OIL & GAS Exploration and Exploitation CURRENT SITUATION











PERUPETRO S.A. is the Peruvian state company whose role is to promote, negotiate and supervise contracts for the exploration and exploitation of hydrocarbons in Peru.

MISSION



To manage efficiently hydrocarbon resources in an environmental and socially responsible way, providing energy security to Peru.

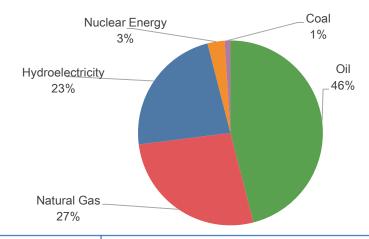




Energy: Importance of Hydrocarbons



In Peru, OIL & GAS contribute with more than 70% of the energy consumption of the country.





PERU is an oil importer, even though there is great potential to produce our own oil.





Benefits of the Hydrocarbons activity

### ##### ########	The oil and gas industry makes an important contribution to the Peruvian economy	%	Contribution in ROYALTIES US \$ 21,000 million
%	OIL FEES US \$ 10,000 million		CAPEX between 2014-2019 US \$ 4,000 million
\$	INVESTMENT expenditure US \$ 17,000 million		OPEX between 2014-2019 US \$ 11,000 million

Catalytic agent of ...



Source of DIRECT AND INDIRECT employment for thousands of families



Growth engines of the NATIONAL ECONOMY



Source of ENERGY ASSURANCE



Direct contributor to the improvement of NATIONAL COMPETITIVENESS

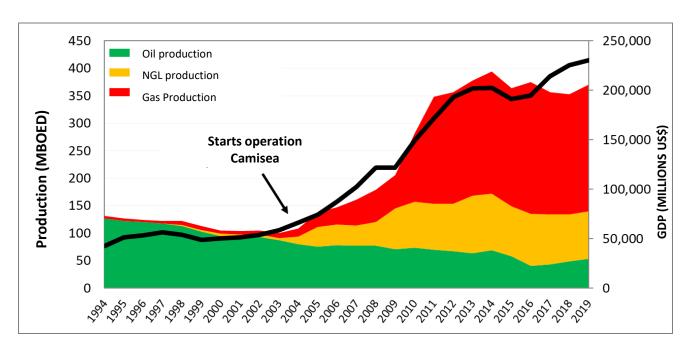


Invigorating and Decentralizing INVESTMENT





Gas and oil in Peru's development

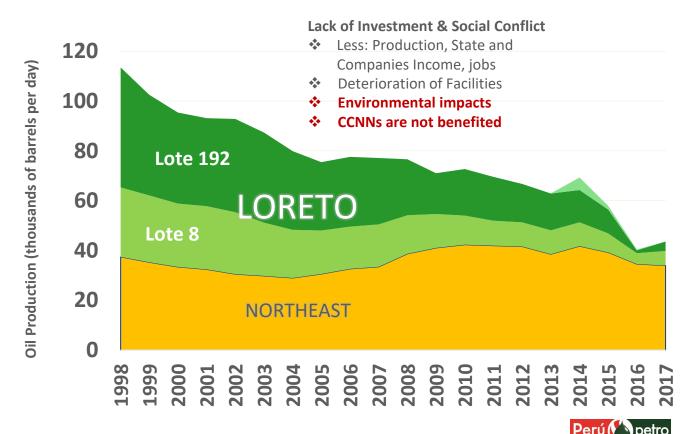


The entry of Camisea generated energy availability at competitive prices and has been the engine of development for the last 15 years



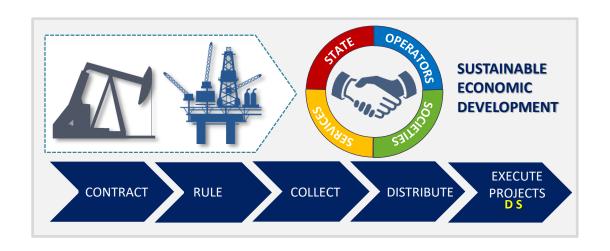


Oil Production History 20 years





Value chain Sustainable development



Transparent and Efficient Management of the Oil & Gas Industry

Modern, Clear and Complete Regulatory Framework

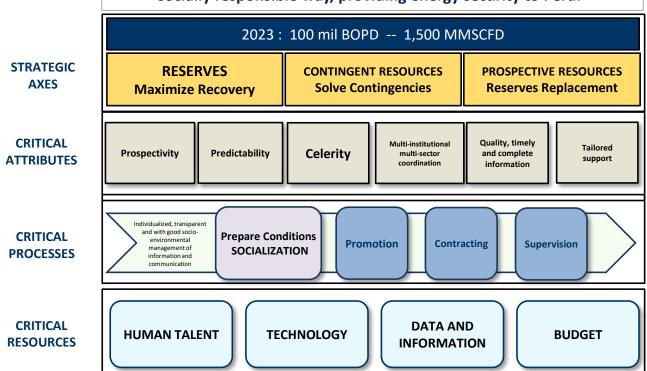
Institutions with Capabilities





Strategic Plan

"To manage efficiently hydrocarbon resources in an environmental and socially responsible way, providing energy security to Peru."











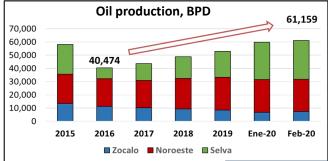


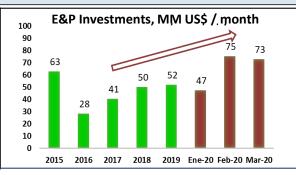
Oil & Gas: PRE-COVID 19

100,000 BOPD

LOH, aligning sectors, intense promotion, approvals

Qualification of companies, royalty framework, contracts to be terminated







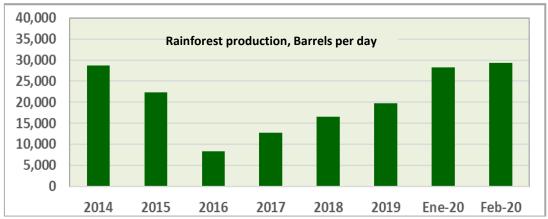
Block Z38, 108: Exploratory wells in border areas TULLOW, OCCIDENTAL, BP.





Oil in the Amazonian Region - PRE COVID









Economy Impact in Loreto Region



Region

 enero 2, 2020

 ACTUALIDAD, NOTICIAS

- · Conforme a información del INEI.
- El avance del sector Minería e Hidrocarburos estuvo asociado a la mayor explotación de petróleo crudo.

De acuerdo a información proporcionada por el Instituto Nacional de Estadística e Informática (INEI), la Región Loreto con 6,2% registró un crecimiento superior al Producto Bruto Interno del tercer trimestre de 2019.



BANCO CENTRAL DE RESERVA DEL PERÚ

4

The raw oil production fiscalized in February was 3.1 times more than the registered in the same month of previous year

Mining

LORETO: Sub-sector Hidrocarburos 1/				
(Var. % real respecto al mismo periodo del año anterior)				
Fatanatina				

Hidrocarburos	Estructura Porcentual	Febrero			Enero - Febrero				
	2018 2	2019	2020	Var.% C	contribución 9	2019	2020	Var.% C	ontribución3
Petróleo crudo	100,0	254	777	205,9	205,9	353	1 569	344,5	344,5
SECTOR MINERÍA 2/ 100,0				205,9	205,9			344,5	344,5
1 Cifras preliminares									

2/ Estimado a precios de 2007.

3/ En bas e a la es tructura porcentual de similar periodo de 2019.

Fuente Perúpetro SA

Elaboración: BCRP, Sucursal Iquitos. Departamento de Estudios Econômicos

Por su base de comparación muy baja, explicada en ese entonces por los derrames de petróleo en el oleoducto norperuano y la paralización de labores productivas en algunos lotes como el 192. A fines de febrero de 2020, ese mismo lote enfrentó conflictos sociales, explícitamente, a partir del día 27 paralizó sus labores productivas por corte de energía por parte de una comunidad que le presta servicio; el resto de lotes estuvo en un estado normal.





International Promotion - NAPE 2020

- ☐ Date: February 03-07, 2020. Houston, Texas.
- □ PERUPETRO participated in NAPE 2020, one of the most important oil events worldwide, to present the areas available for investment in hydrocarbon E&P.
- □ PERUPETRO again present.
- Exhibition and Presentation at Int. Theater
- ☐ Promotion of Available Areas Interest in Offshore
- Contact with exploration / reservoir geologists
- Geo-portal diffusion









APPEX LONDON 2020

- Date: March 03 05, 2020. London, United Kingdom
- PERUPETRO presented the investment opportunities that Peru offers for the exploration and exploitation of hydrocarbons as well as the hydrocarbon potential of its semi-explored basins.
- Available Areas Geoportal.
- Meetings with interested companies.









COVID 19 IMPACTS





But COVID 19 arrived.... Isolation, Uncertainty, Suffering



Informality Health Education



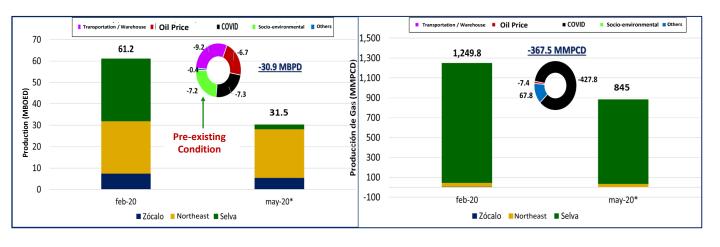








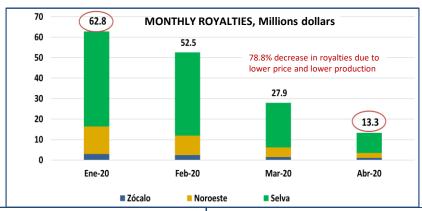
COVID 19 - Impact on Production

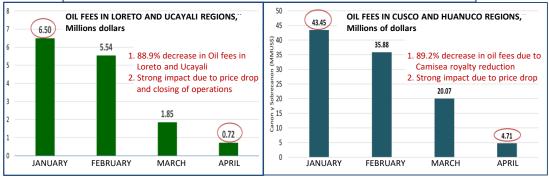






Impact on Royalties and Canon





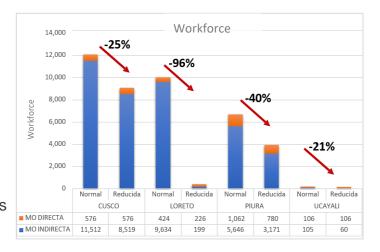




Impact on companies and jobs

OPERATORS AND SUBCONTRACTORS

- Running at a loss
- · Loss of Liquidity
- Payment chain in trouble
- 10,000 Layoffs
- Increased Costs for preventive measures



Oil and Gas Production Capacity is being lost
IT IS REQUIRED TO COMPLETELY RECONFIGURE THE SECTOR





Participation in international webinars

- La Jolla Energy Virtual Conference
- Global E&P Summit









Participation in national webinars







Seferino Yesquén Presidente Perupetro EXPOSITOR



Gonzalo Tamayo Representante de la Academia



Francisco Pezo Gobernador Regional Ucayali



Juan Carlos del Áquila Ex Congresista Fuerza Popular



Alburaueaue Gerente de Responsabilidad Social Aquaytía Energy (Kallpa)



Alejandra Acosta Periodista





Challenges and Proposals Facing the New Normal





REDUCE THE UNCERTAINTY GENERATED BY COVID 19

- Guarantee that the Productive Capacity of oil and gas is not destroyed.
- Guarantee profitability and efficiency of companies.
- Ensure that industry income generates sustainable development.
- Reopen jungle production
- Define the role of PETROPERU in the solution.

COMPETITIVENESS AND GAPS CLOSURE





Motivating Goals

Oil & Gas needed to reactivate the economy.

GDP 2%, 98% doesn't work without fuel, without gas.

- 1. Stop being an oil importer, increase the use of gas. **Macroeconomic objective of the state**
- 2. Relief measures for companies
- Structural measures for:
 - Guarantee the continuity of productive capacity.
 - Guarantee that the funds generated by the industry produce substantial improvements in the CCNN, Society.

STATE

COMPANIES - CCNN - ASSOCIATIONS - ACADEMY





Prepare the Industry - Post Pandemic

State Intervention - Relief Measures

- 1. Deferred payment of royalties for 90 days.
- 2. Change of the Royalty Bylaws.
- 3. Postponement of Investments, Exploration & Exploitation commitments.
- Change of the Companies Qualification Bylaws.
- 5. Contracts next to expire.

Structural measures to configure the sector in an integrated way

UPSTREAM & DOWNSTREAM
PERUPETRO - VMH - PETROPERU





Sector Reconfiguration

Modern Public Policy

COMPETITIVENESS AND GAPS CLOSURE

- ☐ Reform of the Organic Law of Hydrocarbons.
- Law declaring the oil industry of national interest
- ☐ Oil fees homologation law and new distribution in regions. Oil Fees Accountability.
- ☐ Law declaring the ONP as an strategic asset of the State
- Execution of the Gap Closure Plan
- Execution of Remediation.





Oil & Gas Building a Different Future

The best scenario to build:

PERU a developing country at 2050, investment hub.

Civil society building transversal consensus based on greater respect and trust.

Stop being an oil importer.

Oil revenues support sustainable development











ACTION PLAN FOR CONTRACTING AREAS CLOSE TO EXPIRE









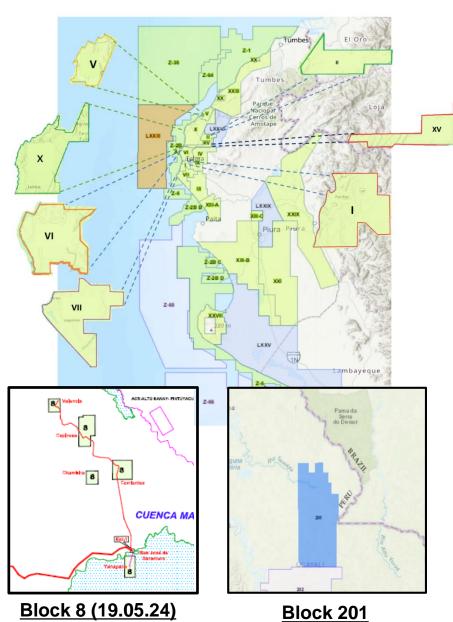
BACKGROUND

- At the end of 1994, PERUPETRO managed 21 contracts (10 for exploitation and 11 for exploration), 56 wells were drilled (52 development wells and 4 exploratory wells). 12,665 wells nationwide (3,609 active wells and average production of 127.4 MBPD) (35.3 Bls / well).
- At the end of 2019, PERUPETRO has been managing 39 contracts (13 for exploitation and 26 for exploration), 193 wells were drilled (187 development wells and 6 exploratory and confirmatory wells). total wells 15,712 wells nationwide (6184 active wells and average production: 52.98 MBPD) (8.5Bls / well).





Upcoming Blocks to Expire (Northwest-Selva)



- Seven (7) Contracts will expire within <u>2021 and 2028</u>.
- PERUPETRO S.A. is preparing a bidding process to award thirty (30) years period License Contracts, in an <u>Ordinary Selection Process</u> (Process with greater transparency).
- The proposed areas will be tendered in two (02) packages, considering as priority order the expiration date of the Contracts

N°	COMPANY	вьоск	DATE FINISHED	Time (1) Remaining (years)	AREA (ha)
1.	GMP		24.12.2021	1.60	6,943.250
2.	GMP	V	05.10.2023	3.41	9,026.032
3.	SAPET	VI_VII	21.10.2023	3.45	32,434.113
4.	SAVIA	Z-2B	15.11.2023	3.52	130,315.659
5.	CNPC	X	19.05.2024	4.04	46,952.342
6.	PETROMONT	II	04.01.2026	5.69	7,691.420
7. OLYMPIC	OL VMDIC	XIII	A: 03.11.2026	6.53	32,573.720
	XIII	B y C: 03.11.2036	16.48	230,784.125	
8.	PETROMONT	XV	25.05.2028	8.03	9,498.904
9.	BPZ	Z-1	28.01.2032	11.71	224,375.850
10.	SAVIA	Z-6	19.03.2032	11.85	528,116.614
11.	PETROMONT	XX	18.01.2036	15.69	6,124.207
12.	GMP	III	04.04.2045	24.9	35,799.305
13.	GMP	IV	04.04.2045	24.9	29,521.990
14.	UNIPETRO	IX	16.06.2045	25.1	2,754.133

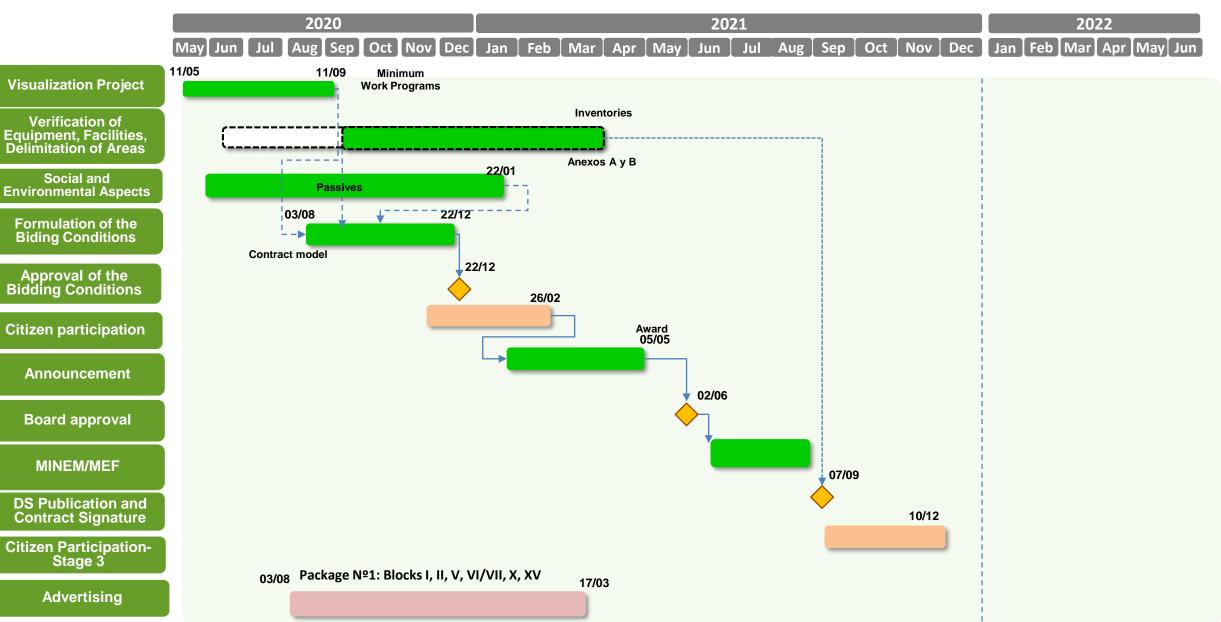
@ 27.05.20



PACKAGE N° 1

Contracting Action Plan Schedule

(Blocks close to expire)

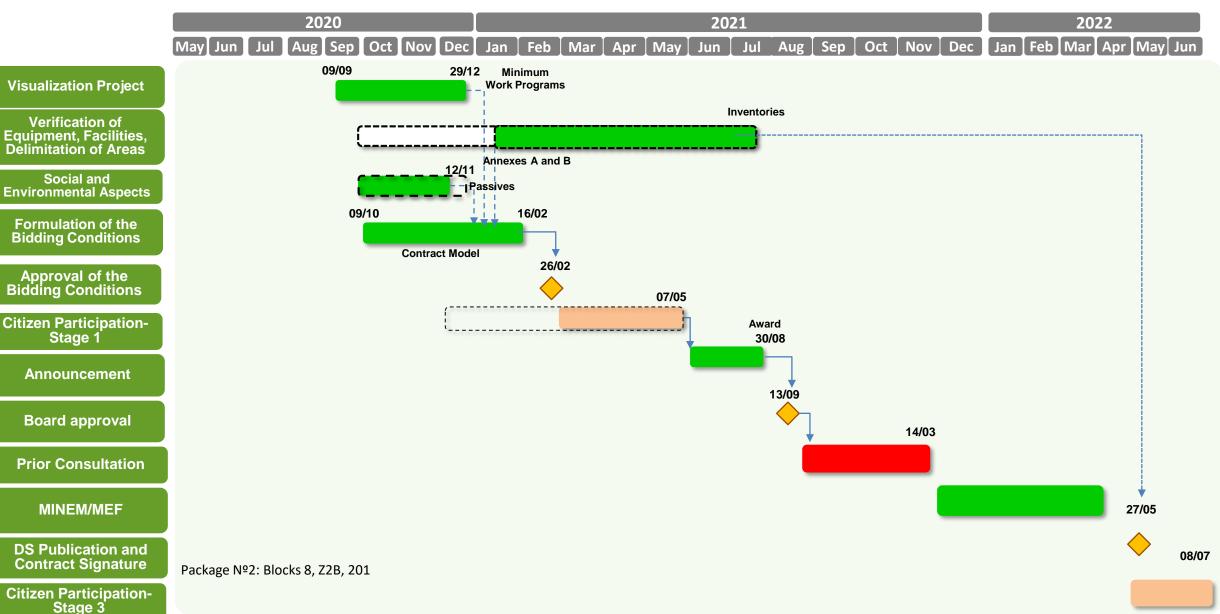


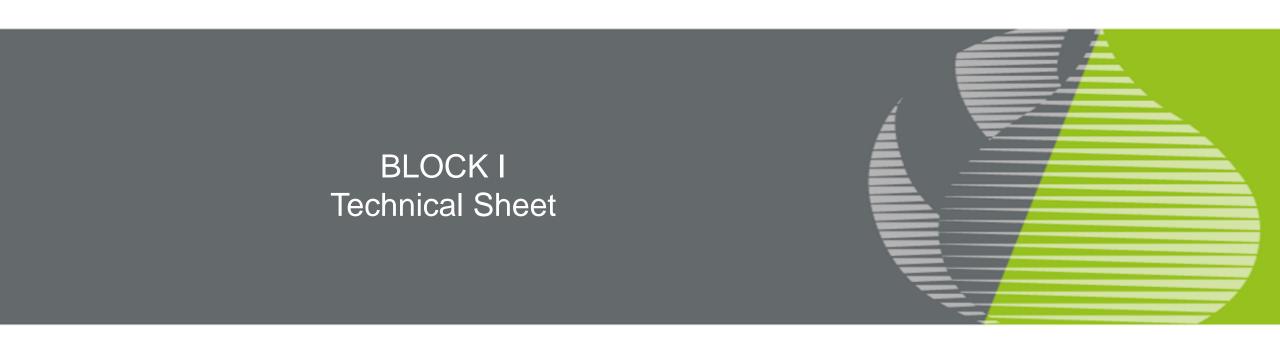


Stage 1

Contracting Action Plan Schedule

(Blocks close to expire)





RESERVES EVALUATION GROUP





GENERAL INFORMATION – BLOCK I

Reservoir Characteristics

General Information

Location Prov. Talara Dpto. Piura

Fields 18

Start Exploitation 24-april-1992

Max. Production(Mbopd) 21.144 (August - 1936)

Area (ha) 6,943.250

Drilled Wells 775
Producing Wells 218

Contractual Situation

Current Operator GMP S.A.

Type of Contract Oil services

Subscription date 27.12.1991

Termination date 24.12.2021

Development Costs

1.23 MMUS\$
(150.2 US\$/ft)

Exploratory

Opex

Royalty

Transp. tariff

1.23 MMUS\$
(150.2 US\$/ft)

2.41 MMUS\$
(247.4 US\$/ft)

- \$/bl

0.01 \$/bl

Push type

Formation

_

N ° of Workers to 31.12.2018

62

Production				
	Oil (Mbpd)	0.642		
Current – April 2019 Gas (MMpcd) 5.545				
Accumulated	Oil (MMbls)	112.62		
30.04.2019	Gas (MMMpc)	167.05		
Recovery Factor	Oil (%)	13.70		

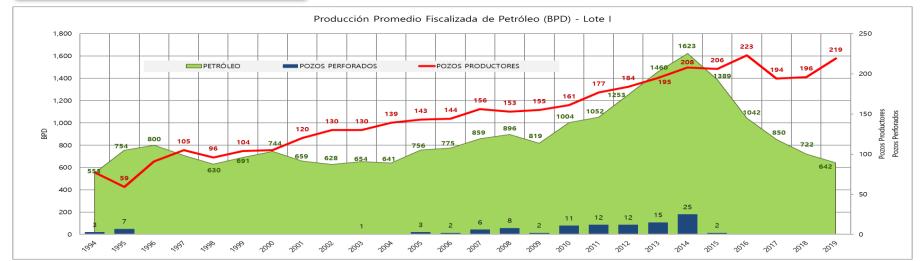
Fluids Type Oil Dens. (°API) 35.79° GOR (scf/stb) 880 Boi (bl/stb) 1.25 Salt (PTB) 8.34

Pariñas, Ancha, Basal Salina,

Mogollón and Mesa

Gas in Solution

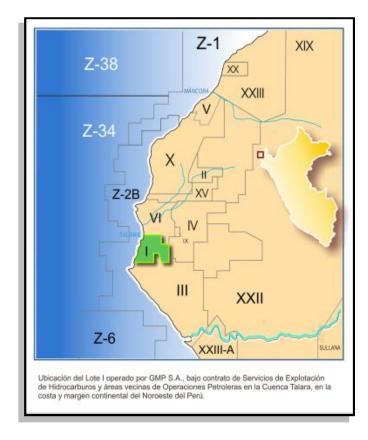
Rock	Rock			
Туре	Sandstones			
Net thickness(ft)	305			
Porosity (%)	7– 19			



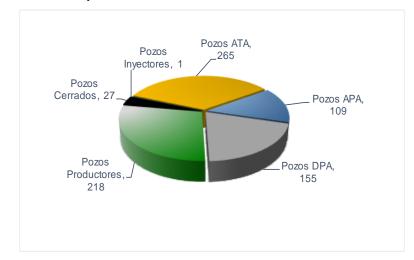




WELLS AND FACILITIES INVENTORY - BLOCK I



Well inventory:



Facilities:



Close toTalara refinery



Normal navigability



Interconnected pipelines



Direct access to roads



Nearby Electrical Network



Direct access to airport



Nearby communities: Talara



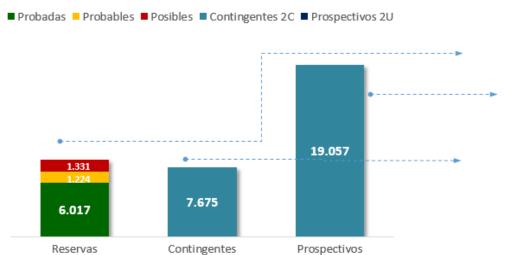
Neighboring blocks: VI, IV, III and X





BLOCKS I RESERVES AND RESERVES MANAGEMENT INDICATORS

Reserves (MMSTB):



Rehabilitation, reconditioning projects.

Mesa prospects, in the southern area of the Block, close to Block VI.

It has 30 well locations for contingent resources to be developed

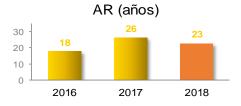
Reserve Management Indicators

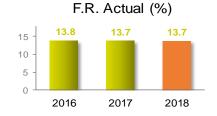
Notice: Excepting 2018, the values of the Reserves for years 2016 and 2017 correspond to the Contractor's annual resource book.













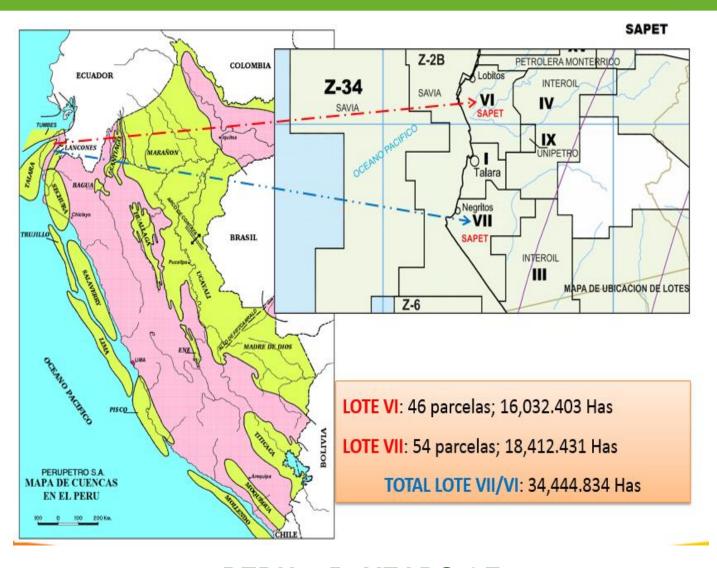


RESERVES EVALUATION GROUP





Location Map – Block VII / VI

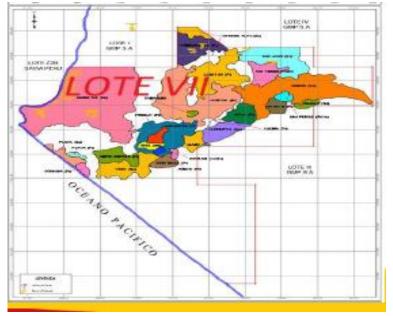


PERU: 156 YEARS OF PRODUCTIVE HISTORY





Location – Block VII / VI



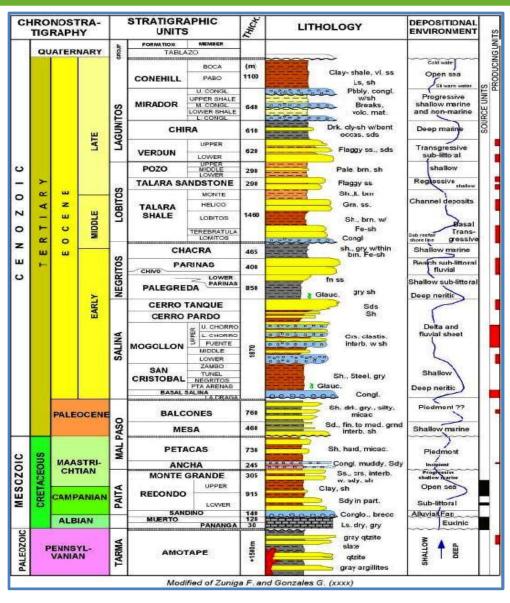


SAPET DEVELOPMENT PERU INC
VII/ VI
TALARA, PIURA-PERU
32,434.113 ha
14,021.682 ha
18,412.431 ha
100%
CHINA
LICENSE
22-Oct-93
24/07/2015
21/10/2023





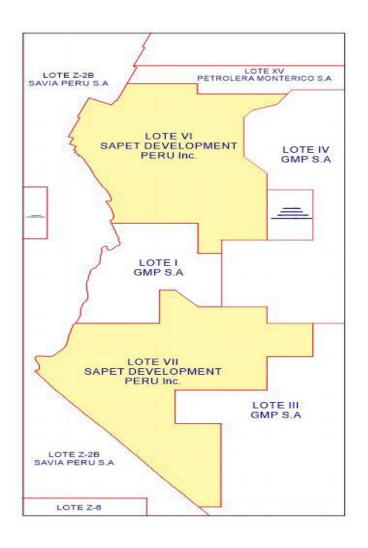
Talara Basin - Stratigraphic Column - Block VII / VI



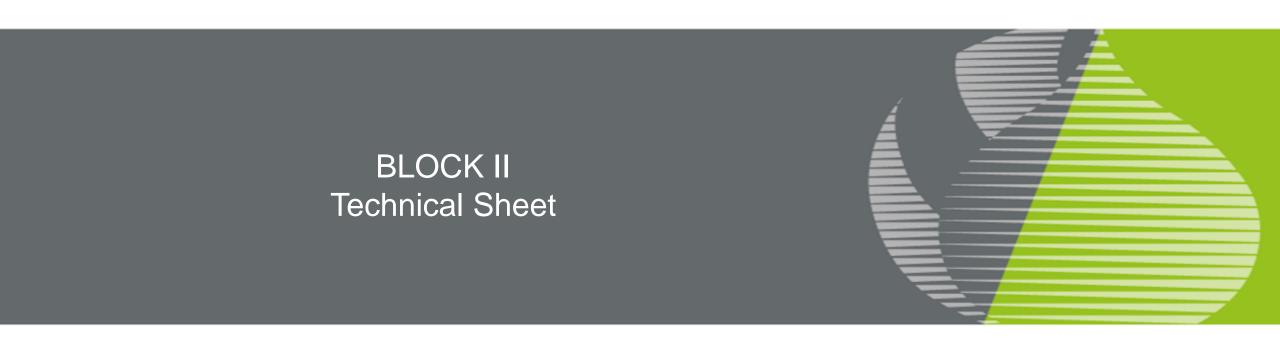


General Information - Block VII / VI

GENERAL INFORMATION	
Operator SAPET DEVELOPMENT PERU INC. SUCURSAL DEL PERÚ	
Type of contract License	
Location	12 km north of the city of Talara
Fields	55
Area (ha)	34,444.834 ha
Drilled Wells	3,427
Main Reservoirs	Talara, Terebratula, Hélico, Pariñas, Mogollon, Basal Salina, Arenas La Draga.
% API Gas Condensate	36 °API
Producing Wells	1,173
Acquired seismic	PPGSI7476L31L35 – 520.44 KM – PETROPERU
Accumulated Oil Production	385.7 MMSTB
Accumulated Gas Production	379.33 10° SCF
OOIP	1,757 MMSTB
% Current Water	63.7 %
Current Recovery Factor	9.4 %
Monthly decline (%)	0.8%







RESERVES EVALUATION GROUP







General Information

Location	Prov. Talara Region Piura
Fields	3
Discovery	1953 / Helico y Ostrea
Start Exploitation	-
Max. Production (bopd)	-
Area (ha)	7707
Drilled Wells	271
Producing Wells	218
Acquired seismic	-
Average depth (ft)	- -
Monthly decline (%)	5
OOIP (MMBBL)	-

	Contract Status
Current Operator	Petrolera Monterrico S.A.
Type of contract	License

04.01.2026

Effective Date 05.01.1996

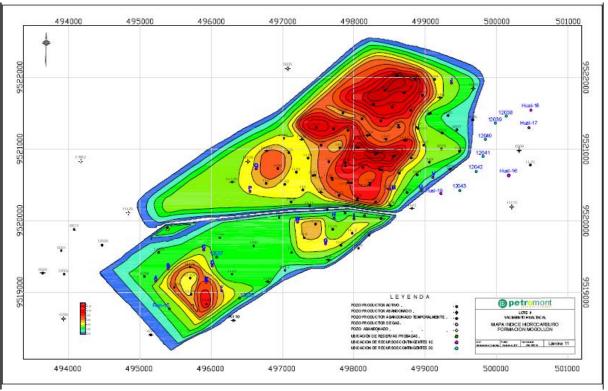
Termination Date(*)

Mogollón R. Rock

Туре	Sandstones, conglomerates
Net Thickness (ft)	250
Poroslity (%)	0.05
Permeability	0.10mD

Reservoir Characteristics Mogollón, Ostrea, Helico, Talara, Verdun. Push type Gas in Solution and Gravitational Segregation Initial pressure (psi) Current pressure (psi) -

Production		
	Oil (Bpd)	219
Current - December 2018	Gas (Mpcd)	1,711
	Water (bpd)	-
Accumulated	Oil (Mbls)	27,206
31.12.18	Gas (MMpc)	42,402
Recovery Factor	Oil (%)	6.5
	Gas (%)	-





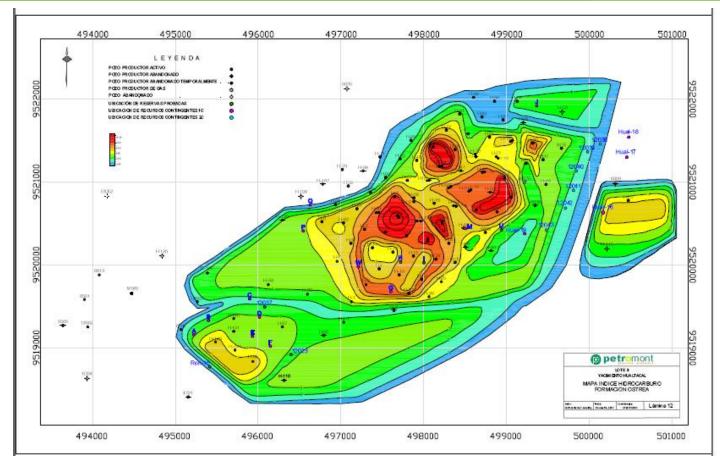




Rock R. Ostrea

Туре	Sandstones
Net Thickness (ft)	100
Porosity (%)	0.12
Permeability	3mD

Fluids	
Туре	Oil
Dens. (°API)	36°
Visc. (Cp)	-
GOR (scf/stb)	2610
WOR (stb/stb)	-
Boi (bl/stb)	1.28
Salinity (ppm)	-
	-



Verdun R. Rock

Туре	Conglomerates
Net Thickness (ft)	80
Poroslity (%)	0.14
Permeability	3mD

Development costs		
Development wells	-	
Exploratory Well	-	
Opex	23 \$/bl	

Helico R. Rock

Туре	Sandstones, conglomerates
Net Thickness (ft)	175
Poroslity (%)	0.10
Permeability	0.4mD

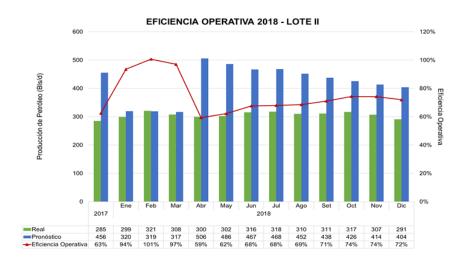






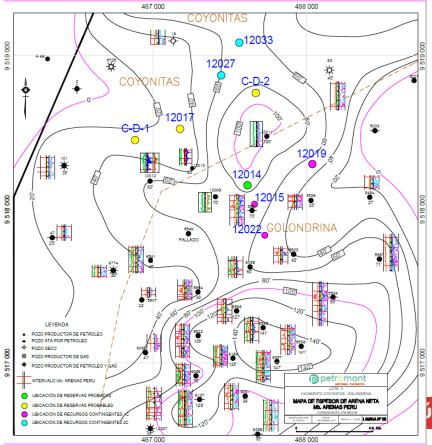
Production - Oil (Barrels per Day)





Talara R. Rock

Туре	Sandstones
Net Thickness (ft)	50
Poroslity (%)	0.08
Permeability	1mD







Block II

Location Map







RESERVATIONS EVALUATION GROUP







General Information		
Location	Prov. Talara Region Piura	
Fields	5	
Discovery	1953 / Verdun-Talara	
Start Exploitation	1953	
Max. Production (bopd)	1,000 (60's)	
Area (ha)	9,000	
Drilled Wells	95	
Producing Wells	30	
Acquired seismic	PETROPERU / MAPLE (2D – 77 Km)	
Average depth (ft)	-	
Monthly decline (%)	5	
OOIP (MMBBL)	-	

General Information		
ocation	Prov. Talara Region Piura	
elds	5	
iscovery	1953 / Verdun-Talara	
tart Exploitation	1953	
lax. Production (bopd)	1,000 (60's)	
rea (ha)	9,000	
rilled Wells	95	
roducing Wells	30	
cquired seismic	PETROPERU / MAPLE (2D – 77 Km)	
verage depth (ft)	-	
Ionthly decline (%)	5	
OIP (MMBBL)	-	

Verdun r. Rock		Ostrea R. Rock	
Туре	Sands / Conglome rates	Туре	Sands / Sandstones / Shales
Net Thickness (ft)	30	Net Thickness (ft)	85
Poroslity (%)	8	Poroslity (%) Permeability	10 0.488
Permeability	0.214mD		mD

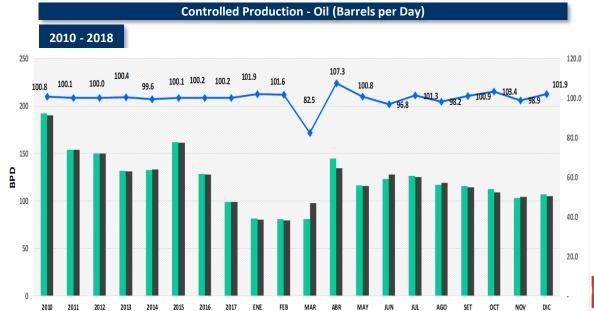
Contract Status		
Current Operator	Graña y Montero Petrolera S.A.	
Type of Contract	Oil Service	
Subscription Date	08 Oct 1993	
Termination date(*)	05 Oct 2023	

Reservoir Characteristics			
Mogollón, Ostrea, Echino, Verdún, Formation Talara			
Push type	Gas in solution		
Initial pressure (psi)	3152 Mogollon		
Actual pressure (psi)	2505		

Mogollon R. Rock		Fluids		
Гуре	Sands / Conglome		Type Dens. (°API)	Oil 36.4°
Net Thickness (ft)	rates		Visc. (Cp) GOR (scf/stb) WOR (stb/stb)	517
Poroslity (%)	7		Boi (bl/stb)	1.2
Permeability	0.509 mD		Salinity (ppm)	-

Production			
	Oil (Mbpd)	100	
Current - December 2018	Gas (Mpcd)	266	
2010	Water (Mbpd)	-	
Accumulated	Oil (MMbls)	5,593	
31.12.17	Gas (MMMpc)	9287	
Recovery Factor	Oil (%)	8.7	
Recovery Factor	Gas (%)	0.00	

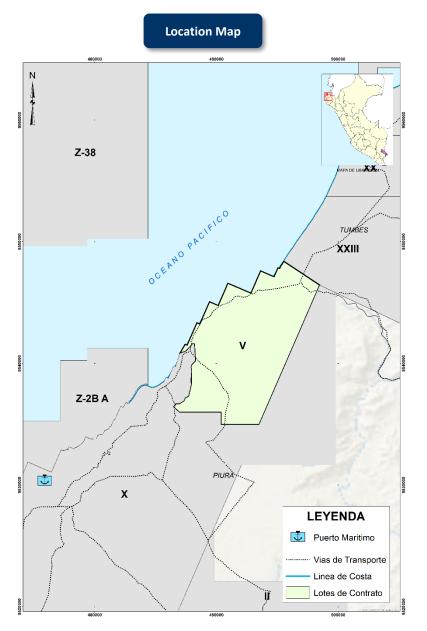
Development Costs		
Development wells	-	
Exploratory Well	-	
Opex	18.8 \$/bl	

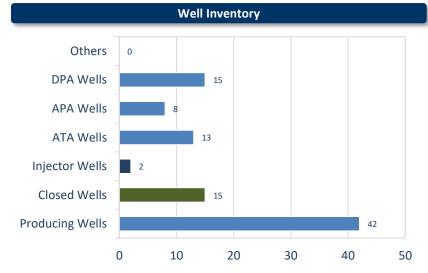












Facilities

Close

Close to the Talara refinery.



Access to nearby port



Nearby Pipeline



Direct access
To roads



Nearby Electrical Network



Direct access
To the airport



Nearby peasant communities



Surrounding lots: X, XX and XIII.











FUNCTIONAL GROUP EVALUATION OF RESERVATIONS







General Information

Location Prov. Talara – El Alto / Los Órganos Dpto. Piura
Fields 17

December 1910 / EA1 - Reventones

Start Exploitation December - 1910

Max. Production (bopd) 3236.9 (August - 1965)

Area (ha) 46,952.342

Drilled Wells 5593

Producing Wells 3152

Discovery

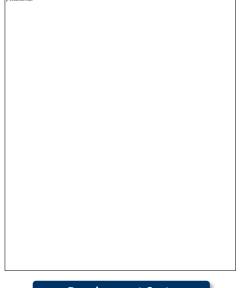
Acquired seismic PEREZ COMPANC 99'-00'
176 km2

Average depth (ft) 4843

Monthly decline (%) 2.41

Production per Well 4 STB/Pozo

Contractual Situation Current Operator CNPC PERÚ S.A. Type of Contract License Subscription Date 20.05.1994 End date(*) 19.05.2024



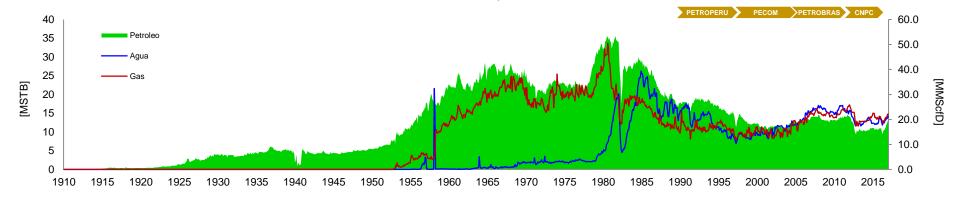
Development Costs		
Development	0.6 MMUS\$	
wells	(125 US\$/ft)	
Exploratory Well	4.5 MMUS\$	
Opex	24 \$/bl	

Reservoir Characteristics		
Formation	San Cristobal, Basal Salina, Amotape, Mogollón, Ostrea, Echino, Lutitas Talara, Verdún	
Push type	Gas in Solution	
Initial pressure (psi)	1563	
Actual pressure (psi)	852	

Fluids		Rock	
Туре	Black Oil		
Dens. (°API)	36°	Туре	Areniscas
Visc. (Cp)	1.2	Net Thickness (ft)	130-600
GOR (scf/stb)	1600.2	` ,	
WOR (stb/stb)	1.17	Poroslity (%)	9
Boi (bl/stb)	1.16	Permeability	0.1-1 md
Salinity (ppm)	35,000		

Production			
Current - December 2019	Oil (MSTBD)	13.2	
Current - December 2018	Gas (MMScfD)	15.73	
Acumulated 31.12.18	Oil (MMSTBD) Gas (BCF)	494.72 510.75	
Recovery Factor	Oil (%)	8.22	

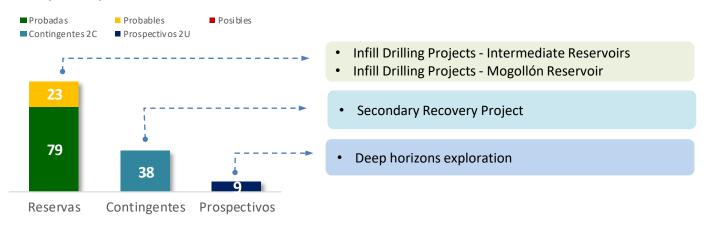




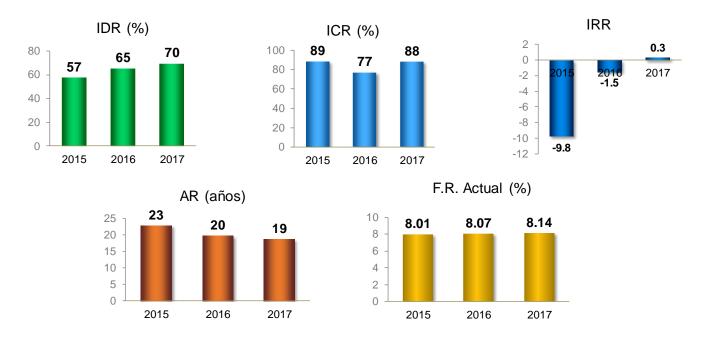




Reserves (MMSTB):



Indicators:

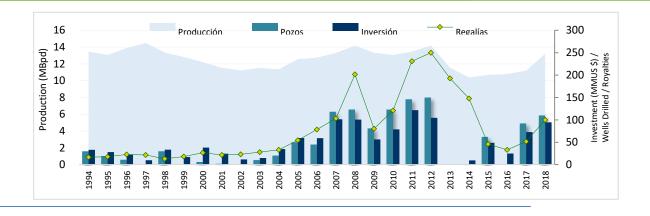








Period	Capex (MM\$)	Opex (MM\$)	Royalties (MM\$)
2018	94	145	103
1994-2018	1,188	641	2,001



Plans and Programs 2019-2023:



U Exploratory Well



60Development Wells



160 Workover



1.7
Millions of barrels to develop



119
Millions of dollars
CAPEX



536Millions of dollars OPEX

