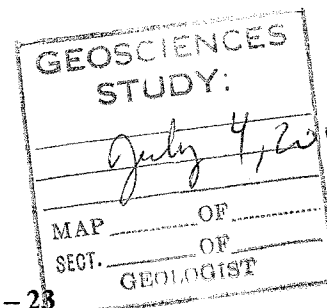


PEIRO-TECH
PERIANA S.A



FINAL INFORMATION



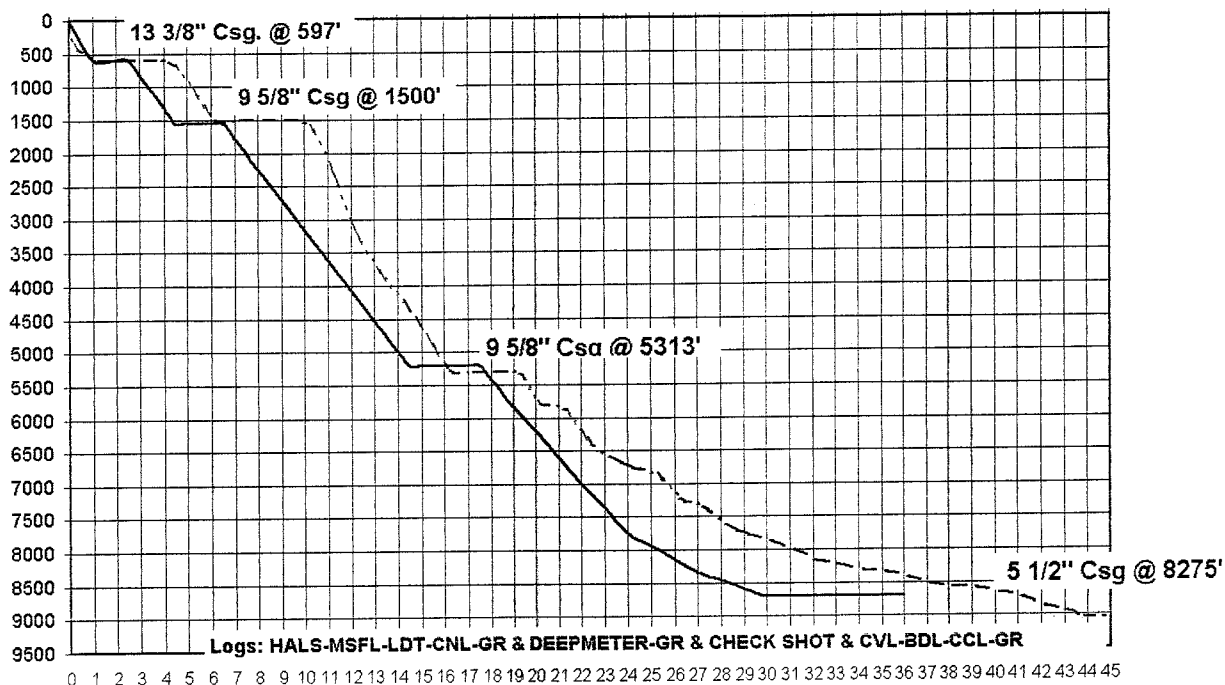
WELL : LO6-23
AFE : 2211101
CONTRAT : PEPESA
RIG : P-48

WELL DATA

TYPE OF WELL	: DEVELOPMENT
WATER DEPTH	: 335'
OBJETIVE FORM	: BASAL SALINA
SPUD IN DATE	: APRIL 24-2001
DATE T.D. REACH	: JUNE 06-2001
DRLG DAYS	: 44
T.D (MD)	: 9040'
T.D (VD)	: 8362'
MAX. ANGLE	: 31.40°
FINAL ANGLE	: 21.70°
DIRECTION	: S 33.5° W
 TOTAL COST	 : 1'509,300 **
F.T. COST	: 166.96

PETRO-TECH
DRILLING
DRILLING TIME PROGNOSIS

WELL: LO6-23	RIG: P-48	CONTRACTOR: PEPESA	LOCATION: LOBITOS
OBJECTIVE: B. SALINA	ESTIMATE DEPTH: 8,720'	DAYS ESTIM: 30	REAL: 44 API: 2211101
SPUD DATE: APR. 24 - 01	DATE ABANDONED:	FINAL DEP.: 9040'	RELEASED: JUN.14-01

DEVELOPMENT WELL


— PROGNOSIS - - - - ACTUAL

April 24. Spudded to drill at 05:00 hrs. RIH conductor to 395'; RIH 17" bit -lateral jet to 393'. Drilled at 414' (conductor penetration deep 407') drilled to 445' w/torg. due to junk; made run w/magnet-recovered pieces of steel. RIH. Drilled to 473'; repaired conductor base. Drilled to 597'. POOH. M/U Underreamer enlarge hole at 597' pumped high visc. Pill. POOH. RIH. Conductor tag at 489'; could not pass lift to 479'. RIH. w/underreamer and reamed from 484' to 597'. Circ. POOH. RIH conductor to bottom; N/U 21 1/4" Bop's. RIH opened end Dp's to 597'. Cemented 18" Cond. WOC. Welded flowline; M/U BHA-(GTX-C1) bit. RIH drilled out cement drilled to 1030' (1 3/4") POOH. Changed bit. RIH. Drilled to 1500(1 3/4") Circ. POOH to conductor shoe. RIH. tag at 1340; RIH w/Circ. to bottom. POOH. Ran-Cemented 13 3/8" Csg. WOC. N/D 21 1/4" Bop's; Cut off csg; Welded adapter ring -Braden Head- N/U Bop's welding flowline; tested blind rams and choke manifold w/1200 psi, leaked by 4" union wing of manifold; changed it and tested -Ok. RIH. w/Slick Assy to 1450' (cement top) tested pipe rams w/1200 psi and annular w/900 psi-Ok. Drilled out cement to 1470, there isn't progress. POOH. Changed bit. RIH. Drilled out cement and 100' of formation. POOH. M/U Mud Motor-(S91PX) bit; repaired riser and flowline. RIH. to 1600' tested Slim-1, negative. POOH. Removed Slim-1 and found pulser out of stright line. RIH. Drilled (sliding & rotating) from 1600' to 2192' (28.2°-S32.9°W) made short trip to shoe-Ok. Drilled to 2692' (28.6°-S36°W) Circ. POOH. L/D Mud Motor. M/U Stabilized Assy - (S91PX) bit RIH. to 1461'; cut 85' drilling line; continue RIH tag at 2647; put kelly and washed to bottom. Drilled to 3253 (26.3°-S31.4°W) short trip 8 stands-Ok. Drilled to 3635 (25.8°-S31.7°W) trip to change bit (DS69HF) drilled to 3785 (25.6°-S31.4°W) changed liner packing in cylinder fluid of # 1 mud pump. Drilled to 4229 (22.9°-S29.6°W) POOH changed bit (BD535) and pulser-centrilizer to MWD tested-Ok. RIH tag at 4179; washed to bottom. Drilled to 4990 (15.6°-S28.2°W) POOH changed BHA. RIH tag at 4729; washed. Drilled to 5313 (16.5°-S27.5°W). Circ. trip to shoe (reamed from 5231 to 5313). POOH. Ran & Cemented 9 5/8" Csg. WOC; N/D Bop's and set csg slips Installed Csg. Spool. Raiser. Drilling Spool and N/U Bop's; welding flowline; tested blind rams w/1500 psi. RIH w/cup tester and tested annular w/1500 psi. RIH. w/Slick Assy drilled out cement and 10 feet formation. POOH. M/U Mud Motor-(GTM-1)bit. RIH tested Slim-1 Drilled (sliding-rotating) to 5818' (27.8°-S38.1°W) Circ. POOH. L/D Power Pack and RIH w/Rotary Assy - (DS110NS) bit tag at 5745' washed to bottom. Drilled to 5854' (27.6°-S38.1°W) checked mud pumps and surface line due to drop pressure. POOH. Changed jets

RIH to 5854'; circulating each 10 stands to test string. Drilled to 6321' (26.4°-S33.1W) wiper trip 6 stands. Drilled to 6571' Circ. POOH to changed BHA; repaired mastil support: M/U Mud Motor. RIH. tested Slim-1; continue RIH. to 9 5/8" shoe; cut 80' drilling line; reamed from 6521 to 6571. Drilled (sliding-rotating) to 6764' (26.3°-S28.9°W) POOH. Changed Mud Motor w/ 1.15° Angle Bent Housing by 1.5° ABH. RIH tested MWD tag at 6714. P/U kelly and cleaned to bottom. Drilled to 7122 (26.6°-S40.9°W) repaired mud pump # 2 (changed packing of discharge manifold) and pump # 1 (modules 2 & 3) Drilled to 7331' didn't received MWD signal: POOH changed pulser, battery and shorting plug in MWD. RIH tested -Ok washed from 7291 to bottom. Drilled (sliding & rotating) to 7614' (27.2°-S38°W) repaired mud pumps. Drilled to 7802' (30.3°-S36°W) repaired rotary chain - increased mud wt. to 11.6 ppg. Drilled to 7850' (33.36°-S37.9°W) short trip 6 stands - Ok. Drilled to 7865' (18.5°-N38°E) increased mud wt. to 12.0 ppg. POOH. L/D removed MWD. Mud Motor. RIH w/ (HP51AKP)-bit; washed 20' to bottom. Drilled to 7920'. Circ. Monitoring well to check drilling brake (191 gas units). Drilled to 8088 short trip 5 stands-Ok. Drilled to 8223' dropped pressure; checked pump and lines. POOH. found **washout** in joint # 56. L/D Dp; put kelly and reamed from 8185 to bottom. Drilled to 8229 dropped pressure POOH found **washout** in joint # 57. L/D Dp; tested. circulated; repaired drawworks chain (2 hrs) continue RIH reamed from 8183' to bottom. Drilled to 8232' dropped pressure; when lift string, broke principal chain; repaired and changed drawworks chain transmission (3 hrs) continue POOH. found **washout** in joint # 66. L/D Dp; put kelly and tested pumps. RIH. tag at 8182; reamed to bottom. Drilled to 8307. dropped pressure; changed pump and checked surface lines POOH found **washout** in drill pipe # 68. L/D joint. RIH. tag at 7904'; reamed to 8038' then RIH to bottom. Drilled to 8315' dropped pressure checked surface lines. POOH at 6774' the drawworks transmission chain broke; changed (1 hr) to continue POOH. found **washout** in joint # 61. L/D Dp; and tested string. RIH tag at 8248'; reamed to bottom. Drilled to 8336. POOH to changed bit. RIH w/ (GTM-18)-bit to shoe; slip and cut drilling line. RIH to 8280 (changed 20 Dp's) reamed to bottom. Drilled to 8419' changed pump and revised surface line to check drop pressure. POOH. found **washout** in joint # 55. L/D Dp; tested string. RIH to 8373' washed to bottom. Drilled to 8489' dropped pressure. POOH found **washout** in Dp # 63. L/D joint; tested. RIH. Drilled to 8545'; observed dropped pressure. POOH. found **washout** in joint # 58. L/D Dp; tested string. RIH to 8499 and washed to bottom. Drilled to 8570. POOH to check drop pressure; found in Dp # 58 **washout**. L/D joint and POOH 20 more joints and tested string; continued POOH 32 more joints and tested string. RIH to 8539'; washed to bottom; attempted drill but observed pressure dropping. POOH. L/D 20 joints from place 50 to 70. didn't find **washout** RIH testing string each 10 stands; washed from 8440 to bottom. Drilled to 8655'. POOH.

Performed Dissolved Gases Analysis in Drillind Fluid: **CO2**: Zero; **H2S**: Zero; **O2**: 0.68 to 2.0 ppm. (Values are in normal ranges)

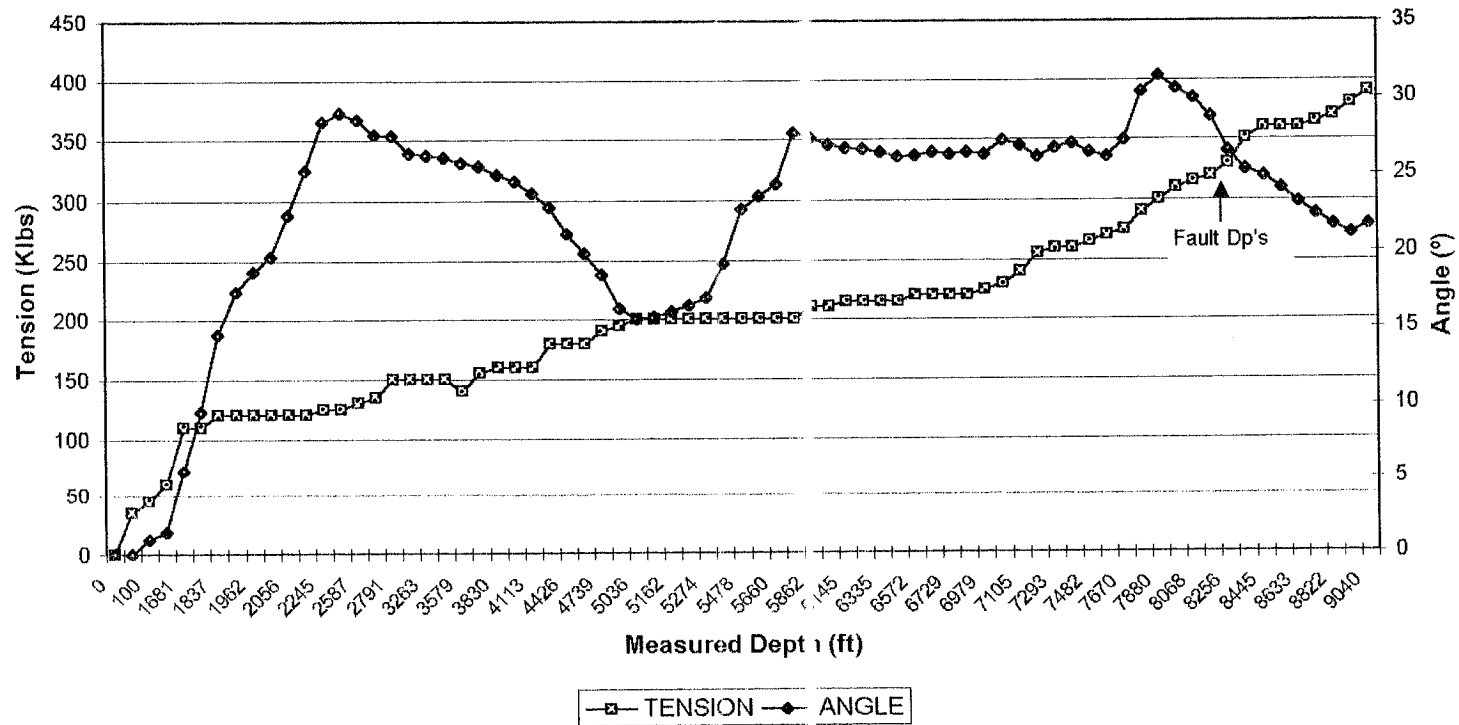
RIH w/ (GTM-09)-bit; tag at 8595'; washed to bottom. Drilled to 8876' observed pressure drop. POOH found in joint # 64 **washout**; L/D. Dp. RIH to 8842'; washed to bottom. Drilled to 8878'. POOH to check pressure dropped; found **washout** in # 12 Dp. L/D joint. RIH to bottom. Drilled 9040 (T.D) Circ. M/U short trip to Csg. Shoe; cut 190 drilling line. RIH tag to 8530 washed to 8570 RIH to bottom increased mud Wt to 12.4 ppg. POOH. Schlumberg logged w/HALS-MSFL-LDT-CNL-GR & DEEPMETER-GR from 9040 to 9 5/8" Csg shoe Logged w/ Check Shot Tool from 9040 to 500' in 20 stations. Schlumberger R/D. equipment.

RIH to bottom. POOH breaking connections and taking Multishot Survey. Ran & Cement 5 1/2" Csg. WOC. Set Csg. Slips. Take temperature Survey N/D Bop's. Installed Tbg. Head. L/D Dp's. Installed Shooting Valve. Schlumberg Log w/CVL-BDL-CCL-GR. Tested lubricator w/3000 psi. Perforated from 8042 - 7904 w/75 shots. WHP 1600 psi. Perf. 8004 - 7958 w/78 shots. WHP 1700 psi. POOH broke in weak point leaving gun above shooting valve. RIH to perforate 3er-Intv. Didn't wor CCL. POOH to check; left in hole gun. WO new gun Perf. 7982 - 7912 w/69 shots. WHP 1850 psi. R/D Equip. K&C took initial pressure. Production Personnel put well on production

TIME BREAKDOWN

MOVING	ROTATE	TRIPS	REL. DRLG	M & R	COMPL.	STUCK PIPE	DOWNTIME
65	512	307.5	288	17	91		7

LO6-23 DETAIL LOAD



Drilled to 8223 drop pressure - washout in joint # 56
 Drilled to 8229 - washout in joint # 57
 Drilled to 8232 - washout in joint # 66
 Drilled to 8307 - washout in joint # 68
 Drilled to 8315 - washout in joint # 61
 Drilled to 8419 - washout in joint # 55
 Drilled to 8489 - washout in joint # 63
 Drilled to 8545 - washout in joint # 58
 Drilled to 8570 - washout in joint # 58
 Drilled to 8876 - washout in joint # 64
 Drilled to 8878 - washout in joint # 12

BIT RECORD & FOOT COST (US\$)

WELL : LO6 - 23

SPUD IN DATE : APRIL 24 - 2001

MUD TYPE : FLO-DRILL

RIG : PEPESA # 48

T. D. REACHED : JUNE 06 - 2001

MAX. ANGLE : 31.4°

BIT	SIZE	TYPE	MFG	SERIAL	JETS	DEPTH		FOOT.	HOURS		ROP	TRIP	BIT		WOB	RPM	PUMP		MUD WT.	DULL COND.	FORMATION
						IN	OUT		ROT.	CUM			COST	\$/Ft.			PRESS	GPM			
1RR	17	GTX-1	HTC	L59GE	2x18-16	395	597	202	9	9	2.4	0.9	0	19.4	10	100	950	550	8.4		
2RR	17	GTX-C1	HTC	W52CL	3x22-16	597	1030	433	19	28	2.8	1.5	0	18.7	15	120	700	552	9	4-6-1/8	TALARA
3RR	17	GTX-C1	HTC	W53CL	3x18-16	1030	1500	470	17.5	45.5	6.9	2.3	0	16.6	15/20	120	1000	552	9.1		TALARA
4RR	12 1/4	ATX-C1	HTC	A33CD	3x16-18	1450	1470	20	2.5	48	3.0	2.2	0	92.8							CEMENT
5RR	12 1/4	FDS+	HTC	YE7185	3x18	1470	1600	130	2	50	5.0	2.4	0	13.4	25	120	1300	662	8.8		CMT- TALARA
6RR	12 1/4	S91PX	STC	JR8589	5x16-2x18	1600	2692	1092	20	70	4.6	4	0	8.7	15/18	PP/60	1550	703	9.1		CHACRA
6RR	12 1/4	S91PX	STC	JR8589	5x16-2x18	2692	3635	943	17.5	87.5	3.9	5.5	0	9.6	15/20	110	1600	700	9.5	20%	RIO BRAVO
7RR	12 1/4	DS69HFV+GV	HYC	S19243	3x15-3x18	3635	4229	594	27.5	115	1.6	6.3	0	22.5	25/30	110	1900	700	9.7	70%	RIO BRAVO
8	12 1/4	BD535	HTC	0402502	4x16-18-2x20	4229	4998	769	22	137	5.0	7.5	50,000	80.2	25	100	1700	700	9.8		RIO BRAVO
8RR	12 1/4	BD535	HTC	0402502	4x16-18-2x20	4998	5313	315	8.5	145.5	7.1	8	0	20.7	25	80	1600	650	9.9		PALEGREDA
9RR	8 1/2	GTM-1	HTC	L26CW	3x22	5214	5323	109	3	148.5	6.3	8	0	39.9	30	100	750	512	10.2	3-3-1/16	CMT-PALEG.
10	8 1/2	GTM-1	HTC	504DV	3x22	5323	5818	495	22.5	171	2.0	8.7	4,550	34.1	25/30	PP/60	1500	500	10.4	3-3-1/32	PALEGREDA
11	8 1/2	DS110NSV	HYC	H47615	4x16-2x18	5818	5854	36	1	172	6.0	8.8	27,000	857.5	10/15	120	800	500	10.4		PALEGREDA
11RR	8 1/2	DS110NSV	HYC	H47615	5x16-15	5854	6571	717	18	190	9.8	9.9	0	15.4	15/10	140	1500	511	10.9		S.CRISTOBAL
11RR	8 1/2	DS110NSV	HYC	H47615	5x16-18	6571	6764	193	23	213	3.4	10.1	0	67.7	5/10	PP/80	1700	500	10.9	5%	S.CRISTOBAL
12	8 1/2	GTM-1	HTC	505AV	2x22-24	6764	7331	567	40	253	4.2	11	4,550	43.6	28	PP/60	1750	480	11	2-2-1/16	S.CRISTOBAL
13RR	8 1/2	DS110NSV	HYC	H47615	3x16-3x18	7331	7865	534	53.5	306.5	0.0	11.8	0	48.3	30	PP/70	1910	420	12	6%	S.CRISTOBAL
14	8 1/2	HP51AKPR	HYC	BW4023	3x24	7865	8336	471	68	374.5	3.9	12.5	7,250	82.9	38/40	90	1400	420	12.3	4-7-1/16	B. SALINA
15	8 1/2	GTM-18	HTC	R16DF	3x24	8336	8655	319	66	440.5	4.8	13	8,200	123.5	35	90	1300	400	12.3	2-2-4	B. SALINA
16	8 1/2	GTM-09	HTC	R14DD	3x24	8655	9040	385	71.5	512	5.4	13.6	8,500	109.4	38	90	1300	401	12.3		B. SALINA

NOTE: PDC BIT PERFORMANCE

42.16

	FOOTAGE	HOURS
S91PX (JR8589)	9,637	209
DS69HFV+GV (S19243)	1,801	65
BD535 (0402502)	1084	30.5
DS110NSV (H47615)	1480	95.5

	PIPE		TOOL JOINT		WEIGHT
Drill Stem:	O.D	I.D	O.D	I.D	lbs/pie
Drill pipe "G-105"	5.00	4.28	6.25	3.25	19.50
Heavy weight	5.00	3.00	6.50	2.875	53.00
Drill collar (two size)	8.00	3.00	6.25	2.813	150 / 92

HYDRAULIC ANALYSIS

WELL : LO6 - 23

TYPE BIT	INTERVAL		BIT size	NOZZLES							FLOW P gpm	PRESSURE(psi)		VELOCITY (ft/min)			HSI hp/plg2	J. VEL. ft/seg	IMPACT FORCE	ROP ft/hr	ECD lbs/gl	TYPE Motor	BHA
	FROM	TO		J-1	J-2	J-3	J-4	J-5	J-6	J-7		Bit	Systems	D.p	D.c	Critical							
GTX-1(rr)	395	597	17.00	18	18	16					550	439	823	51	48	287	0.6	255	578	22.4	8.4		1
GTX-C1(rr)	597	1030	17.00	22	22	22	16				552	133	743	51	48	284	0.2	135	330	22.8	9.0		2
GTX-C1(rr)	1030	1500	17.00	18	18	18	16				552	260	928	51	48	288	0.4	188	464	26.9	9.1		2
S91PX(rr)	1600	2692	12.25	15	15	15	15	15	18	18	703	202	1778	138	122	323	0.7	166	522	54.6	9.1	P.P	3
S91PX(rr)	2692	3635	12.25	15	15	15	15	15	18	18	700	209	1565	137	122	326	0.7	165	540	53.9	9.5		4
DS69HF+GV(rr)	3635	4229	12.25	15	15	15	18	18	18		700	248	1715	137	122	317	0.9	178	593	21.6	9.7		4
BD535	4229	4998	12.25	16	16	16	16	18	20	20	700	147	1794	137	122	322	0.5	136	460	35.0	9.8		4
BD535(rr)	4998	5313	12.25	16	16	16	16	18	20	20	650	127	1599	127	113	322	0.4	127	396	37.1	9.8		5
GTM-1	5323	5818	8.50	22	22	22					500	174	1845	259	190	350	0.9	144	368	22.0	10.6	P.P	6
DS110NSV	5818	5854	8.50	16	16	16	16	18	18		500	131	1351	259	190	350	0.7	125	320	36.0	10.6		7
DS110NSV(rr)	5854	6571	8.50	16	16	16	16	16	15		511	178	1610	265	195	353	0.9	142	389	39.8	11.1		7
DS110NSV(rr)	6571	6764	8.50	16	16	16	16	16	18		500	150	1989	259	190	350	0.8	130	349	8.4	11.1	P.P	8
GTM-1	6764	7331	8.50	22	22	24					480	150	1979	249	183	351	0.7	130	338	14.2	11.2	P.P	9
DS110NSV(rr)	7331	7865	8.50	16	16	16	18	18	18		420	99	1799	218	160	350	0.4	101	250	10.0	12.2	P.P	9
HP51AKPR	7865	8336	8.50	24	24	24					420	103	1448	218	160	348	0.4	102	258	6.9	12.5		10
GTM-18	8336	8655	8.50	24	24	24					400	93	1354	207	152	348	0.4	97	234	4.7	12.4		10
GTM-09	8655	9040	8.50	24	24	24					401	94	1421	208	153	354	0.4	97	237	5.4	12.5		10

BHA:

- B / B.Sub / 3Dc's1 / Xo / 8Dc's / Xo / 7 Hw's (1)
- B / B.Sub / 2Dc'1 / Stb / Dc1 / Xo / 8Dc's / Xo / 14Hw's(5") / Xo / 7Hw's(4 1/2") (2)
- B / P.P / Stb / F. Val / SNMDC / UBHO / 2NMDC / Dc's1 / Xo / 3Dc's / Xo / 6Hw's / Jar / 18 Hw's (3)
- B / NbStb / F.S / SNMDC / Stb / UBHO / NMDC / SNMDC / Stb / NMDC / Dc'1 / Xo / 3Dc's / Xo / 6Hw's / Jar / 18 Hw's (4)
- B / NbStb / F.S / UBHO / NMDC / SNMDC / Stb / NMDC / Stb / Dc'1 / Xo / 3Dc's / Xo / 6Hw's / Jar / 18 Hw's (5)
- B / P.P / Xo / F. Sub / SNMDC / UBHO / 2NMDC / 6Dc's / Xo / 6Hw's / Jar / 18 Hw's (6)
- B / NbStb / F. Sub / SNMDC / Stb / UBHO / NMDC / SNMDC / 6Dc's / Xo / 6Hw's / Jar / 18 Hw's (7)
- B / P.P / Xo / F. Sub / Stb / SNMDC / UBHO / 2NMDC / 6Dc's / Xo / 6Hw's / Jar / 18 Hw's (8)
- B / P.P / Stb / Xo / F. Sub / SNMDC / UBHO / 2NMDC / 6Dc's / Xo / 6Hw's / Jar / 18 Hw's (9)
- B / NbStb / F. Sub / SNMDC / SDc / Stb / Dc / Stb / 7Dc's / Xo / 6Hw's / Jar / 18 Hw's (10)

DRILLING MUD RECAP

WELL : LO6 -23

RIG: PEPESA # 48

			FUN.VISC	PLAST.	YIELD	GELS	FILTR.						ALKALINITY		CHLORIDE	CALCIUM	POTASIUM	REMARKS
DATE	DEPTH ft	W.T lb/gl	Sec/gat API	VISC cps	POINT lb/100ft2	10"/10' lb/100ft2	API cc	CAKE 1/32	SOLIDS % by vol	SAND %by vol	MBT lbs/bl	PI	Pm	Pf / Mf	mg/lts	mg/lts	mg/lts	
25-Apr	597	8.4	80															
26-Apr	597	8.4	80															Prehydrate - Gel
27-Apr	605	8.5	60	9	22	8 / 12						9.0						
28-Apr	1030	9	60	12	26	10 / 14						9.0						
29-Apr	1500	9.1	64	13	28	12 / 16						9.0						
30-Apr	1500	9	52	10	17	6 / 9						9.0						Prepared Flo-Drill
1-May	1500	8.6	55	10	17	6 / 9						9.0						
2-May	1500	8.7	50	14	20	6 / 8	7.4	1	2	0.10	5	10.8	1.40	.6/8	20,000	380	19,800	
3-May	1600	8.8	50	14	21	6 / 8	7.4	1	2	0.10	5	10.6	1.40	.6/8	20,000	380	19,800	
4-May	2318	8.9	50	14	26	8 /12	6.8	1	4	0.20	7.5	10.0	0.25	.1/4	24,000	200	21,200	
5-May	3190	9.3	51	17	25	8/14	6.6	1	5	0.30	15	9.1	0.10	.08/7	26,000	380	18,800	
6-May	3782	9.5	52	17	28	8/15	6.0	1	6	0.30	17.5	9.1	0.10	.06/5	28,000	320	18,700	Treatment w/Seal
7-May	4229	9.7	52	16	27	8/16	5.8	1	7	0.40	20	9.3	0.10	.05/5	26,000	280	18,200	
8-May	4752	9.8	53	19	27	8/17	5.6	1	8	0.40	20	9.1	0.10	.06/6	26,000	240	18,200	
9-May	5280	9.8	52	18	27	8/16	5.6	1	8	0.30	20	9.1	0.10	.05/35	28,000	280	17,800	
10-May	5313	9.9	54	19	28	8/17	5.4	1	8	0.40	22.5	9.3	0.15	.08/5	27,000	380	17,400	
11-May	5313	9.9	50	18	22	7/12	5.6	1	8	0.30	22.5	9.3	0.10	.05/35	25,000	320	17,200	
12-May	5313	9.5	50	14	20	7/10	5.6	1	5	0.20	12.5	11.0	1.20	.4/8	28,000	240	19,800	
13-May	5370	10.2	51	15	20	8/10	5.4	1	9	0.25	12.5	10.5	1.20	.5/9	28,000	240	19,800	
14-May	5854	10.4	54	16	24	8/12	5.4	1	11	0.30	12.5	10.0	0.80	.25/7	26,000	280	20,600	
15-May	6321	10.9	50	17	26	8/12	5.2	1	13	0.30	15	9.3	0.10	.05/25	26,000	240	19,200	
16-May	6571	10.9	52	17	27	8/13	5.2	1	13	0.30	15	9.1	0.10	.05/25	27,000	240	20,400	
17-May	6764	10.9	52	16	27	8/14	5.4	1	13	0.30	16	9.1	0.10	.05/35	26,000	320	18,800	
18-May	6852	10.9	51	17	27	8/15	5.2	1	13.5	0.30	17.5	9.1	0.10	.05/35	27,000	240	18,600	
19-May	7206	10.9	52	17	28	8/15	5.2	1	14	0.30	17.5	10.0	0.15	.08/4	28,000	240	19,200	Added Lube-100 (0.5% vol)
20-May	7331	11	51	17	27	8/15	5.2	1	14	0.30	17.5	10.0	0.15	.09/5	28,000	240	19,200	
21-May	7616	11	52	19	28	9/18	5.6	1	14	0.30	19	10.2	0.18	.1/85	28,000	320	18,200	
22-May	7770	11.4	53	20	28	10/18	5.6	1	16	0.25	20	10.5	0.90	.35/1.15	27,000	80	17,600	Treatment w/Baranex- Shale Check (0.5% vol)
23-May	7865	12	53	21	29	12/20	5.6	1	18	0.30	20	10.5	0.80	.25/1.2	26,000	80	17,400	
24-May	7996	12.1	54	21	28	9/19	5.4	1	18	0.25	19	10.4	0.40	.25/1.1	28,000	160	18,400	
25-May	8165	12.3	54	21	29	10/21	5.2	1	19	0.50	20	10.5	0.35	.2/9	27,000	160	17,800	
26-May	8229	12.3	54	21	29	10/21	5.2	1	19	0.50	20	10.5	0.30	.15/4	27,000	160	17,600	Treatment w/ Conqor- - 606 (0.5 lb/bl)
27-May	8307	12.3	55	23	29	10/22	5.0	1	19	0.40	20	10.5	0.75	.2/6	26,000	160	17,200	
28-May	8336	12.3	55	23	28	10/13	5.0	1	20	0.50	21	10.4	0.30	.15/7	25,000	160	16,600	Ind water: Hard:160 mg/lt. - Cl: 800 mg/lt
29-May	8419	12.3	55	23	27	9 /21	5.0	1	19	0.40	20	10.5	0.35	.2/9	29,000	160	18,200	
30-May	8520	12.3	55	23	28	10 /23	5.0	1	20	0.50	20	10.5	0.35	.2/8	29,000	180	17,800	
31-May	8570	12.3	56	23	28	10 /22	5.0	1	20	0.50	20	10.5	0.60	.2/1.1	29,000	180	17,500	
1-Jun	8585	12.3	56	23	28	10 /24	5.0	1	20	0.50	20	10.4	0.50	.2/1.1	28,000	180	17,500	Treatment w/Bisulfito Amonio (OS- 3020)
2-Jun	8654	12.3	58	23	28	10 /24	5.0	1	20	0.50	20	10.5	0.60	.3/1.2	29,000	200	17,000	Secuestrador O2.

3-Jun	8730	12.3	59	23	29	10 /24	5.0	1	20	0.30	20	10.5	0.60	.3 /1.2	27,000	200	17,000	
4-Jun	8855	12.3	59	23	29	10 /24	5.0	1	20	0.60	20	10.5	0.60	.3 /1.2	27,000	200	17,000	
5-Jun	8940	12.3	60	24	32	10 /26	5.0	1	21	0.60	22.5	10.5	0.60	.25 / 1.2	26,500	200	16,500	Added Lube-100
6-Jun	9040	12.4	60	24	30	10 /26	5.0	1	21	0.60	22.5	10.5	0.80	.3 /1.2	26,500	200	16,500	Excess Bisulfite 80 ppm
7-Jun	9040	12.4	62	24	32	10 /27	5.0	1	21	0.60	22.5	10.5	0.80	.3 /1.2	26,500	200	16,000	
8-Jun	9040	12.4	62	24	32	12 / 28	5.0	1	22	0.60	22.5	10.5	0.70	.25 /1.2	26,500	200	16,000	Logs.
9-Jun	9040	12.4	58	24	26	10 / 25	5.0	1	22	0.60	22.5	10.5	0.70	.25 /1.2	26,000	200	16,000	

PRODUCTS USED SUMMARY

7500 Bbls of mud build

	COST UNT	QUANTITY	COST
BARANEX	37.87	40	1,514.80
BARITINE	6.40	3480	22,272.00
CALCIUM CARBONATE	2.08	80	166.40
CAUSTIC POTASH (KOH)	22.24	78	1,734.72
CAUSTIC SODA	14.13	95	1,342.35
CONQOR 606	44.50	26	1,157.00
IDF-FLR-XL	118.50	128	15,168.00
INDUSTRIAL WATER (bbl)	1.05	5950	6,247.50
FLOVIS	221.73	164	36,363.72
KLA-GARD	758.79	24	18,210.96
LIME	8.40	52	436.80
LUBE 100	408.00	16	6,528.00
MI GEL	7.28	280	2,038.40
MSP-4	29.85	40	1,194.00
OS-3020 BISULFITE DE AMO	238.00	5	1,190.00
PAC PLUS R	137.35	88	12,086.80
POTASSIUM CHLORIDE	20.64	608	12,549.12
SHALE CHECK	40.63	110	4,469.30
SODIUM BICARBONATE	10.12	33	333.96
X-CIDE 207	69.74	36	2,510.64

Total Product Cost 147,514.47

Cost per foot 16.32

Cost per bbl 19.67

CASING AND CEMENTING POINTS

WELL : LO6 - 23

CASING SIZE O.D	DESCRIPTION	POINT (ft)	CENTRA- LIZERS	SLURRY	DATE	RETURN (bbls)
18"	Pipe steel weld: 70.59 #/ft (Thickness 0.3750)	597'		250 sx cmt + 15 sx Gilsonite + 2% CaCl ₂ + 0.5 gl/ 10bls FP-6L (15.6 ppg)	Apr.27.01	
13 3/8"	K-55; 53.5 #/ft, STC	F.C: 1454' Shoe: 1500'	8	350sx cmt (6% Gel) + 0.5 gl/ 10bls FP-6L (13.5 ppg) 500sx neat cmt + 0.5 gl/ 10bls FP-6L + 1% CaCl ₂ (15.6 ppg)	Apr.30.01	40
9 5/8"	N-80; 43.5 #/ft, LTC	F.C: 5216' Shoe: 5313'	20	10 bbls Mud Clean (8.9 ppg) 200cmt(4%Gel)+1.2%FL-62+0.6%CD-32+0.03%R-3+0.5 gl/10blsFP-6L -13.5ppg 650 sx cmt (6% Gel) + 0.6% FL-62 + 0.5 gl/ 10bls FP-6L 13.5 ppg 600sx neat cmt+ 0.3% R-3 + 0.5 gl/ 10bls FP-6L (15.5 ppg)	May.11.01	30
5 1/2"	N-80; 17.0 #/ft; LTC	F.C: 8189' Shoe: 8275'	30	20 bls. Mud Clean (8.9 ppg) 40 bls. Mud Sweep (3 #/gl) 550 sx cmt (4% Gel) + 1% FL-62 + 0.35% CD-32 + 0.5gl/ 10bl FP-6L (14.1ppg) 350 sx cmt (2% Gel) + 1.3% BA-56 (14.1 ppg) 400 cmt + 0.75% BA-56 + 0.4% CD-32 + 0.15% R-3 + 0.5 gl/10bl FP-6L (15.6ppg)	Jun.09.01	-
					Cement Top: 4650'	

DOWN HOLE MOTOR CONTROL

WELL : LO6 - 23

RIG : PEPESA 8

WELL TYPE: DEVELOPMENT

SPUD IN DATE : APR. 24 - 2001

T.D. : 9040'

T.D. REACHED : JUN. 06 - 2001

SLIM - 1 Hrs.: 413

RUN N°	DOWN HOLE MOTOR TYPE	DEPTH			FOOT	CUM FOOT.	ROT HRS	OTHER HRS	CUM HRS.	BIT				PUMP PRESS.	GPM	FORMAT.	REMARK
		SIZE	IN	OUT						SIZE	TYPE	WOB	RPM				
1	A800XP	8	1600	2692	1092	1092	20	2.5	22.5	12 1/4	S91PX	15/18	PP/60	1550	703	CHACRA	Build curve 4°/100'
2	A675XP7850	6 3/4	5323	5818	495	1587	22.5	1.5	24.0	8 1/2	GTM-1	25/30	PP/60	1500	500	PALEGREDA	Build curve 2°/100'
3	A675XP7850	6 3/4	6571	6764	193	1780	23	1	48.0	8 1/2	DS110NSV	5/10	PP/80	1700	500	S. CRIST.	Not helping to turn
4	A675XP7850	6 3/4	6764	7331	567	2347	40	3.5	91.5	8 1/2	GTM-1	28	PP/60	1750	480	S. CRIST.	Pat center
5	A675XP7850	6 3/4	7331	7865	534	2881	53.5	10	155.0	8 1/2	DS110NSV	30	PP/70	1910	420	S. CRIST.	Hit very near

(1) 8" XP PP MOTOR (1.73° ABH, 12 1/8" BRG STB)

(2) 6 3/4" XP PP MOTOR (1.50° ABH, 8 3/8" BRG STB)

(3) 6 3/4" XP PP MOTOR (1.59° ABH, 12 1/8" BRG STB)

(4)/(5) 6 3/4" XP PP MOTOR (1.50° ABH, 12 1/8" BRG STB)

DRILLING RECORD DRILLED WELL SUMMARY

WELL : LO6 - 23	CONTRACTOR : PEPESA	RIG : P-48	LOCATION : LOBITOS	API : 2211101
WELL TYPE : DEVELOPMENT	TOTAL DEPTH : 9040'			
OBJECTIVE : BASAL SALINA	DATE TO REACH : JUN. 06-2001	PENET. RATE (ft/hr) : 18	COMPLET. DATE : JUN. 12-2001	ESTIM. COST : \$ 1'451,680
SPUD IN DATE : APR. 24 -2001	DAYS : 44	FT/DAY : 260	RELEASED RIG : JUN. 14 -2001	ACTUAL COST : \$ 1'509,300

PHASE	18" CONDUCTOR	SURFACE (13 3/8")	INTERMED (9 5/8")	PRODUCTION (5 1/2")	TOTALS
WELL DATA					
DEPTH ESTIM / REAL	585 597	1500 1500	5200 5313	8720 9040	8720 9,040
DAYS ESTIM / REAL	1 1.25	3.5 4.75	10 10.25	15.5 27.75	30 44
AVG. FT/DAY ESTIM / REAL	250 175	457.5 516	462.5 610	282 150	357 235
COND TOP - GUIDE SHOE	597	1500	5313	8275	8275
BITS USED - 17" N/RR	1RR	2RR			3RR
BITS USED - 12 1/4" N/RR			4RR		4RR
BITS USED - 8 1/2" N/RR				7N / 1R	7N / 1R
GPM - PRESSURE - HSI INITIAL		552 743 0.2	703 1778 0.7	500 1845 0.9	
GPM - PRESSURE - HSI FINAL	550 823 0.6	552 928 0.4	650 1599 0.4	401 1421 0.4	
FORMATIONS	TALARA	TALARA	AL-CHAC- R. BRAV -PALEG	PALEG- S. CRIST- B. SALIN	
MUD COMP	SEA WATER	POLYMER	FLO-DRILL	FLO-DRILL	
WT - VISC - FILT (INIT/FINAL)	8.4 80	8.5 - 9.1 60 - 64	11 - 9.9 64 - 54 7.4 - 5.4	9.9 - 12.4 50 - 60 5.6 - 5	
PV - YP - PH (INIT/ FINAL)		9 - 13 22 - 28 9	13 - 19 28 9.4	18 - 24 28 - 30 10.5	
PM - PF - SOLIDS (INIT /FINAL)			1.4 - 0.15 .6 - 0.08 2 - 8	0.1 - 0.6 .4 - .25 8 - 20	
TOTAL MUD COST	567	2463.5	66,741.60	77,742.37	147,514.47
MUD COST BY FOOT	2.16	2.73	17.50	20.86	16.32
ANGLE - DIRECT DEPTH (INIT)			1.5 N42E 1537	19.2 S29W 5346	
ANGLE - DIRECT DEPTH (FINAL)			17 S28W 5274	21.7 S29W 9010	
SIZE - TYPE - CSG. WT	18" Pipeline 70.59	13 3/8" K-55 53.5	9 5/8" N-80 43.5	5 1/2" N-80 17	
CMT sx - CENTRLIZ - RET BBLs	250 - -	850 8 40	1250 20 30	1300 30 T:4650'	
TIME BREAKDOWN (HRS)					
MOVING	RAN COND	DRIV COND			65 23.5
ROTATING	TRIPS	CIRC			512 307.5 37
REAMING	RUN CSG	FISHING			26.5 25.5
CEMENT	NIPP BOPS	WOC			19.5 39 44.5
CUT CABLE	DIRECTION	LOGS			5.5 9.5 39
PLUGS	DRESS CMT	STUCK PIPE			6.5
MILL CSG	COMPLET	OTHERS			91 12
REPAIRS	MAINTEN	DOWNTIME			15.5 1.5 7
TOTAL HOURS	163	117.5	234.5	772.5	1,287.5
OTHERS					
WORKING W/DOWN HOLE MOTOR (HRS)			20	139	159
WORKING W/SLIM 1 (HRS)			155.25	260.75	416
MAX ANGLE			19.9	31.4	

Survey Report - Standard

Report Date: 09-Jun-2001	Survey / DLS Computation Method: Minimum Curvature / Lubinski
Client: Petro-Tech Peruana S.A.	Vertical Section Azimuth: 213.800°
Field: Lobitos	Vertical Section Origin: N 0.000 ft, E 0.000 ft
Structure / Slot: Platform LO6 (WGS84) / Slot #23	TVD Reference Datum: KB
Well: Well LO6-23	TVD Reference Elevation: 50.000 ft relative to MSL
Borehole: Borehole LO6-23	Sea Bed / Ground Level Elevation: 0.000 ft relative to MSL
UWI / API#:	Magnetic Declination: +1.516°
Survey Name / Date: LO6-23 MWD Survey / May 10, 2001	Total Field Strength: 28875.250 nT
Tort / AHD / DDI / ERD ratio: 103.371° / 3050.76 ft / 5.533 / 0.366	Magnetic Dip: 14.828°
Grid Coordinate System: UTM Zone 17S - WGS84, Meters	Declination Date: May 10, 2001
Location Lat / Long: S 4 26 42.554, W 81 22 8.641	Magnetic Declination Model: BGGM 2000
Location Grid N/E Y/X: N 9508656.830 m, E 459054.520 m	North Reference: True North
Grid Convergence Angle: +0.02860485°	Total Corr Mag North -> True North: +1.516°
Grid Scale Factor: 0.99962075	Local Coordinates Referenced To: Well Head

Station ID	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSec (ft)	N-S (ft)	E-W (ft)	Closure (ft)	at Azim (°)	DLS (°/100ft)	TF (°)
Tie-In	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		42.0 M
13 3/8" shoe @ 1500'	1537.00	1.50	42.00	1536.82	-19.91	14.95	13.46	20.12	42.00	0.10	-148.8 M
	1681.00	5.60	211.20	1680.64	-14.75	10.34	11.08	15.15	46.99	4.92	2.9 G
	1745.00	9.60	212.40	1744.06	-6.29	3.16	6.60	7.32	64.45	6.25	10.1 G
	1837.00	14.60	215.90	1833.99	12.97	-12.72	-4.32	13.44	198.73	5.49	-3.1 G
	1901.00	17.40	215.40	1895.51	30.60	-27.06	-14.59	30.74	208.33	4.38	-56.9 G
	1962.00	18.70	209.60	1953.51	49.48	-43.00	-24.71	40.50	200.88	3.00	-51.5 G
	1993.00	19.70	206.00	1982.79	59.61	-52.02	-29.45	59.78	209.52	5.00	0.0 G
	2056.00	22.40	206.00	2041.58	82.03	-72.35	-39.37	82.37	208.55	4.29	37.8 G
	2119.00	25.30	211.10	2099.20	107.37	-94.68	-51.59	107.82	208.59	5.64	16.4 G
	2182.00	28.20	212.90	2155.45	135.71	-118.71	-66.63	136.13	209.31	4.78	25.5 G
	2245.00	28.40	213.10	2210.92	165.58	-143.76	-82.90	165.95	209.97	0.35	-102.3 G
	2338.00	28.30	212.10	2292.76	209.73	-180.96	-106.69	210.07	210.52	0.52	59.7 G
	2400.00	28.70	213.50	2347.25	239.30	-205.82	-122.72	239.63	210.80	1.26	75.2 G
	2463.00	29.00	215.70	2402.43	269.69	-230.84	-139.98	269.97	211.23	1.75	78.8 G
	2524.00	29.10	216.70	2455.76	299.29	-254.74	-157.47	299.48	211.72	0.81	-146.3 G
	2587.00	28.60	216.00	2510.94	329.66	-279.22	-175.49	329.79	212.15	0.96	-139.0 G
	2697.00	27.60	214.10	2607.98	381.45	-321.63	-205.25	381.54	212.55	1.22	-125.9 G
	2791.00	27.50	213.80	2691.32	424.92	-357.69	-229.53	425.00	212.69	0.18	180.0 G
	2949.00	26.70	213.80	2831.97	496.90	-417.50	-269.57	496.97	212.85	0.51	-127.1 G
	3106.00	26.40	212.90	2972.41	567.07	-476.12	-308.15	567.14	212.91	0.32	-99.2 G
	3263.00	26.30	211.40	3113.10	636.72	-535.11	-345.24	636.81	212.83	0.43	-132.4 G
	3421.00	26.10	210.90	3254.87	706.40	-594.81	-381.32	706.54	212.66	0.19	131.0 G
	3579.00	25.80	211.70	3396.94	775.48	-653.89	-417.24	775.66	212.54	0.29	-147.1 G
	3704.00	25.60	211.40	3509.57	829.64	-700.08	-445.60	829.86	212.48	0.19	-142.4 G
	3830.00	25.00	210.30	3623.49	883.42	-746.30	-473.22	883.69	212.38	0.60	152.6 G
	3988.00	24.60	210.80	3766.92	949.58	-803.38	-506.90	949.93	212.25	0.29	-168.6 G
	4113.00	23.80	210.40	3880.93	1000.74	-847.48	-532.99	1001.15	212.17	0.65	-161.0 G
	4270.00	22.90	209.60	4025.07	1062.83	-901.37	-564.10	1063.33	212.04	0.61	-171.5 G
	4426.00	21.20	208.90	4169.66	1121.21	-952.45	-592.73	1121.83	211.89	1.10	-169.6 G
	4581.00	19.90	208.20	4314.79	1175.39	-1000.24	-618.74	1176.15	211.74	0.85	180.0 G
	4739.00	18.50	208.20	4464.00	1227.10	-1046.03	-643.30	1228.01	211.59	0.89	174.9 G

4896.00	16.30	208.90	4613.81	1273.85	-1087.28	-665.72	1274.89	211.48	1.41	-165.0 G
5036.30	15.60	208.20	4748.70	1312.24	-1121.14	-684.15	1313.40	211.39	0.52	0.0 G
5099.33	15.70	208.20	4809.40	1329.16	-1136.12	-692.18	1330.37	211.35	0.16	0.0 G
5162.10	16.10	208.20	4869.77	1346.27	-1151.28	-700.31	1347.54	211.31	0.64	-26.5 G
5225.00	16.50	207.50	4930.14	1363.83	-1166.89	-708.55	1365.17	211.27	0.71	22.3 G
5274.00	17.00	208.20	4977.06	1377.88	-1179.37	-715.15	1379.26	211.23	1.10	11.9 G
5346.00	19.20	209.60	5045.49	1400.16	-1198.95	-725.97	1401.61	211.20	3.11	44.3 G
5478.00	22.80	218.10	5168.73	1447.34	-1237.97	-752.49	1448.73	211.29	3.57	110.6 G
5507.00	22.70	218.80	5195.48	1458.52	-1246.75	-759.46	1459.85	211.35	1.00	17.3 G
5538.60	23.60	219.50	5224.53	1470.89	-1256.38	-767.31	1472.16	211.41	2.98	-110.7 G
5597.00	23.30	217.40	5278.11	1494.05	-1274.58	-781.76	1495.23	211.52	1.52	72.9 G
5629.00	23.40	218.20	5307.49	1506.70	-1284.60	-789.53	1507.83	211.58	1.04	-18.3 G
5660.00	24.40	217.40	5335.83	1519.23	-1294.53	-797.23	1520.32	211.63	3.39	-9.1 G
5723.00	26.63	216.60	5392.68	1546.32	-1316.20	-813.55	1547.34	211.72	3.58	22.7 G
5753.00	27.63	217.50	5419.38	1559.98	-1327.12	-821.80	1560.96	211.77	3.60	58.9 G
5799.00	27.80	218.10	5460.10	1581.32	-1344.02	-834.91	1582.24	211.85	0.71	180.0 G
5862.00	27.30	218.10	5515.96	1610.38	-1366.95	-852.89	1611.20	211.96	0.79	180.0 G
5957.00	27.20	218.10	5600.42	1653.75	-1401.18	-879.73	1654.46	212.12	0.11	-115.9 G
6051.00	26.90	216.70	5684.13	1696.41	-1435.14	-905.69	1697.03	212.26	0.75	-119.4 G
6145.00	26.70	215.90	5768.04	1738.75	-1469.29	-930.79	1739.31	212.35	0.44	-99.7 G
6240.00	26.60	214.50	5852.95	1781.35	-1504.11	-955.35	1781.86	212.42	0.67	-108.4 G
6335.00	26.40	213.10	5937.97	1823.73	-1539.33	-978.93	1824.24	212.45	0.69	-108.8 G
6428.00	26.10	211.00	6021.38	1864.84	-1574.19	-1000.76	1865.36	212.45	1.05	90.0 G
6459.00	26.10	211.10	6049.22	1878.47	-1585.87	-1007.79	1879.00	212.44	0.14	-90.0 G
6490.00	26.10	210.30	6077.05	1892.08	-1597.60	-1014.75	1892.63	212.42	1.14	-90.0 G
6516.00	26.10	209.60	6100.40	1903.50	-1607.51	-1020.46	1904.06	212.41	1.18	0.0 G
6540.00	26.10	209.60	6121.96	1914.03	-1616.69	-1025.68	1914.60	212.39	0.00	0.0 G
6572.00	26.20	209.60	6150.68	1928.09	-1628.95	-1032.64	1928.69	212.37	0.31	90.0 G
6603.00	26.20	209.90	6178.50	1941.74	-1640.84	-1039.44	1942.36	212.35	0.43	-24.0 G
6664.00	26.40	209.70	6233.18	1968.70	-1664.29	-1052.87	1969.36	212.32	0.36	-146.5 G
6700.00	26.20	209.40	6265.45	1984.61	-1678.17	-1060.73	1985.30	212.30	0.67	-65.9 G
6729.00	26.30	208.90	6291.46	1997.40	-1689.37	-1066.98	1998.10	212.28	0.84	83.0 G
6791.00	26.60	213.20	6346.98	2024.96	-1713.01	-1081.22	2025.69	212.26	3.13	96.9 G
6885.00	26.40	219.40	6431.12	2066.81	-1746.77	-1106.01	2067.48	212.34	2.95	-155.0 G
6916.00	25.84	218.80	6458.95	2080.40	-1757.36	-1114.62	2081.04	212.39	2.00	0.0 G
6979.00	26.30	218.80	6515.54	2107.98	-1778.94	-1131.97	2108.55	212.47	0.73	19.6 G
7011.00	27.20	219.50	6544.12	2122.32	-1790.11	-1141.07	2122.86	212.51	2.98	58.4 G
7043.00	27.40	220.20	6572.55	2136.92	-1801.38	-1150.47	2137.41	212.56	1.18	126.1 G
7074.00	27.30	220.50	6600.09	2151.07	-1812.23	-1159.69	2151.53	212.62	0.55	-164.9 G
7105.00	26.80	220.20	6627.70	2165.07	-1822.97	-1168.82	2165.50	212.67	1.67	122.8 G
7136.00	26.60	220.90	6655.39	2178.90	-1833.56	-1177.87	2179.29	212.72	1.20	122.9 G
7167.00	26.40	221.60	6683.14	2192.62	-1843.96	-1186.99	2192.97	212.77	1.20	134.4 G
7198.00	26.10	222.30	6710.94	2206.19	-1854.16	-1196.16	2206.51	212.83	1.39	0.0 G
7230.00	26.40	222.30	6739.64	2220.19	-1864.62	-1205.68	2220.47	212.89	0.94	38.4 G
7262.00	26.80	223.00	6768.25	2234.35	-1875.16	-1215.39	2234.59	212.95	1.59	180.0 G
7293.00	26.70	223.00	6795.93	2248.12	-1885.37	-1224.91	2248.33	213.01	0.32	-46.8 G
7388.00	27.00	222.30	6880.69	2290.52	-1916.92	-1253.98	2290.65	213.19	0.46	-134.3 G
7482.00	26.40	220.90	6964.67	2332.36	-1948.50	-1282.02	2332.43	213.34	0.92	-134.4 G
7576.00	26.10	220.20	7048.98	2373.64	-1980.09	-1309.05	2373.68	213.47	0.46	-30.3 G
7670.00	27.20	218.80	7132.99	2415.60	-2012.63	-1335.86	2415.61	213.57	1.35	-23.5 G
7764.00	29.60	216.70	7215.67	2460.19	-2047.99	-1363.20	2460.20	213.65	2.77	-26.8 G
7796.00	30.30	216.00	7243.40	2476.15	-2060.86	-1372.67	2476.16	213.67	2.44	-39.1 G
Start Multishot Survey	7880.00	31.40	214.30	7315.51	2519.21	-2096.08	2519.21	213.69	1.67	176.8 G

7973.00	30.50	214.40	7395.27	2567.04	-2135.57	-1424.44	2567.04	213.70	0.97	-149.9 G
8068.00	29.90	213.70	7477.38	2614.82	-2175.16	-1451.20	2614.82	213.71	0.73	175.4 G
8162.00	28.70	213.90	7559.35	2660.82	-2213.39	-1476.79	2660.83	213.71	1.28	155.2 G
8256.00	26.50	216.20	7642.65	2704.35	-2249.05	-1501.77	2704.35	213.73	2.60	-164.1 G
8351.00	25.30	215.40	7728.11	2745.82	-2282.70	-1526.04	2745.82	213.76	1.32	-108.8 G
8445.00	24.90	212.40	7813.23	2785.68	-2315.78	-1548.28	2785.68	213.77	1.42	-174.2 G
8539.00	24.10	212.20	7898.77	2824.65	-2348.73	-1569.11	2824.65	213.75	0.86	-150.5 G
8633.00	23.20	210.90	7984.88	2862.33	-2380.86	-1588.85	2862.33	213.72	1.11	-143.0 G
8727.00	22.40	209.30	8071.53	2898.68	-2412.37	-1607.12	2898.68	213.67	1.08	-168.1 G
8822.00	21.70	208.90	8159.58	2934.22	-2443.53	-1624.47	2934.23	213.62	0.75	180.0 G
8916.00	21.20	208.90	8247.07	2968.47	-2473.62	-1641.08	2968.49	213.56	0.53	27.4 G
9010.00	21.70	209.60	8334.56	3002.73	-2503.61	-1657.88	3002.77	213.51	0.60	---

Survey Error Model: Wolff & deWardt 1.0000 sigma

Surveying Programme:

MD From (ft)
0.00

MD To (ft) EOU Freq Survey Tool Type
9010.00 Act-Stns Anadrill MWD

WELL L06-23		FIELD Lobitos		STRUCTURE Platform L06 (WGS84)	
Magnetic Parameters Model BOGM2000 Dip 14.931° Date 28/07/97 Year 1977		Surface Location UTM Zone 17S - WGS84, Malawi Northing 960856.83 m Easting 458054.52 m Lat. S1 29.41.554 Lon. W91 22.8.841		Miscellaneous Grid Cont. +0.02604465° Scale Fact. 0.99983075 Skit S1023 Point # L06-23.H007	
				TxD Ref. K6 (50.033 above MSL) Date Drawn 10.02.75AM 11-Jun-2001	

