



VACA MUERTAFIELD TRIP

TRANSFORMING LIVES THROUGH ENERGY

JUNE 2019

IMPORTANT NOTICE



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Our estimates of EURs, included in our Development Costs, are by their nature more speculative than estimates of proved, probable and possible reserves and accordingly are subject to substantially greater risk of being actually realized, particularly in areas or zones where there has been limited history. Actual locations drilled and quantities that may be ultimately recovered from our concessions will differ substantially. Ultimate recoveries will be dependent upon numerous factors including actual encountered geological conditions and the impact of future oil and gas pricing.



01	INTRODUCTION
02	YPF SHALE ACTIVITY
03	SHALE OIL PROJECTS
04	INFRASTRUCTURE
05	MILESTONES & FUTURE CHALLENGES



Accelerate development activity in Loma Campana

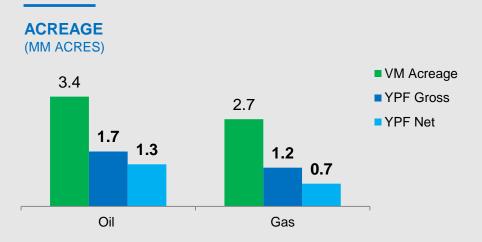
Replicate the success in La Amarga Chica and Bandurria Sur

Expand the boundaries of Vaca Muerta oil through pilots

Prepare next wave of developments

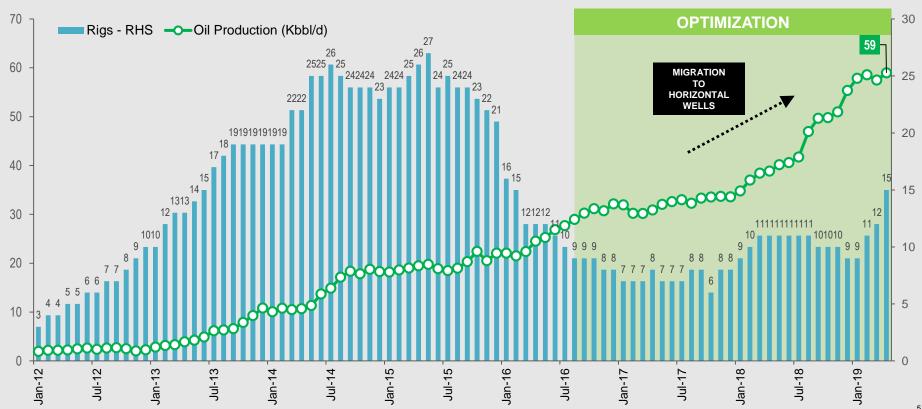
Evaluate different alternatives to unlock shale gas potential





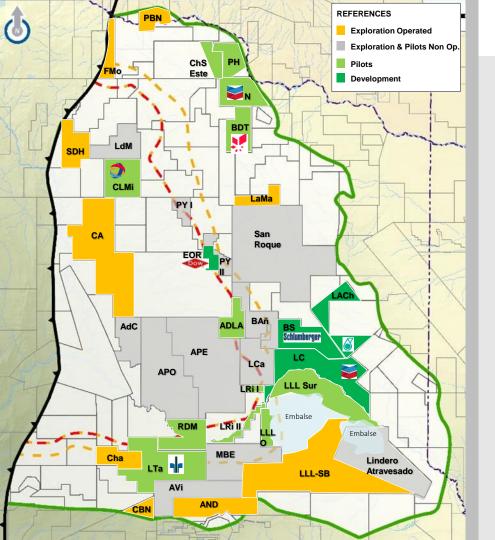


OIL PRODUCTION / DRILLING RIGS









TOTAL PRODUCTION

Operated Gross YPF (Avg. June 2019)

61.4 Kbbl/d 9.6 Mm³/d Gas

OPERATED ACTIVE WELLS VM wells

720

June 2019

2019 CAPEX Operated **Gross YPF**

~2bn usp

OPERATED DRILLING RIGS (1)

(1) Include 1 Spudder Rig

June 2019 **STRATEGIC PARTNERS**





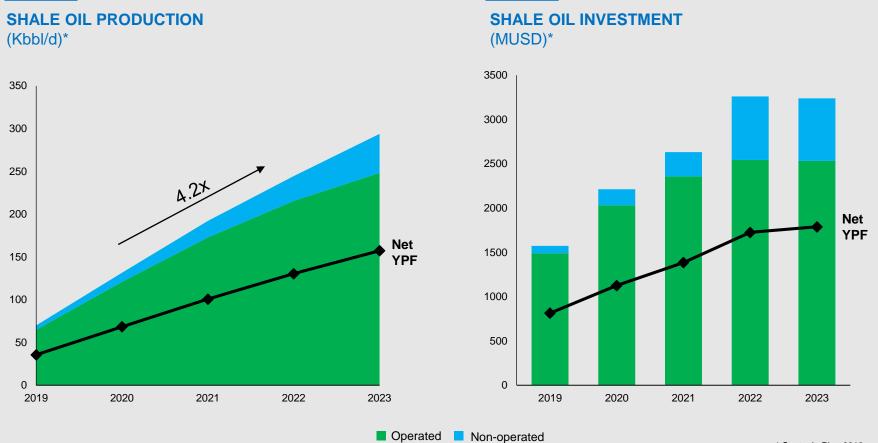




Schlumberger









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VACA MUERTA VS. OTHER UNCONVENTIONAL RESOURCE PLAYS





EXPLORATION ACTIVITY IN VACA MUERTA



2018-19 Expansion7 WELLS of Vaca Muerta boundaries

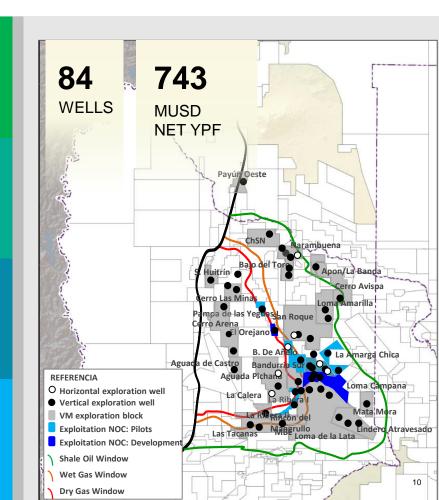
2012-17 Pilots: LAC, BS, Lri, BdA, PdY
 61 WELLS Initial development phase of LC and EOr
 Start of shale gas exploration

2011 Delineation of Loma Campana

14 WELLS Expansion of shale oil window

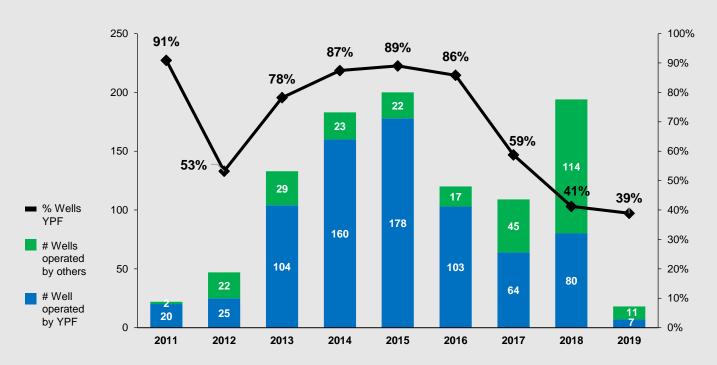
Exploration drills the 1° hz well (500 m)

2010 2007 – 2010
 2 WELLS Geological studies
 Discovery of shale gas and shale oil





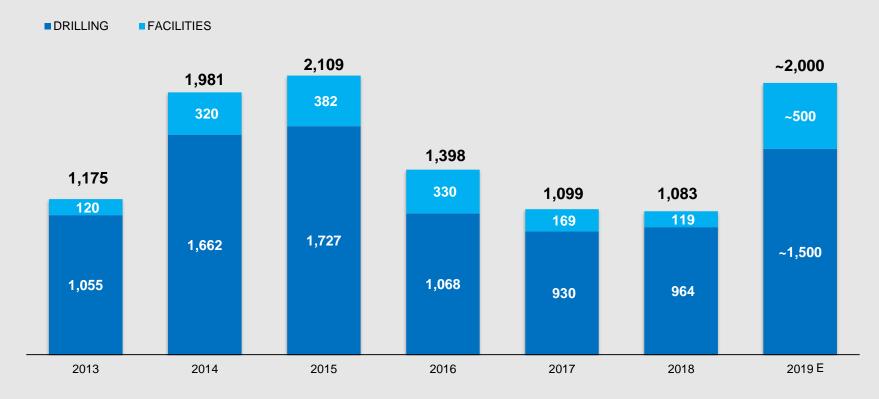
YPF AS OPERATOR(1)







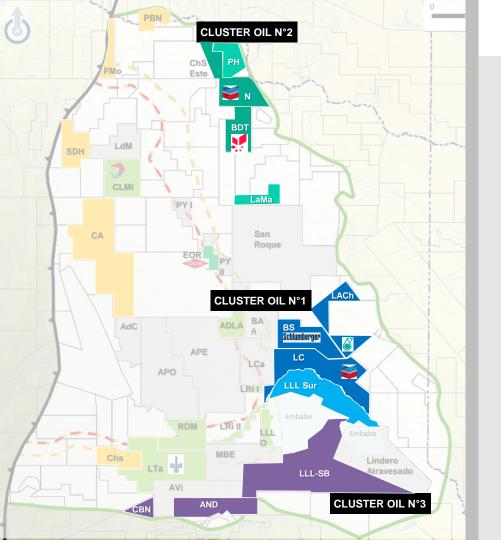
GROSS OPERATED INVESTMENT VACA MUERTA (IN MILLIONS OF USD)





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CLUSTER
OIL N° 1
DEVELOPMENT

Loma Campana – Bandurria Sur – La Amarga Chica

Future expansion to LLL Sur

CLUSTER
OIL N° 2
DELINEATION

Bajo del Toro – Narambuena – ChSN

Future expansion to Las Manadas and Puesto Hernandez

CLUSTER
OIL N° 3
EXPLORATION

Sierra Barrosa

Al Norte de la Dorsal

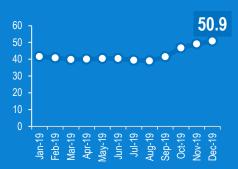
Cerro Bandera



LOMA CAMPANA

2019

GROSS PRODUCTION (KBBL/D)



GROSS CAPEX 2019 ~670 MUSD

RIGS Dic-19: 4
Full Field Development
Plateau (10 years) 100 kbbl/d
WELLS 1,488
GROSS CAPEX +15 BUSD

LA AMARGA CHICA

2019

GROSS PRODUCTION (KBBL/D)



GROSS CAPEX 2019 ~560 MUSD

RIGS Dic-19: 4
Full Field Development
Plateau (12 years) 65 kbbl/d
WELLS 734
GROSS CAPEX +7.5 BUSD

BANDURRIA SUR

2019

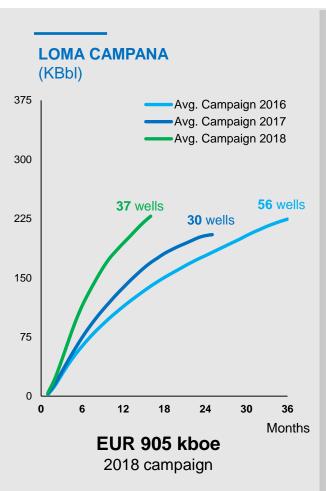
GROSS PRODUCTION (KBBL/D)

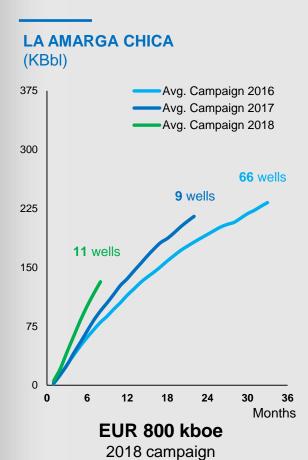


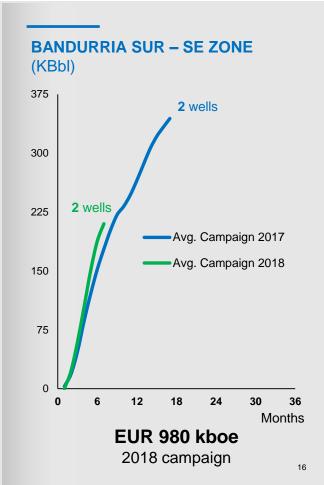
GROSS CAPEX 2019 ~290 MUSD

RIGS Dic-19: 3 Full Field Development Plateau (10 years) 58 kbbl/d WELLS 578 GROSS CAPEX +6.7 BUSD



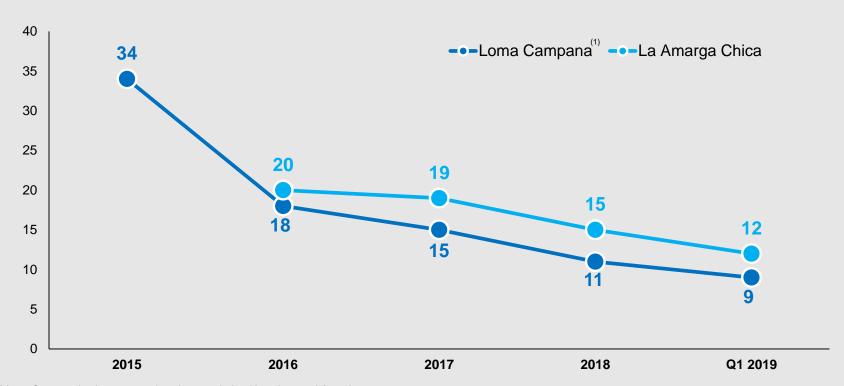








DEVELOPMENT COST – HORIZONTAL WELL (USD/BOE)





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LOMA CAMPANA OIL
TREATMENT FACILITY

LC-PELLEGRINI OIL PIPELINE

LA AMARGA CHICA OIL
TREATMENT FACILITY

BANDURRIA SUR OIL
TREATMENT FACILITY



LOMA CAMPANA

Construction: **2014-2016**

Start-up: Dec-2016

Capex:

Current capacity:

MMUSD 200

62.9 kboe/d

Main contractor:

AESA

 Blocks using the plant: Loma Campana, La Amarga Chica, Bandurria Sur and Bajada de Añelo (operated by Shell)

- Dedicated control systems for process safety
- Control room
- Possibility to operate remotely



2019 - 2020

Loma Campana

Expand current capacity to 113.2 kboe/d

Start-up: 4Q-2019

La Amarga Chica

Construction: 2019

Investment: MUSD 75

Start-up: 2Q-2020

Capacity: 50.2 kboe/d

Bandurria Sur

Construction: 2020

Investment: MUSD 75

Start-up: 2Q-2021

Capacity: 50.2 kboe/d



MAIN CHARACTERISTICS

From:

Loma Campana crude treatment plant

To:

Pellegrini Lake refueling station (Medanito-Allen Oldelval pipeline)

Length: Diameter:

88 Km 18"

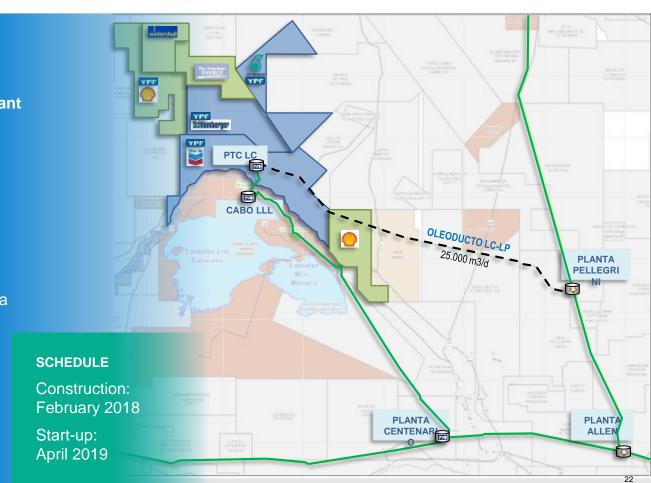
Transportation capacity: 25,000 m³/d (157 Kbbl/d)

New pump station in Loma Campana

Simultaneous operation to the current system

CAPEX

Total: ~ 65 MUSD⁽¹⁾







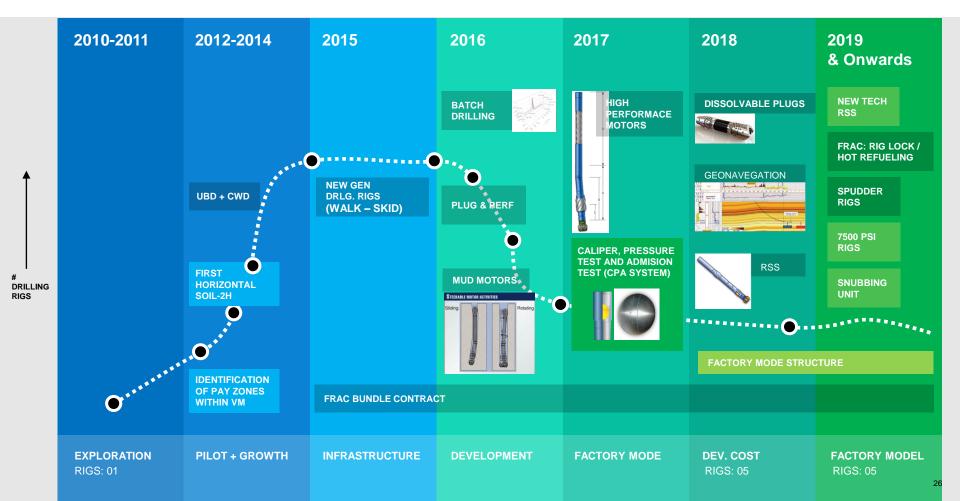


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RATE OF PENETRATION (ROP)

- 6 3/4" architecture
- BHA design and new technologies
- · Optimization support room
- Performance based contract incentives
- Flexible geo-navegation window

FLAT TIMES

- 6 3/4" architecture & casing run times
- · BHA design and set-up times
- Backreaming
- Performance based contract incentives

NON-PRODUCTIVE TIME (NPT)

- BHA design and new technologies
- Diversify BHA providers
- Performance based contract incentives
- LEAN execution





Increase activity while maintaining a safety track record

Replicate the success of Loma Campana in new developments

Confirm the productivity of new hubs

Plan for new developments in those new hubs

Keep the portfolio with optionality

Ensure evacuation of future production

Evaluate alternatives to unlock shale potential



