BAKER HUGHES

Baker Atlas

SPECTRALOG®

NEB COPY

FILE NO:	
API NO:	
COMPANY	PARAMOUNT RESOURCES LTD.
WELL	PARAMOUNT ET AL LIARD K-29A
FIELD	FORT LIARD
PROVINCE	NORTHWEST TERRITORIES

Ver. 3.87
UWI:
300K296030123303

LOCATION:
LIC#: 1125
RIG: AKITA 58

GRID: 60-30-123-30

OTHER SERVICES
XMAC-GR
HDIL-GR
HDIP/CBIL

PERMANENT DATUM	G.L.	ELEVATION	409.6 M
LOG MEASURED FROM	K.B.	6.8 M	ABOVE P.D.
DRILL. MEAS. FROM	KELLY BUSHING		

ELEVATIONS:
KB 416.4 M
DF
GL 409.6 M

DATE		16-OCT-2005			
RUN	TRIP	2	1		
SERVICE ORDER		203169			
DEPTH DRILLER		3620 M			
DEPTH LOGGER		3618.2 M			
BOTTOM LOGGED INTERVAL		3580.0 M			
TOP LOGGED INTERVAL		2480 M			
CASING DRILLER		177.8 MM	@2567 M	@	
CASING LOGGER		2568 M			
BIT SIZE		156 MM			
TYPE OF FLUID IN HOLE		GELCHEM			
DENSITY	VISCOSITY	1070 G/C3	38 S		
PH	FLUID LOSS	10.5	9.1 C3		
SOURCE OF SAMPLE		FLOWLINE			
RM AT MEAS. TEMP.		1.89 OHMM	@20.5 DEGC	@	
RMF AT MEAS. TEMP.		1.84 OHMM	@20.5 DEGC	@	
RMC AT MEAS. TEMP.		2.15 OHMM	@20.5 DEGC	@	
SOURCE OF RMF	RMC	MEAS	MEAS		
RM AT BHT		0.47 OHMM	@145.4 DEGC	@	
TIME SINCE CIRCULATION		29.25			
MAX. RECORDED TEMP.		145.4 DEGC			
EQUIP. NO.	LOCATION	E6544	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.
NO PE IS AVAILABLE WITH THE NAUTILUS DENSITY.
SPIKES ON GR,CN, & DEN 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.

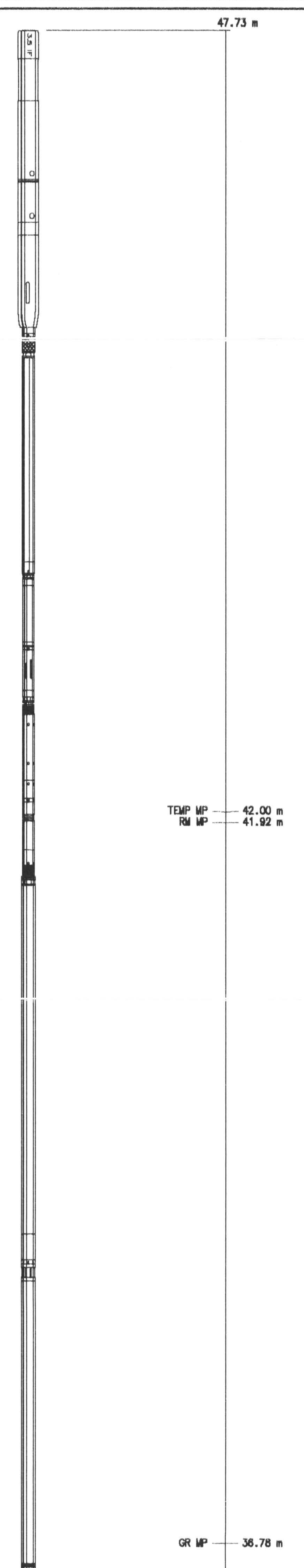
CIRCULATION STOPPED @ 1430 13-OCT-05.
MAX DEVIATION = 84.8 DEGS.
LOG WAS TIED INTO RUN 1 DATED 21-SEP-05.

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
2	1	SWVL	3944XC	094415	FREE
2	1	PWRSUB	4430XB	369992	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	[illegible]	[illegible]	DECENT
2	1	DEN	2233MA	10129053	DECENT
2	1	XMAC	1667EA	119772	CENT
2	1	XMAC	1678MA	188383	CENT
2	1	XMAC	1678PB	10141932	CENT
2	1	XMAC	1668BA	154071	CENT
2	1	HDIL	1515EA	10064999	38MM S.O.
2	1	HDIL	1515MA	10064999	38MM S.O.

INSTRUMENT CONFIGURATION

Source File: /dat1a/pass/paramount_liard/sl-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 : 3.62"
Weight : 38.4 kg
Length : 180.5 cm

SWIVEL
Series : 3944XD
Mnemonic : SWVL
Diameter : 3.50"
Weight : 29.5 kg
Length : 108.7 cm

HP TTRM SUB
Series : 3981XA
Mnemonic : TTRM
Diameter : 3.63"
Weight : 38.4 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 : 128.8 kg
Length : 276.9 cm

HT/HP DIGITAL SPECTRALOG
Series : 1329XA
Mnemonic : DSL
Diameter : 4.17"
Weight : 128.8 kg
Length : 281.9 cm
Measure Point: 79.2 cm: GR MP

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: 68.1 cm: SSN MP

TOOL TURNER

Series : N/A
Mnemonic : N/A
Diameter : 3.63"
Weight : 11.4 kg
Length : 63.5 cm

NAUTILUS SLICK DENSITY ELECTRONICS

Series : 2233EA
Mnemonic : HTD
Diameter : 4.16"
Weight : 97.7 kg
Length : 281.7 cm

NAUTILUS SLICK DENSITY MANDREL

Series : 2233MA
Mnemonic : HTD
Diameter : 4.16"
Weight : 97.7 kg
Length : 267.0 cm
Source Type : N/A
Strength : N/A
Measure Point: 109.5 cm: LSD MP
Measure Point: 96.5 cm: SSD MP

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

HT/HP ARRAY ACOUSTILOG ELECTRONICS

Series : 1667EA
Mnemonic : XMAC
Diameter : 3.88"
Weight : 116.4 kg
Length : 297.2 cm

HT/HP CROSS MULTIPOLE ARRAY ACOUSTILOG

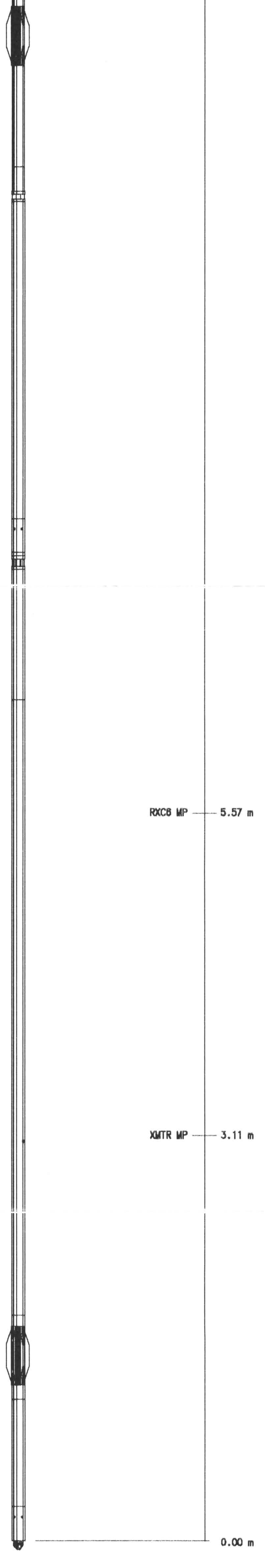
Series : 1678MA
Mnemonic : XMAC
Diameter : 3.88"
Weight : 180.2 kg
Length : 431.8 cm
Measure Point: 167.6 cm: R8
Measure Point: 152.4 cm: R7
Measure Point: 137.2 cm: R6
Measure Point: 121.9 cm: R5
Measure Point: 106.7 cm: R4
Measure Point: 91.4 cm: R3
Measure Point: 76.2 cm: R2
Measure Point: 61.0 cm: R1

SHEAR WAVE ACOUSTILOG

Series : 1678PB
Mnemonic : XMAC
Diameter : 3.63"
Weight : 61.4 kg
Length : 152.4 cm

HP/HT MULTI-POLE ARRAY ACOUSTIC

Series : 1668BA
Mnemonic : MAC
Diameter : 3.62"
Weight : 79.5 kg
Length : 210.8 cm
Measure Point: 165.1 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 : 1668FA
Mnemonic : MAC
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: 1565.0 kg
MAX DIAMETER: 0'5.00"

MAIN PASS

ECLIPS 5.0i Dec 17, 2003
Updates: 1,2,3,32,37
Pcrplt /main/59
Cplot 7.13
Pdf_Cpp /main/16
Wed Oct 19 22:19:53 2005
Fileview 4.67

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/pass/paramount_liard/187ba02.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 2854.007 m BOTTOM DEPTH: 3620.027 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CHT	FILTER ()	medium (1)		TOP	BOTTOM
	FILTER (.h)	medium (1)		''	''
	FILTER (.l)	medium (1)		''	''
TENSION	FILTER ()	medium (1)		''	''
GR	FILTER ()	light (2)		''	''
	FILTER (.h)	light (2)		''	''
	FILTER (.l)	light (2)		''	''
SL-II	FILTER	light (2)		''	''

SLII PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
E MATRIX	OPEN/CASED HOLE	OPEN HOLE		TOP	BOTTOM
SLII AUTOGAIN	AUTO GAIN	AUTO GAIN ON		''	''
SLII ENERGY RANGE	ENERGY RANGE	.15-3.0 MeV		''	''

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/pass/paramount_liard/187baR09.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 2854.007 m BOTTOM DEPTH: 3820.027 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CHT	FILTER ()	medium (1)		TOP	BOTTOM
	FILTER (.h)	medium (1)		''	''
	FILTER (.l)	medium (1)		''	''
TENSION	FILTER ()	medium (1)		''	''
GR	FILTER ()	medium (1)		''	''
	FILTER (.h)	medium (1)		''	''
	FILTER (.l)	medium (1)		''	''
SL-II	FILTER	light (2)		''	''

SLII PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
E MATRIX	OPEN/CASED HOLE	OPEN HOLE		TOP	BOTTOM
SLII AUTOGAIN	AUTO GAIN	AUTO GAIN ON		''	''
SLII ENERGY RANGE	ENERGY RANGE	.15-3.0 MeV		''	''

CURVE DESCRIPTION REPORT

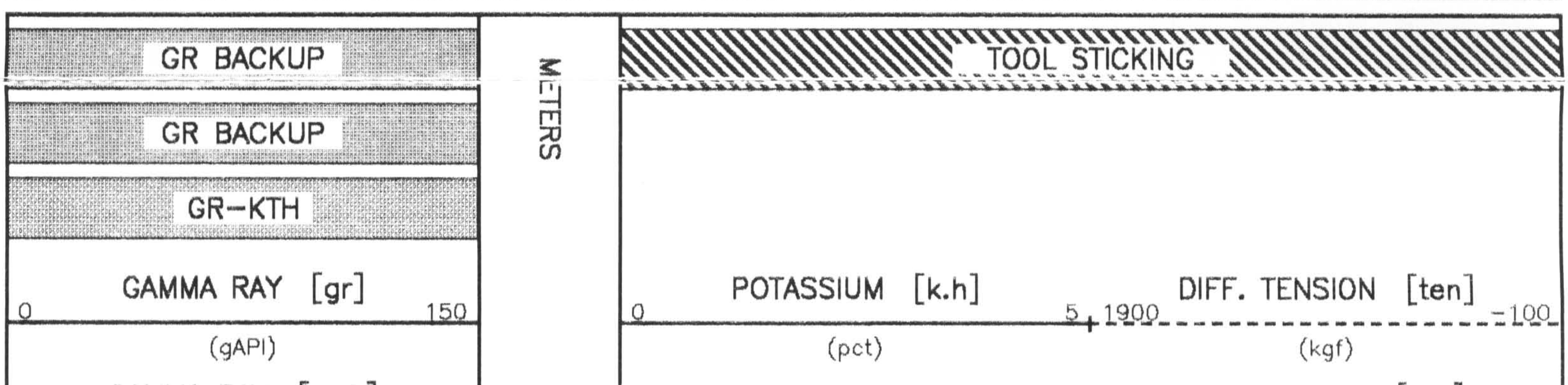
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:CHT	CHT	Oct 14 19:37:00 2005	CABLE HEAD TENSION
F1:GR	GR	Oct 15 04:11:19 2005	GAMMA RAY
F1:KQH	K.H	Oct 14 19:37:00 2005	POTASSIUM CONTENT
F1:KTHQH	KTH.H	Oct 14 19:37:00 2005	STRIPPED POTASSIUM-THORIUM
F1:TEN	TEN	Oct 14 19:37:00 2005	DIFFERENTIAL TENSION
F1:THQH	TH.H	Oct 14 19:37:00 2005	THORIUM CONCENTRATION
F1:UQH	U.H	Oct 14 19:37:00 2005	URANIUM CONTENT

CURVE MEASURE POINT OFFSET

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

Presentation : cpu1:/dat1a/pass/paramount_liard/sl_main.pdf [1:240 Scale]
Plot Interval : 2811.32 – 3618.81 Meters

Data File 1 : F1 : cpu1:/dat1a/pass/paramount_liard/187ba02.xtf
Created On : Oct 14 19:37:00 2005
Company : PARAMOUNT RESOURCES LTD
Well : PARAMOUNT ET AL LIARD K-29A
Field : FORT LIARD
File Interval : 2811.17 – 3618.89 Meters
Oct : 187ba

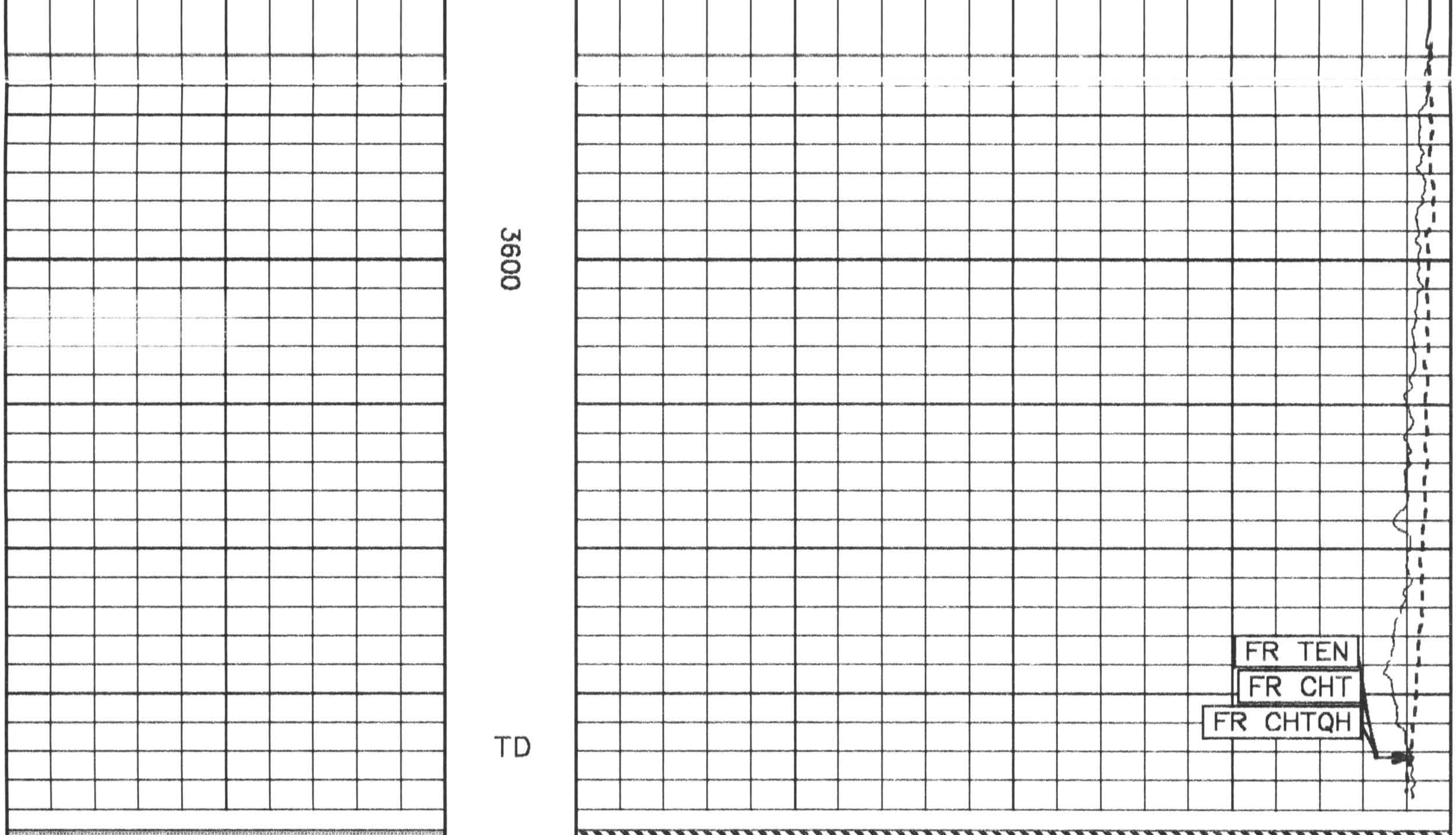



GAMMA RAY [gr.h]
0
150
(gAPI)
KTH [kth.h]
0
150
(gAPI)
CH-TENSION [cht]
5500
500
(kgf)
URANIUM [u.h]
-20
60
(ppm)
THORIUM [th.h]
-20
20
(ppm)
CH-TENSION [cht]
5500
500
(kgf)
GRQH
GR
KTHQH
KQH
UQH
THQH
25
2850
TEN
CHTQH
CHT
2875
2900
2925
2950
2975


3000
3025
3050
3075
3100
3125
3150
3175


3200
3225
3250
3275
3300
3325
3350
3375


3400
3425
3450
3475
3500
3525
3550
3575
FR GR
FR GRQH
FR KTHQH
FR KQH
FR UQH
FR THQH



GR BACKUP | TOOL STICKING

GR BACKUP

GR–KTH

METERS

0 GAMMA RAY [gr] 150
(gAPI)
0 GAMMA RAY [gr.h] 150
(gAPI)
0 KTH [kth.h] 150
(gAPI)

0 POTASSIUM [k.h] 5
(pct)
–20 URANIUM [u.h] 60
(ppm)

1900 DIFF. TENSION [ten] –100
(kgf)
5500 CH–TENSION [cht] 500
(kgf)
–20 THORIUM [th.h] 20
(ppm)
5500 CH–TENSION [cht] 500
(kgf)

MAIN PASS
DOWN LOG

ECLIPS 5.01 Dec 17, 2003
Updates: 1,2,3,32,37
Pcrplt /main/59
Cplot 7.13
Pdf_Cpp /main/16
Wed Oct 19 22:18:43 2005
Fileview 4.67

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/pass/paramount_liard/187ba01.prm
LOGGING MODE: DEPTH DIRECTION: DOWN
TOP DEPTH: 2497.768 m BOTTOM DEPTH: 3611.978 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
CHT	FILTER ()	medium (1)		TOP	BOTTOM
	FILTER (.h)	medium (1)		''	''
	FILTER (.l)	medium (1)		''	''
TENSION	FILTER ()	medium (1)		''	''
GR	FILTER ()	light (2)		TOP	2513.371
		medium (1)		2513.371	2624.152
		light (2)		2624.152	BOTTOM
	FILTER (.h)	light (2)		TOP	2513.600
		medium (1)		2513.600	2624.380
		light (2)		2624.380	BOTTOM
	FILTER (.l)	light (2)		TOP	2513.066
		medium (1)		2513.066	2623.847
		light (2)		2623.847	BOTTOM
SL-II	FILTER	light (2)		TOP	BOTTOM

SLII PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
E MATRIX	OPEN/CASED HOLE	OPEN HOLE		TOP	BOTTOM
SLII AUTOGAIN	AUTO GAIN	AUTO GAIN ON		''	''
SLII ENERGY RANGE	ENERGY RANGE	.15-3.0 MeV		''	''

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/pass/paramount_liard/187baR08.prm
LOGGING MODE: DEPTH DIRECTION: DOWN
TOP DEPTH: 2498.141 m BOTTOM DEPTH: 3611.978 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
CHT	FILTER ()	medium (1)		TOP	BOTTOM
	FILTER (.h)	medium (1)		''	''
	FILTER (.l)	medium (1)		''	''
TENSION	FILTER ()	medium (1)		''	''
GR	FILTER ()	medium (1)		''	''
	FILTER (.h)	medium (1)		''	''
	FILTER (.l)	medium (1)		''	''
SL-II	FILTER	light (2)		''	''

SLII PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m) TOP	BOTTOM
E MATRIX	OPEN/CASED HOLE	OPEN HOLE		TOP	BOTTOM
SLII AUTOGAIN	AUTO GAIN	AUTO GAIN ON		''	''
SLII ENERGY RANGE	ENERGY RANGE	.15-3.0 MeV		''	''

CURVE DESCRIPTION REPORT

CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:CHT	CHT	Oct 14 13:31:21 2005	CABLE HEAD TENSION
F1:GR	GR	Oct 15 02:30:58 2005	GAMMA RAY
F1:KQH	K.H	Oct 14 13:31:21 2005	POTASSIUM CONTENT
F1:KTHQH	KTH.H	Oct 14 13:31:21 2005	STRIPPED POTASSIUM-THORIUM
F1:TEN	TEN	Oct 14 13:31:21 2005	DIFFERENTIAL TENSION
F1:THQH	TH.H	Oct 14 13:31:21 2005	THORIUM CONCENTRATION
F1:UQH	U.H	Oct 14 13:31:21 2005	URANIUM CONTENT

CURVE MEASURE POINT OFFSET

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

Presentation : cpu1:/dat1a/pass/paramount_liard/sl_down.pdf [1:240 Scale]
Plot Interval : 2463.81 – 3626.89 Meters

Data File 1 : F1 : cpu1:/dat1a/pass/paramount_liard/187ba01.xtf
Created On : Oct 14 13:31:21 2005
Company : PARAMOUNT RESOURCES LTD
Well : PARAMOUNT ET AL LIARD K-29A
Field : FORT LIARD
File Interval : 2463.7 – 3626.97 Meters
Oct : 187ba

GR BACKUP | TOOL STICKING

GR BACKUP

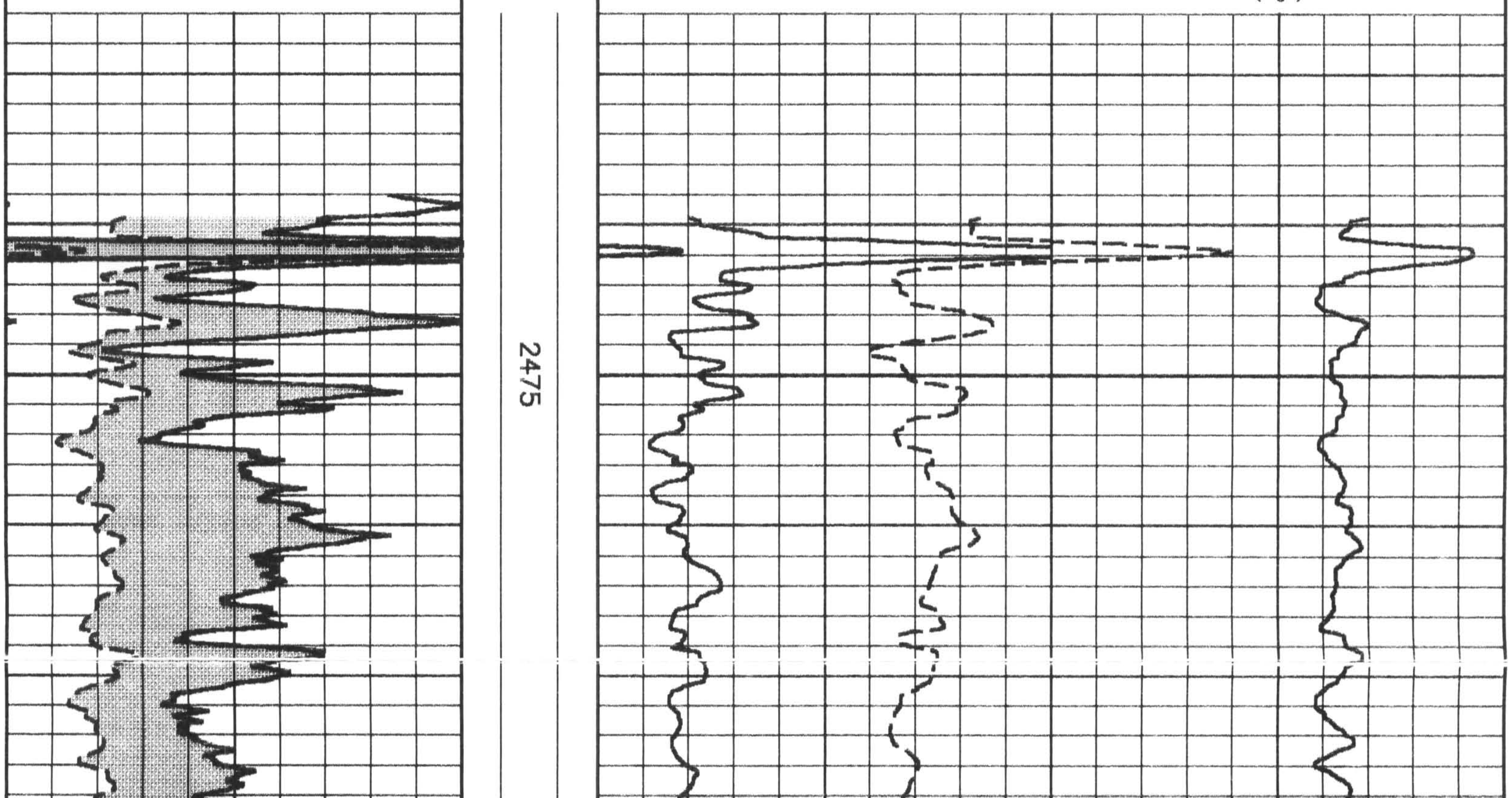
GR–KTH

METERS

0 GAMMA RAY [gr] 150
(gAPI)
0 GAMMA RAY [gr.h] 150
(gAPI)
0 KTH [kth.h] 150
(gAPI)

0 POTASSIUM [k.h] 5
(pct)
–20 URANIUM [u.h] 60
(ppm)

1900 DIFF. TENSION [ten] –100
(kgf)
5500 CH–TENSION [cht] 500
(kgf)
–20 THORIUM [th.h] 20
(ppm)
5500 CH–TENSION [cht] 500
(kgf)




2500
2525
2550
CSG
2575
GR
GRQH
KTHQH
KQH
UQH
THQH
TEN
CHT
CHTQH
2600
2625
2650
2675


2700
2725
2750
2775
2800
2825
2850
2875


2900
2925
2950
2975
3000
3025
3050
3075


3100
3125
3150
3175
3200
3225
3250
3275


3300
3325
3350
3375
3400
3425
3450
3475

CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/pass/paramount_llard/187ba.tp1

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 172708 DATE/TIME PERFORMED: Mon Sep 19 17:43:20 2005

UNIT #: 3860SA IB8937 CALB JIG #: 4702NK DA-404

BACKGROUND (cts/s)	CALBRTR ON (cts/s)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)

GR	95.84	823.64	727.8 870.0 960.0	0.172	16.46	141.46	125

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 172708 DATE/TIME PERFORMED: Mon Sep 19 17:51:41 2005

UNIT #: 3860SA IB8937 VERI JIG #: 4702NK DA-404

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	94.89	815.49	0.172	16.30	140.06	123.76 115.00 135.00

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1329XA 172708 DATE/TIME PERFORMED: Thu Oct 13 21:06:53 2005

UNIT #: 5753XB 10143392 VERI JIG #: 4702NK DA-404

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	107.87	824.84	0.172	18.53	141.67	123.14 113.76 133.76

GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 1329XA 172708 DATE/TIME PERFORMED: Sun Oct 16 17:09:35 2005

UNIT #: 5753XB 10143392 VERI JIG #: 4702NK DA-404

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	363.24	1039.24	0.172	62.39	178.49	116.10 113.14 133.14

SL_II PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 172708 DATE/TIME PERFORMED: Mon Sep 19 17:46:33 2005

UNIT #: 3860SA IB8937 CALIBRATOR ID: 4702NA DA-404

	Bkgnd (cts/s)	Cal ON (cts/s)	Mult (gAPI/(cts/s))	Bkgnd (gAPI)	Cal ON (gAPI)	Cal Value (gAPI)
GR-SL (.06-3.5)	86.42	798.52	0.211	18.20	168.20	150

	Std Rate (cts/s)	Meas Rate (cts/s)	Tool Norm	Std Mult	Log Mult	App Con (pct ppm)
E (.15-3.0)	748	598.1	1.251 0.900 1.100			
K				0.01169	0.01462	8.700
U				0.02668	0.03337	20.000
TH				0.07158	0.08952	53.500

	Mult chnl/MeV	Add chnls	Chi Sqr qsa	QCAL	GAIN	QPKS
SPECTRUM	70.218	3.500	0.968	1.002 0.980 1.020	2979	5

	P1 .352 MeV	P2 .609 MeV	P3 1.120 MeV	P4 1.765 MeV	P5 2.204 MeV
Std Pk	25.80	44.20	81.00	127.40	159.00
Meas Pk	27.45 22.80 28.80	46.40 40.20 48.20	83.00 76.00 88.00	128.03 121.40 133.40	157.43 152.00 166.00
Fit Pk	28.22	46.26	82.14	127.43	158.26

SL_II PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 172708 DATE/TIME PERFORMED: Mon Sep 19 17:51:47 2005

UNIT #: 3860SA IB8937 CALIBRATOR ID: 4702NA DA-404

	Bkgnd (cts/s)	Cal ON (cts/s)	Mult (gAPI/(cts/s))	Bkgnd (gAPI)	Cal ON (gAPI)	Cal Value (gAPI)
GR-SL (.06-3.5)	86.39	798.04	0.211	18.20	168.10	150 135 165

	Std rate (cts/s)	Meas rate (cts/s)	Tool norm	Std Mult	Log Mult	App Con (pct ppm)
E (.15-3.0)	748	596.3	1.251			
K				0.01169	0.01462	8.718 7.830 9.570
U				0.02668	0.03337	19.896 18.000 22.000
TH				0.07158	0.08952	53.379 48.150 58.850

	Mult chnl/MeV	Add chnls	Chi Sqr qsa	QCAL	GAIN	QPKS
SPECTRUM	70.120	3.543	0.872	1.001 0.980 1.020	2979	5

	P1 .352 MeV	P2 .609 MeV	P3 1.120 MeV	P4 1.765 MeV	P5 2.204 MeV
Std Pk	25.80	44.20	81.00	127.40	159.00
Meas Pk	27.43 22.80 28.80	46.55 40.20 48.20	82.74 76.00 88.00	127.91 121.40 133.40	157.31 152.00 166.00
Fit Pk	28.22	46.25	82.08	127.30	158.09

SL_II BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1329XA 172708 DATE/TIME PERFORMED: Thu Oct 13 21:07:06 2005

UNIT #: 5753XB 10143392 CALIBRATOR ID: 4702NA DA-404

	Bkgnd (cts/s)	Cal ON (cts/s)	Mult (gAPI/(cts/s))	Bkgnd (gAPI)	Cal ON (gAPI)	Cal Value (gAPI)
GR-SL (.06-3.5)	100.49	808.97	0.211	21.17	170.40	149 135 165

	Std rate (cts/s)	Meas rate (cts/s)	Tool norm	Std Mult	Log Mult	App Con (pct ppm)
E (.15-3.0)	748	602.5	1.251			
K				0.01169	0.01462	8.808 7.830 9.570
U				0.02668	0.03337	20.103 18.000 22.000
TH				0.07158	0.08952	53.935 48.150 58.850

	Mult chnl/MeV	Add chnls	Chi Sqr qsa	QCAL	GAIN	QPKS
SPECTRUM	68.534	2.813	0.428	0.973 0.980 1.020	3000	5

	P1 .352 MeV	P2 .609 MeV	P3 1.120 MeV	P4 1.765 MeV	P5 2.204 MeV
Std Pk	25.80	44.20	81.00	127.40	159.00
Meas Pk	26.32 22.80 28.80	44.81 40.20 48.20	80.15 76.00 88.00	124.01 121.40 133.40	153.41 152.00 168.00
Fit Pk	26.94	44.55	79.57	123.78	153.86

SL_II AFTER LOG VERIFICATION SUMMARY

TOOL #: 1329XA 172708 DATE/TIME PERFORMED: Sun Oct 16 17:09:30 2005

UNIT #: 5753XB 10143392 CALIBRATOR ID: 4702NA DA-404

	Bkgnd (cts/s)	Cal ON (cts/s)	Mult (gAPI/(cts/s))	Bkgnd (gAPI)	Cal ON (gAPI)	Cal Value (gAPI)
GR-SL (.06-3.5)	345.42	1061.02	0.211	72.76	223.50	151 135 165

	Std rate (cts/s)	Meas rate (cts/s)	Tool norm	Std Mult	Log Mult	App Con (pct ppm)
E (.15-3.0)	748	623.5	1.251			
K				0.01169	0.01462	9.116 7.830 9.570
U				0.02668	0.03337	20.808 18.000 22.000
TH				0.07158	0.08952	55.821 48.150 58.850

	Mult chnl/MeV	Add chnls	Chi Sqr qsa	QCAL	GAIN	QPKS
SPECTRUM	74.786	0.000	0.459	1.036 0.980 1.020	3012	5

	P1 .352 MeV	P2 .609 MeV	P3 1.120 MeV	P4 1.765 MeV	P5 2.204 MeV
Std Pk	25.80	44.20	81.00	127.40	159.00
Meas Pk	25.74 22.80 28.80	45.68 40.20 48.20	84.50 76.00 86.00	132.14 121.40 133.40	164.39 152.00 166.00
Fit Pk	26.32	45.54	83.76	132.00	164.83

BAKER HUGHES

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COMPANY PARAMOUNT RESOURCES LTD.
WELL PARAMOUNT ET AL LIARD K-29A
FIELD FORT LIARD
PROVINCE NORTHWEST TERRITORIES

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

UWI:
300K296030123303

DATE 16-OCT-2005