



SONDAGENS DE ANGOLA



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2/ Background.

Sondagens is a provider of drilling, work-over services that has been active since 2005, although its main staff has worked over 15 countries around the world since 1980. The Company was created in 2005 as an Angolan corporation. Its controlling shareholders and senior management are Angolan and Spanish citizens. Sondagens fields a seasoned team of oil field technicians with over 30 years of experience in all aspects of drilling and work-over operations.

Many of the regions Sondagens's staff has operated are located in areas with scant infrastructure, especially in desert conditions such as in Kuwait, Libya, and Tunisia. Sondagens is experienced in setting up camps, mobilizing equipment and undertaking life support operations in remote locations both inland and offshore.

Most of Sondagens's staff came from Sonpetrol España SA, also a provider of drilling and work-over services around the world (see attached list of Clients and References for Sonpetrol España SA). Francisco Jimenez is the Chief Executive Officer and majority shareholder of Sondagens. Prior to 2005 Mr. Jimenez was the main partner and Chief Executive of Sonpetrol España SA.

Sondagens's staff has successfully executed over 1000 drilling and work-over intervention projects for some of the major oil exploration companies of the world.

3/ History.

In 2005, former workers of Sonpetrol España SA and well experienced Angolan nationals linked to the oil business in Angola decided to start a joint venture company to provide drilling services in Angola under the new law.

After one year providing staff for major operator Total Fina, the company acquired its first work-over rig (SA01) to provide work-over services for Total field in Soyo. In 2007, Total left the field and the new operator (Somoil SA) took over the field keeping Sondagens in charge of the drilling and work-over services until today.

In 2007, Sondagens decided to acquire a 1000 HP brand new drilling rig in Oklahoma, USA, manufacturer Steward & Stevenson (SA02). This rig was sent one year later to Angola to start exploration in a new block (Cabinda South). Since the first commercial discoveries, Sondagens has drilled more than 25 wells in this block with an average depth of 2.500 meters.

In 2008, Sondagens bought from Rocoil a 750 drilling rig (SA03), (manufacturer Franck Cabot) to implement drilling and workover operations in Cabinda South Block.



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From 2009 to 2018, Pluspetrol took over Cabinda South Block to keep the exploration campaign, the same year we discovered the Castanha Field. From 2009-2018 we have been keeping the drilling on in the Cabinda field with great results for the operator.

In 2013, Sonangol awarded a contract to drill 5 wells to Sondagens in order to explore the North Cabinda Block. This operation started in June 2013 and finished in 2014, it was carried out by the new 1000 HP rig (SA04, manufacturer Falcon Rigs, OK, USA).

In a nutshell, Sondagens is a medium Company with technical experts with more than 40 years of experience in the field. The Company staff has worked in 15 countries, some of them with scant infrastructure, undertaking drilling, work-over and geothermic services both inland and offshore, has always obtained the positive appreciation of the operating companies.

Biography of Main Principal – Francisco Jimenez.

MR. FRANCISCO JAVIER JIMÉNEZ RUIZ **Honorary President.**

Mr. Francisco Javier Jiménez Ruiz (Spanish citizen) graduated in Economics in Murcia University (Spain). He has developed his extended professional career as Sondagens' majority shareholder and general manager.

He has developed numerous projects for the oil sector in countries such as Argentina, Venezuela, Angola, Tunisia, Algeria, France, Spain, Nigeria and Portugal.

Formerly, he held the following management positions:

1992 – 2005 SONPETROL ESPAÑA SA (CEO)

1981 – 1992 GRUPO CRIBER (CEO)

1971 – 1981 FINANCIERA MONTHISA (MANAGER)

4/ Past and present work of Sondagens staff:

YEARS	COUNTRY	CLIENTS	DRILLING	WORKOVER	TECHNICAL SUPPORT
2003-2020	ANGOLA	PLUSPETROL SOMOIL ROCOIL TOTAL-FINA			
2001-2002	VENEZUELA	PDVSA			
2000-2001	FRANCE	VERMILION			



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2000	SPAIN	REPSOL			
1999-2000	SPAIN	SOLVAY			
1997-1999	TUNISIA ANGOLA	AGIP PETROFINA			
1996-1998	SPAIN VENEZUELA	MOHAVE PDVSA			
1994-1995	ARGENTINA	YPF TOTAL PLUSPETROL			
1990	SPAIN	DRILLMAR			
1989-1992	NIGERIA	DUBRI AGIP			
1986-1990	SPAIN	HISPANOIL			
1985-1994	SPAIN	REPSOL			
1984	SPAIN	CHEVRON			
1981-1983	SPAIN	REPSOL AMOCO BP ESSO			
1979-1984	ANGOLA MALI CONGO	PETROFINA ELF COASTAL			
1978	SPAIN	REPSOL			
1976-1979	TUNISIA LYBIA FRANCE	TOTAL AGOCO BRGM			
1973-1977	SPAIN	TENNECO CHEVRON CAMPSA AUXINI			
1976	ALGERIA	SONATRACH			
1970-1977	KUWAIT	HISPANOIL KUWAIT OIL			
1964-1970	SPAIN	SPANISH GOVERNMENT			
1961-1964	SPAIN SAHARA	ENPASA PHILIPS FINA TIDEWATER ATLANTIC			



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5/ Rigs owned.

Rig Name	Drilling Depth		Hook Load		Draw work	Power	Mud Pumps	Mud Pump Engine
	m	Feet	mt	Lbs				
SA01	1.000	3.280	110	215.000	350	Detroit Diesel V8 350 HP	Oil Well Triplex	Detroit Diesel V8
SA02	3.500	11.500	180	440.000	1000	2xCAT D3408 515 HP	2 x PZ-9 1000 HP	2 x CAT399
SA03	2.200	7.200	120	265.000	750	2X Detroit Diesel V8 350 HP	2 x F800 800 HP	2 x CAT3508
SA04	3.500	11.500	180	440.000	1000	2x CAT D3408 515 HP	2 x F1000 1000 HP	2 x CAT399
SA05	1350	4050	110	215.000	350	Detroit Diesel V8	Ideco 500	CAT 3406

6/ PERSONNEL

The expatriate personnel of the Sondagens have more than 20 years of experience in the drilling sector. As former employees of Sonpetrol España SA, they have drilled in Guinea (for HISPANOIL), Tunisia (for AGIP and PETROFINA), France (for VERMELION), Spain (for REPSOL), Nigeria (for DUBRI and AGIP), Argentina (for YPF, TOTAL and PLUSPETROL), Venezuela (for PDVSA and TOTAL), Angola (for TOTAL-FINA PETROLEOS). The majority of Sondagens' senior operating staff is comprised of Spanish citizens with some originating from oil producing nations of South America.

Technical Staff Profiles

OPERATIONS MANAGER

Mr. Daniel Jiménez Moya is a Law Graduate by the Universidad Carlos III de Madrid (Spain) and holds a Master in Practice in Law by the same university. He also holds a Master degree in International Trade Law, University of West of England (Bristol, UK).

He has developed his professional career in legal supervision, development of international contracts and international dispute resolutions, client management and purchase supervision in the oil sector.



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RIG MANAGERS

FLORENTIN ZAMFIRACHE

Mr. Florentin Zamfirache is a petroleum engineer who worked for PETROM in Rumania before joining as Rig Superintendent and HSE expert with Sondagens in 2006.

Mr. Zamfirache has developed his career in the inspection industry as well, having achieved the title Level II EN473 in nondestructive magnetic, liquid penetrant, visual and ultrasonic testing.

ÁLVARO AUGUSTO ANAPAZ

Mr. Álvaro Augusto graduated at the Industrial Institute of Luanda and specialized subsequently in UK, Spain and France.

His fruitful career has been developed in renowned companies such as PETRANGOL and SONPETROL. He has worked in key onshore and offshore projects in Angola, Spain, France, Portugal, Guatemala, Nigeria, Argentina, Algeria and Venezuela.

Regarding onshore equipment, he has experience in the following rigs: NATIONAL - 1320/UE, GARDNER DENVER 500, IDECO S.7/11, NATIONAL -1625/UE, GARDNER DENVER 800, IDEAL 130, NATIONAL -110/UE, IDECO RAMBLER H -35, KB 700, NATIONAL -80/UE, SKYTOP BREWSTER RR-650, COOPER 750, H – 40, IDECO 350, CABOT 900. As for offshore oil fields, he has experience in GAVIOTA, AFORTUNADA, CASABLANCA and DRILLMAR-1.

JOSE MIGUEL GÓMEZ LLARENA

Mr. Jose Miguel Gómez graduated as a Mining Engineer at the University of Bilbao (Spain).

He has worked in significant projects in numerous countries such as Spain, Azores, Nigeria, Argentina, France, Angola and Venezuela for some of the big international oil companies CAMPSA, REPSOL, CEPSA and CHEVRON.

He has wide experience in the following rigs: ENSCO – 450, IDEAL – 110, NATIONAL – 1625-UE, WILSON – 75, SKYTOP RR – 650, NATIONAL – 80-UE, NATIONAL – 110-UE, GARDNER DENVER – 500, GARDNER DENVER – 800,



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NATIONAL – 1320-UE, COOPER – 750, CARWELL – 700, IDECO – 350.

TOOLPUSHERS

VICENTE MATA

Mr. Vicente has developed his professional career in some of the most relevant companies within the oil & gas sector such as REPSOL, YPF, PDVSA, SOLVAY, VERMEILLON, FINA PETROLEOS, ROCOIL, SOMOIL and TOTAL in Spain, Azores, Portugal, Nigeria, Argentina, Venezuela, Tunisia, France and Angola.

He has experience using the following rigs: ENSCO – 450, IDEAL – 110, NATIONAL – 1625-UE, WILSON – 75, SKYTOP RR – 650, NATIONAL – 80-UE, NATIONAL – 110-UE, GARDNER DENVER – 500, GARDNER DENVER – 800, NATIONAL – 1320-UE, COOPER – 750, CARWELL – 700, IDECO – 350.

JORGE DIANES

Mr. Jorge Dienes received his technical education in Venezuela.

He has wide experience in the oil & gas field as he has worked for companies such as Ensign Venezuela, Precision Drilling and Servicios Petroleros Flint.

He has experience in the following rigs: GARDNER DENVER-500, NATIONAL –1625, NATIONAL – 80, NATIONAL – 110, NATIONAL – 1320, COOPER – 750, GAVIOTA OIL RIG.

EDGAR CARNEIRO

Mr. Carneiro received his technical education in Venezuela.

He has worked for Ensign Venezuela, Nabors Drilling, Servicios petroleros Flint and Pride Drilling international.

He has experience in the following rigs: Land Rigs Box and Box, 1000 HP C/U, Top Drive Canrig, SCR Ross Hill System, mud pumps Continental EMSCO F-1000, generators GATO 1200, Engines CAT 3512. Land Cyber Rig 2000 HP, Land Rig Convencional 1000 HP, Land Rig Convencional 1000 HP, Stewart & Stevenson 1000 HP rig.



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CARLOS GAUNA

Mr. Gauna received his technical education in Argentina.

He has worked for MINAR, HAPSA, Kenting Drilling, Almeria Austral, Pride International, Ogas and Sondagens de Angola.

MECHANICAL SUPERVISOR

EDGAR NAVARRETE

Mr. Navarrete received his Industrial training in mechanics in Venezuela and subsequent specialization in Angola.

His professional experience has been developed in companies such as Ensign Venezuela, Pride International and Sondagens de Angola since 2008.

7/ Additionnel Information

Sondagens de Angola SA-Tecnologia de Sondagens SL
Luanda: Condominio Interland.
Madrid: C/ Provisional Pol. Ind. Vallecas Nº 20, CP 28031.
Date of Incorporation 2005
Company Registration Number 5401157665
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SA02 Cabinda



HSE awards



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Safety first.



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Tripping down.



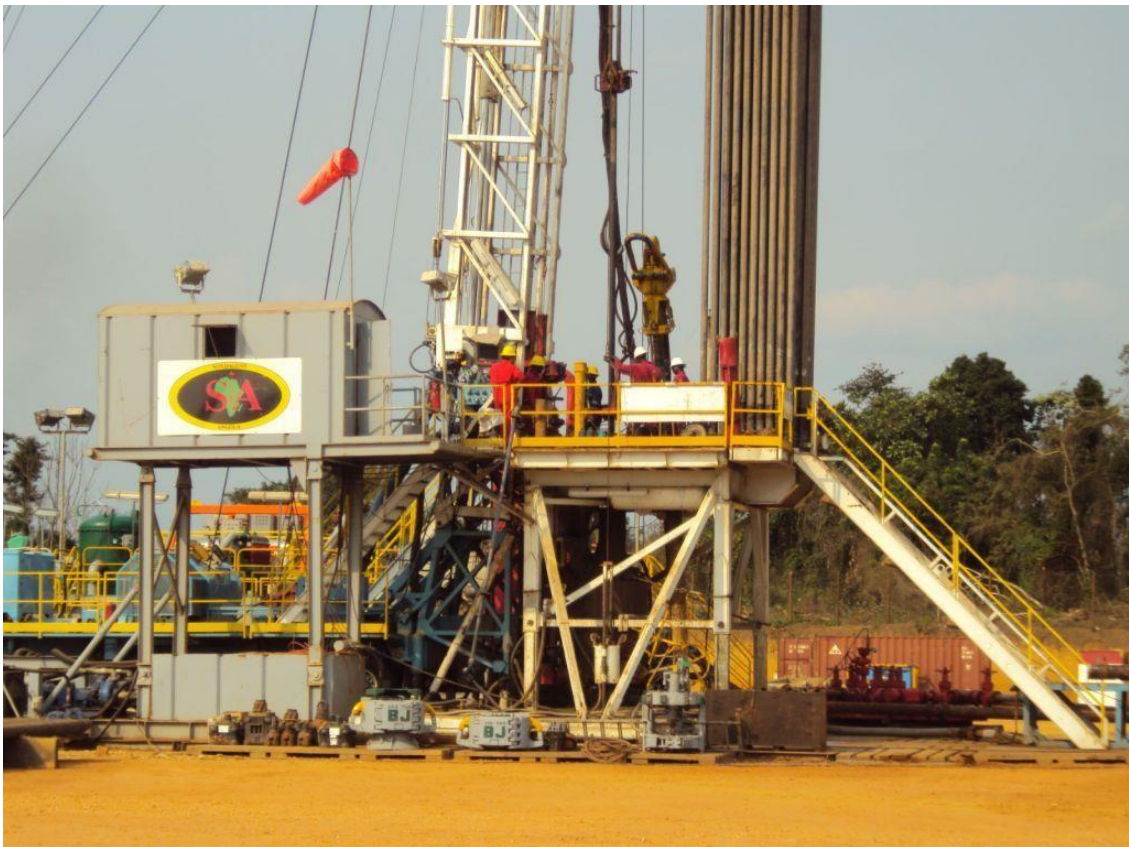
Castanha 3 (Cabinda).



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Safety course.



Pluspetrol Operation Cabinda South.



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HSE awards



Rig move in Cabinda.



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Preparing the location.



SA03 in the rainforest.



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SA01 Soyo.



SA01 Workover for TOTAL-FINA.



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SA01 in Qinfuquena Base.



IADC MEMBER Nº: 182110 C1



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Contract Sondagens-Somoil (Soyo) 2012.



Soyo KB700 moving.



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KB700 Operation for Total-Fina.



SA04 1000 HP Rigging up for test (Spain).



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SA04 F1000 Mud pumps and CAT399 Engines.



SA03 F800 Mud pumps and CAT3508 engines.



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SA03 Overhaul(Spanish base).



SA03 Substructure



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SA03 750 HP



SA04 in Cabinda North



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SA04 Cabinda



Sondagens Base in Spain