

MINI PLOT



COMPANY
WELL
FIELD
PROVINCE
COUNTRY
LOCATION

PARAMOUNT RESOURCES LTD
PARA ET AL CAMERON L-73
CAMERON HILLS
NORTHWEST TERRITORIES
CANADA

300/L-73-60-10-117-15

FINAL PRINT

LSD SEC TWP RGE Other Services

API Number 1159 Permit Number 1159

Permanent Datum QUND LEVEL, Elevation 770.8 metres

Log Measured From 4.0 Mabve Permanent Datum

Drilling Measured From KELLY BUSHING

Date 27-FEB-2007

Run Number 1

Depth Driller 1450.00 metres

Depth Logger 1448.60 metres

First Reading 1447.50 metre

Last Reading 435.00 metre

Casing Driller 436.00 metres

Casing Logger 435.00 metres

Bit Size 200.00 mm

Hole Fluid Type GELCHEM

Density / Viscosity 1180.0 kg/m3 85.00 sec/L

pH / Fluid Loss 10.00 8.00 ml/30min

Sample Source FLOWLINE

Rm @ Measured Temp 0.54 @ 25.0 ohm-m

Rmf @ Measured Temp 0.41 @ 25.0 ohm-m

Rim @ Measured Temp 0.63 @ 25.0 ohm-m

Source Rmf / Rmc PRESS FILTER

Rm @ BHT 0.36 @ 47.0 ohm-m

Time Since Circulation 8.5 HRS

Max Recorded Temp 47.00 deg C

Equipment Name 13132

Equipment / Base QUINT GPR

Recorded By L. SUTHERLAND

Witnessed By A. AHMED

CIRC STOP 05:30 FEB 27

Last Line

BOREHOLE RECORD

Last Edited: 28-FEB-2007 03:49

Bit Size millimetres	Depth From metres	Depth To metres
311 000	0 00	436 00
200 000	436 00	1450 00

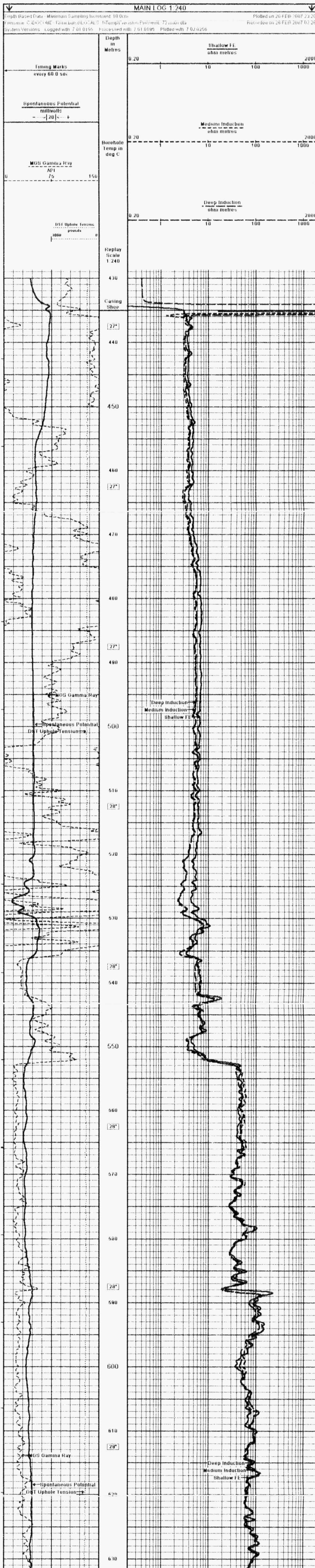
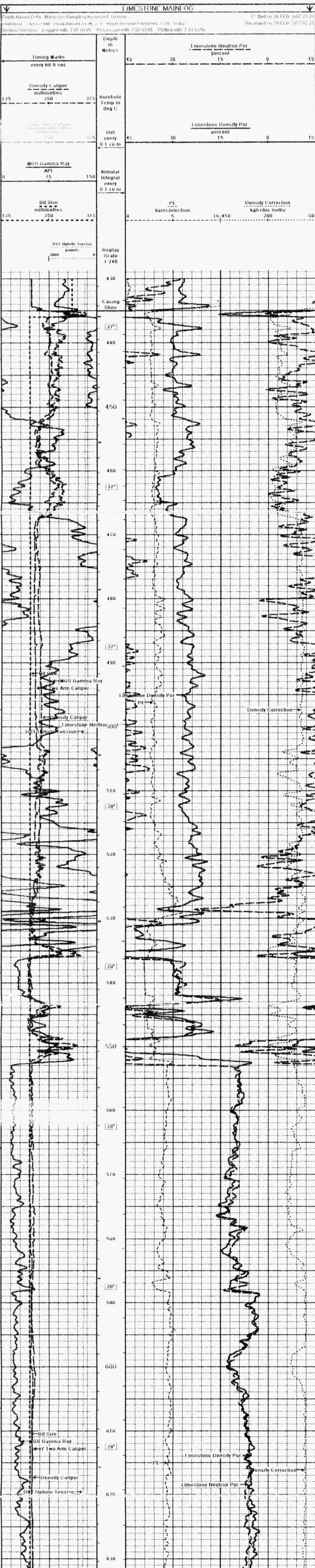
CASING RECORD

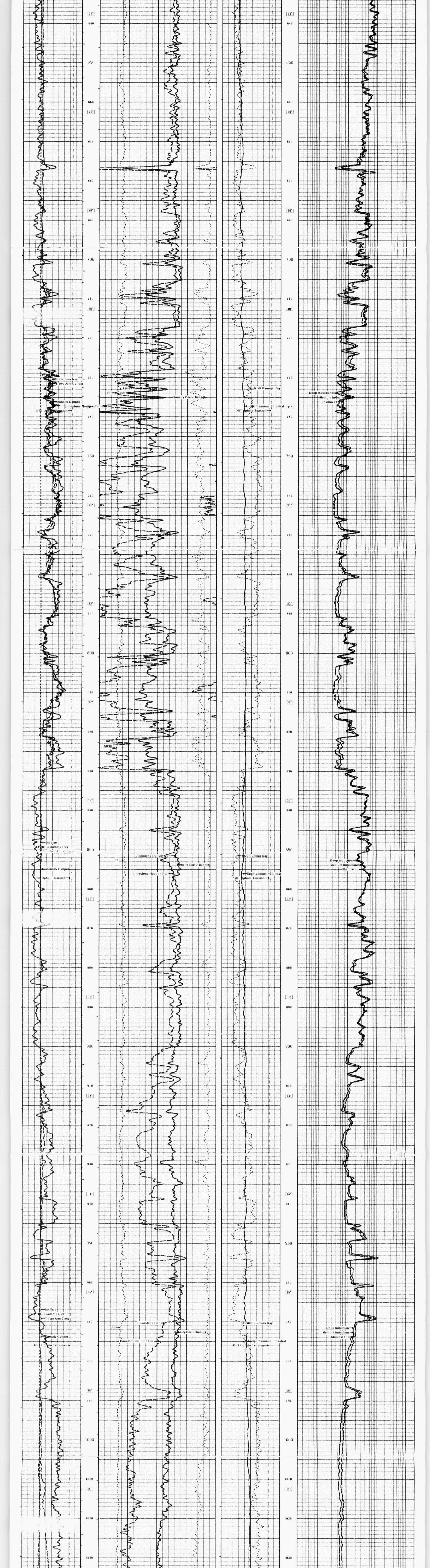
Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight pounds/ft
SURFACE	219 100	0 00	436 00	35 70

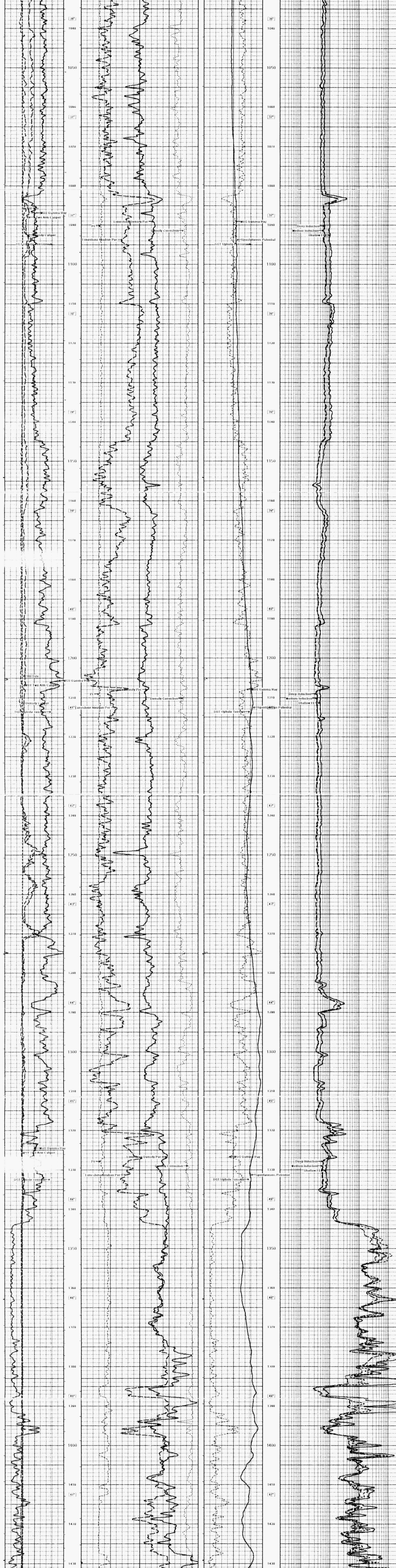
REMARKS

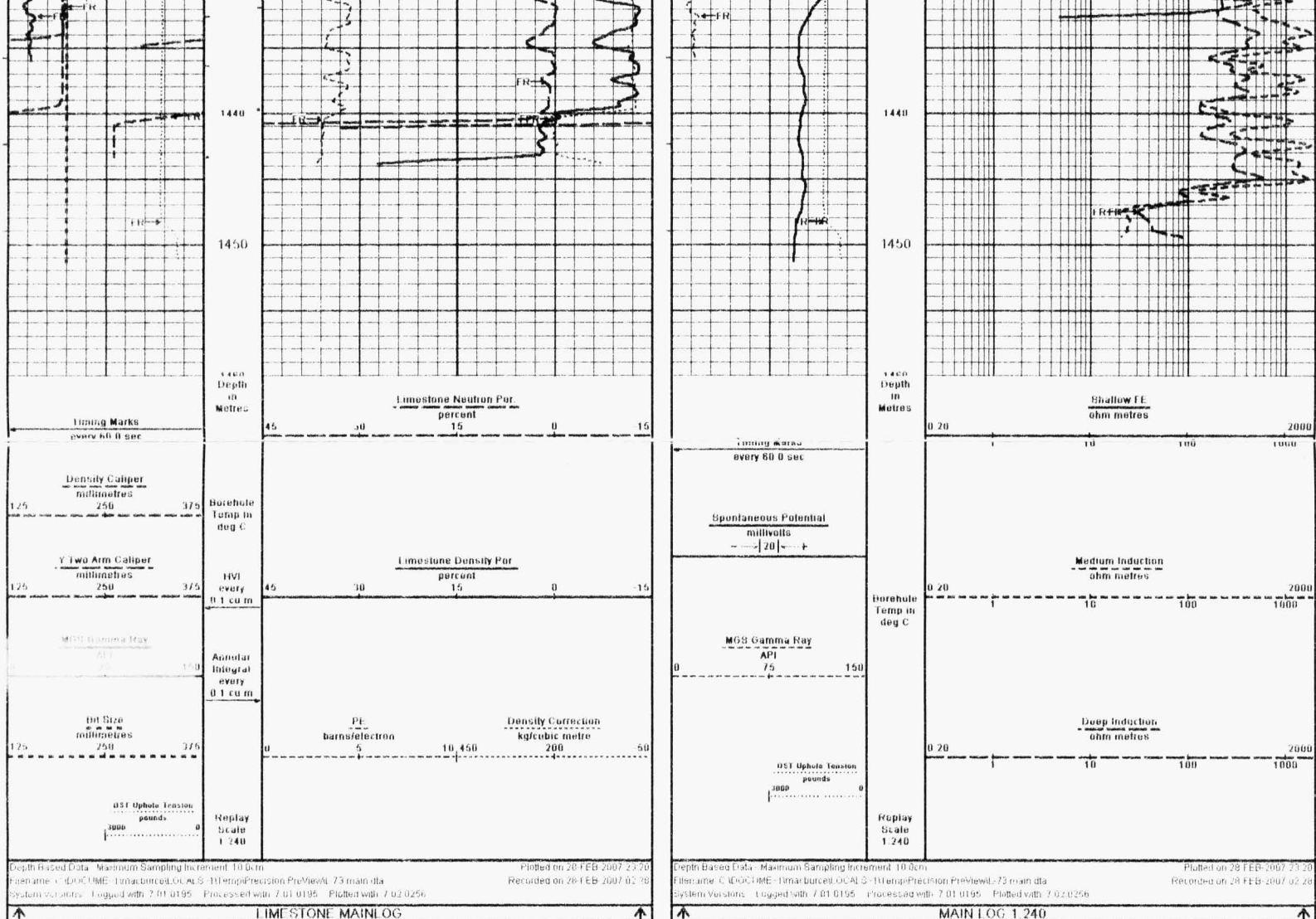
- 1) SOFTWARE ISSUE: WLS 7.01.0195
- 2) CUSTOMER SCALES AND INTERVALS LOGGED
- 3) MAI, MSS, MPD, MDN, MML, ISC, MGS, MTC, MFE, MCG RAN IN COMBINATION
- 4) HARDWARE: MAI: TWO 25.4 MM STANDOFFS
MSS: THREE 25.4 MM STANDOFFS
MDN: DUAL NEUTRON BOWSPRING
MTC: ONE SIX-LEAF CENTRALIZER
- 5) SAP# 4147855 FIELD TICKET # 30074798
- 6) # FIELD PRINTS = 3 # FINAL PRINTS = UNKNOWN
- 7) RIG PD # 129
- 8) HOLE CEMENT VOLUMES CALCULATED USING DENSITY CALIPER AND TWO ARM CALIPER IN COMBINATION :
HOLE VOLUME = 36.05 CU M
ANNULAR VOLUME USING 139.7 MM PRODUCTION CASING = 20.65 CU M
- 9) AREAS OF BOREHOLE RUGOSITY MAY CAUSE POOR DENSITY PAD CONTACT RESULTING IN HIGH DENSITY CORRECTION AND THUS INVALID DENSITY POROSITY DATA AT THOSE INTERVALS.
- 10) SONIC FREE PIPE: 378M

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.









Reference 1	Measured	Calibrated (mV)	
Reference 2	101.0	100.0	
	-99.3	-100.0	
High Resolution Temperature Calibration MCG 131			Field Calibration on 15-DEC-2006, 15:05
	Measured	Calibrated(Deg C)	
Lower	1.00	1.00	
Upper	10.00	10.00	
High Resolution Temperature Constants MCG 131			
Pre-filter Length	11		
FE Calibration MFE 111			Base Calibration on 15-FEB-2007 19:40 Field Check on 28-FEB-2007 00:16
Base Calibration			
	Measured	Calibrated (ohm-m)	
Reference 1	0.0	0.0	
Reference 2	983.2	126.8	
Base Check		278.8	
Field Check		279.0	
FE Constants MFE 111			Last Edited on 25-FEB-2007,03:56
Caliper Source for FE correction	Density Caliper		
Rm Source for FE correction	Temperature Corr		
Temp. for Rm Corr.	MCG External Temperature		
Stand-off	Centred	millimetres	
Caliper Calibration MTC 024			Base Calibration on 6-FEB-2007 10:21 Field Calibration on 28-FEB-2007,00:43
Base Calibration			
Reading No	Measured	Calibrator Size (mm)	
1	15472	110.00	
2	18252	162.00	
3	21045	212.00	
4	23841	262.00	
5	26691	311.00	
6	N/A	N/A	
Field Calibration			
	Measured Caliper (mm)	Actual Caliper (mm)	
	210.30	205.70	
Gamma Calibration MGS 029			Field Calibration on 20-FEB-2007,01:19
	Measured	Calibrated (API)	
Background	58	38	
Calibrator (Gross)	1286	832	
Calibrator (Net)	1228	794	
Gamma Constants MGS 029			Last Edited on 27-FEB-2007,23:06
Gamma Calibrator Number	GRCC095		
Mud Density	1180.00	kg/m3	
Caliper Source for Processing	Density Caliper		
Tool Position	Centred		
Concentration of KCl	0.00	kppm	
SP Calibration MGS 029			Field Calibration on 7-DEC-2006,17:01
	Measured	Calibrated (mV)	
Reference 1	100.0	100.0	
Reference 2	-100.0	-100.0	
High Resolution Temperature Calibration MGS 029			Field Calibration on 7-DEC-2006,17:01
	Measured	Calibrated(Deg C)	
Lower	1.00	1.00	
Upper	5.00	5.00	
High Resolution Temperature Constants MGS 029			
Pre-filter Length	11		
Micro Laterolog Constants MMR 031			
Micro Laterolog K Factor	0.0128		
Standoff Offset	0.0000	inches	
Borehole Correction Constants			
Mud Cake Source	Constant Value		
Mud Cake Thickness	0.4000	inches	
Mud Cake Thickness Caliper	0		
Mud Cake Resistivity	0.1500	ohm-m	
Caliper Calibration MMR 031			Base Calibration on 27-FEB-2007,13:43 Field Calibration on 28-FEB-2007,00:43
Base Calibration			
Reading No	Measured	Calibrator Size (mm)	
1	14876	162.00	
2	17978	212.00	
3	21602	262.00	
4	24308	311.00	
5	0	0.00	
6	N/A	N/A	
Field Calibration			
	Measured Caliper (mm)	Actual Caliper (mm)	
	205.60	205.70	
Micro Normal and Micro Inverse Calibration MMR 031			Base Calibration on 27-FEB-2007,13:43 Field Check on 28-FEB-2007 00:34
Base Calibration			
	Measured	Calibrated (ohm-m)	
Channel	Resistor 1 Resistor 2	Resistor 1 Resistor 2	
Micro Normal	9.8 49.9	5.1 25.6	
Micro Inverse	9.8 49.8	3.4 16.9	
Channel	Base Check (ohm-m)	Field Check (ohm-m)	
Micro Normal	94.7	92.9	
Micro Inverse	61.6	61.6	
Micro Normal and Micro Inverse Constants MMR 031			Last Edited on 25-NOV-2006,14:14
Micro Normal K Factor	0.5110		
Micro Inverse K Factor	0.3380		
Standoff Offset	0.0000	millimetres	
Neutron Calibration MDN 016			Base Calibration on 11-JAN-2007 20:47 Field Check on 27-FEB-2007 23:30
Base Calibration			
	Measured	Calibrated (cps)	
	Near Far	Near Far	
	3219 98	3714 110	
Ratio	32.703	33.764	
Field Calibrator at Base		Calibrated (cps)	
		2486 3648	
Ratio		0.681	
Field Check		Calibrated (cps)	
		2568 3767	
Ratio		0.682	
Neutron Constants MDN 016			Last Edited on 25-FEB-2007,03:55
Neutron Source Id	277		
Neutron Jig Number	N636		
Epithermal Neutron	No		
Caliper Source for Processing	Density Caliper		
Stand-off	0.00	mm	
Mud Density	1000.00	kg/m3	
Limestone Sigma	7.10	cu	
Sandstone Sigma	4.26	cu	
Dolomite Sigma	4.70	cu	
Formation Pressure Source	Constant Value		
Formation Pressure	0.00	kPa	
Temperature Source	Constant Value		
Temperature	20.00	degrees C	
Mud Salinity	0.00	kppm	
Formation Fluid Salinity Source	Constant Value		
Formation Fluid Salinity	0.00	kppm	
Barite Mud Correction	Not Applied		
Photo Density Calibration MPD 093			Base Calibration on 21-FEB-2007 18:37 Field Check on 27-FEB-2007 23:24
Density Calibration			
Base Calibration			
	Measured	Calibrated (sdu)	
	Near Far	Near Far	
Reference 1	66461 35432	60352 31615	
Reference 2	27582 2460	25043 2540	
Field Check at Base			
	738.4 855.4		
Field Check			
	743.9 865.6		
PE Calibration			
Base Calibration			
	WS WH Ratio	Calibrated Ratio	
Background	135 656		
Reference 1	27020 66295	0.410	0.400
Reference 2	7311 27477	0.268	0.272
Field Check at Base			
	135.0 656.2		
Field Check			
	134.5 658.1		
Density Constants MPD 093			Last Edited on 27-FEB-2007,23:07
Density Source Id	1615B		
Nylon Calibrator Number	608		
Aluminium/Fe Calibrator Number	608		
Density Shoe Profile	4 inch		
Caliper Source for Processing	Density Caliper		
PE Correction to Density	Not Applied		
Mud Density	1180.00	kg/m3	
Mud Density Z/A Correction	1.11		
Mud Filtrate Density	1000.00	kg/m3	
Dry Hole Mud Filtrate Density	1000.00	kg/m3	
DNCT	0.00	kg/m3	
CRCT	0.00	kg/m3	
Matrix Density (kg/m3)	Depth (m)		
2710.00			
0.00	0.00		
0.00	0.00		
0.00	0.00		
0.00	0.00		
0.00	0.00		
0.00	0.00		
0.00	0.00		
0.00	0.00		
Caliper Calibration MPD 093			Base Calibration on 11-JAN-2007 21:58 Field Calibration on 28-FEB-2007,00:44
Base Calibration			
Reading No	Measured	Calibrator Size (mm)	
1	15040	110.00	
2	23085	162.00	
3	31440	212.00	

4	40233	262.00
5	49152	311.00
6	N/A	N/A

Field Calibration	Measured Caliper (mm)	Actual Caliper (mm)
	207.70	205.70

Sonic Constants MSS 003			Last Edited on 27-FEB-2007,23:07	
Maximum Boundary Contrast	328.08	micro-sec/m		
Fluid Transit Time	620.08	micro-sec/m		
Limestone Transit Time	155.84	micro-sec/m		
Sandstone Transit Time	182.09	micro-sec/m		
Dolomite Transit Time	142.72	micro-sec/m		
Sonic used for Porosities	3-5' Compensated Sonic			
Correction for Sonde Skew	Applied			
Cycle Stretch Algorithm	Applied			
MN3FT	N/A	micro-sec		
MX3FT	N/A	micro-sec		
Fixed Gate Parameters				
Start Time (micro-sec)	End Time (micro-sec)	Discriminator (mV)	N/A	
N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	
Down Hole Fixed Gate Parameters				
Gate Start	N/A	micro-sec		
Gate Width	N/A	micro-sec		
Initial Discriminator Level	0.0000	mVolts		
Full Waveform Parameters				
Use 3' Waveform to derive TR	N/A			
Use 4' Waveform to derive TR	N/A			
Use 5' Waveform to derive TR	N/A			
Use 6' Waveform to derive TR	N/A			
3' Waveform Discriminator Level	N/A	mV		
4' Waveform Discriminator Level	N/A	mV		
5' Waveform Discriminator Level	N/A	mV		
6' Waveform Discriminator Level	N/A	mV		
3' Waveform Filter	N/A			
4' Waveform Filter	N/A			
5' Waveform Filter	N/A			
6' Waveform Filter	N/A			
Semblance Level	N/A			
Semblance Window Width	N/A	micro-sec		
Sonic 1 Despiker	N/A	N/A		
Sonic 2 Despiker	N/A	N/A		

Induction Calibration MAI 154				Base Calibration on 14-JAN-2007 01:38	
				Field Check on 28-FEB-2007 00:33	
Base Calibration					
Test Loop Calibration		Measured		Calibrated (mmho/m)	
Channel	Low	High		Low	High
1	16.6	470.6		9.3	966.2
2	6.3	383.0		7.6	821.4
3	4.0	264.7		5.2	566.0
4	2.3	136.2		2.6	279.2
Array Temperature		22.3	Deg C		
Channel	Base Check (mmho/m)		Field Check (mmho/m)		
	Low	High	Low	High	
1	13.1	3867.2	15.3	3866.9	
2	29.6	3530.7	30.2	3528.9	
3	26.8	3001.8	27.1	2999.9	
4	18.4	2040.8	18.6	2039.5	
Deep	15.3	1926.8	15.7	1925.6	
Medium	39.6	3962.8	39.7	3960.1	
Shallow	45.8	5270.7	46.6	5268.1	
Array Temperature		12.1	28.0		Deg C

Induction Constants MAI 154			Last Edited on 27-FEB-2007,23:07	
Induction Model		VECTAR		
Caliper for Borehole Corr.		Density Caliper		
Hole Size for Borehole Correction		N/A	millimetres	
Stand-off		25.40	millimetres	
Number of Fins on Stand-off		5.0000		
Stand-off Fin Width		25.4000	millimetres	
Borehole Corr. Rm Source		Temperature Corr		
Temp. for Rm Corr.		MCG External Temperature		
Squasher Start		0.0020	mhos/metre	
Borehole Normalisation				
DRM1	0.0000	DRC1	0.0000	
DRM2	0.0000	DRC2	0.0000	
MRM1	0.0000	MRC1	0.0000	
MRM2	0.0000	MRC2	0.0000	
SRM1	0.0000	SRC1	0.0000	
SRM2	0.0000	SRC2	0.0000	
Calibration Site Corrections				
Channel 1		0.00	mmhos/metre	
Channel 2		0.00	mmhos/metre	
Channel 3		0.00	mmhos/metre	
Channel 4		0.00	mmhos/metre	
Apparent Porosity and Water Saturation Constants				
Archie Constant (A)		1.00		
Cementation Exponent (M)		2.00		
Saturation Exponent (N)		2.00		
Saturation of Water for Apor		100.00	percent	
Resistivity of Water for Apor and Sw		0.05	ohm-m	
Resistivity of Mud Filtrate for Sw		0.00	ohm-m	

High Resolution Temperature Calibration MAI 154			Field Calibration on 16-DEC-2006,08:07	
	Measured	Calibrated(Deg C)		
Lower	1.00	1.00		
Upper	10.00	10.00		

High Resolution Temperature Constants MAI 154		
Pre-filter Length	11	

DOWNHOLE EQUIPMENT	
C:\DOCUME~1\macburce\LOCALS~1\Temp\Precision PreView\IL-73 main.dta	

Compact Gamma MCG 131 Length: 2.65 m	Weight: 63.9 lb	20.98 m 20.10 m	GRGC - Gamma Ray CGXT - MCG External Temperature
Compact Focussed Electric MFE 111 Length: 1.84 m	Weight: 48.5 lb	18.98 m	FEFE - Shallow FE
Compact Two Arm Caliper MTC 24 Length: 2.17 m	Weight: 61.7 lb	16.53 m	CLYC - Y Two Arm Caliper
Compact Short Gamma MGS 29 Length: 1.04 m	Weight: 24.3 lb	15.66 m	GRGM - MGS Gamma Ray
Compact InterSonde Crank ISC 151 Length: 0.71 m	Weight: 24.3 lb		
Compact Micro-Resistivity MMR 31 Length: 2.62 m	Weight: 81.6 lb	12.10 m 12.10 m 12.10 m	MBTC - MMR Caliper MINV - MMR MicroLog Inverse MNRL - MMR MicroLog Normal
Compact Neutron MDN 16 Length: 1.53 m	Weight: 50.7 lb	10.64 m	NPRS - Sandstone Neutron Por.
Compact Density/Caliper MPD 93 Length: 2.92 m	Weight: 90.4 lb	8.06 m 8.06 m 8.06 m 7.85 m 7.85 m 7.83 m	AVOL - Annular Volume HVOL - Hole Volume CLDC - Density Caliper DCOR - Density Correction DPRS - Sandstone Density Por. PDPE - PE
Compact Sonic MSS 3 Length: 3.82 m	Weight: 72.8 lb	3.95 m 3.95 m 3.95 m 3.95 m 3.95 m 3.95 m	TR21 - 3' Transit Time TR11 - 4' Transit Time DT35 - 3-5' Compensated Sonic TR12 - 6' Transit Time TR22 - 5' Transit Time DT34 - 3-4' Compensated Sonic
Compact Induction MAI 154 Length: 3.29 m	Weight: 48.5 lb	0.79 m 0.79 m 0.07 m Tool Zero	RILM - Medium Induction RILD - Deep Induction SPCG - Spontaneous Potential (0.28m from bottom)
Compact Hole Finder HFS 1 Length: 0.24 m	Weight: 2.2 lb	All measurements relative to tool zero	
Total	Length: 22.83 m	Weight: 568.8 lb	

COMPANY	PARAMOUNT RESOURCES LTD				
WELL	PARA ET AL CAMERON L-73				
FIELD	CAMERON HILLS				
PROVINCE	NORTHWEST TERRITORIES				
COUNTRY	CANADA				
Elevation Kelly Bushing	774.80	metres	First Reading	1447.50	metre
Elevation Drill Floor		metres	Depth Driller	1450.00	metres
Elevation Ground Level	770.80	metres	Depth Logger	1448.60	metres
 MINILOT Weatherford®					