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Assets technical description





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Golfo San Jorge Basin - General Facts

- The Golfo San Jorge Basin is located in central Patagonia, between coordinates 44° -47° S and 66° - 71° W
- It is the most productive basin in Argentina
- With an approx. **170,000 km² of surface**, two third belongs to on-shore area
 - Cumulative Production: More than 3,8 B barrels of oil and 2.6 tcf of gas
 - Current Production : 280.000 bbls/d
 - Reserves: It holds Argentina's 50% of total oil reserves and 10% of total gas deposits. Ranks as 2nd after Neuquén Basin, accounting about 1,6 B barrels of oil (9.3M m³) and 1.6 tcf of gas (3.3MM m³)
 - Up to now, more than 26,000 wells have been drilled throughout the basin







Oeste

Golfo San Jorge Bain - Stratigraphic Column

TIME (Ma)	ERA	PERIOD	-	EPOCH		AGE	LITHOLOGY	SOUTH	UNITS NORTH	WEST		/IEGA- QUENCE	EVENT	DEPOSITIONAL ENVIRONMENT Generalized Lithology	MAX. THICK. (m)	нс	
1.6 —		QUAT	· I	EISTOCEN				Roda	ados Patago elche Shing		σ	IV		GLACIO-FLUVIAL Conglomerates, pebble to boulder size, polymictic.	40		
5.3 -	12	OGENE		PLIOCENE MIOCENE	\neg		505	S	anta Cruz F	m.				FLUVIAL-DELTAIC Sandstones & shales. Basalts.	200		
23.7 -	10Z	ARY	+					P	atagonia Fn	n.]≿			SHALLOW-MARINE Sandstones & shales, very fossiliferous.	280		
36.6 —	Ĭ		EOCENE		\neg			Sarmiento Fm. Rio Chico Fm.		TERTIARY	III		FLUVIAL-LACUSTRINE Tuffs, SS, conglomerates, shales. Mammal fossils. Basalt	s. 120			
57.8 -		H EC											FLUMAL-DELTAIC Volcanics, SS, congl. & sh. Mammal, reptile & plant fossil:	250			
66.4 -				ALEOCENE				Salamar Glaucon		/				SHALLOW MARINE-DELTAIC-FLUVIAL SS, shales & conglomerates. Transgressive glauconitic SS	2000	•	
						MAASTRICHTIAN				Laguna Palacios Fm.		II	LATE SAG	DELTAIC Coarsening and thickening upwards sequence of		•	
74.5 - 84 -					NIAN	CAMPANIAN	-1-7-7-8-1-8 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Meseta Espinosa	Yac. El Trebol	ar Mb.				prograding sandstones and shales. FLUVIAL-LACUSTRINE Thin sandstones interbedded with thick lacustrine shales, minor tuffaceous material present.			
				÷	SENO	SANTONIAN		Fm.	Fm.	Bajo	CHUBUTIAN Uppe						
87.5 —	1	sno		UPPER	Ĩ	CONIACIAN	5555	-						ALLUVIAL-FLUVIAL-LACUSTRINE Stacked sequence of SS and shales interbedded with minor volcaniclastic material. Sands deposited in an alluvial fan, braided and meandering fluvial environment prograding into a lacustrine basin.			conventional hydrocarbon formations
88.5 —	1	CRETACEOU		-		TURONIAN		Cañadón Seco	Comodoro						4000+		
91 — 97.5 —	1	CRE'				CENOMANIAN		Fm.	Fm.								
	ZOIC					ALBIAN			Mina El Casti Carmen Fm. Fm					FLUVIAL - LACUSTRINE Predominantly tuffaceous shales with interbedded thin sandstones in the basin center. Congiomerates are present in proximal areas to the north.		•	
113 —	ESO ESO			OWER	ſ	APTIAN		8	Pozo D-129 Fm. Mata				EARLY SAG	FLUVIAL-LACUSTRINE Dark grey tuffaceous shales and sandstones that become predominant towards the basin margin. Oolitic limestones are common towards the top of the section.	45001	P	ר <u>ו</u>
119 —	١			_ ≥_	BARREMIAN HAUTERIVIAN OU UALANGINIAN BERRIASIAN	BARREMIAN		Los Alazanes Mb.		> Fm.					1500+	R	
124 —	1					HAUTERIVIAN	-147			Z			LACUSTRINE-FLUVIAL Predominantly black shales interbedded with thin SS	\$ 560	`	- unconventional formations	
131 —							Pozo		Cerro Guadal Fm.		т	LATE	that become more prominent toward the basin margin.	ne basin margin.			
138 —						친민원만		Pozo Anticlinal		NEOCOMIAN	1	RIFT	LACUSTRINE (STARVED) Black and dark shales & mudstones interbedded	1700+	R		
144 —	1		+			TITHONIAN			Aguada Bandera Fm.		۳	0	EARLY	with minor thinly bedded sandstones.			
		<u>ں</u>		MALM		KIMMERIDGIAN OXFORDIAN	3 3 3 3 3 4 4 3 3 3 3 4 4 4 3 3 3 4 4 4	Bahía	Lonco	Sedimentar				VOLCANICLASTICS Quartz porphyric-trachyte and interbedded volcanic sandstones, conglomerates and depositional breccia.			
163 —	63 -	SS				CALLOVIAN BATHONIAN	1.1.1.1.1.1. 1.1.1.1.1.1.1	Laura Group	Trapial	Volcanic	s.v.c.				1300+		
187 —		JURASSIC		LIAS		BAJOCIAN			Group	Complex	"						Mata Siete or D-129
187 —	18/	٦ſ				TOARCIAN PLIENSBACHIAN SINEMURIAN HETTANGIAN		Liassic			LIAS	PRE RIFT	SHALLOW MARINE Black shale and tuffs interbedded with thin sandstones at the basin margin.	700+		positively tested by YPF	
208 — 245 —		۲¥				HETTANGIAN								CONTINENTAL Sedimentary pyroclastics, volcanics.	?		
240 -	ΡZ	PERMIA CARBOI EOPALE	VIFER	OUS CUM				Igneo	us & metam Basement					GRANITE & METAMORPHIC ROCKS			



Golfo San Jorge – E&P players in the neighborhood



Golfo San Jorge – open access Oil and Gas infrastructure





Mata Magallanes Oeste – Production History



... already 5.65 MMbbl produced ... still 5 MMbbl to produce



Cañadón Ramirez – Available G&G data

Geoscience data

- 2D seismic lines longitude: 754,99 km
- 3D seismic survey surface: 111,83 km² & 272.17 km²

Wells data

21 wells with gas and oil flows





Cañadón Ramirez – Los Monos Norte Prospect







(19.7 ft)

Cañadón Ramirez – Potential Oil Development





Potential Development in LMS-x1001

Surface:	0.3 km ²	(80 acres)
Net oil pay:	6 m	(19.7 ft)
Porosity:	1	8%
Sw:	5	0%
Bo:	1	,25
OOIP:	138,6 Mm ³	(3.4 MMbbl)
Recovery Factor:	15	i,6%
Oil Reserves:	21,6 Mm ³	(0.6 MMbbl)
Producing Wells		2



Cañadón Ramirez – Potential Oil Project





Potential Development in LMS-x1002

Surface:	1.1 km ²	(276 acres)
Net oil pay:	6 m	(19.7 ft)
Porosity:	18	%
Sw:	50	%
B0:	1,2	25
OOIP:	484,6 Mm ³	(13.8 MMbbl)
Recovery Factor:	15,	6%
Oil Reserves:	75,3 Mm ³	(2.1 MMbbl)
Producing Wells"	5	5



Cañadón Ramirez – Potential Gas Project



INTEROIL

(343 acres)

8 m

18%

30%

0,012

60%

2

(26.2 ft)

(3.3 BCF)

(0.8 MMbbl)



