Company: **Chevron Canada Resources**

Well: **Chevron et al Liard**

Field: **LIARD**

Rig: **Akita 48E**

Province: **Northwest Territories**

Schlumberger

True Vertical Depth
Scale 1:240
Slimpulse Real Time

Rig:	Akita 48E
Field:	LIARD
Location:	3K-29
Well:	Chevron et al Liard
Company:	Chevron Canada Resources

Total depth:	3700.00 m
Spud date:	12-January-2004
Runs:	1 To 4

Elevation

K.B.	417.30 m
G.L.	409.90 m
D.F.	417.30 m

Location

Permanent datum:	Mean Sea Level
Elev.:	409.90 m
Log measured from:	Drill Floor
	417.30 m above Perm. datum
Depth reference:	Driller's Pipe Tally

Lease no.	Unique Well ID	Longitude	Latitude
SDL99	303K296030123301233/00	W 123 35' 3.39	N 60 28' 42.35

Depth logged:	2522.52 m To 2920.00 m	Other services:	
Date logged:	04-Feb-04 To 15-Feb-04	Directional Drilling/Well Planning	

Bore hole record

Hole size	from	to
311.15 mm	220.00 m	778.01 m
222.25 mm	778.01 m	2912.00 m
155.58 mm	2912.00 m	3700.00 m

Mud record

Type	from	to
H2O	0.00 m	778.01 m
Invert	774.00 m	2912.00 m
H2O	2912.00 m	3700.00 m

Casing record

Size	Density	from	to
245.00 mm	131.20 kg/m	0.00 m	771.00 m
178.00 mm	85.25 kg/m	0.00 m	2912.00 m

Borehole deviation record

Min	Max	from	to
0.00 deg.	29.92 deg.	0.00 m	778.01 m
24.43 deg.	65.01 deg.	778.01 m	2912.00 m
69.91 deg.	90.34 deg.	2912.00 m	3700.00 m

Surface equipment

Software record

Unit	5	IDEAL Wis
Depth system	Pason	SPM
		LWD
		MWD

ID8_1C_01		
8_1c_07		
6.0		
6.0		

DISCLAIMER
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OTHER SERVICES FOR RUN 1	OTHER SERVICES FOR RUN 2	OTHER SERVICES FOR RUN 3
Directional Drilling and Well Planning	Directional Drilling and Well Planning	Directional Drilling and Well Planning

REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2	REMARKS: RUN NUMBER 3
Run 1: Slimpulse Equipment used; SPMA: 455 SPEC: 308 Drilled from: 2640.50 m to 2731.30 m Logged from: 2522.52 m to 2712.99 m POOH to increase bend in motor 1.83 to 2.12 Gamma is corrected for mud weight, collar size and bit size.	Run 2: Slimpulse Equipment used; SPMA: 046 SPEC: 308 Drilled from: 2731.30 m to 2779.58 m Logged from: 2712.99 m to 2761.27 m POOH to decrease bend in motor 2.12 to 1.83. Gamma is corrected for mud weight, collar size and bit size.	Run 3: Slimpulse Equipment used; SPMA: 455 SPEC: 239 Drilled from: 2779.58 m to 2912.00 m Logged from: 2761.27 m to 2893.62 m POOH to run intermediate casing. Gamma is corrected for mud weight, collar size and bit size.

EQUIPMENT DESCRIPTION

RUN1	RUN2	RUN3
DOWNHOLE EQUIPMENT	DOWNHOLE EQUIPMENT	DOWNHOLE EQUIPMENT
SlimPulse 21.89 OD 170.94	SlimPulse 21.89 OD 170.94	SlimPulse 21.96 OD 170.94
GR 18.31	GR 18.31	GR 18.38
D&I 17.39	D&I 17.39	D&I 17.46
UBHO 12.44 OD 165.10	UBHO 12.44 OD 165.10	UBHO 12.51 OD 165.10
FS 11.73 OD 165.10	FS 11.73 OD 165.10	FS 11.80 OD 165.10
XO 10.94 OD 163.07	XO 10.94 OD 163.07	XO 11.01 OD 163.07
PDM 8.01 OD 169.93	PDM 8.01 OD 169.93	PDM 8.08 OD 169.93
BIT-Insert 0.00 0.25 OD 222.25	BIT-Insert 0.00 0.25 OD 222.25	BIT-Insert 0.00 0.25 OD 222.25
Maximum string diameter 222.25 All lengths in Meters	Maximum string diameter 222.25 All lengths in Meters	Maximum string diameter 22: All lengths in Meters

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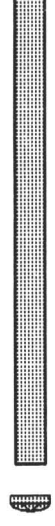
OTHER SERVICES FOR RUN 4	OTHER SERVICES FOR RUN	OTHER SERVICES FOR RUN
Directional Drilling and Well Planning		

REMARKS: RUN NUMBER 4	REMARKS: RUN NUMBER	REMARKS: RUN NUMBER
Run 4: Slimpulse Equipment used; SPMA: 455 SPEC: 239 Drilled from: 2912.00 m to 3700.00 m Logged from: 2893.62 m to 2920.00 m POOH, reached TD. Gamma is corrected for mud weight, collar size and bit size.		

EQUIPMENT DESCRIPTION

RUN4	RUN	RUN

DOWNHOLE EQUIPMENT



SlimPulse OD 119.89	21.06
GR	17.51
D&I	16.59
UBHO OD 119.89	11.72
PMDC OD 115.06	10.83
PDM OD 120.90	8.02
BIT-PDC OD 155.58	0.00 / 0.20

Maximum string diameter 155.58

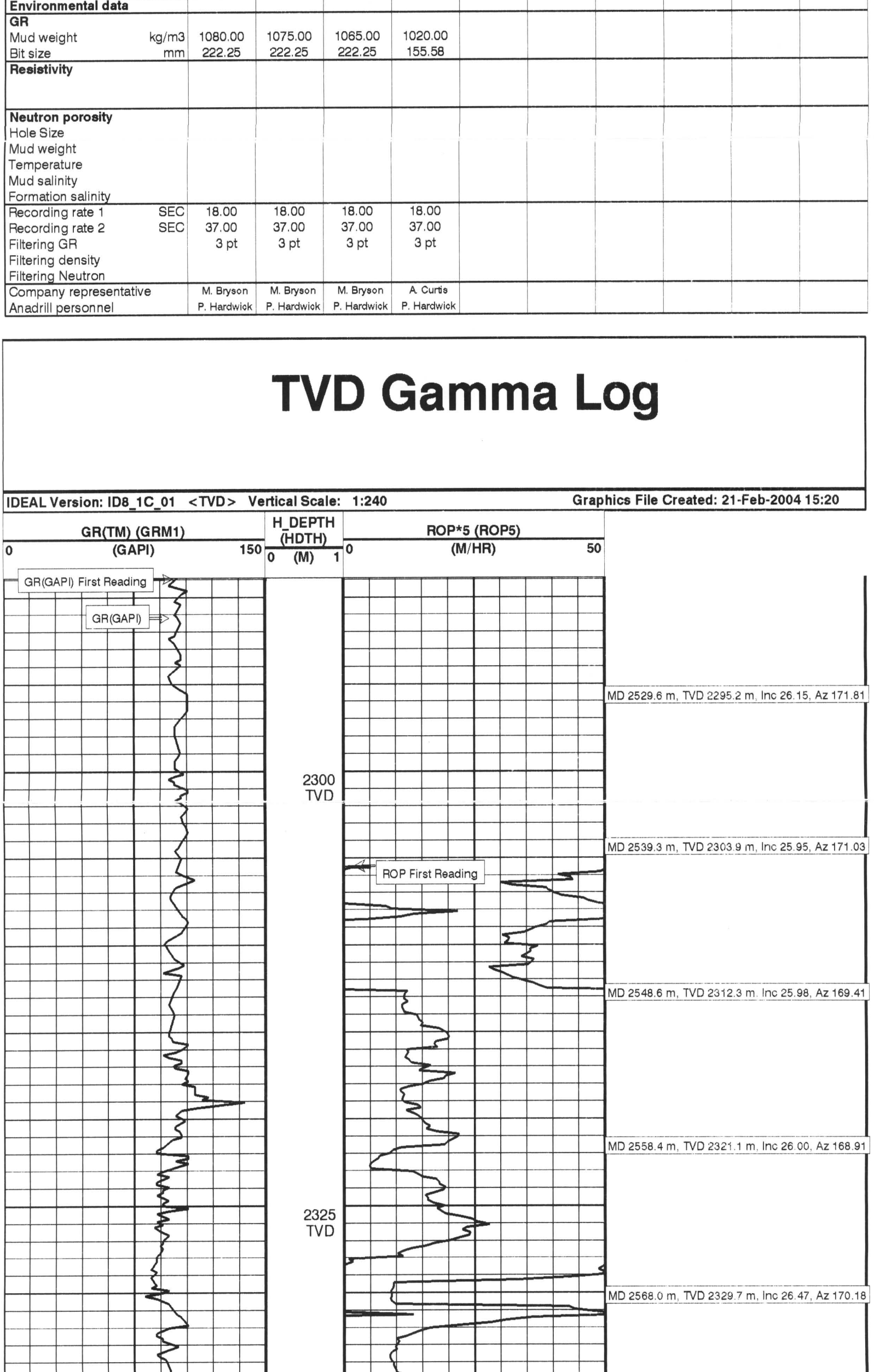
All lengths in Meters

Bit Run Summary

Run number		1	2	3	4
Bit size	mm	222.25	222.25	222.25	155.58
Bit start depth	m	2640.50	2731.30	2779.58	2912.00
Bit end depth	m	2731.30	2779.58	2912.00	3700.00
Top interval logged	m	2522.52	2712.99	2761.27	2893.62
Bottom interval logged	m	2712.99	2761.27	2893.62	2920.00
Begin log: time		12:08	03:31	15:34	20:23
Begin log: date		04-Feb-04	06-Feb-04	07-Feb-04	14-Feb-04
End log: time		13:22	11:50	21:05	03:58
End log: date		05-Feb-04	06-Feb-04	08-Feb-04	15-Feb-04
Mud data					
Depth	m	2700.00	2778.00	2903.00	2916.00
Type		Invert	Invert	Invert	H2O
Mud weight	kg/m3	1080.00	1075.00	1065.00	1020.00
Solids	%	0.10	0.10	0.10	0.01
Chlorides					
Rm					
Rmf					
Rmc					
Potassium					
Environmental data					
GR					
Mud weight	kg/m3	1080.00	1075.00	1065.00	1020.00
Bit size	mm	222.25	222.25	222.25	155.58
Resistivity					
Neutron porosity					
Hole Size					
Mud weight					
Temperature					
Mud salinity					
Formation salinity					
Recording rate 1	SEC	18.00	18.00	18.00	18.00
Recording rate 2	SEC	37.00	37.00	37.00	37.00
Filtering GR		3 pt	3 pt	3 pt	3 pt
Filtering density					
Filtering Neutron					
Company representative		M. Bryson	M. Bryson	M. Bryson	A. Curtis
Anadrill personnel		P. Hardwick	P. Hardwick	P. Hardwick	P. Hardwick

TVD Gamma Log

IDEAL Version: ID8_1C_01 <TVD> Vertical Scale: 1:240 **Graphics File Created: 21-Feb-2004 15:20**



GR(GAPI)

ROP5

2350 TVD

2375 TVD

2400 TVD

2425 TVD

2450 TVD

2475 TVD

2500 TVD

2525 TVD

MD 2577.5 m, TVD 2338.2 m, Inc 27.08, Az 171.03

MD 2587.0 m, TVD 2346.6 m, Inc 28.23, Az 171.21

MD 2596.6 m, TVD 2355.0 m, Inc 29.00, Az 170.86

MD 2606.0 m, TVD 2363.2 m, Inc 29.85, Az 169.56

MD 2615.7 m, TVD 2371.6 m, Inc 28.98, Az 168.09

MD 2626.8 m, TVD 2381.4 m, Inc 28.35, Az 165.26

MD 2636.2 m, TVD 2389.6 m, Inc 28.70, Az 162.91

MD 2645.7 m, TVD 2397.9 m, Inc 30.67, Az 160.18

MD 2655.4 m, TVD 2406.2 m, Inc 31.20, Az 157.63

MD 2664.6 m, TVD 2414.1 m, Inc 31.50, Az 155.88

MD 2674.5 m, TVD 2422.6 m, Inc 30.40, Az 157.38

MD 2683.6 m, TVD 2430.4 m, Inc 29.73, Az 154.16

MD 2692.7 m, TVD 2438.4 m, Inc 29.35, Az 152.93

MD 2702.7 m, TVD 2447.1 m, Inc 29.95, Az 150.08

MD 2711.7 m, TVD 2454.8 m, Inc 30.30, Az 149.18

MD 2721.9 m, TVD 2463.6 m, Inc 31.73, Az 146.44

MD 2731.7 m, TVD 2471.8 m, Inc 33.85, Az 146.96

MD 2740.9 m, TVD 2479.4 m, Inc 35.88, Az 146.31

MD 2750.9 m, TVD 2487.4 m, Inc 38.02, Az 147.68

MD 2759.9 m, TVD 2494.3 m, Inc 40.90, Az 147.79

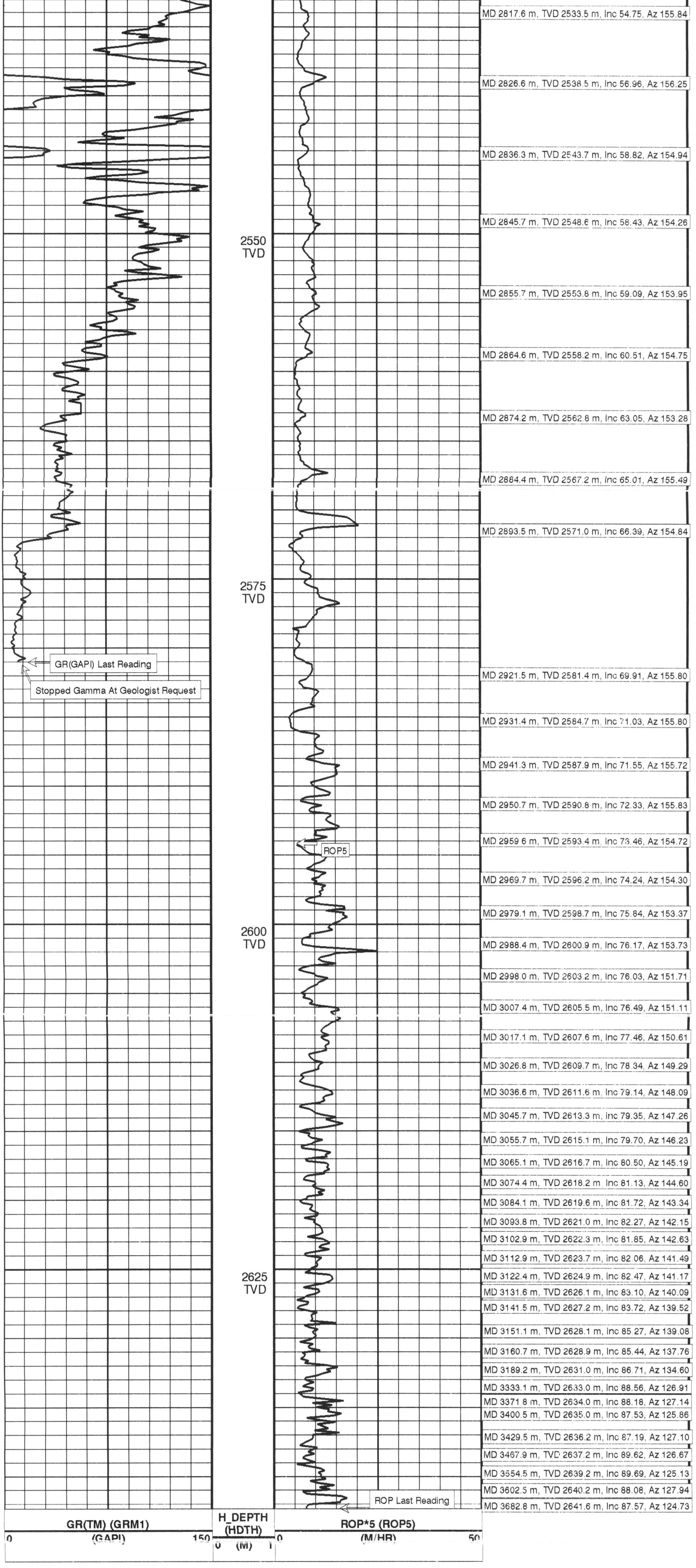
MD 2770.0 m, TVD 2501.8 m, Inc 43.57, Az 149.83

MD 2779.0 m, TVD 2508.2 m, Inc 45.26, Az 150.86

MD 2789.7 m, TVD 2515.7 m, Inc 46.51, Az 152.92

MD 2799.2 m, TVD 2522.1 m, Inc 48.87, Az 154.61

MD 2808.1 m, TVD 2527.8 m, Inc 51.29, Az 156.48



SCHLUMBERGER

Survey report 21-Feb-2004 12:07:54 Page 1 of 13

Client.....: Chevron Canada Resources
Field.....: Liard

Well.....: Chevron et al Liard
Lease number.....: SDL99
Engineer.....: Paul Hardwick

Rig Label.....: Akita 48E
Province:.....: Northwest Territories

----- Survey calculation methods-----
Method for positions.....: Minimum curvature
Method for DLS.....: Mason & Taylor

----- Depth reference -----
Permanent datum.....: Mean Sea Level
Depth reference.....: Driller's Pipe Tally
GL above permanent.....: 409.90 m
KB above permanent.....: 417.30 m
DF above permanent.....: 417.30 m

----- Vertical section origin----
Latitude (+N/S-).....: 0.00 m
Departure (+E/W-).....: 0.00 m

----- Platform reference point----
Latitude (+N/S-).....:
Departure (+E/W-).....:

Azimuth from rotary table to target: 155.94 degrees

Spud date.....: 01/12/2004
Last survey date.....: 21-Feb-04
Total accepted surveys...: 355
MD of first survey.....: 0.00 m
MD of last survey.....: 3682.80 m

----- Geomagnetic data -----
Magnetic model.....: BGGM version 2002
Magnetic date.....: 31-Dec-2003
Magnetic field strength..: 1174.62 HCNT
Magnetic dec (+E/W-).....: 24.61 degrees
Magnetic dip.....: 78.53 degrees

----- MWD survey Reference Criteria ---
Reference G.....: 1002.00 mGal
Reference H.....: 1174.62 HCNT
Reference Dip.....: 78.53 degrees
Tolerance of G.....: (+/-) 2.50 mGal
Tolerance of H.....: (+/-) 6.00 HCNT
Tolerance of Dip.....: (+/-) 0.45 degrees

----- Corrections -----
Magnetic dec (+E/W-).....: 24.61 degrees
Grid convergence (+E/W-).: 0.00 degrees
Total az corr (+E/W-)....: 24.61 degrees
(Total az corr = magnetic dec - grid conv)
Survey Correction Type ...:
I=Sag Corrected Inclination
M=Schlumberger Magnetic Correction
S=Shell Magnetic Correction
F=Failed Axis Correction
R=Magnetic Resonance Tool Correction
D=Dmag Magnetic Correction

Seq # -	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/ 100f)	Srvy tool type	Tool Corr (deg)
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	TIP	None
2	75.20	0.54	227.19	75.20	75.20	0.11	-0.24	-0.26	0.35	227.19	0.22	MWD_M	None
3	103.90	0.64	208.43	28.70	103.90	0.25	-0.47	-0.44	0.64	222.59	0.23	MWD_M	None
4	132.60	0.66	188.11	28.70	132.60	0.49	-0.78	-0.54	0.94	214.51	0.24	MWD_M	None
5	156.30	1.69	251.65	23.70	156.29	0.57	-1.02	-0.89	1.35	220.89	1.95	MWD_M	None
6	184.30	1.98	248.60	28.00	184.28	0.51	-1.33	-1.73	2.18	232.42	0.33	MWD_M	None
7	211.50	2.52	250.54	27.20	211.46	0.44	-1.70	-2.73	3.22	238.08	0.61	MWD_M	None
8	223.00	2.49	257.04	11.50	222.94	0.37	-1.84	-3.21	3.70	240.18	0.76	MWD_M	None
9	232.40	2.39	253.16	9.40	232.34	0.31	-1.94	-3.60	4.09	241.63	0.63	MWD_M	None
10	241.80	2.11	246.27	9.40	241.73	0.28	-2.07	-3.94	4.45	242.31	1.26	MWD_M	None
11	250.90	1.64	242.67	9.10	250.82	0.29	-2.20	-4.21	4.75	242.46	1.62	MWD_M	None
12	260.10	1.08	211.37	9.20	260.02	0.35	-2.33	-4.38	4.96	241.95	3.02	MWD_M	None
13	269.20	1.62	169.13	9.10	269.12	0.52	-2.53	-4.40	5.07	240.07	3.67	MWD_M	None
14	278.10	2.18	151.45	8.90	278.01	0.81	-2.80	-4.29	5.13	236.84	2.75	MWD_M	None
15	287.30	2.97	138.74	9.20	287.20	1.21	-3.14	-4.05	5.12	232.25	3.21	MWD_M	None
16	306.00	3.58	135.68	18.70	305.87	2.22	-3.92	-3.32	5.14	220.30	1.03	MWD_M	None
17	315.80	4.23	138.28	9.80	315.65	2.85	-4.41	-2.87	5.26	213.06	2.09	MWD_M	None
18	325.20	4.70	135.25	9.40	325.02	3.55	-4.94	-2.37	5.48	205.60	1.70	MWD_M	None
19	334.80	5.04	139.26	9.60	334.59	4.32	-5.54	-1.81	5.83	198.14	1.53	MWD_M	None
20	344.50	5.78	142.92	9.70	344.25	5.20	-6.25	-1.24	6.37	191.24	2.56	MWD_M	None
21	354.20	6.33	147.85	9.70	353.89	6.21	-7.09	-0.66	7.12	185.34	2.38	MWD_M	None
22	363.90	6.93	152.22	9.70	363.53	7.32	-8.06	-0.11	8.06	180.75	2.46	MWD_M	None
23	373.60	7.13	156.68	9.70	373.15	8.51	-9.13	0.41	9.14	177.45	1.83	MWD_M	None
24	383.50	7.72	161.73	9.90	382.97	9.78	-10.33	0.86	10.36	175.26	2.71	MWD_M	None
25	393.20	8.38	167.97	9.70	392.57	11.12	-11.64	1.21	11.70	174.07	3.44	MWD_M	None
26	402.90	9.25	173.33	9.70	402.16	12.56	-13.11	1.45	13.18	173.70	3.76	MWD_M	None
27	412.44	10.46	178.21	9.54	411.56	14.09	-14.73	1.56	14.82	173.95	4.69	MWD_M	None
28	422.10	11.76	179.83	9.66	421.04	15.80	-16.59	1.59	16.67	174.52	4.22	MWD_M	None
29	431.80	12.72	179.99	9.70	430.52	17.68	-18.65	1.60	18.72	175.11	3.02	MWD_M	None
30	441.50	13.44	179.60	9.70	439.97	19.69	-20.84	1.60	20.91	175.60	2.28	MWD_M	None

Seq # -	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/ 100f)	Srvy tool type	Tool Corr (deg)
31	451.20	14.53	179.88	9.70	449.38	21.83	-23.19	1.61	23.25	176.02	3.43	MWD_M	None
32	480.00	16.75	180.46	28.80	477.11	28.91	-30.95	1.59	30.99	177.06	2.36	MWD_M	None
33	489.80	17.69	183.63	9.80	486.47	31.51	-33.65	1.43	33.68	177.45	4.15	MWD_M	None
34	518.60	19.56	179.88	28.80	513.76	39.80	-43.04	1.22	43.06	178.38	2.35	MWD_M	None
35	528.40	20.38	182.09	9.80	522.97	42.83	-46.39	1.16	46.40	178.57	3.47	MWD_M	None
36	538.10	20.72	181.16	9.70	532.06	45.90	-49.79	1.06	49.80	178.78	1.48	MWD_M	None
37	547.90	21.11	179.24	9.80	541.21	49.09	-53.29	1.05	53.30	178.87	2.45	MWD_M	None
38	556.90	21.91	177.58	9.00	549.58	52.14	-56.59	1.14	56.60	178.84	3.40	MWD_M	None
39	566.90	22.94	176.66	10.00	558.83	55.69	-60.40	1.34	60.41	178.73	3.32	MWD_M	None
40	576.70	23.76	175.40	9.80	567.82	59.34	-64.27	1.60	64.29	178.57	2.99	MWD_M	None
41	586.20	24.35	175.98	9.50	576.50	62.98	-68.13	1.90	68.16	178.41	2.04	MWD_M	None
42	595.40	25.26	176.25	9.20	584.85	66.61	-71.98	2.16	72.01	178.28	3.04	MWD_M	None
43	605.50	26.35	177.97	10.10	593.94	70.71	-76.37	2.38	76.41	178.22	3.99	MWD_M	None
44	615.00	27.36	177.70	9.50	602.42	74.69	-80.66	2.54	80.70	178.20	3.26	MWD_M	None
45	624.40	27.41	178.69	9.40	610.77	78.69	-84.98	2.68	85.02	178.20	1.49	MWD_M	None

Seq # -	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/ 100f)	Srvy tool type	Tool Corr (deg)
46	634.30	27.28	179.43	9.90	619.56	82.87	-89.53	2.75	89.57	178.24	1.12	MWD_M	None
47	644.00	27.64	180.94	9.70	628.17	86.95	-94.00	2.74	94.04	178.33	2.46	MWD_M	None
48	653.80	27.70	181.01	9.80	636.85	91.07	-98.55	2.66	98.59	178.46	0.21	MWD_M	None
49	663.30	27.68	181.35	9.50	645.26	95.07	-102.97	2.57	103.00	178.57	0.51	MWD_M	None
50	673.00	28.21	180.05	9.70	653.83	99.19	-107.51	2.51	107.54	178.66	2.54	MWD_M	None
51	682.80	28.51	179.84	9.80	662.45	103.45	-112.17	2.52	112.19	178.71	0.98	MWD_M	None
52	692.40	29.27	179.59	9.60	670.86	107.69	-116.80	2.54	116.83	178.75	2.44	MWD_M	None
53	702.00	29.15	179.83	9.60	679.24	111.98	-121.49	2.56	121.52	178.79	0.53	MWD_M	None
54	711.60	29.01	178.25	9.60	687.63	116.27	-126.15	2.64	126.18	178.80	2.48	MWD_M	None
55	721.20	29.29	177.11	9.60	696.01	120.61	-130.83	2.83	130.86	178.76	1.97	MWD_M	None
56	730.70	29.52	176.31	9.50	704.29	124.97	-135.48	3.10	135.52	178.69	1.46	MWD_M	None
57	740.10	29.44	176.54	9.40	712.47	129.31	-140.10	3.39	140.14	178.61	0.45	MWD_M	None
58	759.40	29.73	177.48	19.30	729.25	138.20	-149.61	3.88	149.66	178.51	0.86	MWD_M	None
59	787.50	27.58	174.50	28.10	753.91	150.85	-163.05	4.81	163.12	178.31	2.80	MWD_M	None
60	821.50	24.43	168.76	34.00	784.47	165.17	-177.79	6.94	177.92	177.76	3.61	MWD_M	None

Seq # -	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/ 100f)	Srvy tool type	Tool Corr (deg)
61	831.20	24.43	167.19	9.70	793.30	169.09	-181.71	7.78	181.88	177.55	2.05	SP	None
62	840.20	25.63	167.64	9.00	801.46	172.83	-185.43	8.61	185.63	177.34	4.15	SP	None
63	850.10	27.28	165.79	9.90	810.32	177.16	-189.72	9.62	189.96	177.10	5.67	MWD_M	None
64	859.30	28.35	164.51	9.20	818.46	181.40	-193.87	10.72	194.16	176.83	4.06	SP	None
65	868.40	28.23	164.74	9.10	826.47	185.66	-198.03	11.87	198.38	176.57	0.54	SP	None
66	877.10	28.50	167.14	8.70	834.13	189.73	-202.03	12.87	202.44	176.36	4.10	MWD_M	None
67	887.10	28.38	170.19	10.00	842.92	194.37	-206.70	13.81	207.16	176.18	4.44	MWD_M	None
68	896.50	27.70	172.21	9.40	851.22	198.64	-211.07	14.48	211.57	176.07	3.79	SP	None
69	904.00	27.50	171.76	7.50	857.86	201.97	-214.51	14.97	215.03	176.01	1.17	SP	None
70	914.70	27.53	172.71	10.70	867.35	206.72	-219.41	15.63	219.96	175.92	1.25	SP	None
71	923.90	27.63	172.29	9.20	875.51	210.80	-223.63	16.19	224.21	175.86	0.74	SP	None
72	933.00	28.30	173.59	9.10	883.54	214.88	-227.86	16.71	228.48	175.80	3.03	SP	None
73	942.70	28.68	175.41	9.70	892.07	219.27	-232.47	17.16	233.10	175.78	2.96	SP	None
74	951.80	28.30	178.41	9.10	900.07	223.32	-236.80	17.39	237.44	175.80	4.95	MWD_M	None
75	959.60	28.28	177.56	7.80	906.94	226.74	-240.49	17.52	241.13	175.83	1.58	SP	None
76	970.50	28.38	178.71	10.90	916.53	231.53	-245.66	17.69	246.30	175.88	1.56	SP	None
77	980.00	28.25	176.81	9.50	924.90	235.71	-250.16	17.87	250.80	175.92	2.92	SP	None
78	988.60	28.30	177.41	8.60	932.47	239.51	-254.23	18.07	254.88	175.93	1.02	SP	None
79	1002.40	28.30	176.81	13.80	944.62	245.61	-260.77	18.40	261.42	175.96	0.63	SP	None
80	1012.70	28.35	175.74	10.30	953.69	250.20	-265.64	18.72	266.30	175.97	1.51	SP	None
81	1021.60	28.08	176.44	8.90	961.53	254.15	-269.84	19.01	270.51	175.97	1.45	SP	None
82	1031.60	27.95	175.64	10.00	970.36	258.56	-274.53	19.33	275.21	175.97	1.21	SP	None
83	1040.80	27.55	176.31	9.20	978.50	262.58	-278.80	19.63	279.49	175.97	1.69	SP	None
84	1049.60	28.10	174.69	8.80	986.28	266.45	-282.90	19.96	283.60	175.97	3.25	SP	None
85	1060.40	28.20	174.59	10.80	995.81	271.28	-287.97	20.43	288.69	175.94	0.31	SP	None
86	1069.60	28.43	174.91	9.20	1003.91	275.41	-292.31	20.83	293.05	175.92	0.89	SP	None
87	1078.90	28.50	176.34	9.30	1012.08	279.58	-296.73	21.17	297.49	175.92	2.25	SP	None
88	1088.80	28.53	175.19	9.90	1020.78	284.03	-301.44	21.52	302.21	175.92	1.71	SP	None
89	1098.50	28.38	174.81	9.70	1029.31	288.39	-306.05	21.92	306.83	175.90	0.71	SP	None
90	1108.10	28.83	175.21	9.60	1037.74	292.74	-310.63	22.32	311.43	175.89	1.55	SP	None

Seq # -	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/ 100f)	Srvy tool type	Tool Corr (deg)
91	1117.40	28.50	174.14	9.30	1045.90	296.96	-315.07	22.74	315.89	175.87	2.01	SP	None
92	1127.40	28.45	172.89	10.00	1054.69	301.51	-319.80	23.27	320.65	175.84	1.82	SP	None
93	1136.60	28.40	172.99	9.20	1062.78	305.70	-324.15	23.81	325.02	175.80	0.24	SP	None
94	1146.10	28.28	173.01	9.50	1071.14	310.01	-328.63	24.36	329.53	175.76	0.42	SP	None
95	1155.80	27.83	173.91	9.70	1079.70	314.36	-333.16	24.88	334.09	175.73	1.92	SP	None
96	1165.00	27.68	175.06	9.20	1087.84	318.42	-337.42	25.29	338.37	175.71	1.85	SP	None
97	1174.90	28.18	175.01	9.90	1096.59	322.80	-342.04	25.70	343.00	175.70	1.54	SP	None
98	1184.10	27.95	175.81	9.20	1104.71	326.88	-346.35	26.04	347.33	175.70	1.44	SP	None
99	1193.40	27.85	174.79	9.30	1112.93	330.98	-350.69	26.40	351.68	175.70	1.60	MWD_M	None
100	1203.50	28.28	173.21	10.10	1121.84	335.50	-355.41	26.90	356.43	175.67	2.58	SP	None
101	1213.00	28.15	172.21	9.50	1130.21	339.80	-359.87	27.46	360.91	175.64	1.56	SP	None
102	1222.10	27.80	174.66	9.10	1138.25	343.87	-364.11	27.95	365.18	175.61	4.02	SP	None
103	1231.90	27.55	174.79	9.80	1146.93	348.18	-368.64	28.37	369.73	175.60	0.80	SP	None
104	1241.50	27.48	173.76	9.60	1155.44	352.39	-373.05	28.81	374.16	175.58	1.53	SP	None
105	1251.20	27.85	174.61	9.70	1164.03	356.67	-377.53	29.27	378.67	175.57	1.70	SP	None
106	1260.85	27.50	174.29	9.65	1172.58	360.92	-381.99	29.70	383.15	175.55	1.20	SP	None
107	1270.20	27.20	175.21	9.35	1180.89	364.98	-386.27	30.10	387.44	175.54	1.69	SP	None
108	1279.40	27.63	174.79	9.20	1189.05	368.99	-390.49	30.47	391.68	175.54	1.56	SP	None
109	1289.30	28.10	172.86	9.90	1197.80	373.39	-395.09	30.96	396.30	175.52	3.13	SP	None
110	1299.00	27.98	172.11	9.70	1206.37	377.76	-399.61	31.56	400.86	175.48	1.17	SP	None
111	1308.40	28.25	173.51	9.40	1214.66	382.00	-404.01	32.11	405.28	175.46	2.31	SP	None
112	1317.90	28.33	175.04	9.50	1223.02	386.27	-408.49	32.56	409.78	175.44	2.34	SP	None
113	1327.60	28.10	174.26	9.70	1231.57	390.62	-413.05	32.99	414.37	175.43	1.37	SP	None
114	1336.90	28.48	174.60	9.30	1239.76	394.80	-417.44	33.42	418.77	175.42	1.35	MWD_M	None
115	1347.00	28.45	173.74	10.10	1248.64	399.37	-422.23	33.91	423.59	175.41	1.24	SP	None
116	1356.30	28.50	172.46	9.30	1256.81	403.60	-426.63	34.44	428.02	175.38	2.01	SP	None
117	1365.50	28.75	173.54	9.20	1264.89	407.82	-431.00	34.98	432.42	175.36	1.90	SP	None
118	1375.30	29.25	174.66	9.80	1273.46	412.33	-435.73	35.47	437.17	175.35	2.30	SP	None
119	1384.90	29.00	177.46	9.60	1281.85	416.72	-440.39	35.79	441.84	175.35	4.40	SP	None
120	1394.10	29.05	176.41	9.20	1289.89	420.89	-444.85	36.03	446.30	175.37	1.70	SP	None

Seq # -	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/ 100f)	Srvy tool type	Tool Corr (deg)
121	1404.00	28.85	176.06	9.90	1298.55	425.38	-449.63	36.34	451.10	175.38	0.81	SP	None
122	1413.20	28.83	174.64	9.20	1306.61	429.57	-454.05	36.70	455.53	175.38	2.29	SP	None
123	1422.20	28.90	175.49	9.00	1314.49	433.67	-458.38	37.07	459.88	175.38	1.43	SP	None
124	1432.60	28.68	175.41	10.40	1323.61	438.39	-463.37	37.47	464.89	175.38	0.68	SP	None
125	1442.20	28.63	173.26	9.60	1332.03	442.76	-467.95	37.93	469.49	175.37	3.28	SP	None
126	1451.50	28.98	174.31	9.30	1340.18	447.02	-472.41	38.41	473.97	175.35	2.02	SP	None
127	1461.10	28.80	175.41	9.60	1348.59	451.41	-477.03	38.83	478.60	175.35	1.78	SP	None
128	1470.80	28.48	177.46	9.70	1357.10	455.77	-481.67	39.12	483.25	175.36	3.25	SP	None
129	1480.30	28.63	176.96	9.50	1365.45	460.00	-486.20	39.34	487.79	175.37	0.91	SP	None
130	1489.80	28.63	177.06	9.50	1373.79	464.24	-490.75	39.57	492.34	175.39	0.15	SP	None
131	1497.60	28.58	176.76	7.80	1380.63	467.73	-494.48	39.78	496.07	175.40	0.59	SP	None
132	1508.70	28.38	174.74	11.10	1390.39	472.71	-499.75	40.17	501.37	175.40	2.70	SP	None
133	1518.50	28.15	173.59	9.80	1399.02	477.12	-504.37	40.64	506.00	175.39	1.84	SP	None
134	1528.20	28.15	174.86	9.70	1407.57	481.46	-508.92	41.10	510.58	175.38	1.88	SP	None
135	1537.50	28.33	176.01	9.30	1415.77	485.61	-513.31	41.45	514.98	175.38	1.88	SP	None
136	1547.10	28.25	176.49	9.60	1424.22	489.88	-517.85	41.75	519.53	175.39	0.77	SP	None
137	1556.80	28.18	175.89	9.70	1432.77	494.18	-522.42	42.05	524.11	175.40	0.94	SP	None
138	1566.10	28.08	174.39	9.30	1440.97	498.32	-526.79	42.42	528.50	175.40	2.34	SP	None
139	1575.90	28.35	175.44	9.80	1449.61	502.70	-531.41	42.84	533.13	175.39	1.76	SP	None
140	1585.50	28.65	175.64	9.60	1458.04	507.02	-535.97	43.19	537.71	175.39	1.00	SP	None
141	1594.90	28.40	175.41	9.40	1466.30	511.20	-540.45	43.62	542.20	175.39	3.49	MWD_M	None
142	1604.60	28.15	173.79	9.70	1474.84	515.66	-545.02	44.13	546.80	175.37	1.18	SP	None
143	1614.30	27.83	175.11	9.70	1483.40	519.98	-549.55	44.58	551.36	175.36	2.19	SP	None
144	1623.60	28.10	174.64	9.30	1491.62	524.10	-553.89	44.97	555.72	175.36	1.15	SP	None
145	1633.40	27.83	174.26	9.80	1500.27	528.46	-558.47	45.41	560.31	175.35	1.00	SP	None
146	1642.90	27.88	172.26	9.50	1508.67	532.70	-562.88	45.93	564.75	175.33	3.00	SP	None
147	1652.10	28.23	173.01	9.20	1516.79	536.84	-567.17	46.49	569.07	175.31	1.65	SP	None
148	1661.80	28.28	173.99	9.70	1525.34	541.22	-571.73	47.01	573.66	175.30	1.46	SP	None
149	1671.50	28.38	174.26	9.70	1533.88	545.59	-576.31	47.48	578.26	175.29	0.53	SP	None
150	1681.00	28.18	174.09	9.50	1542.24	549.87	-580.78	47.93	582.76	175.28	0.72	SP	None

Seq # -	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/ 100f)	Srvy tool type	Tool Corr (deg)
151	1690.50	28.30	172.74	9.50	1550.61	554.15	-585.25	48.45	587.25	175.27	2.09	SP	None
152	1700.10	28.43	172.66	9.60	1559.06	558.52	-589.77	49.03	591.80	175.25	0.40	SP	None
153	1709.70	28.95	173.31	9.60	1567.48	562.92	-594.34	49.59	596.41	175.23	1.95	SP	None
154	1719.20	28.55	175.54	9.50	1575.81	567.26	-598.89	50.03	600.98	175.22	3.67	SP	None
155	1728.80	28.33	177.69	9.60	1584.25	571.53	-603.45	50.31	605.55	175.23	3.31	SP	None
156	1738.50	28.42	177.79	9.70	1592.79	575.81	-608.06	50.49	610.15	175.25	0.33	MWD_M	None
157	1747.80	28.33	177.56	9.30	1600.97	579.92	-612.48	50.67	614.57	175.27	0.46	SP	None
158	1757.30	28.30	178.56	9.50	1609.33	584.09	-616.98	50.82	619.07	175.29	1.52	SP	None
159	1764.50	28.20	177.81	7.20	1615.67	587.25	-620.39	50.93	622.47	175.31	1.56	MWD_M	None
160	1772.90	28.28	174.96	8.40	1623.08	590.97	-624.35	51.18	626.44	175.31	4.90	SP	None
161	1782.80	28.20	174.99	9.90	1631.80	595.40	-629.02	51.59	631.13	175.31	0.22	SP	None
162	1792.20	27.68	176.34	9.40	1640.10	599.54	-633.41	51.92	635.53	175.31	2.68	SP	None
163	1801.40	27.45	174.31	9.20	1648.26	603.56	-637.65	52.27	639.79	175.31	3.20	SP	None
164	1811.30	27.40	173.89	9.90	1657.05	607.89	-642.18	52.74	644.35	175.31	0.63	SP	None
165	1820.90	26.80	174.16	9.60	1665.59	612.05	-646.53	53.19	648.72	175.30	1.95	SP	None
166	1830.10	26.15	177.46	9.20	1673.83	615.91	-650.62	53.49	652.82	175.30	5.33	SP	None
167	1839.90	26.43	179.26	9.80	1682.61	619.92	-654.96	53.62	657.15	175.32	2.62	SP	None
168	1849.50	26.75	179.36	9.60	1691.20	623.86	-659.26	53.67	661.44	175.35	1.06	SP	None
169	1858.60	26.85	179.06	9.10	1699.32	627.63	-663.36	53.73	665.53	175.37	0.56	SP	None
170	1868.60	27.68	177.01	10.00	1708.21	631.87	-667.94	53.88	670.11	175.39	3.80	SP	None
171	1878.20	27.68	176.39	9.60	1716.71	636.04	-672.39	54.14	674.56	175.40	0.93	SP	None
172	1887.60	27.58	176.76	9.40	1725.04	640.12	-676.74	54.40	678.92	175.40	0.64	SP	None
173	1897.30	28.18	177.99	9.70	1733.62	644.34	-681.27	54.61	683.45	175.42	2.59	SP	None
174	1906.10	28.13	177.76	8.80	1741.38	648.19	-685.42	54.76	687.60	175.43	0.40	SP	None
175	1916.30	27.95	174.66	10.20	1750.38	652.69	-690.20	55.08	692.39	175.44	4.39	SP	None
176	1926.10	27.53	174.84	9.80	1759.05	657.01	-694.74	55.50	696.95	175.43	1.36	SP	None
177	1935.70	28.00	174.84	9.60	1767.55	661.24	-699.19	55.90	701.42	175.43	1.52	SP	None
178	1945.00	28.10	173.89	9.30	1775.76	665.39	-703.55	56.33	705.80	175.42	1.52	SP	None
179	1954.80	28.48	171.96	9.80	1784.39	669.83	-708.15	56.90	710.44	175.41	3.07	SP	None
180	1964.30	28.43	170.86	9.50	1792.74	674.19	-712.63	57.58	714.95	175.38	1.69	SP	None

Seq # -	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/ 100f)	Srvy tool type	Tool Corr (deg)
181	1973.30	28.03	171.06	9.00	1800.67	678.30	-716.83	58.25	719.19	175.35	1.39	SP	None
182	1983.30	28.33	172.69	10.00	1809.48	682.84	-721.51	58.91	723.91	175.33	2.52	SP	None
183	2002.40	28.65	175.21	19.10	1826.27	691.50	-730.56	59.87	733.01	175.31	1.99	SP	None
184	2012.00	28.51	173.54	9.60	1834.70	695.86	-735.13	60.32	737.60	175.31	2.58	SP	None
185	2020.10	28.63	173.36	8.10	1841.82	699.55	-738.98	60.77	741.48	175.30	0.56	SP	None
186	2030.60	28.53	173.94	10.50	1851.04	704.34	-743.97	61.32	746.50	175.29	0.85	SP	None
187	2040.60	28.10	174.49	10.00	1859.84	708.84	-748.69	61.80	751.24	175.28	1.51	SP	None
188	2050.10	28.13	172.76	9.50	1868.22	713.11	-753.14	62.30	755.71	175.27	2.62	SP	None
189	2059.40	28.35	174.46	9.30	1876.41	717.30	-757.51	62.79	760.11	175.26	2.73	SP	None
190	2069.20	28.38	174.91	9.80	1885.04	721.71	-762.15	63.22	764.77	175.26	0.67	SP	None
191	2078.80	28.20	173.34	9.60	1893.49	726.03	-766.67	63.68	769.32	175.25	2.43	SP	None
192	2088.40	28.38	174.41	9.60	1901.94	730.36	-771.20	64.17	773.86	175.24	1.71	SP	None
193	2097.90	28.43	174.41	9.50	1910.30	734.64	-775.70	64.61	778.38	175.24	0.13	SP	None
194	2107.30	28.33	173.79	9.40	1918.57	738.89	-780.14	65.07	782.85	175.23	1.00	SP	None
195	2116.80	27.98	174.91	9.50	1926.95	743.14	-784.60	65.51	787.33	175.23	2.03	SP	None
196	2126.40	28.15	174.29	9.60	1935.42	747.42	-789.10	65.93	791.85	175.22	1.07	SP	None
197	2136.00	27.85	173.16	9.60	1943.89	751.71	-793.58	66.43	796.35	175.22	1.93	SP	None
198	2145.50	27.90	173.64	9.50	1952.29	755.95	-797.99	66.94	800.79	175.21	0.72	SP	None
199	2155.20	27.88	173.61	9.70	1960.86	760.27	-802.50	67.44	805.33	175.20	0.07	SP	None
200	2164.70	27.30	174.84	9.50	1969.28	764.45	-806.87	67.89	809.73	175.19	2.61	MWD_M	None
201	2174.30	27.53	176.01	9.60	1977.81	768.61	-811.28	68.24	814.14	175.19	1.85	SP	None
202	2183.80	27.75	174.06	9.50	1986.22	772.78	-815.67	68.62	818.55	175.19	2.99	SP	None
203	2193.50	27.60	173.81	9.70	1994.81	777.06	-820.15	69.10	823.05	175.18	0.60	SP	None
204	2202.90	27.68	175.66	9.40	2003.14	781.19	-824.49	69.49	827.41	175.18	2.79	SP	None
205	2212.40	27.68	177.74	9.50	2011.55	785.31	-828.89	69.75	831.82	175.19	3.10	SP	None
206	2222.00	27.60	176.96	9.60	2020.06	789.46	-833.34	69.95	836.27	175.20	1.17	SP	None
207	2231.40	27.43	177.46	9.40	2028.40	793.51	-837.68	70.17	840.61	175.21	0.95	SP	None
208	2241.10	27.43	178.56	9.70	2037.01	797.65	-842.14	70.32	845.07	175.23	1.59	SP	None
209	2250.70	27.18	177.09	9.60	2045.54	801.73	-846.54	70.49	849.47	175.24	2.28	SP	None
210	2260.10	27.55	178.09	9.40	2053.89	805.75	-850.86	70.67	853.79	175.25	1.93	SP	None

Seq # -	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/ 100f)	Srvy tool type	Tool Corr (deg)
211	2269.80	27.30	175.24	9.70	2062.50	809.92	-855.32	70.93	858.25	175.26	4.20	SP	None
212	2279.30	27.10	176.54	9.50	2070.95	814.00	-859.65	71.24	862.59	175.26	2.01	SP	None
213	2288.20	27.18	176.16	8.90	2078.87	817.81	-863.70	71.50	866.65	175.27	0.64	SP	None
214	2298.40	27.30	174.41	10.20	2087.94	822.21	-868.35	71.88	871.32	175.27	2.42	SP	None
215	2307.90	27.38	173.56	9.50	2096.38	826.36	-872.69	72.34	875.68	175.26	1.28	SP	None
216	2316.70	27.30	173.14	8.80	2104.19	830.22	-876.70	72.81	879.72	175.25	0.74	SP	None
217	2327.10	27.13	173.26	10.40	2113.44	834.76	-881.43	73.37	884.47	175.24	0.53	SP	None
218	2336.60	27.13	172.46	9.50	2121.90	838.90	-885.72	73.91	888.80	175.23	1.17	SP	None
219	2345.60	26.85	171.21	9.00	2129.92	842.83	-889.77	74.49	892.88	175.21	2.14	SP	None
220	2357.80	26.90	170.91	12.20	2140.80	848.16	-895.22	75.35	898.38	175.19	0.36	SP	None
221	2367.40	26.45	171.59	9.60	2149.38	852.31	-899.47	76.00	902.68	175.17	1.73	SP	None
222	2376.80	25.90	170.46	9.40	2157.81	856.32	-903.57	76.65	906.82	175.15	2.41	SP	None
223	2386.40	26.08	172.41	9.60	2166.44	860.37	-907.73	77.28	911.01	175.13	2.77	SP	None
224	2396.20	26.58	173.86	9.80	2175.22	864.52	-912.05	77.79	915.36	175.12	2.53	SP	None
225	2405.50	26.28	174.21	9.30	2183.55	868.46	-916.16	78.22	919.49	175.12	1.14	SP	None

Seq # -	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/ 100f)	Srvy tool type	Tool Corr (deg)
226	2415.10	25.83	173.31	9.60	2192.18	872.47	-920.35	78.68	923.71	175.11	1.88	SP	None
227	2424.50	25.89	172.93	9.40	2200.64	876.39	-924.42	79.17	927.81	175.10	0.57	SP	None
228	2433.80	25.86	172.77	9.30	2209.00	880.27	-928.45	79.68	931.86	175.09	0.25	SP	None
229	2443.80	25.90	172.76	10.00	2218.00	884.45	-932.78	80.23	936.22	175.08	0.12	SP	None
230	2453.30	25.65	172.41	9.50	2226.56	888.41	-936.88	80.76	940.35	175.07	0.94	SP	None
231	2462.40	25.60	173.46	9.10	2234.76	892.17	-940.78	81.25	944.28	175.06	1.53	SP	None
232	2472.40	25.60	174.24	10.00	2243.78	896.28	-945.08	81.71	948.60	175.06	1.03	SP	None
233	2481.90	25.78	173.96	9.50	2252.34	900.19	-949.17	82.13	952.72	175.05	0.67	SP	None
234	2491.40	25.93	173.54	9.50	2260.89	904.14	-953.29	82.58	956.86	175.05	0.76	SP	None
235	2501.10	26.10	171.34	9.70	2269.61	908.21	-957.51	83.14	961.11	175.04	3.08	SP	None
236	2510.70	26.10	171.56	9.60	2278.23	912.28	-961.68	83.77	965.32	175.02	0.31	SP	None
237	2520.00	26.23	169.89	9.30	2286.58	916.25	-965.73	84.43	969.41	175.00	2.46	SP	None
238	2529.60	26.15	171.81	9.60	2295.19	920.34	-969.91	85.11	973.64	174.99	2.72	SP	None
239	2539.30	25.95	171.04	9.70	2303.91	924.45	-974.12	85.74	977.89	174.97	1.23	SP	None
240	2548.60	25.98	169.41	9.30	2312.27	928.39	-978.14	86.43	981.95	174.95	2.34	SP	None

Seq # -	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/ 100f)	Srvy tool type	Tool Corr (deg)
241	2558.40	26.00	168.91	9.80	2321.08	932.57	-982.35	87.24	986.22	174.93	0.68	SP	None
242	2568.00	26.48	170.19	9.60	2329.69	936.70	-986.53	88.01	990.45	174.90	2.35	SP	None
243	2577.50	27.08	171.04	9.50	2338.17	940.84	-990.75	88.71	994.71	174.88	2.29	SP	None
244	2587.00	28.23	171.21	9.50	2346.58	945.09	-995.11	89.39	999.11	174.87	3.70	SP	None
245	2596.60	29.00	170.86	9.60	2355.01	949.53	-999.65	90.10	1003.70	174.85	2.50	SP	None
246	2606.00	29.85	169.56	9.40	2363.20	954.01	-1004.20	90.89	1008.30	174.83	3.45	SP	None
247	2615.70	28.98	168.09	9.70	2371.65	958.65	-1008.87	91.81	1013.04	174.80	3.55	SP	None
248	2626.80	28.35	165.26	11.10	2381.39	963.88	-1014.05	93.04	1018.31	174.76	4.11	SP	None
249	2636.20	28.70	162.91	9.40	2389.65	968.32	-1018.37	94.27	1022.72	174.71	3.81	SP	None
250	2645.70	30.68	160.19	9.50	2397.90	973.01	-1022.83	95.76	1027.30	174.65	7.66	SP	None
251	2655.40	31.20	157.64	9.70	2406.22	977.98	-1027.48	97.56	1032.10	174.58	4.44	SP	None
252	2664.60	31.50	155.89	9.20	2414.08	982.77	-1031.88	99.45	1036.66	174.50	3.18	SP	None
253	2674.50	30.40	157.39	9.90	2422.57	987.86	-1036.55	101.47	1041.50	174.41	4.14	SP	None
254	2683.60	29.73	154.16	9.10	2430.44	992.42	-1040.71	103.34	1045.82	174.33	5.85	SP	None
255	2692.70	29.35	152.94	9.10	2438.36	996.90	-1044.72	105.33	1050.02	174.24	2.40	SP	None
256	2702.70	29.95	150.09	10.00	2447.05	1001.83	-1049.07	107.69	1054.58	174.14	4.67	SP	None
257	2711.70	30.30	149.19	9.00	2454.84	1006.32	-1052.97	109.98	1058.69	174.04	1.94	SP	None
258	2721.90	31.73	146.44	10.20	2463.58	1011.52	-1057.41	112.78	1063.41	173.91	6.00	SP	None
259	2731.70	33.85	146.96	9.80	2471.82	1016.76	-1061.85	115.69	1068.13	173.78	6.65	SP	None
260	2740.90	35.88	146.31	9.20	2479.36	1021.95	-1066.24	118.59	1072.81	173.65	6.84	SP	None
261	2750.90	38.02	147.68	10.00	2487.36	1027.89	-1071.28	121.86	1078.19	173.51	6.99	SP	None
262	2759.90	40.90	147.79	9.00	2494.30	1033.55	-1076.12	124.91	1083.34	173.38	9.76	SP	None
263	2770.00	43.57	149.83	10.10	2501.78	1040.28	-1081.93	128.42	1089.52	173.23	9.06	SP	None
264	2779.00	45.26	150.86	9.00	2508.21	1046.55	-1087.40	131.54	1095.33	173.10	6.22	SP	None
265	2789.70	46.51	152.92	10.70	2515.66	1054.21	-1094.17	135.16	1102.49	172.96	5.52	SP	None
266	2799.20	48.87	154.61	9.50	2522.05	1061.23	-1100.48	138.26	1109.13	172.84	8.57	SP	None
267	2808.10	51.29	156.48	8.90	2527.76	1068.06	-1106.69	141.08	1115.65	172.73	9.63	SP	None
268	2817.60	54.75	155.84	9.50	2533.48	1075.65	-1113.63	144.15	1122.92	172.62	11.22	SP	None
269	2826.60	56.96	156.25	9.00	2538.53	1083.09	-1120.44	147.18	1130.06	172.52	7.57	SP	None
270	2836.30	58.82	154.94	9.70	2543.68	1091.31	-1127.92	150.57	1137.92	172.40	6.81	SP	None

Seq # -	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/ 100f)	Srvy tool type	Tool Corr (deg)
271	2845.70	58.43	154.26	9.40	2548.58	1099.33	-1135.17	154.01	1145.57	172.27	2.27	SP	None
272	2855.70	59.09	153.95	10.00	2553.77	1107.88	-1142.86	157.75	1153.69	172.14	2.17	SP	None
273	2864.60	60.51	154.75	8.90	2558.24	1115.57	-1149.79	161.08	1161.02	172.03	5.41	SP	None
274	2874.20	63.05	153.28	9.60	2562.78	1124.02	-1157.39	164.78	1169.07	171.90	9.05	SP	None
275	2884.40	65.01	155.49	10.20	2567.25	1133.19	-1165.66	168.75	1177.81	171.76	8.34	SP	None
276	2893.50	66.39	154.84	9.10	2570.99	1141.48	-1173.19	172.23	1185.76	171.65	5.03	SP	None
277	2921.50	69.91	155.80	28.00	2581.41	1167.46	-1196.80	183.08	1210.72	171.30	3.95	SP	None
278	2931.40	71.03	155.80	9.90	2584.72	1176.79	-1205.31	186.90	1219.72	171.19	3.45	SP	None
279	2941.30	71.55	155.72	9.90	2587.90	1186.17	-1213.86	190.75	1228.76	171.07	1.62	SP	None
280	2950.70	72.33	155.83	9.40	2590.81	1195.10	-1222.01	194.42	1237.38	170.96	2.55	SP	None
281	2959.60	73.46	154.72	8.90	2593.43	1203.61	-1229.74	197.98	1245.57	170.85	5.31	SP	None
282	2969.70	74.24	154.31	10.10	2596.24	1213.31	-1238.49	202.15	1254.88	170.73	2.65	SP	None
283	2979.10	75.84	153.37	9.40	2598.67	1222.38	-1246.64	206.16	1263.58	170.61	5.95	SP	None
284	2988.40	76.17	153.73	9.30	2600.91	1231.40	-1254.72	210.17	1272.21	170.49	1.57	SP	None
285	2998.00	76.03	151.71	9.60	2603.22	1240.70	-1263.01	214.45	1281.08	170.36	6.24	SP	None
286	3007.40	76.49	151.11	9.40	2605.45	1249.81	-1271.02	218.82	1289.72	170.23	2.41	SP	None
287	3017.10	77.46	150.61	9.70	2607.64	1259.22	-1279.28	223.42	1298.64	170.09	3.41	SP	None
288	3026.80	78.34	149.29	9.70	2609.67	1268.65	-1287.49	228.17	1307.55	169.95	4.91	SP	None
289	3036.60	79.14	148.09	9.80	2611.59	1278.19	-1295.70	233.16	1316.51	169.80	4.43	SP	None
290	3045.70	79.35	147.26	9.10	2613.28	1287.03	-1303.25	237.94	1324.80	169.65	2.82	SP	None
291	3055.70	79.70	146.23	10.00	2615.10	1296.74	-1311.48	243.33	1333.86	169.49	3.27	SP	None
292	3065.10	80.50	145.19	9.40	2616.72	1305.85	-1319.13	248.55	1342.34	169.33	4.21	SP	None
293	3074.40	81.13	144.60	9.30	2618.20	1314.86	-1326.64	253.83	1350.70	169.17	2.81	SP	None
294	3084.10	81.72	143.34	9.70	2619.65	1324.24	-1334.39	259.47	1359.39	169.00	4.33	SP	None
295	3093.80	82.27	142.15	9.70	2621.00	1333.60	-1342.04	265.29	1368.01	168.82	4.09	SP	None
296	3102.90	81.85	142.63	9.10	2622.26	1342.36	-1349.18	270.79	1376.08	168.65	2.12	SP	None
297	3112.90	82.06	141.49	10.00	2623.66	1351.97	-1356.99	276.87	1384.95	168.47	3.50	SP	None
298	3122.40	82.47	141.17	9.50	2624.94	1361.08	-1364.34	282.76	1393.33	168.29	1.66	SP	None
299	3131.60	83.10	140.09	9.20	2626.09	1369.88	-1371.39	288.55	1401.42	168.12	4.12	SP	None
300	3141.50	83.72	139.52	9.90	2627.23	1379.33	-1378.90	294.89	1410.09	167.93	2.59	SP	None

Seq # -	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/ 100f)	Srvy tool type	Tool Corr (deg)
301	3151.10	85.27	139.08	9.60	2628.15	1388.49	-1386.15	301.12	1418.48	167.74	5.11	SP	None
302	3160.70	85.44	137.76	9.60	2628.93	1397.61	-1393.31	307.47	1426.83	167.56	4.21	SP	None
303	3170.30	85.54	135.98	9.60	2629.68	1406.65	-1400.29	314.02	1435.07	167.36	5.64	SP	None
304	3179.80	85.95	135.29	9.50	2630.39	1415.54	-1407.06	320.64	1443.13	167.16	2.57	SP	None
305	3189.20	86.71	134.60	9.40	2630.99	1424.30	-1413.69	327.28	1451.08	166.97	3.33	SP	None
306	3199.00	87.67	133.98	9.80	2631.47	1433.39	-1420.52	334.29	1459.33	166.76	3.55	SP	None
307	3208.50	89.14	133.04	9.50	2631.73	1442.17	-1427.06	341.17	1467.28	166.55	5.60	SP	None
308	3218.20	89.86	131.41	9.70	2631.82	1451.05	-1433.58	348.36	1475.30	166.34	5.60	SP	None
309	3227.80	90.34	130.88	9.60	2631.80	1459.77	-1439.90	355.59	1483.15	166.13	2.27	SP	None
310	3237.30	89.76	132.11	9.50	2631.79	1468.42	-1446.19	362.70	1490.98	165.92	4.36	SP	None
311	3246.70	90.03	130.57	9.40	2631.81	1476.96	-1452.40	369.76	1498.73	165.72	5.07	SP	None
312	3256.60	90.03	131.32	9.90	2631.80	1485.94	-1458.89	377.24	1506.87	165.50	2.31	SP	None
313	3266.10	90.31	130.37	9.50	2631.78	1494.54	-1465.10	384.42	1514.70	165.30	3.18	SP	None
314	3275.50	90.38	130.40	9.40	2631.72	1503.02	-1471.19	391.58	1522.41	165.10	0.25	MWD_M	None
315	3294.80	88.15	128.00	19.30	2631.97	1520.25	-1483.39	406.54	1538.09	164.67	5.17	SP	None
316	3304.30	88.36	126.82	9.50	2632.26	1528.59	-1489.16	414.08	1545.65	164.46	3.84	SP	None
317	3314.10	88.35	126.73	9.80	2632.54	1537.15	-1495.02	421.92	1553.42	164.24	0.28	SP	None
318	3323.60	88.60	127.23	9.50	2632.79	1545.46	-1500.73	429.51	1560.99	164.03	1.79	SP	None
319	3333.10	88.56	126.91	9.50	2633.03	1553.77	-1506.46	437.09	1568.59	163.82	1.03	SP	None
320	3343.30	88.46	127.25	10.20	2633.29	1562.70	-1512.60	445.22	1576.77	163.60	1.06	SP	None
321	3352.90	88.77	126.15	9.60	2633.52	1571.08	-1518.34	452.92	1584.45	163.39	3.63	MWD_M	None
322	3362.30	88.36	126.99	9.40	2633.76	1579.27	-1523.94	460.47	1591.99	163.19	3.03	SP	None
323	3371.80	88.18	127.14	9.50	2634.05	1587.58	-1529.66	468.04	1599.67	162.99	0.75	SP	None
324	3381.50	88.53	124.49	9.70	2634.32	1595.97	-1535.34	475.90	1607.40	162.78	8.40	SP	None
325	3390.20	88.12	125.36	8.70	2634.58	1603.42	-1540.31	483.03	1614.28	162.59	3.37	SP	None
326	3400.50	87.53	125.86	10.30	2634.97	1612.30	-1546.31	491.40	1622.51	162.37	2.29	SP	None
327	3410.40	87.91	125.43	9.90	2635.36	1620.84	-1552.07	499.44	1630.45	162.16	1.77	SP	None
328	3420.00	87.67	126.28	9.60	2635.73	1629.15	-1557.69	507.22	1638.19	161.96	2.80	SP	None
329	3429.50	87.19	127.10	9.50	2636.16	1637.43	-1563.36	514.83	1645.95	161.77	3.05	SP	None
330	3439.30	87.71	127.10	9.80	2636.59	1646.00	-1569.27	522.63	1654.01	161.58	1.62	SP	None

Seq # -	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/ 100f)	Srvy tool type	Tool Corr (deg)
331	3448.50	88.18	128.12	9.20	2636.92	1654.09	-1574.88	529.92	1661.64	161.40	3.72	SP	None
332	3458.40	89.42	127.58	9.90	2637.13	1662.83	-1580.95	537.73	1669.90	161.22	4.16	SP	None
333	3467.90	89.62	126.67	9.50	2637.21	1671.15	-1586.68	545.31	1677.77	161.03	2.99	SP	None
334	3478.00	89.28	124.96	10.10	2637.31	1679.88	-1592.59	553.50	1686.03	160.84	5.29	SP	None
335	3487.60	88.25	124.87	9.60	2637.52	1688.11	-1598.09	561.37	1693.82	160.64	3.28	SP	None
336	3497.10	88.08	124.54	9.50	2637.82	1696.23	-1603.49	569.17	1701.51	160.46	1.19	SP	None
337	3506.60	87.70	126.16	9.50	2638.17	1704.40	-1608.98	576.92	1709.29	160.27	5.34	SP	None
338	3516.20	87.67	126.10	9.60	2638.56	1712.72	-1614.64	584.66	1717.23	160.09	0.21	SP	None
339	3525.80	88.77	125.93	9.60	2638.86	1721.04	-1620.28	592.43	1725.19	159.92	3.53	SP	None
340	3535.20	89.14	125.18	9.40	2639.03	1729.15	-1625.75	600.07	1732.96	159.74	2.71	SP	None
341	3545.10	89.42	126.21	9.90	2639.15	1737.70	-1631.52	608.11	1741.17	159.56	3.29	SP	None
342	3554.50	89.69	125.13	9.40	2639.22	1745.82	-1637.00	615.75	1748.98	159.39	3.61	SP	None
343	3563.90	89.49	126.78	9.40	2639.29	1753.96	-1642.52	623.36	1756.83	159.22	5.39	SP	None
344	3573.80	88.97	126.23	9.90	2639.42	1762.58	-1648.41	631.31	1765.17	159.04	2.33	SP	None
345	3583.40	88.53	126.65	9.60	2639.63	1770.93	-1654.11	639.03	1773.26	158.88	1.93	SP	None
346	3592.80	88.29	127.55	9.40	2639.89	1779.16	-1659.78	646.53	1781.25	158.72	3.02	SP	None
347	3602.50	88.08	127.94	9.70	2640.20	1787.71	-1665.72	654.19	1789.57	158.56	1.39	SP	None
348	3612.20	88.42	129.26	9.70	2640.50	1796.32	-1671.76	661.77	1797.98	158.40	4.28	SP	None
349	3621.70	88.97	128.37	9.50	2640.71	1804.77	-1677.72	669.17	1806.25	158.26	3.96	SP	None
350	3631.60	89.11	129.16	9.90	2640.88	1813.58	-1683.91	676.89	1814.87	158.10	2.47	SP	None
351	3641.00	89.38	129.21	9.40	2641.00	1821.97	-1689.85	684.17	1823.10	157.96	0.89	SP	None
352	3650.80	89.93	129.13	9.80	2641.06	1830.72	-1696.04	691.77	1831.70	157.81	1.73	SP	None
353	3660.30	89.79	127.17	9.50	2641.09	1839.12	-1701.91	699.24	1839.96	157.66	6.30	SP	None
354	3670.00	88.97	125.74	9.70	2641.19	1847.57	-1707.67	707.04	1848.26	157.51	5.18	SP	None
355	3682.80	87.57	124.73	12.80	2641.58	1858.57	-1715.06	717.49	1859.09	157.30	4.11	SP	None

Company: Chevron Canada Resources

Well: Chevron et al Liard

Field: LIARD

Rig: Akita 48E

Province: Northwest Territories

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