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A - Well Data Base, Well Reports & Well Logs

WELL DATA BASE

Compiled data base of 17 offshore exploration wells which includes the public data like (well-name, coordinates, spud date, etc) formation tops, directional survey data, checkshots survey data and petroleum shows.

Well header Summary	Block Name	Surface Latitude	Surface Longitude	UTM 33 X	UTM 33 Y	Spud Date (Y-M-D)	Fin. Drill. (Y-M-D)	Operator	Drillers TD (m)	Water Depth (m)	Elevation (m)
ABACAXI-1	9	-10.91789	13.51683	337908.1	8792811	9/17/1982	12/26/1982	Cities Service	4099.7	160	16
AGUIA-1	6	-8.635519	13.059864	286499.5	9044987	9/26/1981	11/12/1981	Total	3741	115	24
BALEIA-1	20	-9.358778	12.523903	228029.8	8964620	8/5/1996	10/24/1996	Mobil	3886	779	11
DELFIN-1	20	-9.605866	12.579859	234369.9	8937324	8/6/1997	9/9/1997	Mobil	3299	850	11
DENDEN-1	9	-11.00388	13.540015	340488.5	8783313	1/13/1983	3/25/1983	Cities Service	3850.28	213.4	16
EOVA-1	24	-12.12382	13.020088	284523.8	8659093	8/20/2001	9/18/2001	Esso	4072	1289	26
FALCAO-1	6	-8.824411	12.989106	278821.3	9024054	2/18/1992	4/19/1992	Conoco	4419	205	33
IONA-1	21	-10.17573	12.463948	222119.7	8874173	8/23/2001	9/12/2001	BHP	3081	1573	25
KANGANDALA-1	21	-10.15553	12.51143	227308.4	8876448	2/20/2002	2/27/2002	BHP	2517	1534	25
LEAO-1	25	-12.35479	12.717126	251753	8633277	12/30/2000	1/30/2001	Agip	2730	1615	24
MARIPOSA-1	19	-8.48006	12.547576	229986	9061863	3/2/2002	3/30/2002	Total	3570	1231	26
MUCUA-1	9	-11.21068	13.568314	343691	8760458	1/19/1982	4/23/1982	Cities Service	4250.8	202.68	16
NAVALHA-1	7	-9.513474	12.692835	246708	8947631	5/31/1993	8/21/1993	Elf	4273.5	358	25
PANTERA-1	25	-12.33078	12.910701	272791.2	8636107	2/28/2003	3/24/2003	Agip	3383	1453	19
SEMBA-1	24	-12.1793	13.111679	294537.8	8653026	2/21/2001	4/3/2001	Esso	3746	1167	26
SERRA DO MOCO-1	22	-10.65541	12.781105	257260.6	8821359	3/8/2002	3/17/2002	Chevron	2529.54	1346.3	25
VARINA-1	24	-12.1042	13.160236	299766.7	8661370	2/11/2003	2/19/2003	Esso	2600	1082	19

WELL REPORTS & WELL LOGS

17 wells were selected for their strategic importance, in terms of the exploration objectives reached and their results as well as being situated on, or close to, the selected seismic lines listed in A.

Type	Wells reports & Well Logs																
	ABACAXI-1	AGUIA-1	BALEIA-1	DELFIM-1	DENDEN-1	EOVA-1	FALCAO-1	IONA-1	KANGANDALA-1	LEAO-1	MARIPOSA-1	MUCUA-1	NAVALHA-1	PANTERA-1	SEMBA-1	SERRA DO MOCO-1	VARINA-1
Geological Report	X				X	X	X	X	X	X		X		X	X		X
Final Well Report	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	
End of Well Report			X	X		X			X		X				X	X	X
Geochemical Report	X	X			X	X	X	X				X	X		X		X
Biostatigraphic Report	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X
Petrographic Report		X	X	X													
Petrophysics Report	X*				X*	X*	X*			X		X*		X	X		X
Composite Log (Imag)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Digital Log(DLIS or LIS)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Well Log ASCII	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Directional survey						X		X	X	X			X	X	X	X	X
Checkshot	X	X				X		X			X			X	X		X
Well-hdr	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Formation Top	X	X	X	X	X		X	X	X	X	X	X	X	X		X	
Well Shows	X	X	X	X	X		X		X	X		X	X				
VSP Report		X				X	X						X				

* Petrophysical analysis is included in the Geological Report.

B - Seismic Lines & Shot Point Location Map

Seismic Surveys:

2D: 98MAG, A84, A89, A91, AWG97, AWG98, AWG99, C1C, C1D, C1E, C1F, C1G, C1H, C1J, GWA88, NB91, NWG98, WG96.

3D: Angola Phase3 West of Block 19 1999 3D, Angola Blocks 21/22 1999 3D, Angola Block 23 2001 3D, Angola Block 26 2000 3D, Angola Phase 4 3D, Angola Phase V 1999 3D, Kwanza Kubes 3D 2003.

Summary per Block: 2D and 3D

Block Name	2D Data Total (Km)	3D Data Total (Sq. Km)
Block 35	1,050.31	9,413.40
Block 36	1,089.53	8,028.06
Block 37	1,494.69	7,178.92
Block 38	1,891.53	2,630.10
Block 39	2,799.92	52.27
Block 40	2,884.39	-
Total	11,210.39	27,302.75

Seismic Location Map: 2D and 3D

There is a map whole area of Blocks 35, 36, 37, 38, 39 and 40 with 2D and 3D surveys plotted.

C – Well Intersected By Seismic Lines

According with the reports following wells are intersected by seismic lines.

Wells	Seismic Line	Shotpoint
Abacaxi-1	SC81-119 / SC81-116	10,300 / 314
Baleia-1	Inline 95MAW-18	Xline 2204
Delfim-1	Inline 95MAW-84	Xline 1161
Denden-1	SC81-107	1860
Eova-1	Inline 7789	Xline 8353
Falcao-1	ST-06-80-47	740
Iona-1	Inline 6872	Xline 6672
Jaguar-1	Inline 2559	Xline 10338
Kangandala-1	Inline 6910	
Leao-1	Inline 2125	Xline 6796
Mariposa-1bis	Inline 3339	Xline 3739
Mucua-1	G78-22	1309
Navalha-1	SC-82-7110	167
Semba-1	Inline 8281	Xline 9150
Varina-1	Inline 7617	Xline 9574

D – Studies Reports

There are some studies reports available.

- Angola & Namibia Regional study
- Hydro carbon potential of the kwanza and Namibe Sedimentary Basins. Volumes 1, 2 & 3 (NOPEC)

E - Maps

- 1 – Concession Map
- 2- Location map
- 3 – Well Location Map
- 4 – Seismic Coverage Map

F - Legal Information

- Petroleum Customs Law
- Petroleum Taxation Law
- Decree 20/82
- Order 127/03 Law
- Petroleum Activities Law
- Service Risk Contract