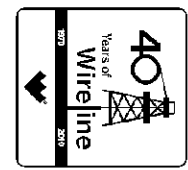




Weatherford[®]

**COMPACT PHOTO DENSITY
COMPENSATED NEUTRON
MICROLOG SONIC LOG**

COMPANY **SHORELINE ENERGY PARTNERS, LLC.**
WELL **SEIFERT 1-27**
FIELD **WILDCAT**
PROVINCE/COUNTY **HARPER**
COUNTRY/STATE **U.S.A. / KANSAS**
LOCATION **115' FNL & 150' FWL**



SEC **27** TWP **34S** RGE **5W** Other Services
API Number **15-077-21753**
Permit Number

Permanent Datum G.L., Elevation 1206 feet
Log Measured From K.B. @ 10 FEET above Permanent Datum
Drilling Measured From K.B.

Elevations: feet
KB 1216.00
DF 1214.00
GL 1206.00

Date	28-SEP-2011	
Run Number	ONE	
Depth Driller	5355.00	feet
Depth Logger	5352.00	feet
First Reading	5349.00	feet
Last Reading	348.00	feet
Casing Driller	350.00	feet
Casing Logger	348.00	feet
Bit Size	7.875	inches
Hole Fluid Type	GEL	
Density / Viscosity	9.00 lb/USg	67.00 CP
PH / Fluid Loss	9.00	13.80 ml/30Min
Sample Source	MUD PIT	
Rm @ Measured Temp	1.50 @ 82.0	ohm-m
Rmf @ Measured Temp	1.20 @ 82.0	ohm-m
Rmc @ Measured Temp	1.80 @ 82.0	ohm-m
Source Rmf / Rmc	CALC	CALC
Rm @ BHT	0.89 @ 137.0	ohm-m
Time Since Circulation	6 HOURS	
Max Recorded Temp	137.00	deg F
Equipment Name	COMPACT	
Equipment / Base	13226	OKC
Recorded By	B. ALLEN	
Witnessed By	C. PARKER	H. LEWIS

BOREHOLE RECORD

Last Edited: 28-SEP-2011 19:57

Bit Size inches	Depth From feet	Depth To feet
7.875	350.00	5355.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	8.625	0.00	350.00	29.00

REMARKS

TOOLS RAN: SHA, MCG, MML, MDN, MPD, MFE, MAI RAN IN COMBINATION

HARDWARE: MAI: TWO 0.5 INCH STANDOFFS USED.
MDN: DUAL NEUTRON BOW SPRINGS USED.
MPD: 8 INCH PROFILE PLATE USED.

2.71 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY
ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.

TOTAL HOLE VOLUME FROM TD TO 3300' = 950 CU.FT.
ANNULAR HOLE VOLUME WITH 5.5 INCH PRODUCTION CASING FROM TD TO 3300' = 610 CU.FT.

SERVICE ORDER # 3534146
RIG: LANDMARK DRILLING #6

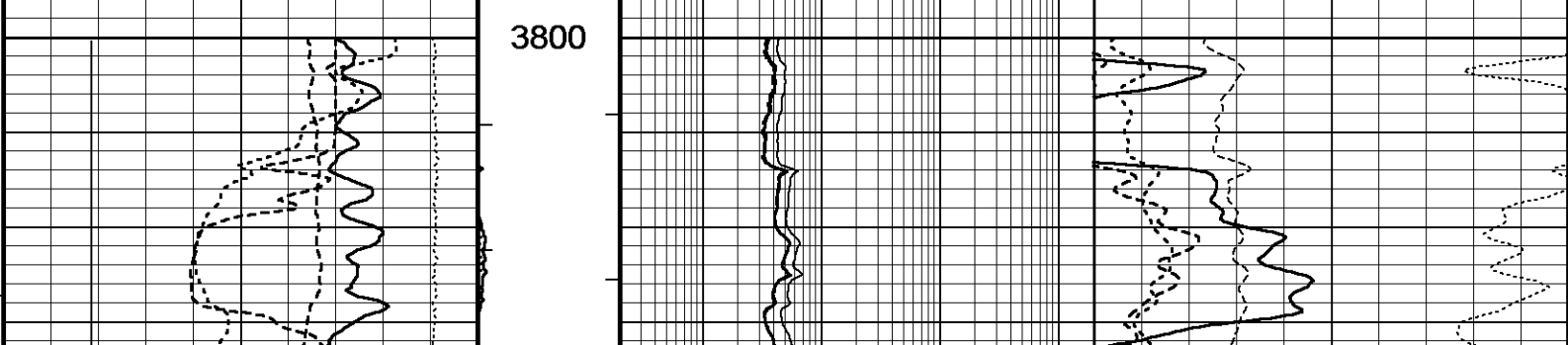
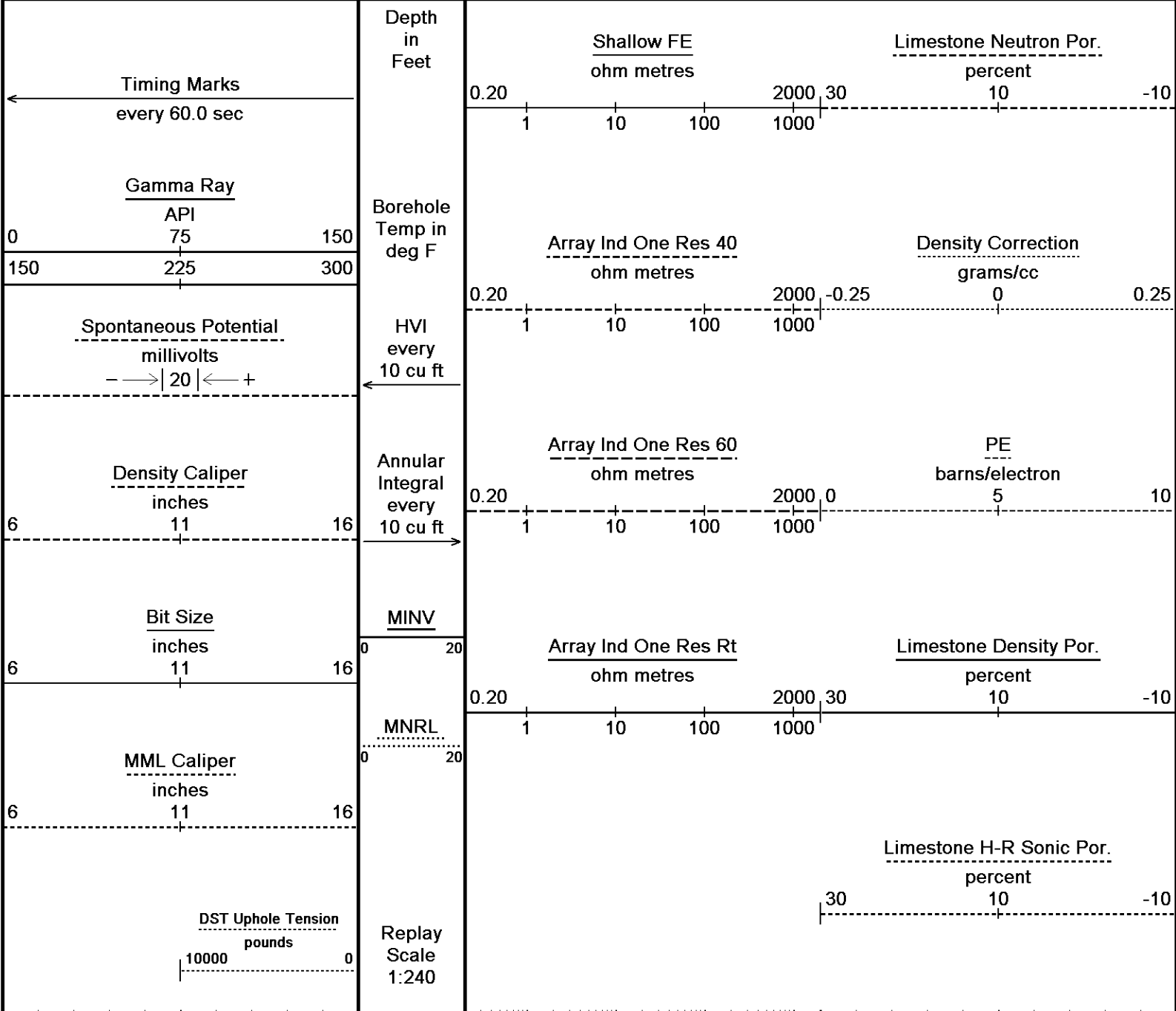
ENGINEER: B. ALLEN

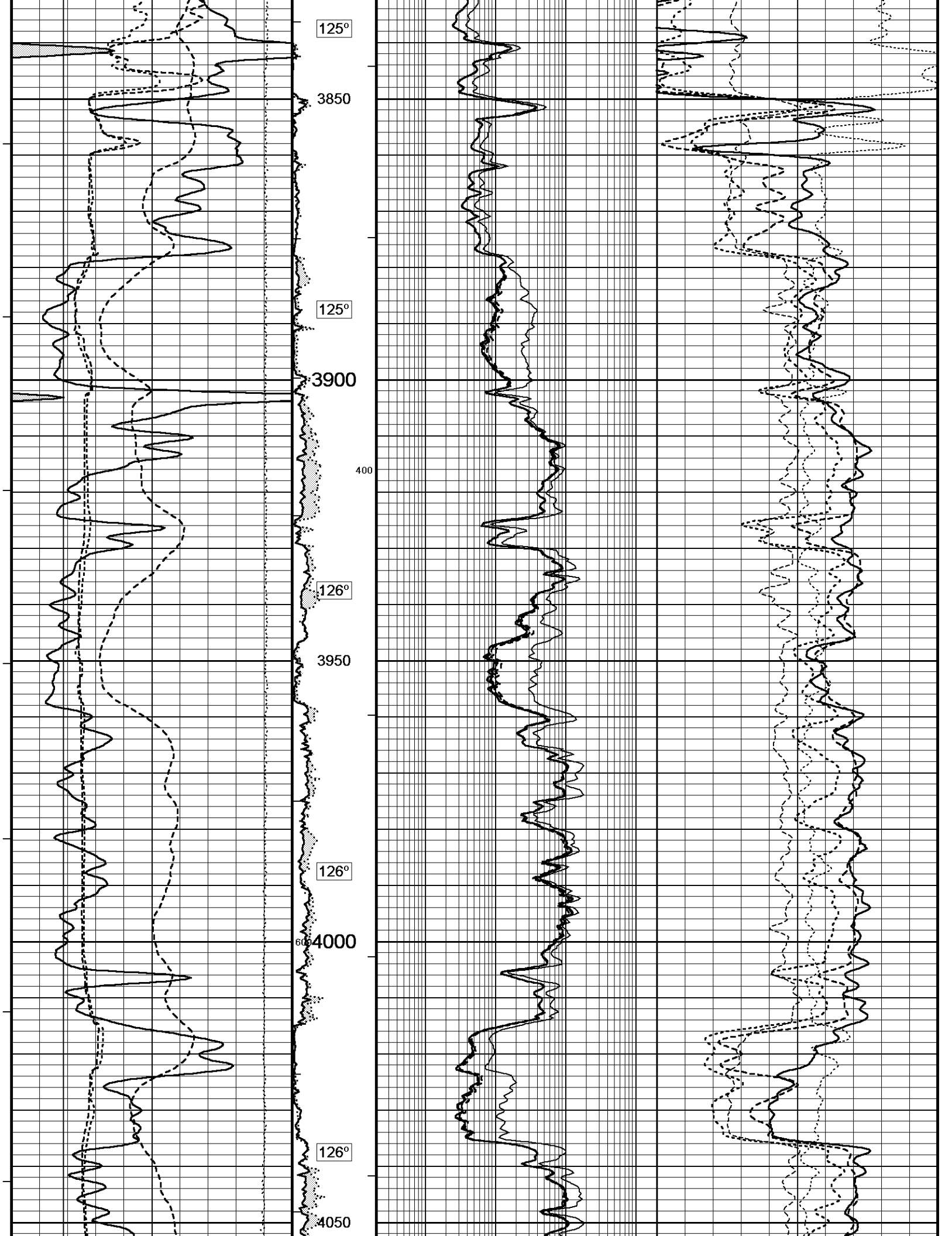
OPERATOR(S): R. POGUE

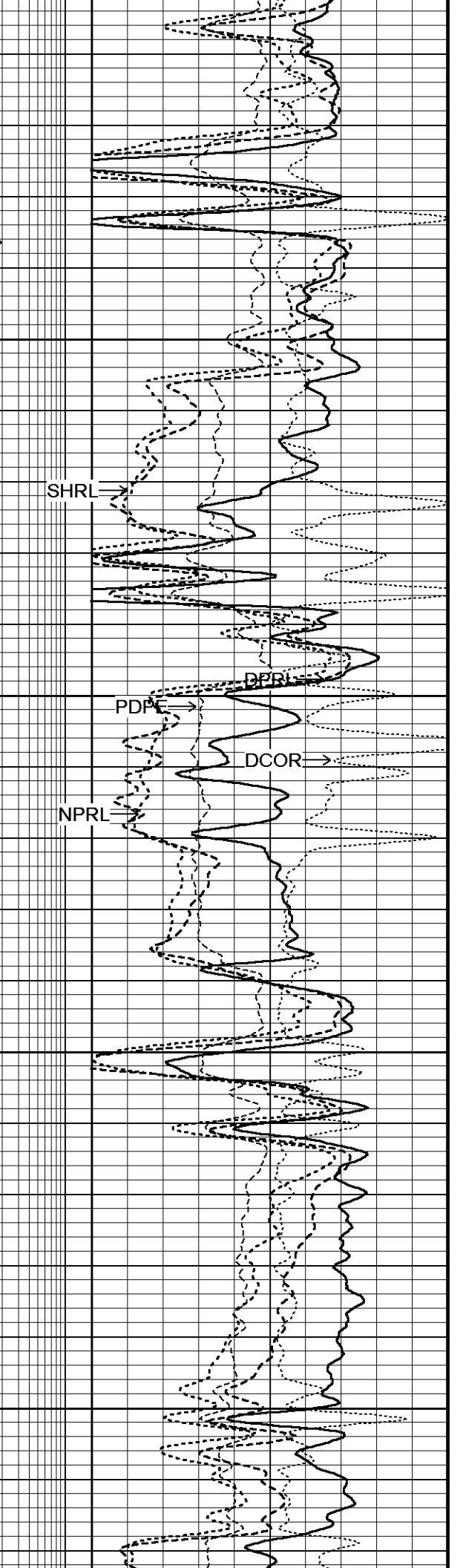
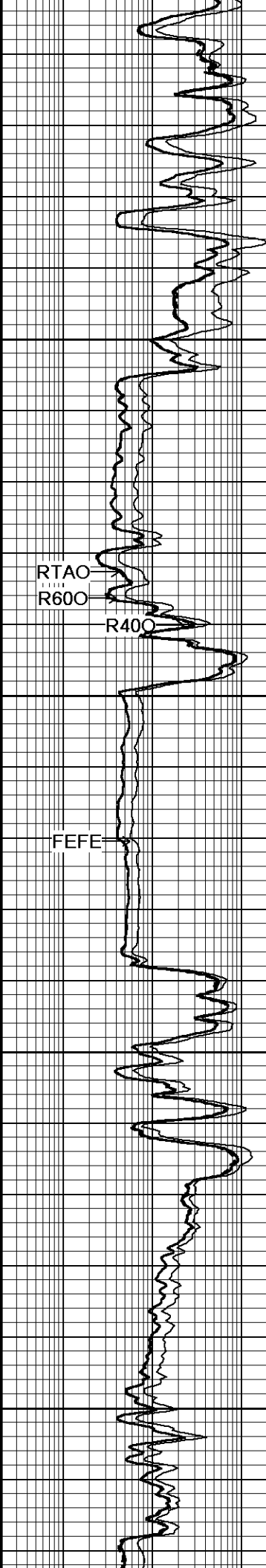
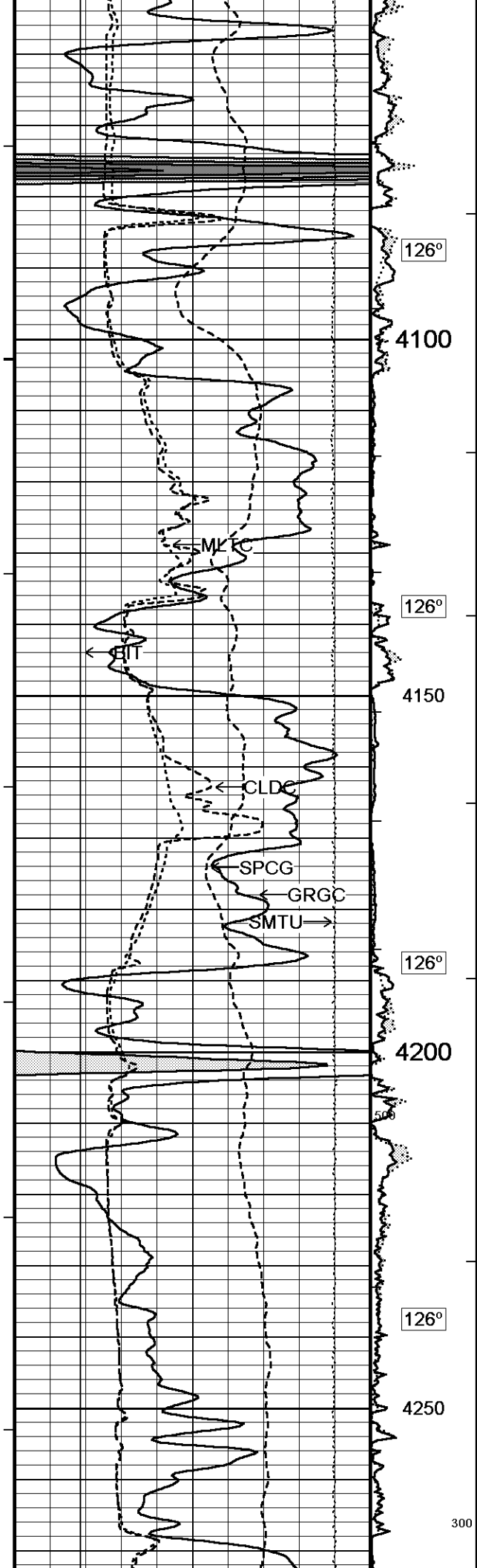
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

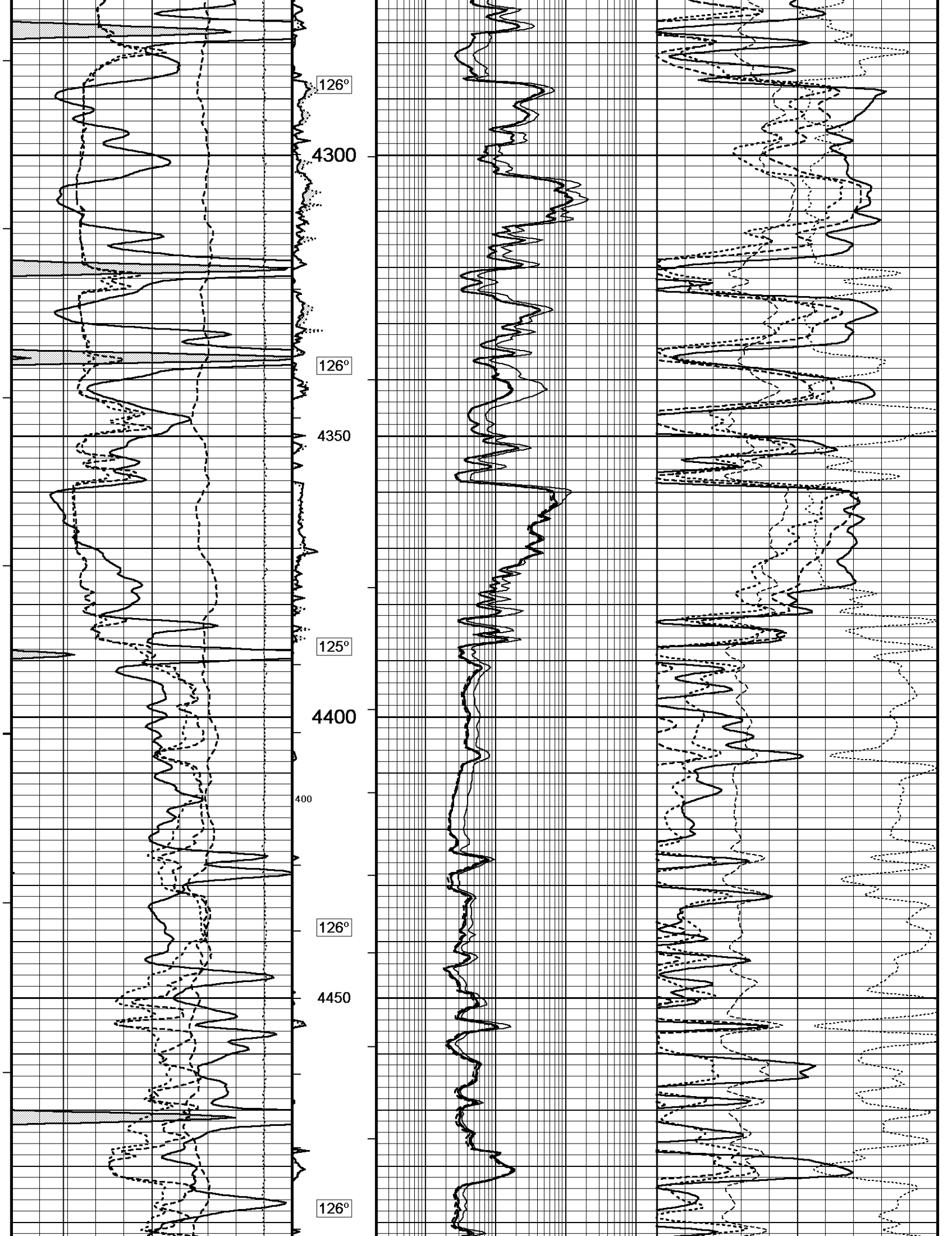
5 INCH MAIN LOG

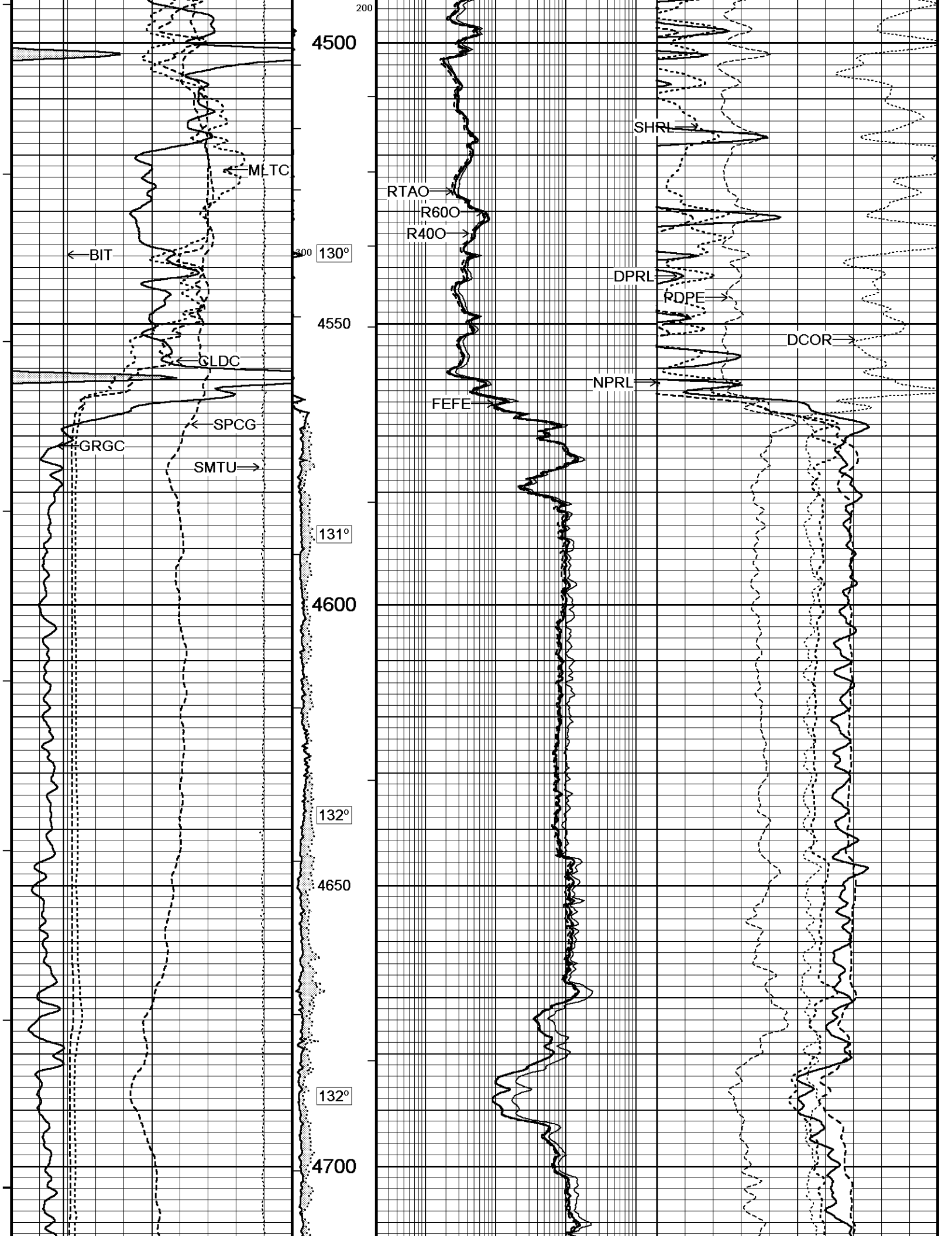
Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 29-SEP-2011 08:14
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 System Versions: Logged with 11.02.2782 Plotted with 12.01.3513

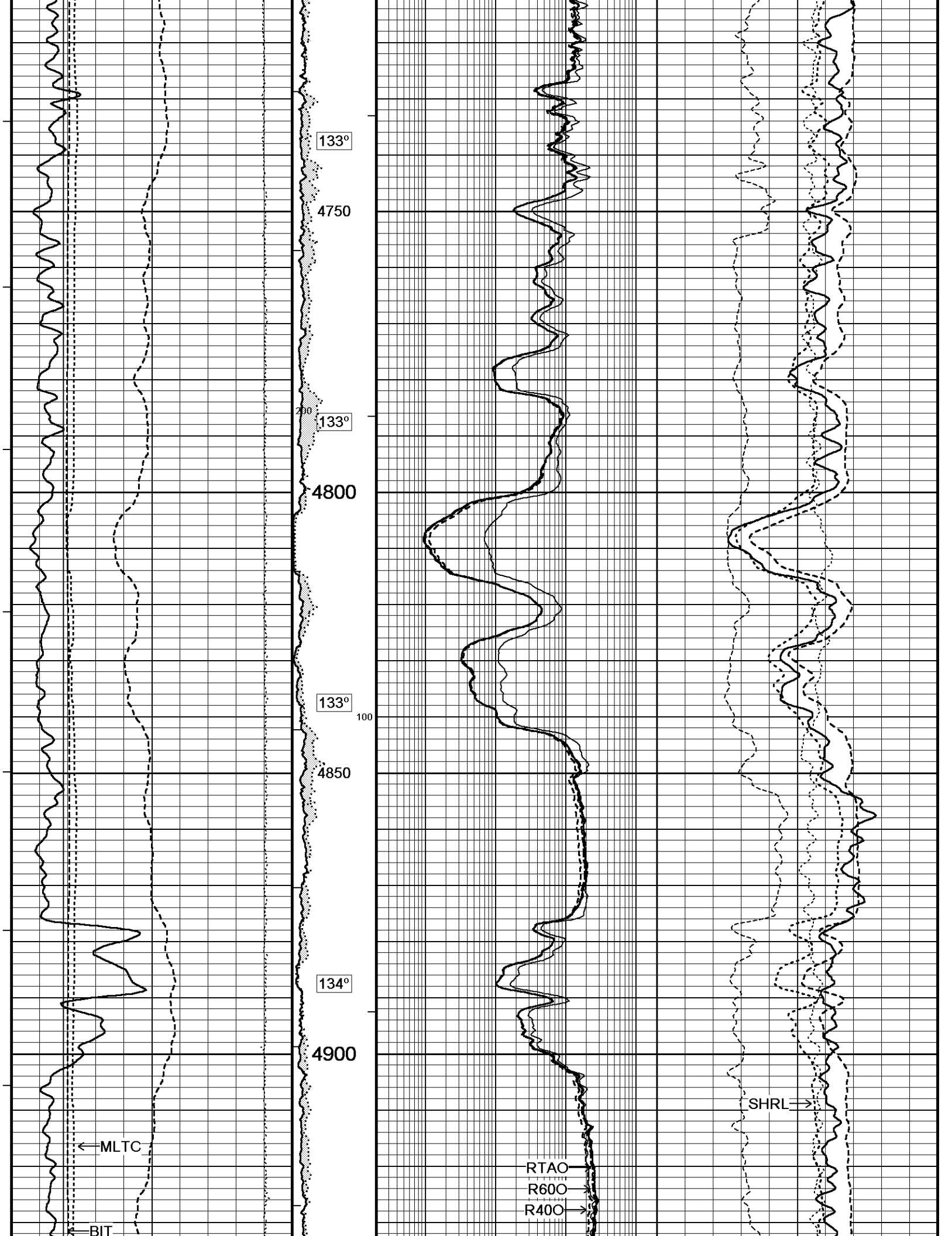


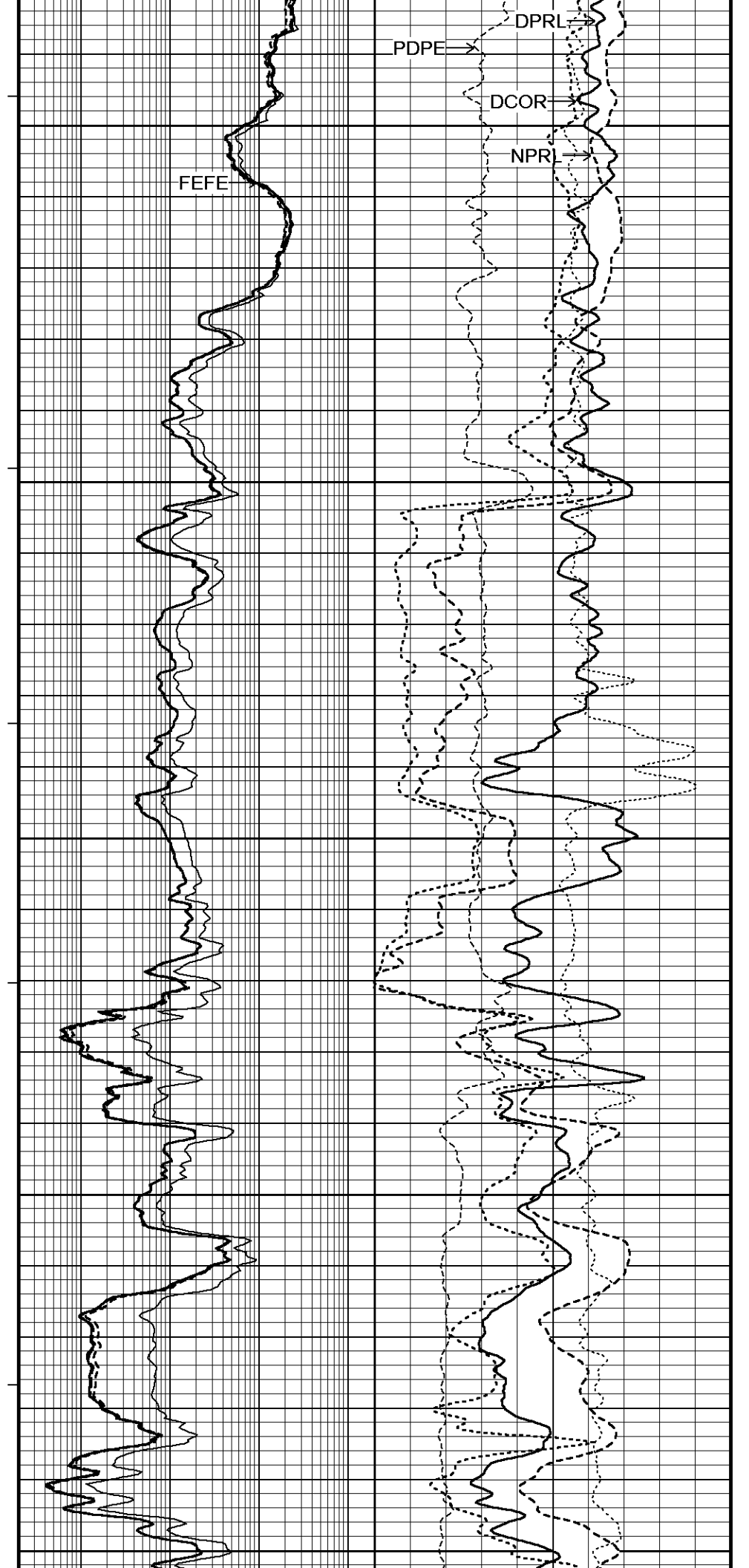
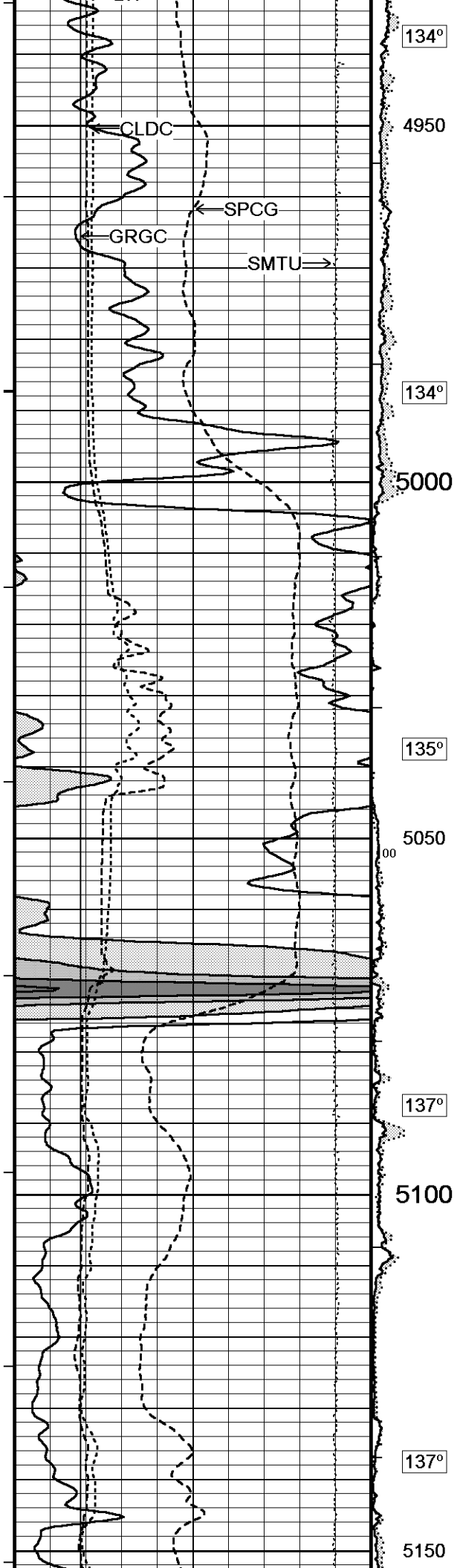


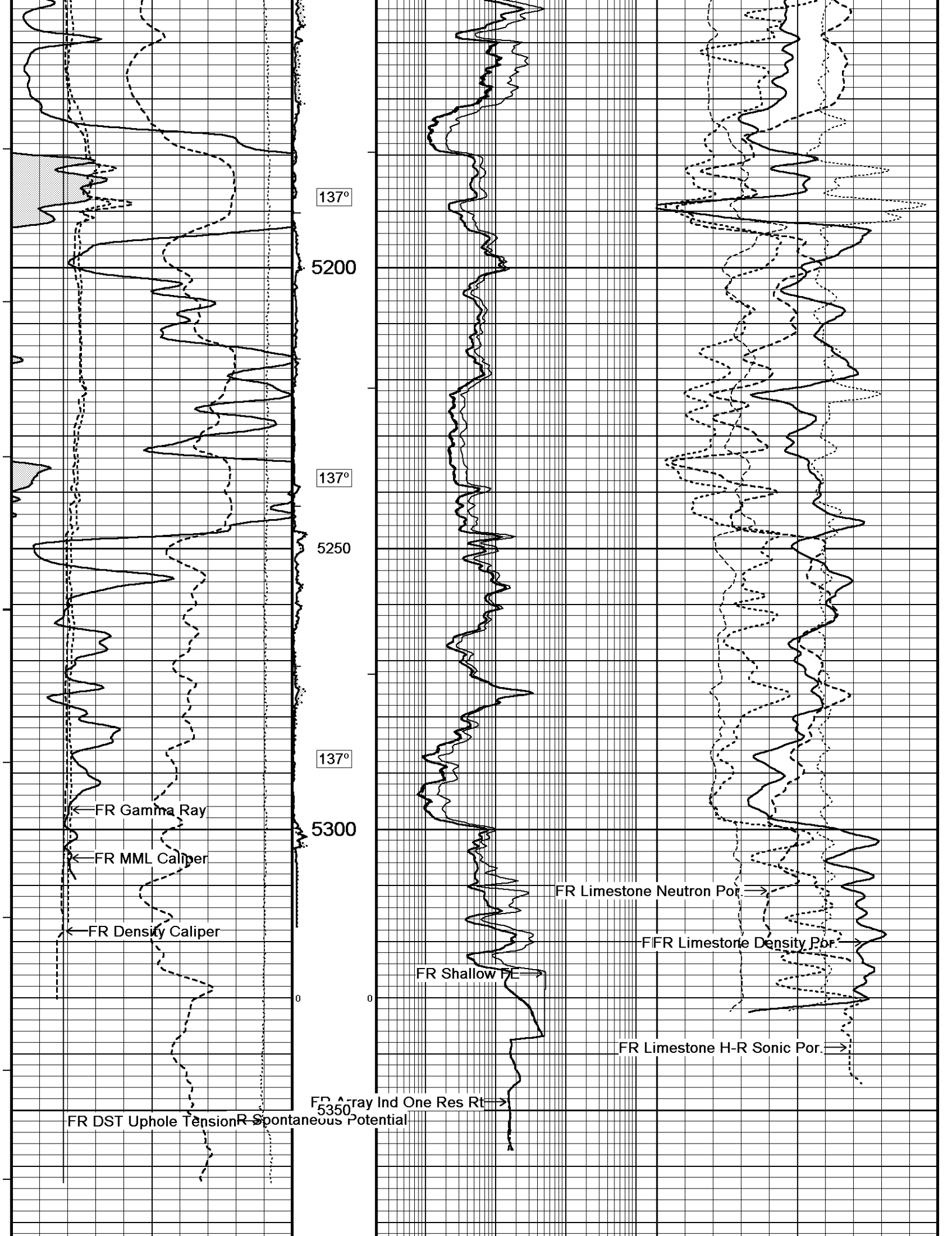












137°

5200

137°

5250

137°

5300

0

5350

← FR Gamma Ray

← FR MML Caliper

← FR Density Caliper

→ FR DST Uphole Tension

→ FR Spontaneous Potential

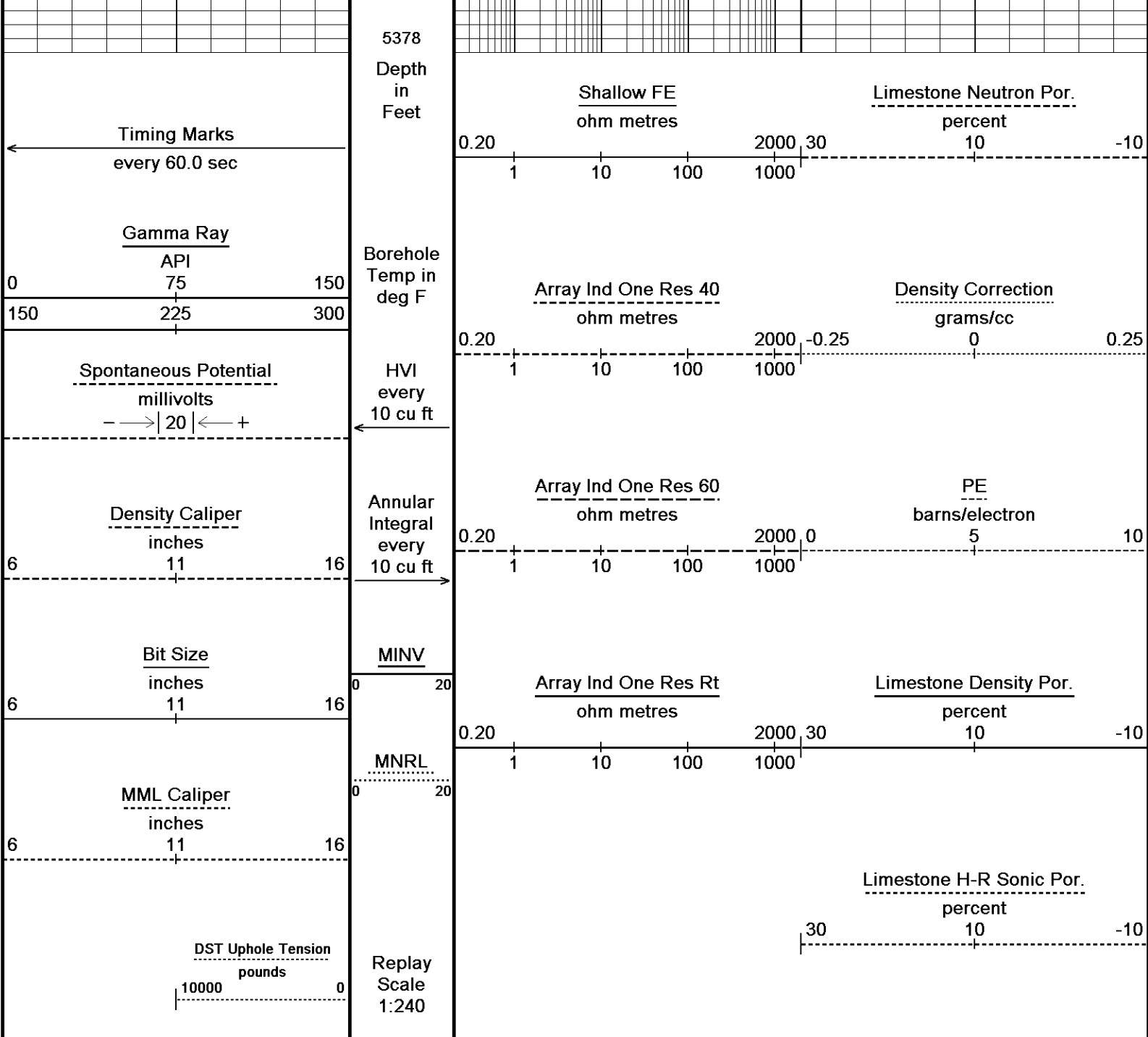
→ FR A-ray Ind One Res Rt

→ FR Shallow PE

→ FR Limestone Neutron Por.

→ FIFR Limestone Density Por.

→ FR Limestone H-R Sonic Por.

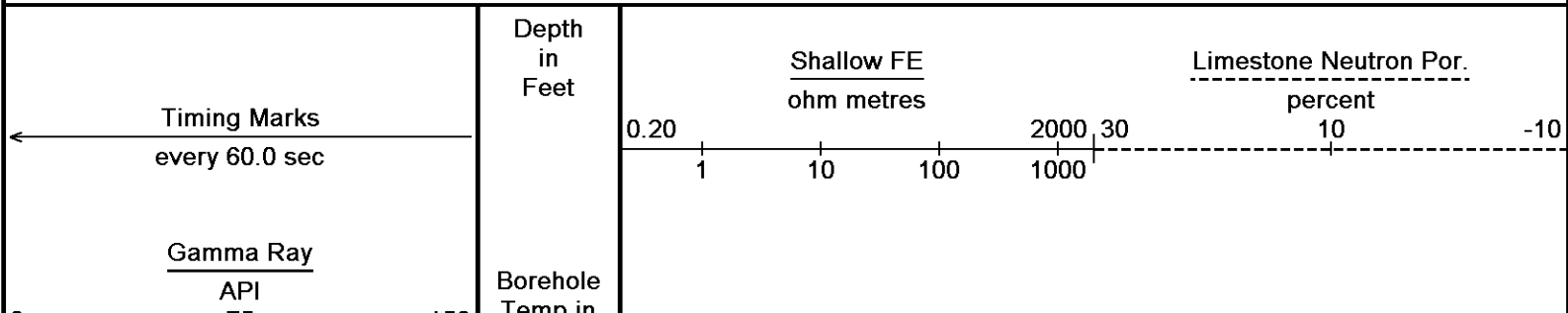


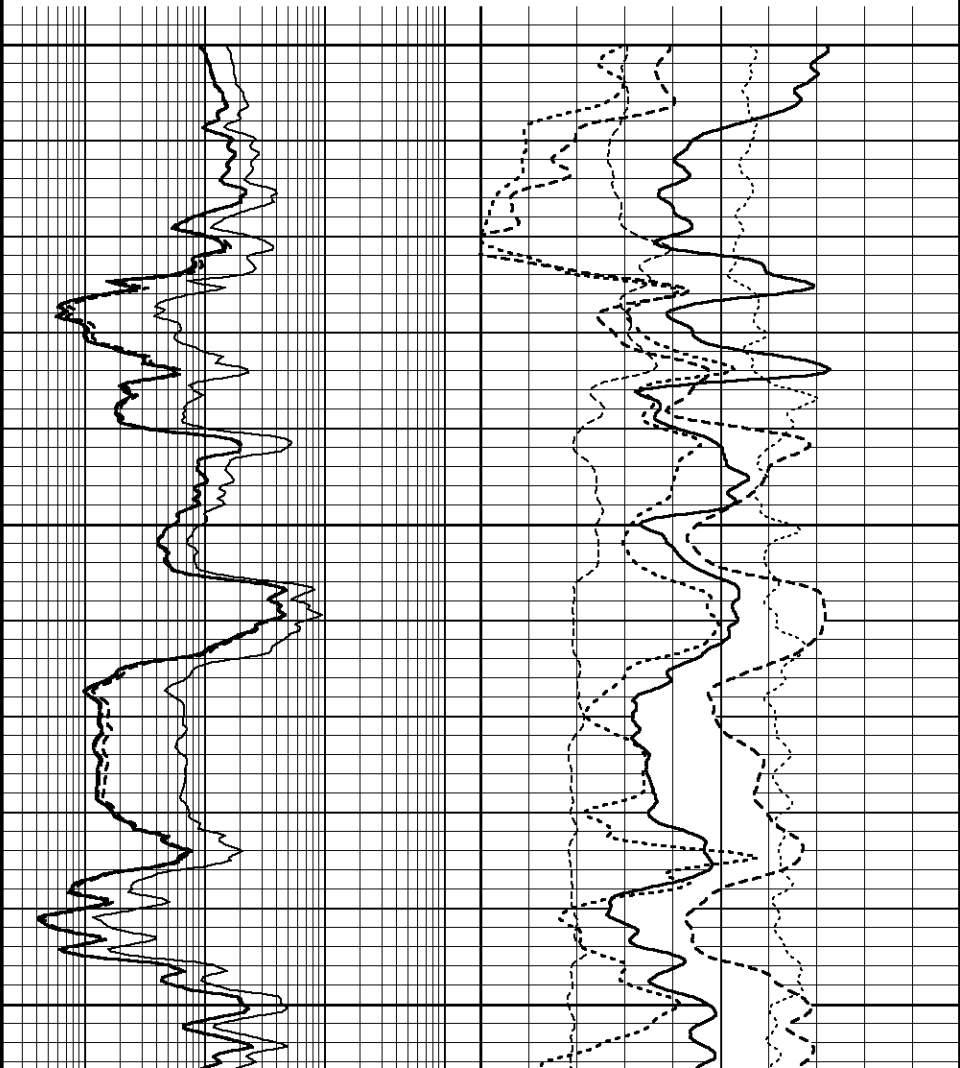
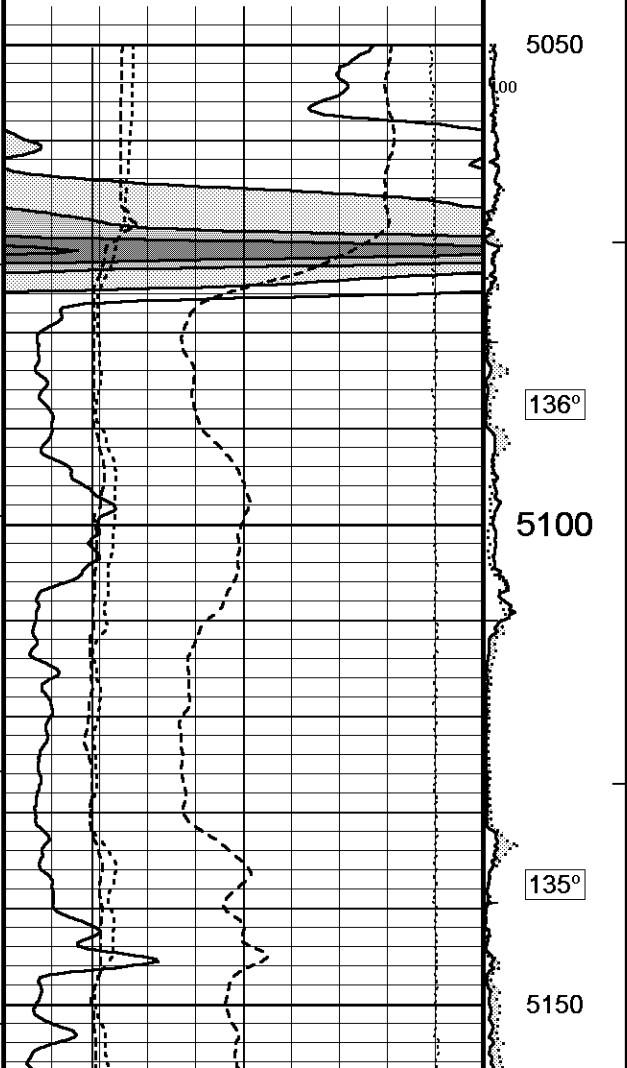
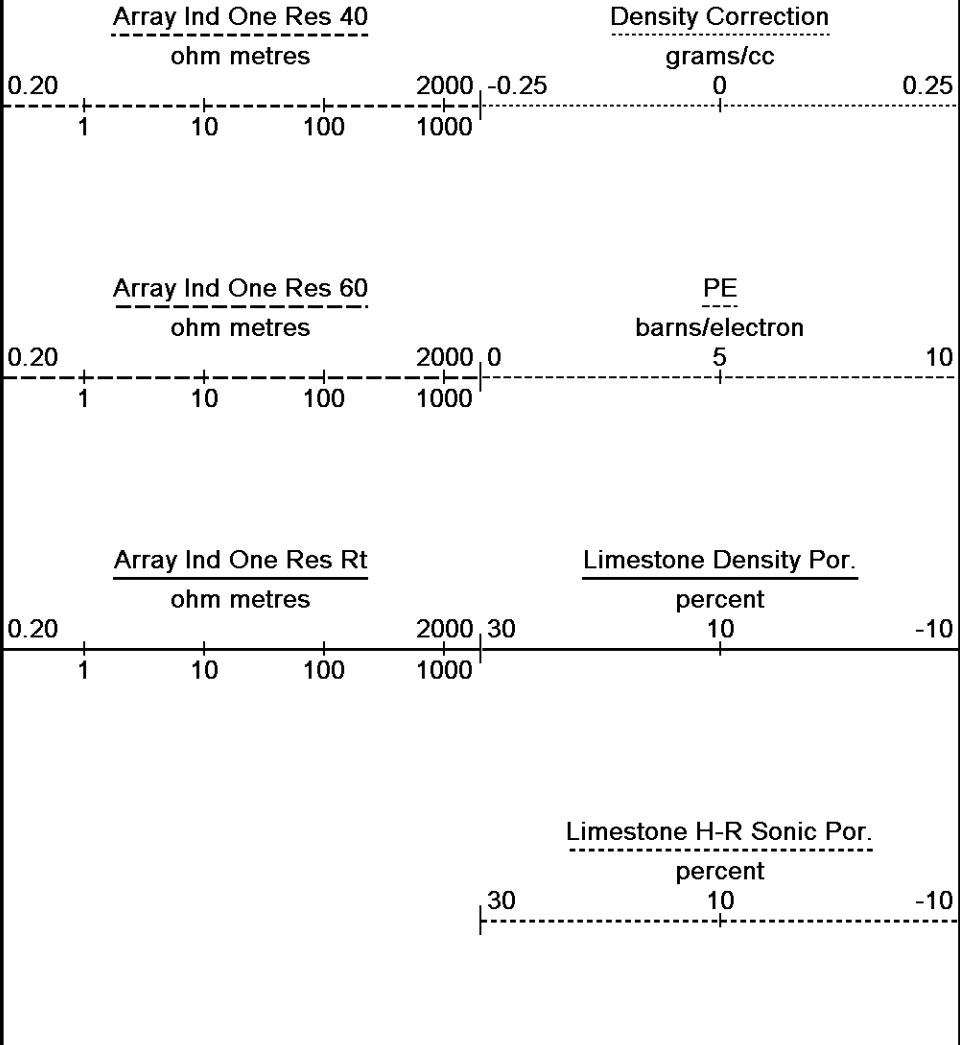
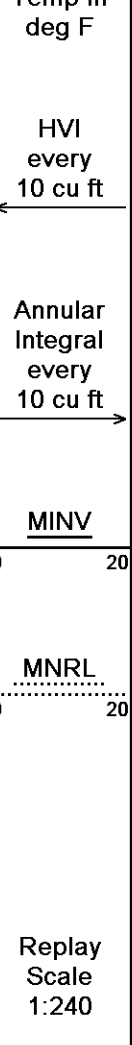
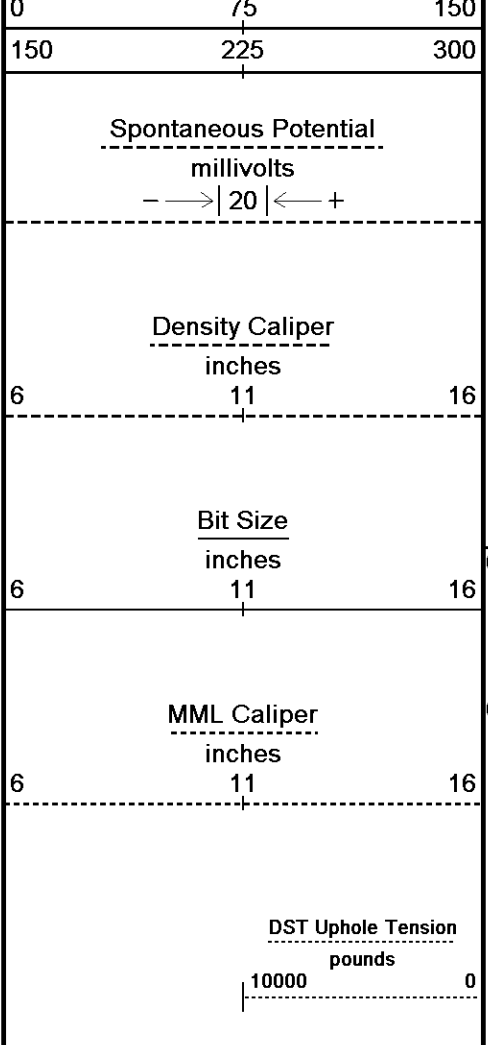
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 System Versions: Logged with 11.02.2782 Plotted with 12.01.3513

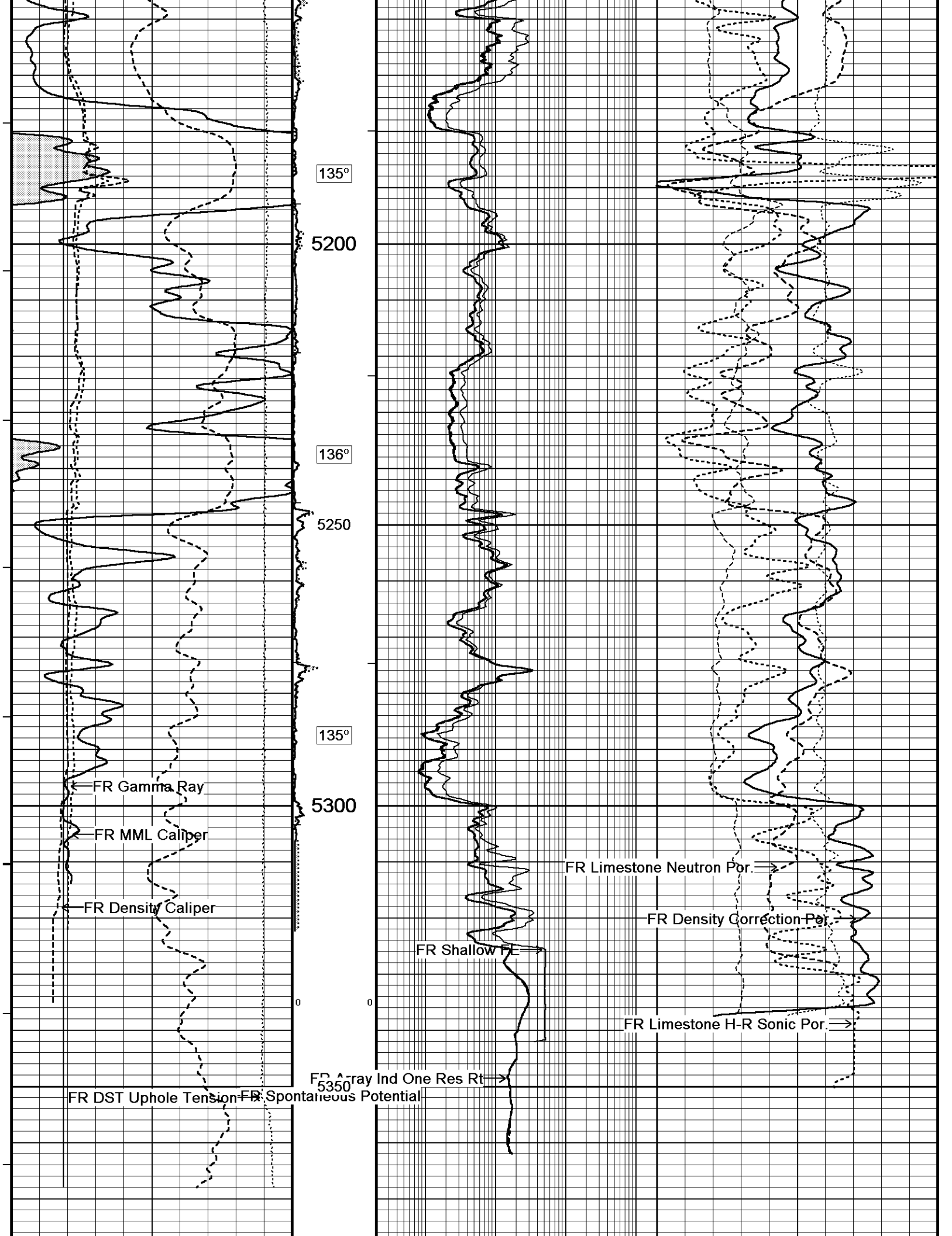
5 INCH MAIN LOG

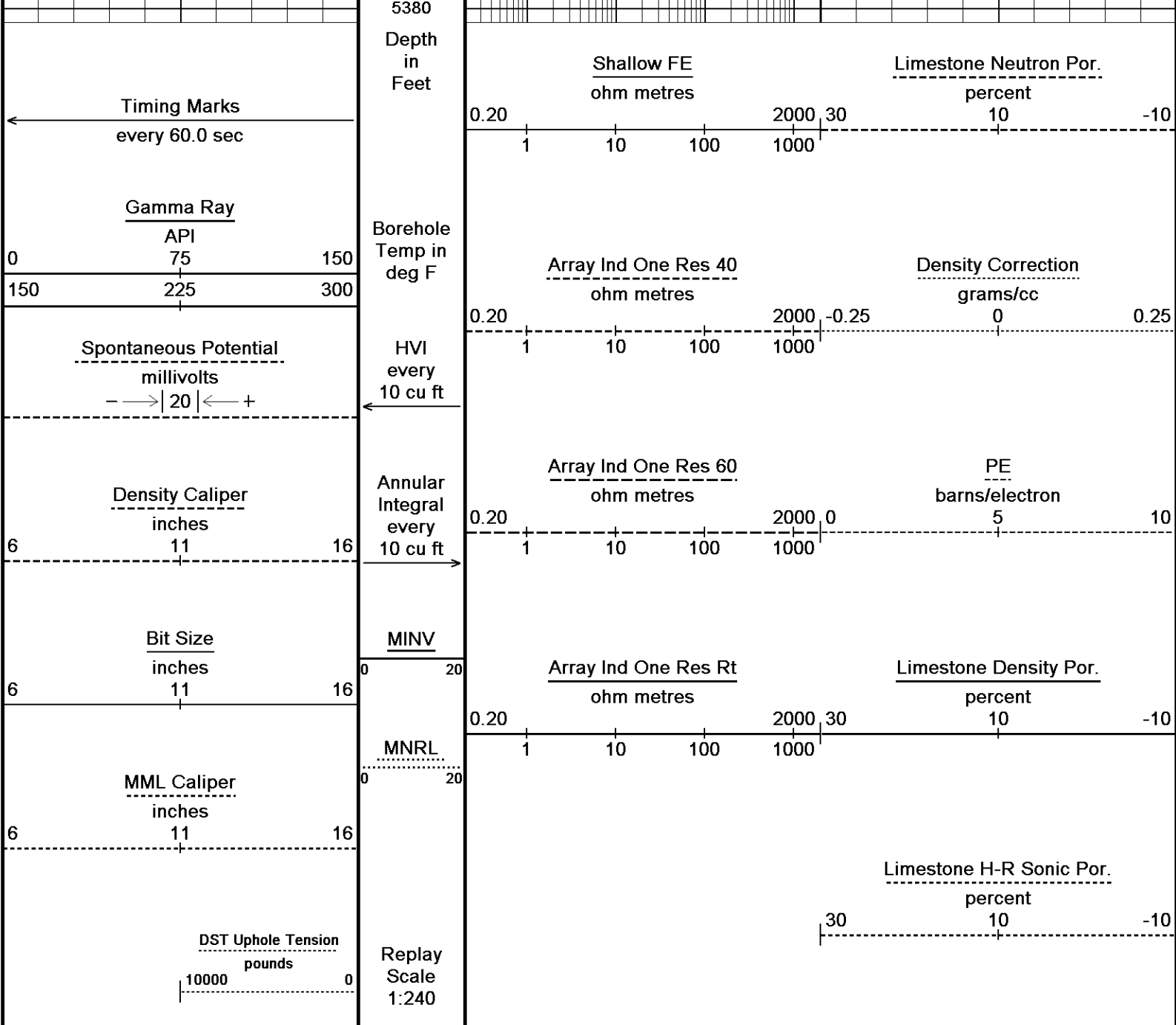
REPEAT SECTION

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 System Versions: Logged with 11.02.2782 Plotted with 12.01.3513









Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 29-SEP-2011 08:14
 Filename: C:\Users\garcianr\AppData\Local\Temp\Weatherford PreView\0\SEIFERT 1-27_002.dta Recorded on 28-SEP-2011 18:07
 System Versions: Logged with 11.02.2782 Plotted with 12.01.3513

↑ REPEAT SECTION ↑

BEFORE SURVEY CALIBRATION
 C:\Users\garcianr\AppData\Local\Temp\Weatherford PreView\0\SEIFERT 1-27.dta

General Constants All 000 Last Edited on 28-SEP-2011 18:30

General Parameters
 Mud Resistivity 1.500 ohm-metres
 Mud Resistivity Temperature 82.000 degrees F
 Water Level 0.000 feet
 Density/Neutron Processing Wet Hole

Hole/Annular Volume and Differential Caliper Parameters
 HVOL Method Single Caliper
 HVOL Caliper 1 Density Caliper
 HVOL Caliper 2 N/A
 Annular Volume Diameter 5.500 inches

Caliper for Differential Caliper		None	
Rwa Parameters			
Porosity used	Limestone Density Por.		
Resistivity used	Array Ind. One Res Rt		
RWA Constant A	0.610		
RWA Constant M	2.150		
Down-hole Tension Calibration SMS 0		Field Calibration on 10-SEP-2011 14:39	
Reading No	Measured	Calibrated (lbs)	
1	14299.72	0.00	
2	15662.60	358.00	
Gamma Calibration MCG-D.A 328		Field Calibration on 28-SEP-2011 17:04	
	Measured	Calibrated (API)	
Background	42	29	
Calibrator (Gross)	1361	926	
Calibrator (Net)	1319	897	
Gamma Constants MCG-D.A 328		Last Edited on 28-SEP-2011 17:04	
Gamma Calibrator Number	13226		
Mud Density	1.08	gm/cc	
Caliper Source for Processing	Density Caliper		
Tool Position	Eccentred		
Concentration of KCl	0.00	kppm	
SP Calibration MCG-D.A 328		Field Calibration on 28-SEP-2011 17:04	
	Measured	Calibrated (mV)	
Reference 1	-100.0	-100.0	
Reference 2	100.0	100.0	
High Resolution Temperature Calibration MCG-D.A 328		Field Calibration on 28-SEP-2011 17:04	
	Measured	Calibrated(Deg F)	
Lower	50.00	50.00	
Upper	150.00	150.00	
High Resolution Temperature Constants MCG-D.A 328		Last Edited on	
Pre-filter Length	11		
Micro Normal and Micro Inverse Calibration MML-A 13		Base Calibration on 22-SEP-2011 17:10 Field Check on 28-SEP-2011 17:04	
Base Calibration			
		Measured	Calibrated (ohm-m)
Channel	Resistor 1	Resistor 2	Resistor 1 Resistor 2
Micro Normal	12.3	58.0	2.6 12.8
Micro Inverse	16.4	77.4	1.7 8.4
Channel	Base Check (ohm-m)		Field Check (ohm-m)
Micro Normal	33.6		33.6
Micro Inverse	16.6		16.6
Micro Normal and Micro Inverse Constants MML-A 13		Last Edited on 28-SEP-2011 17:04	
Pad Type	8-12 in Soft Rubber Inflatable 006-9011-159		
Micro Normal K Factor	0.5110		
Micro Inverse K Factor	0.3380		
Standoff Offset	N/A		inches
Caliper Calibration MML-A 13		Base Calibration on 22-SEP-2011 16:35 Field Calibration on 28-SEP-2011 18:18	
Base Calibration			
Reading No	Measured	Calibrator Size (in)	
1	13606	5.98	
2	16663	7.98	
3	20008	9.95	
4	23797	12.01	
5	0	0.00	
6	N/A	N/A	

Field Calibration

Measured Caliper (in)
8.30Actual Caliper (in)
8.10

Neutron Calibration MDN-A.A 10

Base Calibration on 12-MAY-2011 19:29
Field Check on 28-SEP-2011 17:04

Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	3130	98	3714	110
Ratio	31.818		33.764	

Field Calibrator at Base

	Calibrated (cps)	
	1248	1792
Ratio	0.696	

Field Check

	Calibrated (cps)	
	1248	1792
Ratio	0.696	

Neutron Constants MDN-A.A 10

Last Edited on 28-SEP-2011 17:04

Neutron Source Id	P14033B	
Neutron Jig Number	13226	
Epithermal Neutron	No	
Caliper Source for Processing	Density Caliper	
Stand-off	0.00	inches
Mud Density	1.00	gm/cc
Limestone Sigma	7.10	cu
Sandstone Sigma	4.26	cu
Dolomite Sigma	4.70	cu
Formation Pressure Source	Constant Value	
Formation Pressure	0.00	kpsi
Temperature Source	None	
Temperature	N/A	degrees F
Mud Salinity	0.00	kppm
Formation Fluid Salinity Source	Constant Value	
Formation Fluid Salinity	0.00	kppm
Barite Mud Correction	Not Applied	

FE Calibration MFE-A.A 65

Base Calibration on 10-AUG-2011 15:44
Field Check on 28-SEP-2011 17:05

Base Calibration

	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	961.4	126.8
Base Check		280.8
Field Check		280.8

FE Constants MFE-A.A 65

Last Edited on 28-SEP-2011 17:05

Running Mode	No Sleeve	
MFE K Factor	0.1268	
Caliper Source for FE correction	Density Caliper	
Caliper Value for FE correction	N/A	inches
Rm Source for FE correction	Temperature Corr	
Temp. for Rm Corr.	MCG External Temperature	
Stand-off	0.5	inches

Sonic Constants MSS-A.A 101

Last Edited on 28-SEP-2011 17:05

Maximum Boundary Contrast	100.00	micro-sec/ft
Fluid Transit Time	189.00	micro-sec/ft
Limestone Transit Time	47.50	micro-sec/ft
Sandstone Transit Time	55.50	micro-sec/ft
Dolomite Transit Time	43.50	micro-sec/ft
Sonic used for Porosities	3-5' Compensated Sonic	
Correction for Sonde Skew	Applied	
Cycle Stretch Algorithm	Applied	

MN3F1 N/A micro-sec
 MX3FT N/A micro-sec
 Hunt-Raymer Constant 83.13 micro-sec/ft

Sonde Mode
 Hole Type Compensated Open Hole

Sonde Parameters

	Measured	Calibrated
Offset	N/A	0.0000
Free Pipe	N/A	N/A
Peak Amplitude Source		N/A

Waveform	Start Time (micro-sec)	Width (micro-sec)	Pre Gain	Start Gain	Discriminator (mV)
3'	N/A	N/A	N/A	N/A	N/A
4'	N/A	N/A	N/A	N/A	N/A
5'	N/A	N/A	N/A	N/A	N/A
6'	N/A	N/A	N/A	N/A	N/A

Processed Fixed Gate Parameters

Waveform Used For Processing	N/A		
Start Time (micro-sec)	End Time (micro-sec)	Discriminator (mV)	Depth (ft)
N/A	N/A	N/A	0.00
N/A	N/A	N/A	0.00
N/A	N/A	N/A	0.00
N/A	N/A	N/A	0.00

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-B.J 393

Base Calibration on 22-SEP-2010 10:00
 Field Check on 28-SEP-2011 17:05

Base Calibration

Test Loop Calibration	Measured		Calibrated (mmho/m)	
Channel	Low	High	Low	High
1	17.4	474.6	9.3	966.2
2	6.5	382.5	7.6	821.4
3	3.5	251.8	5.2	566.0
4	2.1	131.0	2.6	279.2

Array Temperature 74.1 Deg F

Channel	Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High
1	0.0	0.0	16.2	3824.1
2	0.0	0.0	31.7	3523.5
3	0.0	0.0	31.1	3140.9
4	0.0	0.0	20.8	2111.9
Deep	0.0	0.0	19.9	2110.3
Medium	0.0	0.0	44.9	4139.0
Shallow	0.0	0.0	46.1	5104.5

Array Temperature 0.0 95.0 Deg F

Induction Model	RtAP-WBM		
Caliper for Borehole Corr.	Density Caliper		
Hole Size for Borehole Correction	N/A	inches	
Tool Centred	No		
Stand-off Type	Fins		
Stand-off	0.50	inches	
Number of Fins on Stand-off	6.0000		
Stand-off Fin Angle	60.00	degrees	
Stand-off Fin Width	0.5000	inches	
Borehole Corr. Rm Source	Temperature Corr		
Temp. for Rm Corr.	MCG External Temperature		
Squasher Start	0.0020	mhos/metre	
Squasher Offset	N/A	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	
Source for Rt	0.00		
Source for Rxo	0.00		

High Resolution Temperature Calibration MAI-B.J 393

Field Calibration on 28-SEP-2011 17:06

	Measured	Calibrated(Deg F)
Lower	50.00	50.00
Upper	100.00	100.00

High Resolution Temperature Constants MAI-B.J 393

Last Edited on

Pre-filter Length	11
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Caliper Calibration MPD-A 3

Base Calibration on 10-AUG-2011 16:37
Field Calibration on 28-SEP-2011 18:19

Base Calibration		
Reading No	Measured	Calibrator Size (in)
1	20208	3.98
2	28784	5.95
3	37424	7.97
4	45392	9.84
5	54503	11.91
6	N/A	N/A

Field Calibration		
	Measured Caliper (in)	Actual Caliper (in)
	8.43	8.10

Photo Density Calibration MPD-A 3

Base Calibration on 21-SEP-2011 15:08
Field Check on 28-SEP-2011 17:05

Density Calibration				
Base Calibration				
		Measured	Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	47357	25239	60364	31945

Reference 2 20102 2812 25079 2547

Field Check at Base
 1315.7 1670.4

Field Check
 1315.7 1670.4

PE Calibration

Base Calibration	WS	Measured WH	Ratio	Calibrated Ratio
Background	242	1164		
Reference 1	19956	47156	0.429	0.399
Reference 2	5535	19946	0.282	0.273

Field Check at Base
 241.8 1163.6

Field Check
 241.8 1163.6

Density Constants MPD-A 3

Last Edited on 28-SEP-2011 17:05

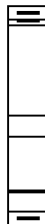
Density Source Id	260	
Nylon Calibrator Number	633	
Aluminium Calibrator Number	633	
Density Shoe Profile	8 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.08	gm/cc
Mud Density Z/A Multiplier	1.11	
Mud Filtrate Density	1.00	gm/cc
Dry Hole Mud Filtrate Density	1.00	gm/cc
DNCT	0.00	gm/cc
CRCT	0.00	gm/cc
Density Z/A Correction	Hybrid	
Matrix Density (gm/cc)	Depth (ft)	
2.71	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	0.00	

DOWNHOLE EQUIPMENT

C:\Users\garcianr\AppData\Local\Temp\Weatherford PreView\0\SEIFERT 1-27.dta

SHA-F Compact Swivel Head Adaptor
 SHA-F 45 LG: 2.74 ft WT: 26.5 lb OD: 2.24 in

Compact Comms Gamma
 MCG-D.A 328 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

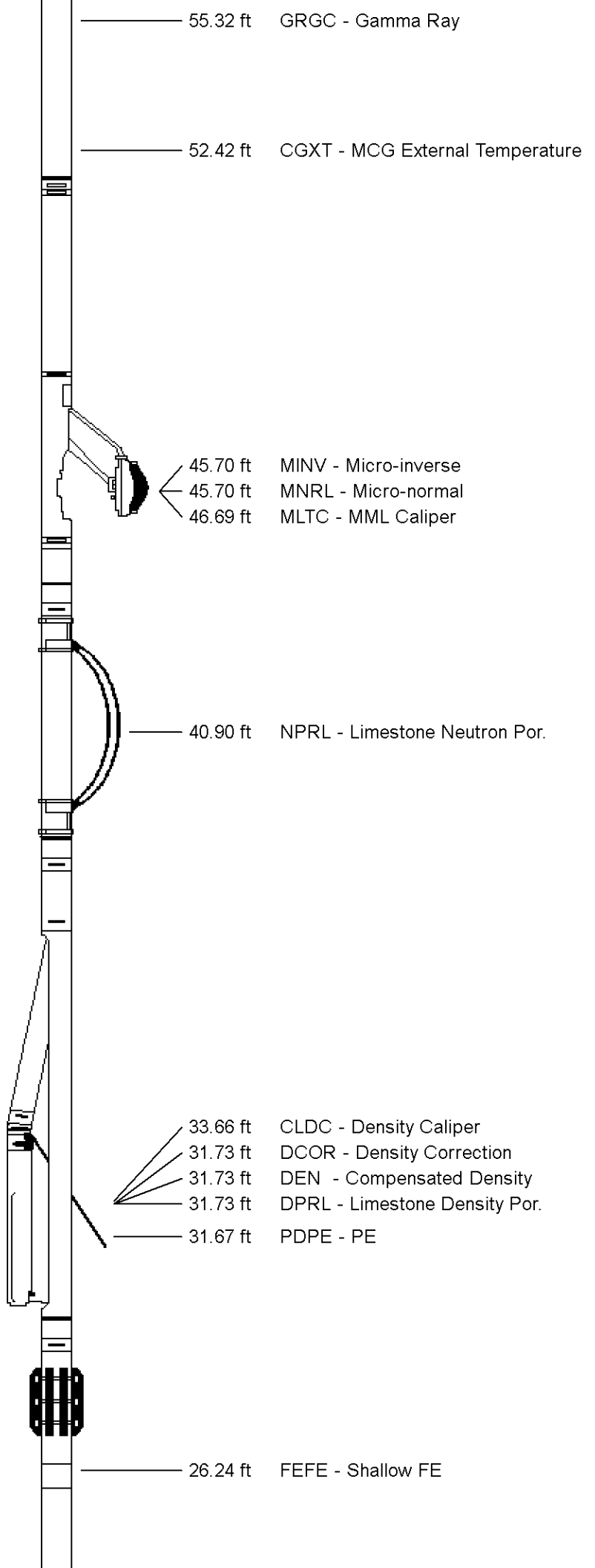


Compact Micro-log
MML-A 13 LG: 7.97 ft WT: 81.6 lb OD: 2.24 in

Compact Neutron
MDN-A.A 10 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper
MPD-A 3 LG: 9.53 ft WT: 90.4 lb OD: 2.45 in

Compact Focussed Electric
MFE-A.A 65 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in



Compact Sonic
 MSS-A.A 101 LG: 12.52 ft WT: 72.8 lb OD: 2.24 in



12.96 ft DT35 - 3-5' Compensated Sonic
 12.96 ft SHRL - Limestone H-R Sonic Por.

Compact Induction
 MAI-B.J 393 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

3.34 ft R600 - Array Ind. One Res 60
 3.34 ft RTAO - Array Ind. One Res Rt
 3.34 ft R400 - Array Ind. One Res 40

0.23 ft SPCG - Spontaneous Potential

Tool Zero (0.13ft from bottom)

-0.13 ft SMTU - DST Uphole Tension

Total Length: 63.35 ft Weight: 482.8 lb

All measurements relative to tool zero.

COMPANY	SHORELINE ENERGY PARTNERS, LLC.
WELL	SEIFERT 1-27
FIELD	WILDCAT
PROVINCE/COUNTY	HARPER
COUNTRY/STATE	U.S.A. / KANSAS

Elevation Kelly Bushing	1216.00	feet	First Reading	5349.00	feet
Elevation Drill Floor	1214.00	feet	Depth Driller	5355.00	feet

Elevation Ground Level

1206.00

feet

Depth Logger

5352.00

feet



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COMPACT PHOTO DENSITY
COMPENSATED NEUTRON
MICROLOG SONIC LOG

