

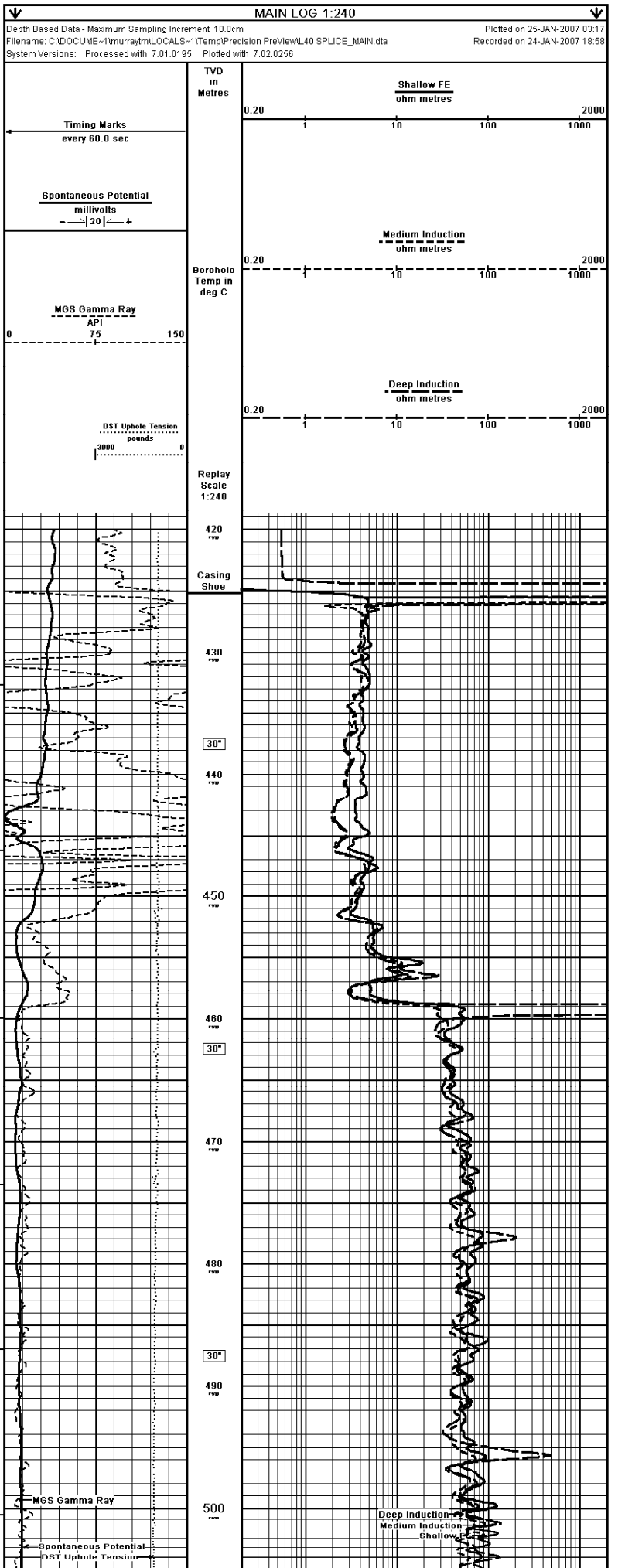
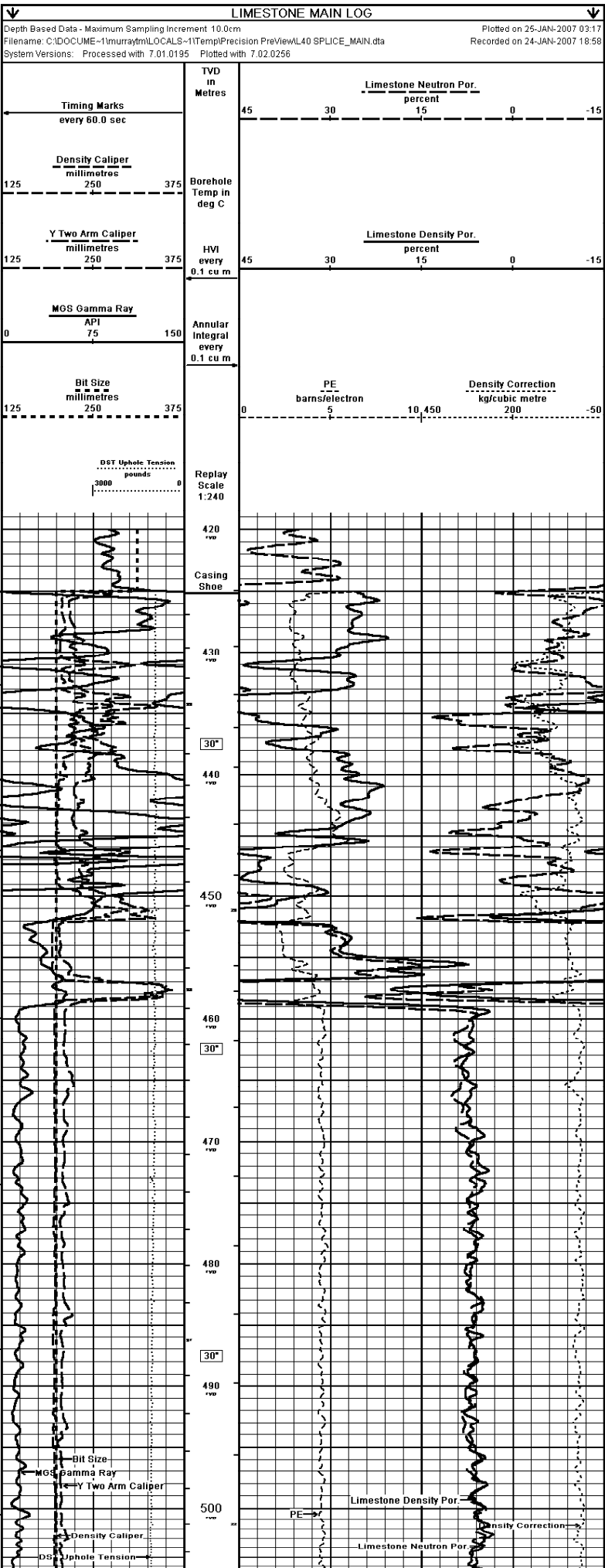
TRUE VERTICAL DEPTH MINIPILOT

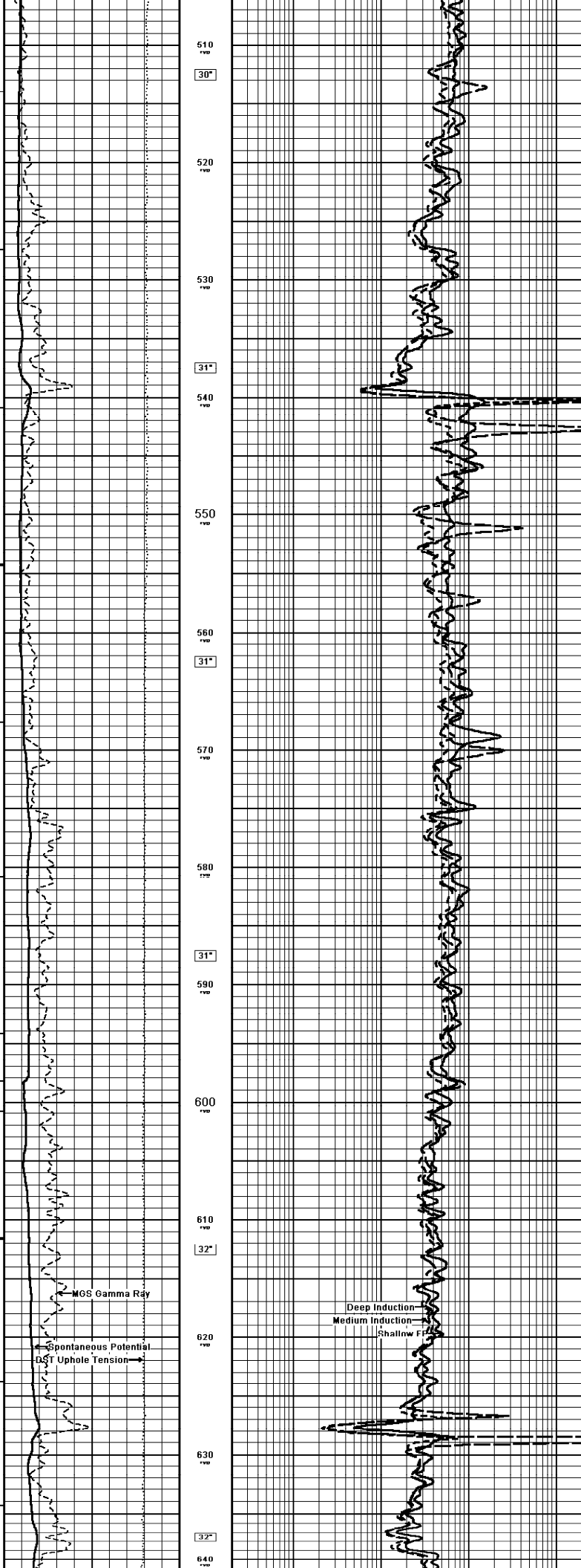
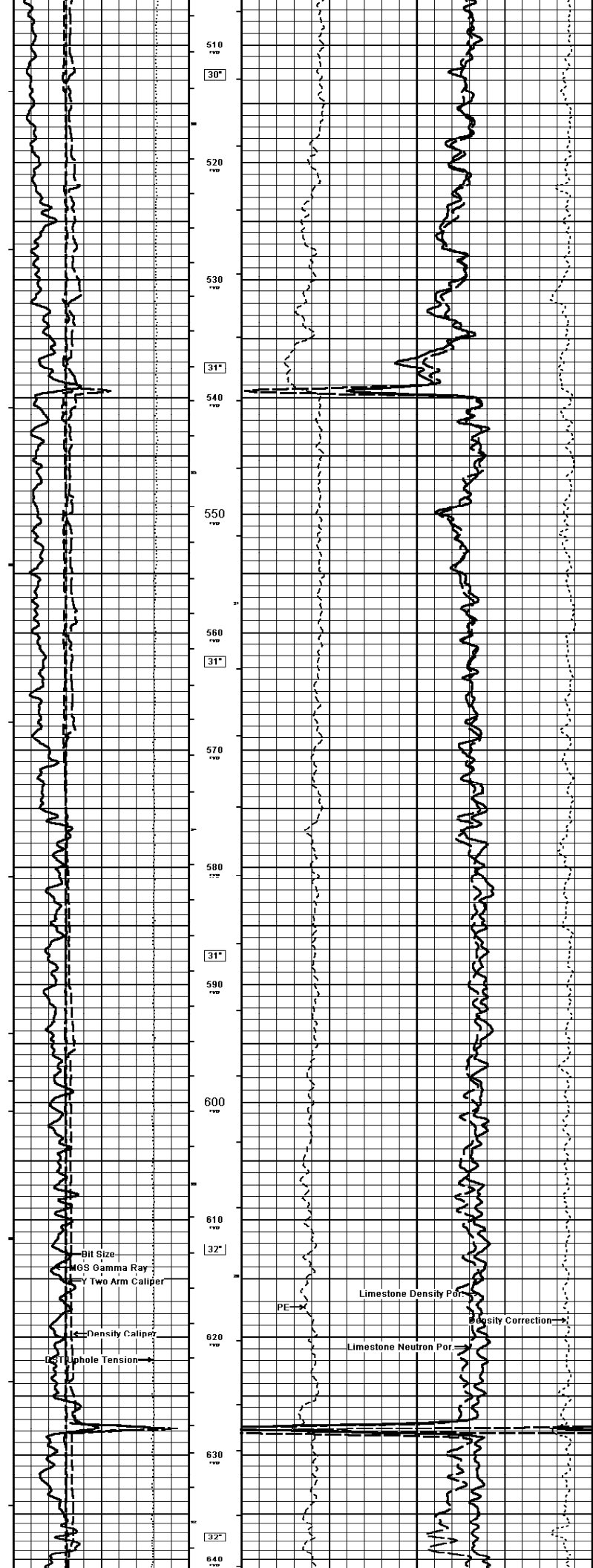
COMPANY	PARAMOUNT RESOURCES LTD.		
WELL	PARA ET AL CAMERON L40		
FIELD	CAMERON HILLS		
PROVINCE	NORTHWEST TERRITORIES		
COUNTRY	CANADA		
LOCATION	300L406010117300		
LSD	SEC	TWP	RGE
API Number	Other Services		
Permit Number 2045	COMPENSATED SONIC MICROLOG		
Permanent Datum OUND LEVEL, Elevation	684.70 metres		Elevations:
Log Measured From 5.4 Mabove Permanent Datum			KB 690.10 metres
Drilling Measured From KELLY BUSHING			DF 684.70 metres
Date	24-JAN-2007		GL
Run Number	1		
Depth Driller	1437.20		metres
Depth Logger	1437.50		metres
First Reading	1436.20		metre
Last Reading	425.10		metre
Casing Driller	425.00		metres
Casing Logger	425.10		metres
Bit Size	200.00		mm
Hole Fluid Type	GELCHEM		
Density / Viscosity	1110.0 kg/M3		85.00 sec/L
PH / Fluid Loss	10.00		13.00 ml/30Min
Sample Source	FLOWLINE		
Rm @ Measured Temp	0.60 @ 25.0		ohm-m
Rmf @ Measured Temp	0.41 @ 25.0		ohm-m
Rmc @ Measured Temp	0.83 @ 25.0		ohm-m
Source Rmf / Rmc	PRESS		FILTER
Rm @ BHT	0.40 @ 48.0		ohm-m
Time Since Circulation	6 HRS		
Max Recorded Temp	48.00		deg C
Equipment Name	3424		
Equipment / Base	QUINT		GPR
Recorded By	M. SURKA / M. BONNELL		
Witnessed By	B. POWELL		
CIRC. STOP	12.45 JAN 24		Last Line

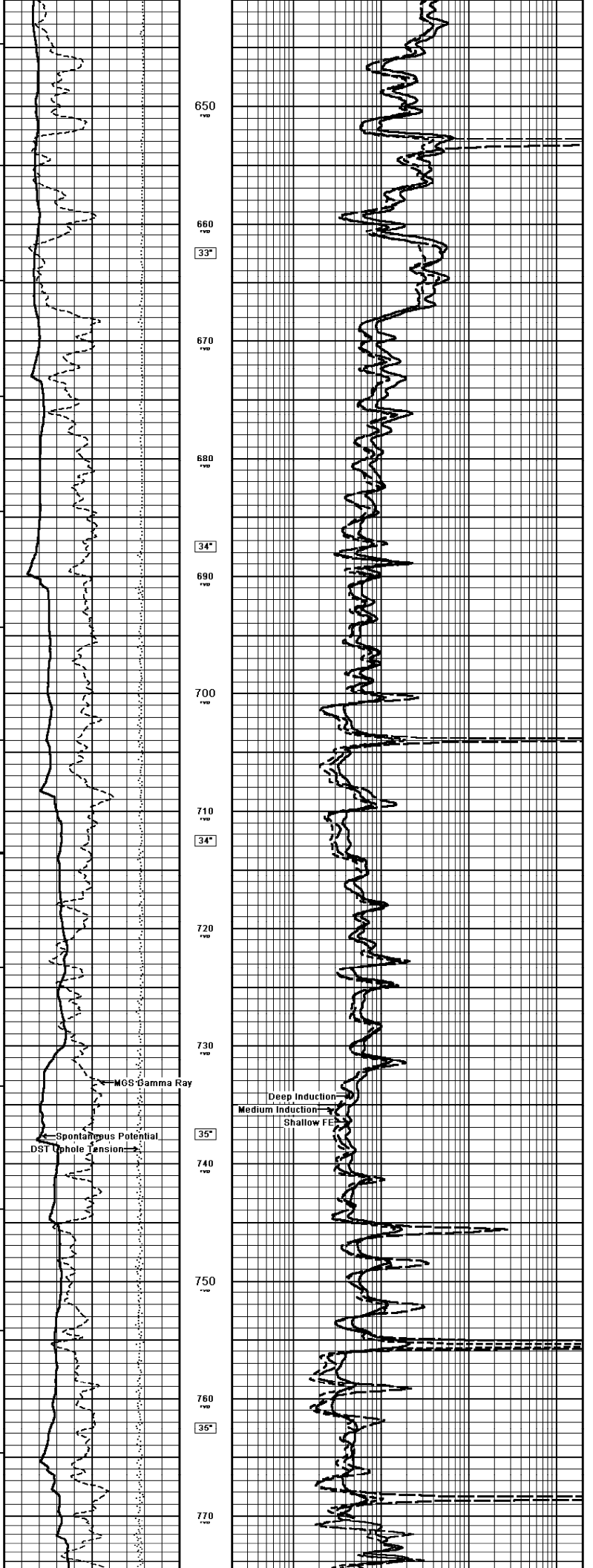
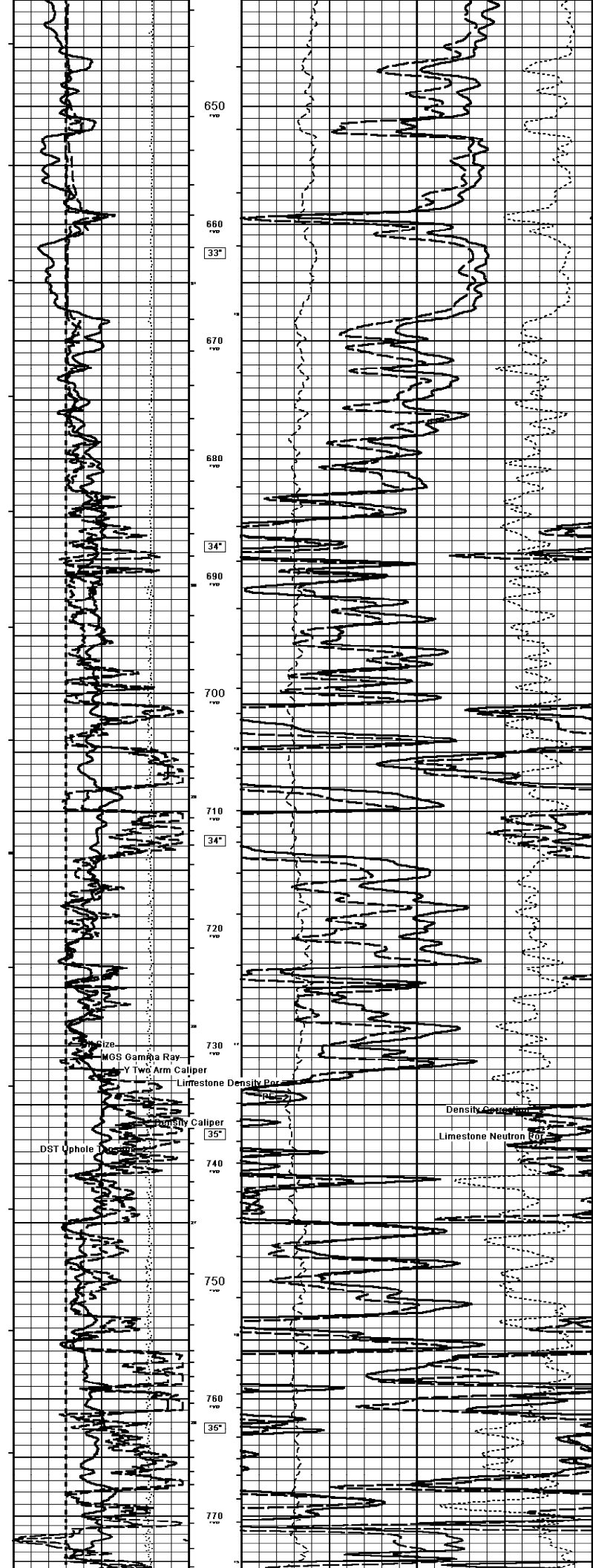
BOREHOLE RECORD			Last Edited: 24-JAN-2007 18:55	
Bit Size millimetres	Depth From metres	Depth To metres		
311.000	0.00	425.00		
200.000	425.00	1453.00		
CASING RECORD				
Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight pounds/ft
SURFACE	219.100	0.00	425.00	24.00

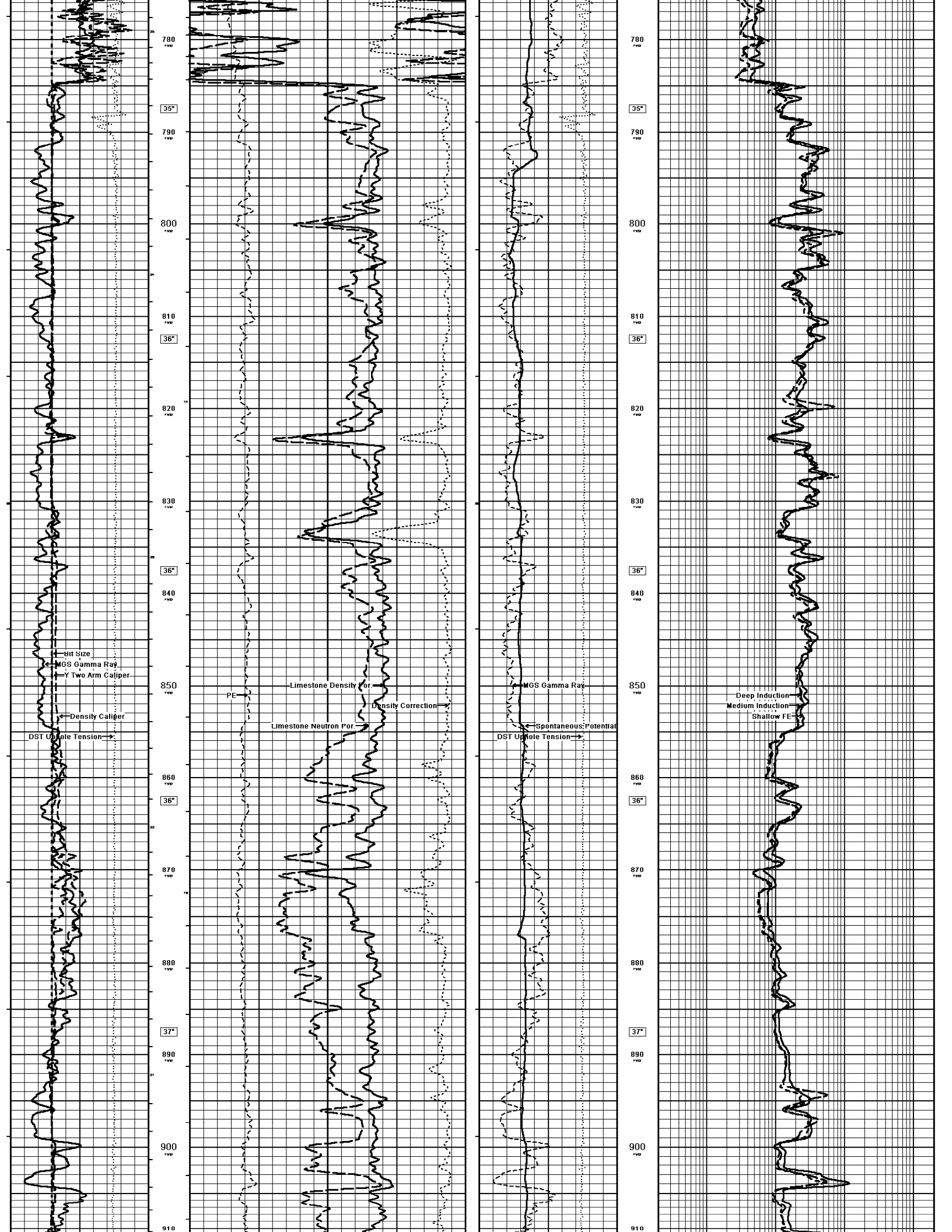
REMARKS
1) SOFTWARE ISSUE: WLS 7.01.0195
2) CUSTOMER SCALES AND INTERVALS LOGGED.
3) MAI, MSS, MPD, MDN, MMR, ISC, MGS, MTC, MCG RAN IN COMBINATION.
4) HARDWARE: MAI: TWO 25.4 MM STANDOFFS
MDN: DUAL NEUTRON BOWSPRING
MTC: ONE SIX-LEAF CENTRALIZER
MSS: THREE 25.4 MM STANDOFFS
5) SAP# 4145923 # FIELD PRINTS = 2
6) RIG: PD 220
7) HOLE_CEMENT VOLUMES CALCULATED USING DENSITY CALIPER AND TWO ARM CALIPER IN COMBINATION :
HOLE VOLUME = 39.4 CU.M.
ANNULAR VOLUME USING 139.7 MM PRODUCTION CASING = 23.8 CU.M
8) SONIC FREE PIPE SIGNAL FOUND FROM 305-318M.
9) MAXIMUM DEVAITION OF 12.3 DEGREES AT 1230.7 M

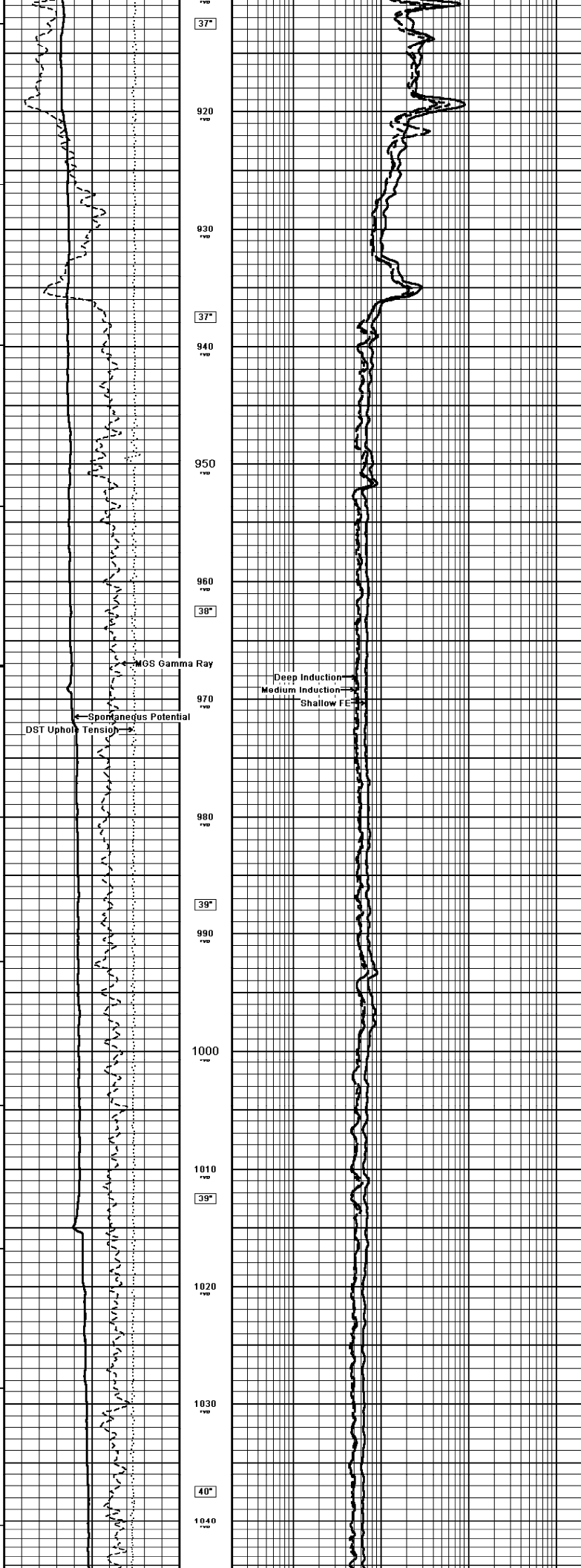
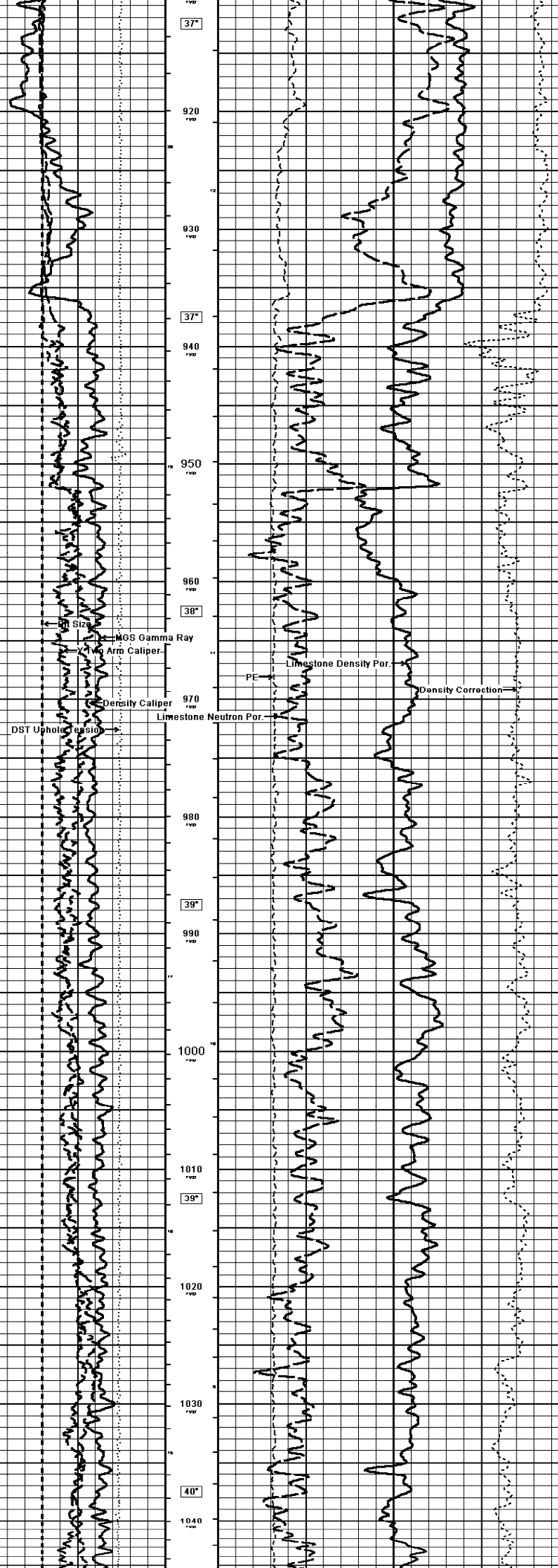
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any

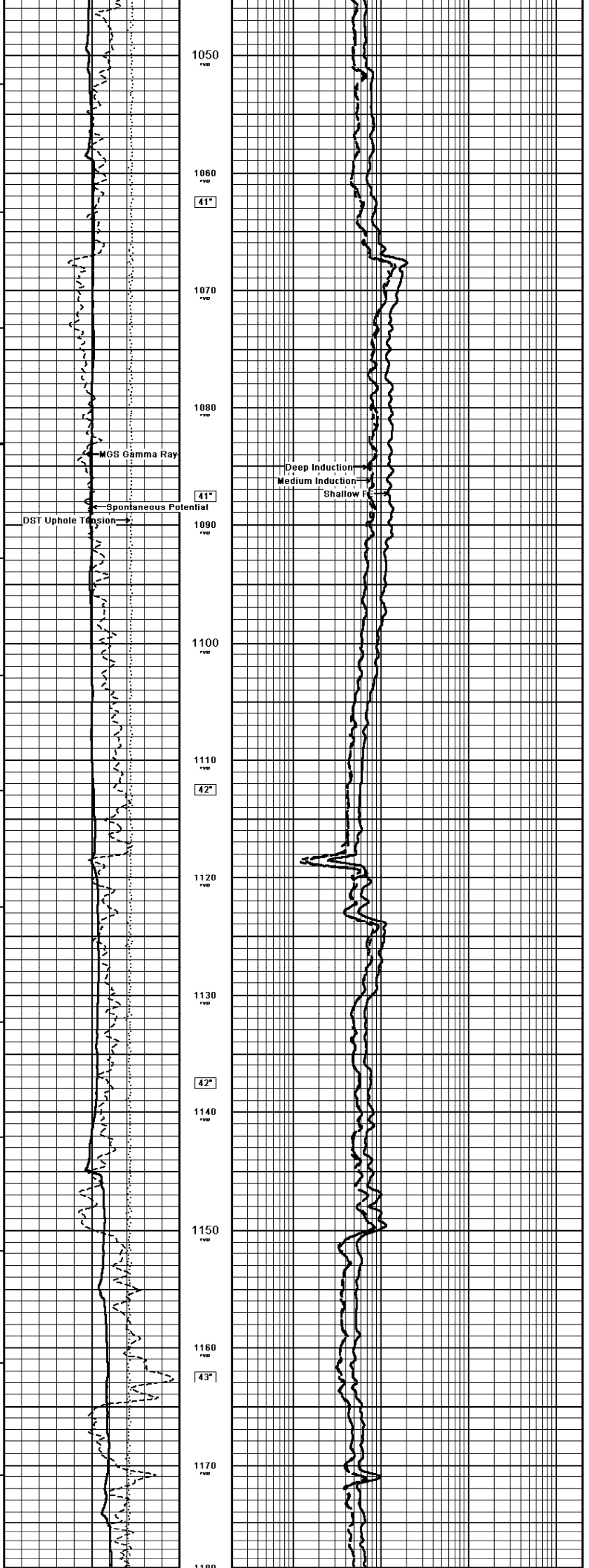
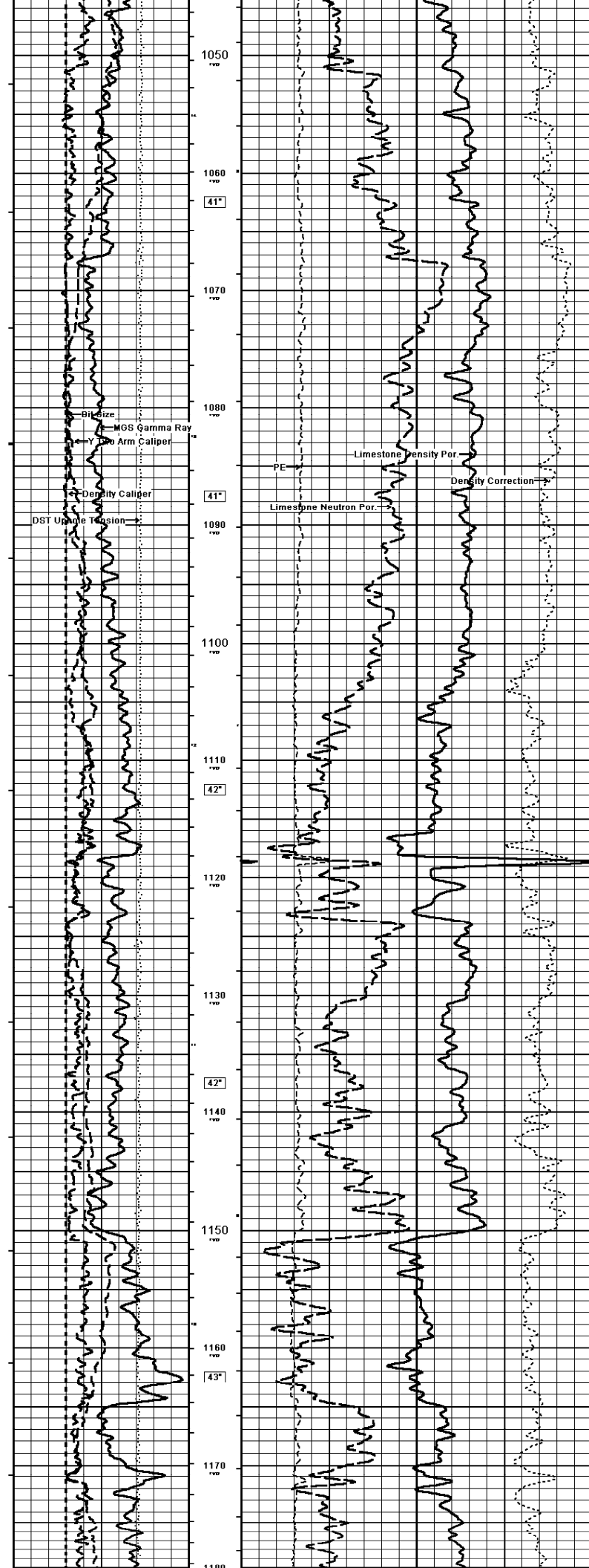


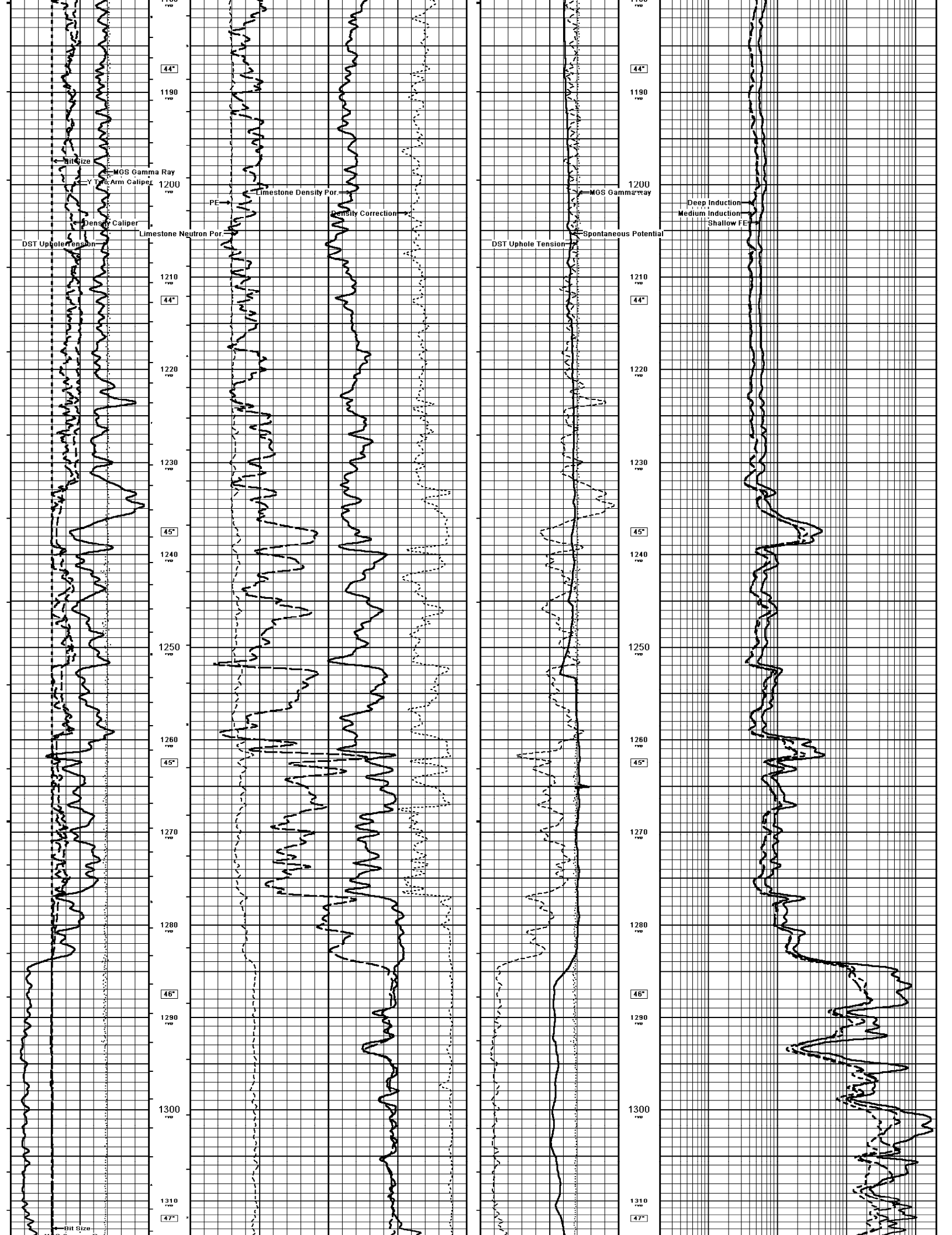


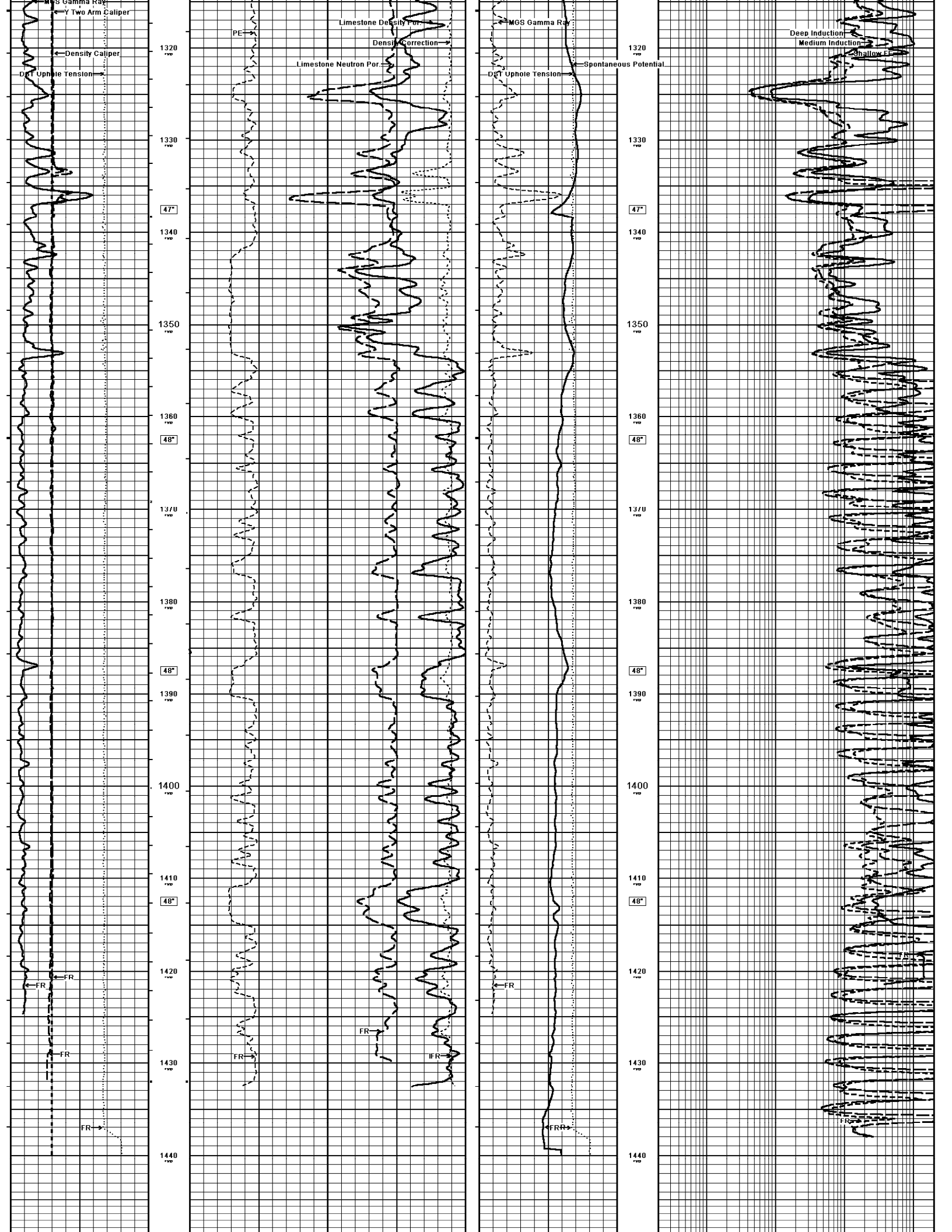


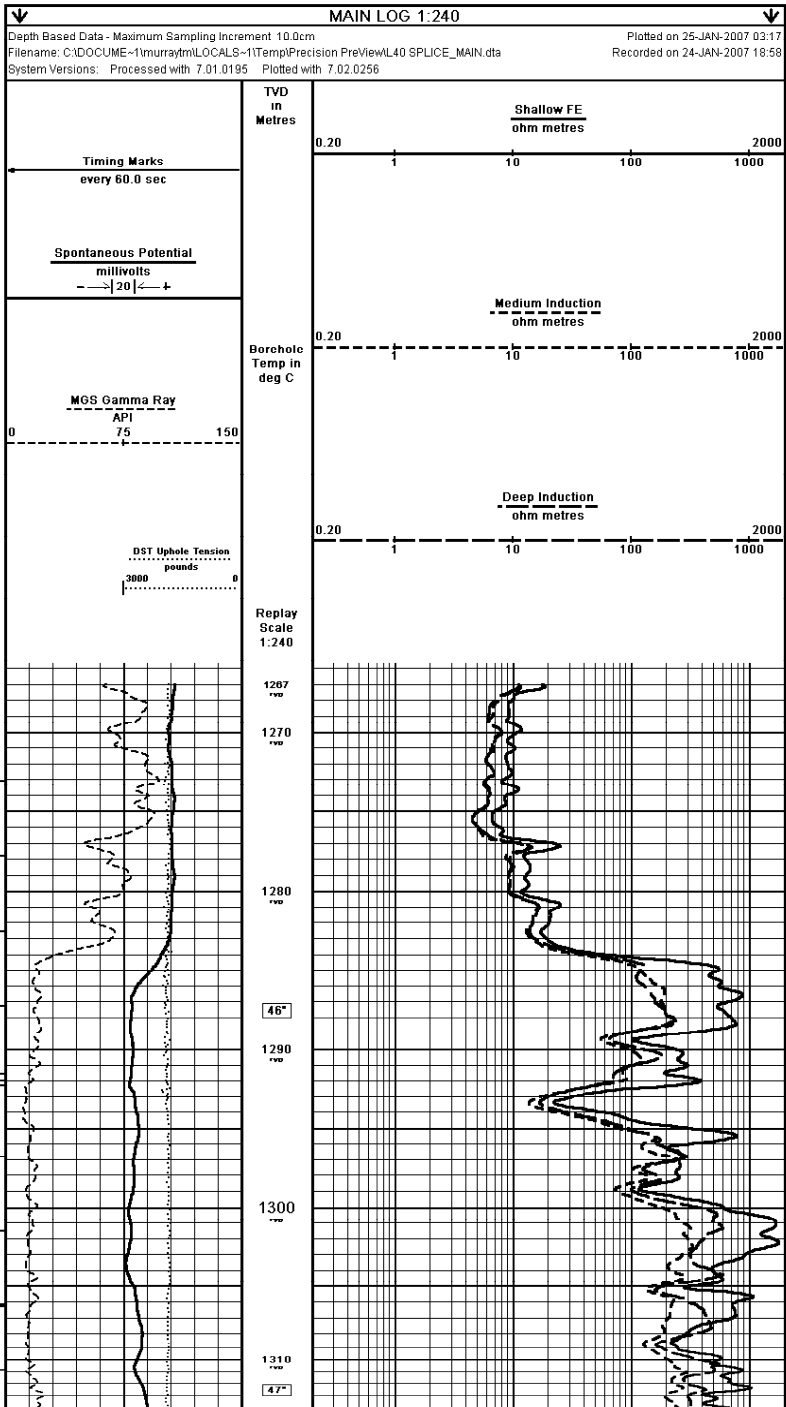
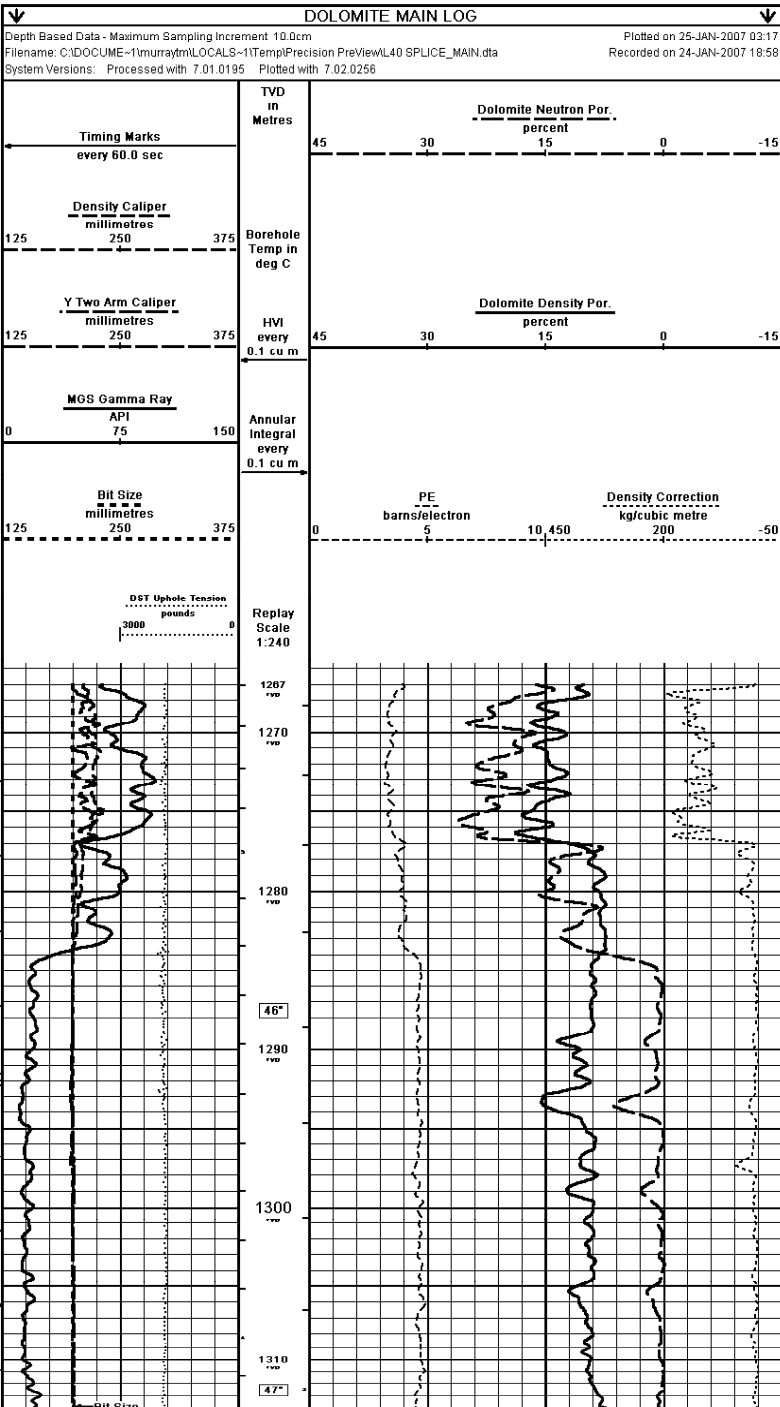
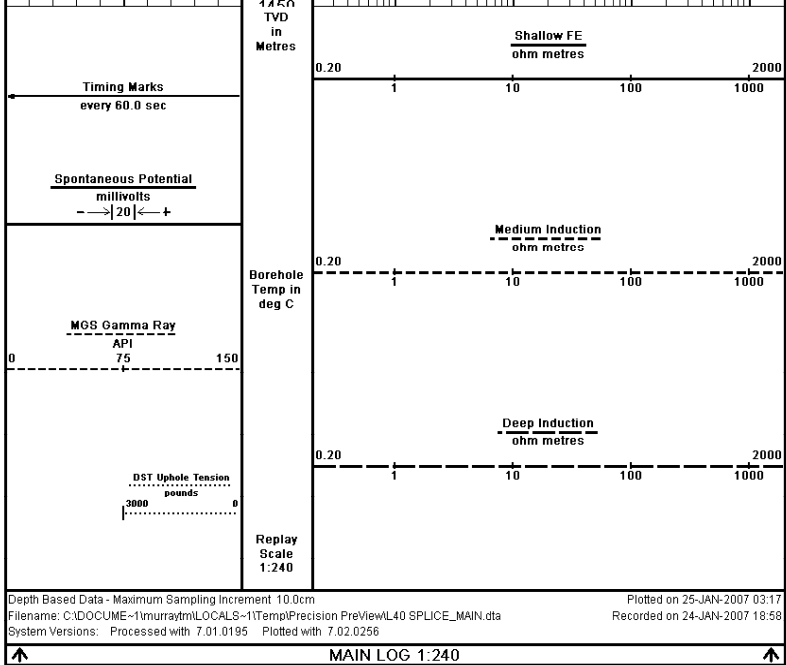
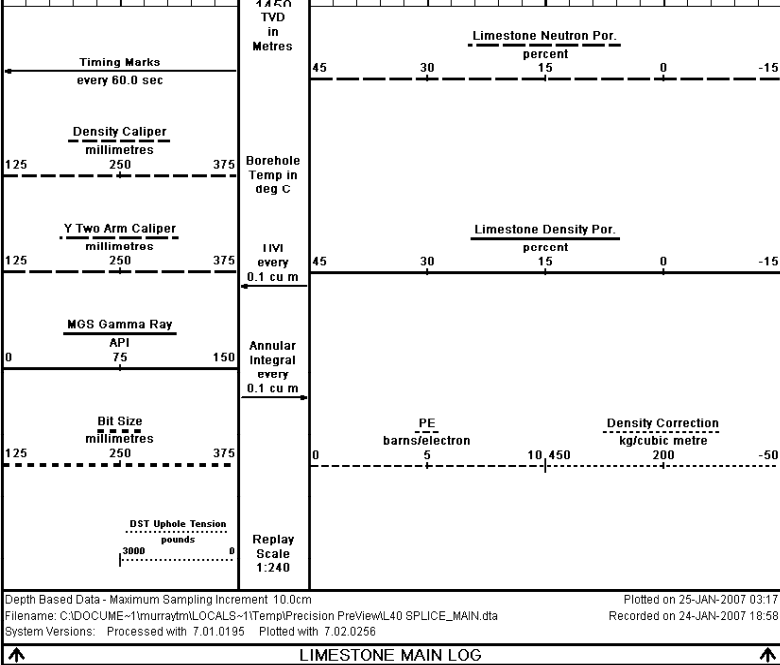


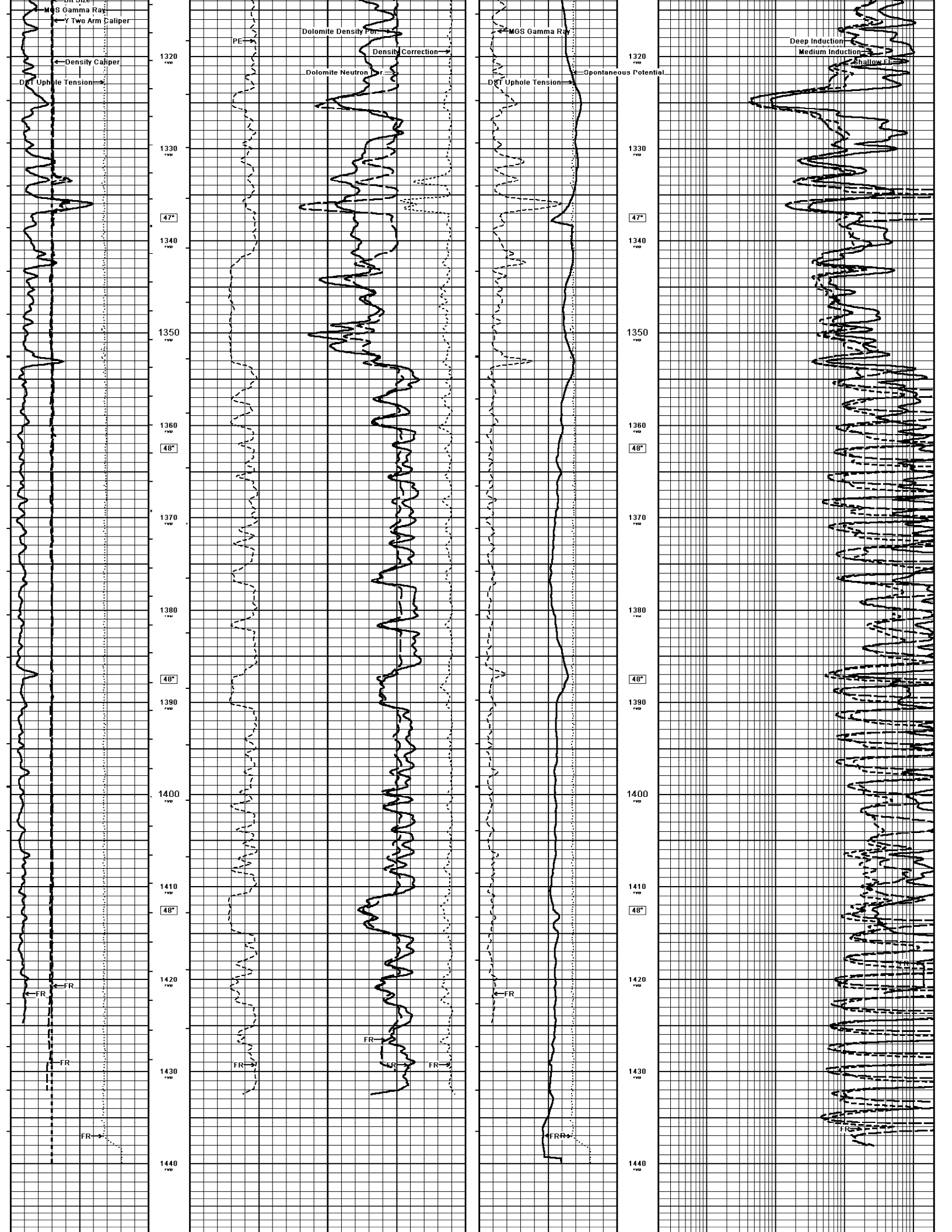


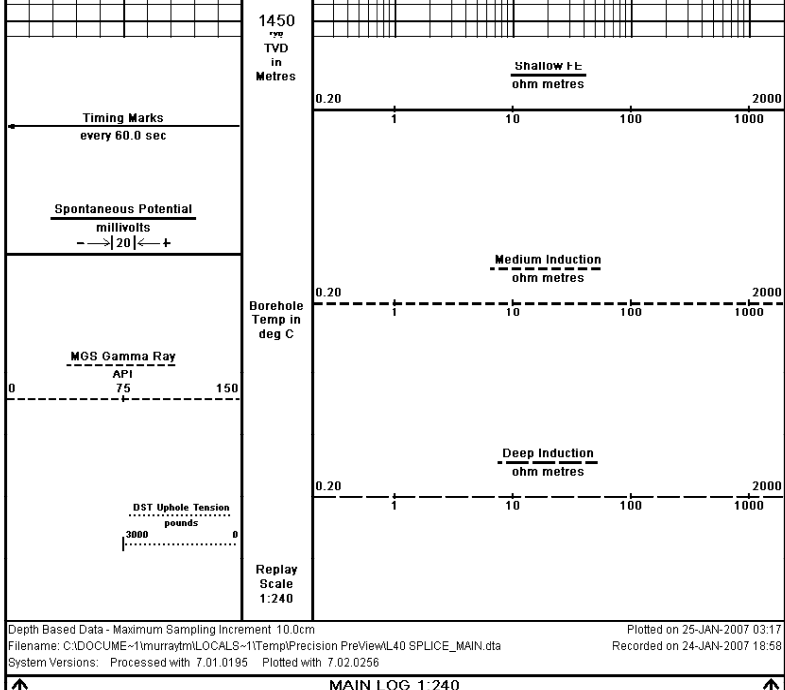
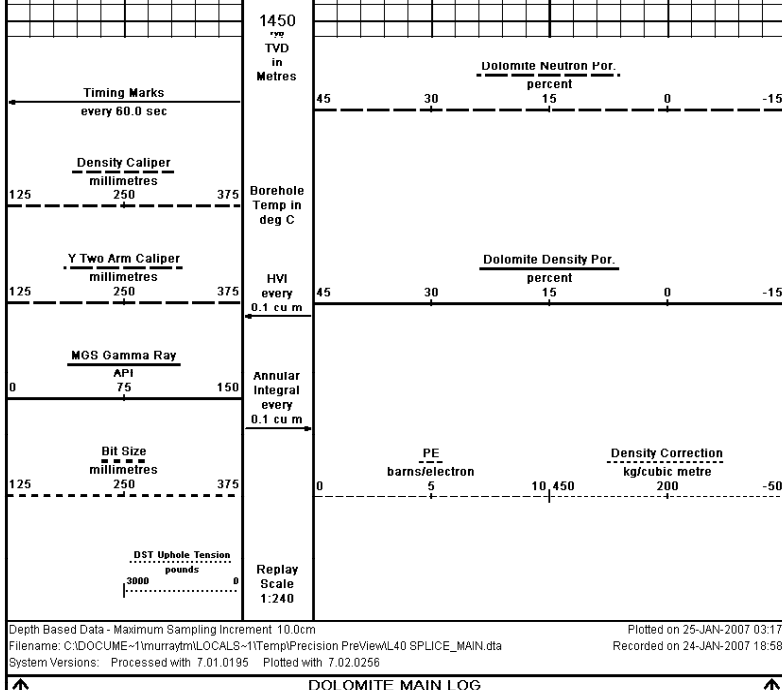












TVD TABLE					
Last Edited: 23-JAN-2007 22:19					
Logged Depth metres	True Depth metres	Logged Depth metres	True Depth metres	Logged Depth metres	True Depth metres
425.00	425.00	675.34	672.52	1079.75	1070.34
429.70	429.70	694.15	690.99	1089.14	1079.61
439.08	439.08	712.95	709.44	1098.88	1089.23
448.47	448.47	731.72	727.88	1108.29	1098.52
458.20	458.20	750.10	745.96	1117.68	1107.79
467.57	467.56	769.28	764.83	1127.08	1117.07
476.97	476.94	788.03	783.28	1136.49	1126.35
486.36	486.29	806.79	801.74	1145.90	1135.63
495.76	495.64	825.57	820.17	1155.29	1144.88
505.49	505.29	844.70	838.93	1164.71	1154.14
514.87	514.59	863.50	857.40	1174.14	1163.40
524.28	523.90	882.31	875.92	1183.53	1172.61
533.68	533.19	901.12	894.46	1192.93	1181.82
543.08	542.46	910.54	903.74	1202.33	1191.03
553.19	552.42	929.36	922.28	1211.75	1200.26
562.58	561.64	948.16	940.79	1221.34	1209.63
572.00	570.88	957.58	950.08	1230.69	1218.77
581.39	580.08	966.43	958.80	1249.30	1236.96
590.76	589.26	976.02	968.25	1296.36	1283.07
600.16	598.49	985.75	977.84	1324.55	1310.74
609.55	607.71	995.17	987.12	1352.98	1338.66
618.95	616.96	1004.59	996.39	1381.18	1366.38
628.33	626.19	1013.98	1005.63	1409.41	1394.19
637.75	635.47	1032.78	1024.11	1437.00	1421.43
647.13	644.73	1051.58	1042.59	1453.00	1437.24
656.52	654.00	1070.37	1061.09		

BEFORE SURVEY CALIBRATION		
C:\DOCUME~1\murraytm\LOCALS~1\Temp\Precision PreView\40PARAQUINTRPT2.dta		
General Constants All 000		Last Edited on 23-JAN-2007,22:35
General Parameters		
Mud Resistivity	0.600	ohm-metres
Mud Resistivity Temperature	25.000	degrees C
Water Level	0.000	metres
Density/Neutron Processing	Wet Hole	
Hole/Annular Volume and Differential Caliper Parameters		

HVOL Caliper 1	Density Caliper	
HVOL Caliper 2	Y Two Arm Caliper	
Annular Volume Diameter	139.700	mm
Caliper for Differential Caliper	Density Caliper	
Rwa Parameters		
Porosity used	Base Density Porosity	
Resistivity used	Deep Induction	
RWA Constant A	0.610	
RWA Constant M	2.150	

Gamma Calibration MCG 131		Field Calibration on 8-JAN-2007,20:07
	Measured	Calibrated (API)
Background	46	30
Calibrator (Gross)	1264	824
Calibrator (Net)	1219	794

Gamma Constants MCG 131		Last Edited on 24-JAN-2007,19:31
Gamma Calibrator Number	GRC 095	
Mud Density	1110.00	kg/m3
Caliper Source for Processing	Density Caliper	
Tool Position	Centred	
Concentration of KCl	0.00	kppm

SP Calibration MCG 131		Field Calibration on 18-JAN-2007 08:47
	Measured	Calibrated (mV)
Reference 1	100.6	100.0
Reference 2	-100.0	-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 038		Base Calibration on 4-DEC-2006 15:24 Field Check on 23-JAN-2007,22:36
Base Calibration		
	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	974.1	126.8
Base Check		278.0
Field Check		278.7

FE Constants MFE 038		Last Edited on 15-DEC-2006,13:39
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 037		Base Calibration on 11-JAN-2007 22:22 Field Calibration on 22-JAN-2007,06:17
Base Calibration		
Reading No	Measured	Calibrator Size (mm)
1	15375	110.00
2	18236	162.00
3	21038	212.00
4	23830	262.00
5	26651	311.00
6	N/A	N/A
Field Calibration		
	Measured Caliper (mm)	Actual Caliper (mm)
	167.00	166.00

Gamma Calibration MGS 029			Field Calibration on 18-JAN-2007,10:05	
	Measured	Calibrated (API)		
Background	58	38		
Calibrator (Gross)	1286	832		
Calibrator (Net)	1228	794		
Gamma Constants MGS 029			Last Edited on 24-JAN-2007,03:16	
Gamma Calibrator Number	GRCC095			
Mud Density	1110.00	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 25-NOV-2006 12:45 Field Calibration on 6-JAN-2007,05:52	
Base Calibration				
Reading No	Measured	Calibrator Size (mm)		
1	14823	162.00		
2	18001	212.00		
3	21431	262.00		
4	25325	311.00		
5	0	0.00		
6	N/A	N/A		
Field Calibration				
	Measured Caliper (mm)	Actual Caliper (mm)		
	200.60	205.70		
Micro Normal and Micro Inverse Calibration MMR 031			Base Calibration on 25-NOV-2006,12:58 Field Check on 23-JAN-2007 22:10	
Base Calibration				
	Measured		Calibrated (ohm-m)	
Channel	Resistor 1	Resistor 2	Resistor 1	Resistor 2
Micro Normal	9.9	49.1	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		94.7	
Micro Inverse	61.5		61.5	
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 23-JAN-2007 22:05

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)
	2511 3822
Ratio	0.657

Neutron Constants MDN 016

Last Edited on 15-JAN-2007,07:16

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 19-JAN-2007,19:16

Field Check on 23-JAN-2007 22:00

Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	71274	37606	60352	31615
Reference 2	29326	2540	25043	2540

Field Check at Base

0.0 0.0

Field Check

741.6 865.3

PE Calibration

Base Calibration	Measured			Calibrated
	WS	WH	Ratio	Ratio
Background	133	653		
Reference 1	29377	71091	0.415	0.400
Reference 2	7941	29220	0.273	0.272

Field Check at Base

133.0 649.2

Field Check

134.6 655.5

Density Constants MPD 093

Last Edited on 24-JAN-2007,03:16

Density Source Id	16151b
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	1110.00	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

Caliper Calibration MPD 093

Base Calibration on 11-JAN-2007 21:58
Field Calibration on 22-JAN-2007,06:17

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)
166.00	165.00

Sonic Constants MSS 075

Last Edited on 18-JAN-2007,10:05

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" Wavetform 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 092

Base Calibration on 19-JAN-2007 19:26
Field Check on 23-JAN-2007 22:08

Base Calibration

Test Loop Calibration

Channel	Measured		Calibrated (mmho/m)	
	Low	High	Low	High
1	17.5	473.2	9.3	966.2
2	5.9	374.5	7.6	821.4
3	2.8	255.0	5.2	566.0
4	1.3	130.5	2.6	279.2

Array Temperature 23.9 Deg C

Channel	Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High
1	10.3	3853.0	6.5	3842.8
2	30.0	3605.8	28.7	3599.3
3	29.7	3109.7	28.9	3103.7
4	20.7	2116.7	20.6	2113.5
Deep	19.0	2017.4	18.7	2013.4
Medium	43.3	4115.3	42.3	4107.3
Shallow	43.5	5343.3	41.2	5333.9

Array Temperature 11.6 -16.7 Deg C

Induction Constants MAI 092

Last Edited on 20-JAN-2007,04:19

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	12.7000	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 092

Field Calibration on 13-SEP-2005,13:50

	Measured	Calibrated(Deg C)
Lower	1.00	1.00
Upper	50.00	50.00

High Resolution Temperature Constants MAI 092

Pre-filter Length 11

DOWNHOLE EQUIPMENT

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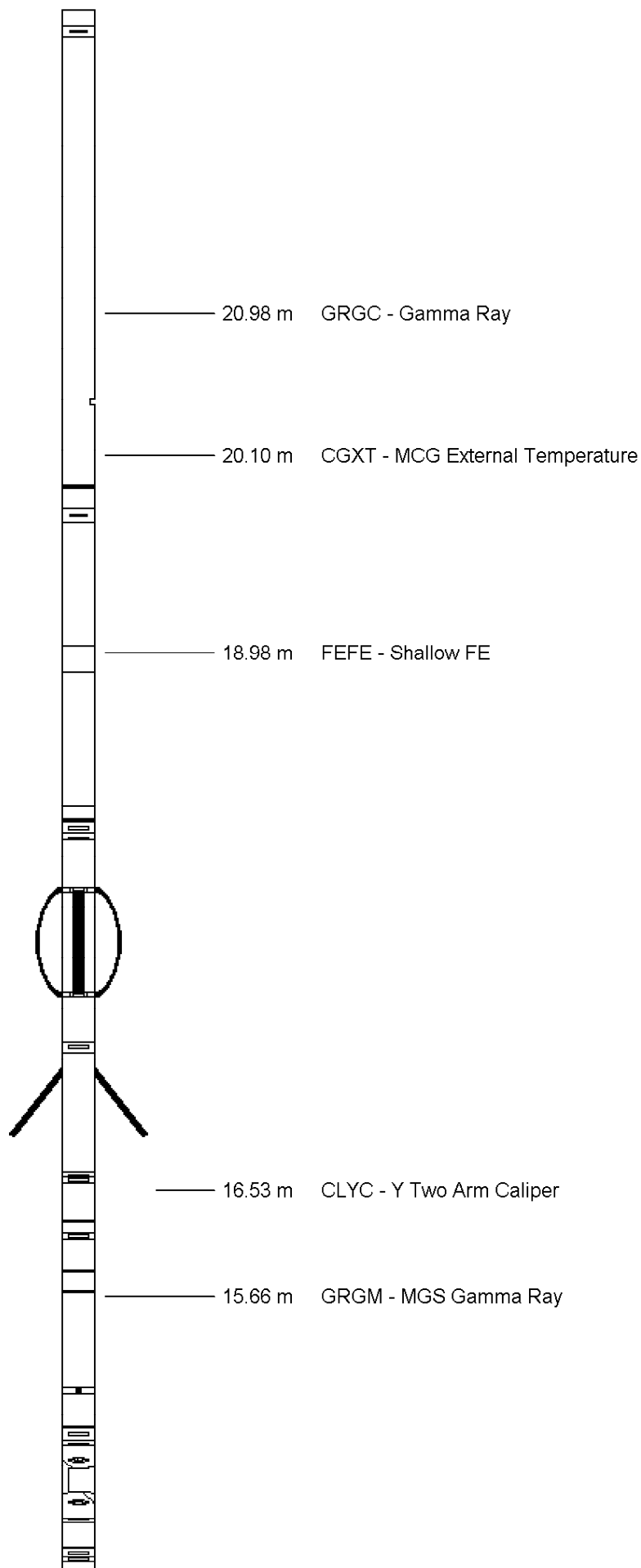
Compact Gamma
MCG 131 Length: 2.65 m Weight: 63.9 lb

Compact Focussed Electric
MFE 38 Length: 1.84 m Weight: 48.5 lb

Compact Two Arm Caliper
MTC 37 Length: 2.17 m Weight: 61.7 lb

Compact Short Gamma
MGS 29 Length: 1.04 m Weight: 24.3 lb

Compact InterSonde Crank
ISC 151 Length: 0.71 m Weight: 24.3 lb

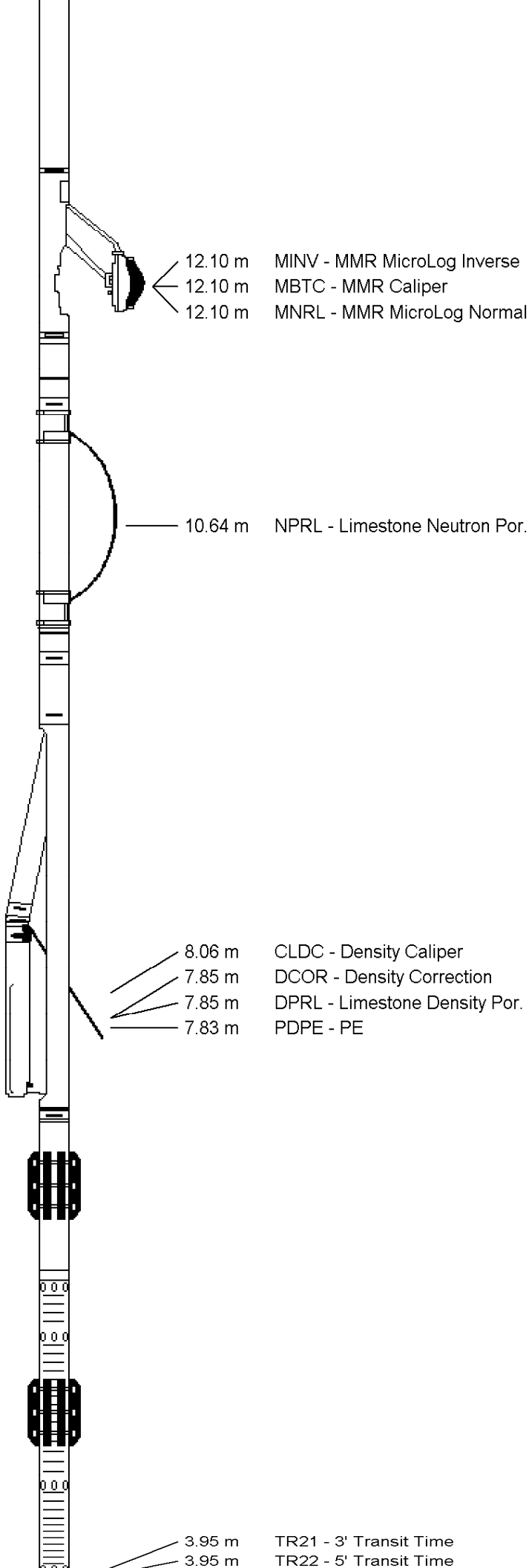


Compact Micro-Resistivity
MMR 31 Length: 2.62 m Weight: 81.6 lb

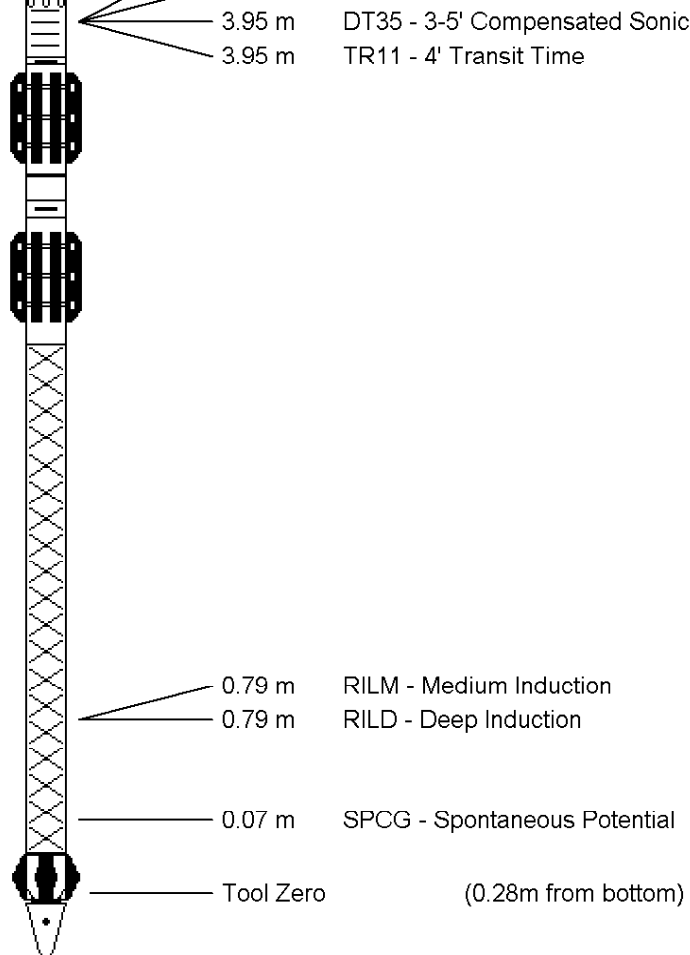
Compact Neutron
MDN 16 Length: 1.53 m Weight: 50.7 lb

Compact Density/Caliper
MPD 93 Length: 2.92 m Weight: 90.4 lb

Compact Sonic
MSS 75 Length: 3.82 m Weight: 72.8 lb



Compact Induction
MAI 92 Length: 3.29 m Weight: 48.5 lb



Compact Hole Finder
HFS 1 Length: 0.24 m Weight: 2.2 lb
Total Length: 22.83 m Weight: 568.8 lb

All measurements relative to tool zero.

COMPANY	PARAMOUNT RESOURCES LTD.
WELL	PARA ET AL CAMERON L40
FIELD	CAMERON HILLS
PROVINCE	NORTHWEST TERRITORIES
COUNTRY	CANADA

Elevation Kelly Bushing	690.10	metres	First Reading	1436.20	metre
Elevation Drill Floor		metres	Depth Driller	1437.20	metres
Elevation Ground Level	684.70	metres	Depth Logger	1437.50	metres



Weatherford®

TRUE VERTICAL DEPTH
MINILOT