+ STRATEGY

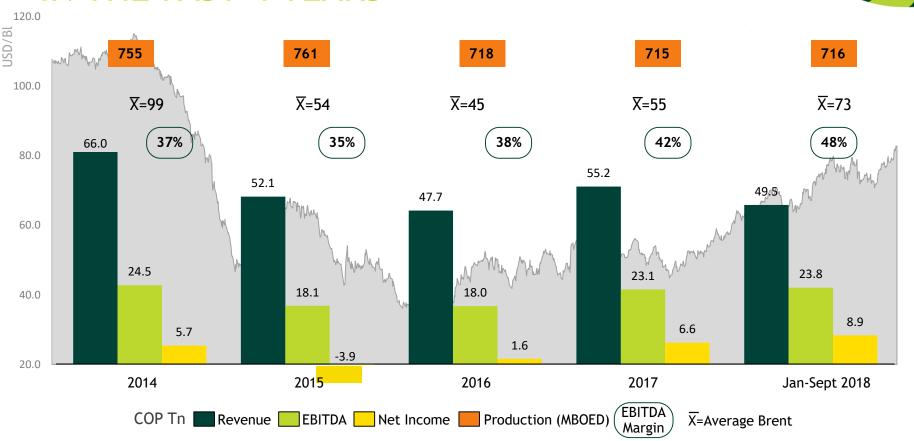
FOCUS ON PROFITABLE GROWTH





BEST FINANCIAL RESULTS

IN THE PAST 4 YEARS



SOLID RESULTS

PROFITABLE GROWTH

	2016	2017
1P RESERVES MMBOE	1,598	1,659
AVERAGE RESERVE LIFE Years	6.8	7.1
RESERVE REPLACEMENT RATIO	-7%	126%



Ja	an-Sep17	Jan-Sep18
NET PROFIT COP Tn	3.19	8.90
EBITDA MARGIN	43%	48%
NET DEBT/EBITD	A 1.7x	1.1x
DOWNSTREAM Throughput/MBD	340	371

V Upstream:

- Strategic access to Santos Basin in Brazil
- Succesful recovery program (166 mboed)

Midstream:

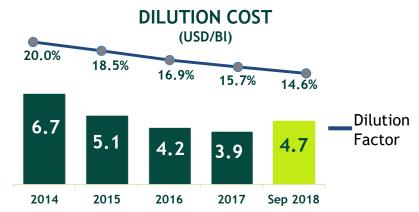
- San Fernando-Monterrey
 System came into operation in 1Q18.
- Stable operation at 600 cst



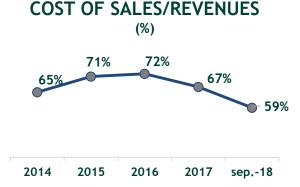
- Consolidated operation that generates value to the GE
- Greater synergies between refineries

SUSTAINED IMPROVEMENT

IN KEY OPERATING METRICS



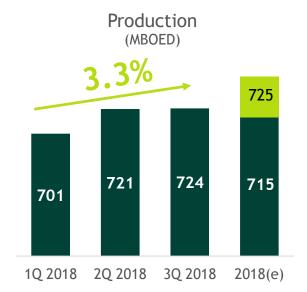
REFINING CASH COST** (USD/BI) Benchmark*** Sep 2018 2017 4.8 2016 4.1 2015 4.4 7.2



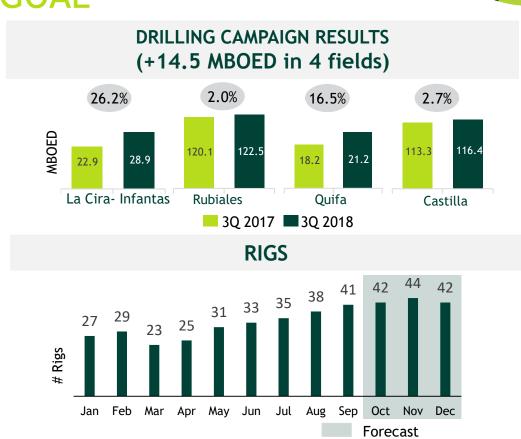


PRODUCTION

ON TRACK TOWARDS GOAL

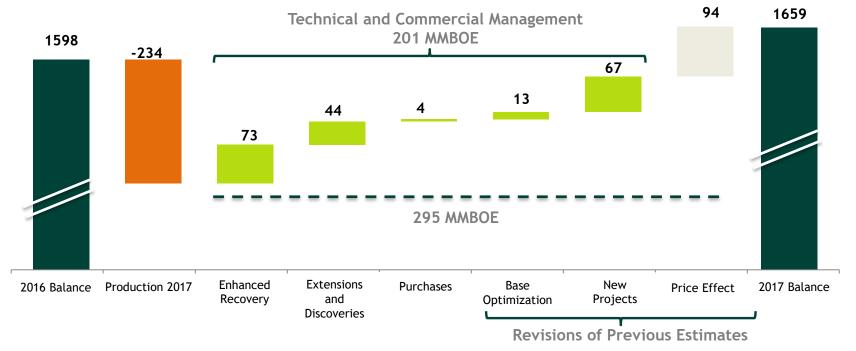


- Increase in gas production due to incremental sales and development of new demand
- Recovery program accounts for 23% of Production (166 mboed)



SUCCESSFUL RESERVES ADDITION

295 MMBOF IN ADDITIONS FOR A RFPI ACEMENT OF 126% AND EXTENDED RESERVES LIFE TO 7.1 YEARS

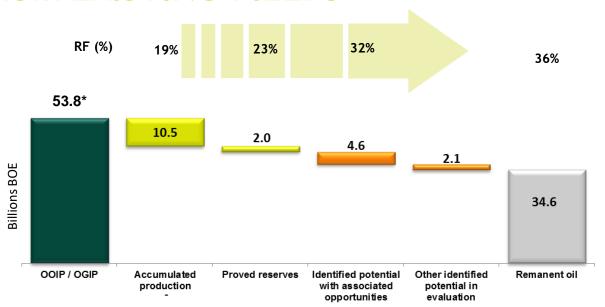






SIGNIFICANT POTENTIAL

FROM EXISTING FIELDS





Potential RF through Primary, EOR and IOR technologies

^{*}OOIP does not include: 6.4 BBOE of exploration and 7.6 BBOE of Subsidiaries Closing figures 2017, gross unrisked numbers RF: Recovery Factor

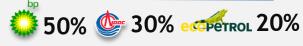
ECOPETROL WINS SUB-SALT EXPLORATION

BLOCK IN BRAZIL



- ✓ Santos: one of the most prolific basins in the World
- ✓ High materiality combined with low risk
- ✓ Strategic partners with experience in the offshore
- ✓ Opportunity for portfolio growth

CONSORTIUM



UNCONVENTIONAL POTENTIAL

MIDDLE MAGDALENA VALLEY BASIN



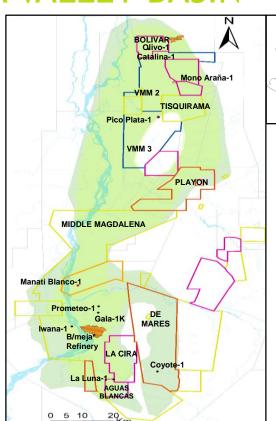
ECP E & P Agreement

ExxonMobil

ConocoPhillips

La Luna Play

Tablazo Play





of the potential resources are located in blocks owned by ECOPETROL

Ranging between

2.0-7.0 BBOE

Recoverable resources

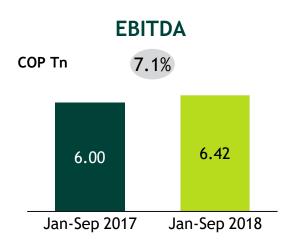


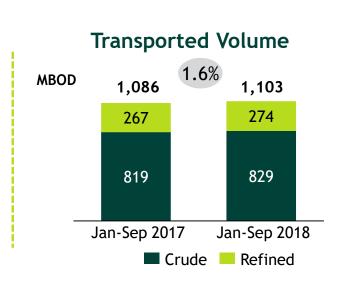


MIDSTREAM

STRONG EBITDA GROWTH









San Fernando - Monterrey System came into operation in 2018 and P135 in the second half of 2017



The transported volume of crude oil remained stable due to the reversal strategy on the Bicentenario Oil Pipeline



DOWNSTREAM

CARTAGENA REFINERY

Throughput (MBD)



- Successful stabilization process
- Highest average throughput (161 MBD -September 2018) since the start of operations

Margin and throughput composition 12.5 11.5 11.1 **—**Margin 6.8 (USD/Bl) 39% National 80% **79**% 66% crudes **Imported** 61% 58% crudes 51% 20%

Feedstock optimization with national crude

3Q 17 4Q 17

1Q 17

20 17

Higher yield of medium distillates and gasoline

2Q 18

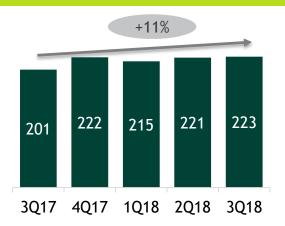
3Q 18

1Q 18

DOWNSTREAM

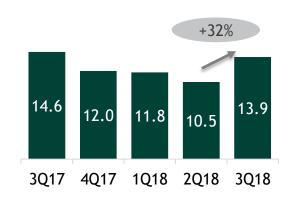
BARRANCABERMEJA REFINERY

Throughput (MBD)



- Synergies between refineries
- Stability of operation

Gross Margin (USD/Bl)



Margin recovery

3Q 2018 maximum throughput and margins of the year for the two refineries

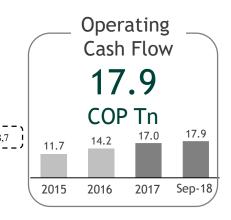


OUTSTANDING RESULTS

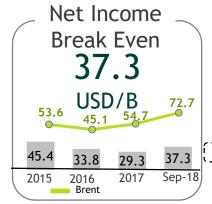
AS OF SEPTEMBER 2018

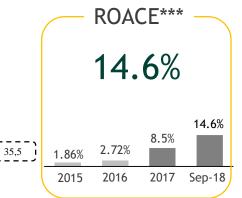


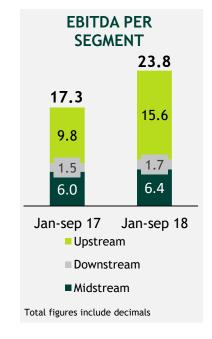












Without the effect of the León exploration write-off (767 billion pesos)

CAPEX

FOCUSED ON PROFITABLE GROWTH





Development of enhanced oil recovery technologies

Maximizing gas value: Cupiagua condensate stabilizer unit

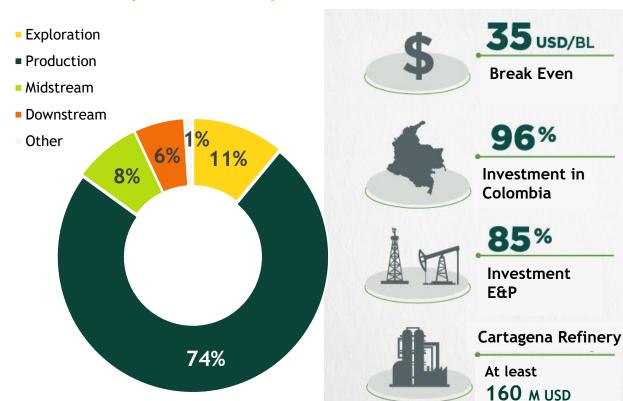
Llanito and Yariguí

Seismic acquisition

Studies on formations such as Tibú, Área Sur, Caño Sur, Provincia,

2018 INVESTMENT PLAN

USD \$3.0 TO \$3.5 BILLION





Production

Between 715 and 725 MBOED



Drilling

620 development wells at least 12 exploration wells and 28 rigs



EBITDA in 2018

More than

41 thousand kilometers 2D and 3D seismic



2018 OUTLOOK





Committed to production goal: 715 -725 MBOED



Increase in activity in line with the investment plan



Capital discipline under current oil price scenario



Cleaner fuels and incorporation of sources of renewable energy







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OIL AND GAS INFRASTRUCTURE