Well coordinates (origin Bogota)

East (m)	North (m)	RT Elev. [ft] @msl	GL Elev. [ft] @msl
459054.5	9508656.8	49	0

Source coordinates (origin Bogota)

East (m)	North (m)	Elevation [ft] @msl
459054.6	9508672.1	-5

Datum [m amsl] 0.0

PETRO-TECH PERUANA S.A.

LO6-23
CHECK-SHOT
FINAL VELOCITY REPORT

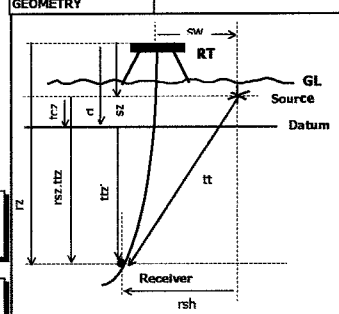
Date of run: **JUN 7, 2001** Date of report delivery: **JUN 29, 2001**

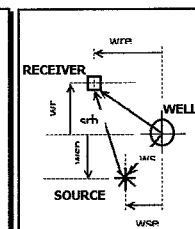
Replacement Velocity (constant) [ft/s]	rv=	5000
Seismic Reference Datum from RT (constant) [ft]	d=	49.0
Vertical Distance from RT to Source (constant) [ft]	sz=	54.0
Eastwards Horizontal Offset from Wellhead to Source (constant) [ft]	wse=	0.3
Northwards Horizontal Offset from Well to Source (constant) [ft]	wsn=	50.2

Well to Source offset: [ft] **50.2**

Well to Source azimuth: [deg] **0.4**

GENERAL GEOMETRY





SOURCE: Air Gun
TOOL: SAT-B
ACQ. SYSTEM: MAXIS 500
CONTRACTOR: Schlumberger
WITNESS: V. Delgado
REC. by: Claudia Delgado

DISTRIBUTION LIST:

1.
2.
3.
4.
5.

DEFINITIONS TABLE

RT: Rotary Table
GL : Ground Level
RV: replacement velocity [f/s]
d : Vertical distance from RT to Datum
sz : Vertical Distance from RT to Source
rz : Vertical Distance from RT to Receiv.

wsh : Horizontal Distance from Source to Wellhead
wse : East offset from Source to Wellhead
wsn : North offset from Source to Wellhead
wre : East offset from Receiver to Wellhead
wrn : North offset from Receiver to Wellhead
srh : Horizontal Distance from Source to Receiver

tt :Travel Time from Source to Receiver
ttz :Vertical Travel Time from Source to Receiver
tcz :Vertical Correction Time from Source to Datum
ttz' :Vertical Travel Time from Datum to Source
av :Average Velocity from Datum
iv : Interval Velocity

SIGN CONVENTION:
Eastwards, Northwards and Downwards distances are positive.
Downwards time is positive.

NOTE:
Unless it be specified, all distances are in feet from RT.

Vertical Correction Time from Source to Datum [ms]	tcz=	-1.0

Datum [m amsl]=> 0.0

TAKING INTO ACCOUNT MWD DEVIATION DATA

Tops (Comments)		Receiver Vertical Depth (Deviation Survey) [f]	East Offset from Well to Receiver (Deviation Survey) [f]	North Offset from Well to Receiver (Deviation Survey) [f]	Horizontal Offset from Source to Receiver (computed) [f]	Vertical Offset from Source to Receiver (computed) [f] +5	* Bad pick (?)	Travel Time from Source to Receiver (measured) [ms]	Vertical Travel Time from Source to Receiver (computed) [ms]	Vertical Travel Time from Datum (computed) [f]	Average Velocity from Datum (computed) [f/s]	Interval Velocity (computed) [f/s]
	r	rz	wre	wrn	srh	srz		tt	ttz	ttz'	av	iv
	498.0	497.99	1.41329	1.56962	48.6	444.0		77.31	76.8	77.8	5,768	
												544
	499.0	498.99	1.41897	1.57593	48.6	445.0		79.15	78.7	79.7	5,647	
												8,422
	1000.0	999.95	5.69857	6.32889	44.2	946.0		138.32	138.2	139.2	6,833	
												8,481
	1575.0	1574.82	13.78571	15.17322	37.5	1520.8		206.01	206.0	207.0	7,373	
												7,897
	2000.0	1989.37	-30.49302	-54.15422	108.8	1935.4		258.85	258.4	259.4	7,479	
												8,619
2490@Chacra	2492.0	2427.79	-148.23744	-242.23157	328.0	2373.8		312.25	309.3	310.3	7,666	
												10,324
	2999.0	2876.66	-282.00555	-436.16913	562.4	2822.7		359.73	352.8	353.8	9,504	
												10,155
3592@ R.Bravo	3595.0	3411.35	-420.89294	-659.80939	825.6	3357.3		417.52	405.4	406.4	9,534	
												12,621
	4160.0	3923.98	-542.50055	-863.77148	1063.0	3870.0		462.58	446.1	447.1	9,679	
												13,019
	4646.0	4376.02	-629.05328	-1019.46661	1241.1	4322.0		500.21	480.8	481.8	10,302	
5146 Talegeda												12,143
	5311.0	5012.33	-720.49695	-1189.17810	1433.7	4958.3		555.03	533.2	534.2	9,713	
												13,088
	5553.0	5237.73	-770.95319	-1260.84167	1521.1	5183.7		573.61	550.4	551.4	9,963	
												11,755
5869@ Magallan	5892.0	5542.62	-861.37799	-1377.77405	1667.8	5488.6		602.36	576.3	577.3	10,211	
6340@ S.Cristobal	6342.0	5944.24	-980.62622	-1541.94043	1870.1	5890.2		638.27	608.3	609.3	9,675	
												12,129
	6799.0	6354.13	-1083.19910	-1715.99463	2072.1	6300.1		675.98	642.1	643.1	9,804	
												11,648
	7300.0	6802.18	-1227.10000	-1887.66699	2293.9	6748.2		718.85	680.6	681.6	9,908	
												10,762
	7782.0	7231.29	-1368.50000	-2055.18091	2511.2	7177.3		763.30	720.5	721.5	9,955	
7902@ Upper Basin												14,870
	8083.0	7490.39	-1455.30000	-2181.40000	2664.4	7436.4		783.83	737.9	738.9	10,071	
												10,581
	8263.0	7648.90	-1503.60000	-2251.60000	2749.6	7594.9		800.70	752.9	753.9	10,081	
8445@ Lw Basin												14,231
	8841.0	8177.20	-1627.90000	-2449.70000	2983.4	8123.2		841.60	790.0	791.0	10,276	
												10,969
	9000.0	8325.30	-1656.10000	-2500.40000	3041.3	8271.3		856.10	803.5	804.5	10,287	
9040@ TD												10,294

PETRO-TECH PERUANA S.A.

LO6-23
CHECK-SHOT
FINAL VELOCITY REPORT

Date of run: **JUN 7, 2001**

Date of report delivery: **JUN 29, 2001**

Well coordinates (origin Bogota)

East (m)	North (m)	RT Elev. [ft] @msl	GL Elev. [ft] @msl
459054.5	9508656.8	49	0

Source coordinates (origin Bogota)

East (m)	North (m)	Elevation [ft] @msl
459054.6	9508672.1	-5

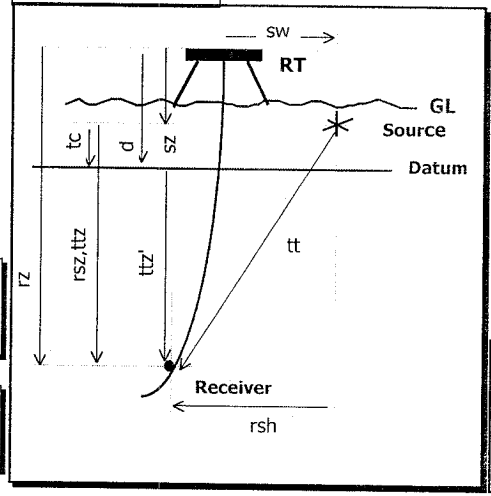
Datum [m amsl] 0.0

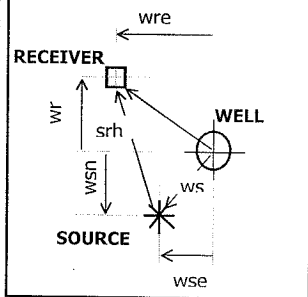
Replacement Velocity (constant) [ft/s]	**rv=**	5000
Seismic Reference Datum from RT (constant) [ft]	**d=**	49.0
Vertical Distance from RT to Source (constant) [ft]	**sz=**	54.0
Eastwards Horizontal Offset from Wellhead to Source (constant) [ft]	**wse=**	0.3
Northwards Horizontal Offset from Well to Source (constant) [ft]	**wsn=**	50.2

Well to Source offset: [ft] **50.2**

Well to Source azimuth: [deg] **0.4**

GENERAL GEOMETRY





DISTRIBUTION LIST:

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SOURCE: Air Gun
TOOL: SAT-B
ACQ. SYSTEM: MAXIS 500
CONTRACTOR: Schlumberger
WITNESS: V. Delgado
REC. by: Claudia Delgado

DEFINITIONS TABLE

RT: Rotary Table
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SIGN CONVENTION:
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Downwards time is positive.

NOTE:
Unless it be specified, all distances are in feet from RT.

Vertical Correction Time from Source to Datum [ms]	**tcz=**	**-1.0**

TAKING INTO ACCOUNT MWD DEVIATION DATA

Datum [m amsl]=>	**0.0**

TAKING INTO ACCOUNT MWD DEVIATION DATA

Tops (Comments)		Receiver Vertical Depth (Deviation Survey) [f]	East Offset from Well to Receiver (Deviation Survey) [f]	North Offset from Well to Receiver (Deviation Survey) [f]	Horizontal Offset from Source to Receiver (computed) [f]	Vertical Offset from Source to Receiver (computed) [f]	* Bad pick (?)	Travel Time from Source to Receiver (measured) [ms]	Vertical Travel Time from Source to Receiver (computed) [ms]	Vertical Travel Time from Datum (computed) [f]	Average Velocity from Datum (computed) [f/s]	Interval Velocity (computed) [f/s]
	r	rz	wre	wrn	srh	srz		tt	ttz	ttz'	av	iv
	498.0	497.99	1.41329	1.56962	48.6	444.0		77.31	76.8	77.8	5,768	
												544
	499.0	498.99	1.41897	1.57593	48.6	445.0		79.15	78.7	79.7	5,647	
												8,422
	1000.0	999.95	5.69857	6.32889	44.2	946.0		138.32	138.2	139.2	6,833	
												8,481
	1575.0	1574.82	13.78571	15.17322	37.5	1520.8		206.01	206.0	207.0	7,373	
												7,897
	2000.0	1989.37	-30.49302	-54.15422	108.8	1935.4		258.85	258.4	259.4	7,479	
												8,619
	2492.0	2427.79	-148.23744	-242.23157	328.0	2373.8		312.25	309.3	310.3	7,666	
												10,324
	2999.0	2876.66	-282.00555	-436.16913	562.4	2822.7		359.73	352.8	353.8	9,504	
												10,155
	3595.0	3411.35	-420.89294	-659.80939	825.6	3357.3		417.52	405.4	406.4	9,534	
												12,621
	4160.0	3923.98	-542.50055	-863.77148	1063.0	3870.0		462.58	446.1	447.1	9,679	
												13,019
	4646.0	4376.02	-629.05328	#######	1241.1	4322.0		500.21	480.8	481.8	10,302	
												12,143
	5311.0	5012.33	-720.49695	#######	1433.7	4958.3		555.03	533.2	534.2	9,713	
												13,088
	5553.0	5237.73	-770.95319	#######	1521.1	5183.7		573.61	550.4	551.4	9,963	
												11,755
	5892.0	5542.62	-861.37799	#######	1667.8	5488.6		602.36	576.3	577.3	10,211	
												12,549
	6342.0	5944.24	-980.62622	#######	1870.1	5890.2		638.27	608.3	609.3	9,675	
												12,129
	6799.0	6354.13	-1083.19910	#######	2072.1	6300.1		675.98	642.1	643.1	9,804	
												11,648
	7300.0	6802.18	-1227.10000	#######	2293.9	6748.2		718.85	680.6	681.6	9,908	
												10,762
	7782.0	7231.29	-1368.50000	#######	2511.2	7177.3		763.30	720.5	721.5	9,955	
												14,870
	8083.0	7490.39	-1455.30000	#######	2664.4	7436.4		783.83	737.9	738.9	10,071	
												10,581
	8263.0	7648.90	-1503.60000	#######	2749.6	7594.9		800.70	752.9	753.9	10,081	
												14,231
	8841.0	8177.20	-1627.90000	#######	2983.4	8123.2		841.60	790.0	791.0	10,276	
												10,969
	9000.0	8325.30	-1656.10000	#######	3041.3	8271.3		856.10	803.5	804.5	10,287	
												10,294

Mario Chavez

From: Emilio Sopprani [esopprani@bogota.oilfield.slb.com]
Sent: Friday, June 29, 2001 5:07 PM
To: chavezm@petro-tech.com.pe; vilca@petro-tech.com.pe; Pedro Blondet; jose Martinez; Jose Vasquez
Subject: Resultados Sismica para LO6-23

Lobo-6-23.xls

Señores

Adjunto sirvanse encontrar los resultados (Tabla de Verticalizaciones de Tiempo) para el pozo de la referencia.
Tan pronto se tengan los PDS files les seran enviados.
Por favor no duden en contactarse con nosotros (Jose Martinez) sobre cualquier duda al respecto.

Muchas Gracias

Emilio Sopprani
DCS - PCE

WELL FILE

LO6-23

Schlumberger

Survey Report - Standard

Report Date:	09-Jun-2001
Client:	Petro-Tech Peruana S.A.
Field:	Lobitos
Structure / Slot:	Platform LO6 (WGS84) / Slot #23
Well:	Well LO6-23
Borehole:	Borehole LO6-23
UWI / API#:	
Survey Name / Date:	LO6-23 MWD Survey / May 10, 2001
Tort / AHD / DDI / ERD ratio:	103.371° / 3050.76 ft / 5.533 / 0.366
Grid Coordinate System:	UTM Zone 17S - WGS84, Meters
Location Lat / Long:	S 4 26 42.554, W 81 22 8.641
Location Grid N/E Y/X:	N 9508656.830 m, E 459054.520 m
Grid Convergence Angle:	+0.02860485°
Grid Scale Factor:	0.99962075

Survey / DLS Computation Method:	Minimum Curvature / Lubinski
Vertical Section Azimuth:	213.800°
Vertical Section Origin:	N 0.000 ft, E 0.000 ft
TVD Reference Datum:	KB
TVD Reference Elevation:	50.000 ft relative to MSL
Sea Bed / Ground Level Elevation:	0.000 ft relative to MSL
Magnetic Declination:	+1.516°
Total Field Strength:	28875.250 nT
Magnetic Dip:	14.828°
Declination Date:	May 10, 2001
Magnetic Declination Model:	BGGM 2000
North Reference:	True North
Total Corr Mag North -> True North:	+1.516°
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	49.59	209.88	3.63	-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

CENTRAL FILE
Geosciences

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	-1397.45	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)	MD To (ft)	EOU Freq	Survey Tool Type
0.00	9010.00	Act-Stns	Anadrill MWD