YPF | Vaca Muerta "Shale oil"

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The information contained herein has been prepared to assist interested parties in making their own evaluations of YPF.

YPF | YPF: Leading Energy Company in Argentina

YPF

Sales ⁽¹⁾ US\$ 11,107 MM

EBITDA ⁽¹⁾ US\$ 3,799 MM

Net Income⁽¹⁾ US\$ 1,456 MM



(7) As of 31/10/11

- (8) Eton Park have a call option for 1.63% of Repsol's shares
- (9) Argentine Government has Class A shares and Provinces have Class B shares

Exploration and Production

- Leadership in Hydrocarbons Production
- Production⁽²⁾⁽³⁾: 107 MMbbl of Liquids and 88 MMboe of Natural Gas
- 2010 Proved Reserves⁽³⁾: 531 MMbbl of Liquids and 451 MMboe of Natural Gas

Downstream – Refining and Logistics

- Leadership in Refining
- Refining Capacity: 333 Mbbl/d⁽⁴⁾⁽⁵⁾ (more than 50%⁽⁵⁾ of Argentina's total capacity)
- High level of conversion and complexity
- More than 2,700 km⁽⁵⁾ of oil pipelines and 1,801 km⁽⁵⁾ of pipelines

Downstream - Chemistry

- Integrated petrochemical business with the rest of the productive sectors (E&P, refining and natural gas)
- Production Capacity: 2.2⁽⁵⁾ million tons per year

Marketing

- Leader in the marketing of fuels (57%⁽⁵⁾ of the market share in diesel and gasoline)
- 1,622⁽⁵⁾⁽⁶⁾ Service Stations

Major Affiliates

- _ MEGA: Liquid Separation Plant
- Pluspetrol Energy: Exploration and Production
- and Electricity Generation
- _ Refinor: Refining, Transportation and Marketing of Refined Products
- Profertil: Leader in the Production of Fertilizers, Urea and Ammonia
- AESA: Engineering, Manufacturing, Construction, Operation and Maintenance Services, oriented to energy sector

- Statements of YPF alued according to accounting standards Argentinas converted to dollars at the exchange rate of the end of the year
- (2) Includes crude oil, condensates and liquids, including Pluspetrol and USA
- (3) 20F 2010; excludes investments in companies by the equity method, converted using 1 boe = 5.615 Mcf of gas. Source: 20-F 2010
- (4) Includes 50% of Refinor (13 Mbbl/d)
- (5) 20F 2010
- (6) Excludes 35 Refinor Service Stations

YPF Shale in the USA: Impact on Gas Supply

The development of Shale Gas resources in the USA has totally changed the energy balance and largely eliminated the need to import LNG.

23% of US gas production currently comes from Shale Gas.



YPF Shale in the USA: Impact on Oil Production

EIA, TODAY IN ENERGY, APR 27, 2011

"...While much of the increase in 2009 was associated with deepwater developments in the Federal Gulf of Mexico, the increase in 2010 was led by escalating horizontal drilling programs in U.S. shale plays, notably the North Dakota section of the Bakken formation."

"Domestic Oil Production Reversed Decades-Long Decline in 2009 and 2010."



Source: U.S. Energy information administration

Source: HPDI, LLC

YPF Could Argentina replicate U.S. experience?

EVOLUTION OF THE OIL AND THE NATURAL GAS IN U.S. AND ARGENTINA



U.S. and Argentina's natural gas production



Source: Wood Mackenzie / SEN Argentina

YPF Shale gas: Worldwide Resources

MAIN SHALE GAS BASINS



- The EIA report (April 2011, "World Shale Gas Resources") estimated Argentina as having the third largest resource base (The study excluded the Middle East, Russia, SubSaharan Africa))
- Conventional and unconventional resources are estimated as being roughly equivalent (6,622 vs. 6,609Tcf) (study excluded the Middle East, Russia, SubSaharan Africa)

Source: EIA

YPF | Shale oil Plays in the World

PROJECTS AND RECOVERABLE RESOURCES



US companies with proven track record.

France

The Paris Basin should have recoverable shale resources of 4 Bbbl, projects on hold due to environmental issue.

Canada

Main effort centered on Shale gas with potential for LNG export. Shale Oil less important for the moment.

YPF | YPF Activity in Vaca Muerta: History of a discovery

Evaluation of Shale reservoir potential and regional studies		Drill first well	II first well 2nd. Licensing Round		1
		First shale gas well does not reach target_completed	1º discovery of shale gas with drilling of	and Loma Campana	
		as discovery well in shallow reservoir	LLLK-x1. July 2010	Oil. Bajada de Añelo	
		Definition of Shale Oil Pilot Project	1º discovery of shale oil with completion of LLL-479. November 2010	Drill first horizontal well	
			3º Licensing Round	Explore and appraise Rest of Basin	
			Partnered with Exxon / EOG / Total /Apache	Pilot Development in North Loma La Lata	•
2007	2008	2009	2010	2011	▶
Source: YPF					9

YPF | Vaca Muerta Shale







- Extention of 30,000 km²
- Thickness greater than 250 m.
- Evidence of light oil, wet and dry gas
- Overpressure gradient from 0.67 to 0.97 psi/ft
- Additional conventional opportunities



Soil.x-1

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LGus.x-1

Source: YPF



YPF The YPF Position - Vaca Muerta Play



- Vaca Muerta is present in an area of 30.000 Km² (7.4 million acres).
- Of this area, YPF participates in 12.000 Km² (3.0 million acres - 40% of the total).
- 9,311 km² oil
- 670 km² wet gas
- 2019 km² dry gas

YPF Comparative Shale in acres

PLAYS WITH PROVEN POTENTIAL IN U.S. AND ARGENTINA. ACREAGE DECLARED BY MAIN COMPANIES





Source: Wood Mackenzie NAGS

YPF | YPF Discovery of Shale Oil Northern Loma La Lata



YPF | YPF Discovery of Shale Oil Northern Loma La Lata

Results by the end of September



- 15 wells producing (14 new wells, 1 Workover)
- The wells were drilled in the Loma de la Lata, Loma Campana and Bajada de Añelo Blocks
- Initial choked vertical well rates range between 200 and 600 bopd

YPF Evolution in fracture productivity as of october 2011

PRELIMINARY RESULTS VACA MUERTA



YPF Vaca Muerta Analogues. Eagle Ford and Bakken Shale productivity (*)

COMPARISON WITH VACA MUERTA



(*) Wood Mackenzie

YPF Evolution in well head pressure producing under natural flow condition



Days

18

YPF Vaca Muerta - The complete 200m section is productive

RESULTS OF PLTS



YPF Vaca Muerta: high quality oil and gas

OIL AND GAS PROPERTIES





Characteristics

- Pres. = 550 650 kg /cm² at 2.800 m
- °API: 40 45
- Pb: 120-200 Kg/cm²
- GOR: 100-500 m³/m³
- Bo @ Pb: 1,5 1,7
- Viscosity @ Pb: 0,3 0,8 cP
- No H2S, Minor CO₂

Plant produ	ucts – Gas	
	m³/mm³	bbl/mcft
C2	45,25	79,29
C3	366,07	65,19
C4	199,58	35,54
C5	64,92	11,56
C6	16,79	2,99
C7+	11,63	2,07
C5+	93,34	16,62

YPF | Prior production - naturally flowing well >700,000 stbo in 25 years

UNFRACTURED WELL IN VACA MUERTA



Source: IAPG

YPF | The comparison with Shale Plays in the USA shows Vaca Muerta to have very good properties

Metres	Vaca Muerta	Barnett	Hayr	nesville	Marcellu	is Ea	gle Ford	Bakker 3-5 Mstb/k) Km²
0 —			- Alter	Ž					
25 –			A MAN						
50 -			Sun Law						
75 –			A CANA	V					
100									
100				Vaca Muerta	Barnett	Haynesville	Marcellus	Eagle Ford (*)	Bakken
		TOC (%)		6	5	2	12	4	12
125 –		Thickness (mts)		200	91	76	61	61	30
		Depth(mts)		3.000	2.286	3.658	2.057	2.287	1.829
		Area (Km ²)		30.000	16.726	23.310	245.773	5.180	51.800
150 –		Reservoir pressure	e (psi)	8.000	3.525	10.800	3.375	4.502	4.200
		Pressure gradient	(psi/ft)	0,65 - 1,0	0,47	0,90	0,50	0.60	0,70
175 -		STOOIP (Mbbl)		?	-	-	-	114.000	200.000
175		STOOIP/Km2 (Mbb	ol/km²)	33 - 58	-	-	-	22,0	3,9
		OGIP (Bcf)		-	422.337	717.016	1.499,215	-	-
200		OGIP/Km2 (Bcf/km	1 ²)	-	25,3	30,8	6,1	-	-

Vaca Muerta: High Quality Crude in over pressured conditions, and with high thickness

(*) oil window

YPF | Resources – 930km² (428km² + 502km²)



	Gross	ross			Net			
	Surface (km2)	Oil (Mbbls)	Gas (BCF)	BOE (Mboe)	Surface (km2)	Oil (Mbbls)	Gas (BCF)	BOE (Mboe)
Loma La Lata Norte + Loma Campana	428	741	1040	927	428	741	1040	927

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YPF Further exploration activity 2011-2012 will reveal the true Vaca Muerta potential



Exploration plan



The discovery of shale oil & gas in the USA has started a new cycle in the oil & gas industry and is changing the scenario for exploration activity in many countries throughout the world.

In Argentina, the discovery of Vaca Muerta shale and the data from the 15 vertical wells on production indicate that this shale has better properties than the principal productive shales in the USA.

The results obtained to date confirm independent reports, which present Argentina as having great potential for shale Oil and gas and should allow Argentina to successfully repeat US Shale Gas and Oil experience. In Argentina, YPF is pioneer in unconventional oil exploration and development with the discovery of the Vaca Muerta Shale Oil Play

Results to date show the potential for high quality crude oil resource development in an area of 428 km² (105,000 acres) in Loma Campana and the North of Loma La Lata Blocks.

Based upon exploration activity undertaken by YPF, its partners and other companies in the Neuquen basin, the true potential of the Vaca Muerta Shale Oil & Gas Plays should be revealed within the next 18 months.



YPF | Vaca Muerta "Shale oil"