

PETRO-TECH PERUANA S.A

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DAILY GEOLOGICAL REPORTWell **L018-23**Date **23/12/97**Depth **7235** Drilled **727** 6 a.m. **7449** Days **21** Rig **PETREX-3**Formation **MOGOLLON** PO **CIRCULATING TO SHORT TRIP****SURVEYS**

M. Depth	V. Angle	True Direction		V. Depth	H. Section	Coordinates
6520'	42.30	S	57.6 W	5362.71		
6584'	41.80	S	57.6 W	5410.27		
6679'	41.40	S	58.50 W	5481.27		
6838'	40.30	S	58.10 W	5601.54		
6996'	39.80	S	58.10 W	5722.49		

LITHOLOGY

From	To	Clst %	Shale %	Sist %	Sand %	Sst %	Cgl %	Dol %	Lim %	Fluor %	TG unit	C ₁ ppm
6570	6580	70		10				10		NF		
	6590	80		10		10				NF		
	6610	70		20		10				NF		
	6620	60		20	10	10				NF		
	6630	60		10	10	20				S		
	6640	70		10		10		10		NF		
	6660	80		10				10		NF		
	6670	80		10		10				NF		
	6690	70		10		20				NF		
	6710	90		10						NF		
	6720	80		10		10				NF		
	6740	70				20		10		NF		
	6750	50	20	10		10		10		NF		
	6760	70	10	10				10		NF		
	6770	80		10				10		NF		
	6790	80		10				10		NF		
	6810	70	20	10						NF		
	6820	60	20	10				10		NF		
	6840	70	10	10				10		NF		
	6850	70	20					10		NF		
	6860	60	30					10		NF		
	6870	70	30							NF		
	6880	60	20	10				10		NF		
	6890	40	40	10				10		NF		
	6900	30	60	10						NF		
	6910	20	70					10		NF		
	6920	40	40					20		NF		
	6930	10	80					10		NF		
	6940	20	70					10		NF		
	6960	50	40					10		NF		
	6970	40	40	10				10		NF		
	6980	60	20	10				10		NF		
	6990	30	60					10		NF		
	7000	60	20	20						NF		
	7010	60	10	20				10		NF		
	7020	60	20	20						NF		
	7030	60	20	10				10		NF		
	7050	40	40	20						NF		
	7060	40	40	10		10				NF		
	7070	40	30	10		20				NF		
	7090	50	20	20		10				NF		
	7100	60	10	20		10				NF		
	7110	40	20	20		20				NF		
	7130	40	10	20		10		20		NF		
	7140	60		20		10		10		NF		
	7150	60	10	20				10		NF		
	7170	60		20		10		10		NF		
	7180	70		20		10				NF		

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DAILY GEOLOGICAL REPORT

Well **L016-23**

Date **21/12/97**

Depth **6330** Drilled **—** 6 a.m. **6424** Days **19** Rig **PETREX-3**
 Formation **MOGOLLON** PO **DRILLING**

SURVEYS

M. Depth	V. Angle	True Direction	V. Depth	H. Section	Coordinates

LITHOLOGY

From	To	Clyst %	Shale %	Sist %	Sand %	Sst %	Cgl %	Dol %	Lim %	Fluor %	TG unit	C ₁ ppm
6330	6340	30		20	30	20				15-30		
	6350	80			10	10				5		
	6360	80		10		10				5		
	6370	40		10	20	20		10		15-30		
	6380	80			10	10				5		
	6390	70		10	10	10				5		
	6400	80				20				5		
	6410	70		10		20				NF		
	6420	80		10		10				NF		

Remarks **INTERVALLOS CORREGIDOS: 6330 - 6340**
6360 - 6370

ESTA HOJA ES LA CORRECTA

DAILY GEOLOGICAL REPORT

Well **LO16-23**

Date **20/12/97**

Depth	6330	Drilled	—	6 a.m.	6330	Days	18	Rig	PETREX-3			
Formation	MOGOLLON	PO	N/U BOP'S									
SURVEYS												
M. Depth	V. Angle	True Direction		V. Depth	H. Section	Coordinates						
LITHOLOGY												
From	To	Clyst %	Shale %	Sist %	Sand %	Sst %	Cgl %	Dol %	Lim %	Fluor %	TG unit	C1 ppm

Remarks **CASING 95/8" AT 6322'**

PETRO-TECH PERUANA S.A

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DAILY GEOLOGICAL REPORT

Well LO18-23

Date 19/12/97

Depth	6330	Drilled	---	6 a.m.	6330	Days	17	Rig	PETREX-3			
Formation	MOGOLLON	PO	RUN CASING 9 5/8"									
SURVEYS												
M. Depth	V. Angle	True Direction		V. Depth	H. Section		Coordinates					
LITHOLOGY												
From	To	Clst %	Shale %	Sst %	Sand %	Sst %	Cgl %	Dol %	Lim %	Fluor %	TG unit	Ci ppm

Remarks PALEO: 6230 - 6330 BARREN.

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PETRO-TECH PERUANA S.A

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DAILY GEOLOGICAL REPORT

Well **LO16-23**Date **18/12/97**Depth **6310** Drilled **666** a.m. **6330** Days **16** Rig **PETREX-3**Formation **MOGOLLON** PO **POOH TO SHORT TRIP**

SURVEYS

M. Depth	V. Angle	True Direction	V. Depth	H. Section	Coordinates
5752	46.6°	S 63.7 W	4826	2529.12	S 1273.68 W 2185.01
5848	46.5°	S 64.6 W	4890	2597.15	S 1303.43 W 2246.42
5942	46.2°	S 64.7 W	4957	2666.34	S 1333.17 W 2309.20
6037	46.0°	S 65.1 W	5022	2734.5	S 1362.21 W 2371.18
6132	46.0°	S 64.2 W	5088	2802.57	S 1391.47 W 2432.94

LITHOLOGY

From	To	Clst %	Shale %	Silt %	Sand %	Sst %	Cgl %	Dol %	Lim %	Fluor %	TG unit	C1 ppm
5710	5770	80		10				10		NF		
5770	5800	90	10							NF		
	5880	80		10				10		NF		
	5920	90		10						NF		
	5950	100								NF		
	5980	90		10						NF		
	6000	100								NF		
	6010	90						10		NF		
	6020	80		10				10		NF		
	6050	80		10		10				NF		
	6060	70		10		10		10		NF		
	6070	80		10		10				NF		
	6080	80		10				10		NF		
	6100	80		10		10				NF		
	6110	90		10						NF		
	6120	80		10		10				NF		
	6140	70		10		10		10		NF		
	6150	90		10						NF		
	6180	50	30	10		10				NF		
	6190	60	30	10						NF		
	6210	40	30	10		10		10		NF		
	6220	60	20	10		10				NF		
	6230	40	30	10		10		10		NF		
	6240	60	20	10		10				NF		
	6250	60	10	10		10		10		NF		
	6270	70	10	20						NF		
	6280	60	10	10		20				5		
	6290	50	20	10		20				5-15		
	6300	60	10		10	20				15		
	6310	60			10	30				15-30		
	6320	60			10	30				15		
	6330	50		10	10	30				15-30		

Remarks **MOGOLLON FM @ 6270 MD 5130 Ss W-2523 S-1433 HD-2902****BCK 50 MAX FOR GAS; 129 @ 5777 234 @ 5870****PALEO; 5820 - 5800 PALEGREDA FAUNA TRACES****5800 - 6070 PALEGREDA FAUNA VERY POOR TO POOR****6070 - 6230 PG. FAUN**

SS: WH'sh, WH'sh Gy'sh, F, F-M gr, SLTY MTX IN PT, CALL CAT

SD: H₂, H₂WH, VF-F 70%, F-M 30% GA-SA

FLUOR: LT yell'sh, SLBRI, MOD CAT.

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DAILY GEOLOGICAL REPORT

Well L016-23

Date 17/12/97

Depth 5644 Drilled 656 6 a.m. 5770 Days 15 Rig PETREX-3
 Formation PALEGREDA PO DRILLING

SURVEYS

M. Depth	V. Angle	True Direction	V. Depth	H. Section	Coordinates
5030	37.1	S 59.8 W	4293	2043	S 1043.48 W 1756.49
5124	38.6	S 60.4 W	4368	2100.71	S 1072.23 W 1808.49
5283	40.9	S 61.0 W	4490	2202.35	S 1121.97 W 1895.15
5440	43.1	S 61.9 W	4607	2307.34	S 1172.16 W 1987.43
5599	46	S 62.8 W	4720	2418.74	S 1223.90 W 2086.23

LITHOLOGY

From	To	Clst %	Shale %	Slat %	Sand %	Sst %	Cgl %	Dol %	Lim %	Fluor %	TG unit	Cl ppm
5320	5350	70	10	10				10		NF		
	5380	70		20				10		NF		
	5410	70	10	10				10		NF		
	5440	70		20				10		NF		
	5550	80		10				10		NF		
	5560	90						10		NF		
	5590	80	10					10		NF		
	5610	90	10					10		NF		
	5680	80	20							NF		
	5710	80	10					10		NF		

Remarks PALEO; PALEGREDA FAUNA TRACES - VERY POOR
 BCK; 57 MAX FOR GAS; 443 @ 5204

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DAILY GEOLOGICAL REPORT

Well LO16-23

Date 16/12/97

Depth	4888	Drilled	345	6 a.m.	5359	Days	14	Rig	PETREX-3			
Formation	PALEGREDA PO DRILLING											
SURVEYS												
M. Depth	V. Angle	True Direction		V. Depth	H. Section	Coordinates						
4888	38.5°	S	59.8 W	4022	1834.54	S	937.52	W	1576.93			
4888	37.3°	S	59.1 W	4163	1943.88	S	989.08	W	1671.10			
LITHOLOGY												
From	To	Chyst %	Shale %	Sist %	Sand %	Sst %	Cgl %	Dol %	Lim %	Fluor %	TG unit	C1 ppm
4810	4870	100								NF		
	4900	90		10						NF		
	4980	100								NF		
	5020	80	20							NF		
	5050	70	20					10		NF		
	5140	80	20							NF		
	5230	60	20	10				10		NF		
	5280	80	10	10						NF		
	5290	70	20	10						NF		
	5320	80	10	10						NF		

Remarks PALEO: 4480 - 4900 PALEGREDA FAUNA TRACES

4900 - 4980 PALEGREDA FAUNA VERY POOR.

BCK: 60 MAX FOR GAS; 970 @ 4658

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DAILY GEOLOGICAL REPORT

Well LO16-23

Date 15/12/97

Depth 4643 Drilled 1043 8 a.m. 4822 Days 13 Rig PETREX-3

Formation PALEGREDA PO DRILLING

SURVEYS

M. Depth	V. Angle	True Direction		V. Depth	H. Section	Coordinates	
3613'	43.6	S	58.9 W	3212'	1129.61	S	580.89 W 968.86
3772'	43.2	S	59.0 W	3327'	1238.85	S	637.23 W 1062.46
3931'	42.7	S	59.0 W	3443'	1347.18	S	693.03 W 1155.32
4089'	41.3	S	59.2 W	3561'	1452.89	S	747.32 W 1246.03
4247'	40.0	S	59.8 W	3681'	1555.57	S	799.57 W 1334.71

LITHOLOGY

From	To	Clst %	Shale %	Silt %	Sand %	Sst %	Cgl %	Dol %	Lim %	Fluor %	TG unit	Ci ppm
3759	3860	90						10		NF		
	3940	100								NF		
	3970	80		10				10		NF		
	4000	70				10		20		NF		
	4060	90						10		NF		
	4120	80						20		NF		
	4150	90						10		NF		
	4180	100								NF		
	4210	90						10		NF		
	4270	80		10						NF		
	4300	90		10						NF		
	4330	80		20						NF		
	4360	100								NF		
	4420	90		10						NF		
	4510	100								NF		
	4570	90		10						NF		
	4660	100								NF		
	4720	90		10						NF		
	4810	100								NF		

Remarks PALEGREDA FM. @ 4330 MD 3680 Ss S:827 W:1381 HD:1610

BCK 51 MAX FOR GAS: 120 @ 4287 130 @ 4395

PALEO: 3430 - 3790 CHACRA FAUNA VERY POOR

3790 - 4060 LW. CHACRA FAUNA POOR TO COMMON

4060-4480 PG TRC

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DAILY GEOLOGICAL REPORTWell **LO16-23**Date **12/12/97**

Depth	2547	Drilled	-	6 a.m.	2547	Days	10	Rig	PETREX-3			
Formation	TALARA GRP	PO	NU BOP									
SURVEYS												
M. Depth	V. Angle	True Direction		V. Depth	H. Section	Coordinates						
LITHOLOGY												
From	To	Clyst %	Shale %	Sst %	Sand %	Sst %	Cgl %	Dol %	Lim %	Fluor %	TG unit	Cl ppm

Remarks **CASING 13 3/8" @ 2547.**

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DAILY GEOLOGICAL REPORT

Well LO16-23

Date 11/12/97

Depth	2547	Drilled	--	6 a.m.	2547	Days	9	Rig	PETREX-3			
Formation	TALARA GRP PO POOH TO RUN 1336"											
SURVEYS												
M. Depth	V. Angle	True Direction		V. Depth	H. Section	Coordinates						
2367	36.7	S	57.6 W	2313.4	266							
2462	41.9	S	56.9 W	2366.9	327							
LITHOLOGY												
From	To	Clyst %	Shale %	Slat %	Sand %	Set %	Cgl %	Dol %	Lim %	Fluor %	TG unit	C ₁ ppm

Remarks 1960-2530 CLAVIGERINELLA COLOMBIANA BIOZONE FAUNA POOR TO COMMON.

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PETRO-TECH PERUANA S.A

DAILY GEOLOGICAL REPORT

Well **LO16-23**Date **10/12/97**Depth **2432** Drilled **387** 6 a.m. **2547** Days **8** Rig **PETREX-3**Formation **TALARA GRP** PO **POOH TO CASING** ✓

SURVEYS

M. Depth	V. Angle	True Direction	V. Depth	H. Section	Coordinates

LITHOLOGY		Clyst %	Shale %	Silt %	Sand %	Sst %	Cgl %	Dol %	Lim %	Fluor %	TG unit	C _i ppm
From	To											
2020	2050	80		10		10				NF		
	2080	80		10		10				NF		
	2170	90		10						NF		
	2200	100								NF		
	2230	90						10		NF		
	2280	80		10				10		NF		
	2320	90						10		NF		
	2350	80		10				10		NF		
	2380	70		10		10		10		NF		
	2470	100								NF		
	2540	90						10		NF		

Remarks **BCK: 51****MAX FOR GAS, 426 @ 2132.**

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DAILY GEOLOGICAL REPORT

Well LO16-23

Date 09/12/97

Depth	2045	Drilled	205	6 a.m.	2045	Days	7	Rig	PETREX-3			
Formation	TALARA GRP		PO		RIH							
SURVEYS												
M. Depth	V. Angle	True Direction		V. Depth	H. Section	Coordinates						
1768	7.7	S	46.3 W	1765.0	4.3							
1829	10.2	S	63.7 W	1827.3	5.8							
1892	13.6	S	65.7 W	1898.9	5.4							
1955	17.1	S	64.1 W	1949.7	5.6							
LITHOLOGY												
From	To	Clyst %	Shale %	Sist %	Sand %	Sst %	Cgl %	Dol %	Lim %	Fluor %	TG unit	C ₁ ppm
1870	1900	70		20				10		NF		
	1930	60		20		10		10		NF		
	1980	70		10		10		10		NF		
	1990	70		20				10		NF		
	2020	70		10		10		10		NF		

Remarks PALEO : 1890 - 1980 CLAVIGERINELLA COLOMBIANA BIOZONE FAUNA COMMUN.

BCK ; 56

MAX. FOR. GAS 206 @ 1984.

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DAILY GEOLOGICAL REPORTWell **LO16-23**Date **08/12/97**

Depth	1840	Drilled	95	6 a.m.	1882	Days	6	Rig	PETREX-3			
Formation	TALARA GRP	PO	DRILLING									
SURVEYS												
M. Depth	V. Angle	True Direction		V. Depth	H. Section	Coordinates						
1703	5.3	S	60.4 W	1702.4	4.3							
1734	6.5	S	52.0 W	1733.3	4.7							
LITHOLOGY												
From	To	Clyst %	Shale %	Sist %	Sand %	Set %	Cgl %	Dol %	Lim %	Fluor %	TG unit	C ₁ ppm
1810	1870	80						10	10	NF		

Remarks

Total : 16,257 (-18)

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DAILY GEOLOGICAL REPORT

Well **LO16-23**

Date **07/12/97**

Depth **1745** Drilled **310** S a.m. **1813** Days **5** Rig **PETREX-3**
 Formation **TALARA GRP** PO **DRILLING**

SURVEYS

M. Depth	V. Angle	True Direction	V. Depth	H. Section	Coordinates
715'	1.2°	S 48.7° O	715'		
1513'	1.4°	S 87.2° O	1512'		
1671'	4.4°	S 73.1° O	1670'		

LITHOLOGY

From	To	Clst %	Shale %	Sist %	Sand %	Set %	Cgl %	Dol %	Lim %	Fluor %	TG unit	C ₁ ppm
1435	1450	10			70	20				NF		
	1510	20			60	20				NF		
	1540	10			60	30				NF		
	1570	20			60	20				NF		
	1600	70			20	10				NF		
	1630	80				10			10	NF		
	1660	90						10		NF		
	1720	90						10		NF		
	1750	60			10	10		10	10	NF		
	1810	80						10	10	NF		

Remarks **PALEO; 1240 - 1600 BARREN**
1600 - 1680 CLAVIGERINELLA COLOMBIANA ZONE FAUNA POOR.

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DAILY GEOLOGICAL REPORT

Well **LO16-23**Date **05/12/97**

Depth **892** Drilled **329** 6 a.m. **1125** Days **3** Rig **PETREX-3**
Formation **TALARA GRP** PO **DRILLING**

SURVEYS

M. Depth	V. Angle	True Direction	V. Depth	H. Section	Coordinates

LITHOLOGY		Chst %	Shale %	Sist %	Sand %	Sst %	Cgt %	Dol %	Lm %	Fluor %	TG unit	C1 ppm
From	To											
550	610	100										
	640	90		10						NF		
	680	80		20						NF		
	700	80		10	10					NF		
	730	50			10					NF		
	760	60			10			10	30	NF		
	790	70			10			10	20			
	820	60			20			10	10	NF		
	850	80			10			10	10	NF		
	880	80				10			10	NF		
	940	60			10	20			10	NF		
	970	60			10	20			10	NF		
	1000	60			10	10			10	NF		
	1030	60			20			10	10	NF		
	1060	50			30	10		10	10	NF		

Remarks **SPUD DRILLING ; 15.00 HRS. DEC 4, 1997**
SHOE AT 563 .

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PETRO-TECH PERUANA S.A

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DAILY GEOLOGICAL REPORT

Well **LO16-23**Date **31/12/97**

Depth **9112** Drilled **115** 6 a.m. **9153** Days **29** Rig **PETREX-3**
 Formation **B. SALINA** PO **DRILLING**

SURVEYS

M. Depth	V. Angle	True Direction	V. Depth	H. Section	Coordinates

LITHOLOGY		Clyst %	Shale %	Sist %	Sand %	Sst %	Cgl %	Dol %	Lim %	Fluor %	TG unit	Ci ppm
From	To											
9035	9040		70	10		20				NF		
	9045		80	10		10				NF		
	9050		70	10		20				NF		
	9055		80	10		10				NF		
	9065		70	10		20				5		
	9070		90	10						NF		
	9075		40	10		50				NF		
	9080		80	10		10				NF		
	9105		100							NF		
	9115		90	10						NF		
	9120		80	10		10				NF		
	9125		70	20		10				NF		
	9130		80	10		10				NF		
	9140		80	10		10				5		

Remarks **BCK: 80 MAX FOR GAS: 172 @ 9105' TRIP GAS: 2370 @ 9105'**
PALEO: 8980 - 9070 PG/SN FAUNA TRACES.

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TD: 9153 (-7423)
 S: 2369 W: 3993
 HD: 4643

PETRO-TECH PERUANA S.A

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DAILY GEOLOGICAL REPORT

Well LO16-23

Date 30/12/97

Depth	8997	Drilled	68	6 a.m.	9050	Days	28	Rig	PETREX-3			
Formation	B. SALINA	PO	DRILLING									
SURVEYS												
M. Depth	V. Angle	True Direction		V. Depth	H. Section		Coordinates					
LITHOLOGY												
From	To	Clyst %	Shale %	Sst %	Sand %	Sst %	Cgl %	Dol %	Lim %	Fluor %	TG unit	Ci ppm
8935	8940		60		20	20				5-15		
	8950		80	10		10				NF		
	8955		90	10						NF		
	8960		80	10		10				NF		
	8965		60	10	10	20				5		
	8970		50	10	20	20				5-15		
	8975		20		70	10				50		
	8980		40		40	20				30-50		
	8985		60		30	10				15-30		
	8990		70	10	10	10				5		
	8995		20		70	10				5-15		
	9000		30		60	10				5		
	9005		70		10	20				NF		
	9010		40		50	10				5-15		
	9015		30		50	20				5-15		
	9020		30		40	30				5-15		
	9025		70		10	20				NF		
	9030		80	10		10				NF		
	9035		90	10						NF		

Remarks BCK: 70 MAX FOR GAS; 239 @ 8977 TRIP GAS; 4141 AND 7300 @ 8935
 PALEO: 8910 - 8980 PG/SN FAUNA TRACES TO VERY POOR.

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9050 (-7337)

S: 2337

HD: 4586

W: 3946

PETRO-TECH PERUANA S.A.

DAILY GEOLOGICAL REPORT

Date 29/12/97

Well L016-23

Days 27

Rig PETREX-3

Depth 8929

Drilled

200

6 a.m.

8935

Formation

B. SALINA

PO POOH TO CHANGE BIT.

SURVEYS

M. Depth

V. Angle

True Direction

V. Depth

H. Section

Coordinates

LITHOLOGY

From

To

Chyst %

Shale %

Slat %

Sand %

Sst %

Cgl %

Dol %

Lim %

Fluor %

TG unit

Cl ppm

8780

8820

50

10

10

NF

8830

30

10

NF

8850

30

10

10

NF

8860

30

10

5

8870

90

10

10

15

8880

80

10

40

50

8890

50

60

10

15

8900

30

20

10

50-75

8910

70

70

10

15

8920

20

20

10

50

8930

70

50

10

8935

40

Remarks BCK: 69 MAX FOR GAS: 450 @ 8897
 PALEO: 8710-8770 PG/SN FAUNA POOR
 8770-8830 PG/SN FAUNA TRACES
 8830-8910 PG/SN FAUNA VERY POOR.

1935 = C. WH. sh, F.M. 20% M.C. 50% C.V.C. 30% gr. Qtz & Qtz
 FL: AMARILLO BRILANTE, CORTE RAPIDO, AMARILLO BRILANTE

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DAILY GEOLOGICAL REPORT

Well **L016-23**

Date **28/12/97**

Depth **8729** Drilled **284** 6 a.m. **8784** Days **26** Rig **PETREX-3**
 Formation **B. SALINA** PO **DRILLING**

SURVEYS

M. Depth	V. Angle	True Direction	V. Depth	H. Section	Coordinates

LITHOLOGY		Chyst	Shale	Sist	Sand	Sst	Cgl	Dol	Lim	Fluor	TG	C ₁
From	To	%	%	%	%	%	%	%	%	%	unit	ppm
8540	8550		70	10		20				NF		
	8560		80	10		10				NF		
	8570		70	20		10				NF		
	8580		70	10		20				NF		
	8590		80	10		10				NF		
	8600		90	10						NF		
	8610		80	10		10				NF		
	8620		90			10				NF		
	8630		80	10		10				NF		
	8650		80	20						NF		
	8660		80	10		10				NF		
	8670		70	20		10				NF		
	8700		90	10						NF		
	8710		80	10		10				5		
	8720		60	10	10	20				5		
	8730		80	10		10				NF		
	8740		60	20		20				NF		
	8750		50	10	20	20				5		
	8760		70		10	20				5		
	8770		90	10						NF		
	8780		100							NF		

Remarks BCK: 90 MAX FOR GAS: 314 @ 8656 SHORT TRIP GAS: 1236 @ 8729
 PALEO: 8420 - 8480 PG/SN FAUNA POOR + BALC. RWK TRC.
 8480-8710 PG/SN FAUNA VP TO POOR.

Last Modification 28/12/97 - 07:47:53

DAILY GEOLOGICAL REPORT

Well **L016-23**

Date **27/12/97**

Depth **8445** Drilled **92** 6 a.m. **8553** Days **25** Rig **PETREX-3**

Formation **B. SALINA** PO **DRILLING**

SURVEYS

M. Depth	V. Angle	True Direction	V. Depth	H. Section	Coordinates

LITHOLOGY	From	To	Clyst %	Shale %	Sist %	Sand %	Sst %	Cgl %	Dol %	Lim %	Fluor %	TG unit	C ₁ ppm
	8370	8380	60		20		20				NF		
		8390	20	60	10		10				NF		
		8410	10	50	20		20				5		
		8420	30	40	10		20				5		
		8430	10	60	20		10				NF		
		8440	10	70	10		10				NF		
		8450	60		10		30				5		
		8460	10	60	10		20				5		
		8470	40		10	10	40				15		
		8480		50	20		30				5-15		
		8490		20			80				50-75		
		8500		60	20		20				15		
		8510		60	10		30				5		
		8520		50	10		40				15		
		8530		50	20		30				5		
		8540		40	10	10	40				15		

Remarks **MAX FOR GAS; 168 @ 8409' 284 @ 8382'**
SHORT TRIP GAS; 4200 @ 8373'
PALEO; 8340 - 8420 PG/SN FAUNA VP TO POOR.

Last Modification 27/12/97 - 08:10:07

PETRO-TECH PERUANA S.A

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DAILY GEOLOGICAL REPORT

Well LO16-23

Date 26/12/97

Depth 8353 Drilled 391 6 a.m. 8373 Days 24 Rig PETREX-3

Formation B. SALINA PO POOH TO CHANGE BIT

SURVEYS

M. Depth	V. Angle	True Direction			V. Depth	H. Section	Coordinates	
7945'	36.2	S 5	56.3	W	8466'	3977.46	S	1997.09 W 3439.80
8103'	34.6	S	56.1	W	6594.79	4068.83	S	2048.00 W 3515.85
8261'	33.9	S	56.6	W				

LITHOLOGY

From	To	Clyst %	Shale %	Sist %	Sand %	Sst %	Cgl %	Dol %	Lim %	Fluor %	TG unit	C ₁ ppm
8080	8100	70	20	10						NF		
	8110	80	10	10						NF		
	8120	80	20							NF		
	8160	70	30							NF		
	8210	60	20	10		10				NF		
	8220	40	20	10	10	20				NF		
	8230	60	20	10		10				NF		
	8240	60	30			10				NF		
	8250	90		10						NF		
	8260	70		20		10				NF		
	8270	80		10		10				NF		
	8280	70	10	20						NF		
	8290	60	10	20		10				5-15		
	8300	70		20		10				5-15		
	8310	90		10						NF		
	8320	50		10	10	30				5-15		
	8330	40			40	20				30		
	8340	20			70	10				50		
	8350	80		10		10				NF		
	8360	40		10	20	10		20		5-15		
	8370	70		20		10				NF		

Remarks BASAL SALINA FM. @ 8200 MD 6619 Ss S; 2078 W; 3561 HD; 4123

BCK120 MAX FOR GAS; 450 @ 8284

PALEO; 7930 - 8050 PG/SN FAUNA COMMON + BALC. RWK TRACES

8050 - 8220 PG/SN FAUNA ABUNDANT + BALC. RWK POOR

8220 - 8280 Pg/Sn FAUNA C + BALC. RWK Vp 8280 - 8340 Pg/Sn Vp + BALC. RWK TRC

PARA: MARCO DUQUE

DE: CESAR MORALES

26.12.97

DAILY GEOLOGICAL REPORT

Well LO16-23

Date 25/12/97

 Depth 7962 Drilled 464 6 a.m. 8095 Days 23 Rig PETREX-3
 Formation S. CRISTOB PO DRILLING

SURVEYS

M. Depth	V. Angle	True Direction	V. Depth	H. Section	Coordinates
7472	38.4	S 58.4 W			
7630	37.8	S 58.2 W			
7787	36.8	S 57.6 W			

LITHOLOGY	From	To	Clyst %	Shale %	Sist %	Sand %	Sst %	Cgl %	Dol %	Lim %	Fluor %	TG unit	C1 ppm
	7640	7650	60		10	10	20				5-15		
		7660	70		20		10				NF		
		7670	80		10		10				NF		
		7680	40		10	10	40				5-15		
		7700	70		10		20				5		
		7720	80		10		10				NF		
		7730	70		20		10				NF		
		7740	80		10		10				NF		
		7760	70		20		10				NF		
		7770	80		10		10				NF		
		7790	80		20						NF		
		7820	70	20	10						NF		
		7830	60	20	10		10				NF		
		7850	70	20	10						NF		
		7870	90		10						NF		
		7880	60	30	10						NF		
		7900	80	10	10						NF		
		7910	60	20	20						NF		
		7920	80	10	10						NF		
		7930	60	20	10		10				NF		
		7940	70	10	10		10				NF		
		7950	60	20	10		10				NF		
		7960	70	20	10						NF		
		7980	70	10	10		10				NF		
		7990	70		20		10				NF		
		8000	70		10		10		10		NF		
		8010	70	10	10		10				NF		
		8020	70	10	20						NF		
		8030	80	20							NF		
		8040	60	20	10		10				NF		
		8060	80	10	10						NF		
		8070	70	10	10		10				NF		
		8080	60	20	10		10				NF		

Remarks BCK; 120 MAX FOR GAS; 2387 @ 7683 SHORT TRIP GAS; 2480 @ 7930
 PALEO; 7450 - 7710 PALEGREDA/SALINA FAUNA VERY POOR
 7710 - 7930 PG/SN FAUNA COMMON + BALCONES RWK TRACES

Last Modification 25/12/97 - 07:57:46

PETRO-TECH PERUANA S.A

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DAILY GEOLOGICAL REPORTWell **LO16-23**Date **24/12/97**Depth **7498** Drilled **263** 6 a.m. **7646** Days **22** Rig **PETREX-3**Formation **MOGOLLON** PO **DRILLING****SURVEYS**

M. Depth	V. Angle	True Direction		V. Depth	H. Section	Coordinates	
7313	39.20	S	58.40 W	5965.85	3591.41	S	1792.01 W 3112.53

LITHOLOGY		Clyst %	Shale %	Sist %	Sand %	Sst %	Cgl %	Dol %	Lim %	Fluor %	TG unit	C1 ppm
From	To											
7450	7460	80		20						NF		
	7470	80		10	20	10				5		
	7480	30		10	50	10				30-50		
	7490	70		10		20				NF		
	7500	70		20		10				NF		
	7510	60	10	20		10				5		
	7520	70	10	10		10				5		
	7530	60	10	10		10		10		5		
	7540	80		10		10				NF		
	7550	70		20		10				NF		
	7560	90		10						NF		
	7570	80		10		10				NF		
	7580	60		10	20	10				15		
	7590	50		10	20	20				15-30		
	7600	50		10	10	30				15		
	7610	70		10	10	10				5		
	7620	80		10		10				NF		
	7630	70		10		20				5		
	7640	70		10		20				5		

Remarks

BCK: 58 MAX FOR GAS; 240 @ 7458 SHORT TRIP GAS: 750 @ 7456

PALEO: 7060 - 7300 PALEGREDA/SALINA FAUNA ABUNDANT

7300 - 7450 PALEGREDA/SALINA FAUNA VP TO POOR.

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D. TECH PERUANA S.A.

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DAILY GEOLOGICAL REPORT

Well LO16-23

Date 24/12/97

Depth 7468 Drilled 263 6 a.m. 7646 Days 22 Rig PETREX-3
 Formation PO DRILLING

SURVEYS

M. Depth V. Angle True Direction V. Depth H. Section Coordinates
 7313 39.20 S 58.40 W 5965.85 3591.41 S 1792.01 W 3112.53

LITHOLOGY		Clyst %	Shale %	Silt %	Sand %	Sst %	Cgl %	Dol %	Lim %	Fluor %	TG unit	Cl pom
From	To											
7460	7460	80		20						NF		
	7460	30		10	50	10				30-50		
	7460	70		10		20				NF		
	7500	70		20		10				NF		
	7510	80	10	20		10				5		
	7520	70	10	10		10				5		
	7530	60	10	10		10		10		5		
	7540	80		10		10				NF		
	7550	70		20		10				NF		
	7560	90		10						NF		
	7570	80		10		10				NF		
	7580	60		10	20	10				15		
	7590	50		10	20	20				15-30		
	7600	50		10	10	30				15		
	7610	70		10	10	10				5		
	7620	80		10		10				NF		
	7630	70		10		20				5		
	7640	70		10		20				5		
	7470	60		10	20	10				5		

Remarks

BCK-53 MAX FOR GAS: 240 @ 7468 SHORT TRIP GAS: 750 @ 7468
 PALEO: 7080 - 7300 PALEGREDA/SALINA FAUNA ABUNDANT
 7300 - 7450 PALEGREDA/SALINA FAUNA VP TO POOR.

PETRO-TECH PERUANA S.A

DAILY GEOLOGICAL REPORT

Well	L016-23	aly	Sh	Silt	Sand	SS	Cgl	Del	Date	23/12/97
7190	80			10				10	NF	
7200	50		10	20		10		10	NF	
7210	80			10		10			NF	
7220	70			10		10		10	NF	
7240	70			20				10	NF	
7260	60			20		10		10	NF	
7270	70			20		10			NF	
7280	50		10	20		20			NF	
7290	70		10	10		10			NF	
7300	70			10		20			5	
7330	60			10		30			5-15	
7340	40			10	10	40			15-30	
7350	30			10	10	50			15	
7360	10			10	20	60			30	
7370	60			10		30			5-15	
7380	50			20		30			5-15	
7390	70		10			20			5-15	
7400	70		20			10			5	
7420	80			10		10			NF	
7430	70			20		10			NF	
7440	80			10				10	NF	
7450	70			10		10		10	NF	

Remarks BCK: 60 MAX FOR GAS: 251 @ 7088
PALEO: 6600 - 6820 PALEGREDA/SALINA FAUNA VERY POOR
6820 - 7080 PALEGREDA/SALINA FAUNA COMMON

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PETRO-TECH PERUANA S.A

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DAILY GEOLOGICAL REPORT

Well LO16-23

Date 07/01/98

Depth 10043 Drilled 116 8 a.m. 10043 Days 36 Rig PETREX-3

Formation B. SALINA PO POOH TO LOGGING

SURVEYS

M. Depth	V. Angle	True Direction	V. Depth	H. Section	Coordinates

LITHOLOGY		Clyst %	Shale %	Sist %	Sand %	Sst %	Cgl %	Dol %	Lim %	Fluor %	TG unit	Cl ppm
From	To											
9970	9975		80	10		10				NF		
	9980		70	10	10	10				5		
	9985		60	10	20	10				5		
	9990		80	10		10				NF		
	9995		70	10	10	10				5		
	10000		80	10		10				NF		
	10005		60	20		20				5		
	10010		80	10		10				NF		
	10020		80	10		10				NF		
	10035		70	20		10				NF		
	10040		80	10		10				NF		
	10043		70	20		10				NF		

Remarks BCK: 78 MAX FOR GAS: 253 @ 10020' CONEX. GAS: 306 @ 10013' SHORT TRIP GAS: 5500 @ 10012'

PALEO: 9910' - 9940' PG/SN FAUNA COMMON + BALC. RWK POOR

9940' - 10043' PG/SN FAUNA POOR + BALC. RWK VERY POOR.

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PETRO-TECH PERUANA S.A

DAILY GEOLOGICAL REPORT

Well LO16-23

Date 06/01/98

Depth	9927	Drilled	153	6 a.m.	9975	Days	35	Rig	PETREX-3			
Formation	B.SALINA		PO DRILLING									
SURVEYS												
M. Depth	V. Angle	True Direction		V. Depth	H. Section		Coordinates					
LITHOLOGY												
From	To	Clyst %	Shale %	Sist %	Sand %	Sst %	Cgl %	Dol %	Lim %	Fluor %	TG unit	C ₁ ppm
9805	9815		70	20		10				NF		
	9830		80	10		10				NF		
	9835		70	10		20				NF		
	9840		80	10		10				NF		
	9850		70	20		10				NF		
	9855		70	10		20				5		
	9860		80	10		10				NF		
	9875		90	10						NF		
	9880		80	10		10				NF		
	9890		90	10						NF		
	9905		80	10		10				NF		
	9915		90	10						NF		
	9925		80	10		10				NF		
	9950		90	10						NF		
	9965		80	10		10				NF		
	9970		70	10		20				5		

Remarks BCK:78-80 MAX FOR GAS:203@9857 SHORT TRIP GAS: 2778 @ 9774 CONEX. GAS: 147@9918
PALEO: 9760 - 9910 PG/SN FAUNA POOR TO COMMON + BAL. RWK POOR

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PETRO-TECH PERUANA S.A

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DAILY GEOLOGICAL REPORT

Well LO16-23

Date 05/01/98

Depth 9774 Drilled 148 6 a.m. 9812 Days 34 Rig PETREX-3
Formation B.SALINA PO DRILLING

SURVEYS

M. Depth	V. Angle	True Direction	V. Depth	H. Section	Coordinates

LITHOLOGY		Clyst %	Shale %	Sist %	Sand %	Sst %	Cgl %	Dol %	Lim %	Fluor %	TG unit	C1 ppm
From	To											
9655	9660		80	10		10				NF		
	9665		70	10		20				NF		
	9675		80	10		10				NF		
	9685		70	20		10				NF		
	9690		80	10		10				NF		
	9695		70	20		10				5		
	9700		70	20		10				NF		
	9705		80	10		10				NF		
	9710		70	10		20				5		
	9715		80	10		10				NF		
	9720		90	10						NF		
	9730		80	10		10				NF		
	9740		90	10						NF		
	9750		80	10		10				NF		
	9755		70	10	10	10				NF		
	9765		80	10		10				NF		
	9775		70	20		10				NF		
	9800		90	10						NF		
	9805		80	10		10				NF		

Remarks BCK: 80 MAX FOR GAS: 114 @ 9753' CONEX. GAS: 381 @ 9762' AND 265 @ 9731'

PALEO: 9610' - 9710' PG/SN FAUNA POOR TO C. + BALC. RWK TRACES TO VP.

9710' - 9760' PG/SN FAUNA VERY POOR + BALC. RWK TRACES.

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DEPARTAMENTO/DEPT.		TELEFONO/PHONE #	
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DAILY GEOLOGICAL REPORT

Well **LO16-23**

Date **04/01/98**

Depth 9626	Drilled 131	6 a.m. 9664	Days 33	Rig PETREX-3
Formation B.SALINA	PO DRILLING			

SURVEYS					
M. Depth	V. Angle	True Direction	V. Depth	H. Section	Coordinates

LITHOLOGY		Clyst %	Shale %	Silt %	Sand %	Set %	Cgl %	Dol %	Lim %	Fluor %	TG unit	Ci ppm
From	To											
9525	9535		70	20		10				NF		
	9540		70	10		20				5		
	9545		70	10		20				5		
	9550		80	10		10				NF		
	9555		70	10		20				5		
	9565		80	10		10				NF		
	9570		70	10		20				5		
	9585		80	10		10				NF		
	9590		70	10		20				5		
	9595		80	10		10				NF		
	9610		90	10						NF		
	9615		80	10		10				NF		
	9620		90	10						NF		
	9645		80	10		10				NF		
	9655		70	20		10				NF		

Remarks **BCK: 70 MAX FOR GAS: 118 @ 9530 CONEX. GAS: 1143 @ 9602**
PALEO: 9480 - 9540 PG/SN FAUNA POOR + BALC. RWK TRACES
9540 - 9580 PG/SN FAUNA ABUNDANT + BALC. RWK POOR
9580 - 9610 PG/SN FAUNA POOR + BALC. RWK TRACE

99 @ 6 P/h

17,184 ↑ *Lositos* 6014-19

LST DOLO SH SILTS SS SD NR FL

DAILY GEOLOGICAL REPORT

Well **LO16-23**

Date **03/01/98**

Depth **9495** Drilled **75** 6 a.m. **9530** Days **32** Rig **PETREX-3**

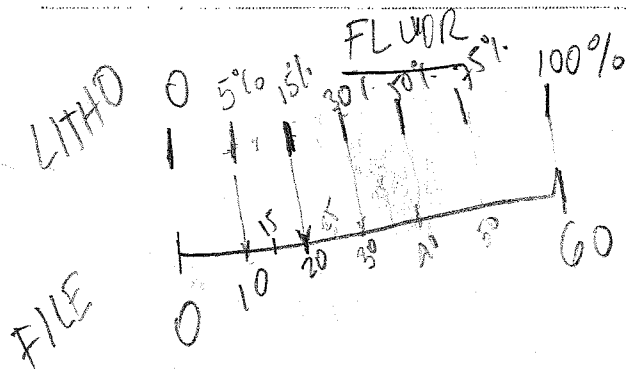
Formation **B.SALINA** PO **DRILLING**

SURVEYS

M. Depth	V. Angle	True Direction	V. Depth	H. Section	Coordinates

LITHOLOGY	To	Clyst %	Shale %	Silt %	Sand %	Sst %	Cgl %	Dol %	Lim %	Fluor %	TG unit	Ci ppm
9436	9440		60		20	20				5		
9441	9445		50		20	30				5-15		
9445	9450		30		50	20				5-15		
	9455		30		40	30				15-30		
	9460		40		30	30				15		
	9465		60		20	20				15		
	9475		60		10	30				5-15		
	9485		70		10	20				5		
	9490		80			20				5		
	9495		80	10		10				NF		
	9500		80		10	10				5		
	9505		80			20				5		
	9510		80		10	10				5		
	9525		80	10		10				NF		

Remarks **BCK 70 MAX FOR GAS: 450 @ 9445 TRIP GAS: 450 @ 9436**
PALEO: 9400 - 9480 PG/SN FAUNA TRACES.



LO16-23
9310

LO16-14
- 9920

Tripe 9436 Near.

φ_g = 7 f/h

1892 Comedat

new 9929475

LMST

DOLO

SH

SILTS

SS

SD NR FL

DAILY GEOLOGICAL REPORT

Well **LO16-23**Date **01/01/98**Depth **9268** Drilled **156** 6 a.m. **9307** Days **30** Rig **PETREX-3**Formation **B. SALINA** PO **DRILLING**

SURVEYS

M. Depth	V. Angle	True Direction	V. Depth	H. Section	Coordinates

LITHOLOGY		Clyst %	Shale %	Sist %	Sand %	Sst %	Cgl %	Dol %	Lim %	Fluor %	TG unit	C ₁ ppm
From	To											
9140	9145		70	20		10				NF		
	9150		80	10		10				5		
	9155		80	10		10				NF		
	9160		90	10						NF		
	9165		80	10		10				NF		
	9170		80	10		10				NF		
	9175		90			10				5		
	9180		90	10						NF		
	9185		80	10		10				NF		
	9190		70	20		10				NF		
	9195		80	10		10				NF		
	9200		70	10		20				5		
	9205		80	10		10				NF		
	9215		90	10						NF		
	9220		80	10		10				NF		
	9225		70	20		10				NF		
	9235		80	10		10				NF		
	9250		90	10						NF		
	9260		80	10		10				NF		
	9270		90	10						NF		
	9285		80	10		10				NF		
	9300		70	20		10				NF		

Remarks **BCK: 90 MAX FOR GAS: 143 @ 9228' SHORT TRIP GAS: 450 @ 9260'****PALEO: 9070 - 9105 PG/SN FAUNA COMMON + BALC. RWK TRACES****9105 - 9250 PG/SN FAUNA ABUNDANT + BALC. RWK POOR TO COMMON.**

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