

INFORMACION DEL POZO

NOMBRE DEL POZO	:LO 16-14
PLATAFORMA	:D LO16
CAMPO	:LOBITOS
AREA	:TALARA
PAIS	:PERU
BLOQUE	Z2B
SECTOR	21 008
TIPO	SLANT
COORD. SUPERFICIE	90506365.6 mts N 459708.32 mts E
COORD.OBJETIVO	90506130.00 mts N 458300.00 mts E

INFORMACION GENERAL

PROYECTO	:PROGRAMA PERFORACION 95
POZO	:LO 16 14
ING. DIRECCIONAL	:GLAUCO IPARAGUIRRE
ING. DIRECCIONAL	:JOSE FRAIJA
OPERADOR MWD	:TIM ZENIUK
OPERADOR MWD	:EDWIN HUAMAN
CONTRATISTA PERFORACION	:PEPESA
COMPAÑIA OPERADORA	:PETROTECH
RIG	:P-40
PUSHERS	J.BUSTOS , D.MOGOLLON
DISTRITO	TALARA
SUPERVISOR ANADRILL	MIGUEL DI SIERVO

ANADRILL / SCHLUMBERGER

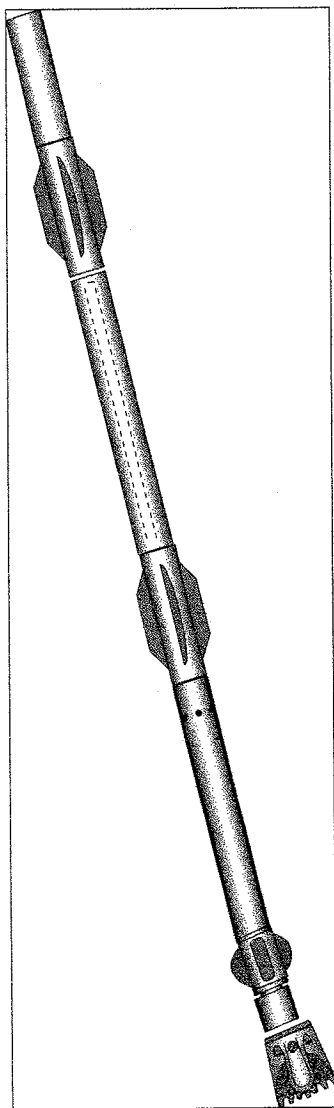
Report of Survey

Minimum Curvature Method

MEASURED DEPTH	INCL.	DIRECTION	VERTICAL DEPTH	VERTICAL SECTION	R E C T A N G U L A R C O O R D I N A T E S		DLS Deg/100'
600.00	0	N 0.00 E	600.00	0	0	0	
Inicio de KOP 3*/100'							
700.00	3.00	S 80.50 W	699.95	2.62	.43 S	2.58 W	3.00
800.00	6.00	S 80.50 W	799.63	10.46	1.73 S	10.32 W	3.00
900.00	9.00	S 80.50 W	898.77	23.51	3.88 S	23.19 W	3.00
1000.00	12.00	S 80.50 W	997.08	41.73	6.89 S	41.16 W	3.00
1100.00	15.00	S 80.50 W	1094.31	65.08	10.74 S	64.18 W	3.00
1200.00	18.00	S 80.50 W	1190.18	93.47	15.42 S	92.19 W	3.00
1300.00	21.00	S 80.50 W	1284.43	126.85	20.93 S	125.11 W	3.00
1400.00	24.00	S 80.50 W	1376.81	165.12	27.24 S	162.85 W	3.00
1500.00	27.00	S 80.50 W	1467.06	208.16	34.35 S	205.31 W	3.00
1600.00	30.00	S 80.50 W	1554.93	255.87	42.22 S	252.37 W	3.00
1700.00	33.00	S 80.50 W	1640.18	308.12	50.84 S	303.89 W	3.00
1800.00	36.00	S 80.50 W	1722.59	364.75	60.18 S	359.75 W	3.00
1900.00	39.00	S 80.50 W	1801.91	425.62	70.23 S	419.79 W	3.00
1991.08	41.73	S 80.50 W	1871.30	484.60	79.96 S	477.96 W	3.00
Fin KOP							
2491.08	41.73	S 80.50 W	2244.44	817.43	134.87 S	806.22 W	0
2991.08	41.73	S 80.50 W	2617.57	1150.25	189.79 S	1134.49 W	0
3491.08	41.73	S 80.50 W	2990.70	1483.07	244.70 S	1462.75 W	0
3991.08	41.73	S 80.50 W	3363.84	1815.90	299.62 S	1791.01 W	0
4491.08	41.73	S 80.50 W	3736.97	2148.72	354.53 S	2119.27 W	0
4991.08	41.73	S 80.50 W	4110.10	2481.55	409.45 S	2447.53 W	0
5491.08	41.73	S 80.50 W	4483.24	2814.37	464.36 S	2775.80 W	0
5991.08	41.73	S 80.50 W	4856.37	3147.19	519.28 S	3104.06 W	0
6491.08	41.73	S 80.50 W	5229.50	3480.02	574.19 S	3432.32 W	0
6991.08	41.73	S 80.50 W	5602.64	3812.84	629.10 S	3760.58 W	0
7491.08	41.73	S 80.50 W	5975.77	4145.66	684.02 S	4088.84 W	0
7991.08	41.73	S 80.50 W	6348.90	4478.49	738.93 S	4417.11 W	0
8300.79	41.73	S 80.50 W	6580.03	4684.65	772.95 S	4620.44 W	0
Objetivo							
9333.60	41.73	S 80.50 W	7350.78	5372.13	886.38 S	5298.50 W	0
Base Objetivo							
9533.60	41.73	S 80.50 W	7500.04	5505.26	908.35 S	5429.81 W	0
Prof. Final							

Final location: 5505.26 feet at S 80.50 W
Plane of Vertical Section: 260.50 degrees

BHA'S USADOS



ANADRILL		Bottom Hole Assembly		PETRO TECH PERUANA S.A.				
Schlumberger								
STRUCTURE:		Z 2B-21-008-D-LO16		SLOT 14		MOTOR ASSY.		
JSO:		Depth in: 471		Depth out: 2005		BHA # 1		
Item	Description	Vendor	Serial #	F. N.	OD/ID	Conn.	Length	Cum Length
1	BIT 17 1/2 : X3A Jets : 3 X 20	HUGHES	S95BS		17 1/2	-		
						7 5/8R	1.50	1.50
2	BIT SUB	ANADRILL	-		8	7 5/8R		
					2 3/4	6 5/8R	1.10	2.60
3	MOTOR POWER PAK B/H set @ 1.15	ANADRILL	1122		8	6 5/8R		
						6 5/8R	23.63	26.23
4	UBHO w / MULE SHOE	ANADRILL	9853-3		6 1/2	6 5/8R		
					2 1/2	6 5/8R	2.28	28.51
5	MONEL w / MWD	ANADRILL	64304945		6 1/2	6 5/8R		
					2 11/16	6 5/8R	30.99	59.50
6	STG. STB. 8 1/2'	ANADRILL	625		6 1/8	6 5/8R		
					2 11/16	6 5/8R	5.09	64.59
7	MONEL	ANADRILL	65004		6 1/8	6 5/8R		
					2 11/16	6 5/8R	31.47	96.06
8	3 DC	PEPESA	-		8	6 5/8R		
					2 7/8	6 5/8R	92.59	188.65
9	FLEX JOINT	PEPESA	-		6	6 5/8R		
					2 7/8	6 5/8R	8.80	197.45
10	JAR EQ	ANADRILL	123214		6 1/8	6 5/8R		
					2 3/16	6 5/8R	23.20	220.65
11	CROSSOVER	PEPESA			6 1/8	6 5/8R		
					2 3/4	4 1/2 IF	83.20	303.85
12	3 DC				6 1/8	4 1/2IF		
					2 7/8	4 1/2IF	88.90	392.75
13								
14								
15								
Rig:	PEPESA # 40	FOOTAGE:	1534.00	SPP on:	1900	PSI	Inc Start:	0°
Push:	HUGO MUNAR	Drig Hrs:	49.50	SPP off:		PSI	Inc End:	41.5°
Push:	OMAR VILLABLANCA	Av. ROP:		WOB:	40	KLBS	Azi. Start:	0°
Day in	6-Mar-95	Rotating ft:		RPM:	60		Azi. End:	275.09°
Out:	11-Mar-95	Rotating Hrs:		Bit RPM:	130		BUR Plan:	3.0 deg./100 ft
DD:	KELLY SCHULTZ	Steering ft:		VOLUME:	617	GPM	DRLG FLD:	FLOPRO
Slim1:	IVAN KATIC	Steering Hrs:		Adj.Hsg°:	1.15		Co.Rep:	M. VILLASECA
Slim1:	EDWIN HUAMAN	Lock Nut OD:	N/A	Surv. Pt:	46.00	FEET	Co.Rep:	H. CONCHA
BHA expected behavior:		Do the build section @ 41.73° inclination and 260.5° azimuth						
BHA actual behavior:		Build section done without problems						
Comments:		POOH to change bit at 1405'						
Last Casing or Liner:								

ANADRILL		Bottom Hole Assembly							PETRO TECH PERUANA S.A.	
Schlumberger										
STRUCTURE:		Z 2B-21-008-D-LO16			SLOT 14		SLAND ASSY.			
JSO: 5		Depth in: 2005		Depth out 3268				BHA# 2		
Item	Description	Vendor	Serial #	F. N.	OD / ID	Conn.	Length	Cum Length		
1	BIT : ATJ - C1S JETS : 2x15 - 2x18	HTC	X70BB		12 1/4		1.50	1.50		
						6 5/8 REG				
2	NB. STB. 12 1/4"	ANADRILL	9857-11		7 15/16	6 5/8 REG	5.88	7.38		
						6 5/8 REG				
3	SDC	ANADRILL	9850-4		8	6 5/8 REG	5.58	12.96		
					3	6 5/8 REG				
4	STG. STB. 12 3/16	ANADRILL	O18		7 11/16	6 5/8 REG	3.90	16.86		
					2 13/16	6 5/8 REG				
5	UBHO w / MULE SHOE	ANADRILL	9651-1		8	6 5/8 REG	2.27	19.13		
					2 13/16	6 5/8 REG				
6	MONEL w / MWD	ANADRILL	453		7 3/4	6 5/8 REG	31.48	50.61		
					2 13/16	6 5/8 REG				
7	STG. STB. 12 1/4	ANADRILL	9857-4		8	6 5/8 REG	5.51	56.12		
					2 7/8	6 5/8 REG				
8	MONEL	ANADRILL	7365		7 15/16	6 5/8 REG	30.78	86.90		
					2 13/16	6 5/8 REG				
9	FLEX JOINT	ANADRILL	125248		5 15/16	6 5/8 REG	8.80	95.70		
					2 3/4	6 5/8 REG				
10	EQ Jar UP @ 70 DN @ 28	ANADRILL	123274		6	6 5/8 REG	23.19	118.89		
					2 3/16	6 5/8 REG				
11	CROSSOVER	PEPESA		7 1/2	6 1/4	6 5/8 REG	2.60	121.49		
					2 7/8	4 1/2 XH				
12	DCs	PEPESA			6 1/8	4 1/2 XH	89.02	210.51		
					2 7/8	4 1/2 XH				
13	HWs	PEPESA			4 1/2	4 1/2 XH	1178.72	1389.23		
					2 7/8	4 1/2 XH				
14										
15										
Rig: PEPESA # 40		FOOTAGE: 1263.00		SPP on: 2200 PSI		Inc Start: 41.80				
Push: HUGO MUNAR		Drig Hrs: 28.00		SPP off: 2200 PSI		Inc End: 43.90				
Push: OMAR VILLABLANCA		Av. ROP: 45.11		WOB: 20/30 KLBS		Azi. Start: 255.00				
Day in 20-Feb-95		Rotating ft: 1263.00		RPM: 80/120		Azi. End: 259.70				
Out: 23-Feb-95		Rotating Hrs: 45.11		Bit RPM: 80/120		BUR Plan: 0				
DD: GLAUCO IPARRAGUIRRE		Steering ft: 0.00		VOLUME: 660 GPM		DRLG FLD: FLOPRO				
Slim1: CARLOS ARIAS		Steering Hrs: 0.00		Adj.Hsg°: 0.00		Co.Rep: M. VILLASECA				
Slim1: EDWIN HUAMAN		Lock Nut OD: N/A		Surv. Pt: 40.00 FEET		Co.Rep: O. PACHAS				
BHA expected behavior:		SLANT ASSY, NOT BUILD AND NOT TURN								
BHA actual behavior:		THIS ASSY FIRST NOT BUILD AND WHEN CHANGE THE FORMATION START TO BUILD.								
Comments:		Drilled 65 ft. of cement from 1939' @ 2005'								
		Drill sland and then start to build when change the formation								
		POOH for change the bit								
Last Casing or Liner:		13 3/8" Casing set @ 2003'.								
Bit Condition:		2-2-1								

ANADRILL		Bottom Hole Assembly							PETRO TECH . ERUANA S.A.	
Schlumberger										
STRUCTURE:		Z 2B-21-008-D-LO16			SLOT 14		SLAND ASSY.			
JSO: 6		Depth in: 3268		Depth out 4281				BHA# 3		
Item	Description	Vendor	Serial #	F. N.	OD / ID	Conn.	Length	Cum Length		
1	BIT : DS61HF 5x15 jets	HYCLOG	16014		12 1/4		1.50	1.50		
						6 5/8 REG				
2	NB. STB. 12 1/4"	ANADRILL	9857-11		7 15/16	6 5/8 REG	5.88	7.38		
						6 5/8 REG				
3	SDC	ANADRILL	9850-4		8	6 5/8 REG	5.58	12.96		
					3	6 5/8 REG				
4	STG. STB. 12 1/4	ANADRILL	9857-3		7 15/16	6 5/8 REG	5.54	18.50		
					2 7/8	6 5/8 REG				
5	UBHO w / MULE SHOE	ANADRILL	9651-1		8	6 5/8 REG	2.27	20.77		
					2 13/16	6 5/8 REG				
6	MONEL w / MWD	ANADRILL	453		7 3/4	6 5/8 REG	31.48	52.25		
					2 13/16	6 5/8 REG				
7	STG. STB. 12 1/4	ANADRILL	9857-4		8	6 5/8 REG	5.51	57.76		
					2 7/8	6 5/8 REG				
8	MONEL	ANADRILL	7365		7 15/16	6 5/8 REG	30.78	88.54		
					2 13/16	6 5/8 REG				
9	FLEX JOINT	ANADRILL	125248		5 15/16	6 5/8 REG	8.80	97.34		
					2 3/4	6 5/8 REG				
10	EQ Jar UP @ 70 DN @ 28	ANADRILL	123274		6	6 5/8 REG	23.19	120.53		
					2 3/16	6 5/8 REG				
11	CROSSOVER	PEPESA		7 1/2	6 1/4	6 5/8 REG	2.60	123.13		
					2 7/8	4 1/2 XH				
12	3 DCs	PEPESA			6 1/8	4 1/2 XH	89.02	212.15		
					2 7/8	4 1/2 XH				
13	27 HWs	PEPESA			4 1/2	4 1/2 XH	816.29	1028.44		
					2 7/8	4 1/2 XH				
14										
15										
Rig: PEPESA # 40		FOOTAGE: 1013.00		SPP on: 2200 PSI		Inc Start: 43.9°				
Push: HUGO MUNAR		Drlg Hrs: 20.00		SPP off: 2200 PSI		Inc End: 38.6°				
Push: OMAR VILLABLANCA		Av. ROP: 50.65		WOB: 20/30 KLBS		Azi. Start: 259.7°				
Day in 23-Feb-95		Rotating ft: 1013.00		RPM: 80/120		Azi. End: 259.7°				
Out: 24-Feb-95		Rotating Hrs: 20.00		Bit RPM: 80/120		BUR Plan: 0				
DD: GLAUCO IPARRAGUIRRE		Steering ft: 0.00		VOLUME: 660 GPM		DRLG FLD: FLOPRO				
Slim1: PATRICK OSMOND		Steering Hrs: 0.00		Adj.Hsg°: 0.00		Co.Rep: M. VILLASECA				
Slim1: EDWIN HUAMAN		Lock Nut OD: N/A		Surv. Pt: 40.00 FEET		Co.Rep: O. PACHAS				
		Slant assy, little drop								
BHA actual behavior:		Dropped 0.52°/100' and no turn								
Comments:		Stabilizers came with normal wear								
		POOH for : Change 2nd stabilizer								
Last Casing or Liner:		13 3/8" Casing set @ 2003'.								
Bit Condition:										

ANADRILL		Bottom Hole Assembly		PETRO TECH. ERUANA S.A.				
Schlumberger								
STRUCTURE:		Z 2B-21-008-D-LO16		SLOT 14		SLAND ASSY.		
JSO:	6	Depth in:	4281	Depth out	4533	BHA# 4		
Item	Description	Vendor	Serial #	F. N.	OD / ID	Conn.	Length	Cum Length
1	BIT : DS61HF 5x16	HYCLOG	16014		12 1/4	6 5/8 REG	1.50	1.50
2	NB. STB. 12 1/4"	ANADRILL	9857-11		7 15/16	6 5/8 REG	5.88	7.38
3	SDC	ANADRILL	9850-4		8	6 5/8 REG	5.58	12.96
4	STG. STB. 12 3/16	ANADRILL	O18		7 11/16	6 5/8 REG	3.90	16.86
5	UBHO w / MULE SHOE	ANADRILL	9651-1		8	6 5/8 REG	2.27	19.13
6	MONEL w / MWD	ANADRILL	453		7 3/4	6 5/8 REG	31.48	50.61
7	STG. STB. 12 1/4	ANADRILL	9857-4		8	6 5/8 REG	5.51	56.12
8	MONEL	ANADRILL	7365		7 15/16	6 5/8 REG	30.78	86.90
9	FLEX JOINT	ANADRILL	125248		5 15/16	6 5/8 REG	8.80	95.70
10	EQ Jar UP @ 70 DN @ 28	ANADRILL	123274		6	6 5/8 REG	23.19	118.89
11	CROSS OVER	PEPESA		7 1/2	6 1/4	6 5/8 REG	2.60	121.49
12	3 DCs	PEPESA			6 1/8	4 1/2 XH	89.02	210.51
13	27 HWs	PEPESA			4 1/2	4 1/2 XH	816.29	1026.80
14								
15								
Rig:	PEPESA # 40	FOOTAGE:	252.00	SPP on:	2400	PSI	Inc Start:	38.6°
Push:	HUGO MUNAR	Drig Hrs:	3.50	SPP off:	-	PSI	Inc End:	36.7°
Push:	OMAR VILLABLANCA	Av. ROP:	72.00	WOB:	14	kLBS	Azi. Start:	259.7°
Day in	24-Feb-95	Rotating ft:	252.00	RPM:	110		Azi. End:	259.7°
Out:	25-Feb-95	Rotating Hrs:	3.50	Bit RPM:	-		BUR Plan:	0
DD:	JOSE FRAIJA	Steering ft:	0.00	VOLUME:	667	GPM	DRLG FLD:	FLOPRO
Slim1:	PATRICK OSMOND	Steering Hrs:	0.00	Adj.Hsg°:	0.00		Co.Rep:	M. VILLASECA
Slim1:	EDWIN HUAMAN	Lock Nut OD:	N/A	Surv. Pt:	40.00	FEET	Co.Rep:	O. PACHAS
BHA expected behavior:		Build Smoothly						
BHA actual behavior:		Dropped 0.75°/100'. No turn.						
Comments:		Stabilizers came with normal wear						
Last Casing or Liner:		13 3/8" Casing set @ 2003'.						
Bit Condition:								

ANADRILL		Bottom Hole Assembly		PETRO TECH PERUANA S.A.				
Schlumberger								
STRUCTURE:		Z 2B-21-008-D-LO16			SLOT 14		SLAND ASSY.	
JSO: 6		Depth in: 4533		Depth out 5161		BHA# 5		
Item	Description	Vendor	Serial #	F. N.	OD / ID	Conn.	Length	Cum Length
1	BIT : DS61HF 5x16	HYCLOG	16014		12 1/4		1.50	
						6 5/8 REG		1.50
2	NB. STB. 12 1/4"	ANADRILL	9857-11		7 15/16	6 5/8 REG	5.88	
						6 5/8 REG		7.38
3	SDC	ANADRILL	9850-8		8 1/16	6 5/8 REG	11.57	
					2 15/16	6 5/8 REG		18.95
4	UBHO w / MULE SHOE	ANADRILL	9651-1		8	6 5/8 REG	2.27	
					2 13/16	6 5/8 REG		21.22
5	MONEL w / MWD-Slim 1	ANADRILL	453		7 3/4	6 5/8 REG	31.48	
					2 13/16	6 5/8 REG		52.70
6	STG. STB 12 3/16	ANADRILL	O18		7 11/16	6 5/8 REG	3.90	
					2 13/16	6 5/8 REG		56.60
7	MONEL	ANADRILL	7365		7 15/16	6 5/8 REG	30.78	
					2 13/16	6 5/8 REG		87.38
8	STG. STB. 12 1/4	ANADRILL	9857-4		8	6 5/8 REG	5.51	
					2 7/8	6 5/8 REG		92.89
9	FLEX JOINT	ANADRILL	125248		5 15/16	6 5/8 REG	8.80	
					2 3/4	6 5/8 REG		101.69
10	EQ Jar UP @ 70 DN @ 28	ANADRILL	123274		6	6 5/8 REG	23.19	
					2 3/16	6 5/8 REG		124.88
11	CROSS OVER	PEPESA		7 1/2	6 1/4	6 5/8 REG	2.60	
					2 7/8	4 1/2 XH		127.48
12	3 DCs	PEPESA			6 1/8	4 1/2 XH	89.02	
					2 7/8	4 1/2 XH		216.50
13	27 HWs	PEPESA			4 1/2	4 1/2 XH	816.29	
					2 7/8	4 1/2 XH		1032.79
14								
15								
Rig: PEPESA # 40		FOOTAGE: 628.00		SPP on: 2600 PSI		Inc Start: 36.7°		
Push: HUGO MUNAR		Drig Hrs: 9.00		SPP off: - PSI		Inc End: 44.3°		
Push: OMAR VILLABLANCA		Av. ROP: 70.00		WOB: 8\12 kLBS		Azi. Start: 259.7°		
Day in 25-Feb-95		Rotating ft: 628.00		RPM: 135		Azi. End: 263.3°		
Out: 26-Feb-95		Rotating Hrs: 9.00		Bit RPM: -		BUR Plan: 0		
DD: JOSE FRAIJA		Steering ft: 0.00		VOLUME: 631 GPM		DRLG FLD: FLOPRO		
Slim1: PATRICK OSMOND		Steering Hrs: 0.00		Adj.Hsg°: 0.00		Co.Rep: M. VILLASECA		
Slim1: EDWIN HUAMAN		Lock Nut OD: N/A		Surv. Pt: 42.00 FEET		Co.Rep: O. PACHAS		
BHA expected behavior:		Build Smoothly and hold direction						
BHA actual behavior:		Builted strongly: 1.2°/100' ; and turned right: 0.57°/100'.						
Comments:		Stabilizers came with normal wear						
Last Casing or Liner:		13 3/8" Casing set @ 2003'.						
Bit Condition:								

ANADRILL		Bottom Hole Assembly		PETRO TECH PERUANA S.A.				
Schlumberger								
STRUCTURE:		Z 2B-21-008-D-LO16		SLOT 14		SLAND ASSY.		
JSO:	6	Depth in:	5161	Depth out	5605	BHA# 6		
Item	Description	Vendor	Serial #	F. N.	OD / ID	Conn.	Length	Cum Length
1	BIT : DS61HF 5x15 jets	HYCLOG	16014		12 1/4			
						6 5/8 REG	1.50	1.50
2	NB. STB. 12 1/4"	ANADRILL	9857-11		7 15/16	6 5/8 REG		
						6 5/8 REG	5.88	7.38
3	SDC	ANADRILL	9850-4		8	6 5/8 REG		
					3	6 5/8 REG	5.58	12.96
4	STG. STB. 12 1/4	ANADRILL	9857-3		7 15/16	6 5/8 REG		
					2 7/8	6 5/8 REG	5.54	18.50
5	UBHO w / MULE SHOE	ANADRILL	9651-1		8	6 5/8 REG		
					2 13/16	6 5/8 REG	2.27	20.77
6	MONEL w / MWD	ANADRILL	453		7 3/4	6 5/8 REG		
					2 13/16	6 5/8 REG	31.48	52.25
7	STG. STB. 12 1/4	ANADRILL	9857-4		8	6 5/8 REG		
					2 7/8	6 5/8 REG	5.51	57.76
8	MONEL	ANADRILL	7365		7 15/16	6 5/8 REG		
					2 13/16	6 5/8 REG	30.78	88.54
9	FLEX JOINT	ANADRILL	125248		5 15/16	6 5/8 REG		
					2 3/4	6 5/8 REG	8.80	97.34
10	EQ Jar UP @ 70 DN @ 28	ANADRILL	123274		6	6 5/8 REG		
					2 3/16	6 5/8 REG	23.19	120.53
11	CROSS OVER	PEPESA		7 1/2	6 1/4	6 5/8 REG		
					2 7/8	4 1/2 XH	2.60	123.13
12	3 DCs	PEPESA			6 1/8	4 1/2 XH		
					2 7/8	4 1/2 XH	89.02	212.15
13	27 HWs	PEPESA			4 1/2	4 1/2 XH		
					2 7/8	4 1/2 XH	816.29	1028.44
14								
15								
Rig:	PEPESA # 40	FOOTAGE:	444.00	SPP on:	PSI	Inc Start:	44.3°	
Push:	HUGO MUNAR	Drlg Hrs:		SPP off:	PSI	Inc End:	43.2°	
Push:	OMAR VILLABLANCA	Av. ROP:		WOB:	KLBS	Azi. Start:	263.3°	
Day in	26-Feb-95	Rotating ft:	444.00	RPM:		Azi. End:	264°	
Out:	28-Feb-95	Rotating Hrs:		Bit RPM:		BUR Plan:	0	
DD:	JOSE FRAIJA	Steering ft:	0.00	VOLUME:	GPM	DRLG FLD:	FLOPRO	
Slim1:	PATRICK OSMOND	Steering Hrs:	0.00	Adj.Hsg°:	0.00	Co.Rep:	M. VILLASECA	
Slim1:	EDWIN HUAMAN	Lock Nut OD:	N/A	Surv. Pt:	40.00 FEET	Co.Rep:	O. PACHAS	
BHA expected behavior:		Hold direction and inclination						
BHA actual behavior:		Dropp a little, 0.24°/100' ; and turn righth 0.17°/100'						
Comments:								
Last Casing or Liner:		13 3/8" Casing set @ 2003'.						
Bit Condition:								

ANADRILL		Bottom Hole Assembly		PETRO TECH PERUANA S.A.				
Schlumberger								
STRUCTURE:		Z 2B-21-008-D-LO16		SLOT 14		SLAND ASSY.		
JSO:		Depth in: 5605		Depth out: 6007		BHA# 7		
Item	Description	Vendor	Serial #	F. N.	OD/ID	Conn.	Length	Cum Length
1	BIT 8 1/2 : ATJ - M1S Jets : 2x14, 1x16	HUGHES	X93BT		8 1/2	-		
						4 1/2 R	1.00	1.00
2	NB. STB. 8 1/2'	ANADRILL	605		6 1/2	4 1/2 R		
					2 3/4	4 1/2 IF	5.28	6.28
3	SDC	ANADRILL	985126		6 1/2	4 1/2 IF		
					2 3/4	4 1/2 IF	5.60	11.88
4	STG. STB. 8 3/8'	ANADRILL	74628		6 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	4.06	15.94
5	UBHO w / MULE SHOE	ANADRILL	9853-3		6 1/2	4 1/2 IF		
					2 1/2	4 1/2 IF	2.33	18.27
6	MONEL w / MWD	ANADRILL	64304945		6 1/2	4 1/2 IF		
					2 11/16	4 1/2 IF	29.54	47.81
7	STG. STB. 8 1/2'	ANADRILL	625		6 1/8	4 1/2 IF		
					2 11/16	4 1/2 IF	4.30	52.11
8	MONEL	ANADRILL	65004		6 1/8	4 1/2 IF		
					2 11/16	4 1/2 IF	28.56	80.67
9	1 DC 6 1/2'	PEPESA	-		6 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	28.23	108.90
10	5 HW	PEPESA	-		4 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	150.78	259.68
11	JAR MEC	BOWEN	W/S.N		6 1/8	4 1/2 IF		
					2 3/4	4 1/2 IF	16.80	276.48
12	JAR HYDRA	BOWEN	68183007		6 1/8	4 1/2 IF		
					2 3/4	4 1/2 IF	18.10	294.58
13	38 HW	PEPESA			4 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	1148.54	1443.12
14								
15								
Rig:	PEPESA # 40	FOOTAGE:	402.00	SPP on:	2200	PSI	Inc Start:	43.2°
Push:	HUGOMUNAR	Drig Hrs:	18.00	SPP off:	-	PSI	Inc End:	42.5°
Push:	OMAR VILLABLANCA	Av. ROP:	22.33	WOB:	25/30	KLBS	Azi. Start:	264°
Day in	28-Feb-95	Rotating ft:	402.00	RPM:	140		Azi. End:	267.5°
Out:	2-Mar-95	Rotating Hrs:	18.00	Bit RPM:	-		BUR Plan:	0
DD:	JOSE FRAIJA	Steering ft:	-	VOLUME:	400	GPM	DRLG FLD:	FLOPRO
Slim1:	PATRICK OSMONT	Steering Hrs:	-	Adj.Hsg°:			Co.Rep:	M. VILLASECA
Slim1:	EDWIN HUAMAN	Lock Nut OD:	N/A	Surv. Pt:	32.00	FEET	Co.Rep:	O. PACHAS
BHA expected behavior:		Hold direction and inclination						
BHA actual behavior:		Turn to the right: 0.9°/100', and drop a little						
Comments:		This BHA is to drill float shoe, cement and new formation.						
Last Casing or Liner:		13 3/8" Casing set @ 2003'.						
Bit Condition:		2-2-I						

ANADRILL		Bottom Hole Assembly		PETRO TECH PERUANA S.A.				
Schlumberger								
STRUCTURE:		Z 2B-21-008-D-LO16		SLOT 14		SLAND ASSY.		
JSO:		Depth in:	6007	Depth out:	6318	BHA # 8		
Item	Description	Vendor	Serial #	F. N.	OD/ID	Conn.	Length	Cum Length
1	BIT 8 1/2 : ATJ -05 Jets : 3 X 16/32	HUGHES	N67BV		8 1/2	-		
						4 1/2 R	1.00	1.00
2	MOTOR POWERPAK B/H set @1.15	ANADRILL	675A4548		6 3/4	4 1/2 R		
						4 1/2 IF	21.18	22.18
3	STG. STB. 8 3/8'	ANADRILL	74628		6 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	4.06	26.24
4	UBHO w / MULE SHOE	ANADRILL	9853-3		6 1/2	4 1/2 IF		
					2 1/2	4 1/2 IF	2.33	28.57
5	MONEL w / MWD	ANADRILL	64304945		6 1/2	4 1/2 IF		
					2 11/16	4 1/2 IF	29.54	58.11
6	STG. STB. 8 1/2'	ANADRILL	625		6 1/8	4 1/2 IF		
					2 11/16	4 1/2 IF	4.30	62.41
7	MONEL	ANADRILL	65004		6 1/8	4 1/2 IF		
					2 11/16	4 1/2 IF	28.56	90.97
8	1 DC 6 1/2'	PEPESA	-		6 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	28.23	119.20
9	5 HW	PEPESA	-		4 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	150.78	269.98
10	JAR MEC	BOWEN	W/S.N		6 1/8	4 1/2 IF		
					2 3/4	4 1/2 IF	16.80	286.78
11	JAR HYDRA	BOWEN	68183007		6 1/8	4 1/2 IF		
					2 3/4	4 1/2 IF	18.10	304.88
12	38 HW	PEPESA			4 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	1148.54	1453.42
13								
14								
15								
Rig:	PEPESA # 40	FOOTAGE:	311.00	SPP on:	2000	PSI	Inc Start:	42.5°
Push:	HUGO MUNAR	Drig Hrs:		SPP off:	2200	PSI	Inc End:	42.5°
Push:	OMAR VILLABLANCA	Av. ROP:	#DIV/0!	WOB:	-	kLBS	Azi. Start:	267.5°
Day in	2-Mar-95	Rotating ft:		RPM:	50		Azi. End:	262.2°
Out:	3-Mar-95	Rotating Hrs:		Bit RPM:	200		BUR Plan:	3.0 deg./100 ft
DD:	FRANZ/CAOQUETTE	Steering ft:		VOLUME:	400	GPM	DRLG FLD:	FLOPRO
Slim1:	PATRICK OSMONT	Steering Hrs:		Adj.Hsg°:	1.15		Co.Rep:	M. VILLASECA
Slim1:	EDWIN HUAMAN	Lock Nut OD:	N/A	Surv. Pt:	46.00	FEET	Co.Rep:	H. CONCHA
BHA expected behavior:		Correction run to adjust direction						
BHA actual behavior:		turn 1.7°/100' and hold inclination						
Comments:								
Last Casing or Liner:		9 5/8" Casing set @ 5605'.						
Bit Condition:								

ANADRILL		Bottom Hole Assembly		PETRO TECH PERUANA S.A.				
Schlumberger								
STRUCTURE:		Z 2B-21-008-D-LO16		SLOT 14		BUILD ASSY.		
JSO:		Depth in: 6318		Depth out: 6598		BHA# 9		
Item	Description	Vendor	Serial #	F. N.	OD/ID	Conn.	Length	Cum Length
1	BIT 8 1/2 : DS56H Jets : 4 x13	HYCLOG	H37476		8 1/2	-		
						4 1/2 R	1.00	1.00
2	NB. STB. 8 1/2'	ANADRILL	605		6 1/2	4 1/2 R		
					2 3/4	4 1/2 IF	5.28	6.28
3	SDC	ANADRILL	985126		6 1/2	4 1/2 IF		
					2 3/4	4 1/2 IF	5.60	11.88
4	STG. STB. 8 3/8'	ANADRILL	74628		6 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	4.06	15.94
5	UBHO w / MULE SHOE	ANADRILL	9853-3		6 1/2	4 1/2 IF		
					2 1/2	4 1/2 IF	2.33	18.27
6	MONEL w / MWD	ANADRILL	64304945		6 1/2	4 1/2 IF		
					2 11/16	4 1/2 IF	29.54	47.81
7	STG. STB. 8 1/2'	ANADRILL	625		6 1/8	4 1/2 IF		
					2 11/16	4 1/2 IF	4.30	52.11
8	MONEL	ANADRILL	65004		6 1/8	4 1/2 IF		
					2 11/16	4 1/2 IF	28.56	80.67
9	1 DC 6 1/2'	PEPESA	-		6 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	28.23	108.90
10	5 HW	PEPESA	-		4 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	150.78	259.68
11	JAR MEC	BOWEN	W/S.N		6 1/8	4 1/2 IF		
					2 3/4	4 1/2 IF	16.80	276.48
12	JAR HYDRA	BOWEN	68183007		6 1/8	4 1/2 IF		
					2 3/4	4 1/2 IF	18.10	294.58
13	38 HW	PEPESA			4 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	1148.54	1443.12
14								
15								
Rig: PEPESA # 40		FOOTAGE: 280.00		SPP on: 23,00 PSI		Inc Start: 42.5°		
Push: HUGO MUNAR		Drlg Hrs: 41.00		SPP off: 23,00 PSI		Inc End: 43.0°		
Push: OMAR VILLABLANCA		Av. ROP: 6.83		WOB: 25,000 KLBS		Azi. Start: 262.2°		
Day in 3-Mar-95		Rotating ft: 280.00		RPM: 120		Azi. End: 264.0°		
Out: 5-Mar-95		Rotating Hrs: 41.00		Bit RPM:		BUR Plan: 0		
DD: FRANZ / FRAIJA		Steering ft:		VOLUME: 420 GPM		DRLG FLD: FLOPRO		
Slim1: PATRICK OSMONT		Steering Hrs:		Adj.Hsg°: NONE		Co.Rep: M. VILLASECA		
Slim1: EDWIN HUAMAN		Lock Nut OD: N/A		Surv. Pt: 32.00 FEET		Co.Rep: O. PACHAS		
BHA expected behavior:		Hold direction and inclination						
BHA actual behavior:		Turned to the right 0.6°/100'						
Comments:		POOH at 6598' to change the PDC bit for a triconic bit:ATJ-05 (inserts bit)						
		R.O.P. to slow in shale formation						
Last Casing or Liner:		9 5/8" Casing set @ 5605'.						
Bit Condition:		+/- 60 % used (PDC)						

ANADRILL		Bottom Hole Assembly		PETRO TECH PERUANA S.A.				
Schlumberger								
STRUCTURE:		Z 2B-21-008-D-LO16			SLOT 14		BUILD ASSY.	
JSO:		Depth in: 6598		Depth out: 7106		BHA# 10		
Item	Description	Vendor	Serial #	F. N.	OD/ID	Conn.	Length	Cum Length
1	BIT 8 1/2 : ATJ-05 Jets : 3 x14	HUGHES	S30PM		8 1/2	-	0.80	
						4 1/2 R		0.80
2	NB. STB. 8 1/2'	ANADRILL	605		6 1/2	4 1/2 R	5.28	
					2 3/4	4 1/2 IF		6.08
3	SDC	ANADRILL	985126		6 1/2	4 1/2IF	5.60	
					2 3/4	4 1/2 IF		11.68
4	STG. STB. 8 3/8'	ANADRILL	74628		6 1/2	4 1/2 IF	4.06	
					2 7/8	4 1/2 IF		15.74
5	UBHO w / MULE SHOE	ANADRILL	9853-3		6 1/2	4 1/2 IF	2.33	
					2 1/2	4 1/2 IF		18.07
6	MONEL w / MWD	ANADRILL	64304945		6 1/2	4 1/2 IF	29.54	
					2 11/16	4 1/2 IF		47.61
7	STG. STB. 8 1/2'	ANADRILL	625		6 1/8	4 1/2 IF	4.30	
					2 11/16	4 1/2 IF		51.91
8	MONEL	ANADRILL	65004		6 1/8	4 1/2 IF	28.56	
					2 11/16	4 1/2 IF		80.47
9	1 DC 6 1/2'	PEPESA	-		6 1/2	4 1/2 IF	28.23	
					2 7/8	4 1/2 IF		108.70
10	5 HW	PEPESA	-		4 1/2	4 1/2 IF	150.78	
					2 7/8	4 1/2 IF		259.48
11	JAR MEC	BOWEN	W/S.N		6 1/8	4 1/2 IF	16.80	
					2 3/4	4 1/2 IF		276.28
12	JAR HYDRA	BOWEN	68183007		6 1/8	4 1/2 IF	18.10	
					2 3/4	4 1/2 IF		294.38
13	38 HW	PEPESA			4 1/2	4 1/2 IF	1148.54	
					2 7/8	4 1/2 IF		1442.92
14								
15								
Rig: PEPESA # 40		FOOTAGE: 508.00		SPP on: 2,300 PSI		Inc Start: 43.0°		
Push: HUGO MUNAR		Drlg Hrs: 36.25		SPP off: 2,300 PSI		Inc End: 41.6°		
Push: OMAR VILLABLANCA		Av. ROP: 14.01		WOB: 30,000 KLBS		Azi. Start: 264.0°		
Day in 5-Mar-95		Rotating ft: 508.00		RPM: 120		Azi. End: 267.5°		
Out: 7-Mar-95		Rotating Hrs: 36.25		Bit RPM:		BUR Plan: 0		
DD: FRANZ / FRAIJA		Steering ft:		VOLUME: 420 GPM		DRLG FLD: FLOPRO		
Slim1: KATIC / ZENIUK		Steering Hrs:		Adj.Hsg°:		Co.Rep: M. VILLASECA		
Slim1: EDWIN HUAMAN		Lock Nut OD: N/A		Surv. Pt: 32.00 FEET		Co.Rep: O. PACHAS		
BHA expected behavior:		Hold direction and inclination						
BHA actual behavior:		Turn 1.13 deg 100/ft hold inclination						
Comments:		Hoist at 7106 ft. for direction correction P.U. motor						
Last Casing or Liner:		9 5/8" Casing set @ 5605'.						
Bit Condition:		2-2-1						

ANADRILL		Bottom Hole Assembly		PETRO TECH PERUANA S.A.				
Schlumberger								
STRUCTURE:		Z 2B-21-008-D-LO16		SLOT 14		MOTOR ASSY.		
JSO:		Depth in: 7106		Depth out: 7852		BHA # 11		
Item	Description	Vendor	Serial #	F. N.	OD/ID	Conn.	Length	Cum Length
1	BIT 8 1/2 : ATJ -05 Jets : 3 X 16/32	HUGHES	N67BV		8 1/2	-		
						4 1/2 R	0.80	0.80
2	MOTOR POWERPAK B/H set @1.15	ANADRILL	675A4548		6 3/4	4 1/2 R		
						4 1/2 IF	21.18	21.98
3	STG. STB. 8 3/8'	ANADRILL	74628		6 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	4.06	26.04
4	UBHO w / MULE SHOE	ANADRILL	9853-3		6 1/2	4 1/2 IF		
					2 1/2	4 1/2 IF	2.33	28.37
5	MONEL w / MWD	ANADRILL	64304945		6 1/2	4 1/2 IF		
					2 11/16	4 1/2 IF	29.54	57.91
6	STG. STB. 8 1/2'	ANADRILL	625		6 1/8	4 1/2 IF		
					2 11/16	4 1/2 IF	4.30	62.21
7	MONEL	ANADRILL	65004		6 1/8	4 1/2 IF		
					2 11/16	4 1/2 IF	28.56	90.77
8	1 DC 6 1/2'	PEPESA	-		6 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	28.23	119.00
9	5 HW	PEPESA	-		4 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	150.78	269.78
10	JAR MEC	BOWEN	W/S.N		6 1/8	4 1/2 IF		
					2 3/4	4 1/2 IF	16.80	286.58
11	JAR HYDRA	BOWEN	68183007		6 1/8	4 1/2 IF		
					2 3/4	4 1/2 IF	18.10	304.68
12	38 HW	PEPESA			4 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	1148.54	1453.22
13								
14								
15								
Rig:	PEPESA # 40	FOOTAGE:	746.00	SPP on:	2000	PSI	Inc Start:	41.5°
Push:	HUGO MUNAR	Drlg Hrs:	47.50	SPP off:	2200	PSI	Inc End:	38.1°
Push:	OMAR VILLABLANCA	Av. ROP:	15.71	WOB:	40000	KLBS	Azi. Start:	267.5°
Day in	8-Mar-95	Rotating ft:	500.00	RPM:	50		Azi. End:	258.3°
Out:	11-Mar-95	Rotating Hrs:	32.00	Bit RPM:	200		BUR Plan:	3.0 deg./100 ft
DD:	RICK FRANZ	Steering ft:	246.00	VOLUME:	400	GPM	DRLG FLD:	FLOPRO
Slim1:	IVAN KATIC	Steering Hrs:	15.50	Adj.Hsg°:	1.15		Co.Rep:	M. VILLASECA
Slim1:	TIM ZENIUK	Lock Nut OD:	N/A	Surv. Pt:	46.00	FEET	Co.Rep:	H. CONCHA
BHA expected behavior:		Correction run to adjust direction						
BHA actual behavior:		Appr. 45' slide /100' = 3.0 deg. /100'						
Comments:		Hoist at 7852' , motor stalls , check motor on surface good condition.						
Last Casing or Liner:		9 5/8" Casing set @ 5605'.						
Bit Condition:		7-8-I						

ANADRILL		Bottom Hole Assembly							PETRO TECH PERUANA S.A.	
Schlumberger										
STRUCTURE:		Z 2B-21-008-D-LO16			SLOT 14		BUILD ASSY.			
JSO:		Depth in: 7852		Depth out: 8128		BHA# 1 2				
Item	Description	Vendor	Serial #	F. N.	OD/ID	Conn.	Length	Cum Length		
1	BIT 8 1/2 : ATJ-05 Jets : 1 x14 , 2 x 15	HUGHES	T40ET		8 1/2	-	0.80			
						4 1/2 R		0.80		
2	NB. STB. 8 1/2'	ANADRILL	605		6 1/2	4 1/2 R	5.28			
					2 3/4	4 1/2 IF		6.08		
3	SDC	ANADRILL	985126		6 1/2	4 1/2IF	5.60			
					2 3/4	4 1/2 IF		11.68		
4	STG. STB. 8 3/8'	ANADRILL	74628		6 1/2	4 1/2 IF	4.06			
					2 7/8	4 1/2 IF		15.74		
5	SDC	ANADRILL	9851-6		6 1/2	4 1/2 IF	11.66			
					2 15/16	4 1/2 IF		27.40		
6	UBHO w / MULE SHOE	ANADRILL	9853-3		6 1/2	4 1/2 IF	2.33			
					2 1/2	4 1/2 IF		29.73		
7	MONEL w / MWD	ANADRILL	64304945		6 1/2	4 1/2 IF	29.54			
					2 11/16	4 1/2 IF		59.27		
8	STG. STB. 8 1/2'	ANADRILL	625		6 1/8	4 1/2 IF	4.30			
					2 11/16	4 1/2 IF		63.57		
9	MONEL	ANADRILL	65004		6 1/8	4 1/2 IF	28.56			
					2 11/16	4 1/2 IF		92.13		
10	1 DC 6 1/2'	PEPESA	-		6 1/2	4 1/2 IF	28.23			
					2 7/8	4 1/2 IF		120.36		
11	JAR MEC	BOWEN	W/S.N		6 1/8	4 1/2 IF	16.80			
					2 3/4	4 1/2 IF		137.16		
12	9 HW	PEPESA			4 1/2	4 1/2 IF	271.71			
					2 7/8	4 1/2 IF		408.87		
13	JAR HYDRA	BOWEN	68183007		6 1/8	4 1/2 IF	18.10			
					2 3/4	4 1/2 IF		426.97		
14	34 HW	PEPESA			4 1/2	4 1/2 IF	1028.10			
					2 7/8	4 1/2 IF		1455.07		
15										
Rig: PEPESA # 40		FOOTAGE: 276.00		SPP on: PSI		Inc Start: 38.1°				
Push: HUGO MUNAR		Drig Hrs: 28.50		SPP off: 2,300 PSI		Inc End: 36.7°				
Push: OMAR VILLABLANCA		Av. ROP: 9.68		WOB: 38,000 KLBS		Azi. Start: 258.3°				
Day in 11-Mar-95		Rotating ft: 276.00		RPM: 120		Azi. End: 263.4°				
Out: 12-Mar-95		Rotating Hrs: 28.50		Bit RPM:		BUR Plan: 0				
DD: RICK FRANZ		Steering ft:		VOLUME: 420 GPM		DRLG FLD: FLOPRO				
Slim1: KATIC / ZENIUK		Steering Hrs:		Adj.Hsg°:		Co.Rep: M. VILLASECA				
Slim1: HUAMAN / RICALDI		Lock Nut OD: N/A		Surv. Pt: 46.00 FEET		Co.Rep: O. PACHAS				
BHA expected behavior:		Hold direction and build inclination								
BHA actual behavior:		Drop Inc. -.51° /100' turned right DIR. 1.85° / 100 '								
Comments:		Hoist at 8128' to change BHA move top stab, up string for build results.								
Last Casing or Liner:		9 5/8" Casing set @ 5605'.								
Bit Condition:		2-2-l								

ANADRILL		Bottom Hole Assembly		PETRO TECH PERUANA S.A.				
Schlumberger								
STRUCTURE:		Z 2B-21-008-D-LO16		SLOT 14		BUILD ASSY.		
JSO:		Depth in: 8128		Depth out: 8274		BHA# 13		
Item	Description	Vendor	Serial #	F. N.	OD/ID	Conn.	Length	Cum Length
1	BIT 8.5 : ATJ-M05C Jets : 3 x 15	HUGHES	A14CP		8 1/2	-		
						4 1/2 R	0.80	0.80
2	NB. STB. 8 1/2'	ANADRILL	605		6 1/2	4 1/2 R		
					2 3/4	4 1/2 IF	5.28	6.08
3	SDC	ANADRILL	985126		6 1/2	4 1/2 IF		
					2 3/4	4 1/2 IF	5.60	11.68
4	STG. STB. 8 3/8'	ANADRILL	74628		6 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	4.06	15.74
5	UBHO w / MULE SHOE	ANADRILL	9853-3		6 1/2	4 1/2 IF		
					2 1/2	4 1/2 IF	2.33	18.07
6	MONEL w / MWD	ANADRILL	64304945		6 1/2	4 1/2 IF		
					2 11/16	4 1/2 IF	29.54	47.61
7	MONEL w / MWD	ANADRILL	65004		6 1/2	4 1/2 IF		
					2 11/16	4 1/2 IF	28.56	76.17
8	STG. STB. 8 1/2'	ANADRILL	625		6 1/8	4 1/2 IF		
					2 11/16	4 1/2 IF	4.30	80.47
9	1 DC 6 1/2'	PEPESA	-		6 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	28.23	108.70
10	JAR MEC	BOWEN	W/S.N		6 1/8	4 1/2 IF		
					2 3/4	4 1/2 IF	16.80	125.50
11	9 HW	PEPESA			4 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	271.71	397.21
12	JAR HYDRA	BOWEN	68183007		6 1/8	4 1/2 IF		
					2 3/4	4 1/2 IF	18.10	415.31
13	34 HW	PEPESA			4 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	1028.10	1443.41
14								
15								
Rig: PEPESA # 40		FOOTAGE: 146.00		SPP on: PSI		Inc Start: 36.7°		
Push: DOMINGO MOGOLLON		Drig Hrs: 26.00		SPP off: 2,300 PSI		Inc End: 36.4°		
Push: O. VILLABLANCA		Av. ROP: 5.62		WOB: 38,000 KLBS		Azi. Start: 263.4°		
Day in 12-Mar-95		Rotating ft:		RPM: 120		Azi. End: 264.0°		
Out: 14-Mar-95		Rotating Hrs: 26.00		Bit RPM:		BUR Plan: 0		
DD: RICK FRANZ		Steering ft:		VOLUME: 390 GPM		DRLG FLD: FLOPRO		
Slim1: TIM ZENIUK		Steering Hrs:		Adj.Hsg°:		Co.Rep: M. VILLASECA		
Slim1: EDWIN HUAMAN		Lock Nut OD: N/A		Surv. Pt: 36.00 FEET		Co.Rep: H. CONCHA		
BHA expected behavior:		Hold direction and must build inclination to remain in target #2						
BHA actual behavior:		Held direction and held inclination						
Comments:		Hoist at 8274' to change out bit. ATJ-M05C to (R.R.) ATJ-05						
		R.O.P. 5' to 9' / hr.						
Last Casing or Liner:		9 5/8" Casing set @ 5605'.						
Bit Condition:		2-2-1						

ANADRILL		Bottom Hole Assembly		PETRO TECH PERUANA S.A.				
Schlumberger								
STRUCTURE:		Z 2B-21-008-D-LO16		SLOT 14		BUILD ASSY.		
JSO:		Depth in: 8274		Depth out: 8588		BHA# 14		
Item	Description	Vendor	Serial #	F. N.	OD/ID	Conn.	Length	Cum Length
1	BIT 8 1/2: ATJ-05 Jets : 3 x 15	HUGHES (R.R.)	T4OET		8 1/2	-		
						4 1/2 R	0.80	0.80
2	NB. STB. 8 1/2'	ANADRILL	605		6 1/2	4 1/2 R		
					2 3/4	4 1/2 IF	5.28	6.08
3	SDC	ANADRILL	985126		6 1/2	4 1/2 IF		
					2 3/4	4 1/2 IF	5.60	11.68
4	STG. STB. 8 3/8'	ANADRILL	74628		6 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	4.06	15.74
5	UBHO w / MULE SHOE	ANADRILL	9853-3		6 1/2	4 1/2 IF		
					2 1/2	4 1/2 IF	2.33	18.07
6	MONEL w / MWD	ANADRILL	64304945		6 1/2	4 1/2 IF		
					2 11/16	4 1/2 IF	29.54	47.61
7	MONEL w / MWD	ANADRILL	65004		6 1/2	4 1/2 IF		
					2 11/16	4 1/2 IF	28.56	76.17
8	STG. STB. 8 3/8'	ANADRILL	625		6 1/8	4 1/2 IF		
					2 11/16	4 1/2 IF	4.30	80.47
9	6 DC 6 1/2' SPIRAL	PEPESA	-		6 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	186.66	267.13
10	3 HW	PEPESA			4 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	90.48	357.61
11	JAR MEC	BOWEN	W/S.N		6 1/8	4 1/2 IF		
					2 3/4	4 1/2 IF	16.80	374.41
12	JAR HYDRA	BOWEN	68183007		6 1/8	4 1/2 IF		
					2 3/4	4 1/2 IF	18.10	392.51
13	34 HW	PEPESA			4 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	1026.86	1419.37
14								
15								
Rig:	PEPESA # 40	FOOTAGE:	314.00	SPP on:	PSI	Inc Start:	36.4°	
Push:	DOMINGO MOGOLLON	Drlg Hrs:	31.25	SPP off:	2,300 PSI	Inc End:	35.5°	
Push:	JESUS BUSTOS	Av. ROP:	10.05	WOB:	40,000 KLBS	Azi. Start:	264.0°	
Day in	14-Mar-95	Rotating ft:		RPM:	100 / 130	Azi. End:	268.2°	
Out:	16-Mar-95	Rotating Hrs:	314.00	Bit RPM:		BUR Plan:	0	
DD:	RICK FRANZ	Steering ft:		VOLUME:	390 GPM	DRLG FLD:	FLOPRO	
Slim1:	TIM ZENIUK	Steering Hrs:		Adj.Hsg°:		Co.Rep:	M. VILLASECA	
Slim1:	EDWIN HUAMAN	Lock Nut OD:	N/A	Surv. Pt:	36.00 FEET	Co.Rep:	H. CONCHA	
BHA expected behavior:		Hold direction and must build inclination to remain in target #2						
BHA actual behavior:		Inc dropped .29° /100' and direction turned right .68° / 100'						
		Run in hole with ATJ-05 (R.R.) condition 2-2-1						
Comments:		Hoist @ 8588 to change BHA						
Last Casing or Liner:		9 5/8" Casing set @ 5605'.						
Bit Condition:								

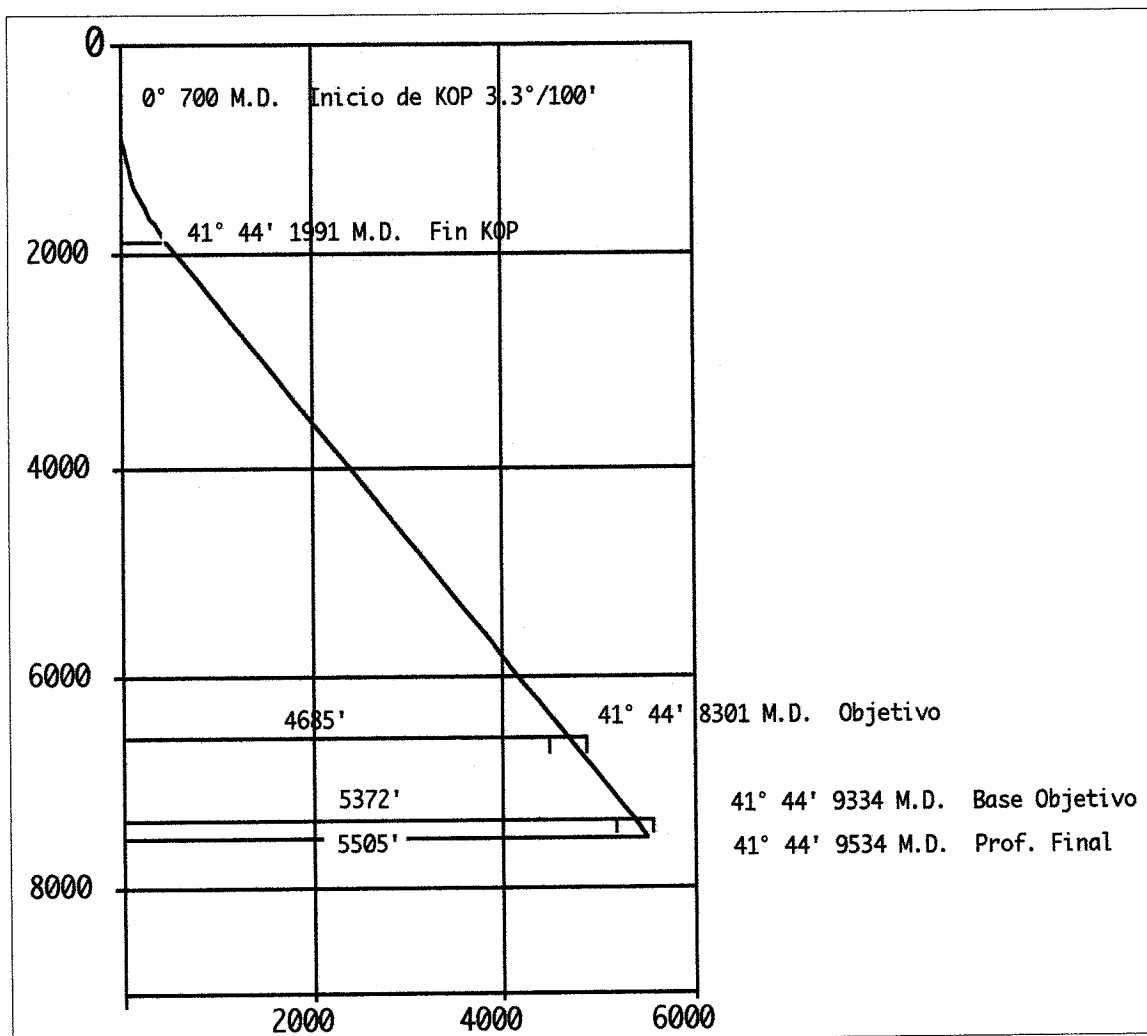
ANADRILL		Bottom Hole Assembly		PETRO TECH PERUANA S.A.				
Schlumberger								
STRUCTURE:		Z 2B-21-008-D-LO16		SLOT 14		BUILD ASSY.		
JSO:		Depth in:	8588	Depth out:	9170	BHA# 15		
Item	Description	Vendor	Serial #	F. N.	OD/ID	Conn.	Length	Cum Length
1	BIT 8 1/2: ATM05 Jets : 3 x 15	HUGHES	T24BA		8 1/2	-		
						4 1/2 R	0.80	0.80
2	NB. STB. 8 1/2'	ANADRILL	605		6 1/2	4 1/2 R		
					2 3/4	4 1/2 IF	5.28	6.08
3	SDC	ANADRILL	9851-6		6 1/2	4 1/2 IF		
					2 3/4	4 1/2 IF	11.66	17.74
4	UBHO w / MULE SHOE	ANADRILL	9853-3		6 1/2	4 1/2 IF		
					2 1/2	4 1/2 IF	2.33	20.07
5	MONEL w / MWD	ANADRILL	64304945		6 1/2	4 1/2 IF		
					2 11/16	4 1/2 IF	29.54	49.61
6	STG. STB. 8 3/8'	ANADRILL	74628		6 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	4.06	53.67
7	MONEL	ANADRILL	65004		6 1/2	4 1/2 IF		
					2 11/16	4 1/2 IF	28.56	82.23
8	6 DC 6 1/2' SPIRAL	PEPESA			6 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	186.66	268.89
9	3 HW	PEPESA			4 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	90.48	359.37
10	JAR MEC	BOWEN	W/S.N		6 1/8	4 1/2 IF		
					2 3/4	4 1/2 IF	16.80	376.17
11	JAR HYDRA	BOWEN	68183007		6 1/8	4 1/2 IF		
					2 3/4	4 1/2 IF	18.10	394.27
12	28 HW	PEPESA			4 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	845.50	1239.77
13								
14								
15								
Rig:	PEPESA # 40	FOOTAGE:	582.00	SPP on:	PSI	Inc Start:	35.5°	
Push:	DOMINGO MOGOLLON	Drig Hrs:		SPP off:	2,200 PSI	Inc End:	38.3°	
Push:	JESUS BUSTOS	Av. ROP:	#DIV/0!	WOB:	40/55 KLBS	Azi. Start:	268.2°	
Day in	16-Mar-95	Rotating ft:	582.00	RPM:	85 / 100	Azi. End:	280.1°	
Out:	20-Mar-95	Rotating Hrs:		Bit RPM:		BUR Plan:	0	
DD:	FRANZ / FRAIJA	Steering ft:		VOLUME:	390 GPM	DRLG FLD:	FLOPRO	
Slim1:	TIM ZENIUK	Steering Hrs:		Adj.Hsg°:		Co.Rep:	M. VILLASECA	
Slim1:	EDWIN HUAMAN	Lock Nut OD:	N/A	Surv. Pt:	38.00 FEET	Co.Rep:	H. CONCHA	
BHA expected behavior:		Hold direction and must build inclination to remain in target #2						
BHA actual behavior:		Builted 0.5°/100. Turned strongly to the right 2°/100'						
Comments:								
Last Casing or Liner:		9 5/8" Casing set @ 5605'.						
Bit Condition:								

ANADRILL		Bottom Hole Assembly		PETRO TECH PERUANA S.A.				
Schlumberger								
STRUCTURE:		Z 2B-21-008-D-LO16		SLOT 14		BUILD ASSY.		
JSO:		Depth in:	9170	Depth out:	9596	BHA# 16		
Item	Description	Vendor	Serial #	F. N.	OD/ID	Conn.	Length	Cum Length
1	BIT 8 1/2: ATJM11 Jets : 3 x 15	HUGHES	A45C0		8 1/2	-		
						4 1/2 R	0.80	0.80
2	NB. STB. 8 1/2'	ANADRILL	605		6 1/2	4 1/2 R		
					2 3/4	4 1/2 IF	5.28	6.08
3	SDC	ANADRILL	9851-6		6 1/2	4 1/2 IF		
					2 3/4	4 1/2 IF	11.66	17.74
4	UBHO w / MULE SHOE	ANADRILL	9853-3		6 1/2	4 1/2 IF		
					2 1/2	4 1/2 IF	2.33	20.07
5	MONEL	ANADRILL	64304945		6 1/2	4 1/2 IF		
					2 11/16	4 1/2 IF	29.54	49.61
6	STG. STB. 8 3/8'	ANADRILL	74628		6 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	4.06	53.67
7	MONEL w / MWD	ANADRILL	65004		6 1/2	4 1/2 IF		
					2 11/16	4 1/2 IF	28.56	82.23
8	3 DC 6 1/2' SPIRAL	PEPESA			6 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	93.33	175.56
9	JAR MEC	BOWEN	W/S.N		6 1/8	4 1/2 IF		
					2 3/4	4 1/2 IF	16.80	192.36
10	JAR HYDRA	BOWEN	68183007		6 1/8	4 1/2 IF		
					2 3/4	4 1/2 IF	18.10	210.46
11	43 HW	PEPESA			4 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	1298.75	1509.21
12								
13								
14								
15								
Rig: PEPESA # 40		FOOTAGE: 426.00		SPP on: PSI		Inc Start: 38.3°		
Push: DOMINGO MOGOLLON		Drlg Hrs:		SPP off: 2,200 PSI		Inc End: 43.2°		
Push: JESUS BUSTOS		Av. ROP: #DIV/0!		WOB: 40/55 kLBS		Azi. Start: 280.1°		
Day in 20-Mar-95		Rotating ft: 426.00		RPM: 85 / 100		Azi. End: 285.8°		
Out: 23-Mar-95		Rotating Hrs:		Bit RPM:		BUR Plan: 0		
DD: JOSE FRAIJA		Steering ft:		VOLUME: 390 GPM		DRLG FLD: FLOPRO		
Slim1: TIM ZENIUK		Steering Hrs:		Adj.Hsg°:		Co.Rep: M. VILLASECA		
Slim1: EDWIN HUAMAN		Lock Nut OD: N/A		Surv. Pt: 38.00 FEET		Co.Rep: H. CONCHA		
BHA expected behavior:		Hold direction and must build inclination to remain in target #2						
BHA actual behavior:		Builted inclination 1.15°/100, and turned right 1.34°/100'						
Comments:		Lay down the MWD Slim-1.						
Last Casing or Liner:		9 5/8" Casing set @ 5605'.						
Bit Condition:								

ANADRILL		Bottom Hole Assembly		PETRO TECH PERUANA S.A.				
Schlumberger								
STRUCTURE:		Z 2B-21-008-D-LO16		SLOT 14		BUILD ASSY.		
JSO:		Depth in: 9597		Depth out: 9979		BHA# 17		
Item	Description	Vendor	Serial #	F. N.	OD/ID	Conn.	Length	Cum Length
1	BIT 8 1/2: Jets : 3 x 15	HUGHES			8 1/2	-		
						4 1/2 R	0.80	0.80
2	NB. STB. 8 1/2"	ANADRILL	605		6 1/2	4 1/2 R		
					2 3/4	4 1/2 IF	5.28	6.08
3	SDC	ANADRILL	985126		6 1/2	4 1/2 IF		
					2 3/4	4 1/2 IF	5.60	11.68
4	1 DC	PEPESA			6 1/2	4 1/2 IF		
					2 1/2	4 1/2 IF	31.11	42.79
5	STB 8 3/8"	ANADRILL	74628		6 1/2	4 1/2 IF		
					2 11/16	4 1/2 IF	4.06	46.85
6	2 DC	PEPESA			6 1/8	4 1/2 IF		
					2 3/4	4 1/2 IF	92.22	139.07
7	JAR MEC	BOWEN	N/S		6 1/8	4 1/2 IF		
					2 3/4	4 1/2 IF	16.80	155.87
8	33 HW	PEPESA			4 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF		155.87
9	JAR HYDRA	BOWEN	68183007		6 1/8	4 1/2 IF		
					2 7/8	4 1/2 IF	18.10	173.97
10	10 HW	PEPESA			4 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	1298.75	1472.72
11								
12								
13								
14								
15								
Rig: PEPESA # 40		FOOTAGE: 382.00		SPP on: 2100 PSI		Inc Start: 43.2°		
Push: DOMINGO MOGOLLON		Drlg Hrs: 49.25		SPP off: - PSI		Inc End: -		
Push: JESUS BUSTOS		Av. ROP: 7.76		WOB: 45 KLBS		Azi. Start: 285.8°		
Day in 23-Mar-95		Rotating ft: 382.00		RPM: 90 100		Azi. End: -		
Out: 25-Mar-95		Rotating Hrs: 49.25		Bit RPM: -		BUR Plan: 0		
DD: JOSE FRAIJA		Steering ft: -		VOLUME: 349 GPM		DRLG FLD: FLOPRO		
Slim1: TIM ZENIUK		Steering Hrs: -		Adj.Hsg°: -		Co.Rep: M. VILLASECA		
Slim1: EDWIN HUAMAN		Lock Nut OD: N/A		Surv. Pt: - FEET		Co.Rep: H. CONCHA		
BHA expected behavior:		Drill ahead to balcones formation						
BHA actual behavior:								
Comments:								
Last Casing or Liner:		9 5/8" Casing set @ 5605'.						
Bit Condition:								

ANADRILL		Bottom Hole Assembly		PETRO TECH PERUANA S.A.				
Schlumberger								
STRUCTURE:		Z 2B-21-008-D-LO16		SLOT 14		BUILD ASSY.		
JSO:		Depth in: 9979		Depth out: 10339		BHA# 18		
Item	Description	Vendor	Serial #	F. N.	OD/ID	Conn.	Length	Cum Length
1	BIT 7 7/8 Jets : 3 x 15	HUGHES			7 7/8	-		
						4 1/2 R	0.80	0.80
2	NB. STB. 7 7/8	ANADRILL	605		6 1/2	4 1/2 R		
					2 3/4	4 1/2 IF	5.28	6.08
3	SDC	ANADRILL	985126		6 1/2	4 1/2 IF		
					2 3/4	4 1/2 IF	5.60	11.68
4	1 DC	PEPESA			6 1/2	4 1/2 IF		
					2 1/2	4 1/2 IF	31.11	42.79
5	STB 7 7/8	ANADRILL	74628		6 1/2	4 1/2 IF		
					2 11/16	4 1/2 IF	4.06	46.85
6	2 DC	PEPESA			6 1/8	4 1/2 IF		
					2 3/4	4 1/2 IF	92.22	139.07
7	JAR MEC	BOWEN	N/S		6 1/8	4 1/2 IF		
					2 3/4	4 1/2 IF	16.80	155.87
8	26 HW	PEPESA			4 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	806.55	962.42
9	JAR HYDRA	BOWEN	68183007		6 1/8	4 1/2 IF		
					2 7/8	4 1/2 IF	18.10	980.52
10	9 HW	PEPESA			4 1/2	4 1/2 IF		
					2 7/8	4 1/2 IF	274.50	1255.02
11								
12								
13								
14								
15								
Rig:	PEPESA # 40	FOOTAGE:	360.00	SPP on:	2100 PSI	Inc Start:	43.2°	
Push:	DOMINGO MOGOLLON	Drlg Hrs:		SPP off:	- PSI	Inc End:	-	
Push:	JESUS BUSTOS	Av. ROP:	#DIV/0!	WOB:	45 KLBS	Azi. Start:	285.8°	
Day in	25-Mar-95	Rotating ft:	360.00	RPM:	90 100	Azi. End:	-	
Out:	27-Mar-95	Rotating Hrs:		Bit RPM:	-	BUR Plan:	0	
DD:	JOSE FRAIJA	Steering ft:	-	VOLUME:	349 GPM	DRLG FLD:	FLOPRO	
Slim1:	TIM ZENIUK	Steering Hrs:	-	Adj.Hsg°:	-	Co.Rep:	M. VILLASECA	
Slim1:	EDWIN HUAMAN	Lock Nut OD:	N/A	Surv. Pt:	- FEET	Co.Rep:	H. CONCHA	
BHA expected behavior:		Drill ahead to balcones formation						
BHA actual behavior:								
Comments:		A 10077 se cambio la broca por una ATJ33(Bit #16)						
Last Casing or Liner:		9 5/8" Casing set @ 5605'.						
Bit Condition:								

GRAFICO & SURVEYS



ANADRILL / SCHLUMBERGER

Report of Survey

Minimum Curvature Method

MEASURED DEPTH	INCL.	DIRECTION	VERTICAL DEPTH	VERTICAL SECTION	R E C T A N G U L A R C O O R D I N A T E S		DLS Deg/100'
0	0	N 0.00 E	0	0	0	0	
BHA #1							
667.00	2.60	S 39.20 W	666.77	11.37	11.73 S	9.56 W	.39
757.00	4.30	S 46.90 W	756.60	15.71	15.61 S	13.32 W	1.95
787.00	5.00	S 42.50 W	786.51	17.68	17.35 S	15.02 W	2.62
848.00	7.60	S 43.10 W	847.13	22.98	22.25 S	19.57 W	4.26
908.00	10.70	S 47.40 W	906.36	30.80	28.92 S	26.39 W	5.29
938.00	11.80	S 43.90 W	935.79	35.59	33.02 S	30.56 W	4.31
968.00	12.70	S 45.80 W	965.10	40.77	37.53 S	35.06 W	3.29
998.00	13.50	S 50.20 W	994.32	46.50	42.07 S	40.11 W	4.26
1028.00	14.30	S 54.40 W	1023.44	52.85	46.46 S	45.81 W	4.29
1059.00	15.10	S 55.10 W	1053.43	59.94	51.00 S	52.24 W	2.64
1089.00	15.80	S 55.80 W	1082.34	67.18	55.54 S	58.82 W	2.41
1119.00	16.50	S 57.90 W	1111.16	74.82	60.09 S	65.81 W	3.04
1179.00	18.20	S 62.90 W	1168.43	91.62	68.89 S	81.37 W	3.77
1209.00	19.20	S 65.00 W	1196.85	100.84	73.11 S	90.01 W	4.02
1239.00	20.10	S 68.00 W	1225.10	110.63	77.13 S	99.26 W	4.51
1269.00	21.10	S 70.60 W	1253.18	120.98	80.85 S	109.14 W	4.52
1300.00	22.10	S 72.70 W	1282.01	132.26	84.44 S	119.97 W	4.08
1330.00	23.10	S 75.50 W	1309.70	143.71	87.59 S	131.05 W	4.90
1360.00	24.40	S 76.20 W	1337.16	155.75	90.54 S	142.77 W	4.43
1390.00	25.80	S 76.20 W	1364.33	168.44	93.58 S	155.13 W	4.67
1421.00	26.70	S 76.20 W	1392.13	182.12	96.85 S	168.44 W	2.90
1452.00	27.60	S 75.50 W	1419.72	196.21	100.31 S	182.16 W	3.08
1482.00	28.40	S 76.20 W	1446.20	210.25	103.75 S	195.81 W	2.88
1514.00	29.30	S 76.90 W	1474.23	225.66	107.34 S	210.83 W	3.00
1541.00	30.40	S 77.60 W	1497.65	239.07	110.31 S	223.94 W	4.27
1576.00	31.60	S 78.30 W	1527.65	257.08	114.07 S	241.57 W	3.58
1607.00	32.80	S 79.70 W	1553.88	273.59	117.21 S	257.78 W	4.56
1638.00	33.80	S 80.40 W	1579.79	290.61	120.15 S	274.55 W	3.46
1670.00	34.80	S 81.30 W	1606.23	308.64	123.02 S	292.35 W	3.50
1702.00	35.70	S 81.10 W	1632.36	327.11	125.85 S	310.60 W	2.84
1733.00	36.60	S 81.10 W	1657.39	345.40	128.67 S	328.67 W	2.90
1764.00	37.50	S 81.10 W	1682.13	364.07	131.56 S	347.12 W	2.90
1799.00	38.40	S 81.10 W	1709.73	385.60	134.89 S	368.38 W	2.57
1828.00	38.90	S 80.40 W	1732.38	403.71	137.81 S	386.26 W	2.29

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MEASURED DEPTH	INCL.	DIRECTION	VERTICAL DEPTH	VERTICAL SECTION	R E C T A N G U L A R C O O R D I N A T E S		DLS Deg/100'
1859.00	39.60	S 80.40 W	1756.39	423.32	141.08 S	405.60 W	2.26
1890.00	40.20	S 79.90 W	1780.17	443.21	144.48 S	425.19 W	2.19
1921.00	40.60	S 79.00 W	1803.77	463.29	148.16 S	444.94 W	2.28
1961.00	41.40	S 76.90 W	1833.96	489.51	153.64 S	470.60 W	3.98
2003.00	41.49	S 75.09 W	1865.45	517.22	160.37 S	497.58 W	2.87
2005.00	41.50	S 75.00 W	1866.95	518.54	160.71 S	498.86 W	2.86
BHA #2							
2076.00	41.80	S 76.90 W	1920.00	565.57	172.16 S	544.63 W	1.83
2169.00	41.80	S 77.60 W	1989.33	627.46	185.84 S	605.08 W	.50
2292.00	41.70	S 77.60 W	2081.09	709.26	203.43 S	685.08 W	.08
2385.00	41.70	S 77.60 W	2150.53	771.04	216.72 S	745.50 W	0
2479.00	41.90	S 78.30 W	2220.61	833.63	229.79 S	806.77 W	.54
2573.00	42.00	S 79.00 W	2290.52	896.44	242.16 S	868.38 W	.51
2667.00	42.20	S 79.00 W	2360.26	959.44	254.19 S	930.24 W	.21
2760.00	42.50	S 79.00 W	2428.99	1022.07	266.14 S	991.74 W	.32
2856.00	43.00	S 79.00 W	2499.49	1087.21	278.57 S	1055.71 W	.52
2948.00	43.20	S 79.00 W	2566.66	1150.05	290.57 S	1117.41 W	.22
3042.00	43.30	S 79.70 W	2635.13	1214.44	302.47 S	1180.71 W	.52
3134.00	43.70	S 79.70 W	2701.86	1277.76	313.79 S	1243.02 W	.43
3228.00	43.90	S 79.70 W	2769.71	1342.82	325.43 S	1307.03 W	.21
BHA #3							
3365.00	43.50	S 79.70 W	2868.76	1437.46	342.35 S	1400.16 W	.29
3490.00	43.10	S 79.70 W	2959.73	1523.18	357.68 S	1484.50 W	.32
3616.00	42.90	S 79.70 W	3051.88	1609.10	373.04 S	1569.05 W	.16
3740.00	42.30	S 79.70 W	3143.15	1693.03	388.05 S	1651.63 W	.48
3928.00	41.30	S 79.70 W	3283.30	1818.32	410.46 S	1774.92 W	.53
4117.00	39.70	S 79.70 W	3427.01	1941.05	432.40 S	1895.68 W	.85
4241.00	38.60	S 79.70 W	3523.17	2019.33	446.40 S	1972.71 W	.89
BHA #4							
4366.00	37.80	S 79.70 W	3621.40	2096.62	460.22 S	2048.76 W	.64
4493.00	36.70	S 78.70 W	3722.50	2173.47	474.62 S	2124.27 W	.99
BHA #5							
4621.00	37.60	S 81.10 W	3824.52	2250.75	488.15 S	2200.36 W	1.33
4746.00	38.50	S 81.90 W	3922.96	2327.78	499.54 S	2276.56 W	.82
4868.00	40.30	S 81.90 W	4017.23	2405.19	510.45 S	2353.22 W	1.47
4994.00	42.20	S 82.60 W	4111.95	2488.23	521.64 S	2435.53 W	1.55
5119.00	44.30	S 83.30 W	4203.00	2573.79	532.14 S	2520.53 W	1.72
BHA #6							
5271.00	44.40	S 83.30 W	4311.69	2679.92	544.54 S	2626.06 W	.07
5395.00	43.90	S 83.30 W	4400.66	2766.18	554.61 S	2711.84 W	.40

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MEASURED DEPTH	INCL.	DIRECTION	VERTICAL DEPTH	VERTICAL SECTION	R E C T A N G U L A R C O O R D I N A T E S		DLS Deg/100'
5565.00	43.20	S 84.00 W	4523.87	2883.13	567.57 S	2828.24 W	.50
BHA #7							
5662.00	43.30	S 84.00 W	4594.52	2949.47	574.52 S	2894.34 W	.10
5787.00	43.20	S 85.40 W	4685.57	3034.89	582.43 S	2979.62 W	.77
5913.00	42.90	S 86.80 W	4777.65	3120.48	588.29 S	3065.43 W	.79
5944.00	42.50	S 86.80 W	4800.43	3141.38	589.46 S	3086.42 W	1.29
5975.00	42.50	S 87.50 W	4823.29	3162.18	590.50 S	3107.34 W	1.53
BHA #8							
6008.00	42.50	S 87.50 W	4847.62	3184.31	591.47 S	3129.61 W	0
6040.00	42.80	S 86.80 W	4871.15	3205.84	592.55 S	3151.26 W	1.75
6070.00	42.90	S 86.10 W	4893.15	3226.14	593.81 S	3171.63 W	1.62
6102.00	42.80	S 86.10 W	4916.61	3247.79	595.29 S	3193.34 W	.31
6131.00	42.50	S 85.40 W	4937.94	3267.36	596.75 S	3212.93 W	1.93
6196.00	42.60	S 82.60 W	4985.83	3311.22	601.34 S	3256.64 W	2.92
6226.00	42.70	S 82.60 W	5007.89	3331.54	603.96 S	3276.79 W	.33
6257.00	42.50	S 82.60 W	5030.71	3352.50	606.67 S	3297.60 W	.64
BHA #9							
6422.00	42.50	S 83.30 W	5152.36	3463.87	620.35 S	3408.23 W	.29
6504.00	42.70	S 84.00 W	5212.72	3519.29	626.48 S	3463.39 W	.63
6566.00	43.00	S 84.00 W	5258.18	3561.38	630.89 S	3505.33 W	.48
BHA #10							
6661.00	42.70	S 84.00 W	5327.83	3625.87	637.65 S	3569.58 W	.32
6747.00	42.70	S 84.70 W	5391.03	3684.05	643.39 S	3627.62 W	.55
6840.00	42.50	S 85.40 W	5459.49	3746.81	648.82 S	3690.33 W	.55
6933.00	42.10	S 86.10 W	5528.27	3809.13	653.46 S	3752.75 W	.66
7057.00	41.60	S 87.50 W	5620.64	3891.36	658.08 S	3835.34 W	.85
BHA #11							
7119.00	40.90	S 87.50 W	5667.26	3931.93	659.87 S	3876.18 W	1.13
7150.00	40.10	S 87.50 W	5690.83	3951.92	660.74 S	3896.30 W	2.58
7181.00	40.30	S 86.80 W	5714.51	3971.79	661.74 S	3916.28 W	1.59
7212.00	39.60	S 86.10 W	5738.27	3991.59	662.97 S	3936.15 W	2.68
7243.00	39.40	S 84.70 W	5762.19	4011.23	664.55 S	3955.80 W	2.94
7274.00	39.30	S 84.00 W	5786.16	4030.85	666.49 S	3975.36 W	1.47
7306.00	38.90	S 82.60 W	5811.00	4051.00	668.84 S	3995.41 W	3.03
7337.00	38.90	S 81.90 W	5835.12	4070.46	671.46 S	4014.69 W	1.42
7368.00	39.50	S 81.90 W	5859.14	4090.05	674.23 S	4034.09 W	1.93
7399.00	39.60	S 81.10 W	5883.05	4109.78	677.14 S	4053.61 W	1.67
7429.00	39.30	S 80.40 W	5906.21	4128.84	680.21 S	4072.43 W	1.79
7461.00	39.10	S 78.30 W	5931.01	4149.06	683.94 S	4092.30 W	4.19
7492.00	39.40	S 77.60 W	5955.02	4168.66	688.04 S	4111.48 W	1.73

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MEASURED DEPTH	INCL.	DIRECTION	VERTICAL DEPTH	VERTICAL SECTION	R E C T A N G U L A R C O O R D I N A T E S		DLS Deg/100'
7523.00	39.30	S 77.60 W	5978.99	4188.29	692.26 S	4130.68 W	.32
7554.00	39.20	S 78.30 W	6003.00	4207.88	696.35 S	4149.86 W	1.46
7584.00	38.80	S 79.00 W	6026.31	4226.75	700.07 S	4168.37 W	1.98
7615.00	38.70	S 79.70 W	6050.49	4246.15	703.66 S	4187.44 W	1.45
7646.00	38.40	S 80.90 W	6074.73	4265.47	706.91 S	4206.48 W	2.60
7677.00	38.40	S 81.10 W	6099.03	4284.72	709.92 S	4225.50 W	.40
7708.00	38.30	S 80.00 W	6123.34	4303.96	713.08 S	4244.47 W	2.22
7739.00	38.60	S 79.70 W	6147.62	4323.23	716.48 S	4263.45 W	1.14
7770.00	38.70	S 79.00 W	6171.83	4342.59	720.06 S	4282.48 W	1.45
7800.00	38.10	S 78.30 W	6195.34	4361.21	723.72 S	4300.75 W	2.47
BHA #12							
7925.00	37.70	S 81.10 W	6293.98	4437.97	737.46 S	4376.28 W	1.41
7987.00	37.40	S 81.90 W	6343.14	4475.75	743.04 S	4413.65 W	.92
8049.00	36.90	S 82.60 W	6392.55	4513.18	748.09 S	4450.75 W	1.06
8080.00	36.70	S 83.40 W	6417.38	4531.73	750.36 S	4469.18 W	1.67
BHA #13							
8142.00	36.70	S 83.30 W	6467.09	4568.74	754.65 S	4505.98 W	.10
8235.00	36.40	S 84.00 W	6541.80	4624.04	760.77 S	4561.02 W	.55
BHA #14							
8335.00	36.20	S 84.00 W	6622.39	4683.13	766.96 S	4619.90 W	.20
8427.00	35.80	S 85.40 W	6696.82	4737.05	771.96 S	4673.74 W	.99
8490.00	35.70	S 86.80 W	6747.95	4773.68	774.46 S	4710.46 W	1.31
8552.00	35.50	S 88.20 W	6798.36	4809.50	776.04 S	4746.52 W	1.35
BHA #15							
8646.00	35.60	N 89.00 W	6874.85	4863.46	776.42 S	4801.16 W	1.73
8707.00	35.80	N 87.60 W	6924.38	4898.37	775.36 S	4836.73 W	1.38
8801.00	36.00	N 86.20 W	7000.53	4952.16	772.38 S	4891.77 W	.90
8893.00	36.60	N 84.10 W	7074.68	5004.92	767.77 S	4946.03 W	1.50
8986.00	37.30	N 82.00 W	7149.00	5058.52	761.00 S	5001.52 W	1.55
9079.00	38.30	N 79.90 W	7222.49	5112.55	752.02 S	5057.80 W	1.75
9159.00	39.00	N 78.50 W	7284.97	5159.41	742.65 S	5106.87 W	1.40
BHA #16							
9250.00	39.60	N 77.10 W	7355.39	5212.96	730.47 S	5163.20 W	1.18
9343.00	39.60	N 74.90 W	7427.05	5267.31	716.13 S	5220.72 W	1.51
9435.00	40.30	N 74.20 W	7497.58	5320.87	700.39 S	5277.65 W	.90
9528.00	42.40	N 74.20 W	7567.39	5376.42	683.66 S	5336.77 W	2.26
9558.00	43.20	N 74.20 W	7589.40	5394.84	678.11 S	5356.38 W	2.67

Final location: 5399.14 feet at S 82.78 W
Plane of Vertical Section: 260.50 degrees

PETRO-TECH

Schlumberger	Anadrill
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WGL L016-14

FIELD Lobitos

Pepesa 40

Magnetic Declination
Model: IGRF

Angle: 2.4° FS: 29369
Dist: 15.136" Date: 02/07/96

Or
Soci

Surface: 2-28-21-008-C	
Mid Cerrit	Xi
Low Forest	Yi

MS Elevation: 0 Ft

Drawn: 07-Feb-95
Month:

