



Baker Atlas

TRUE VERTICAL LOG SPECTRALOG

NEBCOPY

FILE NO:	COMPANY	PARAMOUNT RESOURCES LTD.
API NO:	WELL	PARAMOUNT ET AL LIARD K-29A
	FIELD	FORT LIARD
	PROVINCE	NORTHWEST TERRITORIES
Ver. 3.87	LOCATION:	OTHER SERVICES
UML:	LIC#: 1125	ZUL-ON-GR
300K296030123303	RIG: AKITA 58	XMAC-GR
	GRID: 60-30-123-30	HDIP/CBIL
		DSL
PERMANENT DATUM	G.L.	ELEVATION
LOG MEASURED FROM	K.B.	409.6 M
DRILL MEAS. FROM	6.8 M	ABOVE P.D.
	KELLY BUSHING	KB 416.4 M
		DF
		GL 409.6 M
DATE	16-OCT-2005	TVD
RUN	TRIP	
SERVICE ORDER	203169	203169
DEPTH DRILLER	3620 M	2682.5 M
DEPTH LOGGER	3618.2 M	2681.7 M
BOTTOM LOGGED INTERVAL	3580 M	2675 M
TOP LOGGED INTERVAL	2480 M	2403 M
CASING DRILLER	177.8 MM	177.8 MM
CASING LOGGER	2568 M	2464.7 M
BIT SIZE	156 MM	
TYPE OF FLUID IN HOLE	GELCHEM	
DENSITY	VISCOSITY	38 S
PH	FLUID LOSS	9.1 C3
SOURCE OF SAMPLE	FLOWLINE	
RM AT MEAS. TEMP.	1.89 OHMM	20.5 DEGC
RM AT MEAS. TEMP.	1.84 OHMM	20.5 DEGC
RM AT MEAS. TEMP.	2.15 OHMM	20.5 DEGC
SOURCE OF RMF	MEAS	
RM AT BHT	0.47 OHMM	145.4 DEGC
TIME SINCE CIRCULATION	29.25	
MAX. RECORDED TEMP.	145.4 DEGC	
EQUIP. NO.	LOCATION	G. PRAIRIE
RECORDED BY	D. BUSKER / T. FISHER	
WITNESSED BY	K. ROBERTSON	

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT. BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

REMARKS

RUN 2 TRIP 1 : LOG RECORDED VIA PIPE CONVEYED WITH THE NAUTILUS HITEMP HDIL/XMAC/DEN/CN/DSL IN A HIGH RESOLUTION MODE ON A DOWNLOG AND AN UPLOG. THE DOWNLOG WAS RECORDED AS A GRANDSLAM WITH AN XMAX IN THE MONOPOLE/DIPOLE SETTING AND THE UPLOG AS A GRANDSLAM AND XMAC IN A X-DIPOLE MODE. NO CALIPER COULD BE RUN WITH THE NAUTILUS DENSITY DUE TO HIGH ANGLE. SPIKES ON GR ARE CREATED NOW & THEN DUE TO MAKING A PIPE CONNECTION.

LOST COMMUNICATION WITH TOOL STRING AT 2850 M WHILE COMING UP WITH MAIN PASS DUE TO LINE GETTING KINKED. AFTER CORRECTING PROBLEM, MADE ANOTHER RUN IN THE HOLE TO LOG SECTION MISSED. BOTH LOGS WERE SPLICED TOGETHER FOR FINAL PRESENTATION. USED DOWN LOG AS REPEAT PASS. REMOVED 10 INCH CURVE TO IMPROVE LOG QUALITY

CIRCULATION STOPPED @ 1430 13-OCT-05.
MAX DEVIATION = 84.8 DEGS.
LOG WAS TIED INTO RUN 1 DATED 21-SEP-05.

RUN 2 TRIP 1 :

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
2	1	SWVL	3944XC	094415	FREE
2	1	PWRSUB	4430XB	368992	FREE
2	1	TTRM	3981XA	10080042	FREE
2	1	COMR	3514XA	10051809	FREE
2	1	GR	1329XA	172708	DECENT
2	1	CN	2447XA	10040679	DECENT
2	1	DEN	2233XA	10077790	DECENT
2	1	DEN	2233XA	10129053	DECENT
2	1	XMAC	1867FA	119772	CENT
2	1	XMAC	1878WA	188383	CENT
2	1	XMAC	1878PB	10141932	CENT
2	1	XMAC	1868BA	154071	CENT
2	1	HDIL	1515FA	10084999	38MM S.O.
2	1	HDIL	1515WA	10084999	38MM S.O.

INSTRUMENT CONFIGURATION

Source File: /data/pass/paramount_liard/t_xdl-tdg

PIPE CONVEYANCE

Series : CABLPCL
Mnemonic : PCL
Diameter : 5.00"
Weight : 45.5 kg
Length : 231.8 cm

DOWNHOLE POWER ADAPTER

Series : 4430XB
Mnemonic : DHPA
Diameter : 3.82"
Weight : 36.4 kg
Length : 180.5 cm

SWIVEL

Series : 3944XD
Mnemonic : SWVL
Diameter : 3.50"
Weight : 29.5 kg
Length : 106.7 cm

HP TTRM SUB

Series : 3981XA
Mnemonic : TTRM
Diameter : 3.63"
Weight : 36.4 kg
Length : 116.8 cm
Measure Point: 42.2 cm: TEMP MP
Measure Point: 34.5 cm: RM MP

HT/HP WTS COMMON REMOTE

Series : 3514XA
Mnemonic : WTS
Diameter : 4.17"
Weight : 126.8 kg
Length : 276.9 cm

HT/HP DIGITAL SPECTRALOG

Series : 1329XA
Mnemonic : DSL
Diameter : 4.17"
Weight : 126.8 kg
Length : 281.9 cm
Measure Point: 79.2 cm: GR MP

47.73 m

TEMP MP 42.00 m
RM MP 41.92 m

GR MP 36.78 m

NAUTILUS COMPENSATED NEUTRON

Series : 2447XA
Mnemonic : CN
Diameter : 4.17"
Weight : 118.9 kg
Length : 285.2 cm
Source Type : N/A
Strength : N/A
Measure Point: 80.3 cm: LSN MP
Measure Point: 88.1 cm: SSN MP

LSN MP — 33.94 m
SSN MP — 33.82 m

TOOL TURNER

Series : N/A
Mnemonic : N/A
Diameter : 3.63"
Weight : 11.4 kg
Length : 83.5 cm

NAUTILUS SLICK DENSITY ELECTRONICS

Series : 2233EA
Mnemonic : HTD
Diameter : 4.18"
Weight : 97.7 kg
Length : 281.7 cm

NAUTILUS SLICK DENSITY MANDREL

Series : 2233MA
Mnemonic : HTD
Diameter : 4.18"
Weight : 97.7 kg
Length : 287.0 cm
Source Type : N/A
Strength : N/A
Measure Point: 109.5 cm: LSD MP
Measure Point: 96.5 cm: SSD MP

LSD MP — 28.11 m
SSD MP — 27.98 m

HT/HP DIGITAL ORIENTATION

Series : 4401XB
Mnemonic : ORIT
Diameter : 3.88"
Weight : 140.9 kg
Length : 388.6 cm
Measure Point: 6.6 cm: ORIENT MP

ORIENT MP — 23.19 m

HT/HP ARRAY ACOUSTIC LOG ELECTRONICS

Series : 1867EA
Mnemonic : XMAC
Diameter : 3.63"
Weight : 118.4 kg
Length : 297.2 cm

HT/HP CROSS MULTIPOLE ARRAY ACOUSTIC LOG

Series : 1878MA
Mnemonic : XMAC
Diameter : 3.88"
Weight : 180.2 kg
Length : 431.8 cm
Measure Point: 187.6 cm: R8
Measure Point: 152.4 cm: R7
Measure Point: 137.2 cm: R6
Measure Point: 121.9 cm: R5
Measure Point: 106.7 cm: R4
Measure Point: 91.4 cm: R3
Measure Point: 76.2 cm: R2
Measure Point: 61.0 cm: R1

R8 — 17.51 m
R7 — 17.36 m
R6 — 17.21 m
R5 — 17.06 m
R4 — 16.91 m
R3 — 16.75 m
R2 — 16.60 m
R1 — 16.45 m

SHEAR WAVE ACOUSTIC LOG

Series : 1878PB
Mnemonic : XMAC
Diameter : 3.63"
Weight : 81.4 kg
Length : 152.4 cm

MONOPOLE T2 MP — 13.86 m
DIPOLE T4 MP — 13.63 m
DIPOLE T3 MP — 13.32 m
MONOPOLE T1 MP — 13.10 m

HP/HT MULTI-POLE ARRAY ACOUSTIC

Series : 1868BA
Mnemonic : MAC
Diameter : 3.62"
Weight : 79.5 kg
Length : 210.8 cm
Measure Point: 185.1 cm: MONOPOLE T2 MP
Measure Point: 142.2 cm: DIPOLE T4 MP
Measure Point: 111.8 cm: DIPOLE T3 MP
Measure Point: 88.9 cm: MONOPOLE T1 MP

HT/HP MULTI-POLE ARRAY ACOUSTIC

Series : 1888FA
Mnemonic : WAC
Diameter : 3.88"
Weight : 70.5 kg
Length : 190.5 cm

HP/HT HIGH DEFINITION INDUCTION TOOL

Series : 1515XA
Mnemonic : HDIL
Diameter : 4.17"
Weight : 200.5 kg
Length : 1030.2 cm
Measure Point: 557.3 cm: RXC6 MP
Measure Point: 310.9 cm: XMTR MP

BULL PLUG 3 1/8

TOTAL LENGTH: 47.80 m
TOTAL WEIGHT: 1585.0 kg
MAX DIAMETER: 0'5.00"

RXC6 MP 5.57 m

XMTR MP 3.11 m

0.00 m

MAIN LOG - TRUE VERTICAL DEPTH

eXpress Unknown eXpress 3.1 last updated 28Sep2005 17:22 Sep 28, 2005 Cplot 8.1 Sun Oct 23 13:58:21 2005
Updates: 1 Perpl /main/61 Fai_Cpp /main/16 Fileview 4.34

CURVE DESCRIPTION REPORT

CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:CHTQH	CHT.H	Oct 21 02:15:29 2005	CABLE HEAD TENSION
F1:GR	GR	Oct 21 02:15:30 2005	GAMMA RAY
F1:KTHQH	KTH.H	Oct 21 02:15:31 2005	STRIPPED POTASSIUM-THORIUM
F1:MMRK	MMRK	Oct 21 02:15:32 2005	MINUTE MARK
F1:TEN	TEN	Oct 21 02:15:35 2005	DIFFERENTIAL TENSION
F1:THQH	TH.H	Oct 21 02:15:35 2005	THORIUM CONCENTRATION
F1:UQH	U.H	Oct 21 02:15:35 2005	URANIUM CONTENT

CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
CHTQH	0.00	GRQH	36.77	TEN	0.00	UQH	36.77
GR	36.77	KTHQH	36.77	THQH	36.77		

Project : /data/ddc/203169
User : todicos
Presentation : calsunsv2:/data/ddc/203169/tsl_main.pdf [1:240 Scale]
Plot Interval : 2390 - 2685 Meters

Data File 1 : F1 : calsunsv2:/data/ddc/203169/allcov.xtf
Created On : Oct 21 02:15:28 2005
Company : PARAMOUNT RESOURCES LTD
Well : PARAMOUNT ET AL LIARD K-29A
Field : FORT LIARD
File Interval : 2378.74 - 2681.78 Meters
Oct : 187ba

GR BACKUP

GR BACKUP

GAMMA RAY [gr]

(gAPI)

GAMMA RAY [gr.h]

(gAPI)

KTH [kth.h]

(gAPI)

MINUTE MARK

METERS

2400

TVD

TOOL STICKING

DIFF. TENSION [ten]

(kgf)

URANIUM [u.h]

(ppm)

THORIUM [th.h]

(ppm)

CH-TENSION [cht]

(kgf)

GRQH

GR

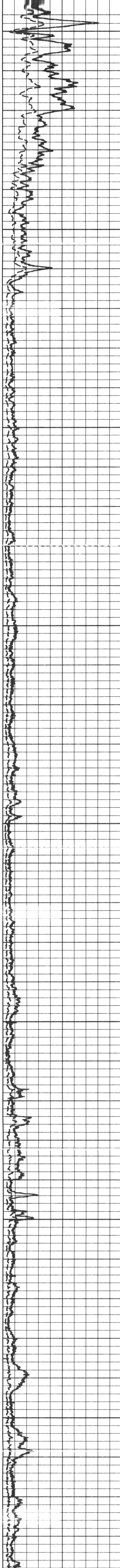
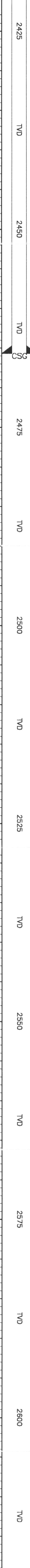
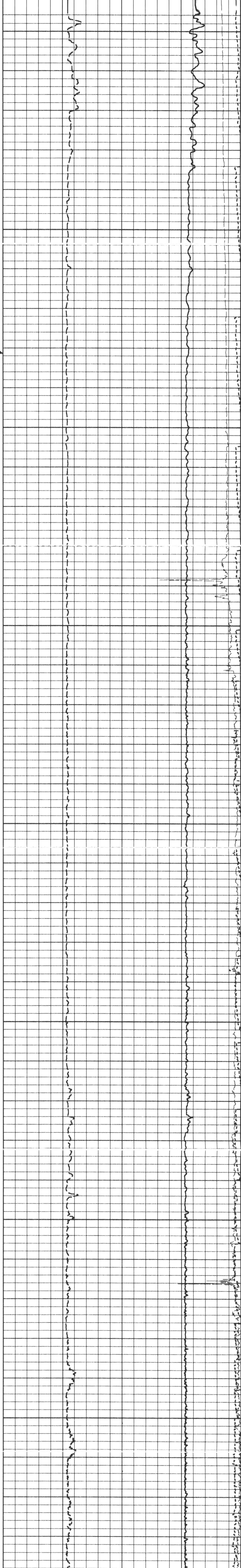
KTHQH

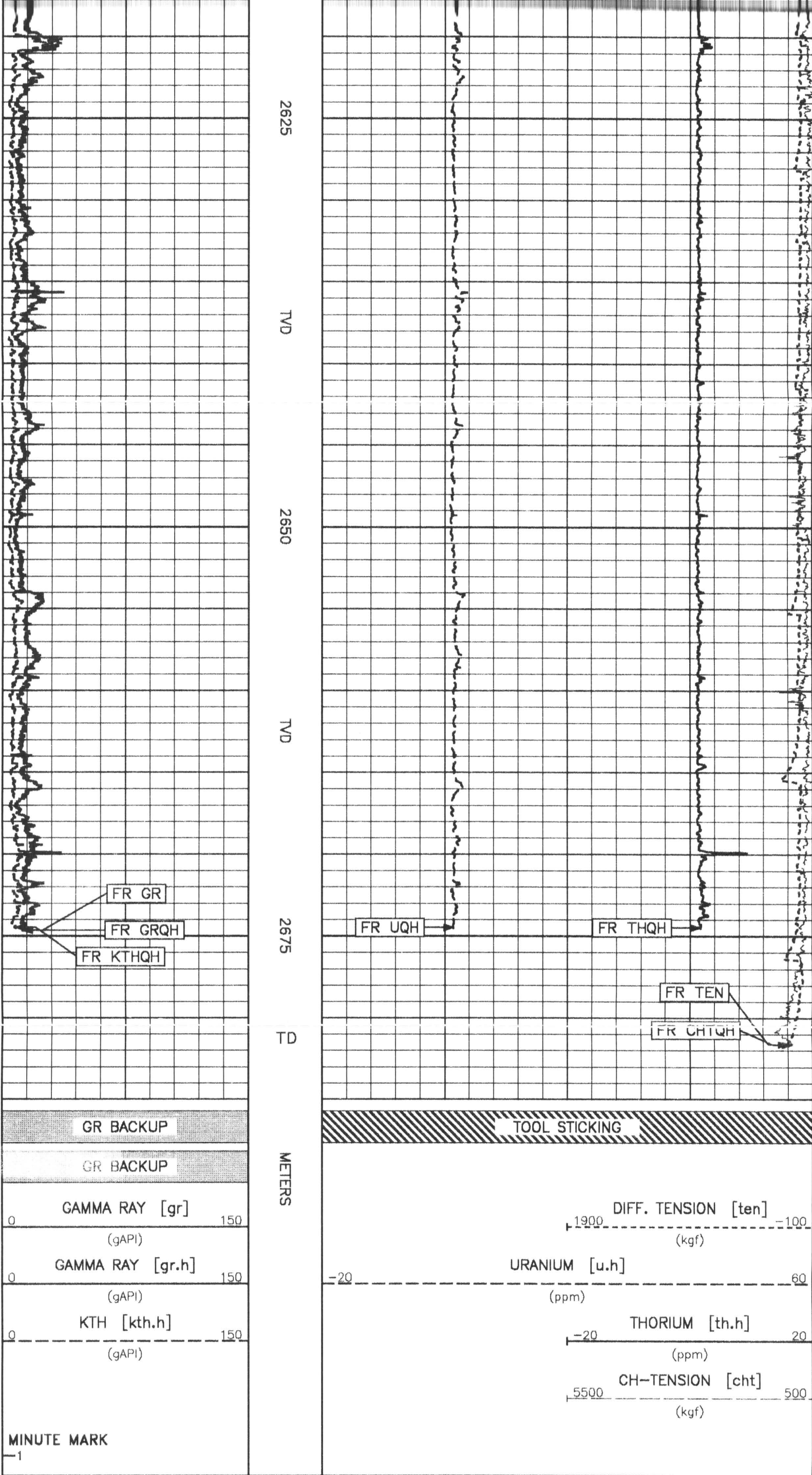
UQH

THQH

CHTQH

TEN





DIRECTIONAL SURVEY

Source File: /data/pass/paramount_lard/t_tvds.TXT

Measured Depth Meters	Angle Deg	Incl Direction Deg	Drift Depth	TRUE Vertical
1854	4.5	69.48	1847.33	
1864.37	6.9	45.6	1857.65	
1874.77	9.3	37.3	1867.95	
1881.5	11.7	26	1874.56	
1890.96	14.1	31	1883.78	
1900.35	15.7	33.6	1892.86	
1909.85	17.4	32.3	1901.96	
1919.42	19.5	30.2	1911.04	
1928.93	21.8	27	1919.94	
1938.53	23.9	22.8	1928.79	
1948.15	26.4	21.7	1937.49	
1957.62	28.7	21.2	1945.89	
1967.14	29.9	20.5	1954.19	
1976.74	30.5	20.1	1962.49	
1986.09	29.4	17.8	1970.59	
1995.43	28.2	14.6	1978.78	
2004.94	27.9	13.2	1987.17	
2014.44	27.7	13	1995.57	
2023.94	27	12	2004.01	
2033.56	26.6	11.3	2012.6	
2042.92	27.3	10.1	2020.94	
2052.35	28	9.4	2029.29	
2061.84	28.3	10.2	2037.66	
2071.51	28.4	12.3	2046.17	
2081.06	29.2	14	2054.54	
2090.59	29	15.8	2062.87	
2099.43	28.4	17.8	2070.62	
2109.43	28.3	17.3	2079.42	
2119.14	28.5	17.6	2087.96	
2128.8	28.6	17.5	2096.45	
2138.25	28.4	16.6	2104.75	
2147.92	28	14.6	2113.28	
2157.55	27.5	13.6	2121.8	
2167.1	26.6	12.1	2130.3	
2176.71	26.6	11	2138.9	
2186.18	26.2	10.4	2147.38	
2195.83	25.4	9.8	2156.07	
2205.31	25.1	14	2164.64	
2214.96	26.1	16.6	2173.34	
2224.47	26.6	19.3	2181.87	
2233.7	27.7	20.2	2190.08	
2243.31	29.5	21.8	2198.52	
2252.79	31.4	19.7	2206.69	
2262.33	32.4	18	2214.79	
2271.82	32.9	17	2222.78	
2281.47	33.8	15.4	2230.84	
2290.81	34.6	14.3	2238.57	
2300.2	32.4	13.3	2246.39	
2309.78	31	9	2254.55	
2319.35	29.9	7.5	2262.8	
2328.9	28.6	7.2	2271.13	
2338.32	27.4	3.4	2279.45	
2346.73	27.2	359.5	2286.92	
2356.12	27.8	355.2	2295.25	
2365.7	28.8	352.2	2303.69	
2375.27	28.3	347.9	2312.09	
2384.82	28.3	345.1	2320.5	
2394.24	28.6	343.6	2328.78	
2403.83	28.9	342.7	2337.19	
2413.35	28.2	341.1	2345.55	
2422.89	27.9	340.6	2353.97	
2432.5	28.3	341.8	2362.45	
2442.02	29.3	341.8	2370.79	
2451.41	30.4	340.7	2378.94	
2461.05	31.5	338.8	2387.21	
2470.5	33.3	336.5	2395.18	
2480.26	35.6	336.2	2403.23	
2489.72	37.7	336.4	2410.82	
2499.08	38.9	334	2418.17	
2508.5	40.1	333.2	2425.44	
2517.9	41.8	333.1	2432.53	
2527.39	43.9	333.4	2439.49	
2536.72	46.4	332.4	2446.07	
2546.31	48.1	331.3	2452.58	
2550	48.9	331.3	2455.03	
2569.72	53.3	328	2467.41	
2579.26	57.6	326.9	2472.82	
2589.03	61.2	325.1	2477.79	
2598.57	62.2	326.1	2482.31	
2608.11	63	324.2	2486.7	
2617.74	66	322.3	2490.85	
2627.05	69	321.6	2494.41	
2636.8	70.2	320.4	2497.81	
2646.03	73.1	318.5	2500.72	
2655.53	77.4	318.5	2503.13	
2665.12	78.4	318.8	2505.14	
2674.73	77.8	318.9	2507.13	
2684.19	77.2	312.8	2509.17	
2693.39	77.5	309.2	2511.19	
2702.74	77.6	306.9	2513.21	
2712.23	76.9	304.1	2515.3	
2721.71	75.8	301.5	2517.54	
2731.16	74.1	300.7	2519.89	
2740.76	73.9	300.2	2522.64	
2750.12	75	300	2525.15	

2759.62	75.2	300.2	2527.59
2769.03	74.1	300.7	2530.08
2778.55	73.9	300.6	2532.71
2788.15	73.7	300.8	2535.38
2797.77	73.3	300.7	2538.12
2807.33	73	301.2	2540.89
2817.02	72.5	301.1	2543.76
2826.57	71.7	301.7	2546.7
2836.08	72.2	301.7	2549.64
2845.75	73.4	302.1	2552.5
2855.27	73.3	302.7	2555.23
2864.61	72.9	302.2	2557.94
2874.14	72.5	302.6	2560.78
2883.64	72.5	302.3	2563.64
2893.26	73.4	303	2566.46
2902.71	73.3	303.4	2569.16
2912.19	72.6	303.3	2571.94
2921.66	73	305.1	2574.74
2931.04	75.2	306.4	2577.31
2940.48	77.7	306.5	2579.53
2950.04	79.8	309.5	2581.39
2959.55	81.5	308.5	2582.94
2969.14	81.4	308.7	2584.36
2978.67	80.7	308.7	2585.84
2988.02	79.5	308.7	2587.45
2997.57	80.3	309.4	2589.13
3007.14	81.4	309.8	2590.65
3016.72	81	310.2	2592.11
3026.12	81.9	309.6	2593.51
3035.68	81.8	311.6	2594.87
3045.21	83.4	311.4	2596.09
3054.77	83	312.3	2597.23
3064.69	82.6	310.1	2598.47
3074	83.1	310.6	2599.63
3083.8	83.4	310.4	2600.78
3093.59	83.6	310.3	2601.89
3103.37	84.1	309	2602.94
3113.19	84.3	308.7	2603.93
3122.95	84.4	308.2	2604.89
3132.68	84.6	308.4	2605.82
3142.45	84.8	307.8	2606.72
3152.01	84.6	307.7	2607.61
3161.56	83.9	308.3	2608.56
3171.17	82.4	308.3	2609.71
3180.88	82	308.2	2611.03
3190.19	81.8	307.5	2612.34
3199.74	81.9	307.5	2613.69
3208.99	82.6	307.4	2614.94
3218.1	83	307.2	2616.08
3227.82	83.2	306.9	2617.25
3237.36	82.4	306.7	2618.45
3247.13	82.7	307	2619.71
3256.67	83	306.6	2620.9
3266.21	81.2	306.3	2622.21
3275.84	81	305.2	2623.7
3285.37	81.3	304.5	2625.17
3295.12	81.5	305.7	2626.63
3304.35	81.1	307.4	2628.02
3313.85	81.3	306.7	2629.48
3323.44	81	308.7	2630.95
3333.05	81	308.2	2632.45
3342.51	81.5	308	2633.89
3351.71	81.1	308.4	2635.29
3361.06	81.5	308.4	2636.7
3370.55	81	307.6	2638.14
3380.03	80.2	308.4	2639.69
3389.98	80.6	307.8	2641.35
3398.84	80.7	307.7	2642.79
3408.44	81	307.1	2644.32
3417.94	81	306.7	2645.8
3427.35	81	307.4	2647.28
3436.87	80.3	307.7	2648.82
3451.35	80.4	306.3	2651.25
3460.95	80.7	308	2652.83
3470.57	80.7	308.5	2654.38
3480.13	80.6	308.1	2655.93
3489.82	81	308.1	2657.48
3499.37	79.5	309.2	2659.1
3508.88	79.4	309	2660.64
3518.55	79.2	309.2	2662.64
3528.07	78.9	309	2664.44
3537.41	78.8	308.7	2666.25
3546.94	79	308.4	2668.09

	COMPANY <u>PARAMOUNT RESOURCES LTD.</u> WELL <u>PARAMOUNT ET AL LIARD K-29A</u> FIELD <u>FORT LIARD</u> PROVINCE <u>NORTHWEST TERRITORIES</u>		FILE NO: _____ API NO: _____
	LOCATION: LIC#: 1125 RIG: AKITA 58 GRID: 60-30-123-30	ELEVATIONS: KB 416.4 M DF GL 409.6 M DATE 16-OCT-2005	UWI: 300K296030123303