



BORHOLE DIRECTION

BGN
1.200

COMPANY LAKES OIL NL

WELL LOY YANG 2

FIELD EXPLORATION

PROVINCE/COUNTY QUEENSLAND

COUNTRY/STATE AUSTRALIA

LOCATION 38° 15' 13" S, 146° 33' 31" E

LSD SEC TWP RGE Other Services DUAL LATEROLOG MICRO LATEROLOG ACOUSTIC SCANNER

API Number Permit Number PEP 166 COMPENSATED SONIC

Permanent Datum M.S.L. , Elevation metres

Log Measured From R.T@ 107.65 above Permanent Datum

Drilling Measured From R.T

Elevations:
KB 107.65 metres
DF 104.00 metres
GL 104.00 metres

Date 17-MAR-2006

Run Number TWO metres

Depth Driller 1443.00 metres

Depth Logger 1442.08 metres

First Reading 1440.90 metres

Last Reading 0.00 metres

Casing Driller 215.00 metres

Casing Logger 216.00 metres

Bit Size 6.13 inches

Hole Fluid Type KCL POLYMER

Density / Viscosity 1.04 g/cc

PH / Fluid Loss

Sample Source FLOWLINE

Rm @ Measured Temp 0.762 @ 25.0 ohm-m

Rmt @ Measured Temp 0.711 @ 25.0 ohm-m

Rmc @ Measured Temp 0.813 @ 25.0 ohm-m

Source Rmf / Rmc PIT PRESS

Rm @ BHT 0.363 @ 75.0 ohm-m

Time Since Circulation 7HRS

Max Recorded Temp 75.00 deg C

Equipment Name OILFIELD

Equipment / Base 8 SALE

Recorded By TIM HANSEN

Witnessed By TIM O'BRIEN, BEN EDWARDS

Circ. Stop 17:18/16-MAR

Last Line

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

Verticality Analysis Interpretation Notes

25-APR-2006 13:44

All plotted output is automatically scaled to obtain the best visual effect within the physical space available. The maximum scales being 1:50000(metric) and 1:48000(imperial), and the minimum 1:1.

The analysis is derived by integrating 10cm sampled data down the borehole. The listing supplied will contain a maximum of 200 points in multiples of 1, 2, 5, 10, 20, 50 or 100 metres/feet depending on the total range of the analysis. However, the analysis is calculated for the entire range of the borehole and the final borehole position is included in the listing.

Computed verticality may only be fully derived in open sections of the borehole, away from the influence of any unusual magnetic effects, (as the azimuth calculations are derived from three solid state magnetometers). So the analysis will generally begin at the end of the casing and all borehole positional information will relate to this depth.

Up to ten cross sections may be requested for any borehole to be displayed at any scale, (the default scale is that of the cross-section for the entire hole).

Borehole positional error is derived assuming the following parameters.

	TILT (degrees)	AZIMUTH (degrees)
Typical Error	+/- 0.1000	+/- 5.0000

Maximum Error

+/- 0.2000

+/- 8.0000

Error analysis may be calculated and plotted from the data listing as follows:

- Plot the four coordinates from the error listing (based upon zero azimuth error) on a target plot. Origin at the start of the analysis.
- Describe arcs of +/- 10.00 degrees and +/- 15.00 degrees (centre at the origin) through the inner and outer points respectively.
- Connect the respective arcs together with straight lines to give the typical and maximum borehole positional error.

Given below is a full description of the parameters displayed on the ensuing listing:

LOG DEPTH	The depth recorded on the field logs for the borehole.
TRUE DEPTH	The true vertical depth corresponding to the above depth. Corrected from the start of the analysis.
HOLE TILT AND AZIMUTH	The sampled borehole orientation.
AXIAL COORDINATES	The coordinates North and East from the target origin.
POLAR COORDINATES	The polar or radial coordinates of the borehole.
ERROR COORDINATES	The polar coordinates corresponding to the typical and maximum tilt error.

N.B. The reference point for all bearing angles on this listing is given at the top of each sheet.

Verticality Data Listing

C:\Data\Scanner\CDR\Depth\20.dta

All Co-ordinates With Respect To True North, all depths in metres

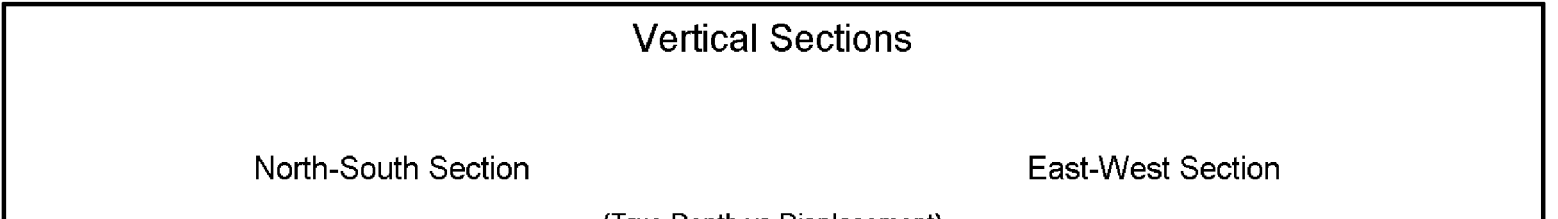
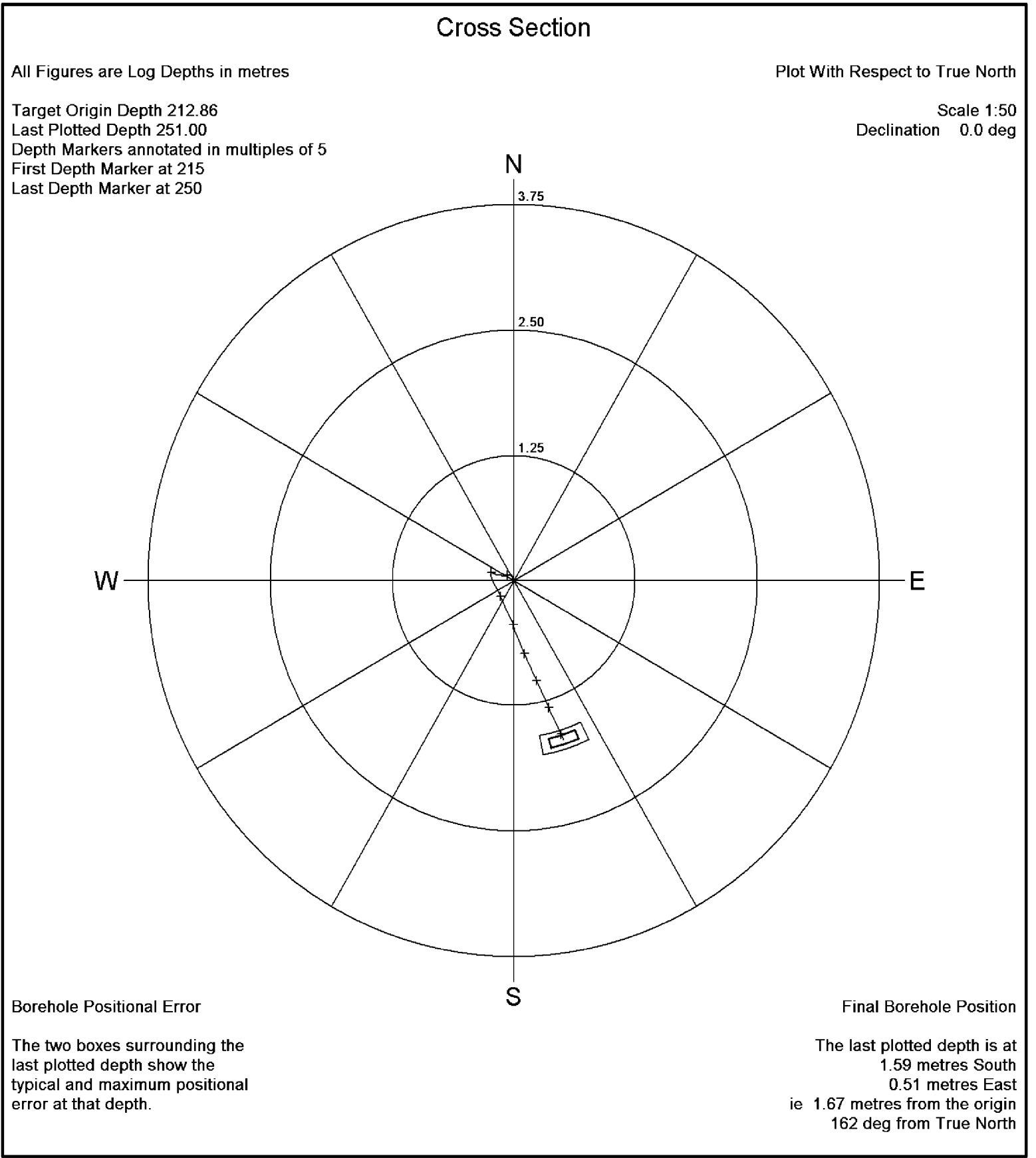
Date Processed: 25-APR-2006

First Depth 212.86, 0.00 North, 0.00 East of Origin

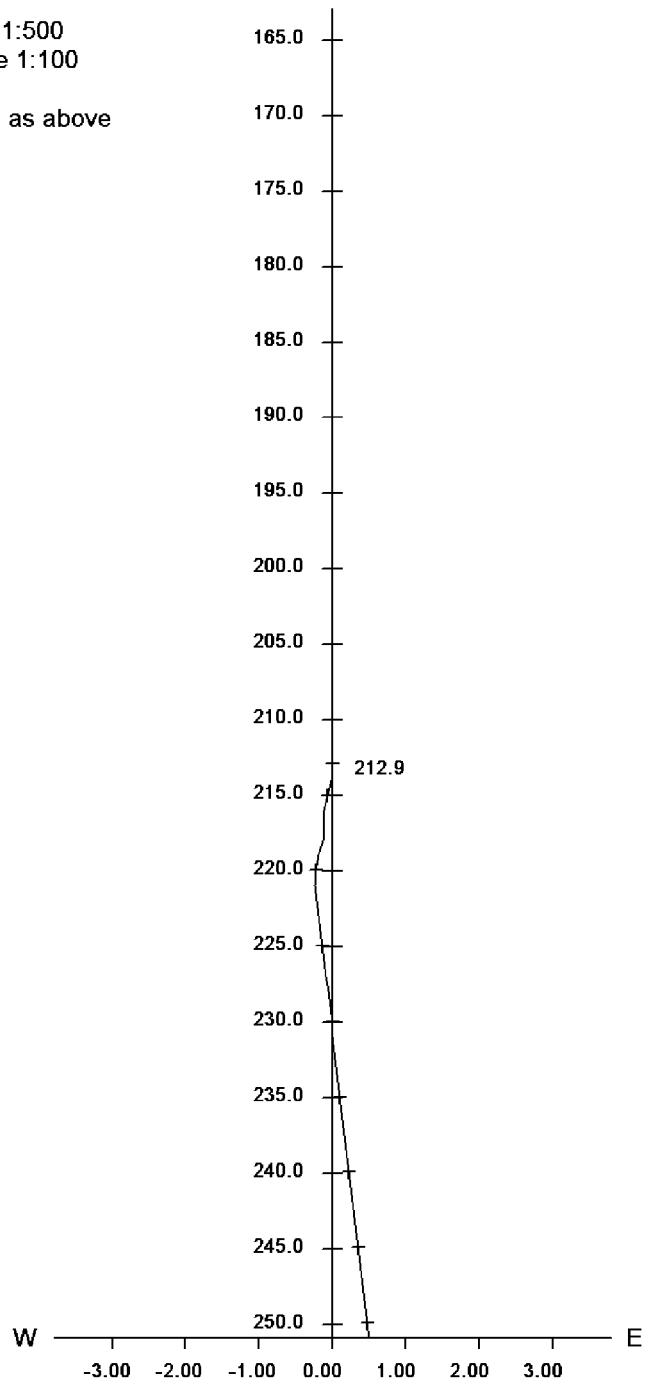
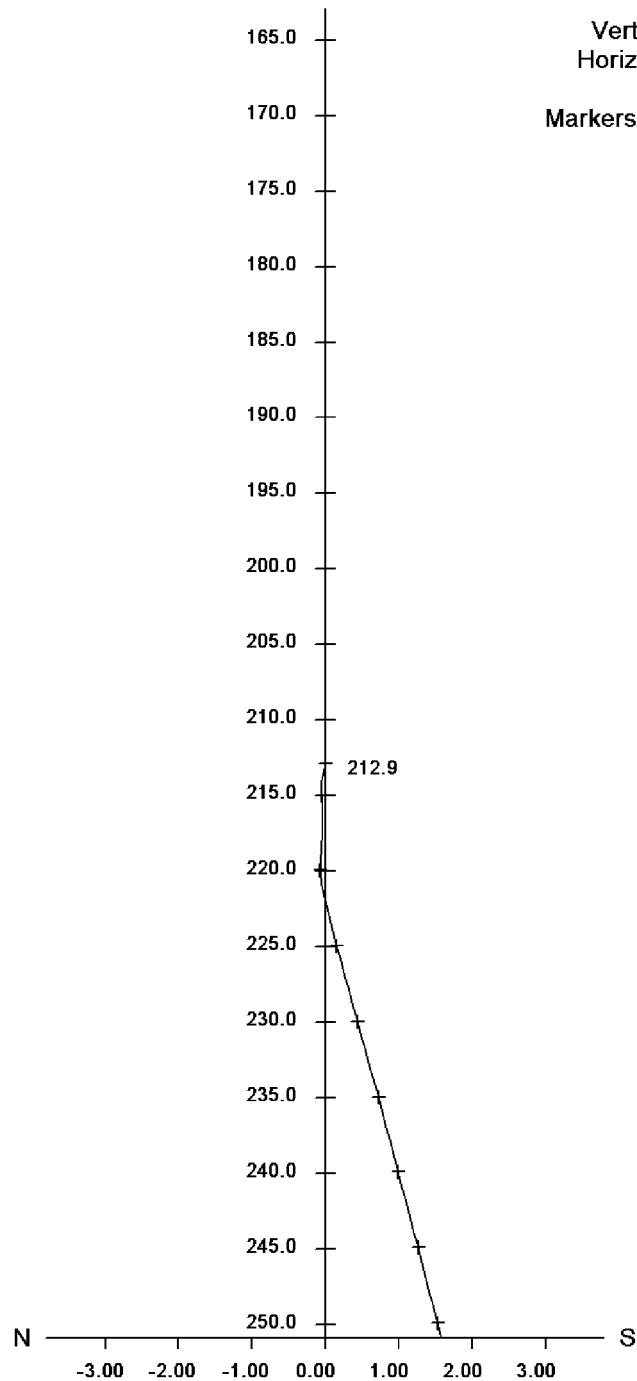
Date Logged: 18 MAR 2006

DEPTHS		BOREHOLE		AXIAL CO-ORDS		POLAR		POLAR ERROR CO-ORDINATES (MAXIMUM & TYPICAL)							
Log	True	Tilt	Azi	North	East	Brg	Radius	Brg	Radius	Brg	Radius	Brg	Radius	Brg	Radius
213.00	213.00	3.6	30.0	0.01	0.01	40	0.01	40	0.01	40	0.01	40	0.01	40	0.01
214.00	214.00	3.5	300.3	0.05	-0.02	340	0.06	340	0.06	340	0.05	340	0.06	340	0.06
215.00	215.00	3.4	310.9	0.06	-0.07	310	0.09	310	0.10	311	0.09	310	0.10	311	0.09
216.00	215.99	3.4	220.6	0.05	-0.12	291	0.13	291	0.14	291	0.12	291	0.13	291	0.12
217.00	216.99	3.4	276.1	0.04	-0.12	290	0.13	290	0.14	290	0.12	290	0.14	290	0.13
218.00	217.99	3.4	273.2	0.06	-0.13	294	0.14	294	0.15	295	0.14	294	0.15	294	0.14
219.00	218.99	3.4	236.2	0.06	-0.19	288	0.20	288	0.21	288	0.19	288	0.21	288	0.19
220.00	219.99	3.4	346.5	0.08	-0.23	290	0.25	290	0.26	290	0.23	290	0.26	290	0.24
221.00	220.99	3.4	150.7	0.06	-0.24	284	0.25	283	0.26	284	0.24	283	0.26	284	0.24
222.00	221.98	3.4	156.4	0.00	-0.22	271	0.22	271	0.23	271	0.21	271	0.23	271	0.21
223.00	222.98	3.4	155.4	-0.05	-0.19	255	0.20	255	0.21	255	0.19	255	0.21	255	0.20
224.00	223.98	3.5	155.0	-0.11	-0.17	238	0.20	238	0.21	238	0.19	238	0.20	238	0.19
225.00	224.98	3.6	154.9	-0.16	-0.14	221	0.22	221	0.23	221	0.20	221	0.22	221	0.21
226.00	225.98	3.6	154.6	-0.22	-0.12	208	0.25	208	0.26	208	0.23	208	0.25	208	0.24
227.00	226.97	3.6	153.9	-0.27	-0.09	198	0.29	198	0.31	198	0.27	198	0.30	198	0.28
228.00	227.97	3.5	155.1	-0.33	-0.06	191	0.34	191	0.36	191	0.32	191	0.35	191	0.33
229.00	228.97	3.5	156.0	-0.39	-0.04	185	0.39	185	0.41	185	0.37	185	0.40	185	0.38
230.00	229.97	3.5	156.3	-0.44	-0.01	182	0.44	182	0.47	182	0.42	182	0.46	182	0.43
231.00	230.97	3.5	156.0	-0.50	0.01	179	0.50	179	0.53	179	0.47	179	0.51	179	0.49
232.00	231.96	3.5	155.6	-0.56	0.04	176	0.56	176	0.59	176	0.53	176	0.57	176	0.54
233.00	232.96	3.5	156.2	-0.61	0.06	174	0.61	174	0.65	174	0.58	174	0.63	174	0.60
234.00	233.96	3.5	156.0	-0.67	0.09	173	0.68	173	0.71	173	0.64	173	0.70	173	0.66
235.00	234.96	3.4	154.9	-0.73	0.11	171	0.73	171	0.78	171	0.69	171	0.76	171	0.71
236.00	235.96	3.3	153.6	-0.79	0.14	170	0.80	170	0.84	170	0.75	170	0.82	170	0.78
237.00	236.95	3.2	154.3	-0.84	0.16	169	0.85	169	0.90	169	0.80	169	0.88	169	0.83
238.00	237.95	3.2	154.1	-0.89	0.19	168	0.91	168	0.96	168	0.86	168	0.94	168	0.88
239.00	238.95	3.2	153.1	-0.94	0.21	167	0.96	167	1.02	167	0.91	167	0.99	167	0.94
240.00	239.95	3.3	152.5	-1.00	0.24	167	1.02	167	1.08	167	0.97	167	1.05	167	0.99
241.00	240.95	3.3	154.2	-1.05	0.26	166	1.08	166	1.14	166	1.02	166	1.11	166	1.05
242.00	241.94	3.3	154.1	-1.10	0.29	165	1.14	165	1.20	165	1.07	165	1.17	165	1.11
243.00	242.94	3.3	155.0	-1.16	0.31	165	1.20	165	1.27	165	1.13	165	1.23	165	1.16
244.00	243.94	3.3	156.6	-1.21	0.34	164	1.26	164	1.33	165	1.18	164	1.29	165	1.22
245.00	244.94	3.3	157.6	-1.26	0.36	164	1.31	164	1.39	164	1.24	164	1.35	164	1.28
246.00	245.94	3.3	153.7	-1.32	0.38	164	1.37	164	1.45	164	1.29	164	1.41	164	1.33
247.00	246.94	3.3	152.9	-1.37	0.41	163	1.43	163	1.51	164	1.35	163	1.47	163	1.39
248.00	247.93	3.5	153.5	-1.43	0.43	163	1.49	163	1.58	163	1.40	163	1.53	163	1.45

249.00	248.93	3.3	152.8	-1.48	0.46	163	1.55	163	1.64	163	1.46	163	1.59	163	1.51
250.00	249.93	3.3	151.6	-1.53	0.49	162	1.61	162	1.70	162	1.51	162	1.65	162	1.56
251.00	250.93	3.3	154.5	-1.59	0.51	162	1.67	162	1.76	162	1.57	162	1.72	162	1.62



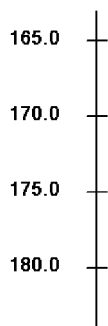
(True Depth vs Displacement)



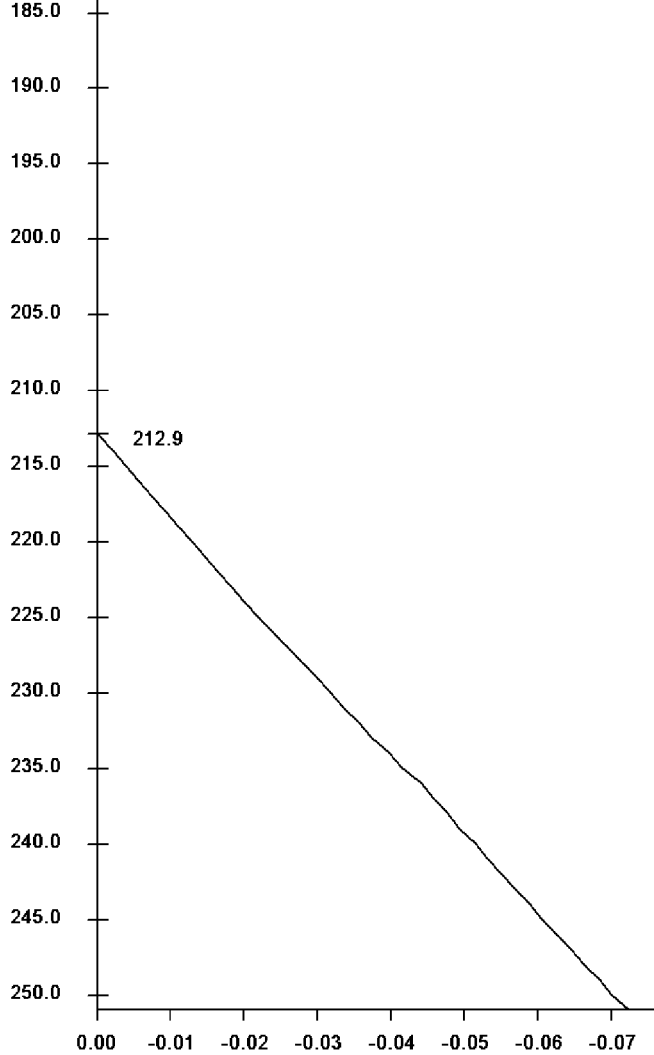
Depth Correction Analysis

Vertical Scale 1:500
Horizontal Scale 1:1

Log
Depth



Depths	Log	True
213.00	213.00	
214.00	214.00	
215.00	215.00	
216.00	215.99	
217.00	216.99	
218.00	217.99	
219.00	218.99	
220.00	219.99	
221.00	220.99	
222.00	221.98	
223.00	222.98	
224.00	223.98	
225.00	224.98	
226.00	225.98	
227.00	226.97	
228.00	227.97	
229.00	228.97	
230.00	229.97	
231.00	230.97	
232.00	231.96	



233.00	232.96
234.00	233.96
235.00	234.96
236.00	235.96
237.00	236.95
238.00	237.95
239.00	238.95
240.00	239.95
241.00	240.95
242.00	241.94
243.00	242.94
244.00	243.94
245.00	244.94
246.00	245.94
247.00	246.94
248.00	247.93
249.00	248.93
250.00	249.93
251.00	250.93

Correction For True Depth

COMPANY LAKES OIL NL
WELL LOY YANG 2
FIELD EXPLORATION
PROVINCE/COUNTY QUEENSLAND
COUNTRY/STATE AUSTRALIA

Elevation Kelly Bushing	107.65	metres	First Reading	1440.90	metres
Elevation Drill Floor		metres	Depth Driller	1443.00	metres
Elevation Ground Level	104.00	metres	Depth Logger	1442.08	metres



BORHOLE DIRECTION
BGN
1:200

COMPANY	WELL	FIELD	PROVINCE/COUNTRY/LOCATION	LSD	SE	API Number	Permit Number	Permanent Log	Log Measuring	Drilling Measuring	Date	Run Number	Depth Driller	Depth Logger	First Reading	Last Reading	Casing Driller	Casing Logger	Bit Size	Hole Fluid Temperature	Density / Viscosity	PH / Fluid Level	Sample Source	Rm @ Measuring	Rm @ Measuring	Rmc @ Measuring	Source Rm	Rm @ BHT	Time Since	Max Record	Equipment / Equipment	Recorded By	Witnessed By	Circ. Stop
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LAKES OIL NL
LOY YANG 2
EXPLORATION
QUEENSLAND
AUSTRALIA
38° 15' 13" S, 146° 33' 31" E

C	TWP	RGE	Other Services	ACOUSTIC SCANNER
			DUAL LATEROLOG MICRO LATEROLOG COMPENSATED SONIC	
Datum M.S.L. , Elevation metres Reduced From R.T. @ 107.65 above Permanent Datum Reduced From R.T.				
				Elevations: KB 107.65 metres DF metres GL 104.00 metres
		17-MAR-2006		
		TWO		
		1443.00	metres	
		1442.08	metres	
		1440.90	metres	
		0.00	metres	
		215.00	metres	
		216.00	metres	
		6.13	inches	
		KCL POLYMER		
		1.04 g/cc		
		FLOWLINE		
		0.762 @ 25.0	ohm-m	
		0.711 @ 25.0	ohm-m	
		0.813 @ 25.0	ohm-m	
		PIT	PRESS	
		0.363 @ 75.0	ohm-m	
		7HRS		
		75.00	deg C	
		OILFIELD		
		8	SALE	
		TIM HANSEN		
		TIM O'BRIEN, BEN EDWARDS		
		17:18/16-MAR		Last Line

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25-APR-2006 13:44

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Borehole positional error is derived assuming the following parameters.

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Typical Error	+/- 0.1000	+/- 5.0000
Maximum Error	+/- 0.2000	+/- 8.0000

Error analysis may be calculated and plotted from the data listing as follows:

a) Plot the four coordinates from the error listing (based upon zero azimuth error) on a target plot. Origin at the start of the analysis.

b) Describe arcs of +/- 10.00 degrees and +/- 15.00 degrees (centre at the origin) through the inner and outer points respectively.

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N.B. The reference point for all bearing angles on this listing is given at the top of each sheet.

Verticality Data Listing

C:\Data\Scanner\CDR\Depth\19.dta

All Co-ordinates With Respect To True North, all depths in metres

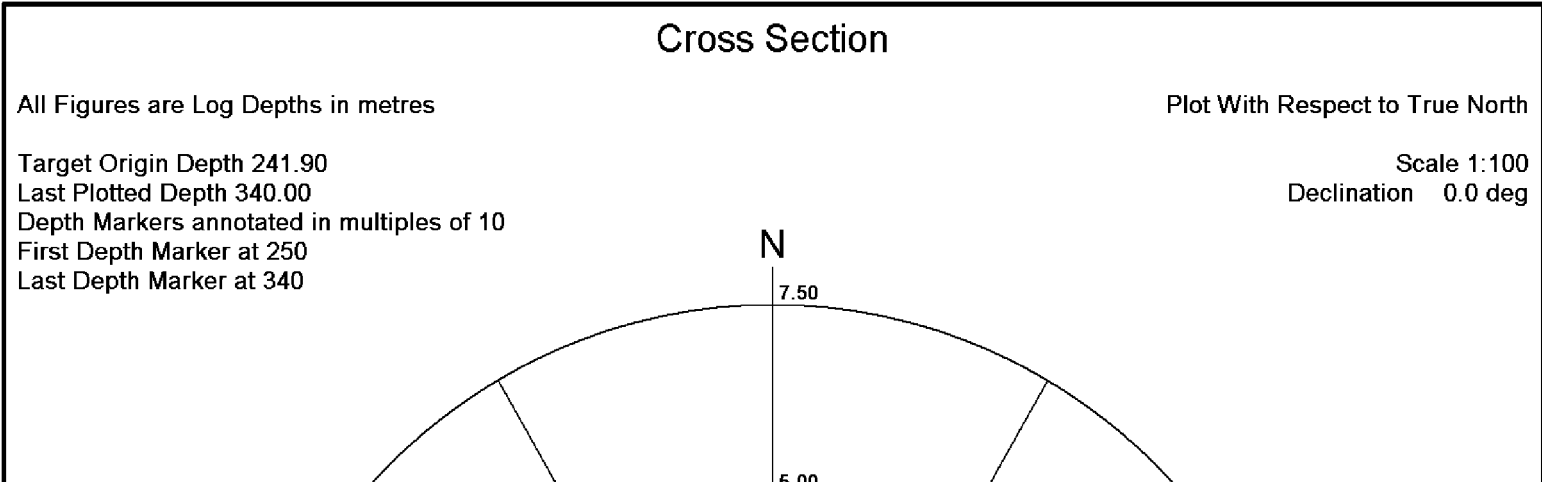
Date Processed: 25-APR-2006

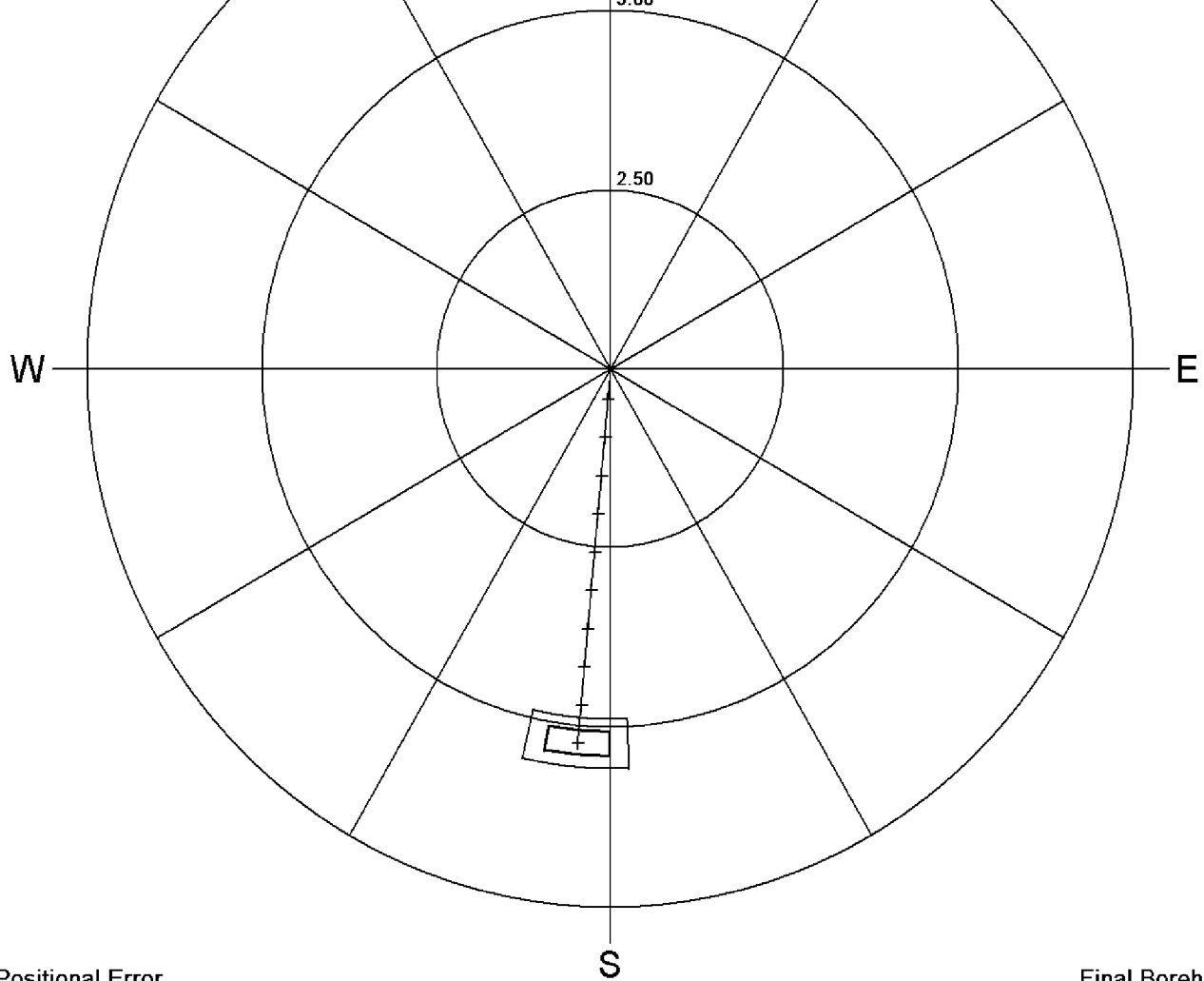
First Depth 241.90, 0.00 North, 0.00 East of Origin

Date Logged: 18 MAR 2006

DEPTHS		BOREHOLE		AXIAL CO-ORDS		POLAR		POLAR ERROR CO-ORDINATES (MAXIMUM & TYPICAL)							
Log	True	Tilt	Azi	North	East	Brg	Radius	Brg	Radius	Brg	Radius	Brg	Radius	Brg	Radius
242.00	242.00	3.1	185.2	-0.01	-0.00	185	0.01	185	0.01	185	0.00	185	0.01	185	0.01
243.00	243.00	3.1	185.2	-0.06	-0.01	185	0.06	185	0.06	185	0.05	185	0.06	185	0.06
244.00	244.00	3.1	185.2	-0.11	-0.01	185	0.11	185	0.12	185	0.10	185	0.12	185	0.11
245.00	245.00	3.1	185.2	-0.16	-0.01	185	0.17	185	0.18	185	0.15	185	0.17	185	0.16
246.00	245.99	3.1	185.2	-0.22	-0.02	185	0.22	185	0.23	185	0.20	185	0.23	185	0.21
247.00	246.99	3.1	185.2	-0.27	-0.02	185	0.27	185	0.29	185	0.25	185	0.28	185	0.26
248.00	247.99	3.1	185.2	-0.32	-0.03	185	0.33	185	0.35	185	0.30	185	0.34	185	0.31
249.00	248.99	3.1	185.2	-0.38	-0.03	185	0.38	185	0.40	185	0.35	185	0.39	185	0.37
250.00	249.99	3.1	185.2	-0.43	-0.04	185	0.43	185	0.46	185	0.40	185	0.45	185	0.42
251.00	250.99	3.1	185.2	-0.48	-0.04	185	0.49	185	0.52	185	0.45	185	0.50	185	0.47
252.00	251.99	3.1	185.2	-0.54	-0.05	185	0.54	185	0.57	185	0.50	185	0.56	185	0.52
253.00	252.98	3.1	185.2	-0.59	-0.05	185	0.59	185	0.63	185	0.55	185	0.61	185	0.57
254.00	253.98	3.1	185.2	-0.64	-0.06	185	0.65	185	0.69	185	0.60	185	0.67	185	0.62
255.00	254.98	3.1	185.2	-0.70	-0.06	185	0.70	185	0.74	185	0.65	185	0.72	185	0.68
256.00	255.98	3.1	185.2	-0.75	-0.07	185	0.75	185	0.80	185	0.70	185	0.78	185	0.73
257.00	256.98	3.1	185.2	-0.80	-0.07	185	0.81	185	0.86	185	0.75	185	0.83	185	0.78
258.00	257.98	3.1	185.2	-0.86	-0.08	185	0.86	185	0.92	185	0.80	185	0.89	185	0.83
259.00	258.98	3.1	185.2	-0.91	-0.08	185	0.91	185	0.97	185	0.85	185	0.94	185	0.88
260.00	259.97	3.1	185.2	-0.96	-0.09	185	0.97	185	1.03	185	0.90	185	1.00	185	0.93
261.00	260.97	3.1	185.2	-1.01	-0.09	185	1.02	185	1.09	185	0.95	185	1.05	185	0.99
262.00	261.97	3.1	185.2	-1.07	-0.10	185	1.07	185	1.14	185	1.00	185	1.11	185	1.04
263.00	262.97	3.1	185.2	-1.12	-0.10	185	1.13	185	1.20	185	1.05	185	1.16	185	1.09
264.00	263.97	3.1	185.2	-1.17	-0.11	185	1.18	185	1.26	185	1.10	185	1.22	185	1.14
265.00	264.97	3.1	185.2	-1.23	-0.11	185	1.23	185	1.31	185	1.15	185	1.27	185	1.19
266.00	265.97	3.1	185.2	-1.28	-0.12	185	1.29	185	1.37	185	1.20	185	1.33	185	1.24
267.00	266.96	3.1	185.2	-1.33	-0.12	185	1.34	185	1.43	185	1.25	185	1.38	185	1.30
268.00	267.96	3.1	185.2	-1.39	-0.13	185	1.39	185	1.48	185	1.30	185	1.44	185	1.35
269.00	268.96	3.1	185.2	-1.44	-0.13	185	1.45	185	1.54	185	1.35	185	1.49	185	1.40
270.00	269.96	3.1	185.2	-1.49	-0.14	185	1.50	185	1.60	185	1.40	185	1.55	185	1.45
271.00	270.96	3.1	185.2	-1.55	-0.14	185	1.55	185	1.65	185	1.45	185	1.60	185	1.50
272.00	271.96	3.1	185.2	-1.60	-0.15	185	1.61	185	1.71	185	1.50	185	1.66	185	1.55
273.00	272.96	3.1	185.2	-1.65	-0.15	185	1.66	185	1.77	185	1.55	185	1.71	185	1.60
274.00	273.95	3.1	185.2	-1.71	-0.15	185	1.71	185	1.82	185	1.60	185	1.77	185	1.66
275.00	274.95	3.1	185.2	-1.76	-0.16	185	1.77	185	1.88	185	1.65	185	1.82	185	1.71
276.00	275.95	3.1	185.2	-1.81	-0.16	185	1.82	185	1.94	185	1.70	185	1.88	185	1.76
277.00	276.95	3.1	185.2	-1.86	-0.17	185	1.87	185	1.99	185	1.75	185	1.93	185	1.81
278.00	277.95	3.1	185.2	-1.92	-0.17	185	1.93	185	2.05	185	1.80	185	1.99	185	1.86
279.00	278.95	3.1	185.2	-1.97	-0.18	185	1.98	185	2.11	185	1.85	185	2.04	185	1.91
280.00	279.95	3.1	185.2	-2.02	-0.18	185	2.03	185	2.17	185	1.90	185	2.10	185	1.97
281.00	280.94	3.1	185.2	-2.08	-0.19	185	2.09	185	2.22	185	1.95	185	2.15	185	2.02
282.00	281.94	3.1	185.2	-2.13	-0.19	185	2.14	185	2.28	185	2.00	185	2.21	185	2.07
283.00	282.94	3.1	185.2	-2.18	-0.20	185	2.19	185	2.34	185	2.05	185	2.26	185	2.12

284.00	283.94	3.1	185.2	-2.24	-0.20	185	2.25	185	2.39	185	2.10	185	2.32	185	2.17
285.00	284.94	3.1	185.2	-2.29	-0.21	185	2.30	185	2.45	185	2.15	185	2.37	185	2.22
286.00	285.94	3.1	185.2	-2.34	-0.21	185	2.35	185	2.51	185	2.20	185	2.43	185	2.28
287.00	286.94	3.1	185.2	-2.40	-0.22	185	2.41	185	2.56	185	2.25	185	2.48	185	2.33
288.00	287.93	3.1	185.2	-2.45	-0.22	185	2.46	185	2.62	185	2.30	185	2.54	185	2.38
289.00	288.93	3.1	185.2	-2.50	-0.23	185	2.51	185	2.68	185	2.35	185	2.59	185	2.43
290.00	289.93	3.1	185.2	-2.56	-0.23	185	2.57	185	2.73	185	2.40	185	2.65	185	2.48
291.00	290.93	3.1	185.2	-2.61	-0.24	185	2.62	185	2.79	185	2.45	185	2.70	185	2.53
292.00	291.93	3.1	185.2	-2.66	-0.24	185	2.67	185	2.85	185	2.50	185	2.76	185	2.59
293.00	292.93	3.1	185.2	-2.71	-0.25	185	2.73	185	2.90	185	2.55	185	2.82	185	2.64
294.00	293.93	3.1	185.2	-2.77	-0.25	185	2.78	185	2.96	185	2.60	185	2.87	185	2.69
295.00	294.92	3.1	185.2	-2.82	-0.26	185	2.83	185	3.02	185	2.65	185	2.93	185	2.74
296.00	295.92	3.1	185.2	-2.87	-0.26	185	2.89	185	3.07	185	2.70	185	2.98	185	2.79
297.00	296.92	3.1	185.2	-2.93	-0.27	185	2.94	185	3.13	185	2.75	185	3.04	185	2.84
298.00	297.92	3.1	185.2	-2.98	-0.27	185	2.99	185	3.19	185	2.80	185	3.09	185	2.90
299.00	298.92	3.1	185.2	-3.03	-0.28	185	3.05	185	3.25	185	2.85	185	3.15	185	2.95
300.00	299.92	3.1	185.2	-3.09	-0.28	185	3.10	185	3.30	185	2.90	185	3.20	185	3.00
301.00	300.92	3.1	185.2	-3.14	-0.29	185	3.15	185	3.36	185	2.95	185	3.26	185	3.05
302.00	301.91	3.1	185.2	-3.19	-0.29	185	3.21	185	3.42	185	3.00	185	3.31	185	3.10
303.00	302.91	3.1	185.2	-3.25	-0.29	185	3.26	185	3.47	185	3.05	185	3.37	185	3.15
304.00	303.91	3.1	185.2	-3.30	-0.30	185	3.31	185	3.53	185	3.10	185	3.42	185	3.20
305.00	304.91	3.1	185.2	-3.35	-0.30	185	3.37	185	3.59	185	3.15	185	3.48	185	3.26
306.00	305.91	3.1	185.2	-3.41	-0.31	185	3.42	185	3.64	185	3.20	185	3.53	185	3.31
307.00	306.91	3.1	185.2	-3.46	-0.31	185	3.47	185	3.70	185	3.25	185	3.59	185	3.36
308.00	307.91	3.1	185.2	-3.51	-0.32	185	3.53	185	3.76	185	3.30	185	3.64	185	3.41
309.00	308.90	3.1	185.2	-3.57	-0.32	185	3.58	185	3.81	185	3.35	185	3.70	185	3.46
310.00	309.90	3.1	185.2	-3.62	-0.33	185	3.63	185	3.87	185	3.40	185	3.75	185	3.51
311.00	310.90	3.1	185.2	-3.67	-0.33	185	3.69	185	3.93	185	3.45	185	3.81	185	3.57
312.00	311.90	3.1	185.2	-3.72	-0.34	185	3.74	185	3.98	185	3.50	185	3.86	185	3.62
313.00	312.90	3.1	185.2	-3.78	-0.34	185	3.79	185	4.04	185	3.55	185	3.92	185	3.67
314.00	313.90	3.1	185.2	-3.83	-0.35	185	3.85	185	4.10	185	3.60	185	3.97	185	3.72
315.00	314.90	3.1	185.2	-3.88	-0.35	185	3.90	185	4.15	185	3.64	185	4.03	185	3.77
316.00	315.89	3.1	185.2	-3.94	-0.36	185	3.95	185	4.21	185	3.69	185	4.08	185	3.82
317.00	316.89	3.1	185.2	-3.99	-0.36	185	4.01	185	4.27	185	3.74	185	4.14	185	3.88
318.00	317.89	3.1	185.2	-4.04	-0.37	185	4.06	185	4.33	185	3.79	185	4.19	185	3.93
319.00	318.89	3.1	185.2	-4.10	-0.37	185	4.11	185	4.38	185	3.84	185	4.25	185	3.98
320.00	319.89	3.1	185.2	-4.15	-0.38	185	4.17	185	4.44	185	3.89	185	4.30	185	4.03
321.00	320.89	3.1	185.2	-4.20	-0.38	185	4.22	185	4.50	185	3.94	185	4.36	185	4.08
322.00	321.89	3.1	185.2	-4.26	-0.39	185	4.27	185	4.55	185	3.99	185	4.41	185	4.13
323.00	322.88	3.1	185.2	-4.31	-0.39	185	4.33	185	4.61	185	4.04	185	4.47	185	4.19
324.00	323.88	3.1	185.2	-4.36	-0.40	185	4.38	185	4.67	185	4.09	185	4.52	185	4.24
325.00	324.88	3.1	185.2	-4.42	-0.40	185	4.43	185	4.72	185	4.14	185	4.58	185	4.29
326.00	325.88	3.1	185.2	-4.47	-0.41	185	4.49	185	4.78	185	4.19	185	4.63	185	4.34
327.00	326.88	3.1	185.2	-4.52	-0.41	185	4.54	185	4.84	185	4.24	185	4.69	185	4.39
328.00	327.88	3.1	185.2	-4.57	-0.42	185	4.59	185	4.89	185	4.29	185	4.74	185	4.44
329.00	328.88	3.1	185.2	-4.63	-0.42	185	4.65	185	4.95	185	4.34	185	4.80	185	4.49
330.00	329.87	3.1	185.2	-4.68	-0.43	185	4.70	185	5.01	185	4.39	185	4.85	185	4.55
331.00	330.87	3.1	185.2	-4.73	-0.43	185	4.75	185	5.06	185	4.44	185	4.91	185	4.60
332.00	331.87	3.1	185.2	-4.79	-0.43	185	4.81	185	5.12	185	4.49	185	4.96	185	4.65
333.00	332.87	3.1	185.2	-4.84	-0.44	185	4.86	185	5.18	185	4.54	185	5.02	185	4.70
334.00	333.87	3.1	185.2	-4.89	-0.44	185	4.91	185	5.23	185	4.59	185	5.07	185	4.75
335.00	334.87	3.1	185.2	-4.95	-0.45	185	4.97	185	5.29	185	4.64	185	5.13	185	4.80
336.00	335.87	3.1	185.2	-5.00	-0.45	185	5.02	185	5.35	185	4.69	185	5.18	185	4.86
337.00	336.86	3.1	185.2	-5.05	-0.46	185	5.07	185	5.40	185	4.74	185	5.24	185	4.91
338.00	337.86	3.1	185.2	-5.11	-0.46	185	5.13	185	5.46	185	4.79	185	5.29	185	4.96
339.00	338.86	3.1	185.2	-5.16	-0.47	185	5.18	185	5.52	185	4.84	185	5.35	185	5.01
340.00	339.86	3.1	185.2	-5.21	-0.47	185	5.23	185	5.58	185	4.89	185	5.40	185	5.06





Borehole Positional Error

The two boxes surrounding the last plotted depth show the typical and maximum positional error at that depth.

Final Borehole Position

The last plotted depth is at
5.21 metres South
0.47 metres West
ie 5.23 metres from the origin
185 deg from True North

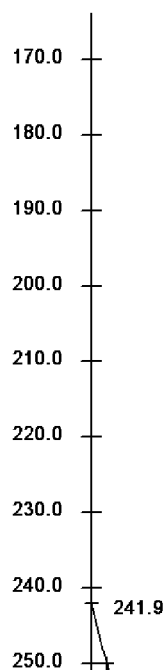
Vertical Sections

North-South Section

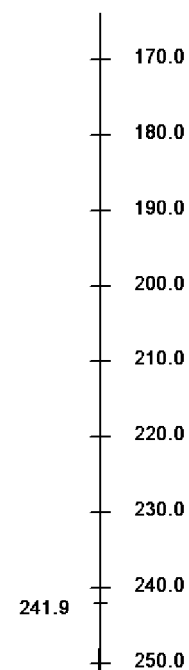
(True Depth vs Displacement)

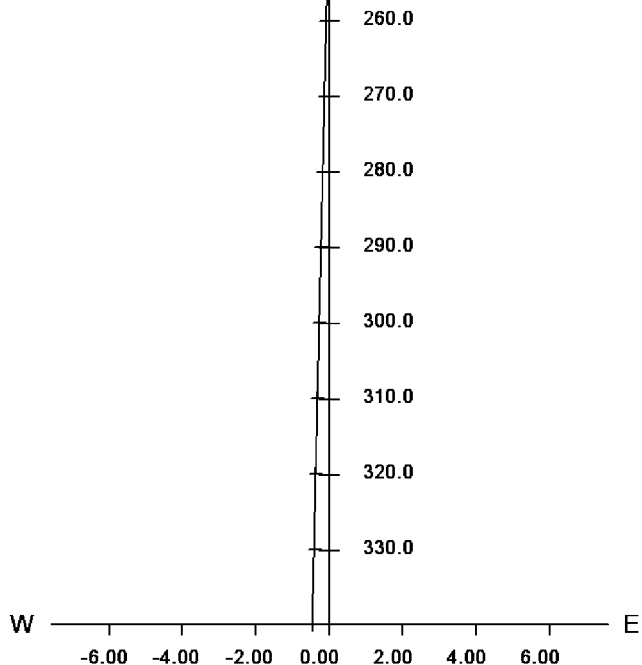
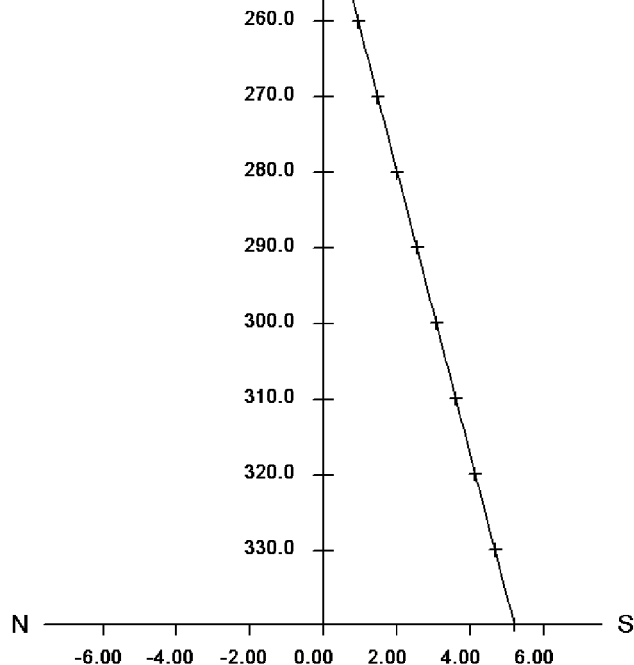
Vertical Scale 1:1000
Horizontal Scale 1:200

Markers annotated as above



East-West Section

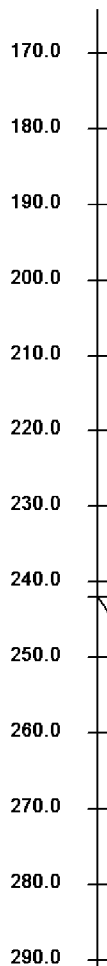




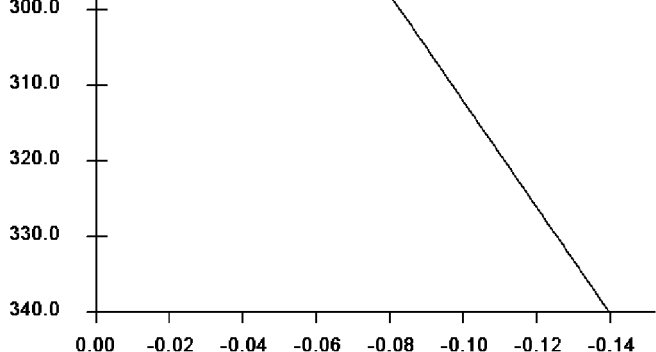
Depth Correction Analysis

Vertical Scale 1:1000
Horizontal Scale 1:2

Log
Depth



Depths Log	True	Depths Log	True
242.00	242.00	309.00	308.90
243.00	243.00	310.00	309.90
244.00	244.00	311.00	310.90
245.00	245.00	312.00	311.90
246.00	245.99	313.00	312.90
247.00	246.99	314.00	313.90
248.00	247.99	315.00	314.90
249.00	248.99	316.00	315.89
250.00	249.99	317.00	316.89
251.00	250.99	318.00	317.89
252.00	251.99	319.00	318.89
253.00	252.98	320.00	319.89
254.00	253.98	321.00	320.89
255.00	254.98	322.00	321.89
256.00	255.98	323.00	322.88
257.00	256.98	324.00	323.88
258.00	257.98	325.00	324.88
259.00	258.98	326.00	325.88
260.00	259.97	327.00	326.88
261.00	260.97	328.00	327.88
262.00	261.97	329.00	328.88
263.00	262.97	330.00	329.87
264.00	263.97	331.00	330.87
265.00	264.97	332.00	331.87
266.00	265.97	333.00	332.87
267.00	266.96	334.00	333.87
268.00	267.96	335.00	334.87
269.00	268.96	336.00	335.87
270.00	269.96	337.00	336.86
271.00	270.96	338.00	337.86
272.00	271.96	339.00	338.86
273.00	272.96	340.00	339.86
274.00	273.95		
275.00	274.95		
276.00	275.95		
277.00	276.95		
278.00	277.95		
279.00	278.95		
280.00	279.95		
281.00	280.94		
282.00	281.94		
283.00	282.94		
284.00	283.94		
285.00	284.94		
286.00	285.94		
287.00	286.94		
288.00	287.93		
289.00	288.93		



Correction For True Depth

289.00	288.93
290.00	289.93
291.00	290.93
292.00	291.93
293.00	292.93
294.00	293.93
295.00	294.92
296.00	295.92
297.00	296.92
298.00	297.92
299.00	298.92
300.00	299.92
301.00	300.92
302.00	301.91
303.00	302.91
304.00	303.91
305.00	304.91
306.00	305.91
307.00	306.91
308.00	307.91

COMPANY LAKES OIL NL
WELL LOY YANG 2
FIELD EXPLORATION
PROVINCE/COUNTY QUEENSLAND
COUNTRY/STATE AUSTRALIA

Elevation Kelly Bushing	107.65	metres	First Reading	1440.90	metres
Elevation Drill Floor		metres	Depth Driller	1443.00	metres
Elevation Ground Level	104.00	metres	Depth Logger	1442.08	metres



BORHOLE DIRECTION

BGN

1:200



BORHOLE D

BG

1:2

COMPANY LAKES OIL NL
WELL LOY YANG 2
FIELD EXPLORATION
PROVINCE/COUNTY QUEENSLAND
COUNTRY/STATE AUSTRALIA
LOCATION 38° 15' 13" S, 146° 33' 31" E

LSL	SEC	TWP	RGE	Other Services	ACC
API Number				DUAL LATEROLOG	
Permit Number	PEP 166			MICRO LATEROLOG	
Permanent Datum	M.S.L.			COMPENSATED SONIC	
Log Measured From	R.T. @ 107.65			above Permanent Datum	
Drilling Measured From	R.T.				
Date	17-MAR-2006				
Run Number	TWO				
Depth Driller	1443.00			metres	
Depth Logger	1442.08			metres	
First Reading	1440.90			metres	
Last Reading	0.00			metres	
Casing Driller	215.00			metres	
Casing Logger	216.00			metres	
Bit Size	6.13			inches	
Hole Fluid Type	KCL POLYMER				
Density / Viscosity	1.04 g/cc				
PH / Fluid Loss					
Sample Source	FLOWLINE				
Rm @ Measured Temp	0.762 @ 25.0			ohm-m	
Rmf @ Measured Temp	0.711 @ 25.0			ohm-m	
Rmc @ Measured Temp	0.813 @ 25.0			ohm-m	
Source Rmf / Rmc	PIT			PRESS	
Rm @ BHT	0.363 @ 75.0			ohm-m	
Time Since Circulation	7HRS				
Max Recorded Temp	75.00			deg C	
Equipment Name	OILFIELD				
Equipment / Base	8			SALE	
Recorded By	TIM HANSEN				
Witnessed By	TIM O'BRIEN, BEN EDWARDS				
Circ. Stop	17:18/16-MAR				
					Last Line

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

Verticality Analysis Interpretation Notes

25-APR-2006 13:45

All plotted output is automatically scaled to obtain the best visual effect within the physical space available. The maximum scales being 1:50000(metric) and 1:48000(imperial), and the minimum 1:1.

The analysis is derived by integrating 10cm sampled data down the borehole. The listing supplied will contain a maximum of 200 points in multiples of 1, 2, 5, 10, 20, 50 or 100 metres/feet depending on the total range of the analysis. However, the analysis is calculated for the entire range of the borehole and the final borehole position is included in the listing.

Computed verticality may only be fully derived in open sections of the borehole, away from the influence of any unusual magnetic effects, (as the azimuth calculations are derived from three solid state magnetometers). So the analysis will generally begin at the end of the casing and all borehole positional information will relate to this depth.

Up to ten cross sections may be requested for any borehole to be displayed at any scale, (the default scale is that of the cross-section for the entire hole).

Borehole positional error is derived assuming the following parameters.

	TILT (degrees)	AZIMUTH (degrees)
Typical Error	+/- 0.1000	+/- 5.0000
Maximum Error	+/- 0.2000	+/- 8.0000

Error analysis may be calculated and plotted from the data listing as follows:

- Plot the four coordinates from the error listing (based upon zero azimuth error) on a target plot. Origin at the start of the analysis.
- Describe arcs of +/- 10.00 degrees and +/- 15.00 degrees (centre at the origin) through the inner and outer points respectively.
- Connect the respective arcs together with straight lines to give the typical and maximum borehole positional error.

Given below is a full description of the parameters displayed on the ensuing listing:

LOG DEPTH	The depth recorded on the field logs for the borehole.
TRUE DEPTH	The true vertical depth corresponding to the above depth. Corrected from the start of the analysis.
HOLE TILT AND AZIMUTH	The sampled borehole orientation.
AXIAL COORDINATES	The coordinates North and East from the target origin.
POLAR COORDINATES	The polar or radial coordinates of the borehole.
ERROR COORDINATES	The polar coordinates corresponding to the typical and maximum tilt error.

N.B. The reference point for all bearing angles on this listing is given at the top of each sheet.

Verticality Data Listing

C:\Data\Scanner\CDR\Depth\18.dta

All Co-ordinates With Respect To True North, all depths in metres

Date Processed: 25-APR-2006

First Depth 324.47, 0.00 North, 0.00 East of Origin

Date Logged: 18 MAR 2006

DEPTHS		BOREHOLE		AXIAL CO-ORDS		POLAR		POLAR ERROR CO-ORDINATES (MAXIMUM & TYPICAL)							
Log	True	Tilt	Azi	North	East	Brg	Radius	Brg	Radius	Brg	Radius	Brg	Radius	Brg	Radius
326.00	326.00	3.5	188.0	-0.09	-0.01	185	0.09	185	0.09	184	0.08	185	0.09	185	0.08
328.00	327.99	2.9	185.3	-0.20	-0.02	185	0.20	185	0.21	185	0.18	185	0.20	185	0.19
330.00	329.99	3.0	186.7	-0.31	-0.02	184	0.31	184	0.33	184	0.29	184	0.32	184	0.30
332.00	331.99	2.7	189.2	-0.41	-0.03	184	0.41	184	0.43	184	0.38	184	0.42	184	0.39
334.00	333.99	2.5	186.8	-0.50	-0.04	184	0.50	184	0.53	184	0.47	184	0.52	184	0.48
336.00	335.98	2.3	186.3	-0.59	-0.04	184	0.59	184	0.63	184	0.55	184	0.61	184	0.57
338.00	337.98	2.3	185.8	-0.66	-0.05	184	0.67	184	0.71	184	0.62	184	0.69	184	0.64
340.00	339.98	2.1	180.9	-0.74	-0.05	184	0.74	184	0.80	184	0.69	184	0.77	184	0.72
342.00	341.98	2.1	182.0	-0.82	-0.06	184	0.82	184	0.88	184	0.76	184	0.85	184	0.79
344.00	343.98	2.1	180.8	-0.89	-0.05	183	0.89	184	0.96	183	0.82	183	0.93	183	0.86
346.00	345.97	1.8	177.9	-0.96	-0.05	183	0.97	183	1.04	183	0.89	183	1.00	183	0.93
348.00	347.97	1.8	177.8	-1.03	-0.05	183	1.03	183	1.11	182	0.95	183	1.07	182	0.99
350.00	349.97	1.8	177.9	-1.10	-0.04	182	1.10	182	1.19	182	1.01	182	1.14	182	1.05
352.00	351.97	1.8	179.9	-1.17	-0.04	182	1.17	182	1.26	182	1.07	182	1.21	182	1.12
354.00	353.97	1.6	177.4	-1.23	-0.03	181	1.23	182	1.33	181	1.13	182	1.28	181	1.18
356.00	355.97	1.6	176.7	-1.28	-0.03	181	1.28	181	1.39	181	1.17	181	1.34	181	1.23
358.00	357.97	1.5	171.9	-1.34	-0.02	181	1.34	181	1.46	181	1.22	181	1.40	181	1.28
360.00	359.97	1.5	172.2	-1.39	-0.01	180	1.39	180	1.52	180	1.27	180	1.46	180	1.33
362.00	361.96	1.6	168.6	-1.45	0.00	180	1.45	180	1.58	180	1.32	180	1.52	180	1.39
364.00	363.96	1.6	167.8	-1.51	0.01	179	1.51	179	1.65	179	1.37	179	1.58	179	1.44
366.00	365.96	1.7	169.4	-1.57	0.03	179	1.57	179	1.71	179	1.43	179	1.64	179	1.50
368.00	367.96	1.5	169.4	-1.63	0.04	179	1.63	179	1.78	179	1.48	179	1.70	179	1.55
370.00	369.96	1.5	171.3	-1.68	0.05	178	1.68	178	1.84	178	1.53	178	1.76	178	1.61
372.00	371.96	1.4	168.0	-1.74	0.07	178	1.74	178	1.90	178	1.57	178	1.82	178	1.66
374.00	373.96	1.5	164.3	-1.79	0.08	177	1.79	177	1.97	177	1.62	177	1.88	177	1.71
376.00	375.96	1.4	161.7	-1.84	0.10	177	1.84	177	2.02	177	1.67	177	1.93	177	1.76
378.00	377.96	1.4	159.1	-1.89	0.12	176	1.89	176	2.08	176	1.71	176	1.99	176	1.80
380.00	379.95	1.4	156.6	-1.94	0.14	176	1.94	176	2.13	176	1.75	176	2.04	176	1.85
382.00	381.95	1.4	158.1	-1.99	0.17	175	1.99	175	2.19	175	1.79	175	2.09	175	1.89
384.00	383.95	1.4	161.8	-2.03	0.19	175	2.04	175	2.24	175	1.84	175	2.14	175	1.94
386.00	385.95	1.2	160.7	-2.07	0.20	174	2.08	174	2.29	174	1.87	174	2.19	174	1.98
388.00	387.95	1.0	160.3	-2.11	0.21	174	2.12	174	2.34	174	1.90	174	2.23	174	2.01
390.00	389.95	0.9	155.5	-2.14	0.23	174	2.15	174	2.37	174	1.92	174	2.26	174	2.04
392.00	391.95	0.6	142.8	-2.16	0.24	174	2.18	174	2.41	174	1.94	174	2.29	174	2.06
394.00	393.95	0.6	152.2	-2.18	0.25	173	2.19	173	2.43	174	1.96	173	2.31	173	2.08
396.00	395.95	0.5	127.0	-2.19	0.27	173	2.21	173	2.45	173	1.97	173	2.33	173	2.09
398.00	397.95	0.5	142.2	-2.21	0.28	173	2.23	173	2.48	173	1.98	173	2.35	173	2.10
400.00	399.95	0.6	144.6	-2.22	0.29	173	2.24	172	2.50	173	1.99	172	2.37	173	2.11
402.00	401.95	0.5	141.9	-2.24	0.30	172	2.26	172	2.52	173	2.00	172	2.39	173	2.13
404.00	403.95	0.6	138.8	-2.25	0.31	172	2.27	172	2.54	173	2.01	172	2.41	172	2.14
406.00	405.95	0.6	135.5	-2.27	0.33	172	2.29	171	2.56	172	2.02	172	2.43	172	2.15
408.00	407.95	0.6	138.2	-2.28	0.34	171	2.31	171	2.59	172	2.03	171	2.45	172	2.17
410.00	409.95	0.6	140.2	-2.30	0.36	171	2.33	171	2.61	172	2.04	171	2.47	172	2.18
412.00	411.95	0.7	124.3	-2.31	0.37	171	2.34	170	2.63	172	2.05	171	2.49	171	2.20
414.00	413.95	0.8	116.6	-2.32	0.40	170	2.36	170	2.65	171	2.06	170	2.51	171	2.21
416.00	415.95	0.9	108.9	-2.34	0.42	170	2.37	169	2.67	171	2.08	169	2.52	170	2.23
418.00	417.95	0.9	109.0	-2.35	0.45	169	2.39	168	2.69	170	2.09	169	2.54	170	2.24
420.00	419.95	0.9	104.0	-2.36	0.48	168	2.40	168	2.71	170	2.10	168	2.56	169	2.25
422.00	421.95	1.0	99.4	-2.36	0.52	168	2.42	167	2.73	169	2.11	167	2.57	168	2.26
424.00	423.95	1.0	98.7	-2.37	0.55	167	2.43	166	2.75	168	2.12	166	2.59	168	2.28
426.00	425.95	0.9	96.2	-2.37	0.59	166	2.45	165	2.76	167	2.13	166	2.60	167	2.29
428.00	427.95	0.9	98.9	-2.38	0.63	165	2.46	164	2.78	167	2.14	165	2.62	166	2.30
430.00	429.95	0.9	94.9	-2.38	0.67	164	2.47	163	2.80	166	2.15	164	2.64	165	2.31
432.00	431.95	0.9	85.8	-2.38	0.70	164	2.48	162	2.81	165	2.16	163	2.65	164	2.32
434.00	433.94	1.0	82.5	-2.38	0.74	163	2.49	162	2.82	164	2.16	162	2.66	163	2.33
436.00	435.94	1.1	82.5	-2.37	0.78	162	2.50	161	2.83	163	2.17	161	2.66	162	2.33
438.00	437.94	1.1	81.6	-2.37	0.82	161	2.51	160	2.84	162	2.17	160	2.67	162	2.34
440.00	439.94	1.1	80.7	-2.36	0.86	160	2.51	159	2.85	161	2.18	159	2.68	161	2.35
442.00	441.94	1.1	77.6	-2.35	0.90	159	2.52	158	2.86	161	2.18	158	2.69	160	2.35
444.00	443.94	1.1	76.5	-2.34	0.95	158	2.52	157	2.86	160	2.19	157	2.69	159	2.36
446.00	445.94	1.1	77.1	-2.33	0.99	157	2.53	156	2.87	159	2.19	156	2.70	158	2.36
448.00	447.94	1.1	78.0	-2.32	1.03	156	2.54	155	2.88	158	2.20	155	2.71	157	2.37
450.00	449.94	1.1	77.3	-2.32	1.07	155	2.55	154	2.90	157	2.20	155	2.72	156	2.38
452.00	451.94	1.1	79.9	-2.31	1.10	154	2.56	153	2.91	156	2.21	154	2.73	155	2.38
454.00	453.94	1.0	80.5	-2.30	1.14	154	2.57	152	2.92	156	2.22	153	2.74	155	2.39
456.00	455.94	1.0	77.6	-2.29	1.17	153	2.58	151	2.93	155	2.22	152	2.75	154	2.40

458.00	457.94	1.0	76.0	-2.29	1.21	152	2.59	151	2.94	154	2.23	151	2.77	153	2.41
460.00	459.94	1.0	75.3	-2.28	1.24	151	2.59	150	2.96	153	2.24	151	2.77	152	2.42
462.00	461.94	1.0	73.5	-2.27	1.28	151	2.60	149	2.97	153	2.24	150	2.78	152	2.42
464.00	463.94	1.0	75.9	-2.26	1.31	150	2.61	148	2.98	152	2.25	149	2.80	151	2.43
466.00	465.94	1.0	73.6	-2.25	1.34	149	2.62	148	2.99	151	2.26	148	2.81	150	2.44
468.00	467.94	1.0	70.6	-2.24	1.38	148	2.63	147	3.00	151	2.26	148	2.82	149	2.44
470.00	469.94	1.2	65.5	-2.23	1.41	148	2.64	146	3.01	150	2.26	147	2.82	149	2.45
472.00	471.94	1.2	64.2	-2.21	1.45	147	2.64	145	3.02	149	2.27	146	2.83	148	2.45
474.00	473.93	1.3	63.8	-2.19	1.49	146	2.65	144	3.03	148	2.27	145	2.84	147	2.46
476.00	475.93	1.3	61.6	-2.17	1.53	145	2.65	143	3.04	147	2.28	144	2.84	146	2.46
478.00	477.93	1.3	62.0	-2.15	1.57	144	2.66	142	3.04	146	2.28	143	2.85	145	2.47
480.00	479.93	1.3	60.6	-2.13	1.62	143	2.67	141	3.06	145	2.29	142	2.86	144	2.48
482.00	481.93	1.3	58.7	-2.10	1.65	142	2.68	140	3.07	144	2.29	141	2.87	143	2.48
484.00	483.93	1.4	62.1	-2.08	1.69	141	2.68	139	3.08	143	2.30	140	2.88	142	2.49
486.00	485.93	1.4	60.6	-2.05	1.75	140	2.70	138	3.09	142	2.30	139	2.89	141	2.50
488.00	487.93	1.4	55.6	-2.03	1.79	139	2.70	137	3.10	141	2.31	138	2.90	140	2.51
490.00	489.93	1.4	53.4	-2.00	1.83	138	2.71	136	3.11	140	2.31	137	2.91	139	2.51
492.00	491.93	1.4	53.0	-1.97	1.88	136	2.72	135	3.12	139	2.32	136	2.92	137	2.52
494.00	493.93	1.5	52.6	-1.94	1.92	135	2.73	134	3.14	137	2.33	134	2.93	136	2.53
496.00	495.92	1.5	50.9	-1.91	1.96	134	2.74	133	3.14	136	2.33	133	2.94	135	2.53
498.00	497.92	1.5	47.4	-1.87	2.01	133	2.74	132	3.15	135	2.34	132	2.95	134	2.54
500.00	499.92	1.5	45.0	-1.84	2.04	132	2.75	130	3.16	134	2.34	131	2.95	133	2.54
502.00	501.92	1.6	43.4	-1.80	2.08	131	2.75	129	3.16	133	2.34	130	2.96	132	2.54
504.00	503.92	1.6	43.3	-1.76	2.12	130	2.75	128	3.17	132	2.34	129	2.96	131	2.55
506.00	505.92	1.7	40.1	-1.71	2.16	128	2.76	127	3.18	130	2.34	128	2.97	129	2.55
508.00	507.92	1.7	35.3	-1.67	2.20	127	2.76	126	3.18	129	2.34	126	2.97	128	2.55
510.00	509.92	1.7	33.4	-1.62	2.23	126	2.76	125	3.18	128	2.34	125	2.97	127	2.55
512.00	511.92	1.7	31.6	-1.57	2.26	125	2.75	123	3.17	127	2.33	124	2.96	126	2.54
514.00	513.92	1.7	29.1	-1.52	2.29	124	2.75	122	3.17	125	2.33	123	2.96	124	2.54
516.00	515.92	1.7	24.2	-1.47	2.32	122	2.74	121	3.17	124	2.32	122	2.95	123	2.53
518.00	517.92	1.8	22.3	-1.41	2.34	121	2.73	120	3.16	123	2.31	120	2.94	122	2.52
520.00	519.91	1.8	22.3	-1.35	2.37	120	2.73	119	3.15	121	2.30	119	2.94	120	2.52
522.00	521.91	2.0	22.6	-1.29	2.39	118	2.72	117	3.14	120	2.30	118	2.93	119	2.51
524.00	523.91	2.1	21.0	-1.23	2.42	117	2.72	116	3.14	118	2.29	116	2.93	118	2.51
526.00	525.91	2.0	20.1	-1.16	2.45	115	2.72	114	3.14	117	2.29	115	2.93	116	2.50
528.00	527.91	2.0	16.3	-1.10	2.48	114	2.71	113	3.14	115	2.28	113	2.92	114	2.50
530.00	529.91	2.0	14.4	-1.03	2.50	112	2.71	112	3.13	113	2.28	112	2.92	113	2.49
532.00	531.90	2.2	14.2	-0.96	2.53	111	2.71	110	3.14	112	2.28	110	2.92	111	2.49
534.00	533.90	2.2	13.7	-0.89	2.55	109	2.70	109	3.13	110	2.27	109	2.91	110	2.49
536.00	535.90	2.3	11.8	-0.81	2.58	108	2.70	107	3.13	108	2.27	107	2.91	108	2.49
538.00	537.90	2.4	13.9	-0.73	2.59	106	2.69	105	3.12	106	2.27	106	2.91	106	2.48
540.00	539.90	2.5	13.5	-0.65	2.61	104	2.69	104	3.12	104	2.26	104	2.91	104	2.48
542.00	541.89	2.5	13.5	-0.57	2.63	102	2.69	102	3.12	102	2.26	102	2.91	102	2.48
544.00	543.89	2.5	14.5	-0.48	2.65	100	2.70	100	3.13	100	2.27	100	2.91	100	2.48
546.00	545.89	2.6	13.0	-0.40	2.68	98	2.71	99	3.14	98	2.28	99	2.92	98	2.49
548.00	547.89	2.6	12.5	-0.31	2.70	97	2.71	97	3.15	96	2.28	97	2.93	96	2.50
550.00	549.89	2.6	10.6	-0.22	2.72	95	2.72	95	3.16	94	2.29	95	2.94	94	2.51
552.00	551.88	2.6	10.1	-0.13	2.73	93	2.74	93	3.17	92	2.31	93	2.95	92	2.52
554.00	553.88	2.6	10.0	-0.04	2.75	91	2.75	92	3.18	90	2.32	91	2.97	90	2.53
556.00	555.88	2.7	9.7	0.05	2.77	89	2.77	90	3.20	88	2.34	89	2.99	89	2.55
558.00	557.88	2.6	11.0	0.13	2.80	87	2.80	88	3.24	86	2.37	88	3.02	87	2.59
560.00	559.87	2.7	8.9	0.22	2.82	85	2.82	86	3.26	84	2.39	86	3.04	85	2.61
561.00	560.87	2.7	7.8	0.27	2.83	85	2.84	86	3.28	83	2.41	85	3.06	84	2.63

Cross Section

All Figures are Log Depths in metres

Plot With Respect to True North

Target Origin Depth 324.47

Last Plotted Depth 561.00

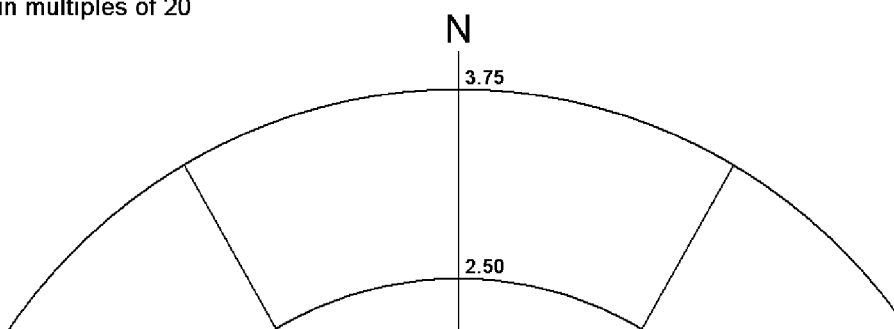
Depth Markers annotated in multiples of 20

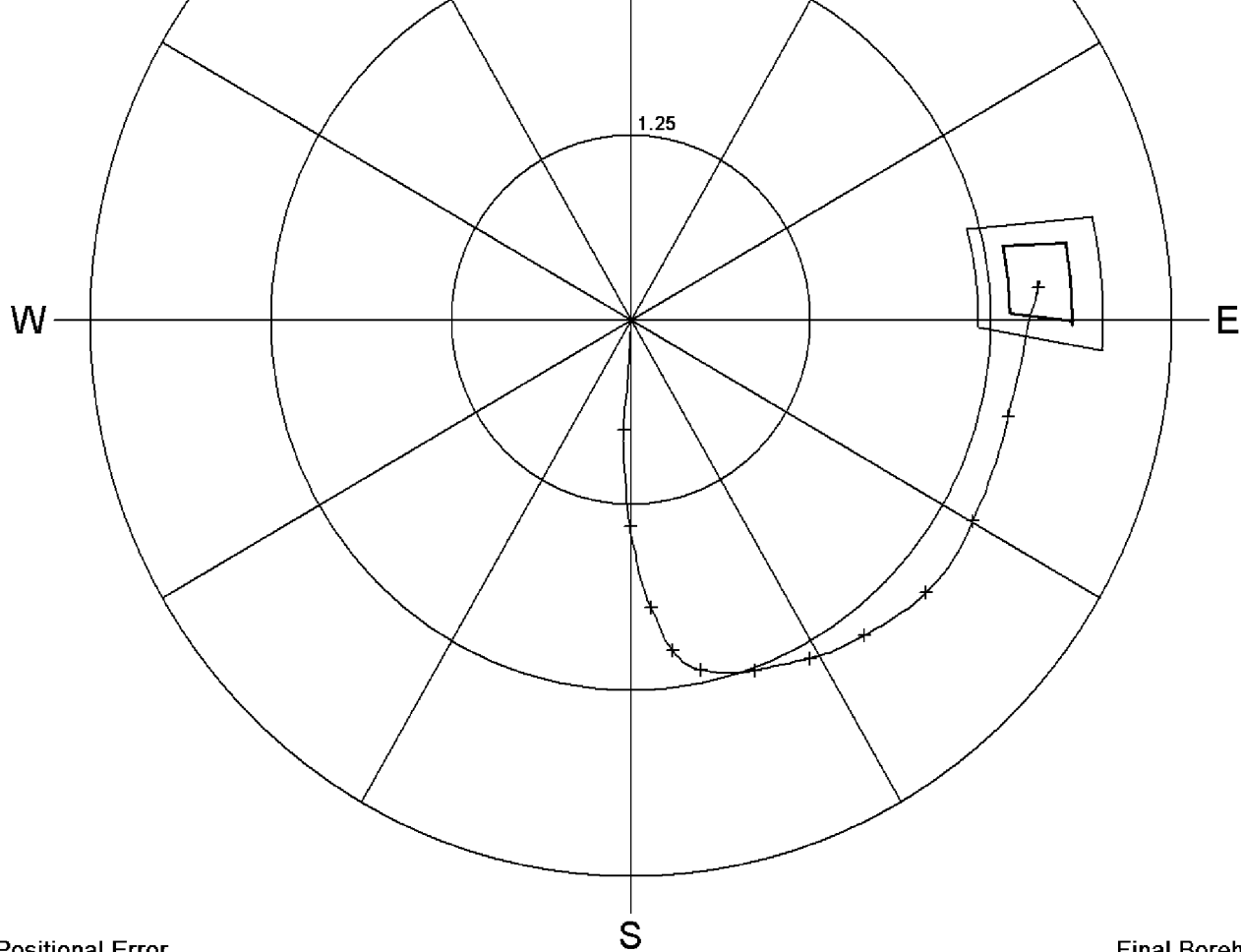
First Depth Marker at 340

Last Depth Marker at 560

Scale 1:50

Declination 0.0 deg





Borehole Positional Error

The two boxes surrounding the last plotted depth show the typical and maximum positional error at that depth.

Final Borehole Position

The last plotted depth is at
0.27 metres North
2.83 metres East
ie 2.84 metres from the origin
85 deg from True North

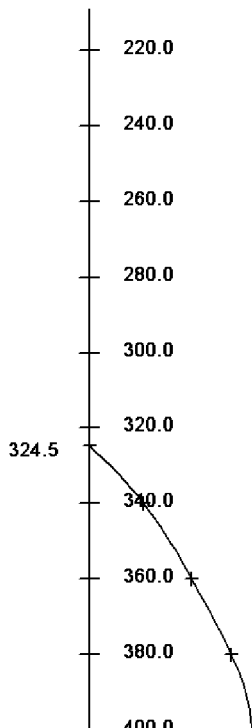
Vertical Sections

North-South Section

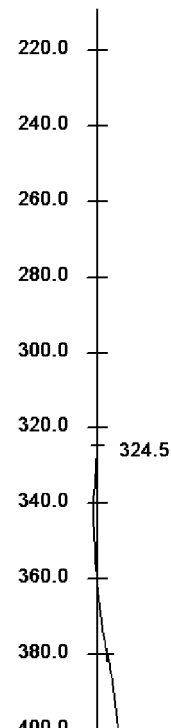
(True Depth vs Displacement)

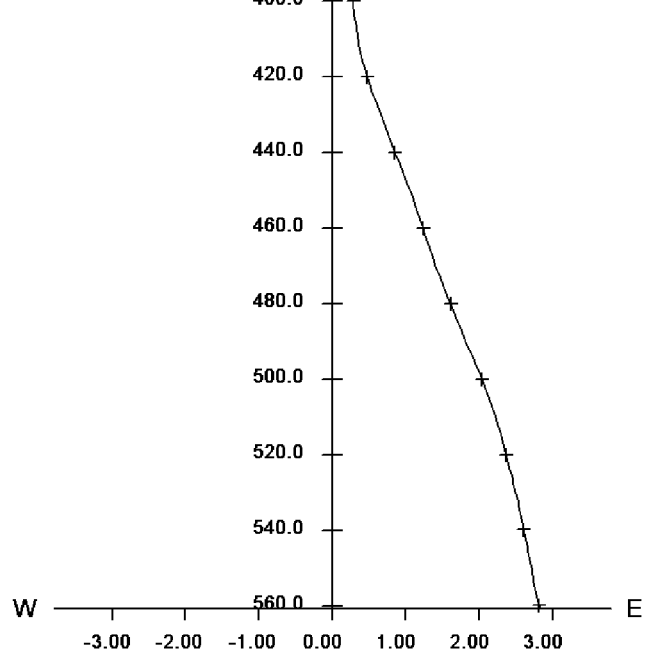
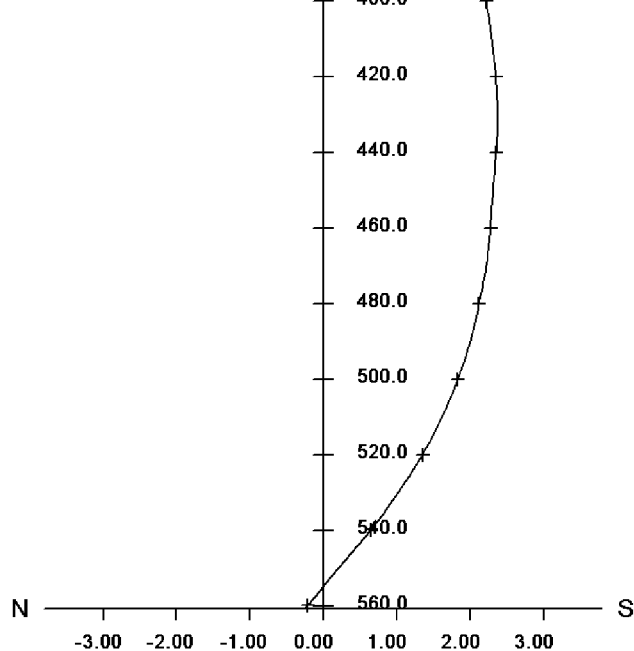
Vertical Scale 1:2000
Horizontal Scale 1:100

Markers annotated as above



East-West Section

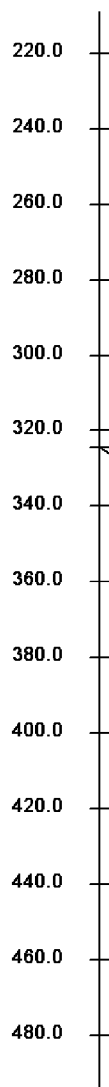




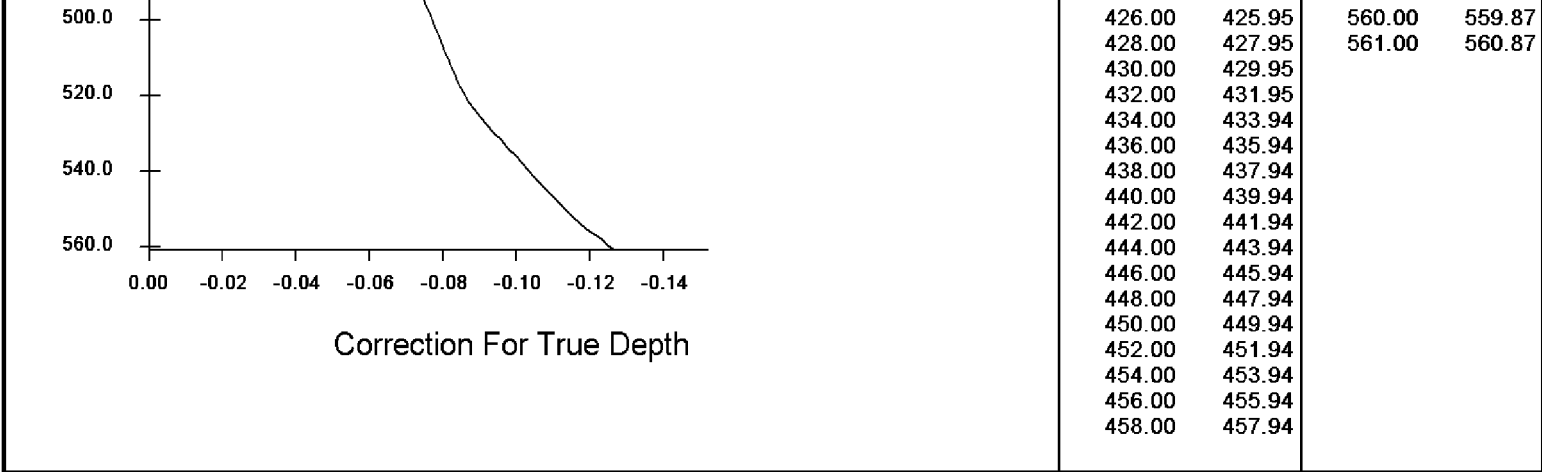
Depth Correction Analysis

Vertical Scale 1:2000
Horizontal Scale 1:2

Log
Depth



Depths		Depths	
Log	True	Log	True
326.00	326.00	460.00	459.94
328.00	327.99	462.00	461.94
330.00	329.99	464.00	463.94
332.00	331.99	466.00	465.94
334.00	333.99	468.00	467.94
336.00	335.98	470.00	469.94
338.00	337.98	472.00	471.94
340.00	339.98	474.00	473.93
342.00	341.98	476.00	475.93
344.00	343.98	478.00	477.93
346.00	345.97	480.00	479.93
348.00	347.97	482.00	481.93
350.00	349.97	484.00	483.93
352.00	351.97	486.00	485.93
354.00	353.97	488.00	487.93
356.00	355.97	490.00	489.93
358.00	357.97	492.00	491.93
360.00	359.97	494.00	493.93
362.00	361.96	496.00	495.92
364.00	363.96	498.00	497.92
366.00	365.96	500.00	499.92
368.00	367.96	502.00	501.92
370.00	369.96	504.00	503.92
372.00	371.96	506.00	505.92
374.00	373.96	508.00	507.92
376.00	375.96	510.00	509.92
378.00	377.96	512.00	511.92
380.00	379.95	514.00	513.92
382.00	381.95	516.00	515.92
384.00	383.95	518.00	517.92
386.00	385.95	520.00	519.91
388.00	387.95	522.00	521.91
390.00	389.95	524.00	523.91
392.00	391.95	526.00	525.91
394.00	393.95	528.00	527.91
396.00	395.95	530.00	529.91
398.00	397.95	532.00	531.90
400.00	399.95	534.00	533.90
402.00	401.95	536.00	535.90
404.00	403.95	538.00	537.90
406.00	405.95	540.00	539.90
408.00	407.95	542.00	541.89
410.00	409.95	544.00	543.89
412.00	411.95	546.00	545.89
414.00	413.95	548.00	547.89
416.00	415.95	550.00	549.89
418.00	417.95	552.00	551.88
420.00	419.95	554.00	553.88
422.00	421.95	556.00	555.88
424.00	423.95	558.00	557.88



COMPANY

WELL

FIELD

PROVINCE/COUNTY

COUNTRY/STATE

LAKES OIL NL
LOY YANG 2
EXPLORATION
QUEENSLAND
AUSTRALIA

Elevation Kelly Bushing	107.65	metres	First Reading	1440.90	metres
Elevation Drill Floor		metres	Depth Driller	1443.00	metres
Elevation Ground Level	104.00	metres	Depth Logger	1442.08	metres

BORHOLE DIRECTION
BGN
1:200

COMPANY

WELL

FIELD

PROVINCE/COUNTY

COUNTRY/STATE

LOCATION

LAKES OIL NL
LOY YANG 2
EXPLORATION
QUEENSLAND
AUSTRALIA
38° 15' 13" S, 146° 33' 31" E

LSD	SEC	TWP	RGE	Other Services	DUAL LATEROLOG	ACOUSTIC
API Number				MICRO LATEROLOG		
Permit Number PEP 166				COMPENSATED SONIC		
Permanent Datum M.S.L., Elevation metres						
Log Measured From R.T @ 107.65 above Permanent Datum						
Drilling Measured From R.T						
Date	17-MAR-2006					
Run Number	TWO					
Depth Driller	1443.00 metres					
Depth Logger	1442.08 metres					
First Reading	1440.90 metres					
Last Reading	0.00 metres					
Casing Driller	215.00 metres					
Casing Logger	216.00 metres					
Bit Size	6.13 inches					
Hole Fluid Type	KCL POLYMER					
Density / Viscosity	1.04 g/cc					
PH / Fluid Loss						
Sample Source	FLOWLINE					
Rm @ Measured Temp	0.762 @ 25.0 ohm-m					
Rmf @ Measured Temp	0.711 @ 25.0 ohm-m					
Rmc @ Measured Temp	0.813 @ 25.0 ohm-m					
Source Rmf / Rmc	PIT PRESS					
Rm @ BHT	0.363 @ 75.0 ohm-m					
Time Since Circulation	7HRS					
Max Recorded Temp	75.00 deg C					
Equipment Name	OILFIELD					
Equipment / Base	8 SALE					
Recorded By	TIM HANSEN					
Witnessed By	TIM O'BRIEN, BEN EDWARDS					
Circ. Stop	17:18/16-MAR					
Last Line						

BORHOLE DIRECTION
BGN
1:200

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

Verticality Analysis Interpretation Notes

25-APR-2006 13:39

All plotted output is automatically scaled to obtain the best visual effect within the physical space available. The maximum scales being 1:50000(metric) and 1:48000(imperial), and the minimum 1:1.

The analysis is derived by integrating 10cm sampled data down the borehole. The listing supplied will contain a maximum of 200 points in multiples of 1, 2, 5, 10, 20, 50 or 100 metres/feet depending on the total range of the analysis. However, the analysis is calculated for the entire range of the borehole and the final borehole position is included in the listing.

Computed verticality may only be fully derived in open sections of the borehole, away from the influence of any unusual magnetic effects, (as the azimuth calculations are derived from three solid state magnetometers). So the analysis will generally begin at the end of the casing and all borehole positional information will relate to this depth.

Up to ten cross sections may be requested for any borehole to be displayed at any scale, (the default scale is that of the cross-section for the entire hole).

Borehole positional error is derived assuming the following parameters.

	TILT (degrees)	AZIMUTH (degrees)
Typical Error	+/- 0.1000	+/- 5.0000
Maximum Error	+/- 0.2000	+/- 8.0000

Error analysis may be calculated and plotted from the data listing as follows:

- Plot the four coordinates from the error listing (based upon zero azimuth error) on a target plot. Origin at the start of the analysis.
- Describe arcs of +/- 10.00 degrees and +/- 15.00 degrees (centre at the origin) through the inner and outer points respectively.
- Connect the respective arcs together with straight lines to give the typical and maximum borehole positional error.

Given below is a full description of the parameters displayed on the ensuing listing:

LOG DEPTH	The depth recorded on the field logs for the borehole.
TRUE DEPTH	The true vertical depth corresponding to the above depth. Corrected from the start of the analysis.
HOLE TILT AND AZIMUTH	The sampled borehole orientation.
AXIAL COORDINATES	The coordinates North and East from the target origin.
POLAR COORDINATES	The polar or radial coordinates of the borehole.
ERROR COORDINATES	The polar coordinates corresponding to the typical and maximum tilt error.

N.B. The reference point for all bearing angles on this listing is given at the top of each sheet.

Verticality Data Listing

C:\Data\Scanner\CDR\Depth\17.dta

All Co-ordinates With Respect To True North, all depths in metres

Date Processed: 25-APR-2006

First Depth 541.30, 0.00 North, 0.00 East of Origin

Date Logged: 18 MAR 2006

DEPTHS		BOREHOLE		AXIAL CO-ORDS		POLAR		POLAR ERROR CO-ORDINATES (MAXIMUM & TYPICAL)							
Log	True	Tilt	Azi	North	East	Brg	Radius	Brg	Radius	Brg	Radius	Brg	Radius	Brg	Radius
542.00	542.00	3.3	358.3	0.04	-0.00	358	0.04	358	0.04	358	0.04	358	0.04	358	0.04
543.00	543.00	3.3	358.3	0.10	-0.00	358	0.10	358	0.10	358	0.09	358	0.10	358	0.09
544.00	544.00	3.3	358.3	0.16	-0.00	358	0.16	358	0.16	358	0.15	358	0.16	358	0.15
545.00	544.99	3.3	358.3	0.21	-0.01	358	0.21	358	0.23	358	0.20	358	0.22	358	0.21
546.00	545.99	3.3	358.3	0.27	-0.01	358	0.27	358	0.29	358	0.25	358	0.28	358	0.26
547.00	546.99	3.3	358.3	0.33	-0.01	358	0.33	358	0.35	358	0.31	358	0.34	358	0.32
548.00	547.99	3.3	358.3	0.39	-0.01	358	0.39	358	0.41	358	0.36	358	0.40	358	0.37
549.00	548.99	3.3	358.3	0.44	-0.01	358	0.44	358	0.47	358	0.42	358	0.46	358	0.43
550.00	549.99	3.3	358.3	0.50	-0.02	358	0.50	358	0.53	358	0.47	358	0.52	358	0.49
551.00	550.98	3.3	358.3	0.56	-0.02	358	0.56	358	0.59	358	0.52	358	0.58	358	0.54
552.00	551.98	3.3	358.3	0.62	-0.02	358	0.62	358	0.65	358	0.58	358	0.63	358	0.60
553.00	552.98	3.3	358.3	0.67	-0.02	358	0.67	358	0.71	358	0.63	358	0.69	358	0.65
554.00	553.98	3.3	358.3	0.73	-0.02	358	0.73	358	0.78	358	0.69	358	0.75	358	0.71
555.00	554.98	3.3	358.3	0.79	-0.02	358	0.79	358	0.84	358	0.74	358	0.81	358	0.77
556.00	555.98	3.3	358.3	0.85	-0.03	358	0.85	358	0.90	358	0.80	358	0.87	358	0.82
557.00	556.97	3.3	358.3	0.90	-0.03	358	0.90	358	0.96	358	0.85	358	0.93	358	0.88
558.00	557.97	3.3	358.3	0.96	-0.03	358	0.96	358	1.02	358	0.90	358	0.99	358	0.93
559.00	558.97	3.3	358.3	1.02	-0.03	358	1.02	358	1.08	358	0.96	358	1.05	358	0.99
560.00	559.97	3.3	358.3	1.08	-0.03	358	1.08	358	1.14	358	1.01	358	1.11	358	1.04
561.00	560.97	3.3	358.3	1.13	-0.03	358	1.13	358	1.20	358	1.07	358	1.17	358	1.10
562.00	561.97	3.3	358.3	1.19	-0.04	358	1.19	358	1.26	358	1.12	358	1.23	358	1.16
563.00	562.96	3.3	358.3	1.25	-0.04	358	1.25	358	1.33	358	1.17	358	1.29	358	1.21
564.00	563.96	3.3	358.3	1.31	-0.04	358	1.31	358	1.39	358	1.23	358	1.35	358	1.27
565.00	564.96	3.3	358.3	1.36	-0.04	358	1.36	358	1.45	358	1.28	358	1.41	358	1.32
566.00	565.96	3.3	358.3	1.42	-0.04	358	1.42	358	1.51	358	1.34	358	1.47	358	1.38
567.00	566.96	3.3	358.3	1.48	-0.04	358	1.48	358	1.57	358	1.39	358	1.52	358	1.44
568.00	567.96	3.3	358.3	1.54	-0.05	358	1.54	358	1.63	358	1.44	358	1.58	358	1.49
569.00	568.95	3.3	358.3	1.59	-0.05	358	1.60	358	1.69	358	1.50	358	1.64	358	1.55
570.00	569.95	3.3	358.3	1.65	-0.05	358	1.65	358	1.75	358	1.55	358	1.70	358	1.60
571.00	570.95	3.3	358.3	1.71	-0.05	358	1.71	358	1.81	358	1.61	358	1.76	358	1.66
572.00	571.95	3.3	358.3	1.77	-0.05	358	1.77	358	1.87	358	1.66	358	1.82	358	1.71
573.00	572.95	3.3	358.3	1.82	-0.05	358	1.83	358	1.94	358	1.72	358	1.88	358	1.77
574.00	573.95	3.3	358.3	1.88	-0.06	358	1.88	358	2.00	358	1.77	358	1.94	358	1.83
575.00	574.94	3.3	358.3	1.94	-0.06	358	1.94	358	2.06	358	1.82	358	2.00	358	1.88
576.00	575.94	3.3	358.3	2.00	-0.06	358	2.00	358	2.12	358	1.88	358	2.06	358	1.94
577.00	576.94	3.3	358.3	2.05	-0.06	358	2.06	358	2.18	358	1.93	358	2.12	358	1.99
578.00	577.94	3.3	358.3	2.11	-0.06	358	2.11	358	2.24	358	1.99	358	2.18	358	2.05
579.00	578.94	3.3	358.3	2.17	-0.07	358	2.17	358	2.30	358	2.04	358	2.24	358	2.11
580.00	579.94	3.3	358.3	2.23	-0.07	358	2.23	358	2.36	358	2.09	358	2.30	358	2.16
581.00	580.93	3.3	358.3	2.29	-0.07	358	2.29	358	2.42	358	2.15	358	2.36	358	2.22
582.00	581.93	3.3	358.3	2.34	-0.07	358	2.34	358	2.49	358	2.20	358	2.41	358	2.27
583.00	582.93	3.3	358.3	2.40	-0.07	358	2.40	358	2.55	358	2.26	358	2.47	358	2.33
584.00	583.93	3.3	358.3	2.46	-0.07	358	2.46	358	2.61	358	2.31	358	2.53	358	2.38
585.00	584.93	3.3	358.3	2.52	-0.08	358	2.52	358	2.67	358	2.36	358	2.59	358	2.44
586.00	585.93	3.3	358.3	2.57	-0.08	358	2.57	358	2.73	358	2.42	358	2.65	358	2.50
587.00	586.92	3.3	358.3	2.63	-0.08	358	2.63	358	2.79	358	2.47	358	2.71	358	2.55
588.00	587.92	3.3	358.3	2.69	-0.08	358	2.69	358	2.85	358	2.53	358	2.77	358	2.61
589.00	588.92	3.3	358.3	2.75	-0.08	358	2.75	358	2.91	358	2.58	358	2.83	358	2.66
590.00	589.92	3.3	358.3	2.80	-0.08	358	2.80	358	2.97	358	2.63	358	2.89	358	2.72
590.50	589.92	3.3	358.3	2.83	-0.08	358	2.83	358	3.00	358	2.66	358	2.92	358	2.75

Cross Section

All Figures are Log Depths in metres

Plot With Respect to True North

Target Origin Depth 541.30

Scale 1:50

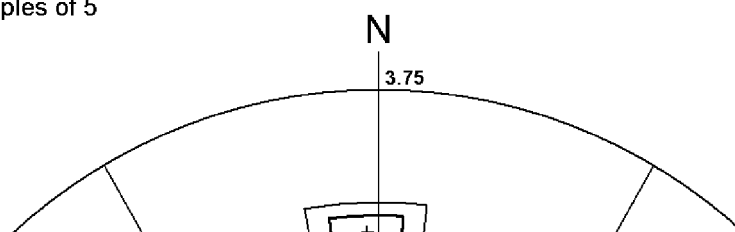
Last Plotted Depth 590.50

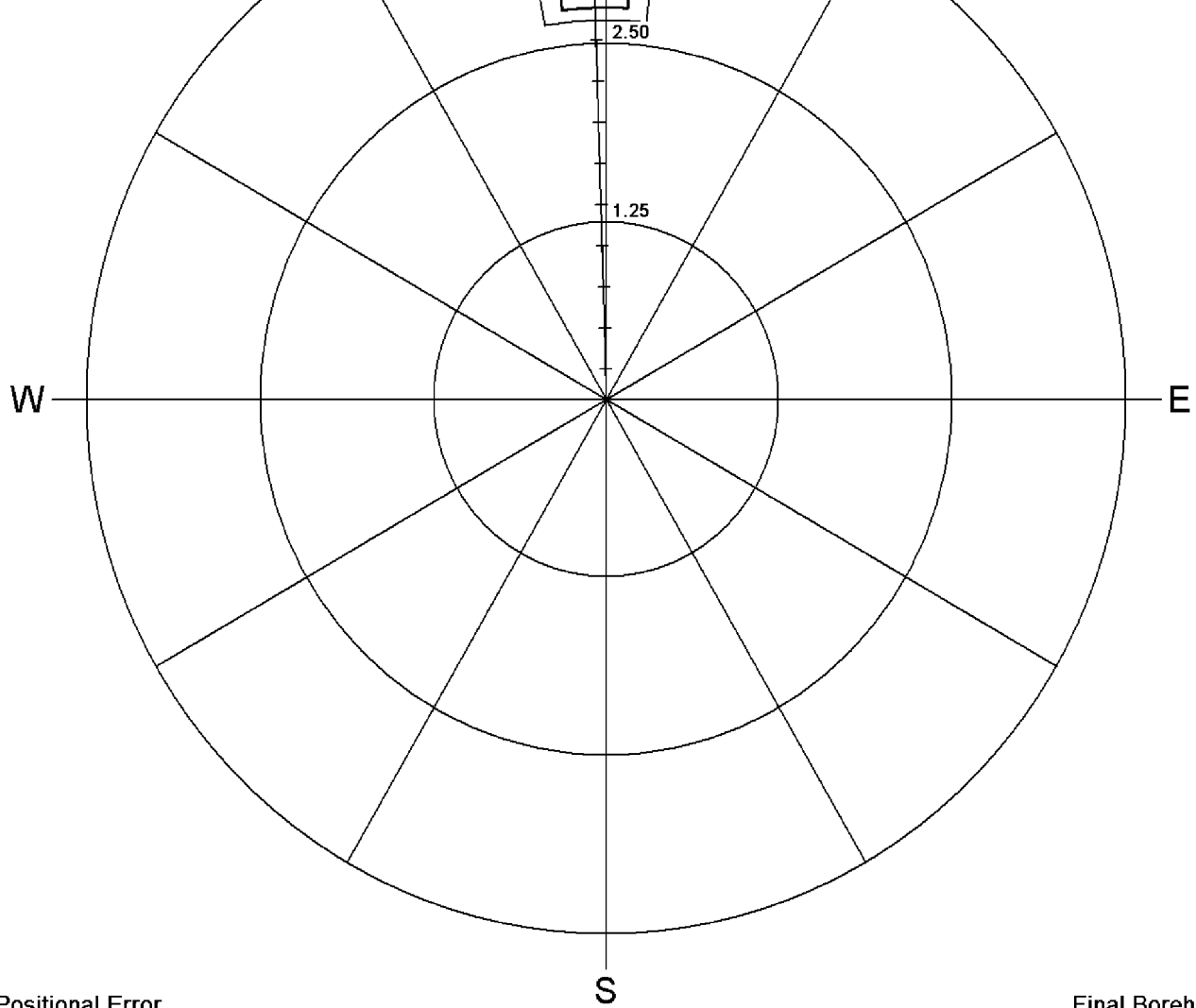
Declination 0.0 deg

Depth Markers annotated in multiples of 5

First Depth Marker at 545

Last Depth Marker at 590





Borehole Positional Error

The two boxes surrounding the last plotted depth show the typical and maximum positional error at that depth.

Final Borehole Position

The last plotted depth is at
2.83 metres North
0.08 metres West
ie 2.83 metres from the origin
358 deg from True North

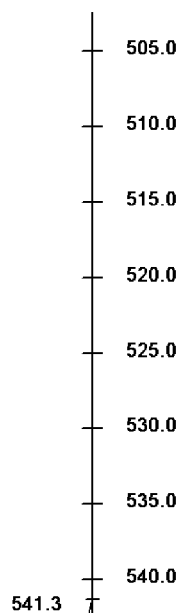
Vertical Sections

North-South Section

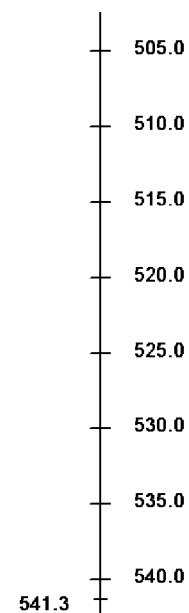
(True Depth vs Displacement)

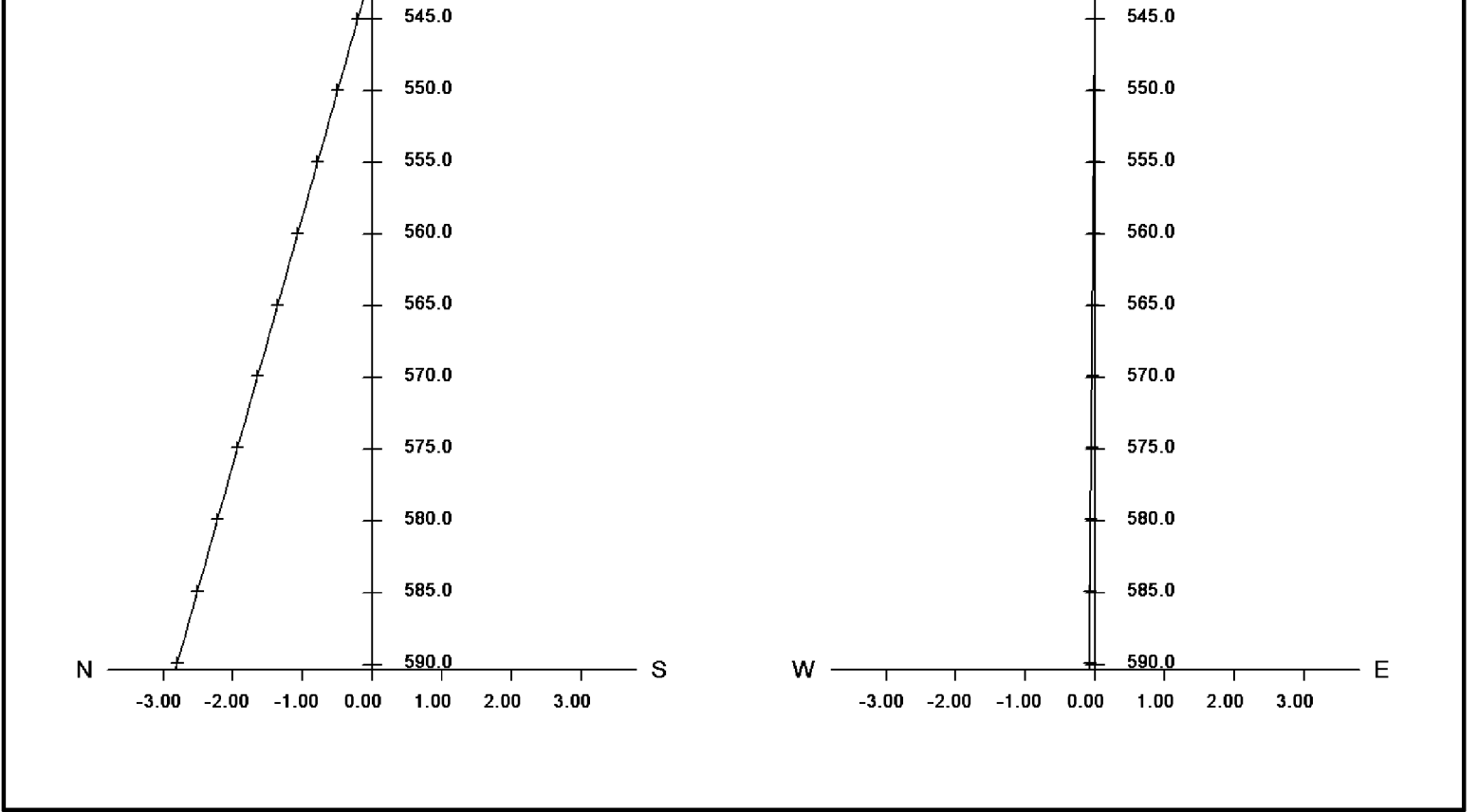
Vertical Scale 1:500
Horizontal Scale 1:100

Markers annotated as above



East-West Section

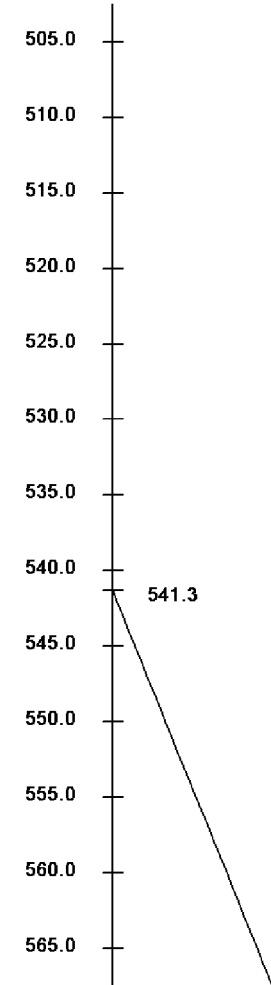




Depth Correction Analysis

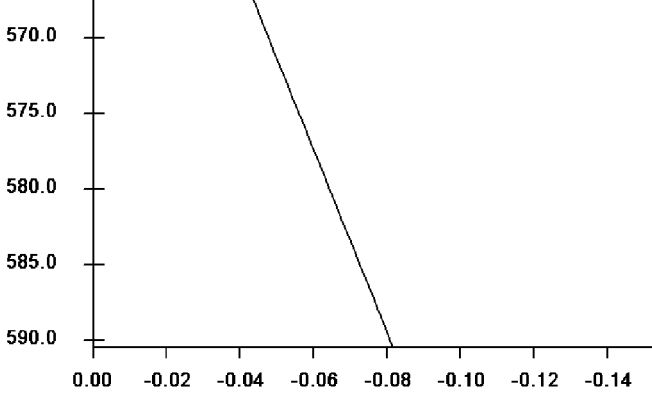
Vertical Scale 1:500
Horizontal Scale 1:2

Log
Depth





Depths	Log	True
542.00	542.00	542.00
543.00	543.00	543.00
544.00	544.00	544.00
545.00	544.99	544.99
546.00	545.99	545.99
547.00	546.99	546.99
548.00	547.99	547.99
549.00	548.99	548.99
550.00	549.99	549.99
551.00	550.98	550.98
552.00	551.98	551.98
553.00	552.98	552.98
554.00	553.98	553.98
555.00	554.98	554.98
556.00	555.98	555.98
557.00	556.97	556.97
558.00	557.97	557.97
559.00	558.97	558.97
560.00	559.97	559.97
561.00	560.97	560.97
562.00	561.97	561.97
563.00	562.96	562.96
564.00	563.96	563.96
565.00	564.96	564.96
566.00	565.96	565.96
567.00	566.96	566.96
568.00	567.96	567.96
569.00	568.95	568.95
570.00	569.95	569.95
571.00	570.95	570.95
572.00	571.95	571.95
573.00	572.95	572.95
574.00	573.95	573.95
575.00	574.94	574.94
576.00	575.94	575.94
577.00	576.94	576.94
578.00	577.94	577.94
579.00	578.94	578.94
580.00	579.94	579.94
581.00	580.93	580.93
582.00	581.93	581.93
583.00	582.93	582.93
584.00	583.93	583.93
585.00	584.93	584.93
586.00	585.93	585.93
587.00	586.92	586.92

588.00	587.92
589.00	588.92
590.00	589.92
590.50	590.42



Correction For True Depth

COMPANY		LAKES OIL NL			
WELL		LOY YANG 2			
FIELD		EXPLORATION			
PROVINCE/COUNTY		QUEENSLAND			
COUNTRY/STATE		AUSTRALIA			
Elevation Kelly Bushing	107.65	metres	First Reading	1440.90	metres
Elevation Drill Floor		metres	Depth Driller	1443.00	metres
Elevation Ground Level	104.00	metres	Depth Logger	1442.08	metres
		BORHOLE DIRECTION			
		BGN			
		1:200			

		PRECISION		BORHOLE	
COMPANY		LAKES OIL NL			
WELL		LOY YANG 2			
FIELD		EXPLORATION			
PROVINCE/COUNTY		QUEENSLAND			
COUNTRY/STATE		AUSTRALIA			
LOCATION		38° 15' 13" S, 146° 33' 31" E			
LSD	SEC	TWP	RGE	Other Services	
API Number		DUAL LATEROLOG		A	
Permit Number PEP 166		MICRO LATEROLOG			
Permanent Datum M.S.L.		Elevation		metres	
Log Measured From R.T. @ 107.65		above Permanent Datum			
Drilling Measured From R.T.					
Date	17-MAR-2006				
Run Number	TWO				
Depth Driller	1443.00		metres		
Depth Logger	1442.08		metres		
First Reading	1440.90		metres		
Last Reading	0.00		metres		
Casing Driller	215.00		metres		
Casing Logger	216.00		metres		
Bit Size	6.13		inches		
Hole Fluid Type	KCL POLYMER				
Density / Viscosity	1.04 g/cc				
PH / Fluid Loss					
Sample Source	FLOWLINE				
Rm @ Measured Temp	0.762 @ 25.0		ohm-m		
Rmf @ Measured Temp	0.711 @ 25.0		ohm-m		
Rmc @ Measured Temp	0.813 @ 25.0		ohm-m		
Source Rmf / Rmc	PIT		PRESS		
Rm @ BHT	0.363 @ 75.0		ohm-m		
Time Since Circulation	7HRS				
Max Recorded Temp	75.00		deg C		
Equipment Name	OILFIELD				
Equipment / Base	8		SALE		
Recorded By	TIM HANSEN				
Witnessed By	TIM O'BRIEN, BEN EDWARDS				
Circ. Stop	17-18/16-MAR				
					Last L

DIRECTION

GN

200

ACOUSTIC SCANNER

Elevations:

KB	107.65	metres
DF		metres
GL	104.00	metres

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

Verticality Analysis Interpretation Notes

25-APR-2006 13:38

All plotted output is automatically scaled to obtain the best visual effect within the physical space available. The maximum scales being 1:50000(metric) and 1:48000(imperial), and the minimum 1:1.

The analysis is derived by integrating 10cm sampled data down the borehole. The listing supplied will contain a maximum of 200 points in multiples of 1, 2, 5, 10, 20, 50 or 100 metres/feet depending on the total range of the analysis. However, the analysis is calculated for the entire range of the borehole and the final borehole position is included in the listing.

Computed verticality may only be fully derived in open sections of the borehole, away from the influence of any unusual magnetic effects, (as the azimuth calculations are derived from three solid state magnetometers). So the analysis will generally begin at the end of the casing and all borehole positional information will relate to this depth.

Up to ten cross sections may be requested for any borehole to be displayed at any scale, (the default scale is that of the cross-section for the entire hole).

Borehole positional error is derived assuming the following parameters.

	TILT (degrees)	AZIMUTH (degrees)
Typical Error	+/- 0.1000	+/- 5.0000
Maximum Error	+/- 0.2000	+/- 8.0000

Error analysis may be calculated and plotted from the data listing as follows:

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- Connect the respective arcs together with straight lines to give the typical and maximum borehole positional error.

Given below is a full description of the parameters displayed on the ensuing listing:

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TRUE DEPTH	The true vertical depth corresponding to the above depth. Corrected from the start of the analysis.
HOLE TILT AND AZIMUTH	The sampled borehole orientation.
AXIAL COORDINATES	The coordinates North and East from the target origin.
POLAR COORDINATES	The polar or radial coordinates of the borehole.
ERROR COORDINATES	The polar coordinates corresponding to the typical and maximum tilt error.

N.B. The reference point for all bearing angles on this listing is given at the top of each sheet.

Verticality Data Listing

C:\Data\Scanner\CDR\Depth\16.dta

All Co-ordinates With Respect To True North, all depths in metres

Date Processed: 25-APR-2006

First Depth 574.22, 0.00 North, 0.00 East of Origin

Date Logged: 18 MAR 2006

DEPTHS		BOREHOLE		AXIAL CO-ORDS		POLAR		POLAR ERROR CO-ORDINATES (MAXIMUM & TYPICAL)							
Log	True	Tilt	Azi	North	East	Brg	Radius	Brg	Radius	Brg	Radius	Brg	Radius	Brg	Radius
575.00	575.00	3.3	358.0	0.05	-0.00	358	0.05	358	0.05	358	0.04	358	0.05	358	0.04
576.00	576.00	3.4	358.6	0.10	-0.00	358	0.10	358	0.11	358	0.10	358	0.11	358	0.10
577.00	577.00	3.4	0.1	0.16	-0.00	359	0.16	359	0.17	359	0.15	359	0.17	359	0.16
578.00	577.99	3.4	359.4	0.22	-0.00	359	0.22	359	0.23	359	0.21	359	0.23	359	0.22
579.00	578.99	3.4	0.1	0.28	-0.00	359	0.28	359	0.30	359	0.26	359	0.29	359	0.27
580.00	579.99	3.4	1.4	0.34	-0.00	359	0.34	359	0.36	359	0.32	359	0.35	359	0.33
581.00	580.99	3.4	2.0	0.40	-0.00	360	0.40	360	0.42	360	0.38	360	0.41	360	0.39
582.00	581.99	3.4	1.9	0.46	0.00	0	0.46	0	0.48	0	0.43	0	0.47	0	0.44
583.00	582.98	3.4	1.4	0.52	0.00	0	0.52	0	0.55	0	0.49	0	0.53	0	0.50
584.00	583.98	3.4	4.7	0.58	0.01	1	0.58	1	0.61	1	0.54	1	0.59	1	0.56
585.00	584.98	3.5	5.0	0.64	0.01	1	0.64	1	0.67	1	0.60	1	0.65	1	0.62
586.00	585.98	3.5	4.8	0.70	0.02	1	0.70	1	0.74	1	0.65	1	0.72	1	0.67
587.00	586.98	3.5	4.9	0.75	0.02	2	0.75	2	0.80	2	0.71	2	0.78	2	0.73
588.00	587.98	3.4	6.0	0.81	0.03	2	0.81	2	0.86	2	0.77	2	0.84	2	0.79
589.00	588.97	3.3	5.4	0.87	0.03	2	0.87	2	0.92	2	0.82	2	0.90	2	0.85
590.00	589.97	3.4	5.6	0.93	0.04	2	0.93	2	0.99	2	0.88	2	0.96	2	0.90
591.00	590.97	3.4	5.5	0.99	0.04	3	0.99	3	1.05	3	0.93	3	1.02	3	0.96
592.00	591.97	3.4	5.5	1.05	0.05	3	1.05	3	1.11	3	0.99	3	1.08	3	1.02
593.00	592.97	3.5	6.0	1.11	0.06	3	1.11	3	1.18	3	1.05	3	1.14	3	1.08
594.00	593.96	3.5	6.6	1.17	0.07	3	1.17	3	1.24	3	1.10	3	1.21	3	1.14
595.00	594.96	3.5	5.0	1.23	0.07	3	1.23	3	1.30	3	1.16	3	1.27	3	1.20
596.00	595.96	3.5	5.0	1.29	0.08	4	1.29	4	1.37	4	1.22	4	1.33	4	1.26
597.00	596.96	3.5	5.3	1.35	0.09	4	1.36	4	1.44	4	1.28	4	1.40	4	1.32
598.00	597.96	3.5	4.6	1.42	0.09	4	1.42	4	1.50	4	1.34	4	1.46	4	1.38
599.00	598.95	3.6	3.9	1.48	0.10	4	1.49	4	1.57	4	1.40	4	1.53	4	1.44
600.00	599.95	3.6	4.3	1.54	0.11	4	1.55	4	1.64	4	1.46	4	1.59	4	1.50
601.00	600.95	3.7	4.4	1.61	0.11	4	1.61	4	1.71	4	1.52	4	1.66	4	1.57
602.00	601.95	3.7	4.3	1.68	0.12	4	1.68	4	1.78	4	1.58	4	1.73	4	1.63
603.00	602.94	3.8	3.5	1.74	0.13	4	1.75	4	1.85	4	1.65	4	1.80	4	1.70
604.00	603.94	3.8	3.4	1.81	0.13	4	1.81	4	1.92	4	1.71	4	1.86	4	1.76
605.00	604.94	3.8	2.2	1.87	0.14	4	1.88	4	1.99	4	1.77	4	1.93	4	1.83
606.00	605.94	3.8	1.1	1.94	0.14	4	1.95	4	2.06	4	1.83	4	2.00	4	1.89
607.00	606.94	3.8	0.9	2.01	0.14	4	2.01	4	2.13	4	1.90	4	2.07	4	1.95
608.00	607.93	3.8	0.2	2.07	0.14	4	2.08	4	2.20	4	1.96	4	2.14	4	2.02
609.00	608.93	3.9	0.2	2.14	0.14	4	2.15	4	2.27	4	2.02	4	2.21	4	2.09
610.00	609.93	3.8	359.0	2.21	0.14	4	2.21	4	2.34	4	2.09	4	2.28	4	2.15
610.50	609.93	3.9	358.9	2.24	0.14	4	2.25	4	2.37	4	2.12	4	2.31	4	2.18

Cross Section

All Figures are Log Depths in metres

Plot With Respect to True North

Target Origin Depth 574.22

Scale 1:50

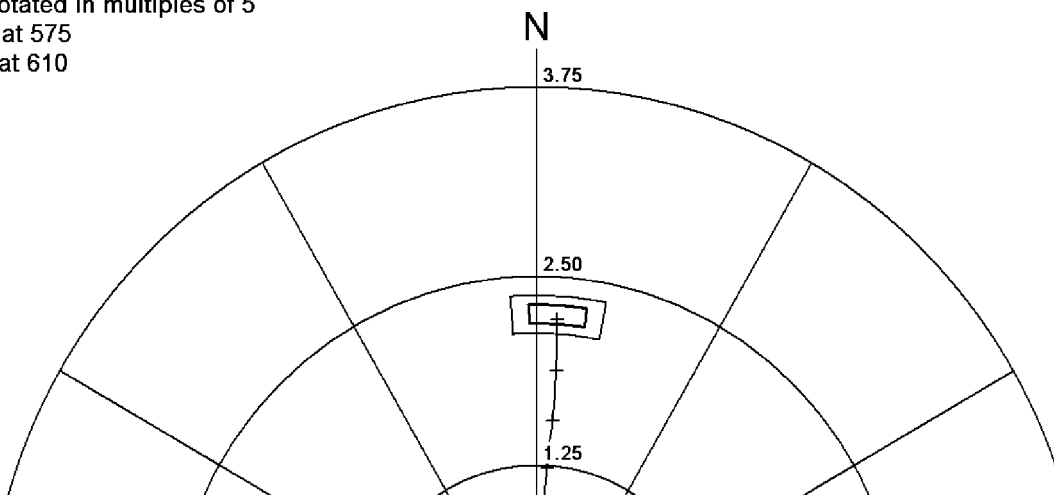
Last Plotted Depth 610.50

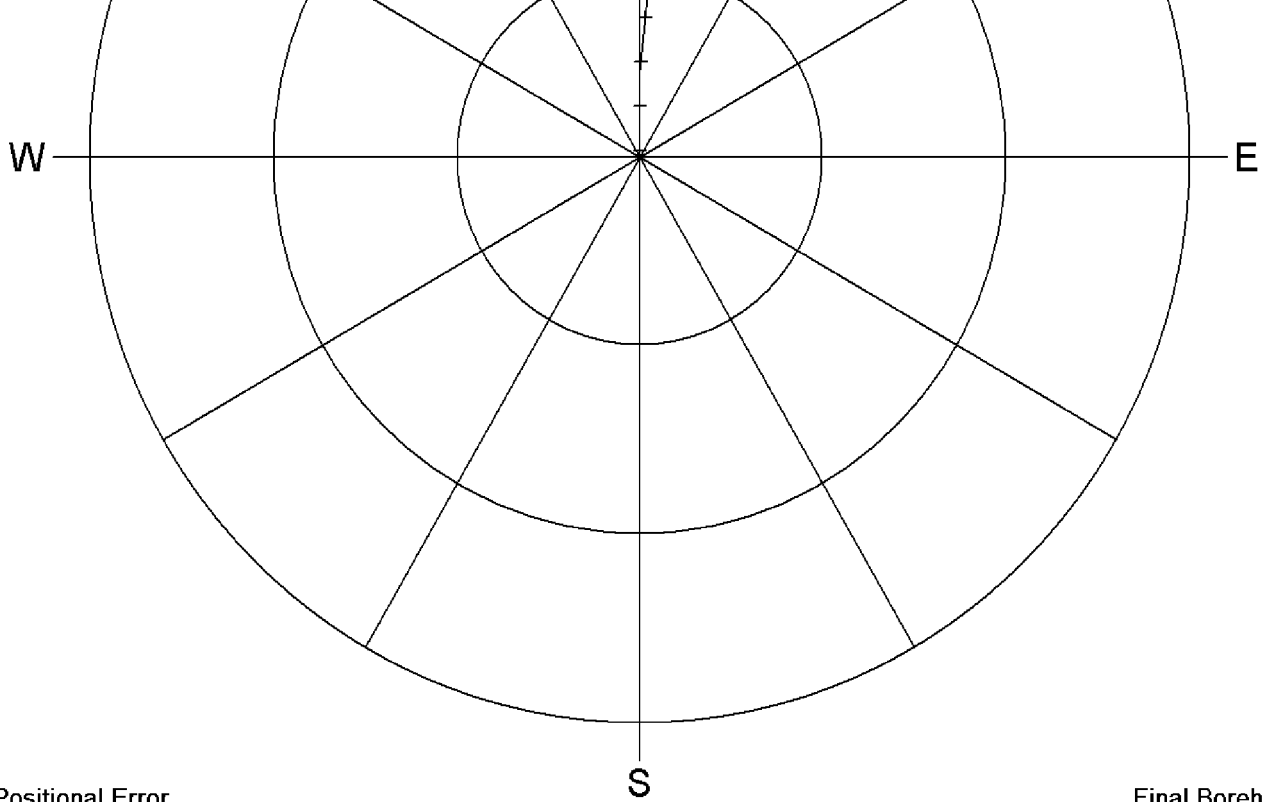
Declination 0.0 deg

Depth Markers annotated in multiples of 5

First Depth Marker at 575

Last Depth Marker at 610





Borehole Positional Error

The two boxes surrounding the last plotted depth show the typical and maximum positional error at that depth.

Final Borehole Position

The last plotted depth is at
2.24 metres North
0.14 metres East
ie 2.25 metres from the origin
4 deg from True North

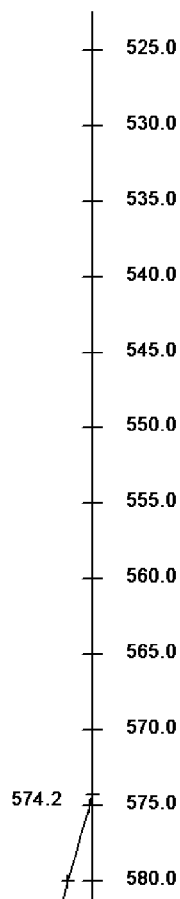
Vertical Sections

North-South Section

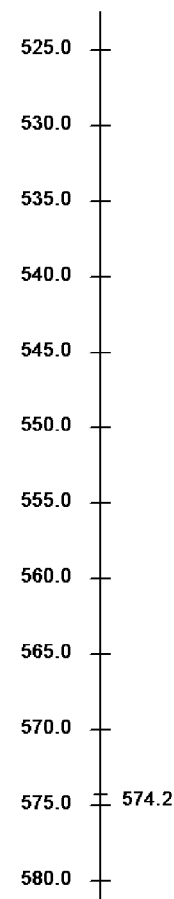
(True Depth vs Displacement)

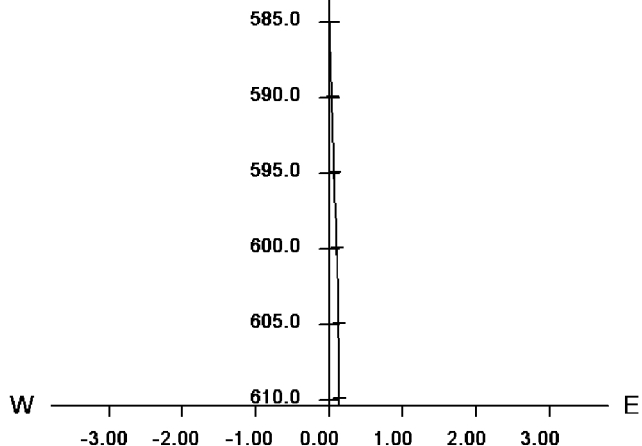
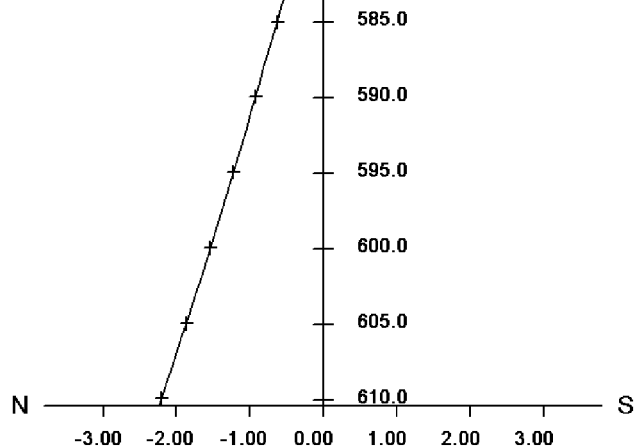
Vertical Scale 1:500
Horizontal Scale 1:100

Markers annotated as above



East-West Section

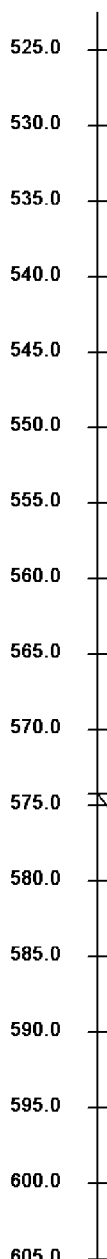




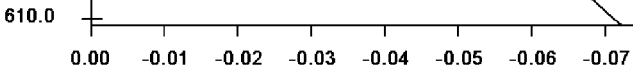
Depth Correction Analysis

Vertical Scale 1:500
Horizontal Scale 1:1


Log
Depth




Depths	Log	True
575.00	575.00	575.00
576.00	576.00	576.00
577.00	577.00	577.00
578.00	577.99	578.00
579.00	578.99	579.00
580.00	579.99	580.00
581.00	580.99	581.00
582.00	581.99	582.00
583.00	582.98	583.00
584.00	583.98	584.00
585.00	584.98	585.00
586.00	585.98	586.00
587.00	586.98	587.00
588.00	587.98	588.00
589.00	588.97	589.00
590.00	589.97	590.00
591.00	590.97	591.00
592.00	591.97	592.00
593.00	592.97	593.00
594.00	593.96	594.00
595.00	594.96	595.00
596.00	595.96	596.00
597.00	596.96	597.00
598.00	597.96	598.00
599.00	598.95	599.00
600.00	599.95	600.00
601.00	600.95	601.00
602.00	601.95	602.00
603.00	602.94	603.00
604.00	603.94	604.00
605.00	604.94	605.00
606.00	605.94	606.00
607.00	606.94	607.00
608.00	607.93	608.00
609.00	608.93	609.00
610.00	609.93	610.00
610.50	610.43	610.50



Correction For True Depth

COMPANY	LAKES OIL NL				
WELL	LOY YANG 2				
FIELD	EXPLORATION				
PROVINCE/COUNTY	QUEENSLAND				
COUNTRY/STATE	AUSTRALIA				
Elevation Kelly Bushing	107.65	metres	First Reading	1440.90	metres
Elevation Drill Floor		metres	Depth Driller	1443.00	metres
Elevation Ground Level	104.00	metres	Depth Logger	1442.08	metres
<div>BORHOLE DIRECTION BGN 1:200</div>					

<div>BORHOLE DIRECTION BGN 1:200</div>					
COMPANY			LAKES OIL NL		
WELL			LOY YANG 2		
FIELD			EXPLORATION		
PROVINCE/COUNTY			QUEENSLAND		
COUNTRY/STATE			AUSTRALIA		
LOCATION			38° 15' 13" S, 146° 33' 31" E		
LSD	SEC	TWP	RGE	Other Services DUAL LATEROLOG MICRO LATEROLOG COMPENSATED SONIC ACOUSTIC SCANNER	
API Number					
Permit Number PEP 166					
Permanent Datum M.S.L			, Elevation metres		
Log Measured From R.T@ 107.65			above Permanent Datum		
Drilling Measured From R.T					
Date	17-MAR-2006				
Run Number	TWO				
Depth Driller	1443.00		metres		
Depth Logger	1442.08		metres		
First Reading	1440.90		metres		
Last Reading	0.00		metres		
Casing Driller	215.00		metres		
Casing Logger	216.00		metres		
Bit Size	6.13		inches		
Hole Fluid Type	KCL POLYMER				
Density / Viscosity	1.04 g/cc				
PH / Fluid Loss					
Sample Source			FLOWLINE		
Rm @ Measured Temp	0.762 @ 25.0		ohm-m		
Rmf @ Measured Temp	0.711 @ 25.0		ohm-m		
Rmc @ Measured Temp	0.813 @ 25.0		ohm-m		
Source Rmf / Rmc	PIT		PRESS		
Rm @ BHT	0.363 @ 75.0		ohm-m		
Time Since Circulation	7HRS				
Max Recorded Temp	75.00		deg C		
Equipment Name	OILFIELD				
Equipment / Base	8		SALE		
Recorded By	TIM HANSEN				
Witnessed By	TIM O'BRIEN, BEN EDWARDS				
Circ. Stop	17:18/16-MAR		Last Line		

25-APR-2006 13:37

N.B. The reference point for all bearing angles on this listing is given at the top of each sheet.

Date Logged: 18 MAR 2006

DEPTHS		BOREHOLE		AXIAL CO-ORDS		POLAR		POLAR ERROR CO-ORDINATES (MAXIMUM & TYPICAL)							
Log	True	Tilt	Azi	North	East	Brg	Radius	Brg	Radius	Brg	Radius	Brg	Radius	Brg	Radius
594.00	593.25	152.5	0.6	0.15	0.02	6	0.15	6	0.15	6	0.15	6	0.15	6	0.15
595.00	592.36	152.6	0.3	0.60	0.04	4	0.60	4	0.60	4	0.61	4	0.60	4	0.60
596.00	592.06	3.7	0.9	0.93	0.04	3	0.93	3	0.93	3	0.94	3	0.93	3	0.93
597.00	593.06	3.8	0.0	0.99	0.04	3	1.00	3	0.99	3	1.00	3	0.99	3	1.00
598.00	594.06	3.8	0.6	1.05	0.05	3	1.06	3	1.06	3	1.05	3	1.06	3	1.05
599.00	595.05	3.9	359.4	1.12	0.05	2	1.12	2	1.13	2	1.12	2	1.12	2	1.12
600.00	596.05	3.9	359.5	1.19	0.05	2	1.19	2	1.20	2	1.18	2	1.19	2	1.18
601.00	597.05	4.0	358.9	1.26	0.04	2	1.26	2	1.27	2	1.25	2	1.26	2	1.25
602.00	598.05	4.0	358.9	1.33	0.04	2	1.33	2	1.34	2	1.31	2	1.33	2	1.32
603.00	599.04	4.1	358.9	1.40	0.04	2	1.40	2	1.42	2	1.38	2	1.41	2	1.39
604.00	600.04	4.1	358.8	1.47	0.04	2	1.47	2	1.49	2	1.45	2	1.48	2	1.46
605.00	601.04	4.1	358.8	1.54	0.04	1	1.54	1	1.57	1	1.51	1	1.55	1	1.53
606.00	602.04	4.1	357.6	1.61	0.03	1	1.61	1	1.64	1	1.58	1	1.63	1	1.60
607.00	603.03	4.1	357.4	1.68	0.03	1	1.68	1	1.72	1	1.65	1	1.70	1	1.67
608.00	604.03	4.2	357.3	1.76	0.03	1	1.76	1	1.79	1	1.72	1	1.77	1	1.74
609.00	605.03	4.2	357.4	1.83	0.02	1	1.83	1	1.87	1	1.79	1	1.85	1	1.81
610.00	606.03	4.2	356.9	1.90	0.02	1	1.90	1	1.95	1	1.86	1	1.92	1	1.88
611.00	607.02	4.2	356.3	1.98	0.02	0	1.98	0	2.02	1	1.93	0	2.00	0	1.95
612.00	608.02	4.2	355.6	2.05	0.01	0	2.05	0	2.10	0	2.00	0	2.08	0	2.03
613.00	609.02	4.2	355.4	2.12	0.00	0	2.12	0	2.17	0	2.07	0	2.15	0	2.09
614.00	610.01	4.2	356.7	2.19	-0.00	360	2.19	360	2.25	360	2.13	360	2.22	360	2.16
615.00	611.01	4.3	355.6	2.26	-0.01	360	2.26	360	2.32	360	2.20	360	2.29	360	2.23
616.00	612.01	4.3	354.7	2.33	-0.02	360	2.33	359	2.39	360	2.27	360	2.36	360	2.30
617.00	613.01	4.3	353.6	2.41	-0.03	359	2.41	359	2.47	359	2.34	359	2.44	359	2.37
618.00	614.00	4.3	353.6	2.48	-0.03	359	2.48	359	2.55	359	2.41	359	2.52	359	2.45
619.00	615.00	4.3	353.0	2.55	-0.05	359	2.55	359	2.63	359	2.48	359	2.59	359	2.51
620.00	616.00	4.3	352.4	2.63	-0.06	359	2.63	359	2.70	359	2.55	359	2.67	359	2.59
621.00	616.99	4.4	352.1	2.70	-0.07	359	2.70	359	2.78	359	2.62	359	2.74	359	2.66
622.00	617.99	4.4	352.4	2.77	-0.08	358	2.77	358	2.86	358	2.69	358	2.82	358	2.73
623.00	618.99	4.4	352.7	2.85	-0.09	358	2.85	358	2.94	358	2.76	358	2.89	358	2.80
624.00	619.99	4.4	352.6	2.92	-0.10	358	2.92	358	3.02	358	2.83	358	2.97	358	2.88
625.00	620.98	4.3	352.1	3.00	-0.11	358	3.00	358	3.10	358	2.91	358	3.05	358	2.95
626.00	621.98	4.4	352.3	3.07	-0.12	358	3.08	358	3.17	358	2.98	358	3.13	358	3.03
627.00	622.98	4.4	352.3	3.15	-0.13	358	3.15	358	3.25	358	3.05	358	3.20	358	3.10
628.00	623.97	4.4	352.5	3.23	-0.14	358	3.23	357	3.33	358	3.12	357	3.28	358	3.18
629.00	624.97	4.3	352.4	3.30	-0.15	357	3.30	357	3.41	357	3.20	357	3.36	357	3.25
630.00	625.97	4.4	353.1	3.38	-0.16	357	3.38	357	3.49	357	3.27	357	3.44	357	3.32
631.00	626.97	4.4	353.5	3.45	-0.17	357	3.46	357	3.57	357	3.34	357	3.51	357	3.40
632.00	627.96	4.3	354.0	3.53	-0.18	357	3.53	357	3.65	357	3.41	357	3.59	357	3.47
633.00	628.96	4.4	353.9	3.60	-0.19	357	3.60	357	3.73	357	3.48	357	3.67	357	3.54
634.00	629.96	4.3	354.7	3.67	-0.20	357	3.68	357	3.80	357	3.55	357	3.74	357	3.61
635.00	630.95	4.4	356.0	3.75	-0.21	357	3.75	357	3.88	357	3.62	357	3.82	357	3.69
636.00	631.95	4.4	356.0	3.82	-0.21	357	3.83	357	3.96	357	3.70	357	3.90	357	3.76
637.00	632.95	4.5	355.3	3.90	-0.22	357	3.91	357	4.04	357	3.77	357	3.97	357	3.84
638.00	633.94	4.6	355.2	3.98	-0.23	357	3.98	357	4.12	357	3.84	357	4.05	357	3.91
639.00	634.94	4.6	353.8	4.05	-0.24	357	4.06	357	4.20	357	3.92	357	4.13	357	3.99
640.00	635.94	4.6	353.9	4.13	-0.25	357	4.14	356	4.29	357	4.00	357	4.22	357	4.07
641.00	636.93	4.7	353.0	4.21	-0.26	356	4.22	356	4.37	356	4.07	356	4.30	356	4.15
642.00	637.93	4.8	351.7	4.29	-0.27	356	4.30	356	4.46	356	4.15	356	4.38	356	4.23
643.00	638.93	4.8	351.5	4.38	-0.29	356	4.38	356	4.54	356	4.23	356	4.46	356	4.31
644.00	639.92	4.8	351.3	4.46	-0.30	356	4.47	356	4.63	356	4.31	356	4.55	356	4.39
645.00	640.92	4.8	351.8	4.54	-0.31	356	4.55	356	4.72	356	4.39	356	4.63	356	4.47
646.00	641.92	4.9	351.6	4.63	-0.32	356	4.64	356	4.80	356	4.47	356	4.72	356	4.55
647.00	642.91	4.9	352.8	4.71	-0.34	356	4.72	356	4.89	356	4.55	356	4.81	356	4.64
648.00	643.91	5.0	352.0	4.80	-0.35	356	4.81	356	4.98	356	4.63	356	4.90	356	4.72
649.00	644.91	5.1	351.3	4.88	-0.36	356	4.90	356	5.07	356	4.72	356	4.98	356	4.81
650.00	645.90	5.1	351.8	4.97	-0.37	356	4.98	356	5.17	356	4.80	356	5.08	356	4.89
651.00	646.90	5.2	352.6	5.06	-0.38	356	5.07	356	5.26	356	4.89	356	5.17	356	4.98
652.00	647.89	5.3	352.4	5.15	-0.40	356	5.17	356	5.35	356	4.98	356	5.26	356	5.07
653.00	648.89	5.4	352.1	5.24	-0.42	355	5.26	355	5.45	355	5.07	355	5.35	355	5.16
654.00	649.88	5.6	351.5	5.33	-0.45	355	5.35	355	5.54	355	5.16	355	5.45	355	5.25
655.00	650.88	5.5	351.0	5.43	-0.47	355	5.45	355	5.64	355	5.25	355	5.54	355	5.35
656.00	651.87	5.5	349.7	5.52	-0.48	355	5.54	355	5.74	355	5.34	355	5.64	355	5.44
657.00	652.87	5.6	349.5	5.61	-0.51	355	5.64	355	5.84	355	5.43	355	5.74	355	5.53
658.00	653.86	5.6	349.9	5.71	-0.52	355	5.73	355	5.94	355	5.52	355	5.84	355	5.63
659.00	654.86	5.6	350.8	5.80	-0.54	355	5.83	355	6.04	355	5.62	355	5.93	355	5.72
660.00	655.85	5.7	350.2	5.90	-0.56	355	5.93	355	6.14	355	5.71	355	6.03	355	5.82
661.00	656.85	5.8	351.0	6.00	-0.58	354	6.03	354	6.25	355	5.81	354	6.14	354	5.92
662.00	657.84	5.8	350.4	6.10	-0.60	354	6.13	354	6.35	354	5.91	354	6.24	354	6.02
663.00	658.84	5.9	351.0	6.20	-0.61	354	6.23	354	6.46	354	6.01	354	6.34	354	6.12
664.00	659.83	6.0	351.2	6.30	-0.63	354	6.34	354	6.56	354	6.11	354	6.45	354	6.22
665.00	660.83	6.0	351.3	6.41	-0.65	354	6.44	354	6.67	354	6.21	354	6.56	354	6.32
666.00	661.82	5.9	350.5	6.51	-0.66	354	6.54	354	6.78	354	6.31	354	6.66	354	6.43
667.00	662.81	6.0	350.4	6.61	0.68	354	6.65	354	6.89	354	6.41	354	6.77	354	6.53

668.00	663.81	6.0	349.8	6.72	-0.70	354	6.75	354	7.00	354	6.51	354	6.87	354	6.63
669.00	664.80	6.0	349.8	6.82	-0.72	354	6.86	354	7.10	354	6.61	354	6.98	354	6.73
670.00	665.80	6.1	349.3	6.92	-0.74	354	6.96	354	7.21	354	6.71	354	7.09	354	6.84
671.00	666.79	6.2	350.5	7.03	-0.75	354	7.07	354	7.32	354	6.81	354	7.20	354	6.94
672.00	667.79	6.2	350.5	7.14	-0.77	354	7.18	354	7.43	354	6.92	354	7.31	354	7.05
673.00	668.78	6.2	350.4	7.24	-0.79	354	7.29	354	7.55	354	7.03	354	7.42	354	7.16
674.00	669.77	6.3	350.3	7.35	-0.82	354	7.40	354	7.66	354	7.14	354	7.53	354	7.27
675.00	670.77	6.3	350.5	7.46	-0.84	354	7.51	354	7.78	354	7.24	354	7.64	354	7.38
676.00	671.76	6.4	350.4	7.57	-0.86	354	7.62	354	7.89	354	7.35	354	7.75	354	7.48
677.00	672.75	6.4	350.5	7.68	-0.88	353	7.73	353	8.01	353	7.46	353	7.87	353	7.59
678.00	673.75	6.4	350.1	7.80	-0.91	353	7.85	353	8.13	353	7.57	353	7.99	353	7.71
679.00	674.74	6.5	350.4	7.91	-0.93	353	7.96	353	8.24	353	7.68	353	8.10	353	7.82
680.00	675.73	6.6	350.1	8.02	-0.95	353	8.07	353	8.36	353	7.79	353	8.22	353	7.93
681.00	676.73	6.6	350.5	8.13	-0.97	353	8.19	353	8.48	353	7.90	353	8.34	353	8.05
682.00	677.72	6.7	351.5	8.25	-0.99	353	8.31	353	8.60	353	8.02	353	8.45	353	8.16
683.00	678.71	6.7	351.6	8.36	-1.01	353	8.43	353	8.72	353	8.13	353	8.57	353	8.28
684.00	679.71	6.8	352.0	8.48	-1.02	353	8.54	353	8.84	353	8.24	353	8.69	353	8.39
685.00	680.70	6.8	351.7	8.60	-1.04	353	8.66	353	8.96	353	8.36	353	8.81	353	8.51
686.00	681.69	6.9	350.9	8.72	-1.06	353	8.78	353	9.09	353	8.48	353	8.93	353	8.63
687.00	682.68	7.0	349.8	8.84	-1.08	353	8.90	353	9.21	353	8.59	353	9.06	353	8.75
688.00	683.68	7.0	349.0	8.96	-1.10	353	9.02	353	9.34	353	8.71	353	9.18	353	8.87
689.00	684.67	7.0	348.6	9.08	-1.12	353	9.15	353	9.46	353	8.83	353	9.30	353	8.99
690.00	685.66	7.1	348.6	9.20	-1.15	353	9.27	353	9.59	353	8.95	353	9.43	353	9.11
691.00	686.65	7.1	348.2	9.32	-1.17	353	9.39	353	9.72	353	9.07	353	9.55	353	9.23
692.00	687.64	7.2	348.9	9.44	-1.20	353	9.52	353	9.84	353	9.19	353	9.68	353	9.36
693.00	688.64	7.3	349.2	9.57	-1.22	353	9.65	353	9.98	353	9.32	353	9.81	353	9.48
694.00	689.63	7.3	349.9	9.70	-1.24	353	9.78	353	10.11	353	9.44	353	9.94	353	9.61
695.00	690.62	7.3	350.3	9.82	-1.27	353	9.90	353	10.24	353	9.57	353	10.07	353	9.74
696.00	691.61	7.3	350.8	9.95	-1.29	353	10.04	353	10.37	353	9.70	353	10.21	353	9.87
697.00	692.60	7.3	350.4	10.08	-1.31	353	10.16	353	10.51	353	9.82	353	10.34	353	9.99
698.00	693.59	7.3	350.3	10.21	-1.33	353	10.29	353	10.64	353	9.94	353	10.46	353	10.12
699.00	694.59	7.4	350.9	10.33	-1.35	353	10.42	353	10.77	353	10.07	353	10.60	353	10.25
700.00	695.58	7.4	350.9	10.46	-1.37	353	10.55	353	10.90	353	10.20	353	10.73	353	10.37
701.00	696.57	7.4	351.4	10.59	-1.39	353	10.68	353	11.03	353	10.32	353	10.86	353	10.50
702.00	697.56	7.3	351.8	10.71	-1.41	353	10.81	353	11.17	353	10.44	353	10.99	353	10.62
703.00	698.55	7.4	352.1	10.84	-1.43	353	10.93	352	11.30	353	10.57	352	11.12	353	10.75
704.00	699.54	7.3	352.4	10.97	-1.44	352	11.06	352	11.43	353	10.69	352	11.25	353	10.88
705.00	700.54	7.4	353.1	11.09	-1.46	352	11.19	352	11.56	353	10.82	352	11.38	353	11.00
706.00	701.53	7.5	353.4	11.22	-1.48	353	11.32	352	11.69	353	10.94	353	11.51	353	11.13
707.00	702.52	7.5	353.6	11.35	-1.49	353	11.45	353	11.83	353	11.07	353	11.64	353	11.26
708.00	703.51	7.5	353.6	11.48	-1.51	353	11.58	353	11.96	353	11.20	353	11.77	353	11.39
709.00	704.50	7.5	354.1	11.61	-1.52	353	11.71	353	12.10	353	11.33	353	11.90	353	11.52
710.00	705.49	7.5	354.1	11.74	-1.53	353	11.84	353	12.23	353	11.45	353	12.04	353	11.65
711.00	706.48	7.6	353.8	11.87	-1.54	353	11.97	353	12.37	353	11.58	353	12.17	353	11.78
712.00	707.47	7.6	353.2	12.01	-1.55	353	12.11	353	12.50	353	11.71	353	12.30	353	11.91
713.00	708.47	7.6	353.2	12.14	-1.57	353	12.24	353	12.64	353	11.84	353	12.44	353	12.04
714.00	709.46	7.7	352.2	12.27	-1.58	353	12.37	353	12.78	353	11.97	353	12.57	353	12.17
715.00	710.45	7.7	352.1	12.41	-1.59	353	12.51	353	12.91	353	12.10	353	12.71	353	12.30
716.00	711.44	7.8	352.7	12.54	-1.60	353	12.64	353	13.05	353	12.23	353	12.85	353	12.44
717.00	712.43	7.8	352.7	12.67	-1.62	353	12.78	353	13.19	353	12.37	353	12.98	353	12.57
718.00	713.42	7.9	353.3	12.81	-1.64	353	12.92	353	13.33	353	12.50	353	13.12	353	12.71
719.00	714.41	8.0	353.3	12.95	-1.65	353	13.05	353	13.47	353	12.63	353	13.26	353	12.84
720.00	715.40	8.1	352.7	13.09	-1.67	353	13.19	353	13.62	353	12.77	353	13.41	353	12.98
721.00	716.39	8.2	353.3	13.23	-1.69	353	13.34	353	13.76	353	12.91	353	13.55	353	13.12
722.00	717.38	8.2	352.6	13.37	-1.71	353	13.48	353	13.91	353	13.05	353	13.69	353	13.26
723.00	718.37	8.2	352.8	13.51	-1.73	353	13.62	353	14.05	353	13.19	353	13.84	353	13.40
724.00	719.36	8.3	352.0	13.65	-1.74	353	13.76	353	14.20	353	13.33	353	13.98	353	13.55
725.00	720.35	8.4	352.3	13.80	-1.76	353	13.91	353	14.35	353	13.47	353	14.13	353	13.69
726.00	721.34	8.4	351.6	13.94	-1.78	353	14.06	353	14.50	353	13.61	353	14.28	353	13.83
727.00	722.33	8.6	351.3	14.09	-1.81	353	14.20	353	14.65	353	13.76	353	14.43	353	13.98
728.00	723.31	8.6	351.1	14.24	-1.83	353	14.35	353	14.80	353	13.90	353	14.58	353	14.13
729.00	724.30	8.7	350.9	14.39	-1.85	353	14.50	353	14.96	353	14.05	353	14.73	353	14.28
730.00	725.29	8.7	351.0	14.54	-1.87	353	14.66	353	15.12	353	14.20	353	14.89	353	14.43
731.00	726.28	8.7	350.2	14.69	-1.90	353	14.81	353	15.27	353	14.35	353	15.04	353	14.58
732.00	727.27	8.8	349.9	14.84	-1.92	353	14.97	353	15.43	353	14.50	353	15.20	353	14.73
733.00	728.25	8.9	349.4	14.99	-1.95	353	15.12	353	15.59	353	14.65	353	15.35	353	14.88
734.00	729.24	9.0	348.5	15.15	-1.98	353	15.28	353	15.75	353	14.81	353	15.52	353	15.05
735.00	730.23	9.0	348.3	15.31	-2.01	353	15.44	353	15.91	353	14.96	353	15.68	353	15.20
736.00	731.22	9.1	347.9	15.46	-2.04	352	15.59	352	16.07	352	15.12	352	15.83	352	15.36
737.00	732.20	9.1	346.8	15.61	-2.08	352	15.75	352	16.23	352	15.27	352	15.99	352	15.51
738.00	733.19	9.2	345.7	15.77	-2.11	352	15.91	352	16.40	352	15.43	352	16.15	352	15.67
739.00	734.18	9.2	344.3	15.92	-2.16	352	16.07	352	16.56	352	15.58	352	16.31	352	15.83
740.00	735.16	9.3	343.0	16.08	-2.20	352	16.23	352	16.72	352	15.74	352	16.47	352	15.98
741.00	736.15	9.4	342.5	16.23	-2.25	352	16.39	352	16.88	352	15.89	352	16.64	352	16.14
742.00	737.14	9.4	341.8	16.39	-2.30	352	16.55	352	17.05	352	16.05	352	16.80	352	16.30
743.00	738.12	9.4	341.8	16.54	-2.35	352	16.71	352	17.21	352	16.21	352	16.96	352	16.46

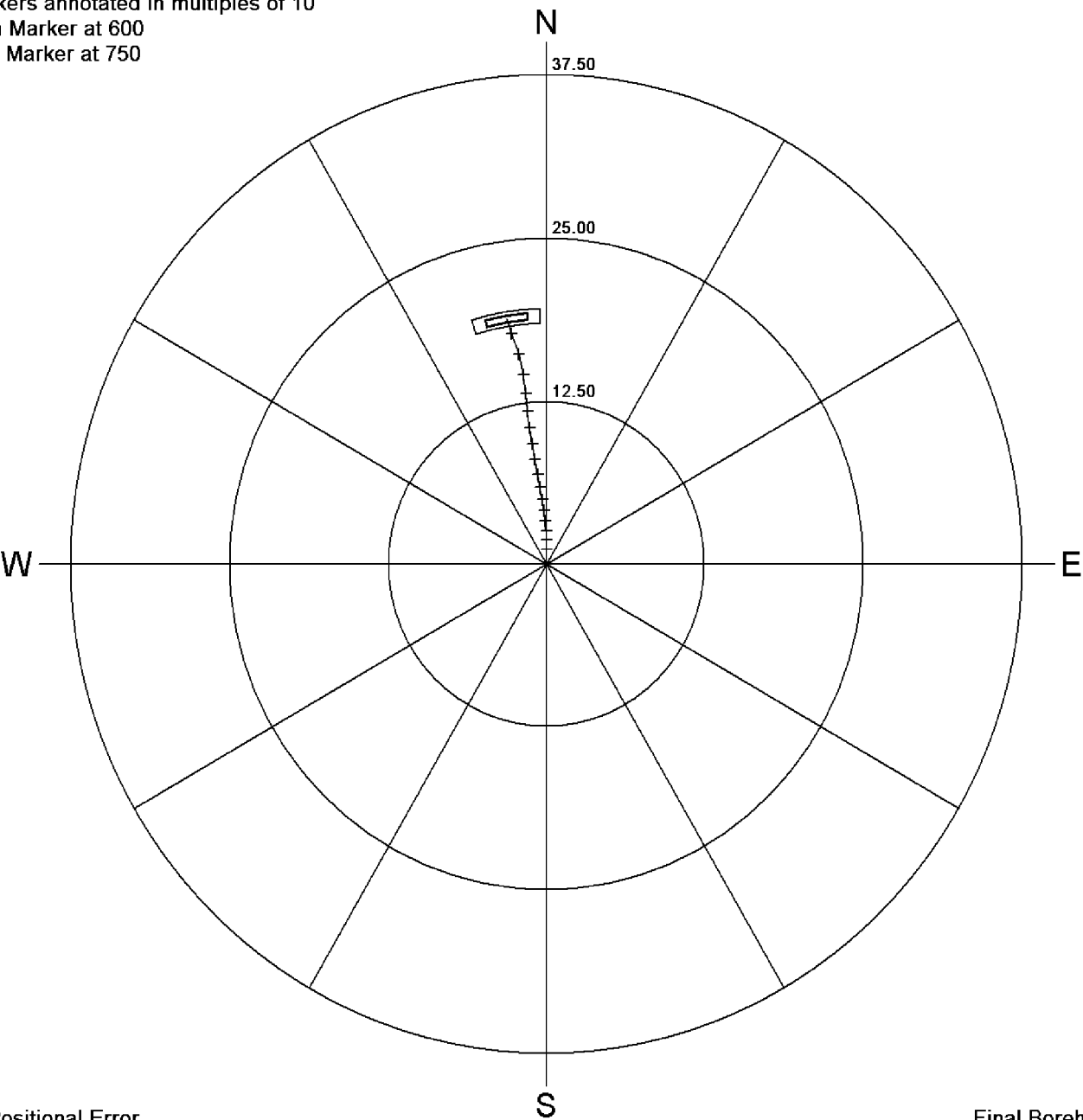
744.00	739.11	9.4	341.8	16.70	-2.41	352	16.87	352	17.38	352	16.37	352	17.12	352	16.62
745.00	740.09	9.5	341.2	16.86	-2.47	352	17.04	352	17.55	352	16.53	352	17.29	352	16.78
746.00	741.08	9.5	340.8	17.02	-2.52	352	17.20	352	17.71	352	16.69	352	17.46	352	16.94
747.00	742.07	9.6	340.8	17.17	-2.57	351	17.36	351	17.88	351	16.85	351	17.62	351	17.11
748.00	743.05	9.6	340.0	17.33	-2.63	351	17.53	351	18.05	351	17.01	351	17.79	351	17.27
749.00	744.04	9.7	340.1	17.49	-2.70	351	17.69	351	18.22	351	17.17	351	17.96	351	17.43
750.00	745.02	9.8	339.8	17.65	-2.76	351	17.86	351	18.39	351	17.33	351	18.12	351	17.60
751.00	746.01	9.8	339.8	17.81	-2.82	351	18.03	351	18.56	351	17.50	351	18.29	351	17.76
752.00	746.99	9.9	340.0	17.97	-2.88	351	18.20	351	18.73	351	17.66	351	18.46	351	17.93
753.00	747.98	10.0	340.0	18.13	-2.94	351	18.36	351	18.90	351	17.83	351	18.63	351	18.10
754.00	748.96	10.0	339.9	18.29	-3.00	351	18.53	351	19.07	351	18.00	351	18.80	351	18.27
755.00	749.95	10.0	339.4	18.45	-3.06	351	18.70	351	19.25	351	18.16	351	18.98	351	18.43
756.00	750.93	10.1	339.3	18.62	-3.12	350	18.88	350	19.42	350	18.33	350	19.15	350	18.60
757.00	751.92	10.1	338.9	18.78	-3.18	350	19.05	350	19.60	350	18.50	350	19.32	350	18.77

Cross Section

All Figures are Log Depths in metres
Plot With Respect to True North

Target Origin Depth 593.61
Last Plotted Depth 757.00
Depth Markers annotated in multiples of 10
First Depth Marker at 600
Last Depth Marker at 750

Scale 1:500
Declination 0.0 deg



Borehole Positional Error
Final Borehole Position

The two boxes surrounding the last plotted depth show the typical and maximum positional error at that depth.
The last plotted depth is at 18.78 metres North 3.18 metres West ie 19.05 metres from the origin 350 deg from True North

Vertical Sections

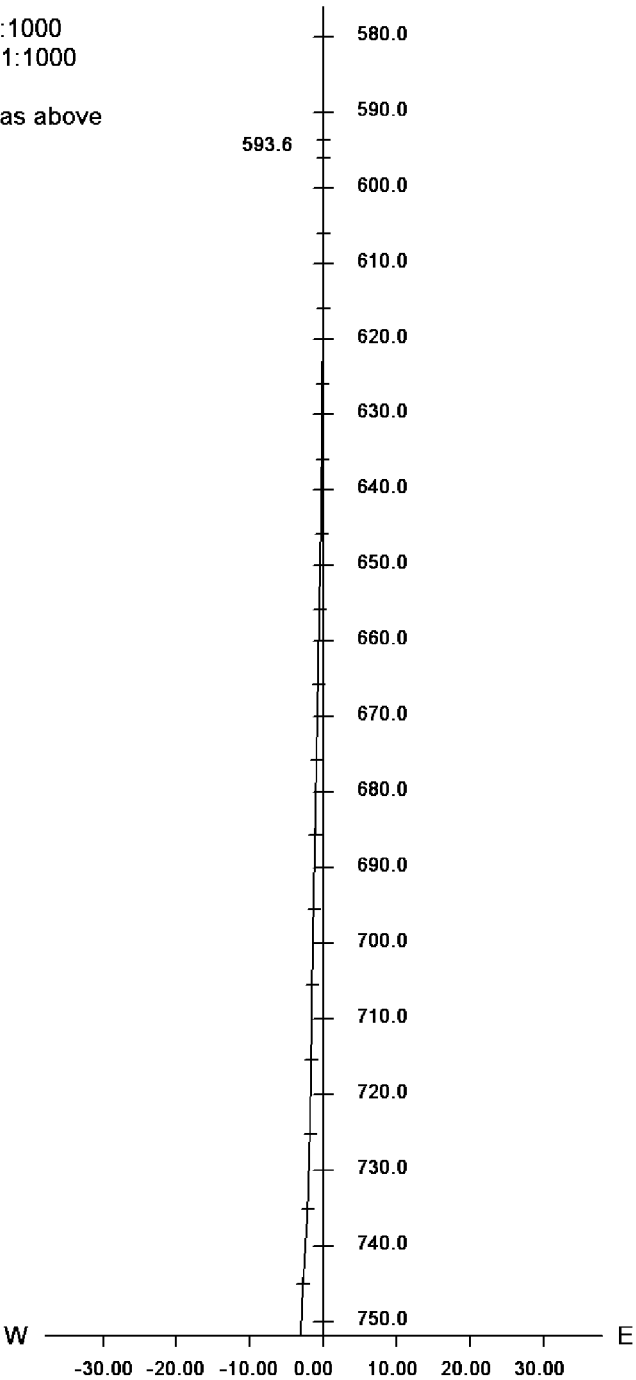
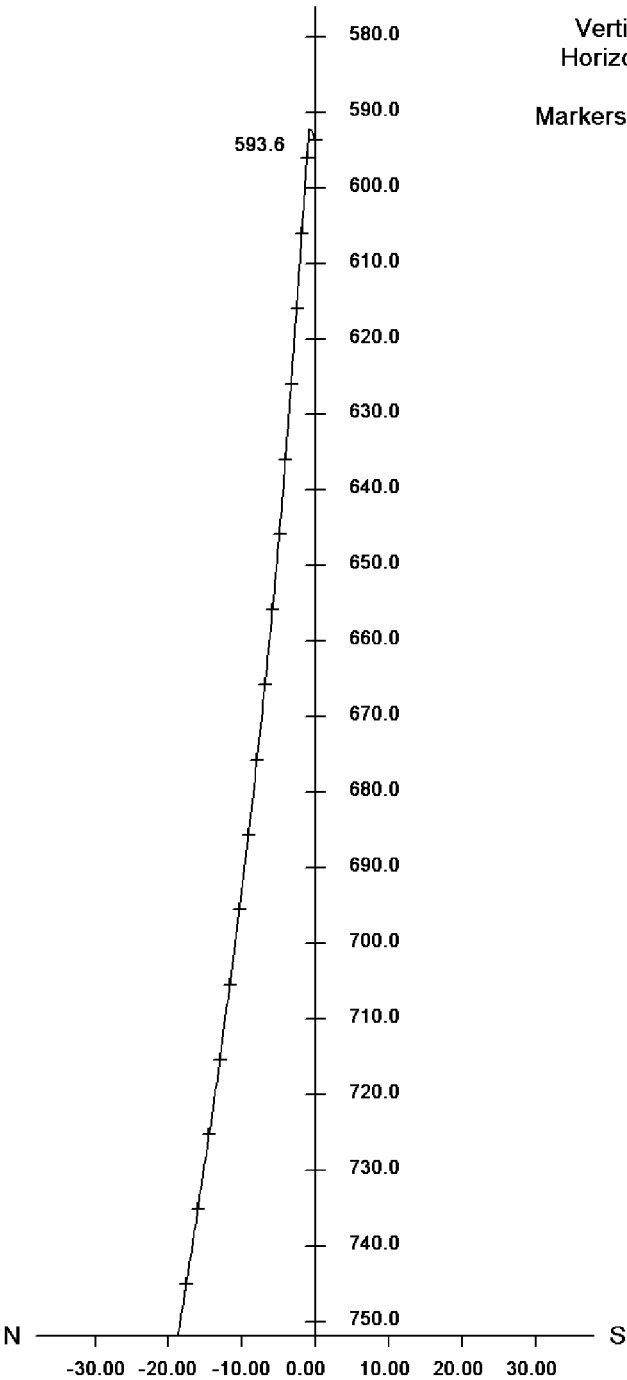
North-South Section

East-West Section

(True Depth vs Displacement)

Vertical Scale 1:1000
Horizontal Scale 1:1000

Markers annotated as above

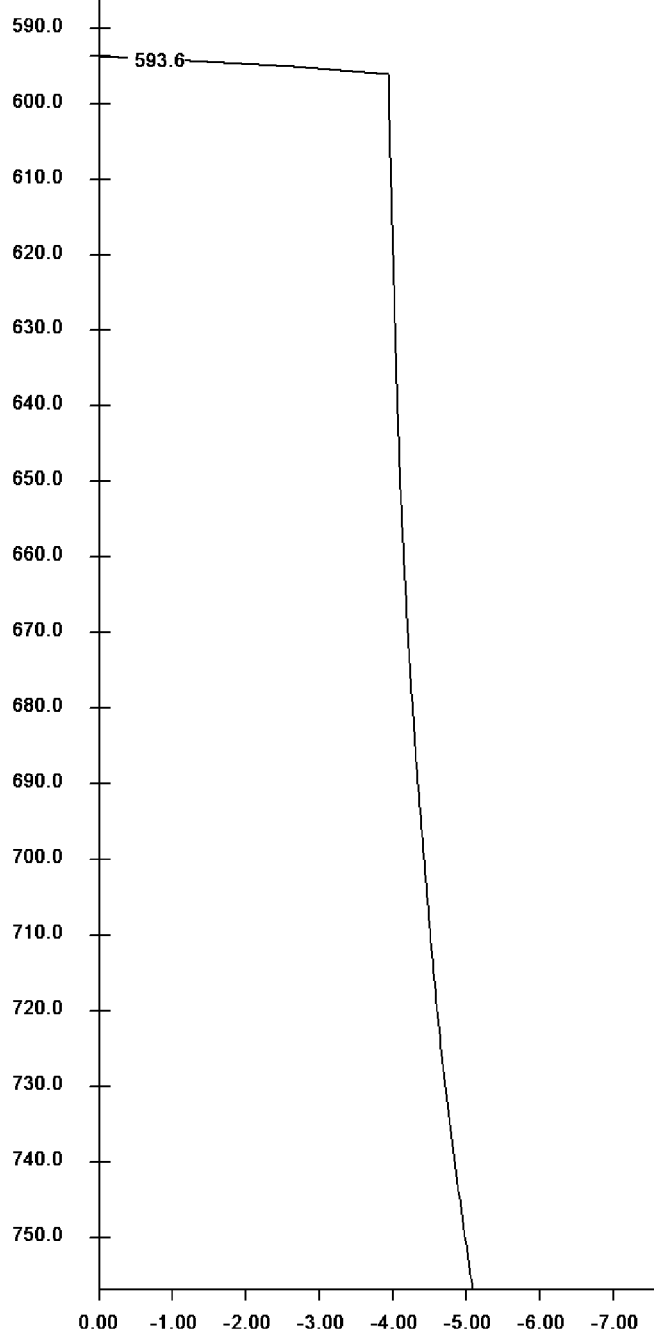


Depth Correction Analysis

Vertical Scale 1:1000
Horizontal Scale 1:100

Log
Depth

Depths		Depths		Depths	
Log	True	Log	True	Log	True
594.00	593.25	661.00	656.85	728.00	723.31
595.00	592.36	662.00	657.84	729.00	724.30
596.00	592.06	663.00	658.84	730.00	725.29
597.00	593.06	664.00	659.83	731.00	726.28
598.00	594.06	665.00	660.83	732.00	727.27
599.00	595.05	666.00	661.82	733.00	728.25
600.00	596.05	667.00	662.81	734.00	729.24
601.00	597.05	668.00	663.81	735.00	730.23
602.00	598.05	669.00	664.80	736.00	731.22



Correction For True Depth

603.00	599.04	670.00	665.80	737.00	732.20
604.00	600.04	671.00	666.79	738.00	733.19
605.00	601.04	672.00	667.79	739.00	734.18
606.00	602.04	673.00	668.78	740.00	735.16
607.00	603.03	674.00	669.77	741.00	736.15
608.00	604.03	675.00	670.77	742.00	737.14
609.00	605.03	676.00	671.76	743.00	738.12
610.00	606.03	677.00	672.75	744.00	739.11
611.00	607.02	678.00	673.75	745.00	740.09
612.00	608.02	679.00	674.74	746.00	741.08
613.00	609.02	680.00	675.73	747.00	742.07
614.00	610.01	681.00	676.73	748.00	743.05
615.00	611.01	682.00	677.72	749.00	744.04
616.00	612.01	683.00	678.71	750.00	745.02
617.00	613.01	684.00	679.71	751.00	746.01
618.00	614.00	685.00	680.70	752.00	746.99
619.00	615.00	686.00	681.69	753.00	747.98
620.00	616.00	687.00	682.68	754.00	748.96
621.00	616.99	688.00	683.68	755.00	749.95
622.00	617.99	689.00	684.67	756.00	750.93
623.00	618.99	690.00	685.66	757.00	751.92
624.00	619.99	691.00	686.65		
625.00	620.98	692.00	687.64		
626.00	621.98	693.00	688.64		
627.00	622.98	694.00	689.63		
628.00	623.97	695.00	690.62		
629.00	624.97	696.00	691.61		
630.00	625.97	697.00	692.60		
631.00	626.97	698.00	693.59		
632.00	627.96	699.00	694.59		
633.00	628.96	700.00	695.58		
634.00	629.96	701.00	696.57		
635.00	630.95	702.00	697.56		
636.00	631.95	703.00	698.55		
637.00	632.95	704.00	699.54		
638.00	633.94	705.00	700.54		
639.00	634.94	706.00	701.53		
640.00	635.94	707.00	702.52		
641.00	636.93	708.00	703.51		
642.00	637.93	709.00	704.50		
643.00	638.93	710.00	705.49		
644.00	639.92	711.00	706.48		
645.00	640.92	712.00	707.47		
646.00	641.92	713.00	708.47		
647.00	642.91	714.00	709.46		
648.00	643.91	715.00	710.45		
649.00	644.91	716.00	711.44		
650.00	645.90	717.00	712.43		
651.00	646.90	718.00	713.42		
652.00	647.89	719.00	714.41		
653.00	648.89	720.00	715.40		
654.00	649.88	721.00	716.39		
655.00	650.88	722.00	717.38		
656.00	651.87	723.00	718.37		
657.00	652.87	724.00	719.36		
658.00	653.86	725.00	720.35		
659.00	654.86	726.00	721.34		
660.00	655.85	727.00	722.33		

COMPANY LAKES OIL NL
WELL LOY YANG 2
FIELD EXPLORATION
PROVINCE/COUNTY QUEENSLAND
COUNTRY/STATE AUSTRALIA

Elevation Kelly Bushing	107.65	metres	First Reading	1440.90	metres
Elevation Drill Floor		metres	Depth Driller	1443.00	metres
Elevation Ground Level	104.00	metres	Depth Logger	1442.08	metres



BORHOLE DIRECTION
BGN
1:200



BORHOLE DIRECTION

BGN

1:200

COMPANY LAKES OIL NL

WELL LOY YANG 2

FIELD EXPLORATION

PROVINCE/COUNTY QUEENSLAND

COUNTRY/STATE AUSTRALIA

LOCATION 38° 15' 13" S, 146° 33' 31" E

LSD SEC TWP RGE Other Services

DUAL LATEROLOG

ACOUSTIC SCANNER

API Number MICRO LATEROLOG

Permit Number PEP 166 COMPENSATED SONIC

Permanent Datum M.S.L. , Elevation metres

Log Measured From R.T@ 107.65 above Permanent Datum

Drilling Measured From R.T

Elevations:
KB 107.65 metres
DF metres
GL 104.00 metres

Date 17-MAR-2006

Run Number TWO

Depth Driller 1443.00 metres

Depth Logger 1442.08 metres

First Reading 1440.90 metres

Last Reading 0.00 metres

Casing Driller 215.00 metres

Casing Logger 216.00 metres

Bit Size 6.13 inches

Hole Fluid Type KCL POLYMER

Density / Viscosity 1.04 g/cc

PH / Fluid Loss

Sample Source FLOWLINE

Rm @ Measured Temp 0.762 @ 25.0 ohm-m

Rmf @ Measured Temp 0.711 @ 25.0 ohm-m

Rmc @ Measured Temp 0.813 @ 25.0 ohm-m

Source Rmf / Rmc PIT PRESS

Rm @ BHT 0.363 @ 75.0 ohm-m

Time Since Circulation 7HRS

Max Recorded Temp 75.00 deg C

Equipment Name OILFIELD

Equipment / Base 8 SALE

Recorded By TIM HANSEN

Witnessed By TIM O'BRIEN, BEN EDWARDS

Circ. Stop 17:18/16-MAR

Last Line

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

Verticality Analysis Interpretation Notes

25-APR-2006 13:32

All plotted output is automatically scaled to obtain the best visual effect within the physical space available. The maximum scales being 1:50000(metric) and 1:48000(imperial), and the minimum 1:1.

The analysis is derived by integrating 10cm sampled data down the borehole. The listing supplied will contain a maximum of 200 points in multiples of 1, 2, 5, 10, 20, 50 or 100 metres/feet depending on the total range of the analysis. However, the analysis is calculated for the entire range of the borehole and the final borehole position is included in the listing.

Computed verticality may only be fully derived in open sections of the borehole, away from the influence of any unusual magnetic effects, (as the azimuth calculations are derived from three solid state magnetometers). So the analysis will generally begin at the end of the casing and all borehole positional information will relate to this depth.

Up to ten cross sections may be requested for any borehole to be displayed at any scale, (the default scale is that of the cross-section for the entire hole).

Borehole positional error is derived assuming the following parameters.

	TILT (degrees)	AZIMUTH (degrees)
Typical Error	+/- 0.1000	+/- 5.0000
Maximum Error	+/- 0.2000	+/- 8.0000

Error analysis may be calculated and plotted from the data listing as follows:

- Plot the four coordinates from the error listing (based upon zero azimuth error) on a target plot. Origin at the start of the analysis.
- Describe arcs of +/- 10.00 degrees and +/- 15.00 degrees (centre at the origin) through the inner and outer points respectively.
- Connect the respective arcs together with straight lines to give the typical and maximum borehole positional error.

Given below is a full description of the parameters displayed on the ensuing listing:

LOG DEPTH	The depth recorded on the field logs for the borehole.
TRUE DEPTH	The true vertical depth corresponding to the above depth. Corrected from the start of the analysis.
HOLE TILT AND AZIMUTH	The sampled borehole orientation.
AXIAL COORDINATES	The coordinates North and East from the target origin.
POLAR COORDINATES	The polar or radial coordinates of the borehole.
ERROR COORDINATES	The polar coordinates corresponding to the typical and maximum tilt error.

N.B. The reference point for all bearing angles on this listing is given at the top of each sheet.

Verticality Data Listing

C:\Data\Scanner\CDR\Depth\12.dta

All Co-ordinates With Respect To True North, all depths in metres

Date Processed: 25-APR-2006

First Depth 753.88, 0.00 North, 0.00 East of Origin

Date Logged: 17 MAR 2006

DEPTHS		BOREHOLE		AXIAL CO-ORDS		POLAR		POLAR ERROR CO-ORDINATES (MAXIMUM & TYPICAL)							
Log	True	Tilt	Azi	North	East	Brg	Radius	Brg	Radius	Brg	Radius	Brg	Radius	Brg	Radius
754.00	754.00	10.4	341.9	0.02	-0.01	333	0.02	333	0.02	333	0.02	333	0.02	333	0.02
755.00	754.98	10.3	342.2	0.18	-0.07	338	0.20	338	0.20	338	0.19	338	0.20	338	0.19
756.00	755.96	10.4	341.6	0.35	-0.13	340	0.38	340	0.38	340	0.37	340	0.38	340	0.37
757.00	756.95	10.4	341.0	0.52	-0.19	340	0.56	340	0.57	340	0.55	340	0.56	340	0.55
758.00	757.93	10.4	341.2	0.69	-0.25	340	0.74	340	0.75	340	0.72	340	0.74	340	0.73
759.00	758.92	10.4	341.0	0.87	-0.31	341	0.92	341	0.94	341	0.90	341	0.93	341	0.91
760.00	759.90	10.4	341.1	1.04	-0.36	341	1.10	341	1.12	341	1.08	341	1.11	341	1.09
761.00	760.88	10.5	341.3	1.21	-0.42	341	1.28	341	1.31	341	1.26	341	1.29	341	1.27
762.00	761.87	10.5	341.3	1.38	-0.48	341	1.46	341	1.49	341	1.44	341	1.48	341	1.45
763.00	762.85	10.6	341.4	1.55	-0.54	341	1.64	341	1.68	341	1.61	341	1.66	341	1.63
764.00	763.83	10.6	341.0	1.72	-0.60	341	1.83	341	1.86	341	1.79	341	1.84	341	1.81
765.00	764.81	10.6	341.0	1.90	-0.66	341	2.01	341	2.05	341	1.97	341	2.03	341	1.99
766.00	765.80	10.6	340.5	2.07	-0.73	341	2.19	341	2.24	341	2.15	341	2.22	341	2.17
767.00	766.78	10.7	340.5	2.24	-0.79	341	2.38	341	2.42	341	2.33	341	2.40	341	2.36
768.00	767.76	10.6	340.4	2.42	-0.85	341	2.56	341	2.61	341	2.51	341	2.59	341	2.54
769.00	768.74	10.7	340.6	2.59	-0.92	340	2.75	340	2.80	340	2.69	340	2.77	340	2.72
770.00	769.73	10.7	340.4	2.76	-0.98	340	2.93	340	2.99	340	2.88	340	2.96	340	2.90
771.00	770.71	10.8	340.5	2.94	-1.05	340	3.12	340	3.18	340	3.06	340	3.15	340	3.09
772.00	771.69	10.8	340.4	3.11	-1.11	340	3.30	340	3.37	340	3.24	340	3.34	340	3.27
773.00	772.67	10.8	340.2	3.29	-1.17	340	3.49	340	3.56	340	3.43	340	3.52	340	3.46
774.00	773.66	10.9	340.4	3.47	-1.24	340	3.68	340	3.75	340	3.61	340	3.71	340	3.65
775.00	774.64	11.0	340.3	3.65	-1.30	340	3.87	340	3.94	340	3.80	340	3.91	340	3.83
776.00	775.62	11.0	340.0	3.82	-1.36	340	4.06	340	4.14	340	3.98	340	4.10	340	4.02
777.00	776.60	11.1	339.9	4.00	-1.43	340	4.25	340	4.33	340	4.17	340	4.29	340	4.21
778.00	777.58	11.1	339.8	4.18	-1.49	340	4.44	340	4.53	340	4.36	340	4.48	340	4.40
779.00	778.56	11.1	339.6	4.37	-1.56	340	4.64	340	4.72	340	4.55	340	4.68	340	4.59
780.00	779.54	11.2	339.4	4.54	-1.64	340	4.83	340	4.92	340	4.74	340	4.87	340	4.78
781.00	780.52	11.3	339.3	4.72	-1.71	340	5.02	340	5.11	340	4.93	340	5.07	340	4.98
782.00	781.51	11.4	339.2	4.90	-1.78	340	5.22	340	5.31	340	5.12	340	5.27	340	5.17
783.00	782.49	11.4	338.9	5.09	-1.85	340	5.42	340	5.52	340	5.32	340	5.47	340	5.37
784.00	783.47	11.5	339.1	5.27	-1.93	340	5.61	340	5.72	340	5.51	340	5.67	340	5.56
785.00	784.44	11.6	338.7	5.45	-2.01	340	5.81	340	5.92	340	5.71	340	5.87	340	5.76

786.00	785.42	11.6	338.3	5.64	-2.08	340	6.01	340	6.12	340	5.90	340	6.07	340	5.96
787.00	786.40	11.6	338.0	5.83	-2.16	340	6.22	340	6.33	340	6.10	340	6.27	340	6.16
788.00	787.38	11.8	337.4	6.02	-2.24	340	6.42	340	6.53	340	6.30	340	6.48	340	6.36
789.00	788.36	11.8	337.4	6.20	-2.31	340	6.62	340	6.74	340	6.50	340	6.68	340	6.56
790.00	789.34	11.8	337.4	6.39	-2.39	339	6.83	339	6.95	339	6.70	339	6.89	339	6.76
791.00	790.32	11.9	337.4	6.58	-2.47	339	7.03	339	7.16	339	6.90	339	7.09	339	6.97
792.00	791.30	11.9	337.3	6.77	-2.55	339	7.24	339	7.37	339	7.11	339	7.30	339	7.17
793.00	792.28	12.0	337.2	6.96	-2.63	339	7.45	339	7.58	339	7.31	339	7.51	339	7.38
794.00	793.25	12.1	337.1	7.16	-2.71	339	7.65	339	7.79	339	7.52	339	7.72	339	7.59
795.00	794.23	12.2	336.9	7.35	-2.79	339	7.86	339	8.00	339	7.72	339	7.93	339	7.79
796.00	795.21	12.2	337.0	7.54	-2.88	339	8.07	339	8.22	339	7.93	339	8.15	339	8.00
797.00	796.19	12.3	336.9	7.74	-2.96	339	8.28	339	8.43	339	8.14	339	8.36	339	8.21
798.00	797.16	12.3	336.8	7.93	-3.04	339	8.50	339	8.65	339	8.35	339	8.57	339	8.42
799.00	798.14	12.5	337.1	8.13	-3.13	339	8.71	339	8.87	339	8.56	339	8.79	339	8.63
800.00	799.12	12.5	337.5	8.33	-3.21	339	8.93	339	9.08	339	8.77	339	9.01	339	8.85
801.00	800.09	12.6	337.5	8.53	-3.29	339	9.14	339	9.31	339	8.98	339	9.22	339	9.06
802.00	801.07	12.7	337.4	8.73	-3.38	339	9.36	339	9.53	339	9.20	339	9.45	339	9.28
803.00	802.04	12.7	337.7	8.94	-3.46	339	9.58	339	9.75	339	9.42	339	9.67	339	9.50
804.00	803.02	12.8	337.6	9.14	-3.55	339	9.80	339	9.97	339	9.63	339	9.89	339	9.72
805.00	803.99	12.8	337.9	9.34	-3.63	339	10.03	339	10.20	339	9.85	339	10.11	339	9.94
806.00	804.97	12.8	337.8	9.55	-3.72	339	10.25	339	10.42	339	10.07	339	10.34	339	10.16
807.00	805.94	12.9	337.5	9.75	-3.81	339	10.47	339	10.65	339	10.29	339	10.56	339	10.38
808.00	806.92	13.0	337.4	9.96	-3.89	339	10.69	339	10.88	339	10.51	339	10.79	339	10.60
809.00	807.89	13.1	337.7	10.17	-3.98	339	10.92	339	11.11	339	10.73	339	11.01	339	10.83
810.00	808.86	13.2	337.9	10.38	-4.07	339	11.15	339	11.34	339	10.96	339	11.24	339	11.05
811.00	809.84	13.3	337.8	10.59	-4.16	339	11.38	339	11.57	339	11.18	339	11.47	339	11.28
812.00	810.81	13.4	337.8	10.80	-4.24	339	11.61	339	11.81	339	11.41	339	11.71	339	11.51
813.00	811.78	13.5	337.9	11.02	-4.33	339	11.84	339	12.04	339	11.64	339	11.94	339	11.74
814.00	812.76	13.5	337.9	11.24	-4.42	339	12.07	339	12.28	339	11.87	339	12.18	339	11.97
815.00	813.73	13.6	337.9	11.45	-4.51	339	12.31	339	12.52	339	12.10	339	12.41	339	12.20
816.00	814.70	13.7	338.3	11.67	-4.59	339	12.54	339	12.76	339	12.33	339	12.65	339	12.44
817.00	815.67	13.7	338.4	11.89	-4.68	339	12.78	339	13.00	339	12.57	339	12.89	339	12.67
818.00	816.64	13.8	338.6	12.11	-4.77	339	13.02	339	13.24	339	12.80	339	13.13	339	12.91
819.00	817.61	13.9	338.7	12.33	-4.87	338	13.26	338	13.48	338	13.04	338	13.37	338	13.15
820.00	818.58	14.1	339.0	12.56	-4.95	338	13.50	338	13.73	338	13.28	338	13.61	338	13.39
821.00	819.55	14.2	339.1	12.79	-5.04	338	13.75	338	13.97	338	13.52	338	13.86	338	13.63
822.00	820.52	14.3	338.7	13.02	-5.13	338	13.99	338	14.22	338	13.76	338	14.11	338	13.87
822.20	820.52	14.3	338.7	13.06	-5.15	338	14.04	338	14.27	338	13.81	338	14.16	338	13.92

Cross Section

All Figures are Log Depths in metres

Plot With Respect to True North

Target Origin Depth 753.88

Scale 1:200

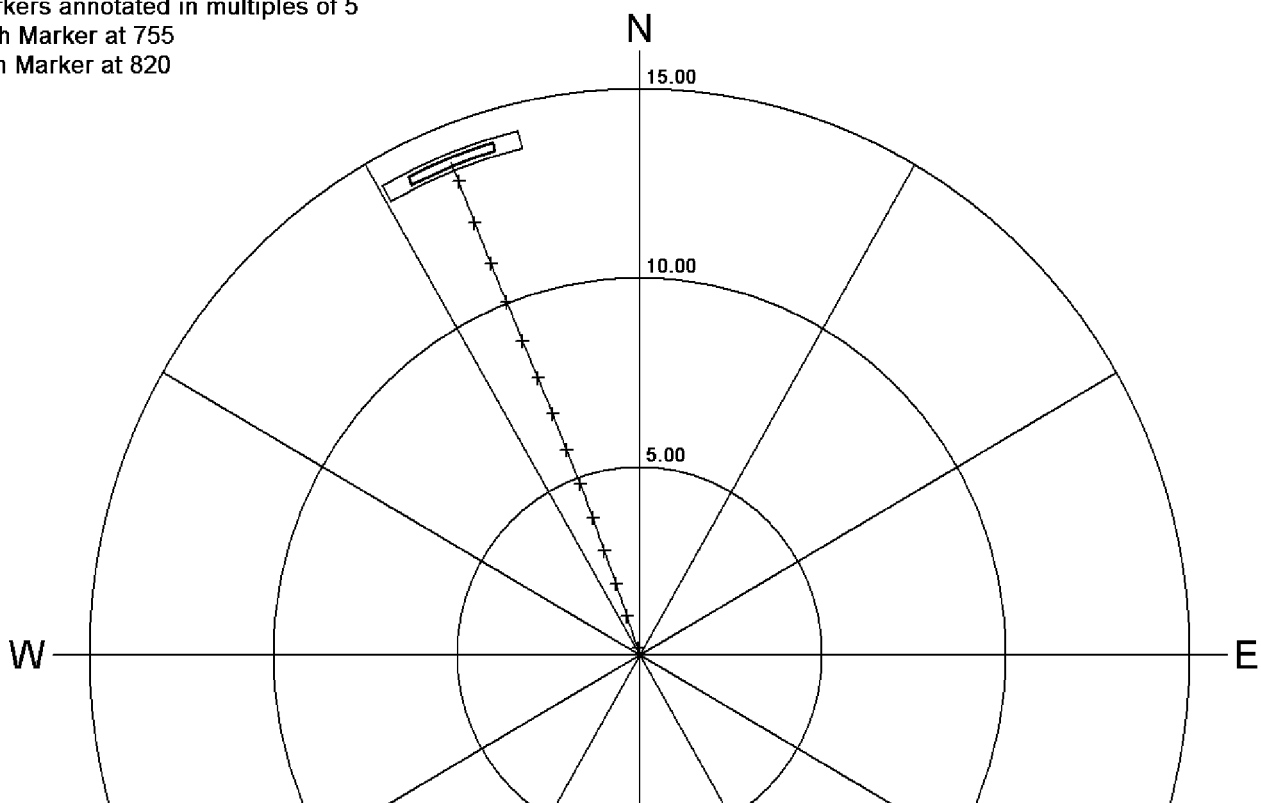
Last Plotted Depth 822.20

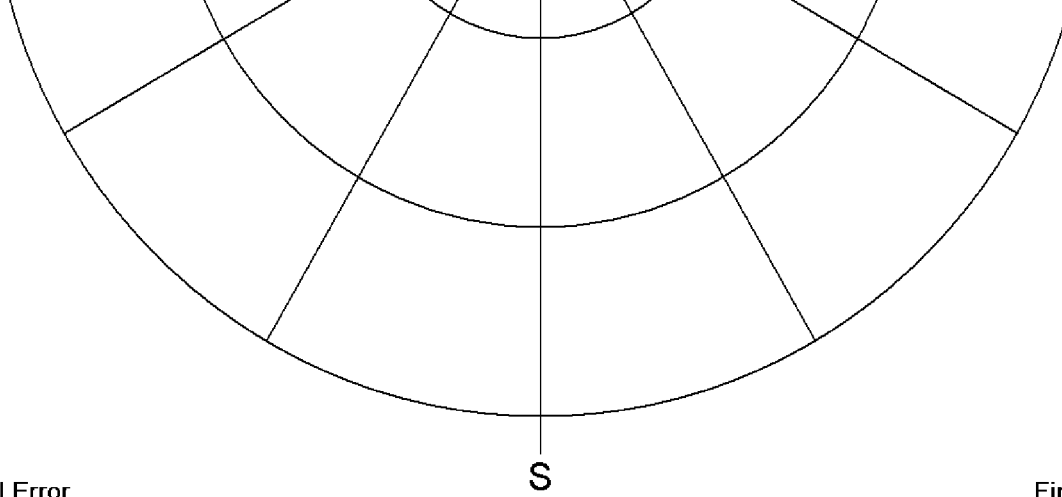
Declination 0.0 deg

Depth Markers annotated in multiples of 5

First Depth Marker at 755

Last Depth Marker at 820





Borehole Positional Error

The two boxes surrounding the last plotted depth show the typical and maximum positional error at that depth.

Final Borehole Position

The last plotted depth is at
13.06 metres North
5.15 metres West
ie 14.04 metres from the origin
338 deg from True North

Vertical Sections

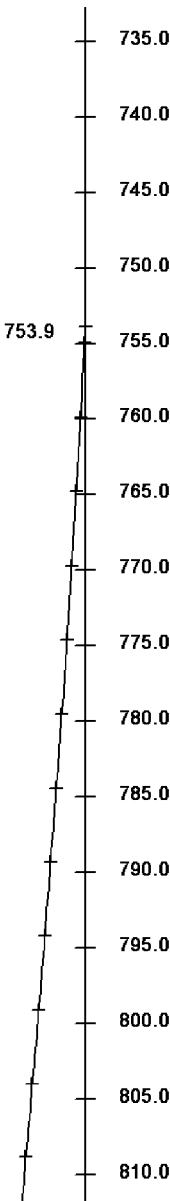
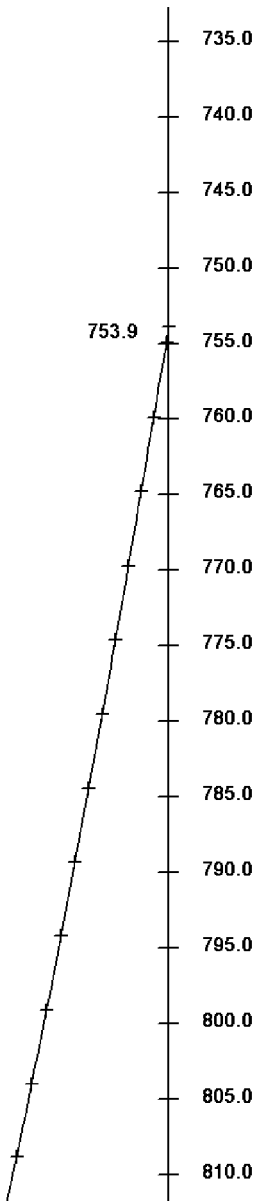
North-South Section

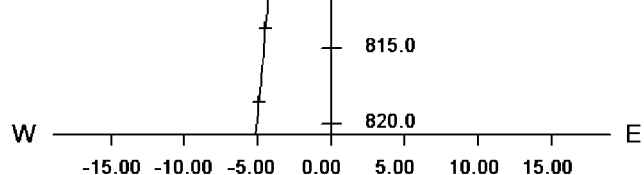
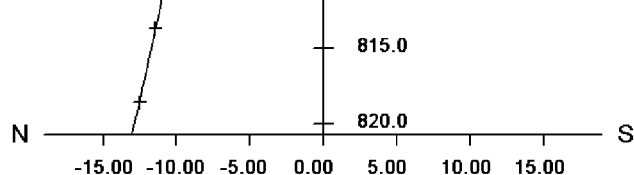
East-West Section

(True Depth vs Displacement)

Vertical Scale 1:500
Horizontal Scale 1:500

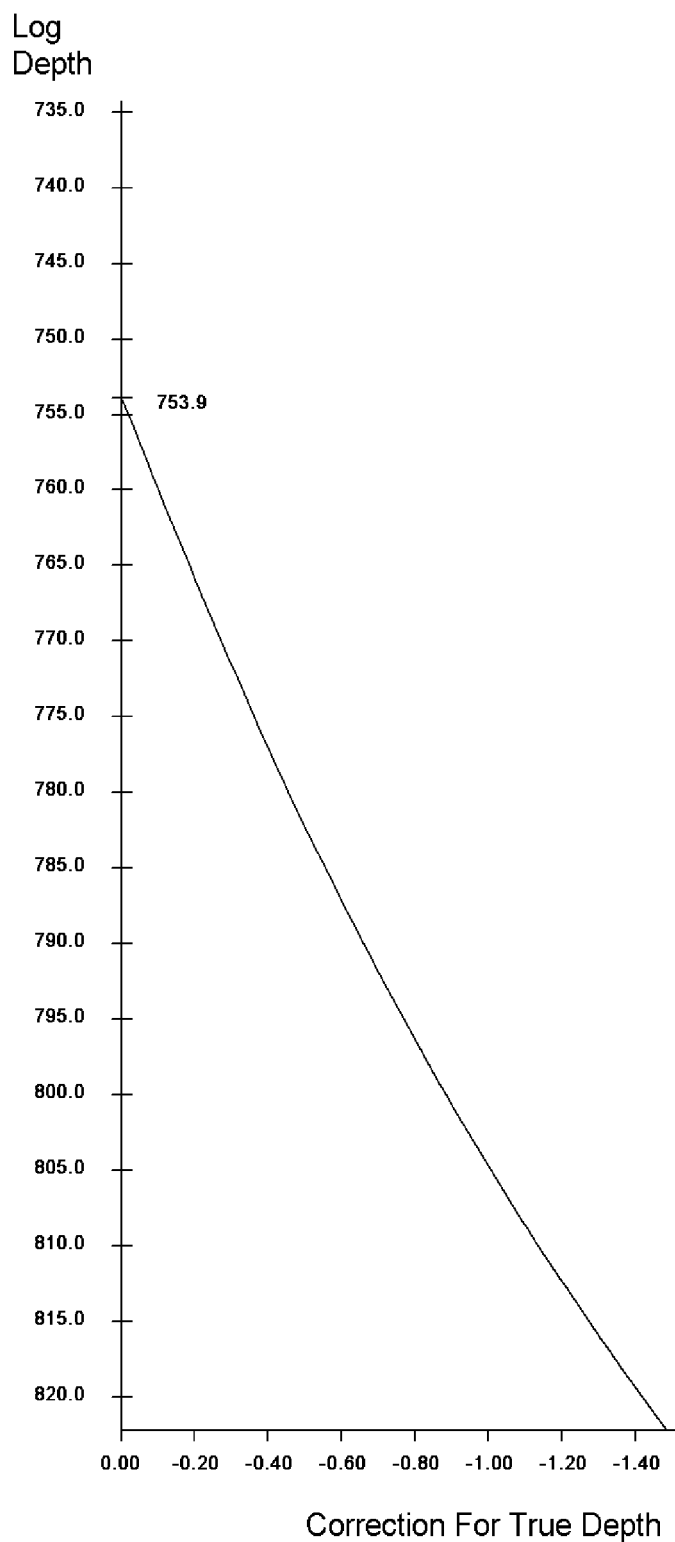
Markers annotated as above







Depth Correction Analysis

Vertical Scale 1:500
Horizontal Scale 1:20



Depths		Depths	
Log	True	Log	True
754.00	754.00	821.00	819.55
755.00	754.98	822.00	820.52
756.00	755.96	822.20	820.72
757.00	756.95		
758.00	757.93		
759.00	758.92		
760.00	759.90		
761.00	760.88		
762.00	761.87		
763.00	762.85		
764.00	763.83		
765.00	764.81		
766.00	765.80		
767.00	766.78		
768.00	767.76		
769.00	768.74		
770.00	769.73		
771.00	770.71		
772.00	771.69		
773.00	772.67		
774.00	773.66		
775.00	774.64		
776.00	775.62		
777.00	776.60		
778.00	777.58		
779.00	778.56		
780.00	779.54		
781.00	780.52		
782.00	781.51		
783.00	782.49		
784.00	783.47		
785.00	784.44		
786.00	785.42		
787.00	786.40		
788.00	787.38		
789.00	788.36		
790.00	789.34		
791.00	790.32		
792.00	791.30		
793.00	792.28		
794.00	793.25		
795.00	794.23		
796.00	795.21		
797.00	796.19		
798.00	797.16		
799.00	798.14		
800.00	799.12		
801.00	800.09		
802.00	801.07		
803.00	802.04		
804.00	803.02		
805.00	803.99		
806.00	804.97		
807.00	805.94		
808.00	806.92		
809.00	807.89		
810.00	808.86		
811.00	809.84		
812.00	810.81		
813.00	811.78		
814.00	812.76		
815.00	813.73		
816.00	814.70		
817.00	815.67		
818.00	816.64		
819.00	817.61		
820.00	818.58		

COMPANY		LAKES OIL NL			
WELL		LOY YANG 2			
FIELD		EXPLORATION			
PROVINCE/COUNTY		QUEENSLAND			
COUNTRY/STATE		AUSTRALIA			
Elevation Kelly Bushing	107.65	metres	First Reading	1440.90	metres
Elevation Drill Floor		metres	Depth Driller	1443.00	metres
Elevation Ground Level	104.00	metres	Depth Logger	1442.08	metres
<div>BORHOLE DIRECTION</div> <div>BGN</div> <div>1:200</div>					

<div>BORHOLE DIRECTION</div> <div>BGN</div> <div>1:200</div>					
COMPANY LAKES OIL NL					
WELL LOY YANG 2					
FIELD EXPLORATION					
PROVINCE/COUNTY QUEENSLAND					
COUNTRY/STATE AUSTRALIA					
LOCATION 38° 15' 13" S, 146° 33' 31" E					
LSD	SEC	TWP	RGE	Other Services	
				DUAL LATEROLOG	
				MICRO LATEROLOG	
				ACOUSTIC SCANNER	
API Number				COMPENSATED SONIC	
Permit Number PEP 166					
Permanent Datum M.S.L., Elevation metres					
Log Measured From R.T @ 107.65 above Permanent Datum					
Drilling Measured From R.T					
Date	17-MAR-2006				
Run Number	TWO				
Depth Driller	1443.00	metres			
Depth Logger	1442.08	metres			
First Reading	1440.90	metres			
Last Reading	0.00	metres			
Casing Driller	215.00	metres			
Casing Logger	216.00	metres			
Bit Size	6.13	inches			
Hole Fluid Type	KCL POLYMER				
Density / Viscosity	1.04 g/cc				
PH / Fluid Loss					
Sample Source	FLOWLINE				
Rm @ Measured Temp	0.762 @ 25.0	ohm-m			
Rmf @ Measured Temp	0.711 @ 25.0	ohm-m			
Rmc @ Measured Temp	0.813 @ 25.0	ohm-m			
Source Rmf / Rmc	PIT	PRESS			
Rm @ BHT	0.363 @ 75.0	ohm-m			
Time Since Circulation	7HRS				
Max Recorded Temp	75.00	deg C			
Equipment Name	OILFIELD				
Equipment / Base	8	SALE			
Recorded By	TIM HANSEN				
Witnessed By	TIM O'BRIEN, BEN EDWARDS				
Circ. Stop	17:18/16-MAR				
					Last Line

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or

Verticality Analysis Interpretation Notes

25-APR-2006 13:29

All plotted output is automatically scaled to obtain the best visual effect within the physical space available. The maximum scales being 1:50000(metric) and 1:48000(imperial), and the minimum 1:1.

The analysis is derived by integrating 10cm sampled data down the borehole. The listing supplied will contain a maximum of 200 points in multiples of 1, 2, 5, 10, 20, 50 or 100 metres/feet depending on the total range of the analysis. However, the analysis is calculated for the entire range of the borehole and the final borehole position is included in the listing.

Computed verticality may only be fully derived in open sections of the borehole, away from the influence of any unusual magnetic effects, (as the azimuth calculations are derived from three solid state magnetometers). So the analysis will generally begin at the end of the casing and all borehole positional information will relate to this depth.

Up to ten cross sections may be requested for any borehole to be displayed at any scale, (the default scale is that of the cross-section for the entire hole).

Borehole positional error is derived assuming the following parameters.

	TILT (degrees)	AZIMUTH (degrees)
Typical Error	+/- 0.1000	+/- 5.0000
Maximum Error	+/- 0.2000	+/- 8.0000

Error analysis may be calculated and plotted from the data listing as follows:

- Plot the four coordinates from the error listing (based upon zero azimuth error) on a target plot. Origin at the start of the analysis.
- Describe arcs of +/- 10.00 degrees and +/- 15.00 degrees (centre at the origin) through the inner and outer points respectively.
- Connect the respective arcs together with straight lines to give the typical and maximum borehole positional error.

Given below is a full description of the parameters displayed on the ensuing listing:

LOG DEPTH	The depth recorded on the field logs for the borehole.
TRUE DEPTH	The true vertical depth corresponding to the above depth. Corrected from the start of the analysis.
HOLE TILT AND AZIMUTH	The sampled borehole orientation.
AXIAL COORDINATES	The coordinates North and East from the target origin.
POLAR COORDINATES	The polar or radial coordinates of the borehole.
ERROR COORDINATES	The polar coordinates corresponding to the typical and maximum tilt error.

N.B. The reference point for all bearing angles on this listing is given at the top of each sheet.

Verticality Data Listing

C:\Data\Scanner\CDR\Depth\10.dta

All Co-ordinates With Respect To True North, all depths in metres

Date Processed: 25-APR-2006

First Depth 804.16, 0.00 North, 0.00 East of Origin

Date Logged: 17 MAR 2006

DEPTHS		BOREHOLE		AXIAL CO-ORDS		POLAR		POLAR ERROR CO-ORDINATES (MAXIMUM & TYPICAL)							
Log	True	Tilt	Azi	North	East	Brg	Radius	Brg	Radius	Brg	Radius	Brg	Radius	Brg	Radius
809.00	808.87	13.1	345.0	1.06	-0.27	346	1.09	346	1.11	346	1.07	346	1.10	346	1.08
814.00	813.74	13.5	345.5	2.17	-0.57	345	2.24	345	2.27	345	2.21	345	2.26	345	2.22
819.00	818.60	13.9	345.9	3.32	-0.85	346	3.43	346	3.48	346	3.38	346	3.45	346	3.40
824.00	823.44	14.4	346.0	4.51	-1.15	346	4.65	346	4.72	346	4.59	346	4.69	346	4.62
829.00	828.28	14.9	346.1	5.74	-1.45	346	5.92	346	6.00	346	5.83	346	5.96	346	5.87
834.00	833.11	15.3	345.4	7.00	-1.76	346	7.22	346	7.32	346	7.12	346	7.27	346	7.17
839.00	837.92	15.6	345.3	8.30	-2.09	346	8.56	346	8.68	346	8.45	346	8.62	346	8.51

844.00	842.73	15.8	345.4	9.62	-2.44	346	9.92	346	10.06	346	9.79	346	9.99	346	9.85
849.00	847.54	16.0	344.9	10.94	-2.79	346	11.29	346	11.44	346	11.14	346	11.37	346	11.21
854.00	852.35	16.0	343.8	12.27	-3.16	346	12.67	346	12.84	346	12.50	346	12.76	346	12.59
859.00	857.15	16.3	343.7	13.61	-3.55	345	14.07	345	14.25	345	13.88	345	14.16	345	13.97
864.00	861.94	16.8	344.4	14.98	-3.94	345	15.49	345	15.70	345	15.29	345	15.60	345	15.39
869.00	866.73	16.6	345.1	16.38	-4.31	345	16.93	345	17.15	345	16.72	345	17.04	345	16.83
874.00	871.51	16.7	345.0	17.78	-4.67	345	18.38	345	18.62	345	18.15	345	18.50	345	18.27
879.00	876.30	16.7	344.3	19.16	-5.05	345	19.82	345	20.07	345	19.57	345	19.95	345	19.69
884.00	881.09	16.5	345.0	20.55	-5.42	345	21.26	345	21.53	345	20.99	345	21.39	345	21.12
889.00	885.88	16.4	344.1	21.92	-5.79	345	22.67	345	22.96	345	22.39	345	22.81	345	22.53
894.00	890.68	16.2	345.2	23.27	-6.17	345	24.07	345	24.38	345	23.77	345	24.22	345	23.92
899.00	895.49	16.0	344.1	24.61	-6.53	345	25.46	345	25.78	345	25.15	345	25.62	345	25.30
904.00	900.29	15.8	344.3	25.94	-6.90	345	26.84	345	27.18	345	26.50	345	27.01	345	26.67
909.00	905.11	15.6	344.9	27.24	-7.26	345	28.19	345	28.54	345	27.84	345	28.37	345	28.02
914.00	909.92	15.5	344.5	28.55	-7.61	345	29.54	345	29.91	345	29.17	345	29.73	345	29.36
919.00	914.74	15.5	345.1	29.84	-7.95	345	30.88	345	31.26	345	30.49	345	31.07	345	30.68
924.00	919.56	15.3	345.1	31.12	-8.29	345	32.21	345	32.61	345	31.80	345	32.41	345	32.01
929.00	924.37	15.5	344.4	32.41	-8.63	345	33.54	345	33.96	345	33.12	345	33.75	345	33.33
934.00	929.18	15.9	345.5	33.73	-8.99	345	34.91	345	35.35	345	34.47	345	35.13	345	34.69
939.00	933.99	15.8	345.3	35.08	-9.32	345	36.29	345	36.75	345	35.84	345	36.52	345	36.07
944.00	938.80	15.7	344.2	36.39	-9.67	345	37.66	345	38.12	345	37.19	345	37.89	345	37.42
949.00	943.61	15.8	343.7	37.70	-10.03	345	39.01	345	39.50	345	38.53	345	39.26	345	38.77
954.00	948.42	15.7	345.1	39.02	-10.40	345	40.38	345	40.88	345	39.88	345	40.63	345	40.13
959.00	953.23	15.5	343.8	40.31	-10.76	345	41.72	345	42.24	345	41.20	345	41.98	345	41.46
964.00	958.04	16.2	342.1	41.62	-11.15	345	43.09	345	43.63	345	42.55	345	43.36	345	42.82
969.00	962.84	16.2	342.1	42.95	-11.59	345	44.48	345	45.04	345	43.93	345	44.76	345	44.21
974.00	967.64	16.8	343.0	44.30	-12.03	345	45.91	345	46.48	345	45.33	345	46.19	345	45.62
979.00	972.42	16.5	343.4	45.68	-12.43	345	47.34	345	47.93	345	46.76	345	47.64	345	47.05
984.00	977.22	16.3	342.1	47.03	-12.85	345	48.75	345	49.35	345	48.15	345	49.05	345	48.45
989.00	982.02	16.1	343.0	48.36	-13.26	345	50.15	345	50.77	345	49.52	345	50.46	345	49.83
994.00	986.82	16.1	341.9	49.69	-13.68	345	51.54	345	52.17	345	50.90	345	51.85	345	51.22
999.00	991.62	16.1	340.8	51.01	-14.13	345	52.94	345	53.59	345	52.28	345	53.26	345	52.61
1004.00	996.43	16.0	338.9	52.32	-14.60	344	54.32	344	54.99	344	53.64	344	54.65	344	53.98
1009.00	1001.23	16.5	338.9	53.62	-15.11	344	55.71	344	56.39	344	55.02	344	56.05	344	55.36
1014.00	1006.02	16.5	338.4	54.95	-15.63	344	57.13	344	57.83	344	56.42	344	57.48	344	56.77
1019.00	1010.81	16.4	338.8	56.27	-16.15	344	58.54	344	59.26	344	57.82	344	58.90	344	58.18
1024.00	1015.61	16.6	337.2	57.58	-16.68	344	59.95	344	60.68	344	59.21	344	60.32	344	59.58
1029.00	1020.39	16.9	337.5	58.91	-17.24	344	61.38	344	62.14	344	60.63	344	61.76	344	61.01
1034.00	1025.18	16.9	337.5	60.26	-17.80	344	62.84	344	63.61	344	62.06	344	63.22	344	62.45
1039.00	1029.95	17.0	339.2	61.64	-18.34	343	64.31	343	65.10	343	63.52	343	64.70	343	63.92
1044.00	1034.74	16.6	338.7	62.99	-18.86	343	65.75	343	66.56	343	64.95	343	66.15	343	65.35
1049.00	1039.52	16.6	337.7	64.33	-19.39	343	67.19	343	68.01	343	66.37	343	67.60	343	66.78
1054.00	1044.31	16.5	337.3	65.65	-19.94	343	68.61	343	69.45	343	67.78	343	69.03	343	68.19
1059.00	1049.10	16.5	337.9	66.98	-20.48	343	70.04	343	70.89	343	69.18	343	70.47	343	69.61
1064.00	1053.90	16.3	337.3	68.29	-21.02	343	71.46	343	72.33	343	70.59	343	71.89	343	71.02
1069.00	1058.69	16.3	337.1	69.59	-21.58	343	72.86	343	73.74	343	71.97	343	73.30	343	72.41
1074.00	1063.49	17.0	337.6	70.90	-22.13	343	74.27	343	75.18	343	73.37	343	74.72	343	73.82
1079.00	1068.27	17.3	338.5	72.27	-22.67	343	75.74	343	76.66	343	74.82	343	76.20	343	75.28
1084.00	1073.04	17.2	337.6	73.65	-23.22	342	77.22	343	78.16	342	76.28	342	77.69	342	76.75
1089.00	1077.82	16.9	339.0	75.02	-23.76	342	78.69	342	79.65	342	77.74	342	79.17	342	78.22
1094.00	1082.59	17.5	338.3	76.40	-24.30	342	80.17	342	81.14	342	79.20	342	80.66	342	79.69
1099.00	1087.36	17.3	338.0	77.79	-24.85	342	81.66	342	82.65	342	80.67	342	82.15	342	81.17
1104.00	1092.13	17.7	337.1	79.17	-25.43	342	83.16	342	84.16	342	82.15	342	83.66	342	82.65
1109.00	1096.88	18.0	338.2	80.61	-26.03	342	84.71	342	85.72	342	83.68	342	85.22	342	84.20
1114.00	1101.63	18.2	337.2	82.05	-26.62	342	86.26	342	87.30	342	85.23	342	86.78	342	85.75
1119.00	1106.37	18.7	337.6	83.54	-27.23	342	87.87	342	88.92	342	86.81	342	88.39	342	87.34
1124.00	1111.10	18.8	338.8	85.03	-27.84	342	89.47	342	90.54	342	88.40	342	90.01	342	88.94
1129.00	1115.83	18.6	338.9	86.55	-28.41	342	91.09	342	92.17	342	90.00	342	91.63	342	90.54
1134.00	1120.57	18.5	338.0	88.04	-28.99	342	92.69	342	93.79	342	91.58	342	93.24	342	92.13
1139.00	1125.30	18.7	337.2	89.52	-29.60	342	94.29	342	95.41	342	93.17	342	94.85	342	93.73
1144.00	1130.04	18.6	337.3	91.00	-30.22	342	95.88	342	97.02	342	94.75	342	96.45	342	95.31
1149.00	1134.78	18.2	337.8	92.47	-30.82	342	97.47	342	98.62	342	96.31	342	98.04	342	96.89
1154.00	1139.53	18.0	336.7	93.90	-31.42	342	99.02	342	100.19	341	97.85	342	99.60	341	98.43
1159.00	1144.28	25.2	346.0	95.34	-32.03	341	100.57	341	101.76	341	99.39	341	101.17	341	99.98
1164.00	1149.04	17.6	337.7	96.74	-32.61	341	102.09	341	103.29	341	100.89	341	102.69	341	101.49
1169.00	1153.80	17.6	338.9	98.16	-33.17	341	103.61	341	104.83	341	102.40	341	104.22	341	103.01
1174.00	1158.56	17.9	338.2	99.58	-33.73	341	105.14	341	106.37	341	103.90	341	105.76	341	104.52
1179.00	1163.32	18.1	338.0	101.01	-34.30	341	106.68	341	107.93	341	105.43	341	107.30	341	106.05
1184.00	1168.07	18.0	337.9	102.45	-34.89	341	108.22	341	109.49	341	106.96	341	108.86	341	107.59
1189.00	1172.82	17.8	338.1	103.89	-35.46	341	109.77	341	111.06	341	108.49	341	110.42	341	109.13
1194.00	1177.59	17.8	337.4	105.30	-36.04	341	111.30	341	112.60	341	109.99	341	111.95	341	110.65
1199.00	1182.34	17.7	337.5	106.73	-36.62	341	112.84	341	114.15	341	111.52	341	113.50	341	112.18
1204.00	1187.10	17.7	335.8	108.12	-37.23	341	114.35	341	115.69	341	113.02	341	115.02	341	113.68
1209.00	1191.87	17.7	335.6	109.51	-37.85	341	115.87	341	117.22	341	114.52	341	116.54	341	115.19
1214.00	1196.63	17.4	333.7	110.88	-38.51	341	117.38	341	118.74	341	116.01	341	118.06	341	116.69
1219.00	1201.40	17.3	334.5	112.21	-39.18	341	118.86	341	120.24	341	117.47	341	119.55	341	118.16
1219.50	1201.38	17.2	334.2	112.35	-39.24	341	119.00	341	120.39	341	117.62	341	119.70	341	118.31

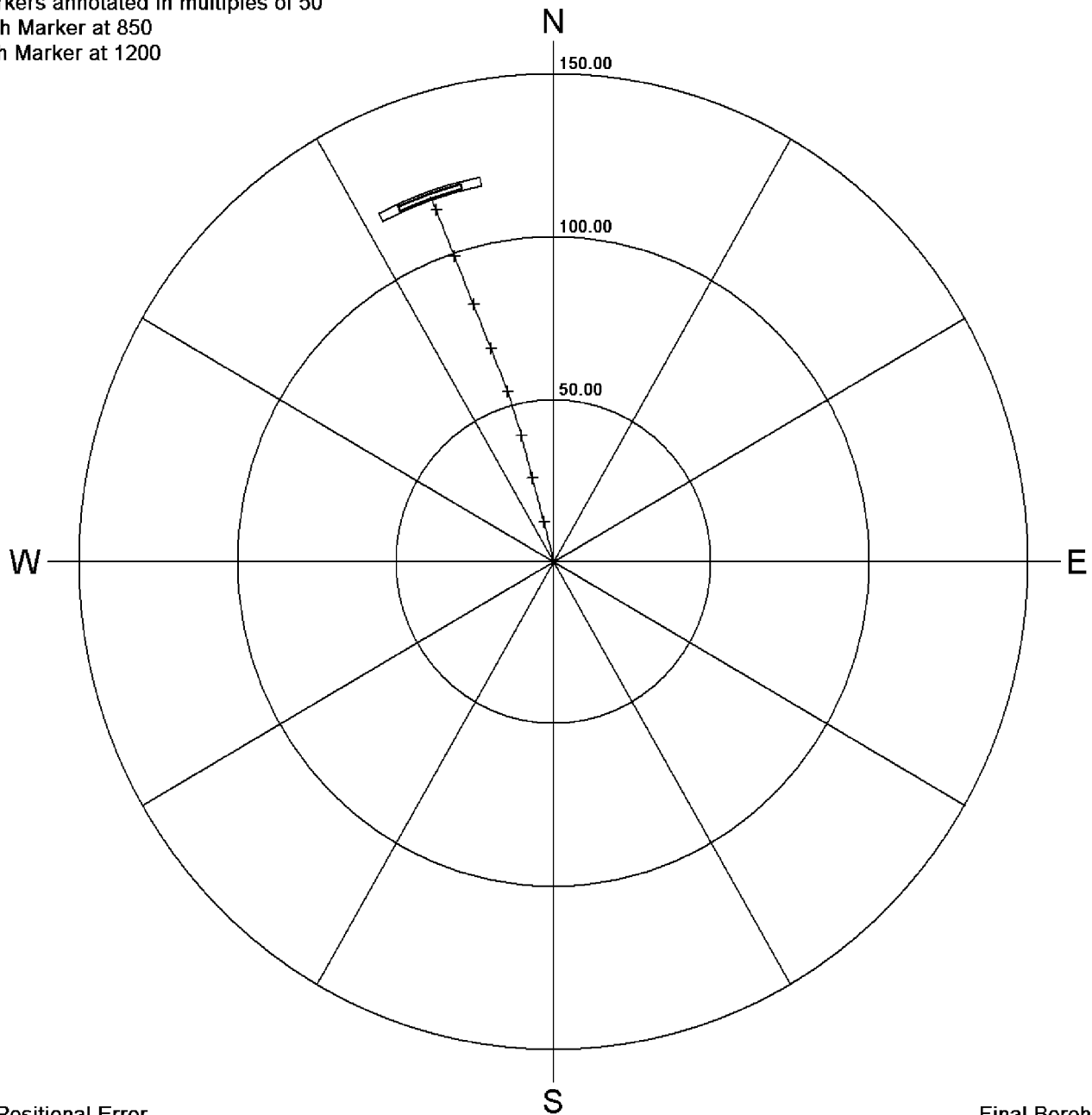
Cross Section

All Figures are Log Depths in metres

Plot With Respect to True North

Target Origin Depth 804.16
 Last Plotted Depth 1219.50
 Depth Markers annotated in multiples of 50
 First Depth Marker at 850
 Last Depth Marker at 1200

Scale 1:2000
 Declination 0.0 deg



Borehole Positional Error

Final Borehole Position

The two boxes surrounding the last plotted depth show the typical and maximum positional error at that depth.

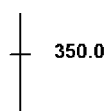
The last plotted depth is at
 112.35 metres North
 39.24 metres West
 ie 119.00 metres from the origin
 341 deg from True North

Vertical Sections

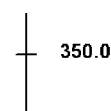
North-South Section

East-West Section

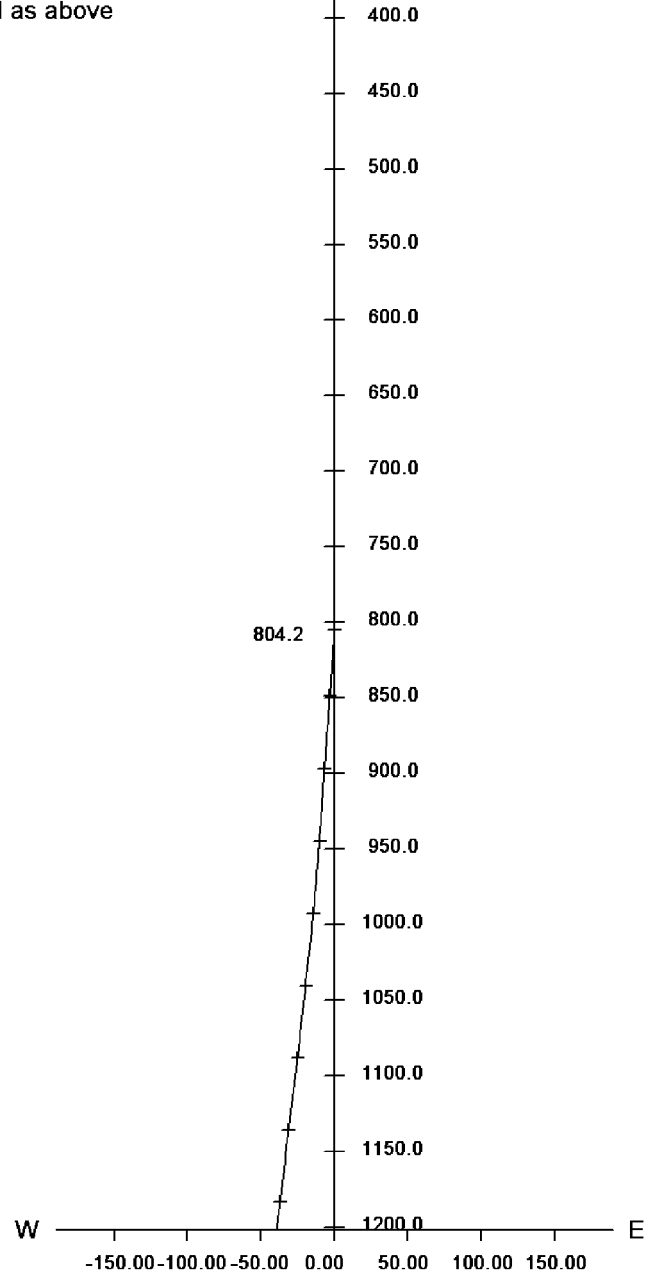
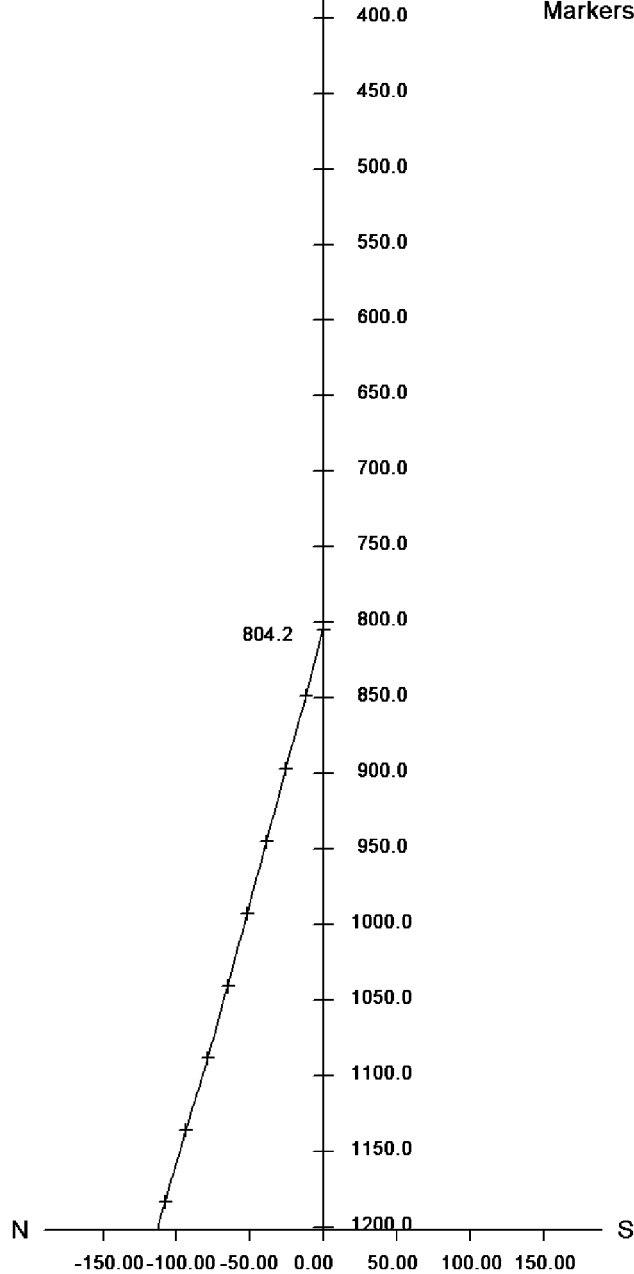
(True Depth vs Displacement)



Vertical Scale 1:5000
 Horizontal Scale 1:5000



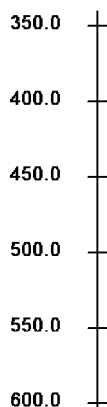
Markers annotated as above



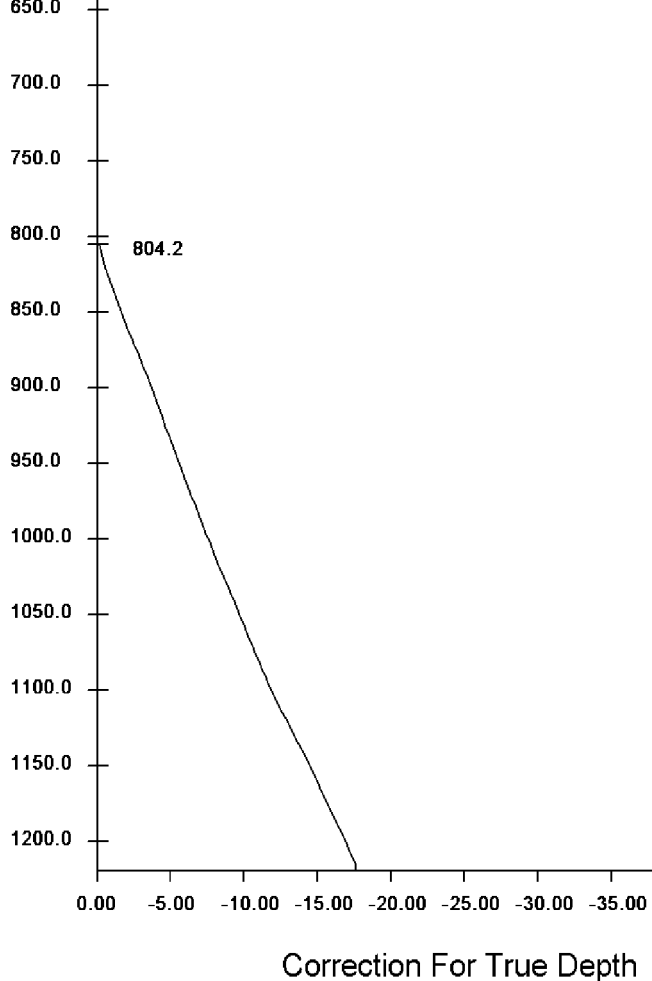
Depth Correction Analysis

Vertical Scale 1:5000
Horizontal Scale 1:500

Log
Depth



Depths		Depths	
Log	True	Log	True
809.00	808.87	1144.00	1130.04
814.00	813.74	1149.00	1134.78
819.00	818.60	1154.00	1139.53
824.00	823.44	1159.00	1144.28
829.00	828.28	1164.00	1149.04
834.00	833.11	1169.00	1153.80
839.00	837.92	1174.00	1158.56
844.00	842.73	1179.00	1163.32
849.00	847.54	1184.00	1168.07
854.00	852.35	1189.00	1172.82
859.00	857.15	1194.00	1177.59
864.00	861.94	1199.00	1182.34
869.00	866.73	1204.00	1187.10
874.00	871.51	1209.00	1191.87
879.00	876.30	1214.00	1196.63
884.00	881.09	1219.00	1201.40
889.00	885.88	1219.50	1201.88
894.00	890.68		
899.00	895.49		
904.00	900.29		
909.00	905.11		
914.00	909.92		
919.00	914.74		
924.00	919.56		
929.00	924.37		
934.00	929.18		



934.00	929.18
939.00	933.99
944.00	938.80
949.00	943.61
954.00	948.42
959.00	953.23
964.00	958.04
969.00	962.84
974.00	967.64
979.00	972.42
984.00	977.22
989.00	982.02
994.00	986.82
999.00	991.62
1004.00	996.43
1009.00	1001.23
1014.00	1006.02
1019.00	1010.81
1024.00	1015.61
1029.00	1020.39
1034.00	1025.18
1039.00	1029.95
1044.00	1034.74
1049.00	1039.52
1054.00	1044.31
1059.00	1049.10
1064.00	1053.90
1069.00	1058.69
1074.00	1063.49
1079.00	1068.27
1084.00	1073.04
1089.00	1077.82
1094.00	1082.59
1099.00	1087.36
1104.00	1092.13
1109.00	1096.88
1114.00	1101.63
1119.00	1106.37
1124.00	1111.10
1129.00	1115.83
1134.00	1120.57
1139.00	1125.30

COMPANY LAKES OIL NL
WELL LOY YANG 2
FIELD EXPLORATION
PROVINCE/COUNTY QUEENSLAND
COUNTRY/STATE AUSTRALIA

Elevation Kelly Bushing	107.65	metres	First Reading	1440.90	metres
Elevation Drill Floor		metres	Depth Driller	1443.00	metres
Elevation Ground Level	104.00	metres	Depth Logger	1442.08	metres



BORHOLE DIRECTION
BGN
1:200