

BAKER
HUGHESTRUE VERTICAL DEPTH
MULTIPOLE ARRAY ACOUSTIC LOG
NEB/ONE

Baker Atlas

FILE NO:	COMPANY	PARAMOUNT RESOURCES LTD.
API NO:	WELL	PARAMOUNT ET AL LARD K-29A
	FIELD	LARD
	PROVINCE	NORTH WEST TERRITORIES
Ver. 3.87	LOCATION:	OTHER SERVICES
UWI: 300K296030123303	LIC #: 1125	HDIL-GR-CAL
		ZDL-CN-GR-CAL
		EI-CBIL-GR
		XMAC-GR-CAL
		CVL
PERMANENT DATUM	G.L.	ELEVATION 409.6 M
LOG MEASURED FROM	K.B.	6.8 M ABOVE P.D.
DRILL MEAS. FROM	KELLY BUSHING	KB 416.4 M
		DF 409.6 M
		GL 409.6 M
DATE	21-Sep-2005	TD
RUN	1	1
SERVICE ORDER	203168	203168
DEPTH DRILLER	2566.0 M	2465.17 M
DEPTH LOGGER	2551.9 M	2455.2 M
BOTTOM LOGGED INTERVAL	2535.9 M	2443.5 M
TOP LOGGED INTERVAL	1853.0 M	1840.0 M
CASING DRILLER	244.5 MM	244.5 MM
CASING LOGGER	1853-60 M	1853-59 M
BIT SIZE	216.0 MM	216.0 MM
TYPE OF FLUID IN HOLE	INERT	
DENSITY	1245.0 G/L	65.0 S
PH	N/A	N/A
SOURCE OF SAMPLE	FLOWLINE	
RM AT MEAS. TEMP.	N/A	N/A
RMF AT MEAS. TEMP.	N/A	N/A
RMC AT MEAS. TEMP.	N/A	N/A
SOURCE OF RMF	RMC	MEASURED
RM AT BHT	N/A	N/A
TIME SINCE CIRCULATION	6.25 HRS	
MAX. RECORDED TEMP.	113.9 DEGC	
EQUIP. NO.	HL 6558	G. PRAIRIE
RECORDED BY	TIM FISHER	
WITNESSED BY	KEN GLOVER	

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 1 TRIP 1: TIME STOPPED CIRCULATING: 19:00, 22-SEP-2005
MAXIMUM DEVIATION: 52.4 DEGREES AT 2566.0 M

DELTA T PRESENTED ON 100-500 USEC/M SCALE
X-DIPOLE AND FULL WAVE MONOPOLE DATA RECORDED FROM TD-CSG

CUT WINDOW IN CASING FROM 1853.0 - 1859.0 M
TIED INTO SCHLUMBERGER INDUCTION LOG RECORDED 14-MAR-1999 AT A DEPTH OF 1800-1850 M
DID REPEAT BELOW CASING SHOE TO HELP KEEP TOOLS FROM GETTING TO HOT
REMOVED 10 IN INDUCTION CURVE BECAUSE SOMEWHAT ERRATIC
XMAC HAS DIFFERENT TD BECAUSE DELTA-T TAKEN FROM FIRST RUN IN HOLE WITH XMAC
AND THE HOLE WAS CLEANED IN BETWEEN THE TWO RUNS WITH THE XMAC ALLOWING FOR A GREATER TD ON THE SECOND RUN

CREW: N. MCDERMID, L. KAUPP
RIG: AKITA 58

RUN 1 TRIP 1:

EQUIPMENT DATA

PUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	TTRM	3981XA	10048849	FREE
1	1	COM REMOT	3514XB	153396	FREE
1	1	KNUT	3923XA		KNUCKLE JOINT
1	1	CN	2448XA	155944	DECENTRALIZED
1	1	ZDL	2228EA/2228MA	185952/120009	PAD DEVICE
1	1	ORIENT	4401XB	10118898	FREE
1	1	DAL ELEC	1667EA	168548	FREE
1	1	XMAC	1678MA	188711	CENTRALIZED
1	1	XMAC	1668PA	121635	CENTRALIZED
1	1	XMAC	1668BA	153828	CENTRALIZED
1	1	XMAC	1668FA	121039	CENTRALIZED
1	1	CENT	4341XA	389755	CENTRALIZER
1	1	HDIL	1515EA/1515MA	179449/167570	38 MM STANDOFF
1	1	DGR	1329XA	153174	FREE

INSTRUMENT CONFIGURATION

Source File: /data/pass/paramount_k-29a/t_xmac-tdg

CABLEHEAD
Series : CABL338
Mnemonic : CBLH
Diameter : 8.6 cm
Weight : 10.9 kg
Length : 167.6 cm
Measure Point: 83.8 cm: CABLEHEAD TOP

TTRM SUB
Series : 3981XA
Mnemonic : TTRM
Diameter : 9.2 cm
Weight : 36.4 kg
Length : 118.8 cm
Measure Point: 42.2 cm: TEMP MP
Measure Point: 34.5 cm: RM MP

WTS COMMON REMOTE
Series : 3514XA
Mnemonic : WTS
Diameter : 9.2 cm
Weight : 65.5 kg
Length : 189.5 cm

KNUCKLE JOINT
Series : 3923XA
Mnemonic : KNUT
Diameter : 8.6 cm

COMPENSATED NEUTRON
Series : 2448XA
Mnemonic : CN
Diameter : 9.2 cm
Weight : 88.2 kg
Length : 231.4 cm
Measure Point: 80.3 cm: LSN MP
Measure Point: 68.2 cm: SSN MP

Z-DENS LOG
Series : 2228XA
Mnemonic : ZDL
Diameter : 12.4 cm
Weight : 213.6 kg
Length : 564.6 cm
Measure Point: 107.7 cm: SSD MP
Measure Point: 97.3 cm: CAL / ZSPEC MP

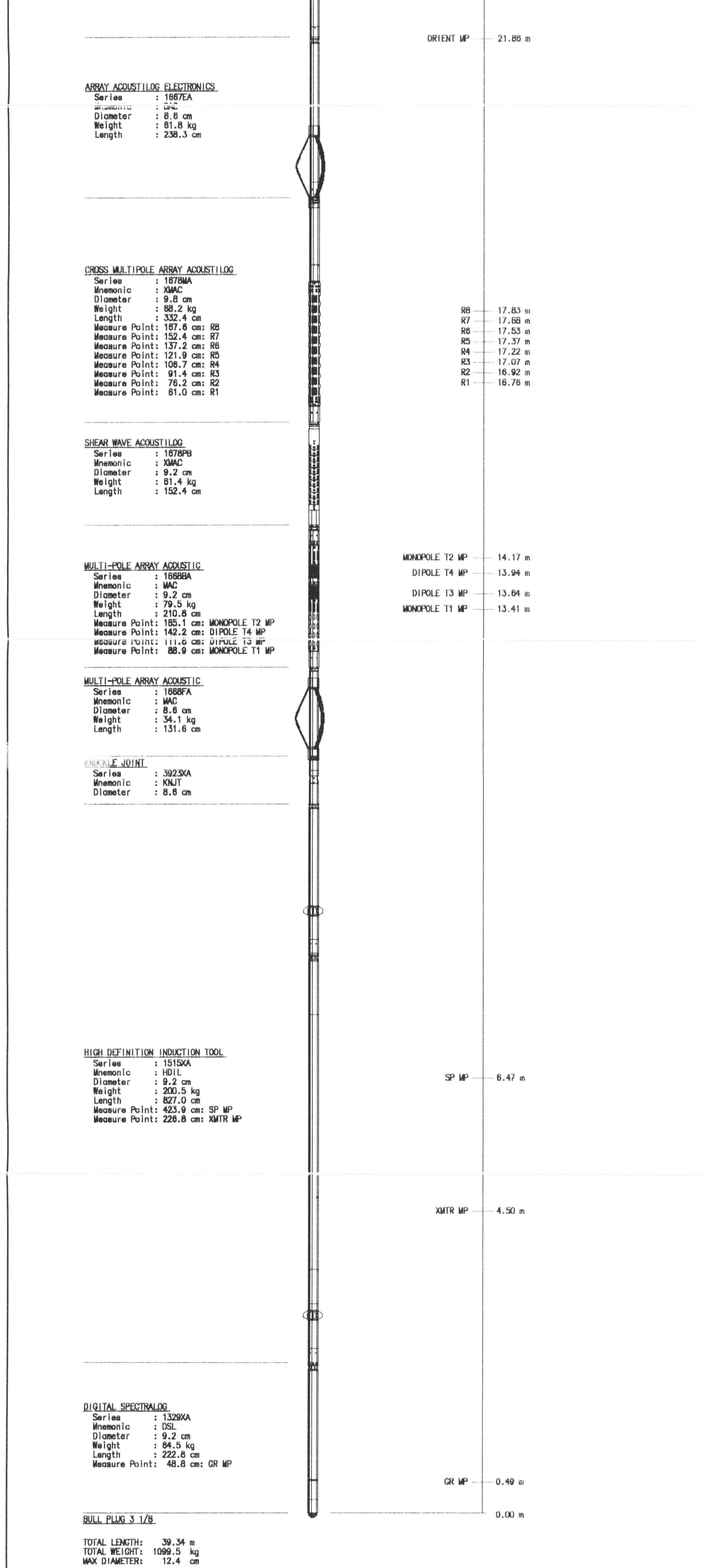
KNUCKLE JOINT
Series : 3923XA
Mnemonic : KNUT
Diameter : 8.6 cm

DIGITAL ORIENTATION
Series : 4401XB
Mnemonic : ORIT
Diameter : 8.6 cm
Weight : 53.6 kg
Length : 329.4 cm
Measure Point: 0.0 cm: ORIENT MP

39.27 m
CABLEHEAD TOP 36.43 m
TEMP MP 36.85 m
RM MP 36.77 m

LSN MP 32.31 m
SSN MP 32.19 m

SSD MP 26.94 m
CAL / ZSPEC MP 26.84 m



MAIN LOG - TRUE VERTICAL DEPTH

ECLIPS 5.01 Dec 17, 2003
Updates: 1,2,3,32

Perplrt /main/59

Cplot 7.13
Pdf_Cpp /main/16

Thu Sep 22 07:28:06 2005
Fileview 4.67

PARAMETER AND FILTER SUMMARY REPORT

File: /data/pass/paramount_k-29a/187dvx01.prm
LOGGING MODE: DEPTH
TOP DEPTH: 1797.173 m
DIRECTION: UP
BOTTOM DEPTH: 2554.186 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
X AXIS CALIPER	FILTER ()	light (2)		TOP	BOTTOM
CHT	FILTER ()	medium (1)		"	"
TENSION	FILTER ()	medium (1)		"	"
GR	FILTER ()	medium (1)		"	"
DT24	FILTER ()	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	177.800	mm	TOP	BOTTOM
BIT SIZE	BIT SIZE	216.000	mm	"	"

ACOUSTIC AVAN CORRELATION

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
MONOPOLE DELTA T	FORMATION TYPE	FAST		TOP	BOTTOM
	CORRELATION METHOD	NTH ROOT		"	"
	RESET TAPERS			"	"
	TAPER - LEFT END	130	us/m	TOP	2523.058
		150	us/m	2523.058	2523.820
		0	us/m	2523.820	2524.277
		140	us/m	2524.277	BOTTOM
	TAPER - RIGHT END	300	us/m	TOP	2516.353
		353	us/m	2516.353	BOTTOM
	FORMATION TYPE	FAST		TOP	BOTTOM
MONOPOLE COMPRESSIONAL	CORRELATION METHOD	NTH ROOT		"	"
	RESET TAPERS			"	"
	TAPER - LEFT END	130	us/m	TOP	2522.906
		140	us/m	2522.906	BOTTOM
	TAPER - RIGHT END	300	us/m	TOP	2516.353
		353	us/m	2516.353	BOTTOM
	CORRELATION FLOOR	0.000		TOP	2339.416
		0.200		2339.416	BOTTOM
	AVAN DTMX LIMITS	P&S ONLY-NO STONELEY		TOP	BOTTOM

ACOUSTIC POROSITY

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
DELTA T CURVE SELECTION	DT24 SOURCE	AVAN DT24		TOP	BOTTOM

ACOUSTIC WAVEFORM FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
WAVEFORM FILTER - FULLWAVE	SURFACE WAVE FILTER	ON		TOP	BOTTOM
	LOW FREQ CUTOFF	7000	Hz	"	"
	HIGH FREQ CUTOFF	30000	Hz	"	"

ACOUSTIC TCC CONTROL PARAMETERS

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
GENERAL TCC PARAMETERS	AGC	ON		TOP	BOTTOM
	SUBCYCLE LENGTH	50		"	"
	SUBSET	6		"	"
GENERAL MONOPOLE TCC PARAMETERS	STACK LEVEL	1		"	"
	LOW FREQ	500		"	"
	HIGH FREQ	23		"	"
DELTA T TCC PARAMETERS	ACG WINDOW	1536	us	"	"
	MOVEOUT	16	us/ft	"	"
	SAMPLE PERIOD	8		"	"
	RX DELAY	240	us	"	"
FULL WAVE MONOPOLE TCC PARAMETERS	ACG WINDOW	5184	us	"	"
	SAMPLE PERIOD	12		"	"
	RX DELAY	0	us	"	"

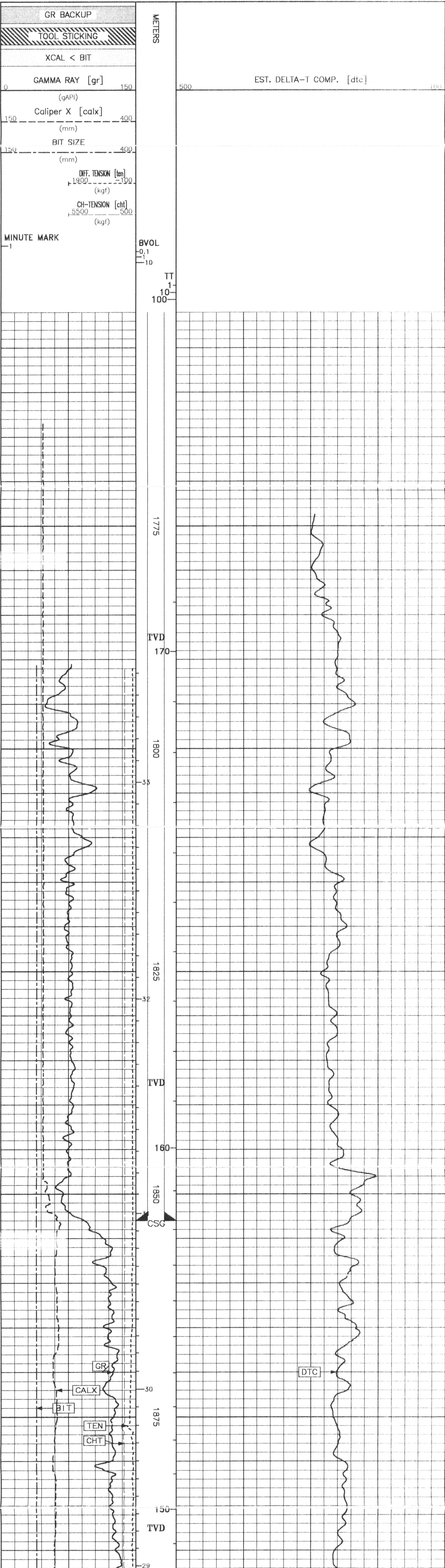
CURVE DESCRIPTION REPORT

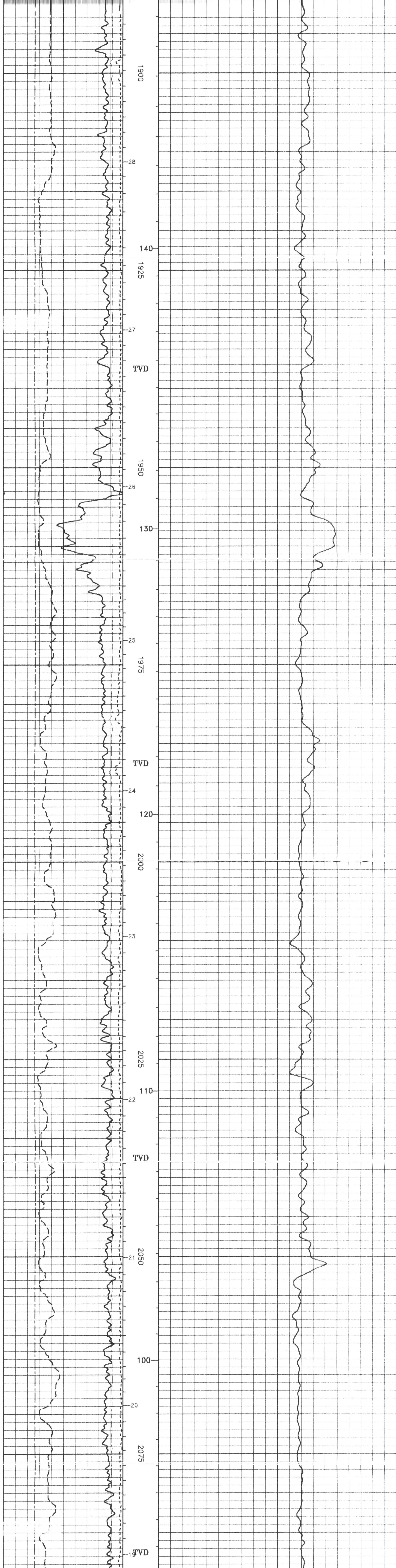
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Sep 22 07:08:44 2005	BIT SIZE
F1:BVOL	BVOL	Sep 22 07:06:44 2005	BOREHOLE VOLUME
F1:CALX	CALX	Sep 22 07:08:44 2005	CALIPER FROM X AXIS OF X-Y CALIPER(S)
F1:CHT	CHT	Sep 22 07:08:44 2005	CABLE HEAD TENSION

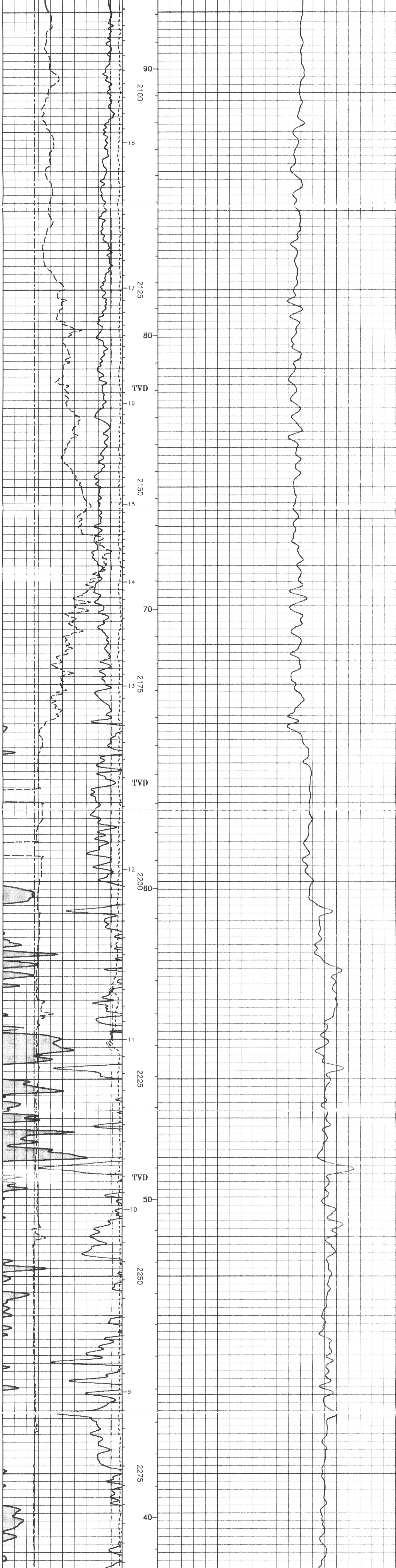
F1:DTC	DTC	Sep 22 07:06:44 2005	CABLE HEAD TENSION
F1:GR	GR	Sep 22 07:06:45 2005	COMPRESSIONAL WAVE SLOWNESS
F1:MMRK	MMRK	Sep 22 07:06:45 2005	GAMMA RAY
F1:TEN	TEN	Sep 22 07:06:46 2005	MINUTE MARK
F1:TTQI	TT	Sep 22 07:06:46 2005	DIFFERENTIAL TENSION
			INTEGRATED TRAVEL TIME FROM ACOUSTIC DELTA-T

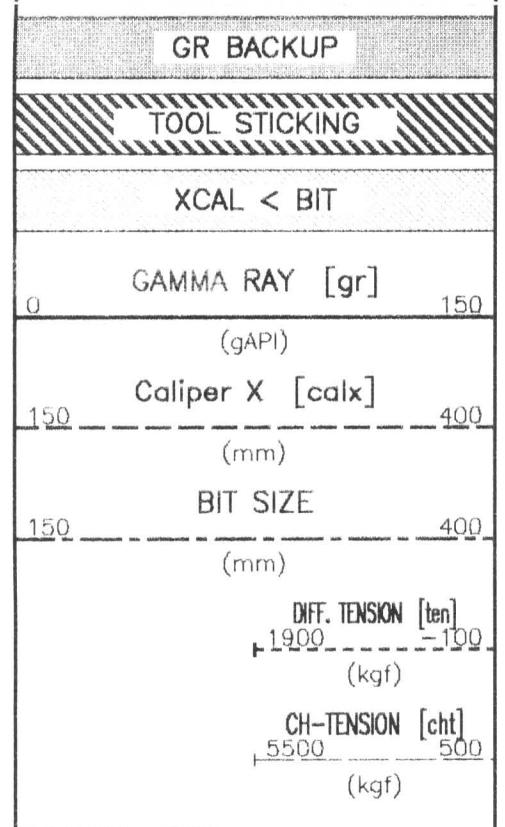
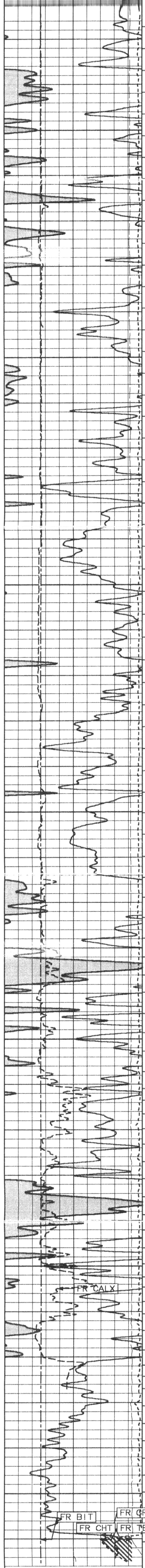
CURVE MEASURE POINT OFFSET					
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CHT	0.00	GR	0.46
CALX	27.55	DTC	0.00	TEN	0.00

Presentation	: c:\p1\data\pass\paramount_k-29a\t_mac_main.pdf [1:240 Scale]
Plot Interval	: 1751.11 - 2457.87 Meters
Data File 1	: F1 : c:\p1\data\pass\paramount_k-29a\187dvx3v.xtf
Created On	: Sep 22 07:06:44 2005
Company	: PARAMOUNT RESOURCES LTD.
Well	: PARAMOUNT ET AL LIARD k-29A
Field	: LIARD
File Interval	: 1751.11 - 2457.87 Meters
Out	: 187dvx









TVD

2300

2325

2350

2375

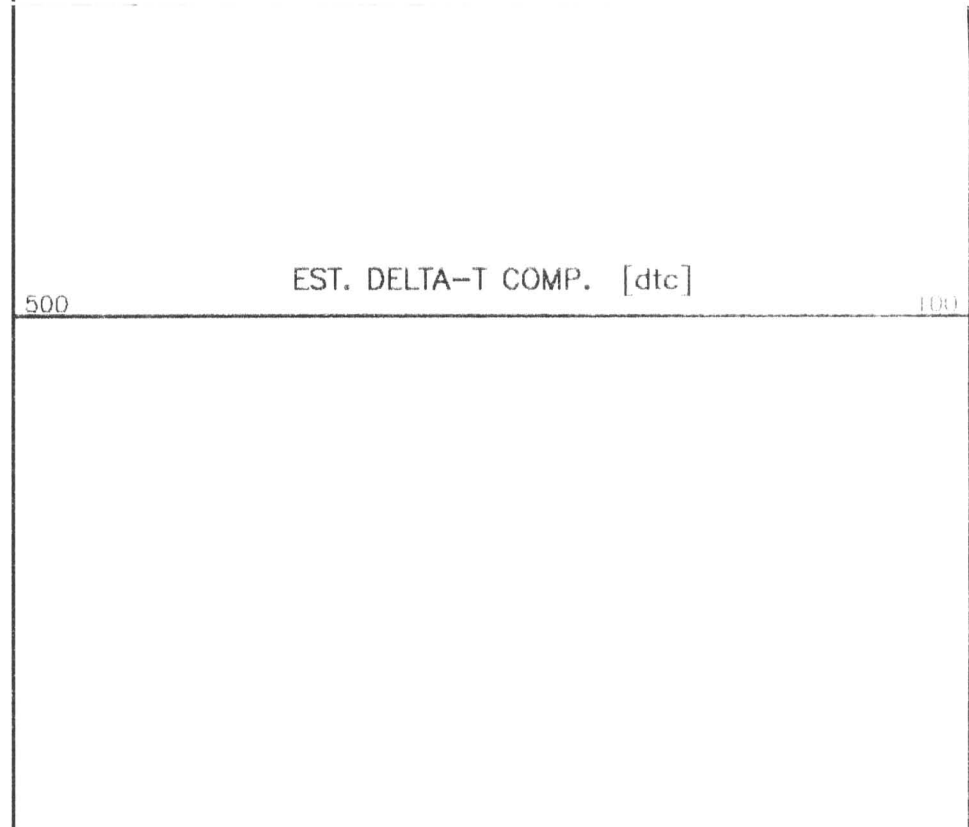
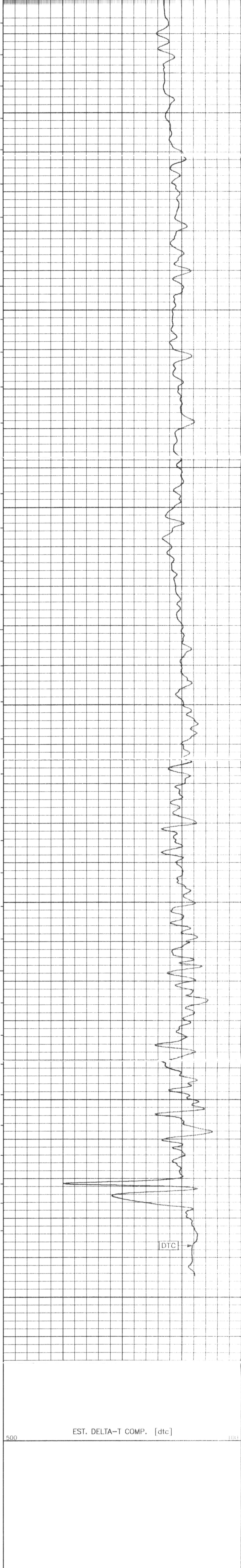
2400

2425

2450

TD

METERS



MINUTE MARK	BVOL
1	0.1
	1
	10
	TT
	1
	10
	100

DIRECTIONAL SURVEY

Source File: /data/pass/paramount_k-29a/t_hvd.prn

Measured Depth Meters	Incl Angle Deg	Drift irection Deg	TRUE Vertical Depth
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	28	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	15.6	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
2566	52.37	330	2465.17

 Baker Atlas	COMPANY	PARAMOUNT RESOURCES LTD.		FILE NO:
	WELL	PARAMOUNT ET AL LIARD k-29A		
	FIELD	LIARD		API NO:
	PROVINCE	NORTH WEST TERRITORIES		
	LOCATION:	ELEVATIONS:	UWI:	
	LIC #: 1125	KB 416.4 M	300k29603012.5303	
		DF		
		GL 409.6 M		
		DATE	21-Sep-2005	