

RÍO NEGRO

The role of the hydrocarbons in productive provinces

Accompanying the country's development

**SECRETARIO DE ENERGÍA
SEBASTIÁN CALDIERO**
2019 August - Buenos Aires

**CONTÁ CON
NOSOTROS**

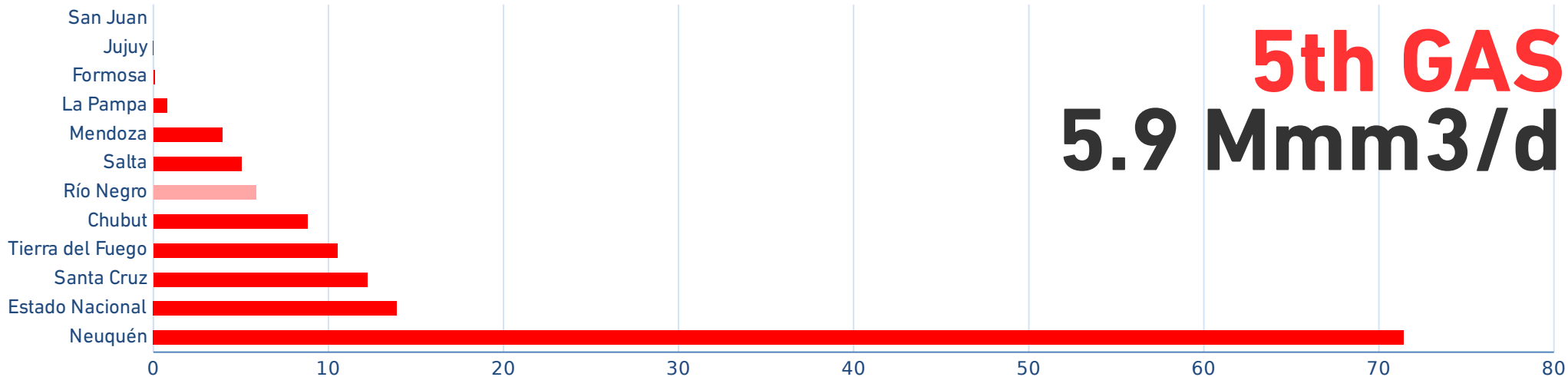
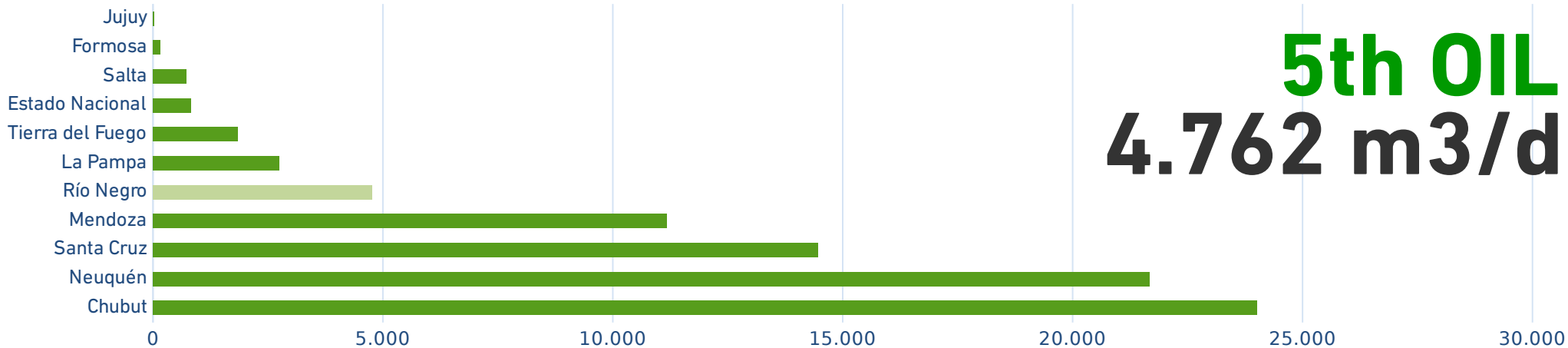
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RIO NEGRO IN NATIONAL CONTEXT

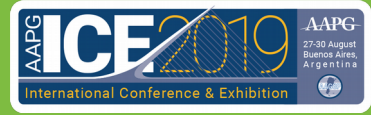
Oil and gas production per Province

Jan-Jun 19



HYDROCARBON ROYALTIES

70% comes from oil



\$540 Million pesos
10% Provincial budget

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OIL AND GAS INDUSTRY INVERSION

The sector generates more than 8 thousand jobs



**U\$S 345 million
an investment made in 2018**

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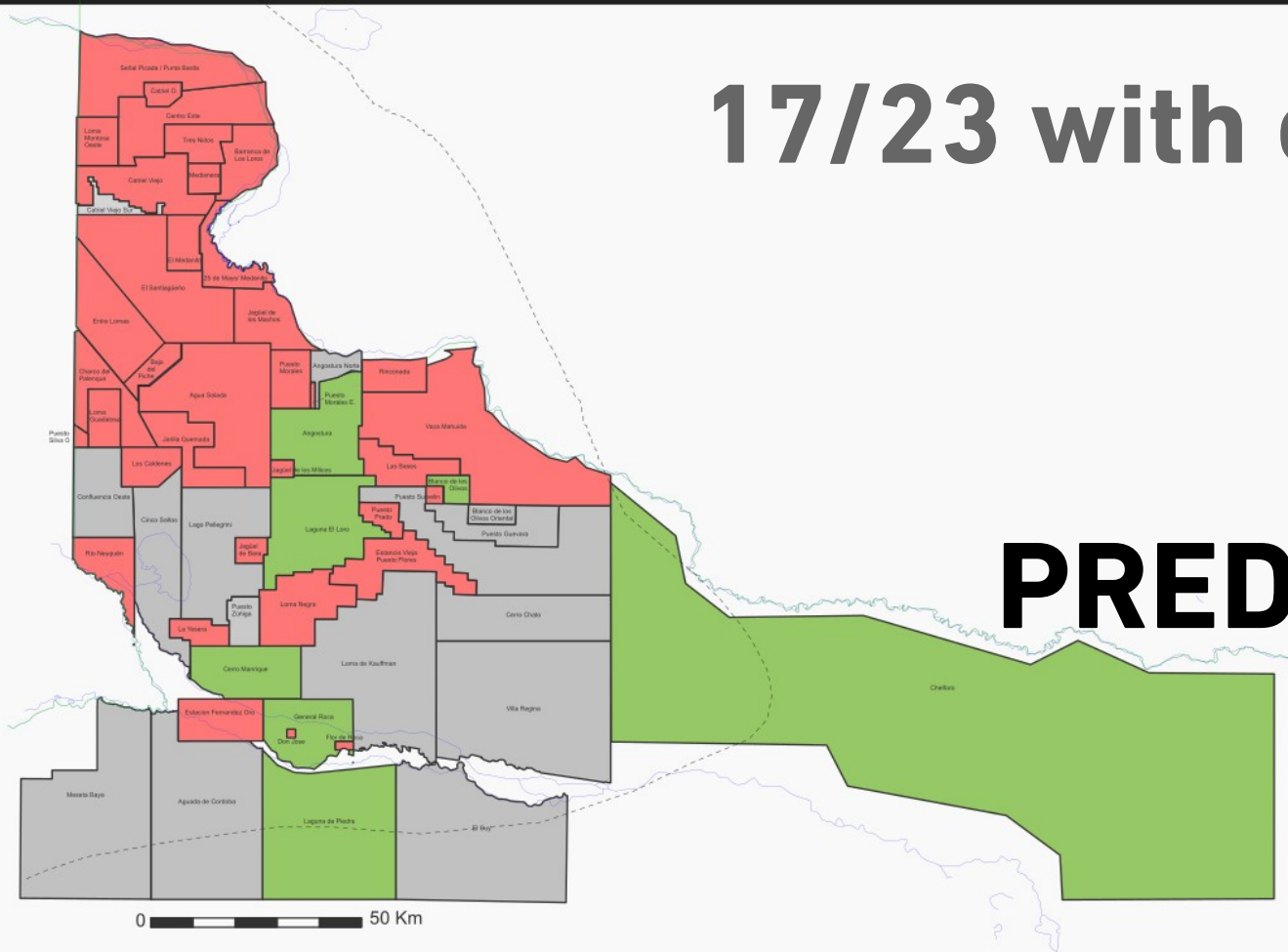
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CLEAR RULES

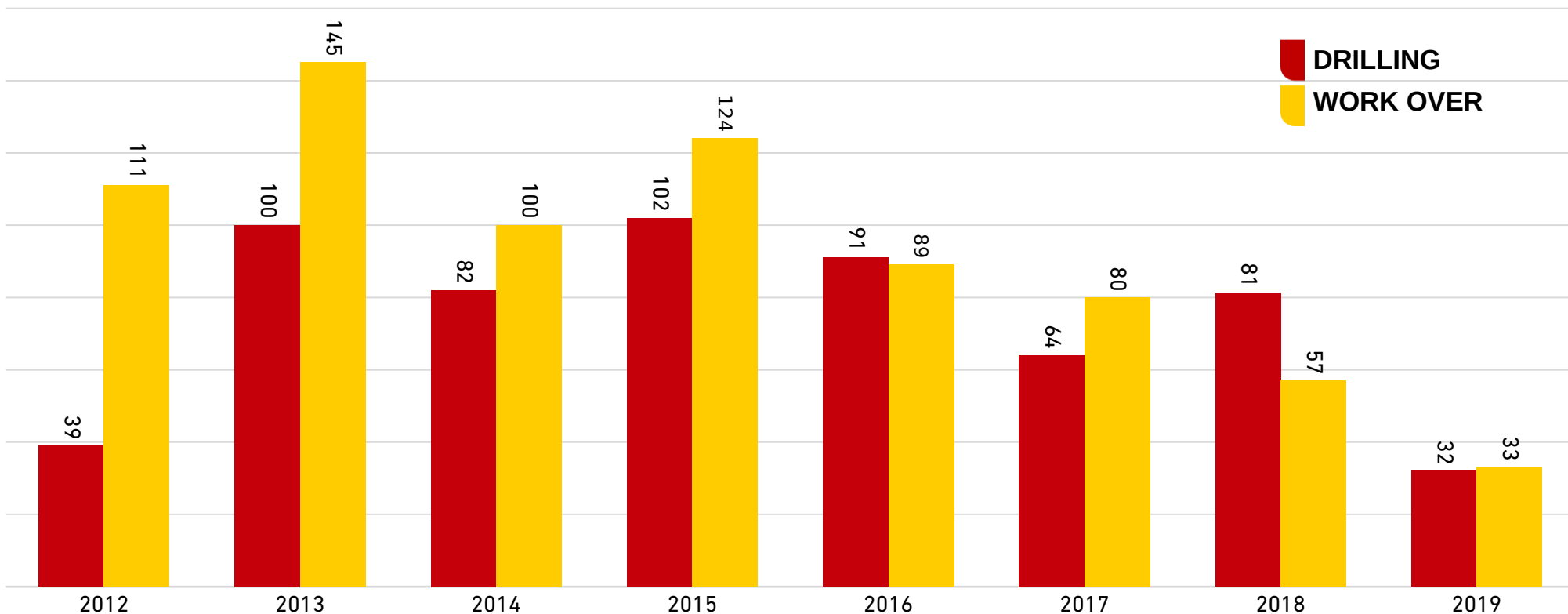
Renegotiation of all the concessions complete

17/23 with concessions
92.9% oil
93% Gas
10 years
PREDICTABILITY



ACTIVITY IN OURS FIELDS

Activity since 2012

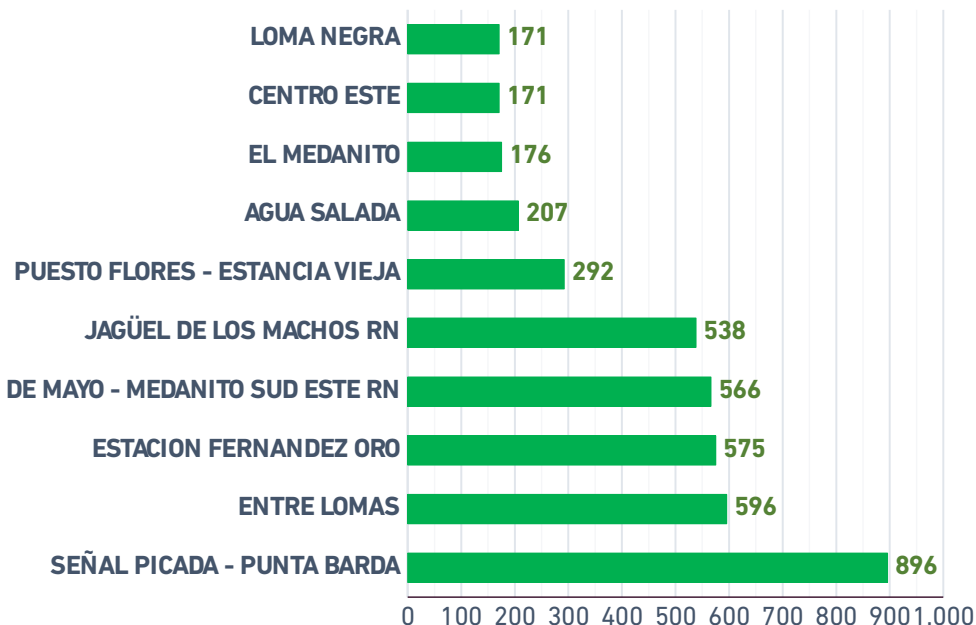


The 2019 data is updated until 7/31/19

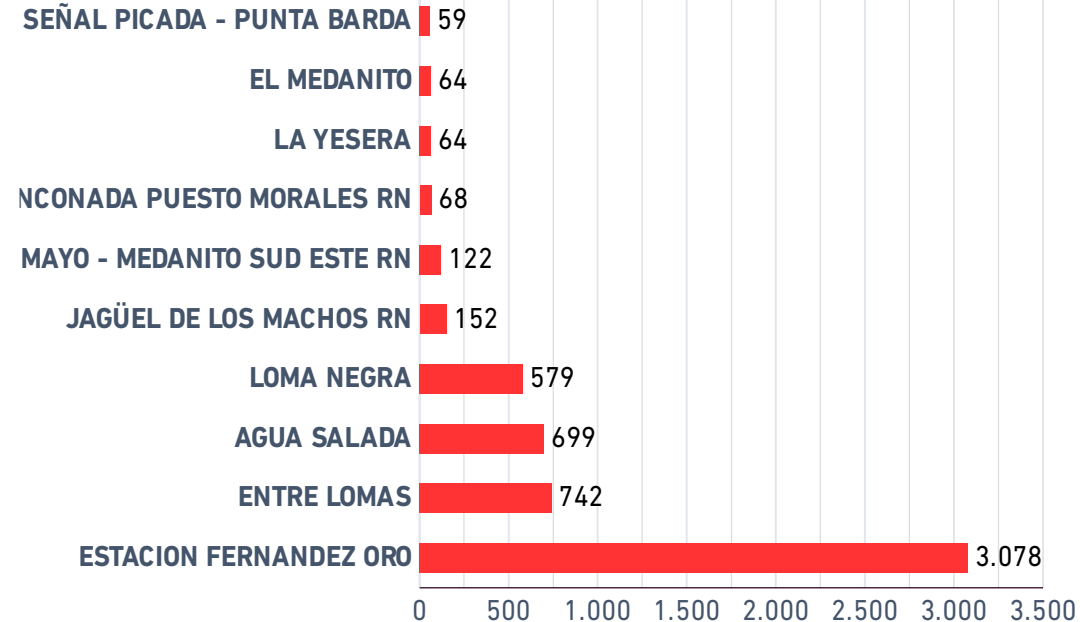
OUR MOST PRODUCTIVE BLOCKS

Top 10 productive hydrocarbons blocks in Rio Negro

OIL (m3/d)



GAS (Mm3/d)



LIVING TOGETHER

Gas, Oil and Fruits



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OPERATING COMPANIES



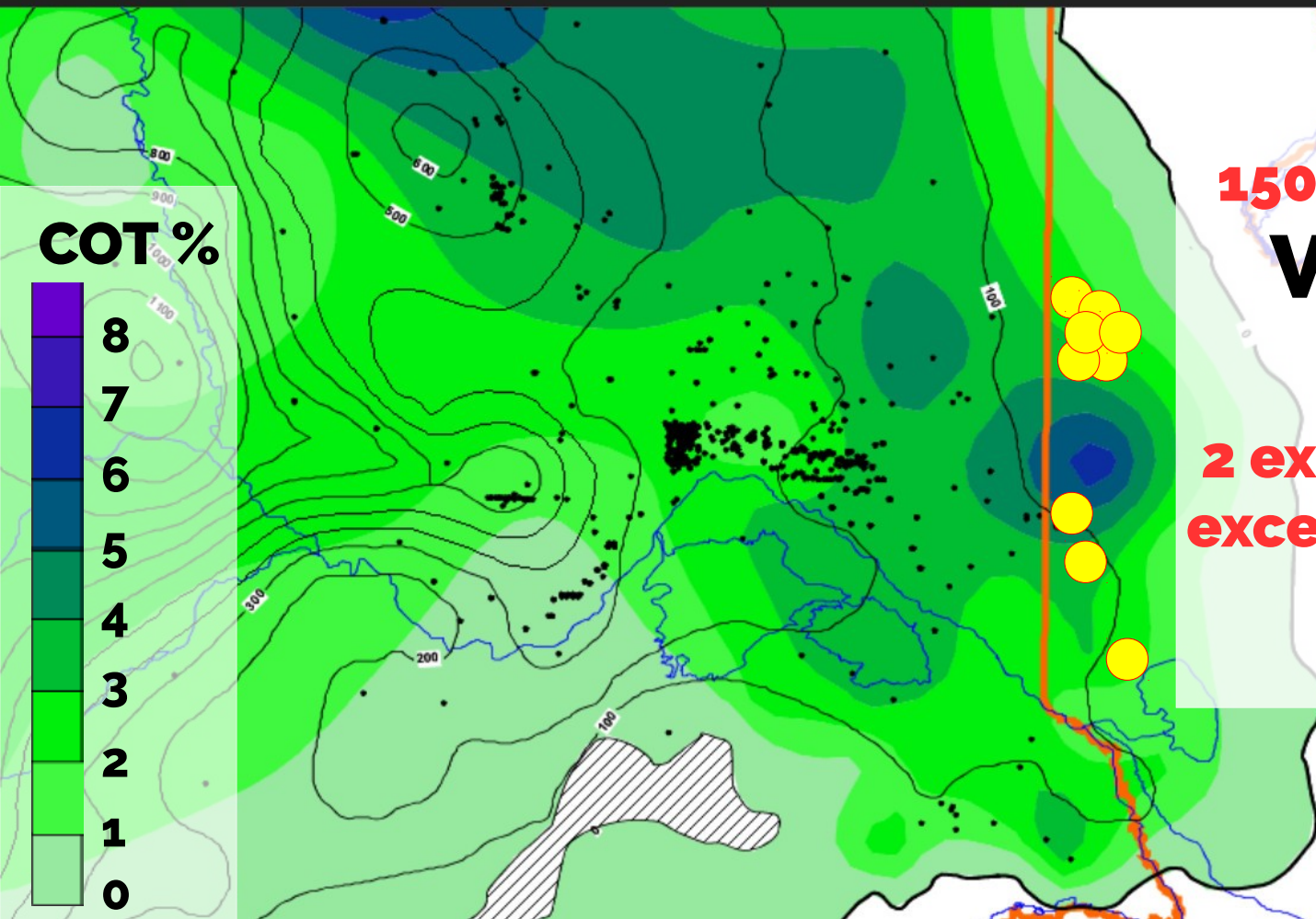
VACA MUERTA FORMATION

Neuquen Basin



SHALE PLAY

Vaca Muerta Formation in Rio Negro



4.000 km²

150 m highest thickness

**VM Production
in 8 wells**

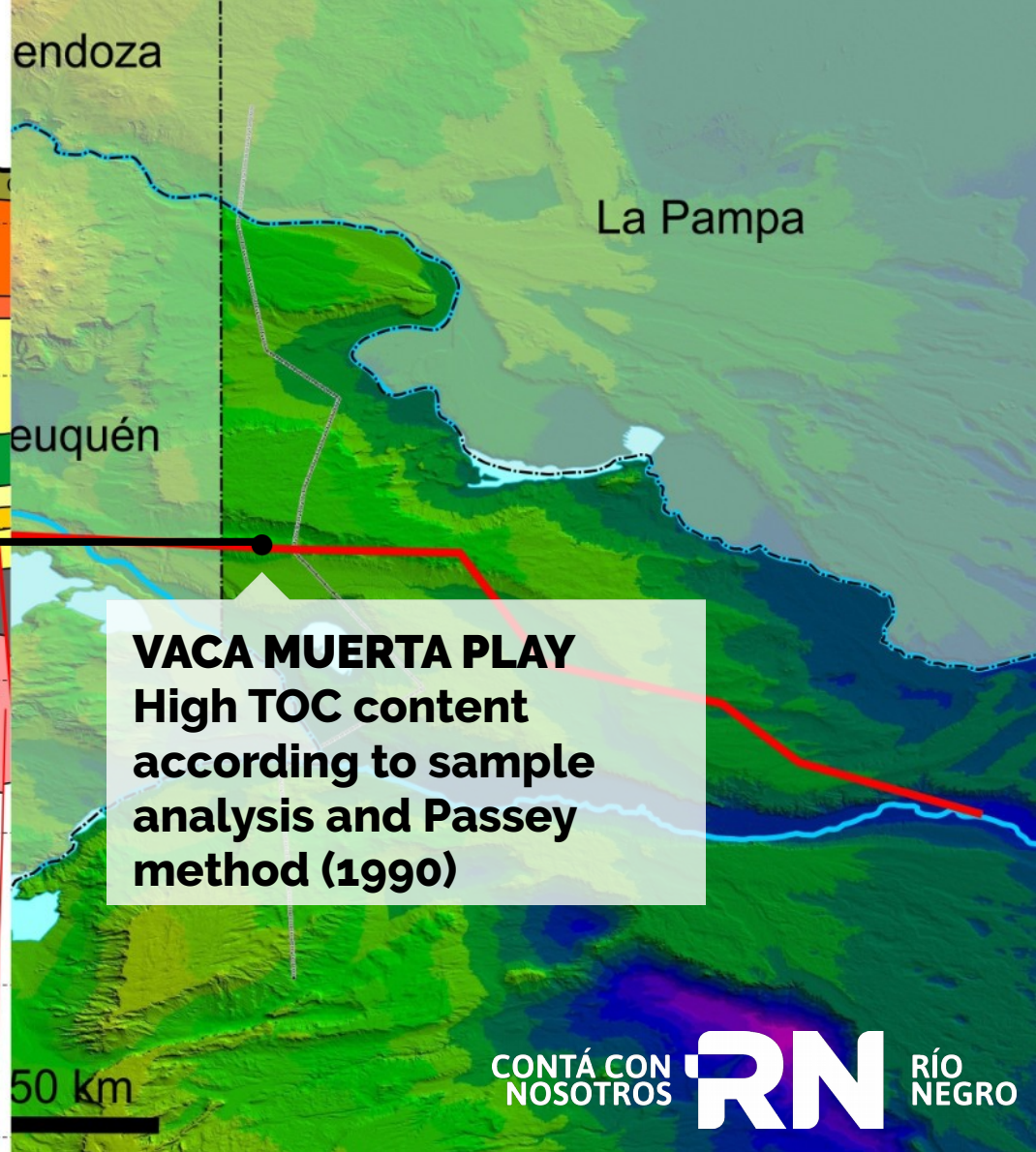
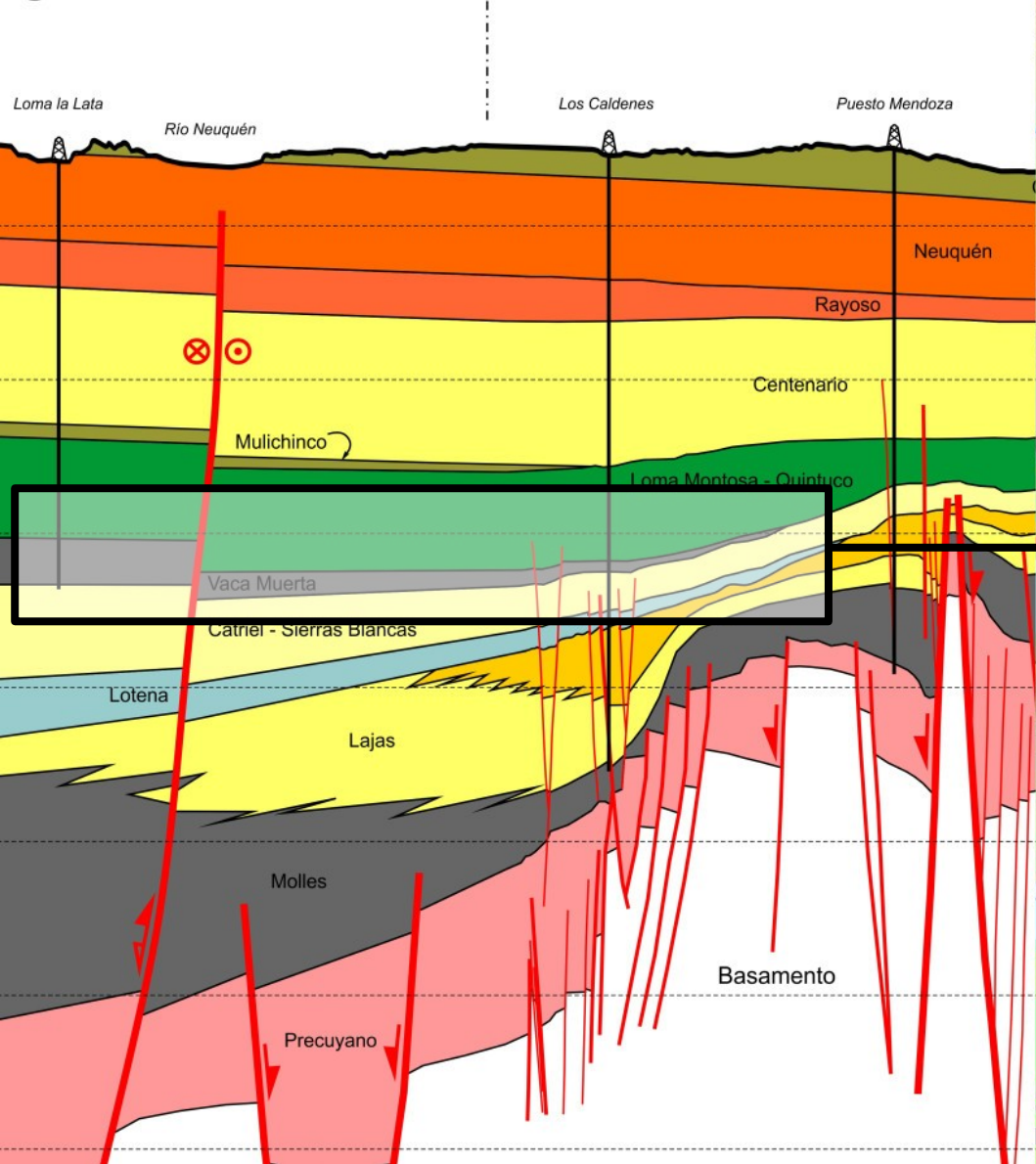
**2 exploratory wells with
excellent characteristics**

**High potential in
fractured play**

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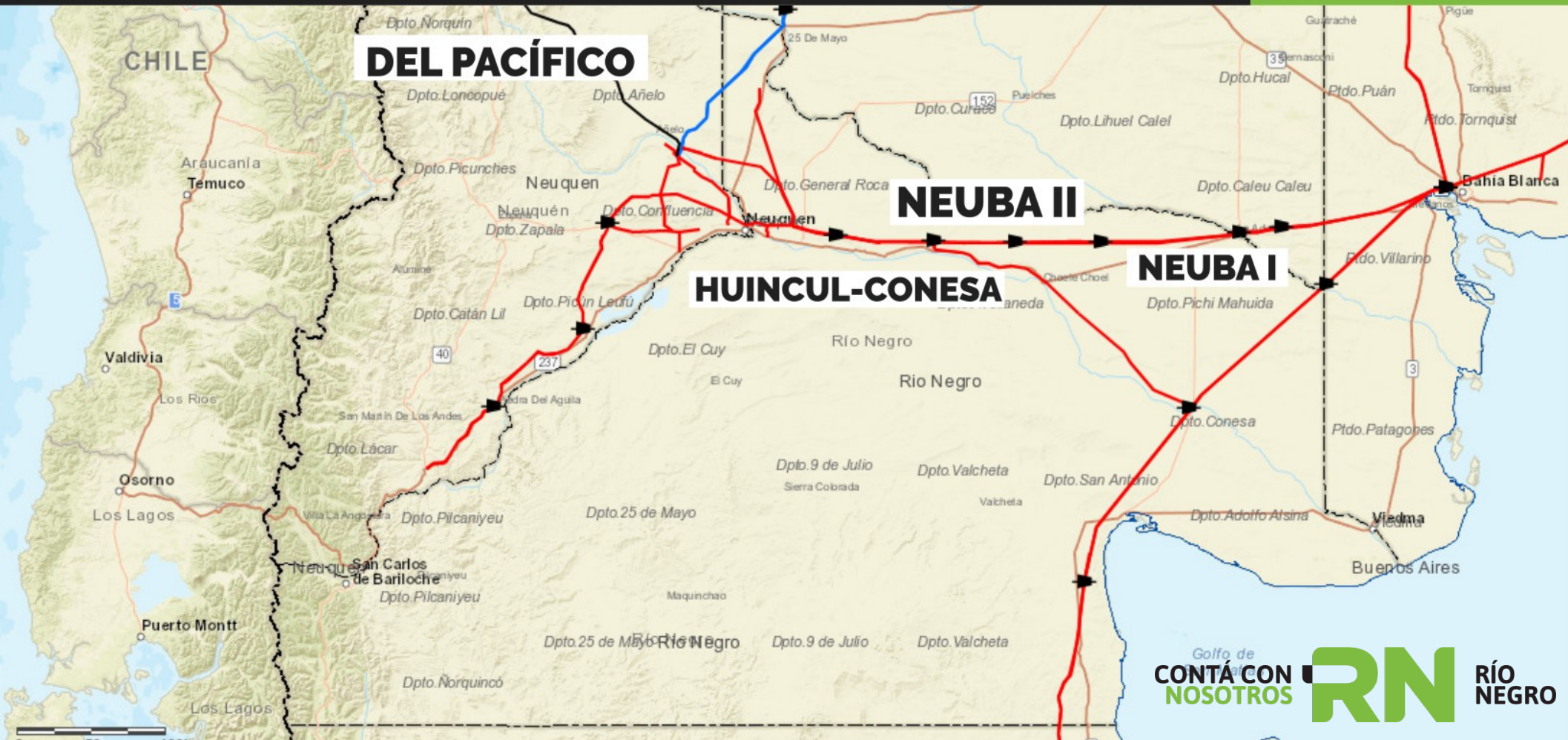
VACA MUERTA PLAY
High TOC content
according to sample
analysis and Passey
method (1990)

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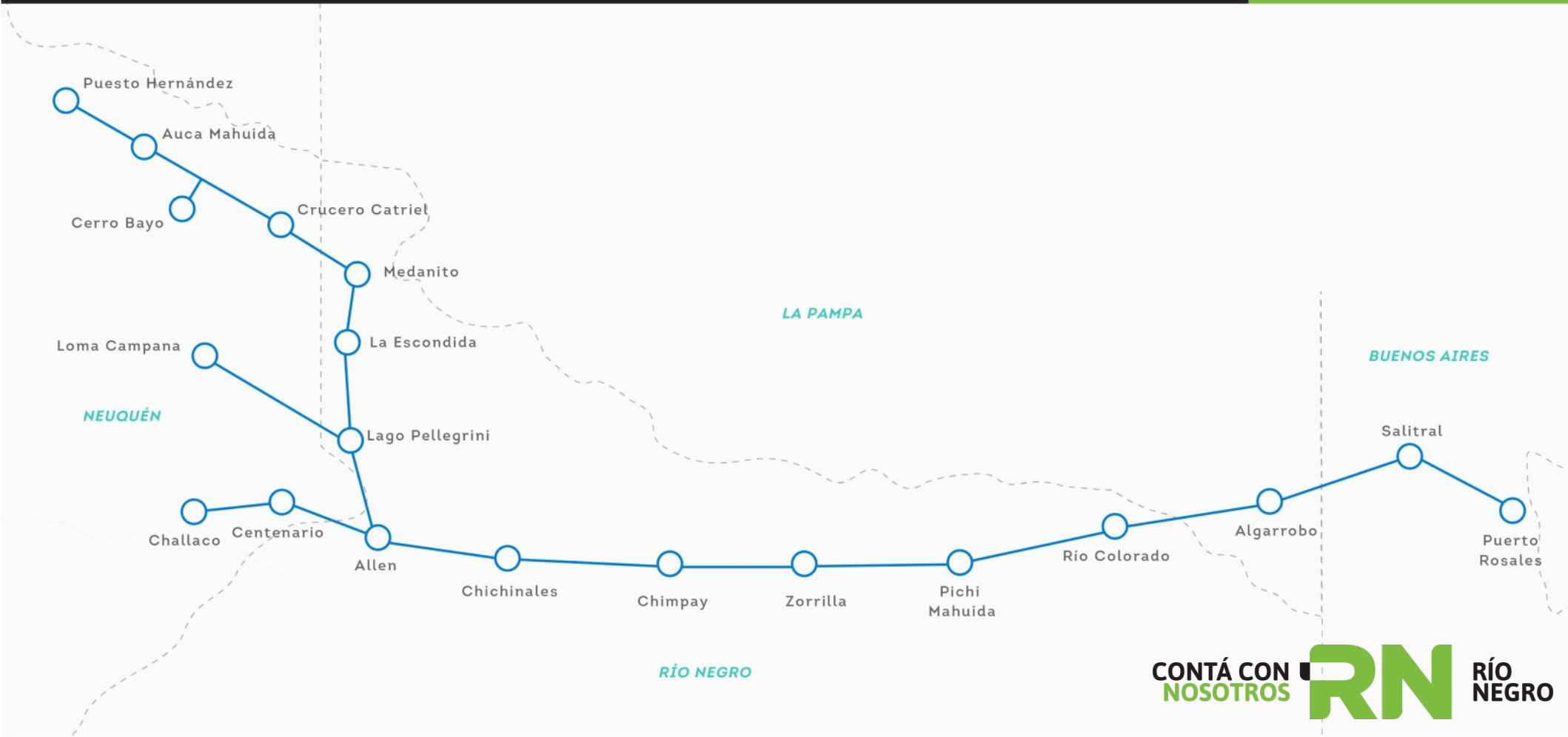
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Hydrocarbon transport



MAIN OIL PIPES

Hydrocarbon transport



RECENT IMPROVEMENT

Hydrocarbon transport

YPF



Neuquén

Río Negro

Loma Campana

88 km

Estación de Bombeo
Lago Pellegrini

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PROYECTED IMPROVEMENT

Bajada del Palo - Entre Lomas oil pipe



 **5.000**^{m³}
CAPACITY

 **55**
EMPLOYEES

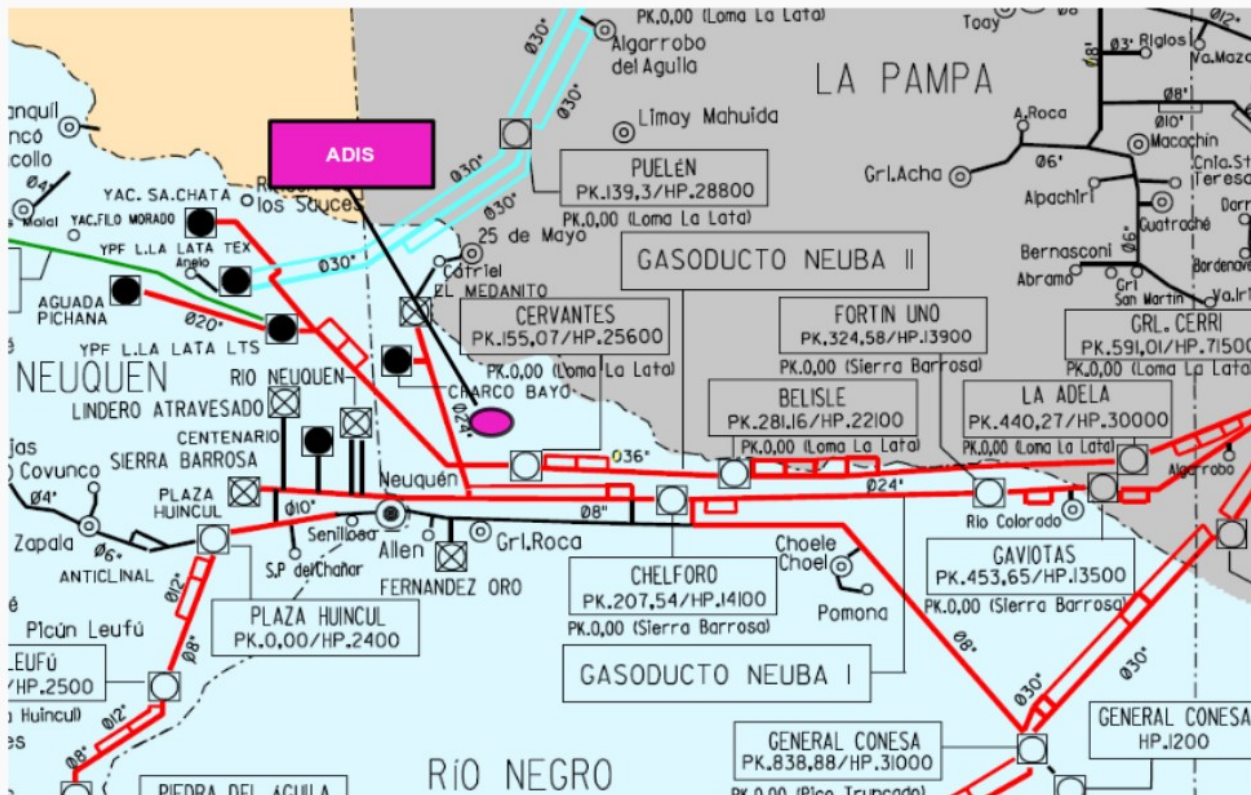
 **300**^{USD}
MILLION

 **39.3**^{Kms}
PIPE LENGTH

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GAS STORAGE

Agua Salada concession (Aguada de Los Indios Sur Project)



Source gas to inject comes from
Fortin de Piedra Block (Neuquen)

DEPLETED RESERVOIR

546 | WORKING GAS: 373
MM m³ CUSHION GAS: 173

140 MILLION

10 WELLS

2.5
SUMMER
MM m³/d

3.5
WINTER
MM m³/d



Operating since 1983

Deep water port

Connected with four
national routes (3, 23, 251 y 304)



MULTI TRAILER TRUCKS

Sand frac transport

Maneuverability test

700 tons daily transport

Cost reduction (Bahia Blanca)



THANK YOU

Secretario de Energía **SEBASTIÁN CALDIERO**

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