



Weatherford

**ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG**

COMPANY	MCCOY PETROLEUM CORPORATION		
WELL	UMCC 'A' #2-17		
FIELD	WILDCAT		
PROVINCE/COUNTY	MEADE		
COUNTRY/STATE	U.S.A. / KANSAS		
LOCATION	660' FSL & 1980' FWL		
SEC 17	TWP 30S	RGE 30W	Other Services
Latitude			MPD/MDN
Longitude			MML
API Number	15-119-21379		
Permanent Datum GL, Elevation	2819 feet		
Log Measured From	KB		
Drilling Measured From	KB @ 11 FEET		
Date	31-OCT-2014		
Run Number	ONE		
Service Order	4558-101987382		
Depth Driller	5700.00	feet	Elevations: KB 2830.00
Depth Logger	5700.00	feet	DF 2828.00
First Reading	5697.00	feet	GL 2819.00
Last Reading	1829.00	feet	
Casing Driller	1828.00	feet	
Casing Logger	1829.00	feet	
Bit Size	7.875	inches	
Hole Fluid Type	CHEMICAL		
Density / Viscosity	9.20 lb/USg	48.00 CP	
PH / Fluid Loss	10.00	8.80 ml/30Min	
Sample Source	FLOWLINE		
Rm @ Measured Temp	0.98 @ 86.0	ohm-m	
Rmf @ Measured Temp	0.78 @ 86.0	ohm-m	
Rmc @ Measured Temp	1.18 @ 86.0	ohm-m	
Source Rmf / Rmc	CALC	CALC	
Rm @ BHT	0.69 @ 122.0	ohm-m	
Time Since Circulation	5 HOURS		
Max Recorded Temp	122.00	deg F	
Equipment / Base	13244	LIB	
Recorded By	ADAM SILL		
Witnessed By	DAVE WILLIAMS		
JOB #	LB14-341		

BOREHOLE RECORD

Last Edited: 31-OCT-2014 21:49

Bit Size inches	Depth From feet	Depth To feet
7.875	1828.00	5700.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	8.625	0.00	1828.00	24.00

REMARKS

- SOFTWARE ISSUE: WLS 14.03.4558.
- RUN ONE: MCG, MML, MDN, MPD, MFE, MAI RUN IN COMBINATION.
 - HARDWARE: DUAL BOWSPRING USED ON MDN.
 - 0.5 INCH STANDOFF USED ON MFE.
 - 0.5 INCH STANDOFF USED ON MAI.
- 2.71 G/CC LIMESTONE DENSITY MATRIX USED TO CALCULATE POROSITY.
- BOREHOLE RUGOSITY, TIGHT PULLS, AND WASHOUTS WILL AFFECT DATA QUALITY.
- ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.
- TOTAL HOLE VOLUME FROM TD TO SURFACE CASING: 1332 CU.FT.
- ANNULAR HOLE VOLUME WITH 5.5 INCH PRODUCTION CASING FROM TD TO 4000 FEET: 277 CU.FT.
- RIG: STERLING #2

RIS: OPERING #2.

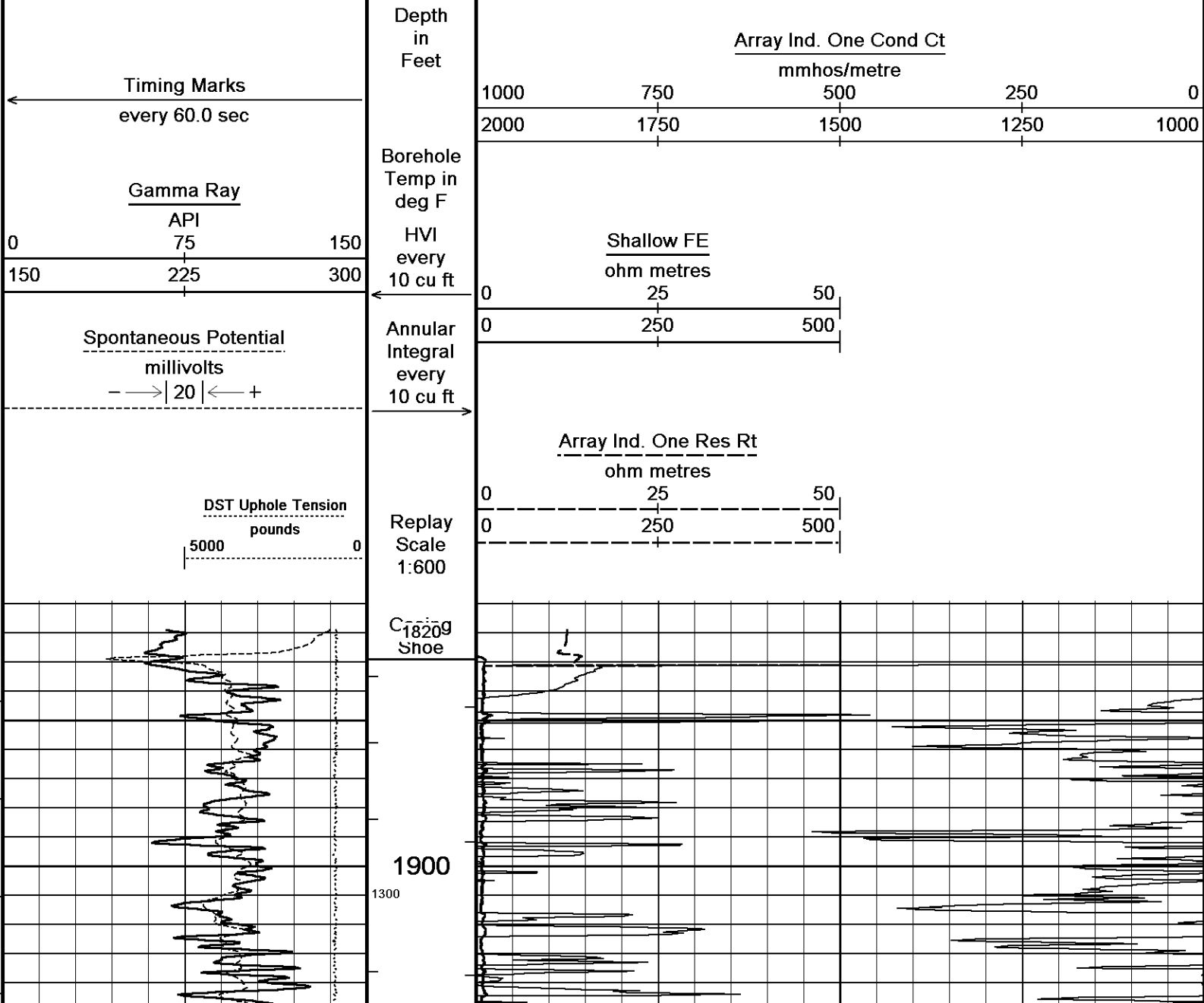
- ENGINEER: A. SILL.

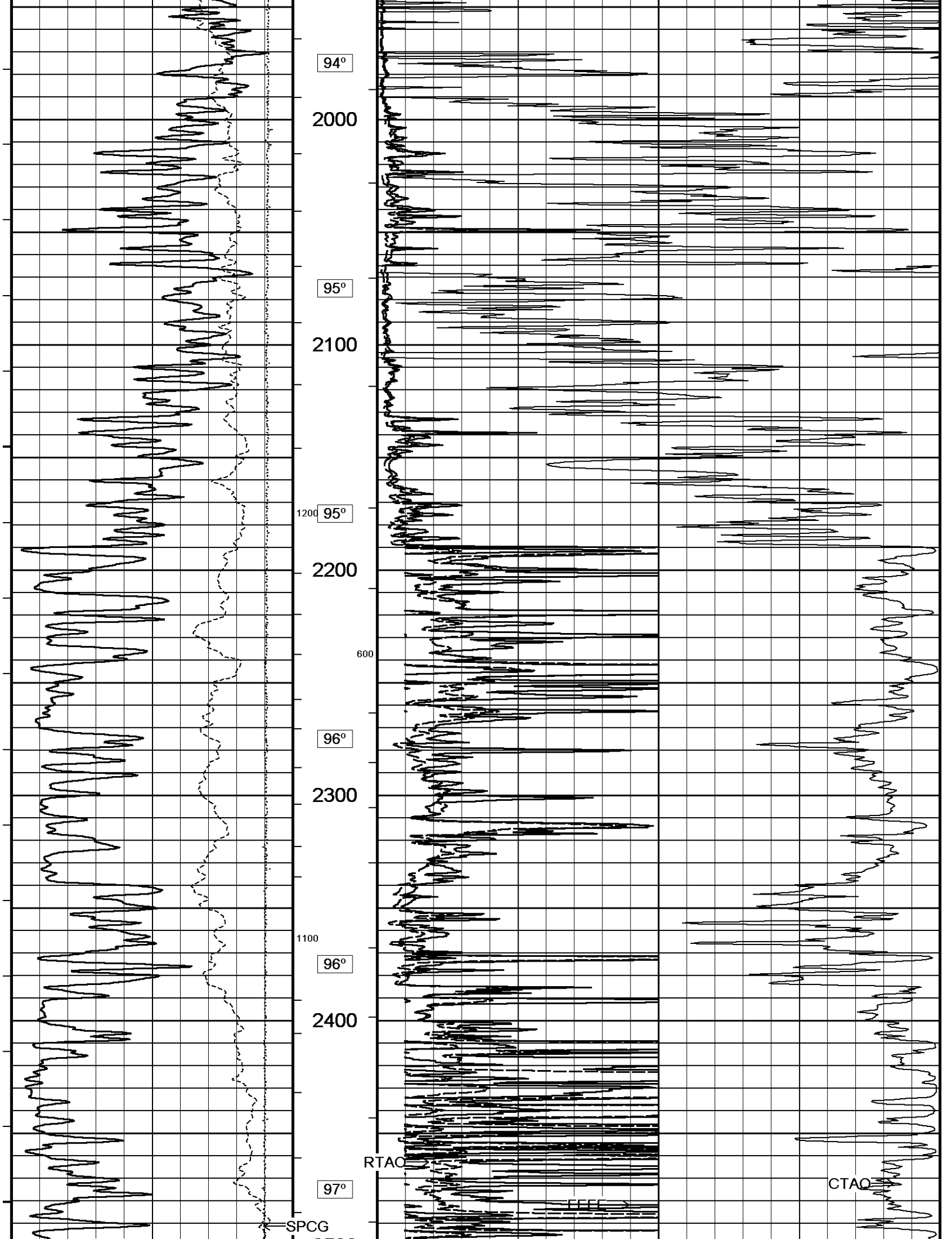
- OPERATOR: J. DUNLAP, N. ADAME.

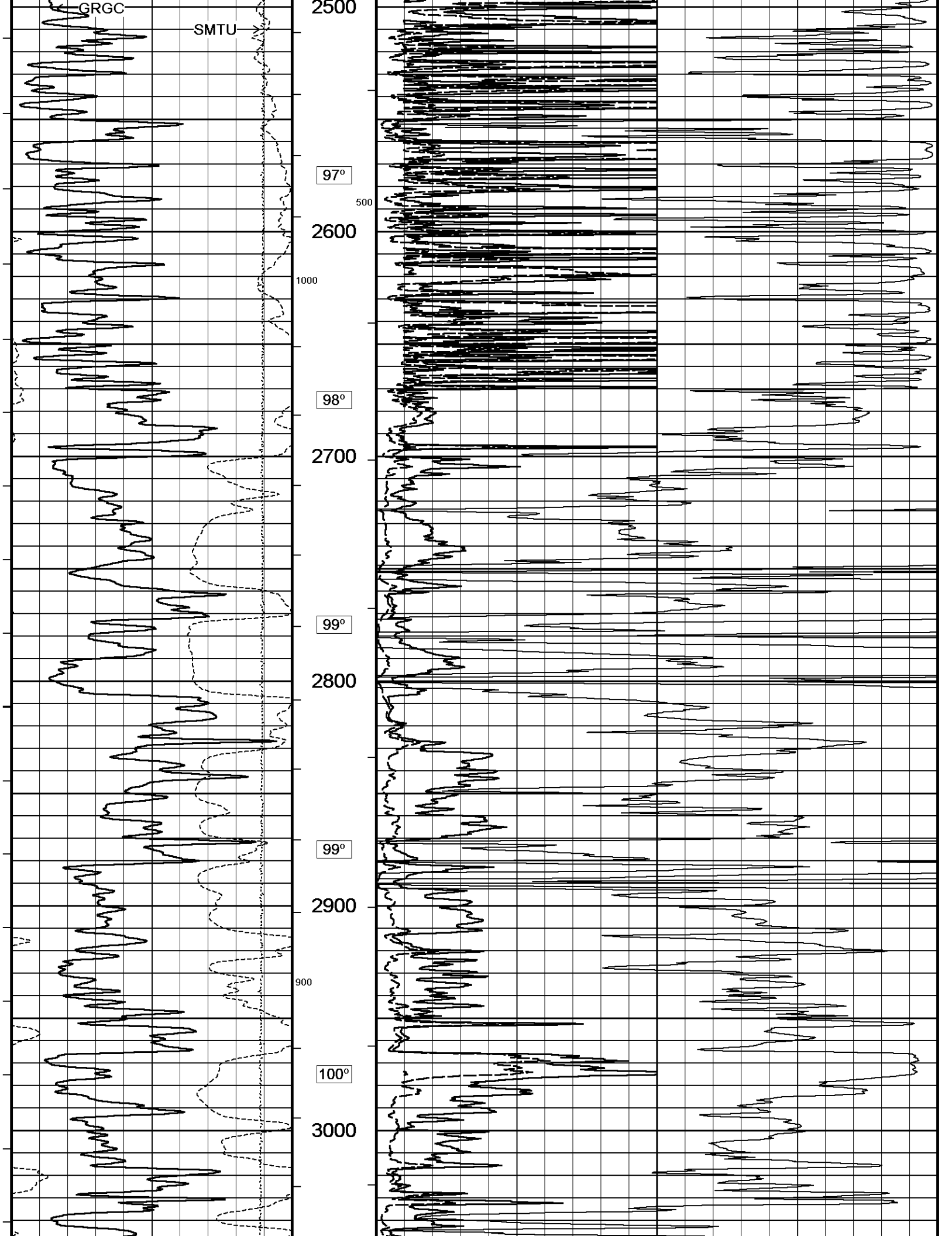
In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will give the Company the benefit of the Contractor's best judgment based on its experience and will perform all such Work in a good and workmanlike manner. Any interpretation of test or other data, and any recommendation or reservoir description based upon such interpretations, are opinions based upon inferences from measurements and empirical relationships and assumptions, which inferences and assumptions are not infallible, and with respect to which professional engineers and analysts may differ. ACCORDINGLY ANY INTERPRETATION OR RECOMMENDATION RESULTING FROM THE SERVICES WILL BE AT THE SOLE RISK OF THE COMPANY, AND THE CONTRACTOR CANNOT AND DOES NOT WARRANT THE ACCURACY, CORRECTNESS OR COMPLETENESS OF ANY SUCH INTERPRETATION OR RECOMMENDATION, WHICH INTERPRETATIONS AND RECOMMENDATIONS SHOULD NOT, THEREFORE, UNDER ANY CIRCUMSTANCES BE RELIED UPON AS THE SOLE OR MAIN BASIS FOR ANY DRILLING, COMPLETION, WELL TREATMENT, PRODUCTION OR FINANCIAL DECISION, OR ANY PROCEDURE INVOLVING ANY RISK TO THE SAFETY OF ANY DRILLING ACTIVITY, DRILLING RIG OR ITS CREW OR ANY OTHER INDIVIDUAL. THE COMPANY HAS FULL RESPONSIBILITY FOR ALL DECISIONS CONCERNING THE SERVICES.

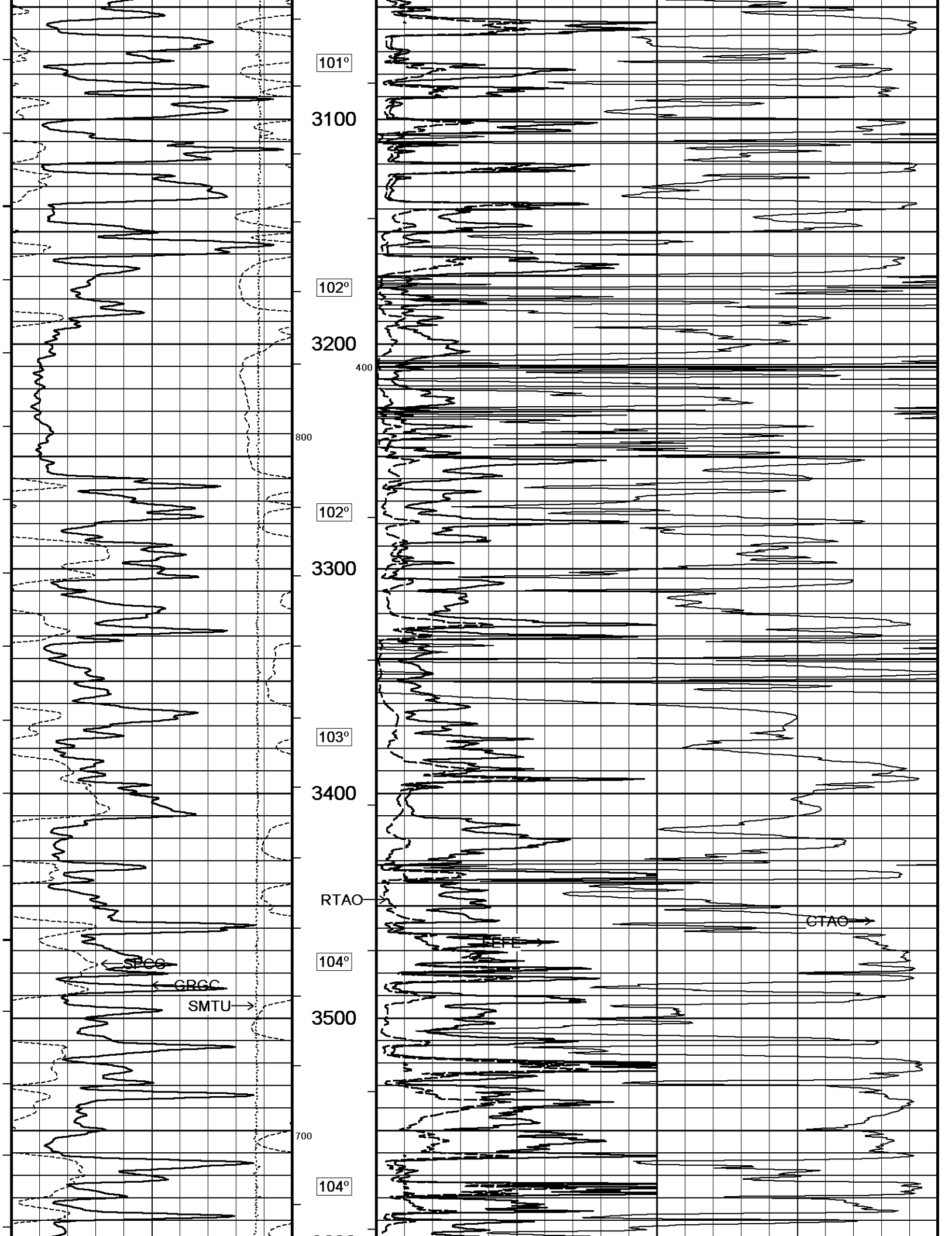
2 INCH MAIN

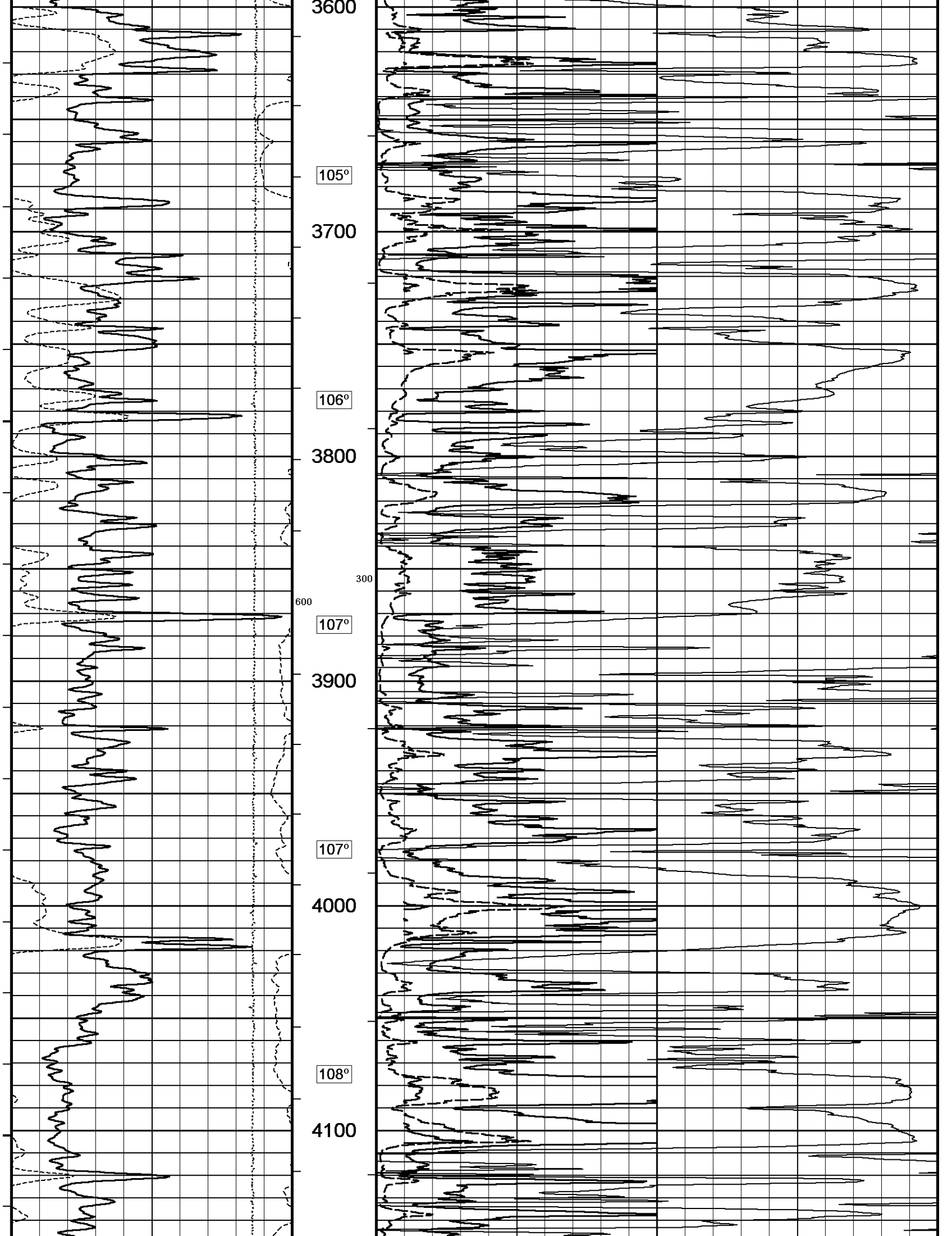
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 System Versions: Logged with 14.03.4558 Processed with 14.03.4558 Plotted with 14.03.4558

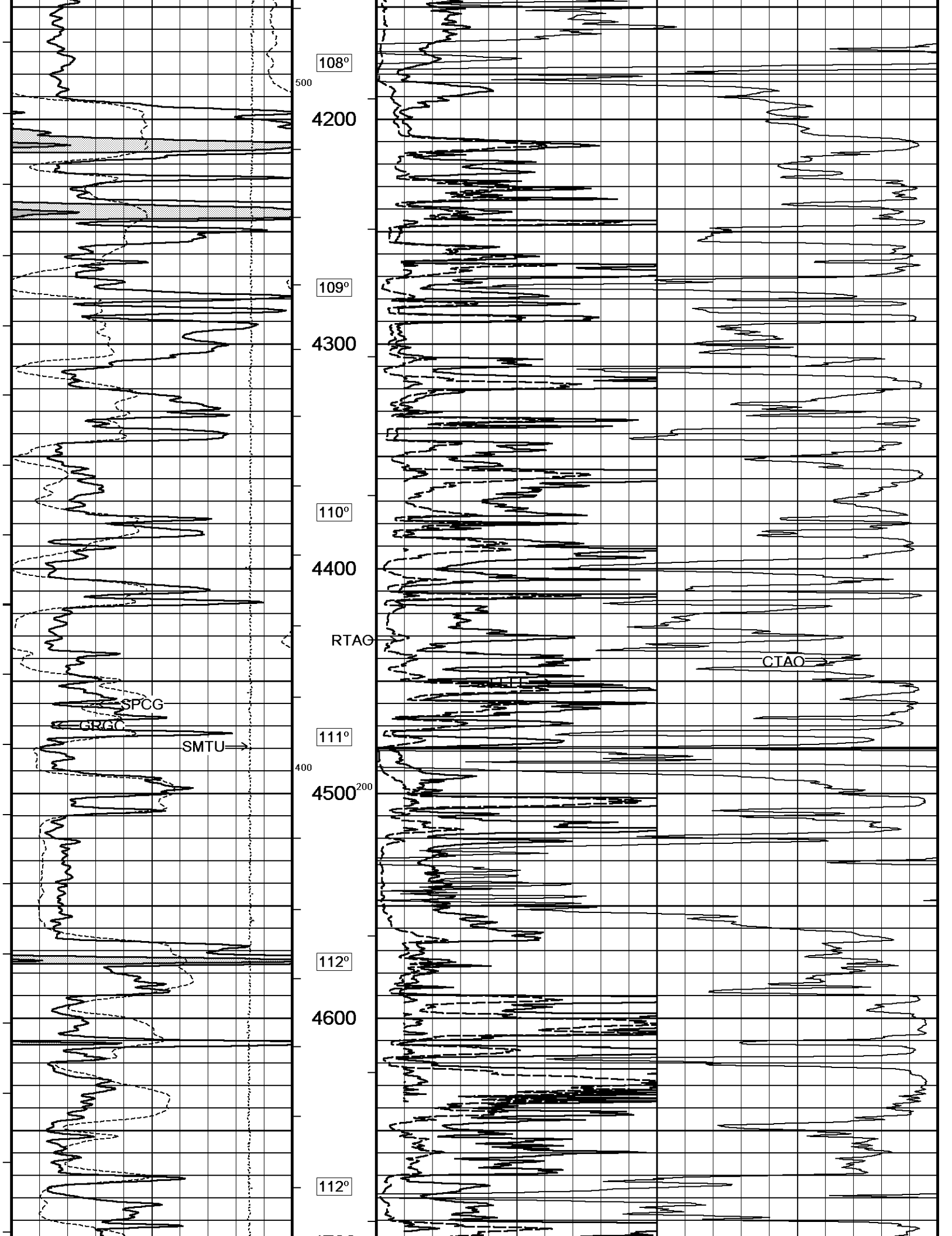


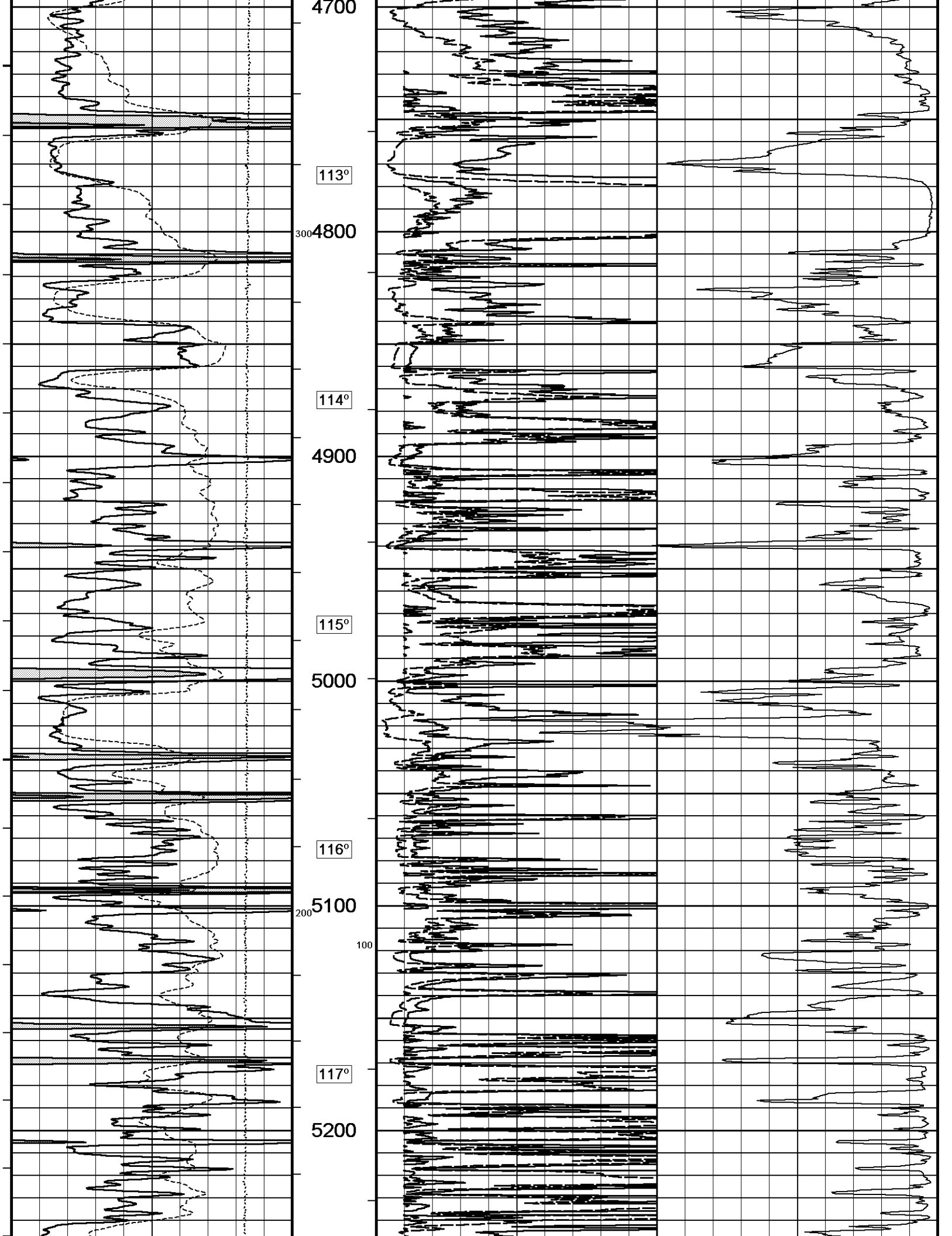


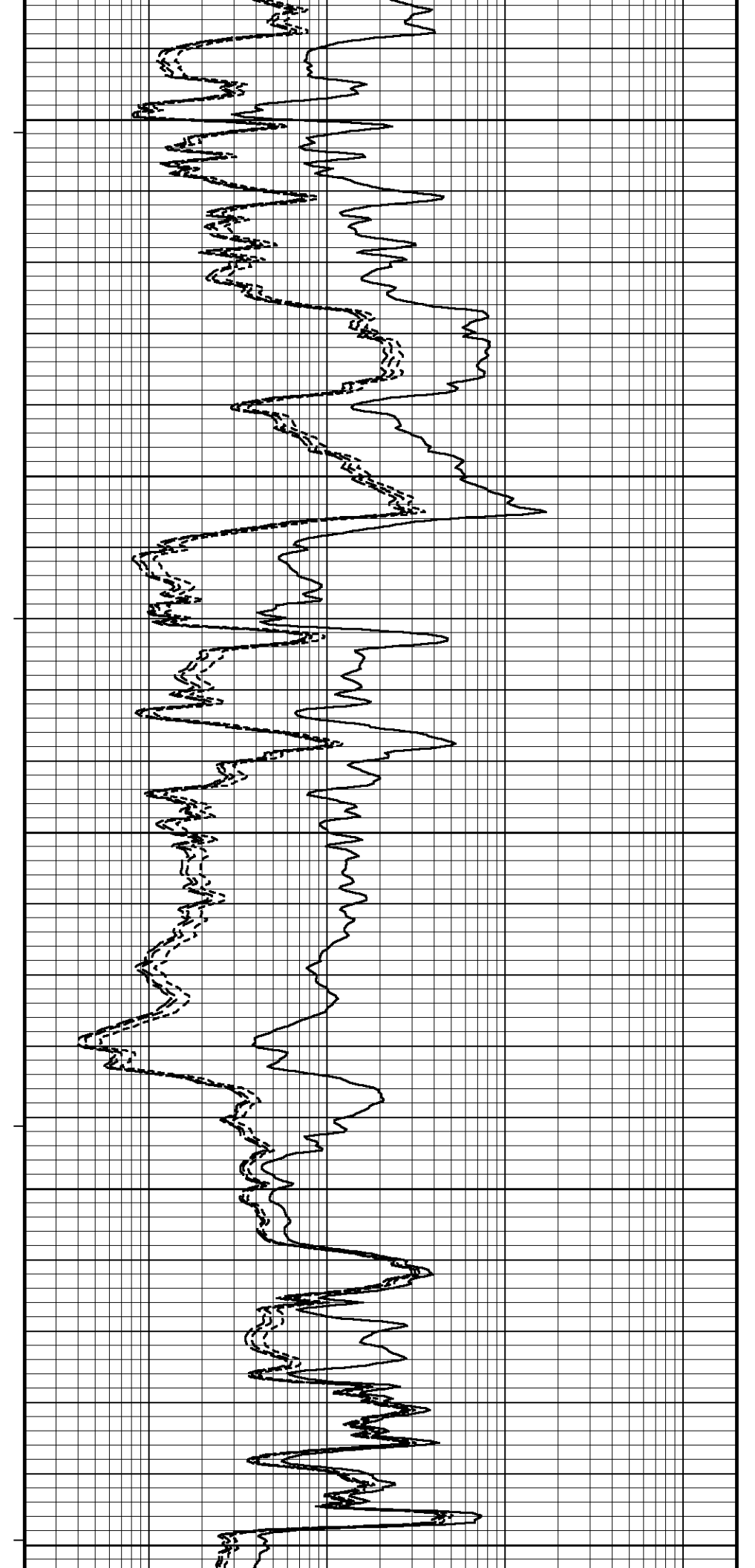
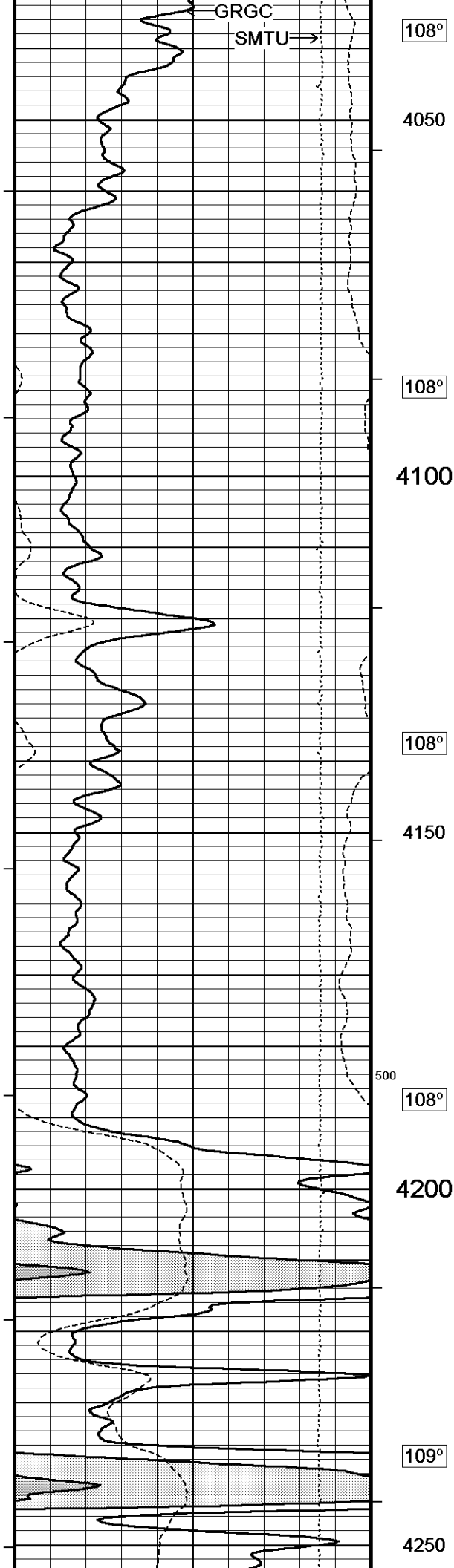


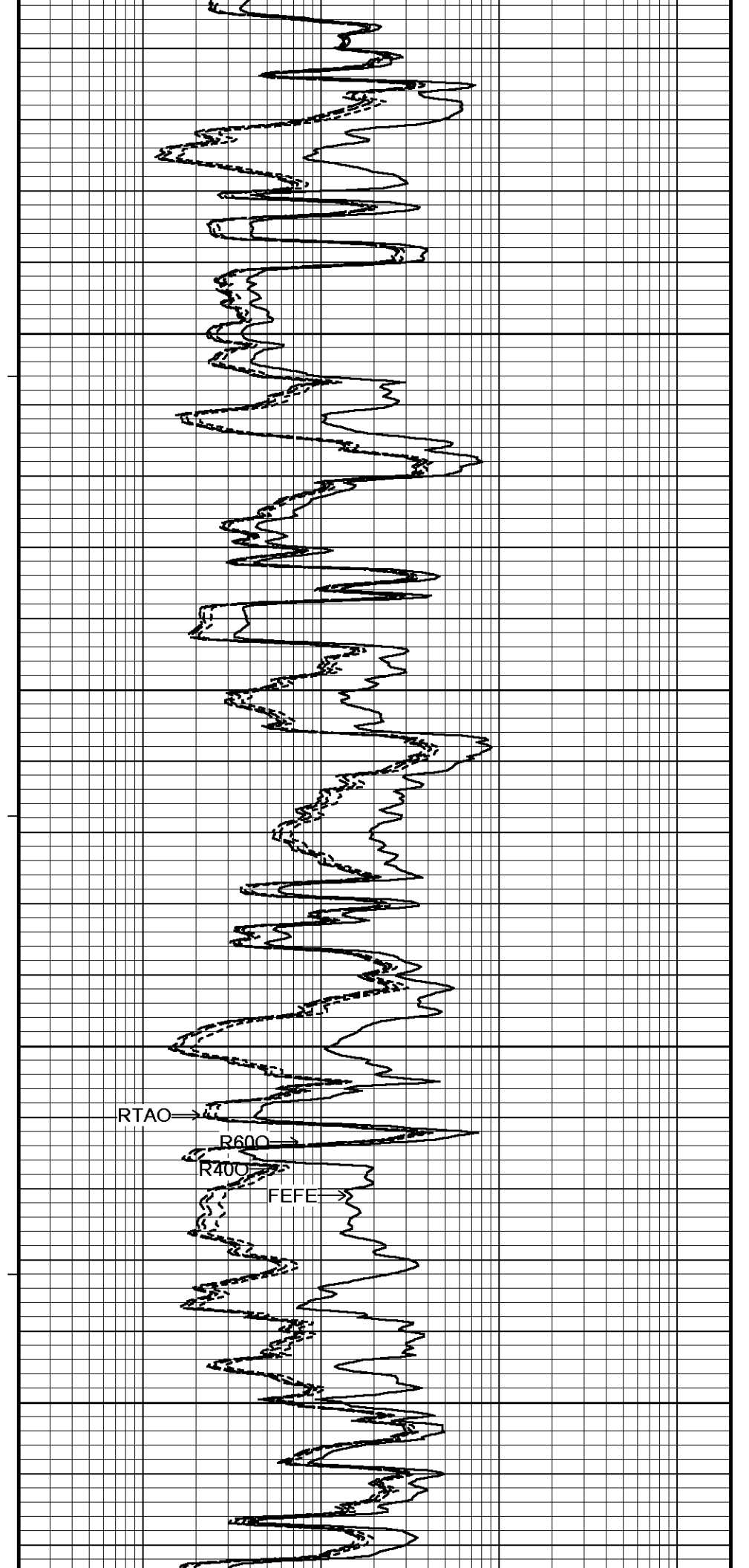
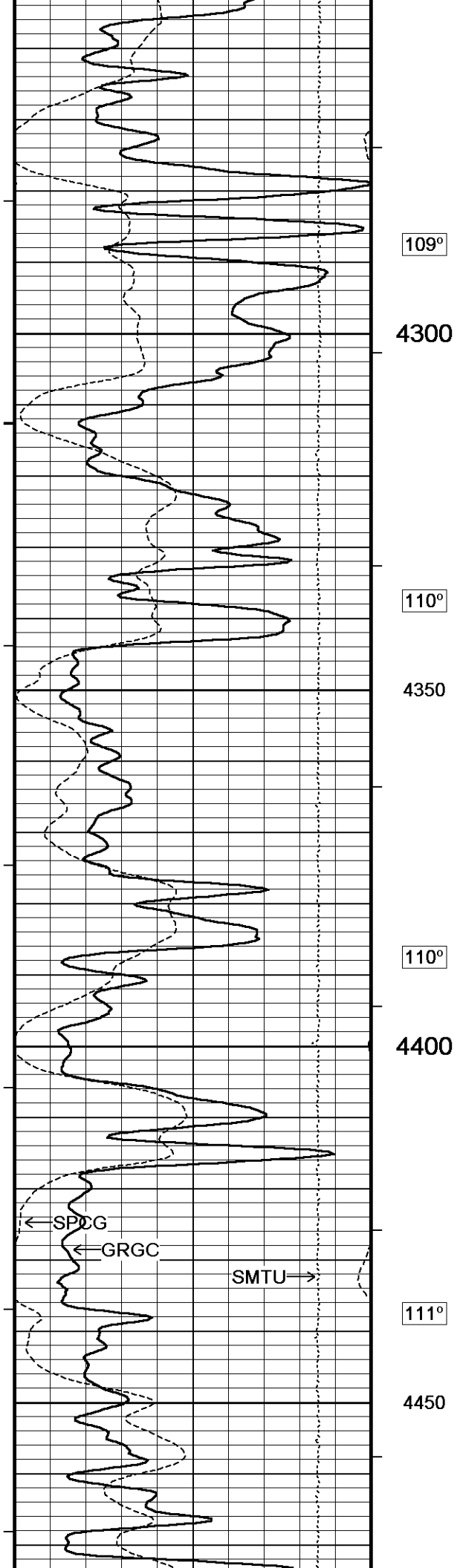


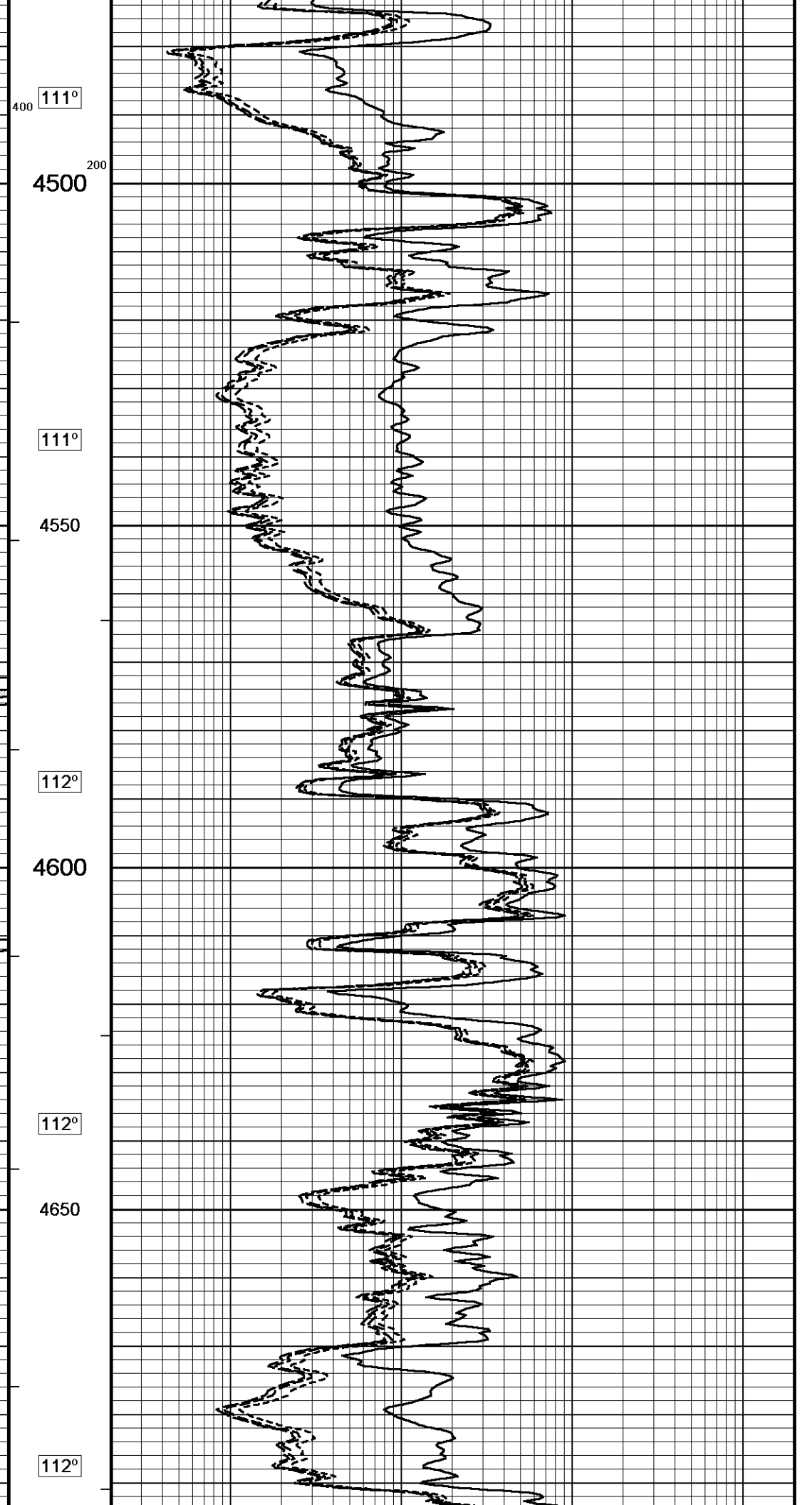
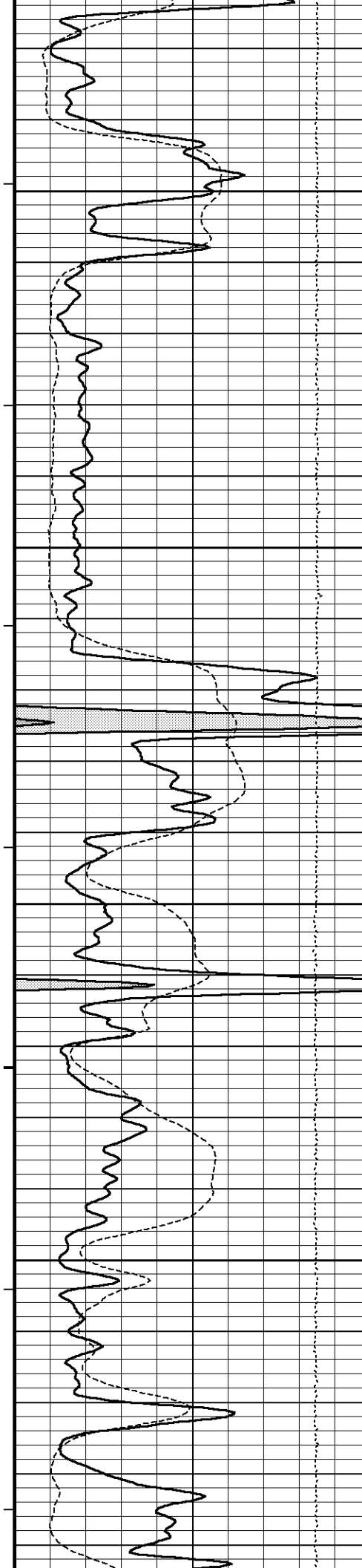


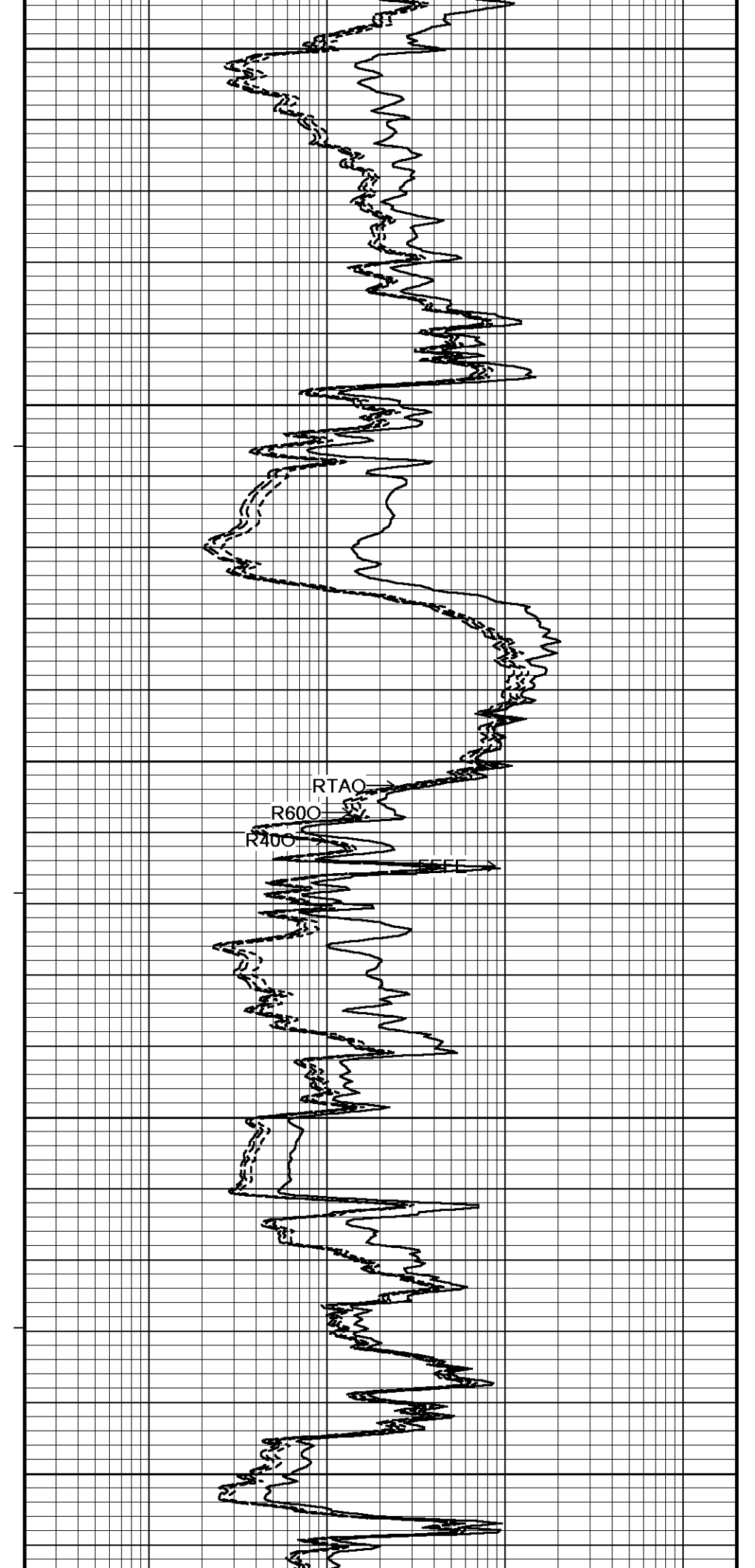
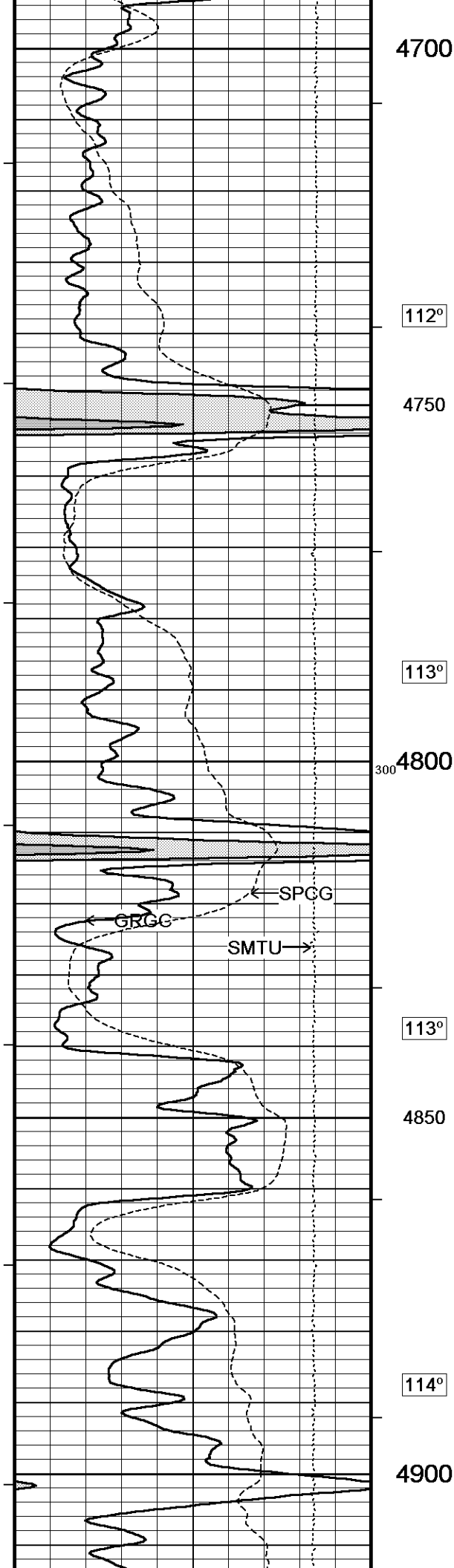


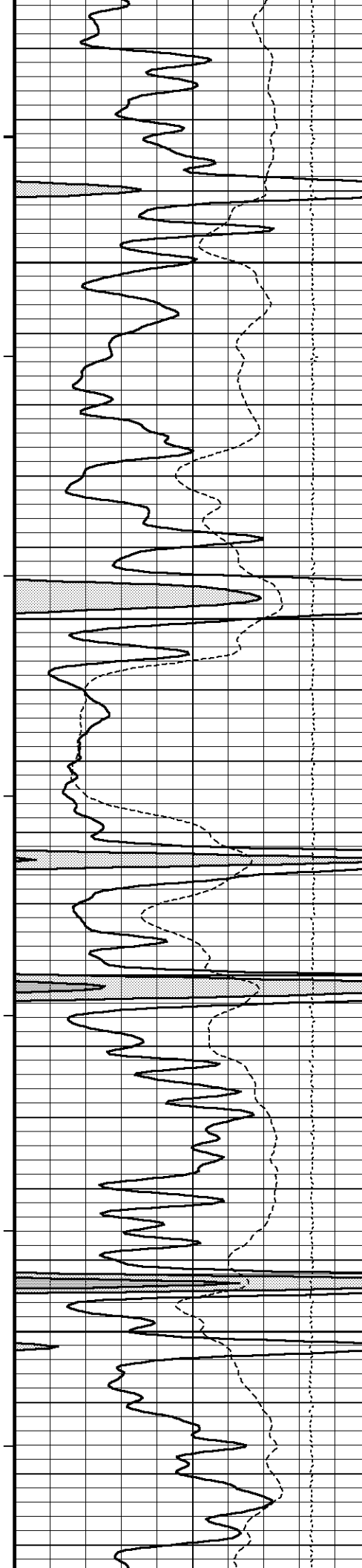




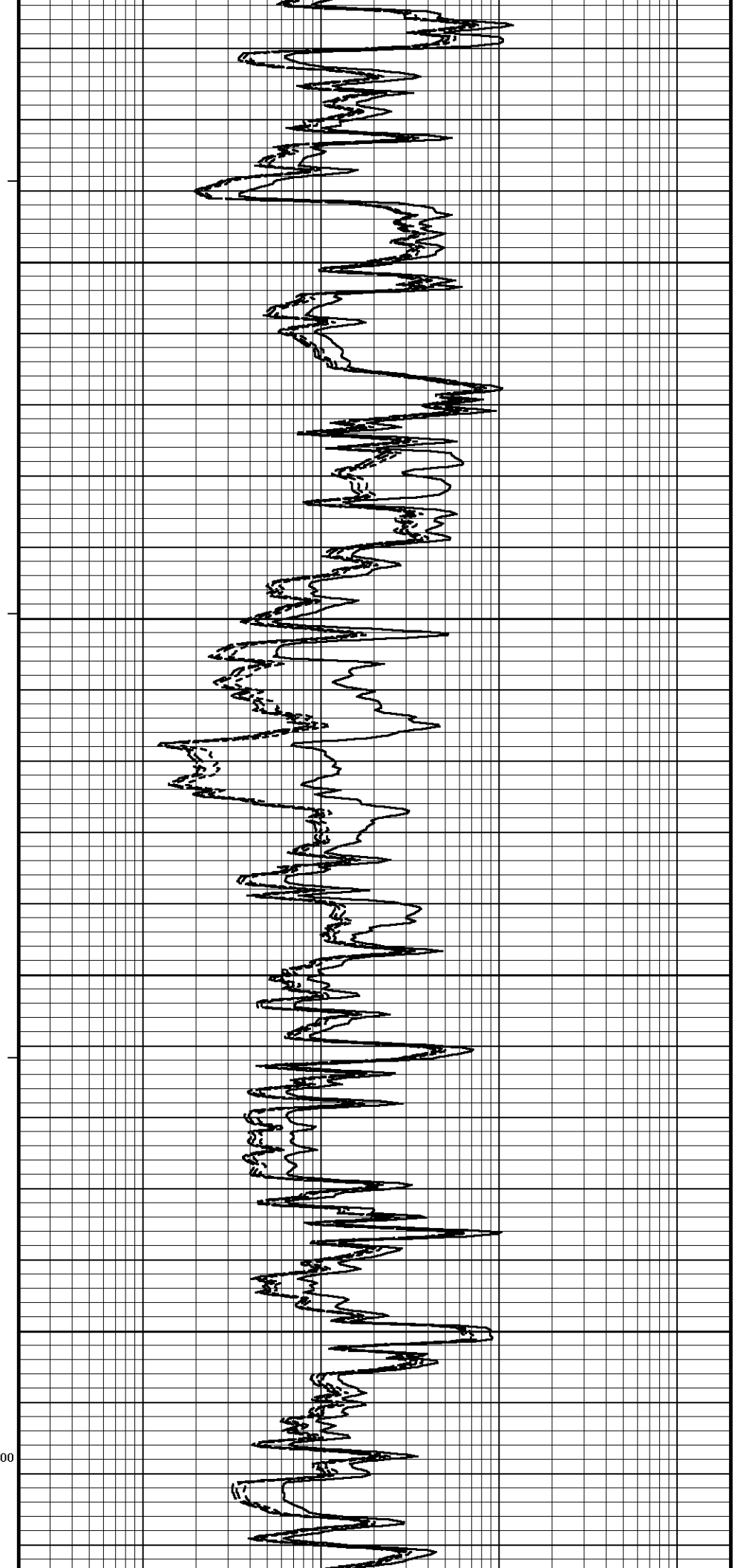


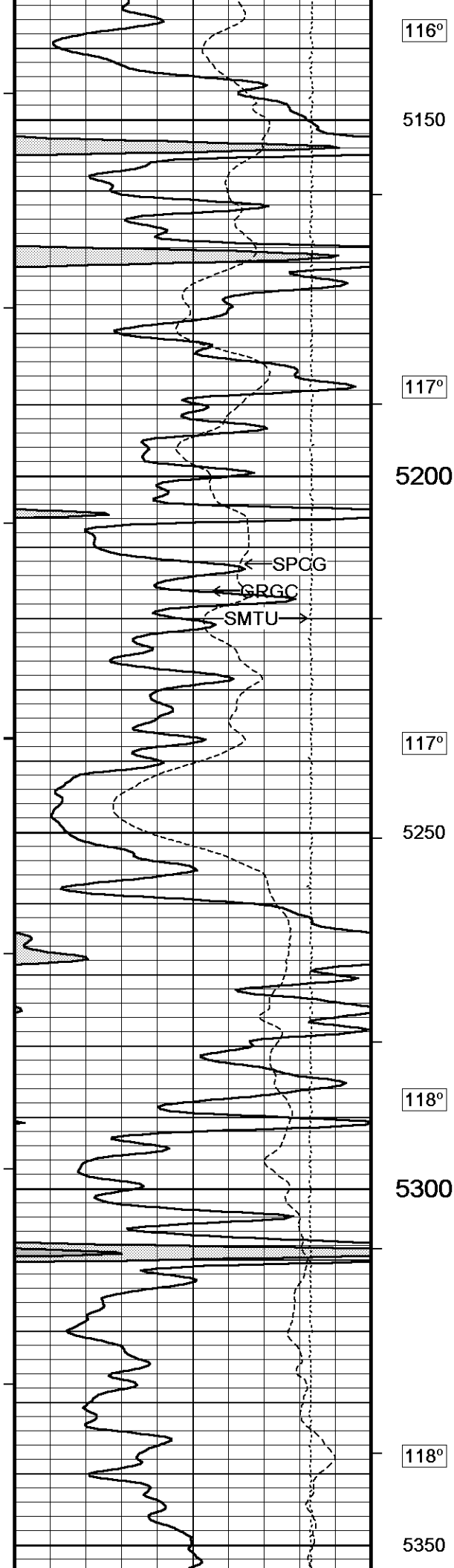






114°
4950
115°
5000
115°
5050
116°
5100
200
100





116°

5150

117°

5200

← SPCG

← GRGC

→ SMTU

117°

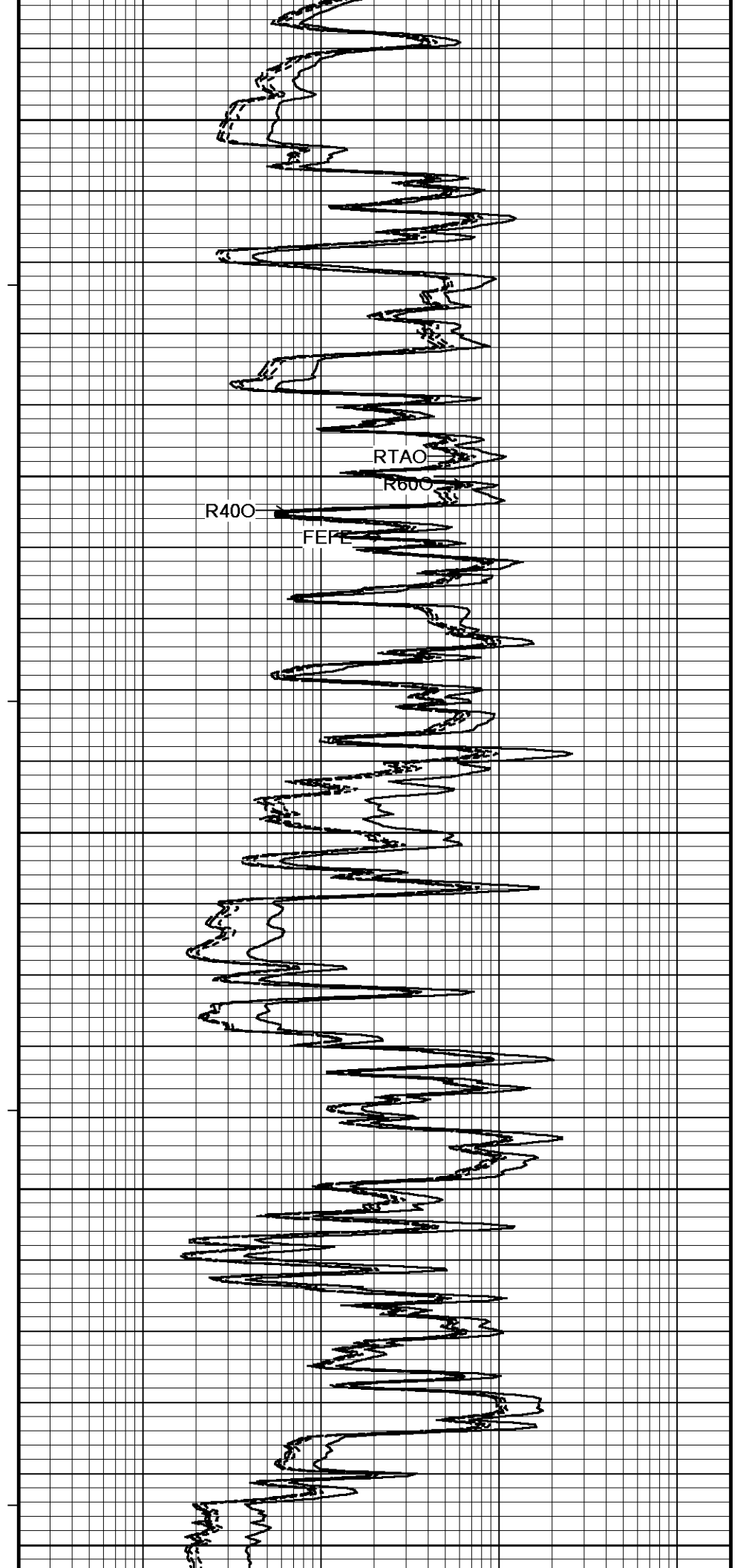
5250

118°

5300

118°

5350

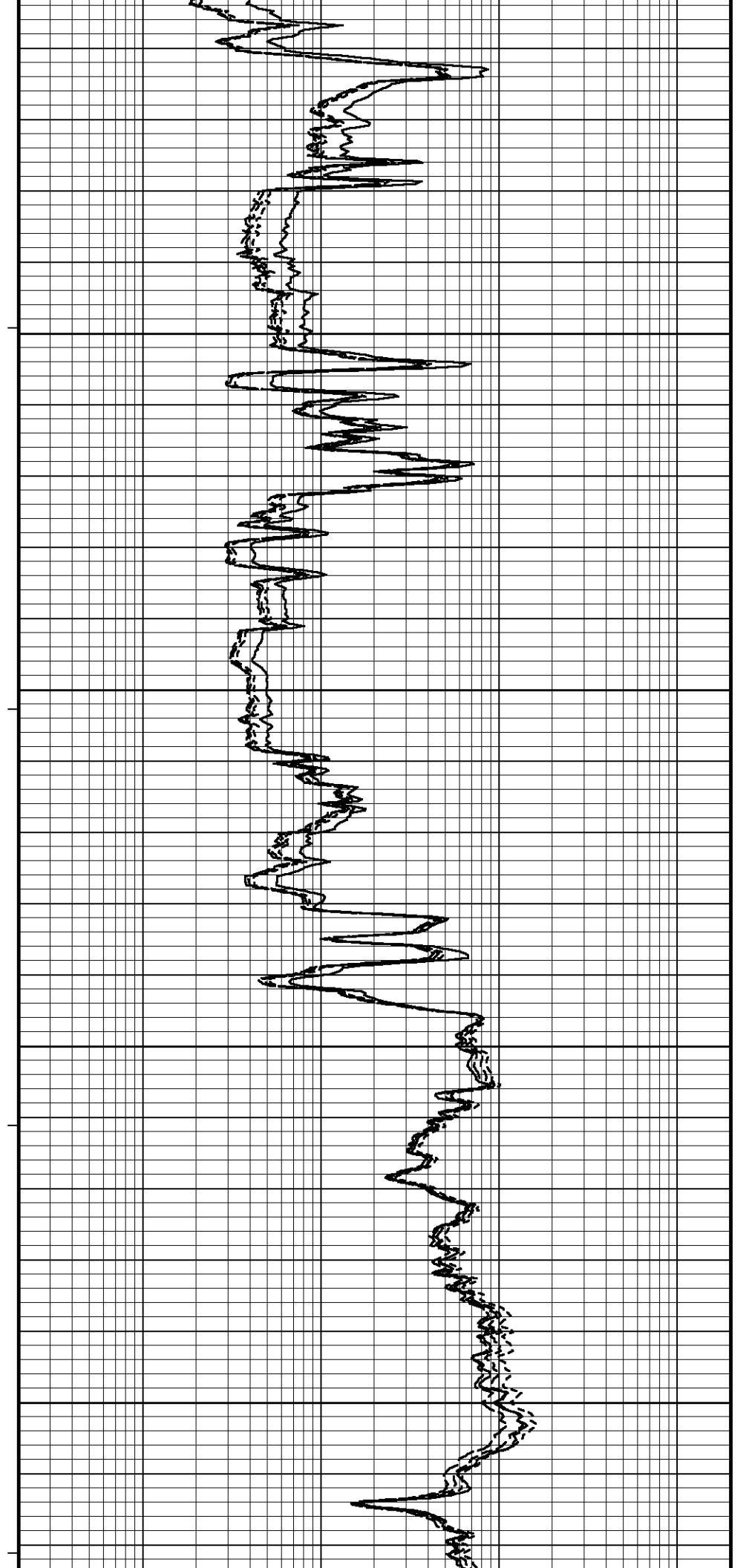
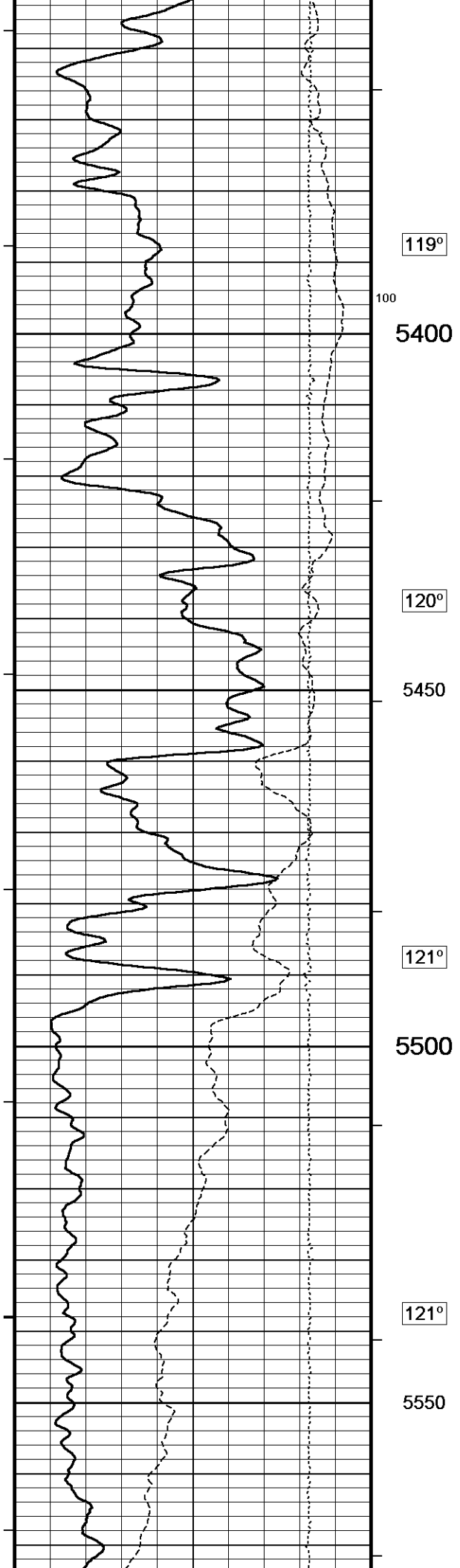


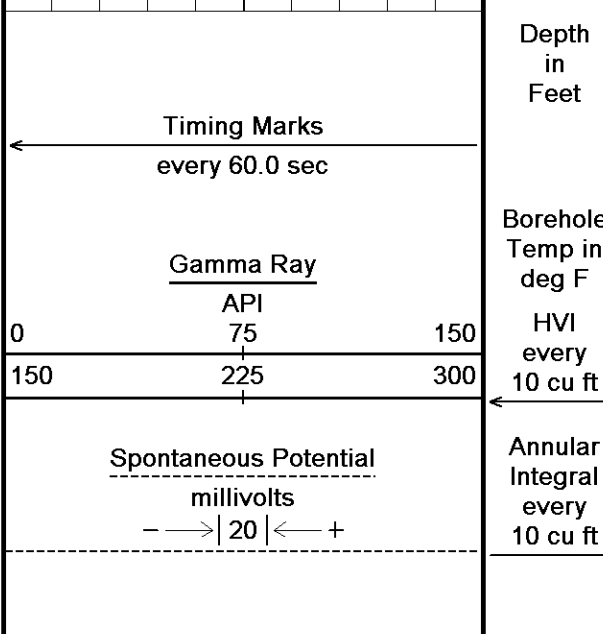
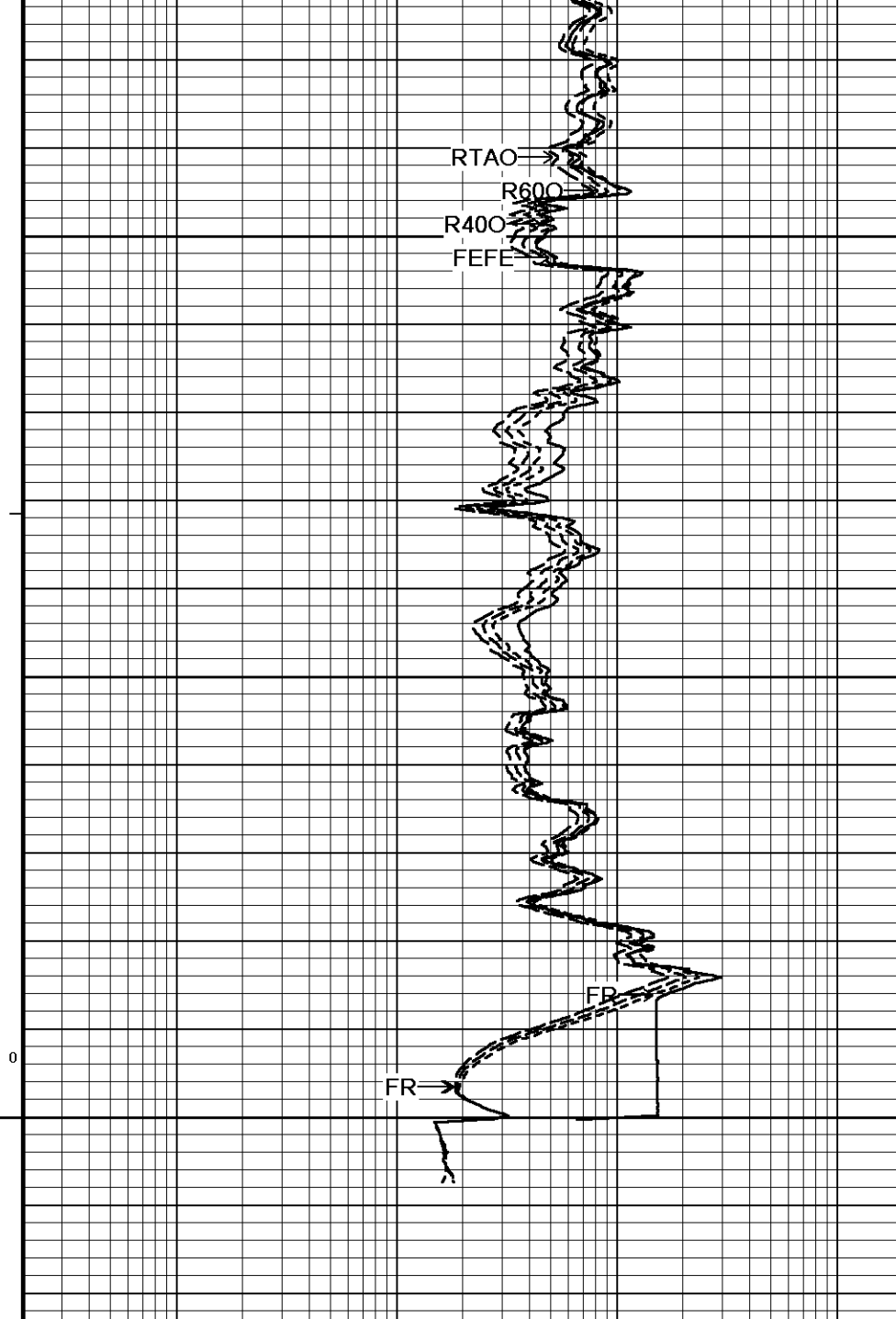
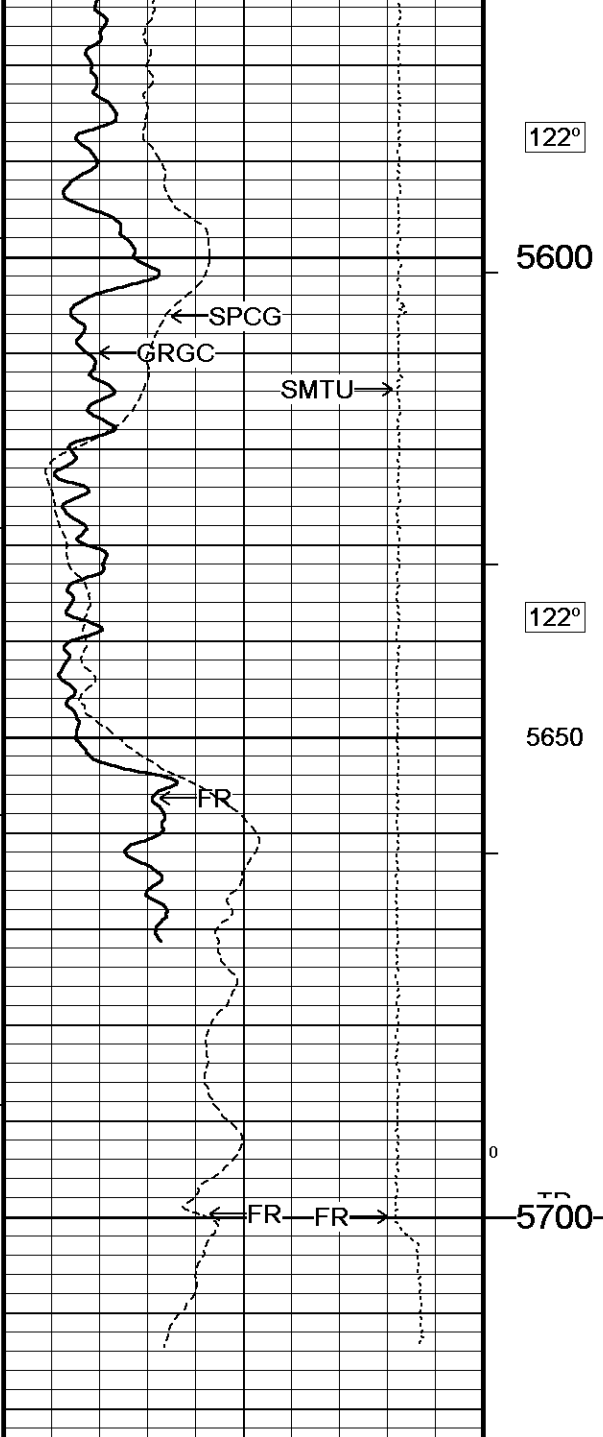
RTAO

R600

R400

FEFE

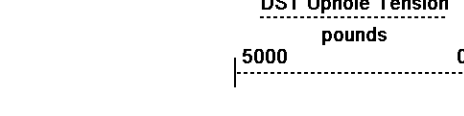




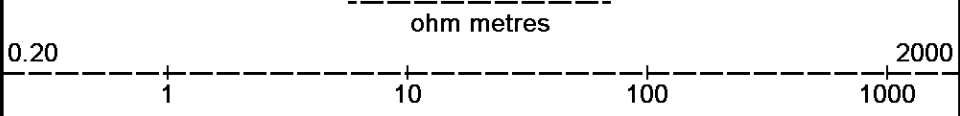
Borehole Temp in deg F

HVI every 10 cu ft

Annular Integral every 10 cu ft



Replay
Scale
1:240

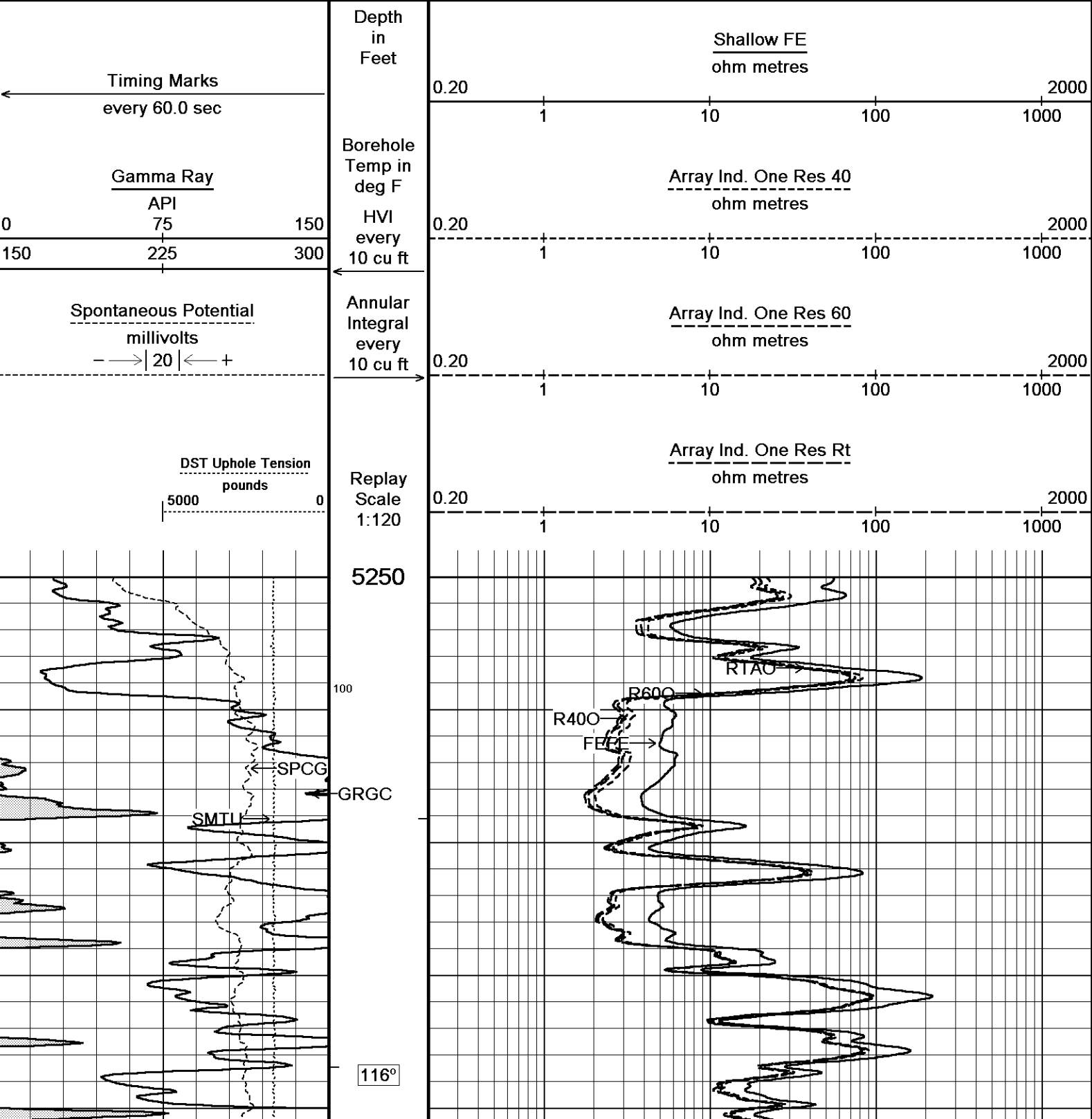


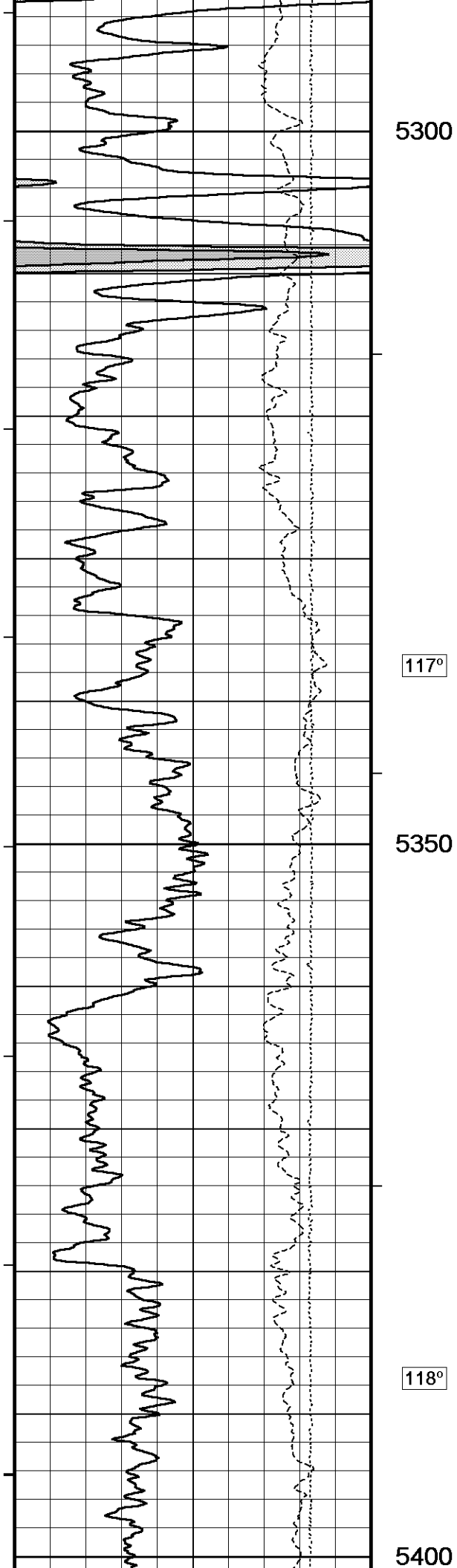
Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 01-NOV-2014 04:59
 Filename: C:\Minimus 14.03.4558\Logs\McCoy UMCC 'A' #2-17\McCoy UMCC 'A' #2-17_004.dta
 Recorded on 01-NOV-2014 02:34
 System Versions: Logged with 14.03.4558 Processed with 14.03.4558 Plotted with 14.03.4558

5 INCH MAIN

10 INCH HIGH RESOLUTION

Depth Based Data - Maximum Sampling Increment 2.5cm
 Plotted on 01-NOV-2014 04:59
 Filename: C:\Minimus 14.03.4558\Logs\McCoy UMCC 'A' #2-17\McCoy UMCC 'A' #2-17_002.dta
 Recorded on 01-NOV-2014 01:41
 System Versions: Logged with 14.03.4558 Plotted with 14.03.4558





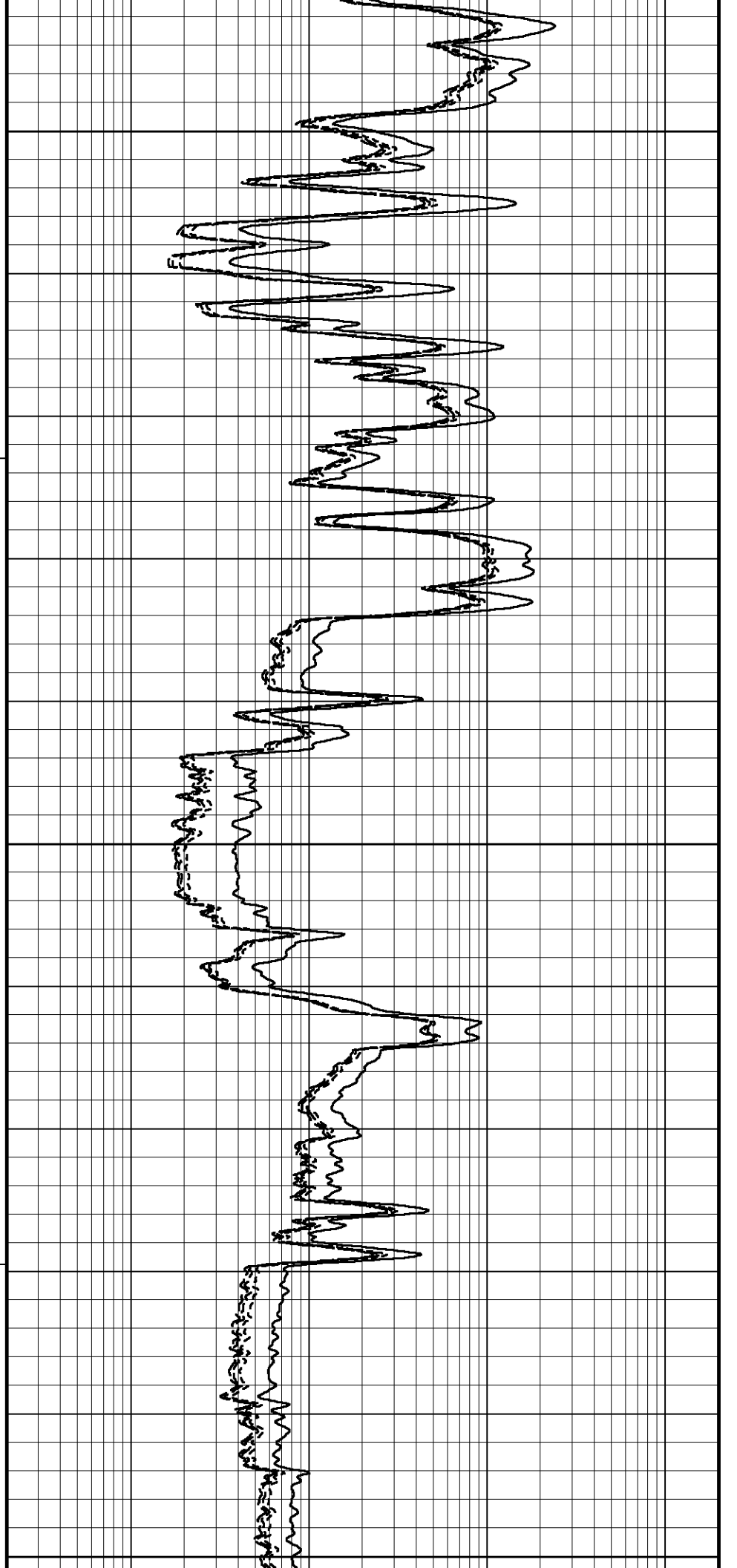
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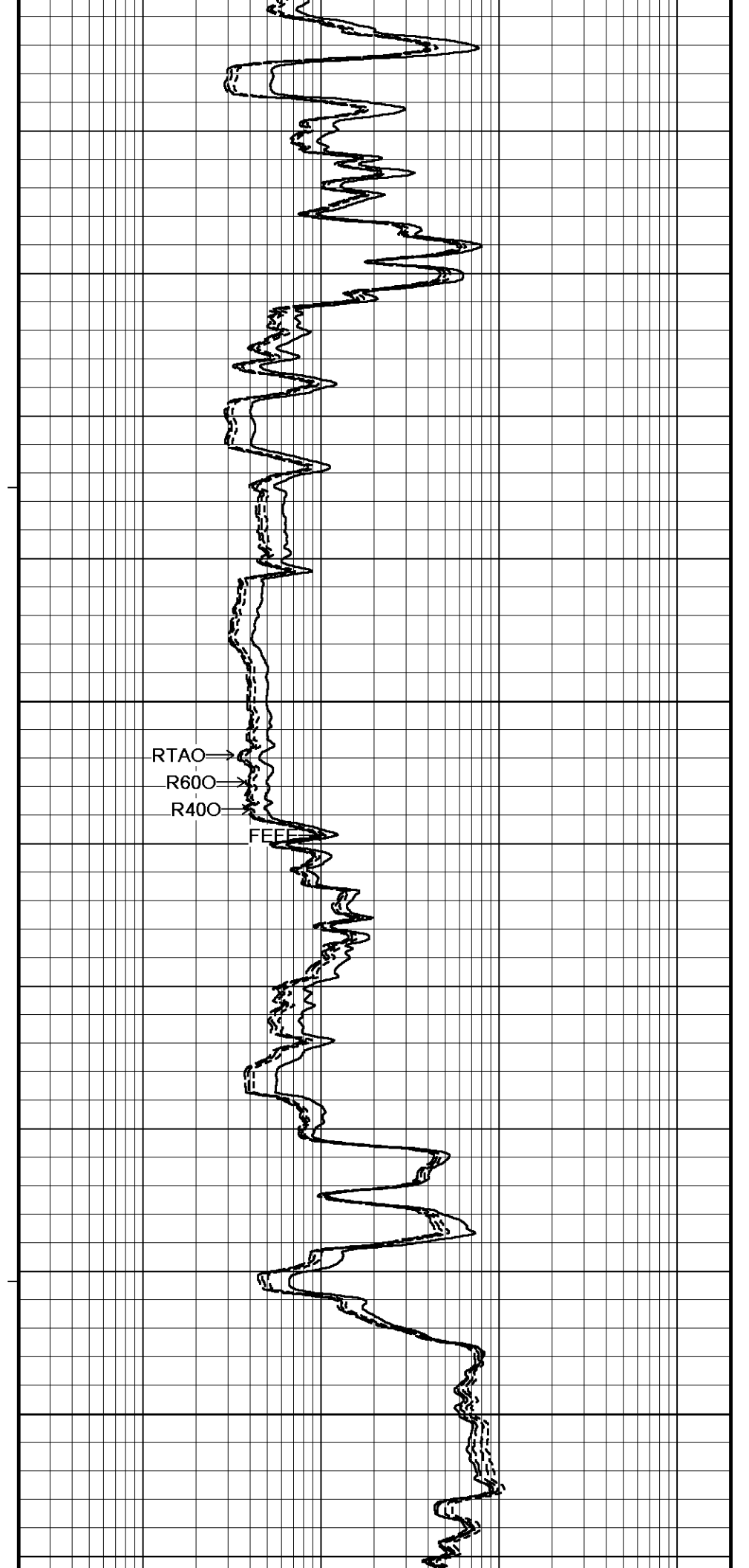
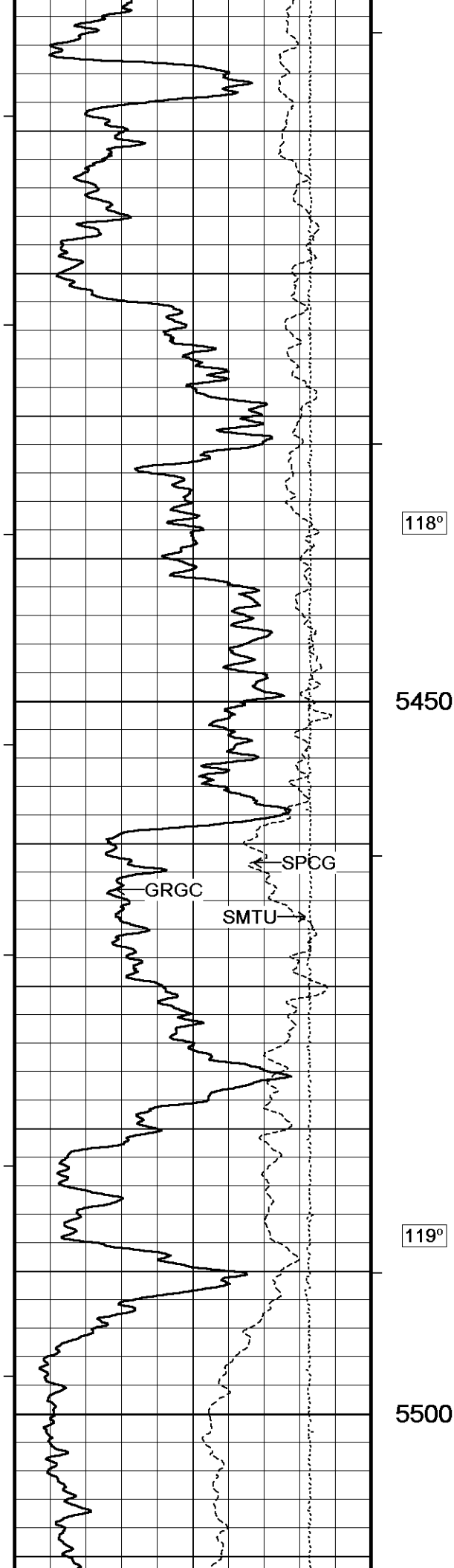
117°

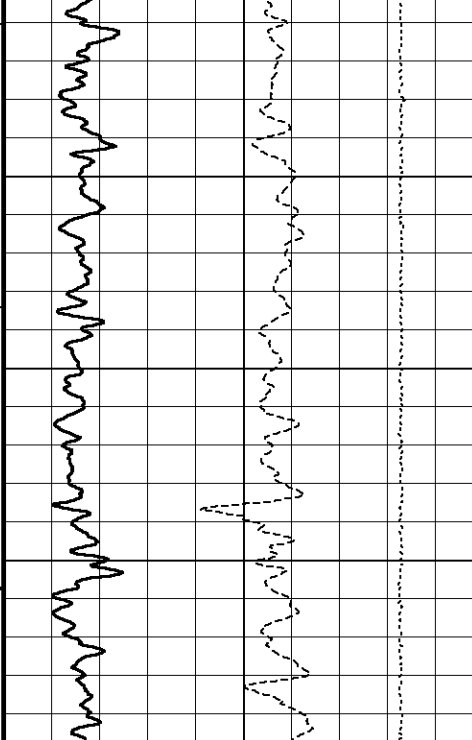
5350

118°

5400







119°

5550

Depth in Feet

Timing Marks every 60.0 sec

Gamma Ray
API
0 75 150
150 225 300

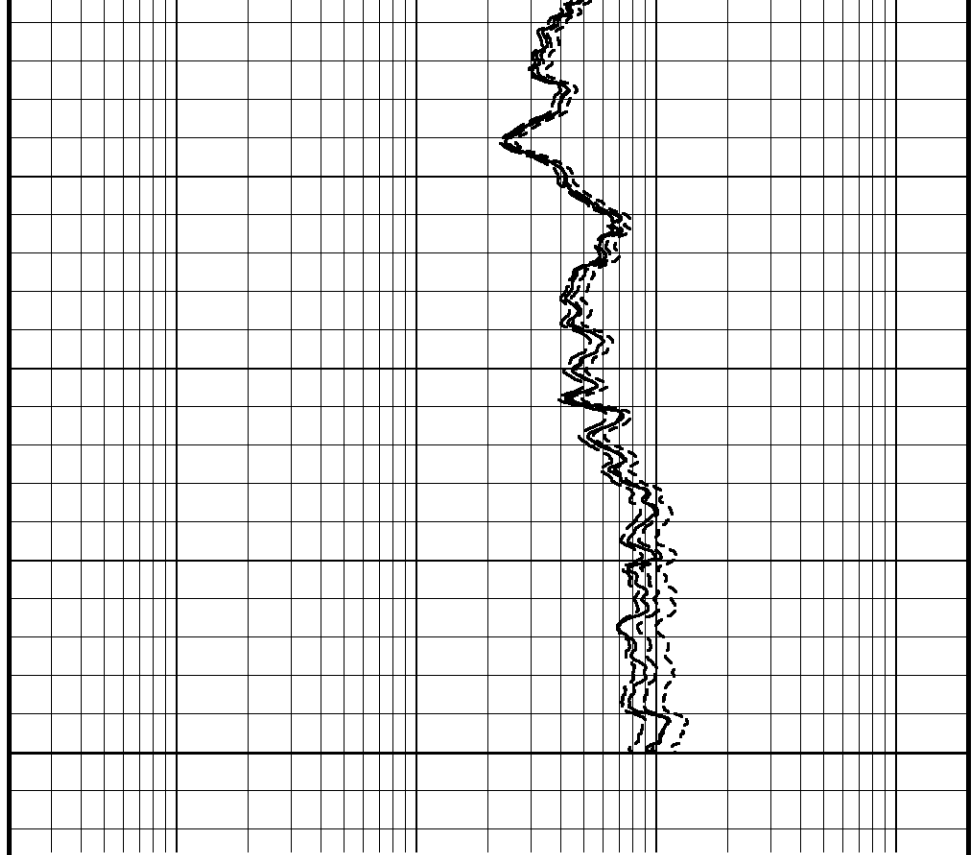
Borehole Temp in deg F
HVI every 10 cu ft

Spontaneous Potential millivolts
- -> | 20 | <- +

Annular Integral every 10 cu ft

DST Uphole Tension pounds
5000 0

Replay Scale 1:120



Shallow FE ohm metres

0.20 1 10 100 1000 2000

Array Ind. One Res 40 ohm metres

0.20 1 10 100 1000 2000

Array Ind. One Res 60 ohm metres

0.20 1 10 100 1000 2000

Array Ind. One Res Rt ohm metres

0.20 1 10 100 1000 2000

Depth Based Data - Maximum Sampling Increment 2.5cm Plotted on 01-NOV-2014 04:59
 Filename: C:\Minimus 14.03.4558\Logs\McCoy UMCC 'A' #2-17\McCoy UMCC 'A' #2-17_002.dta Recorded on 01-NOV-2014 01:41
 System Versions: Logged with 14.03.4558 Plotted with 14.03.4558

↑ 10 INCH HIGH RESOLUTION ↑

↓ REPEAT SECTION ↓

Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 01-NOV-2014 04:59
 Filename: C:\Minimus 14.03.4558\Logs\McCoy UMCC 'A' #2-17\McCoy UMCC 'A' #2-17_003.dta Recorded on 01-NOV-2014 01:41
 System Versions: Logged with 14.03.4558 Processed with 14.03.4558 Plotted with 14.03.4558



Depth in Feet

Shallow FE ohm metres

Timing Marks
every 60.0 sec

Gamma Ray
API
0 75 150
150 225 300

Spontaneous Potential
millivolts
- - -> | 20 | < - - +

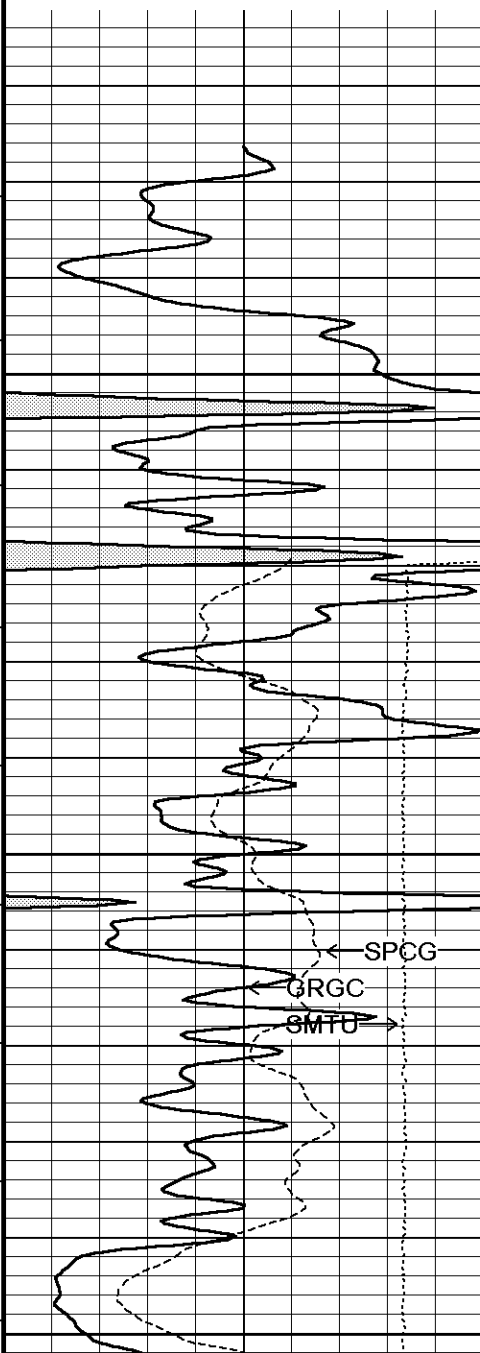
DST Uphole Tension
pounds
5000 0

Borehole
Temp in
deg F
HVI
every
10 cu ft

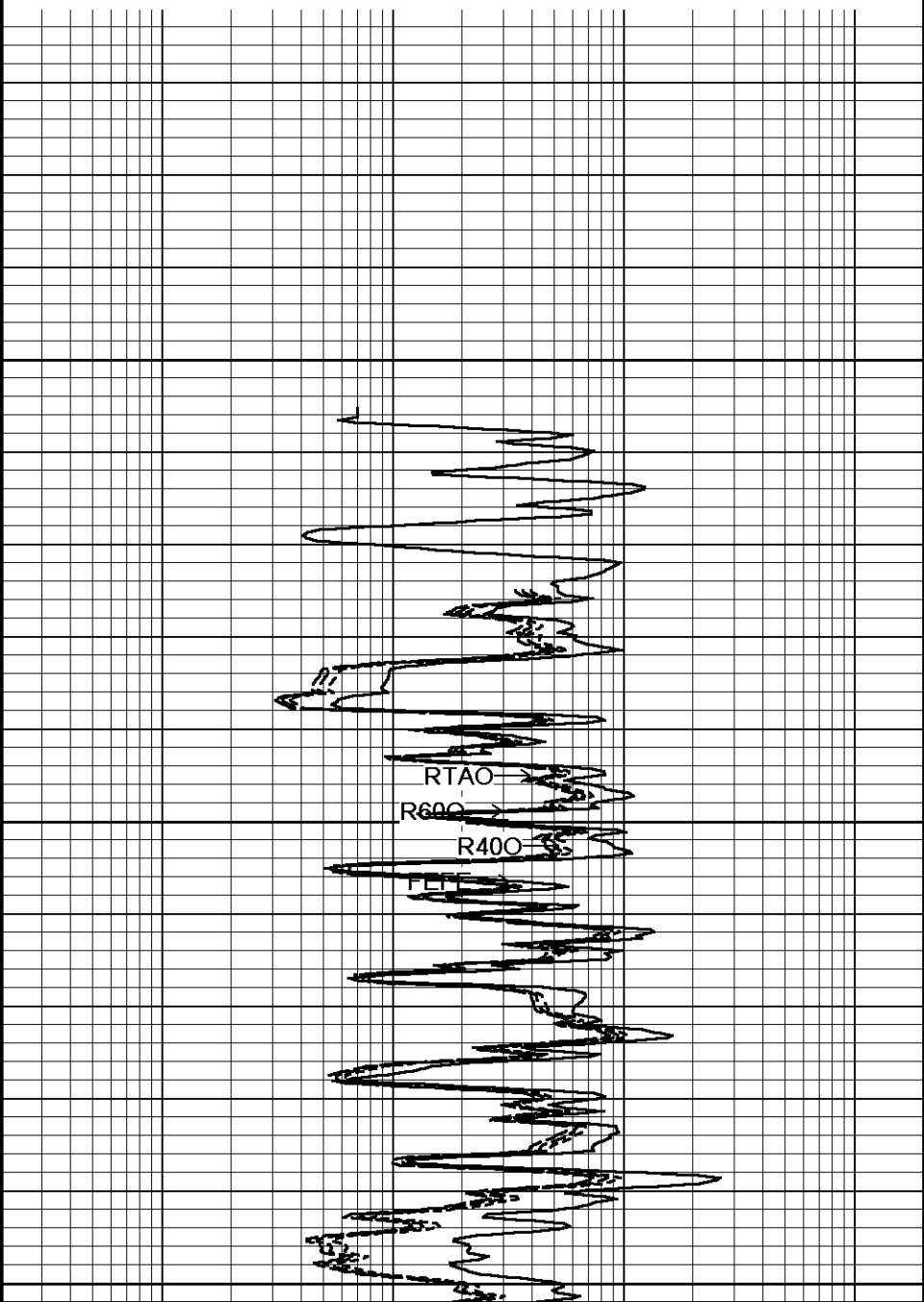
Annular
Integral
every
10 cu ft

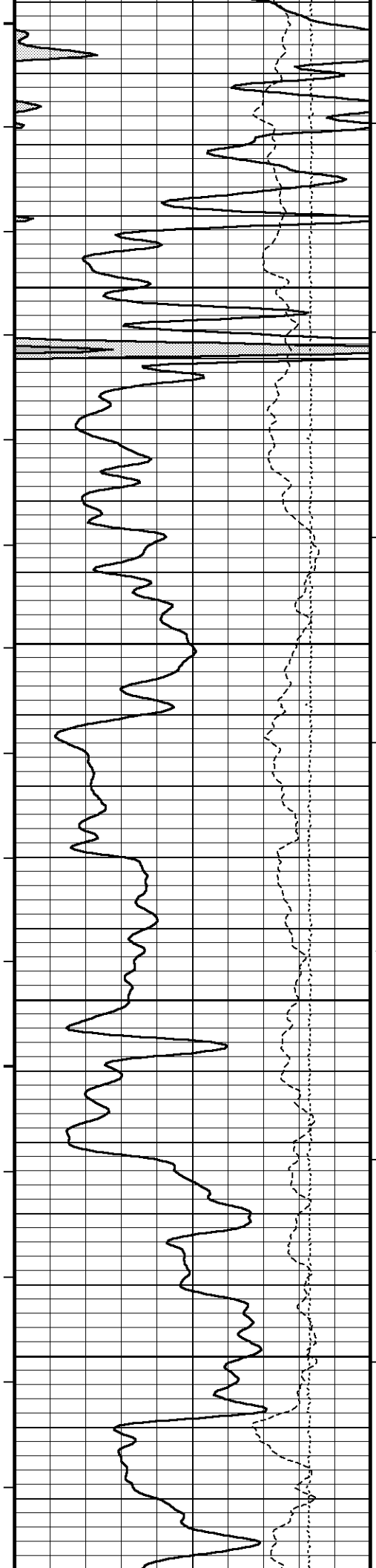
Replay
Scale
1:240

5114
5150
116°
5200
116°
5250



ohm metres
0.20 1 10 100 1000 2000
Array Ind. One Res 40
ohm metres
0.20 1 10 100 1000 2000
Array Ind. One Res 60
ohm metres
0.20 1 10 100 1000 2000
Array Ind. One Res Rt
ohm metres
0.20 1 10 100 1000 2000





116°

5300

117°

5350

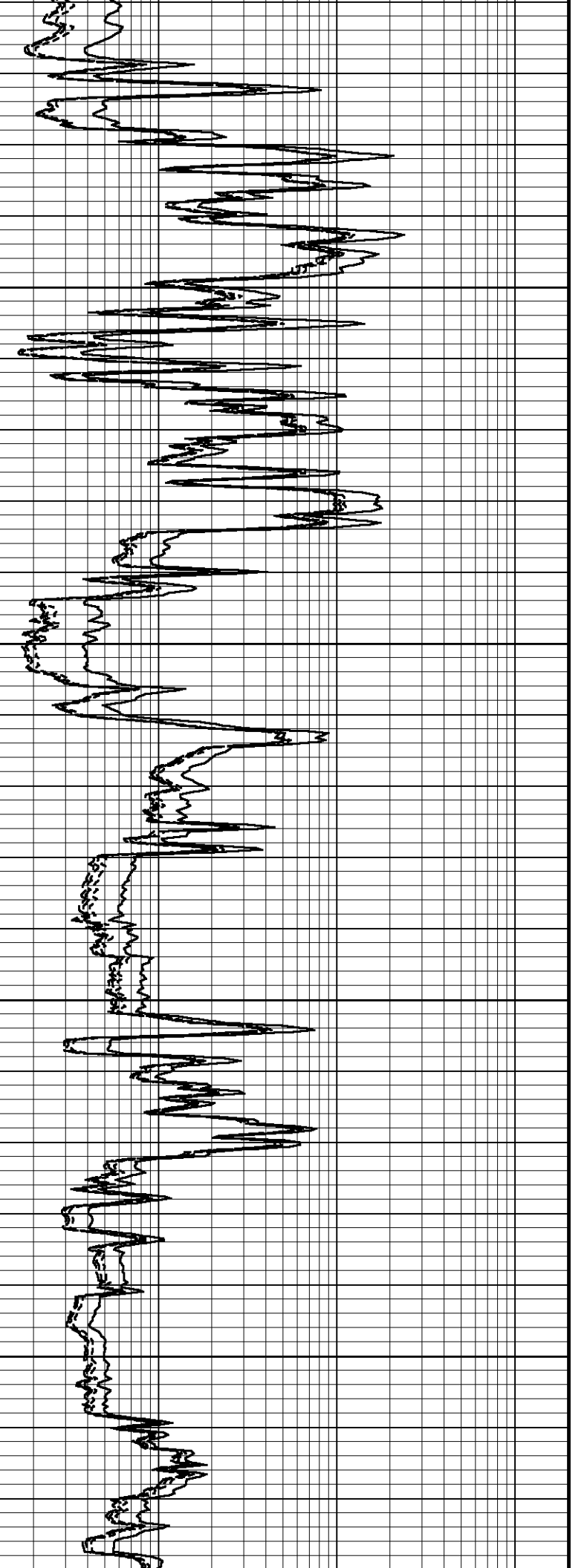
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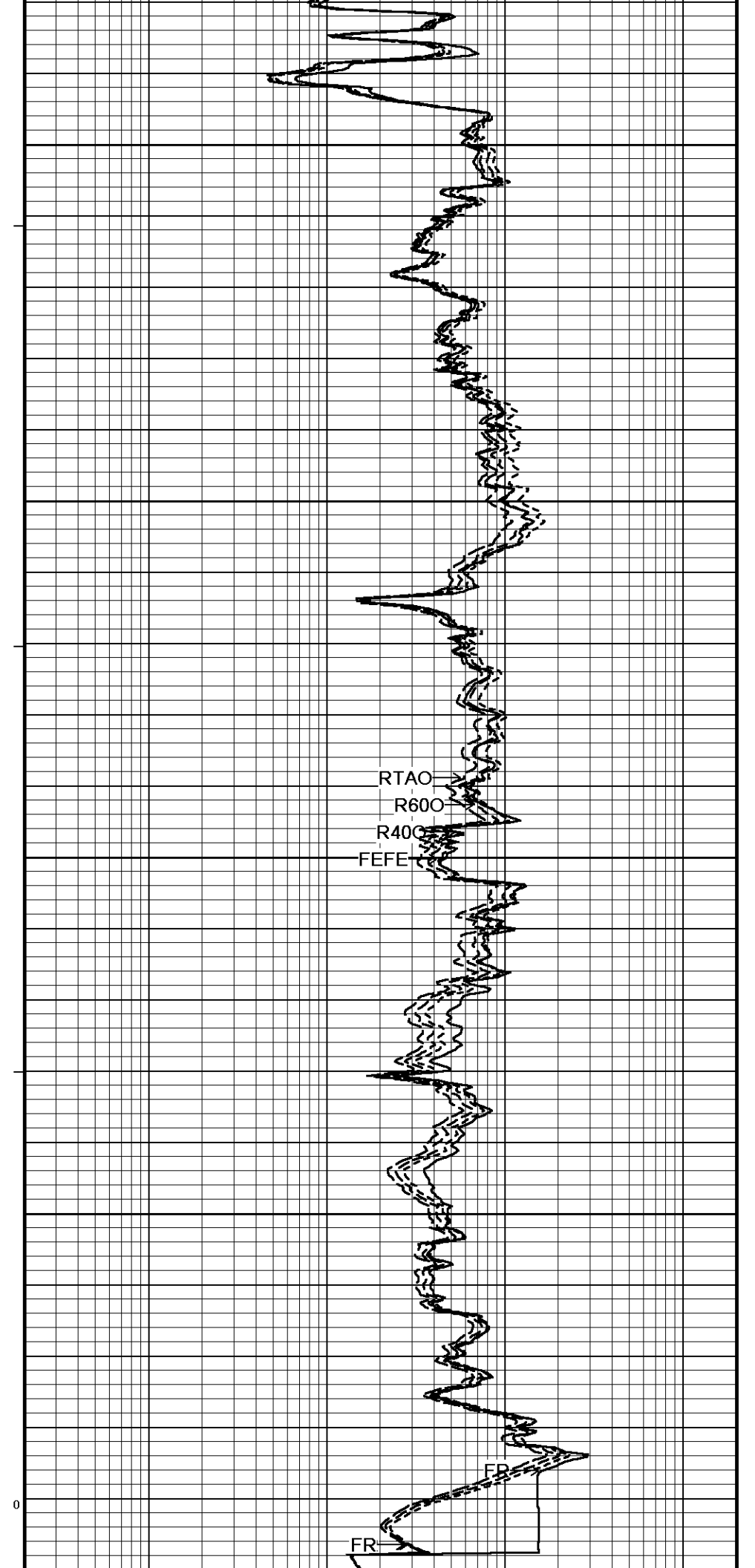
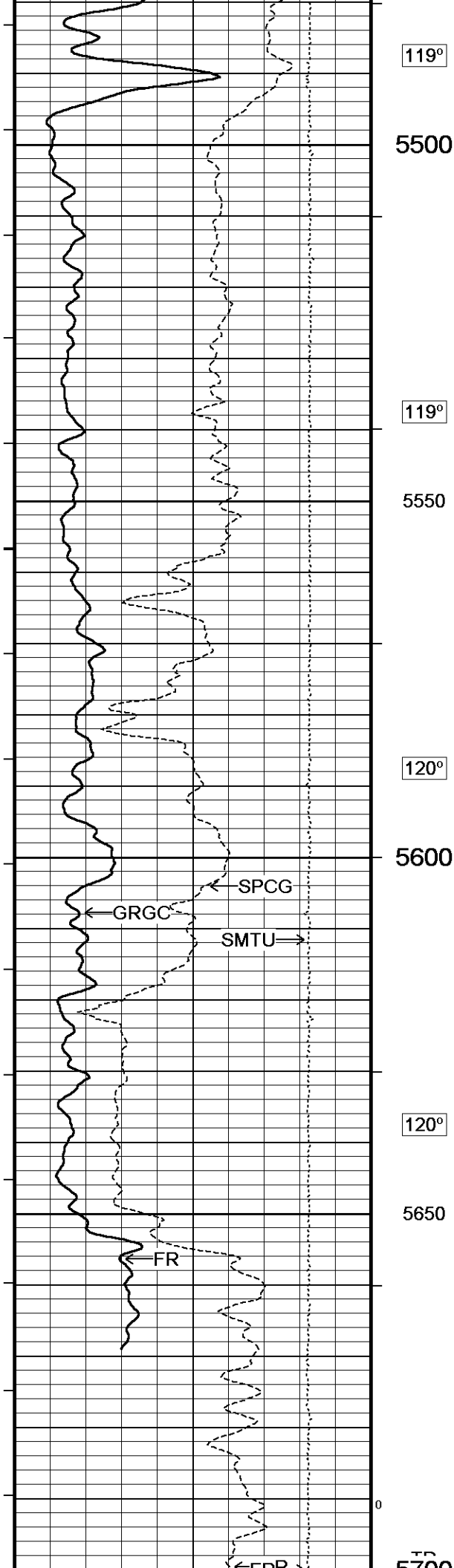
5400

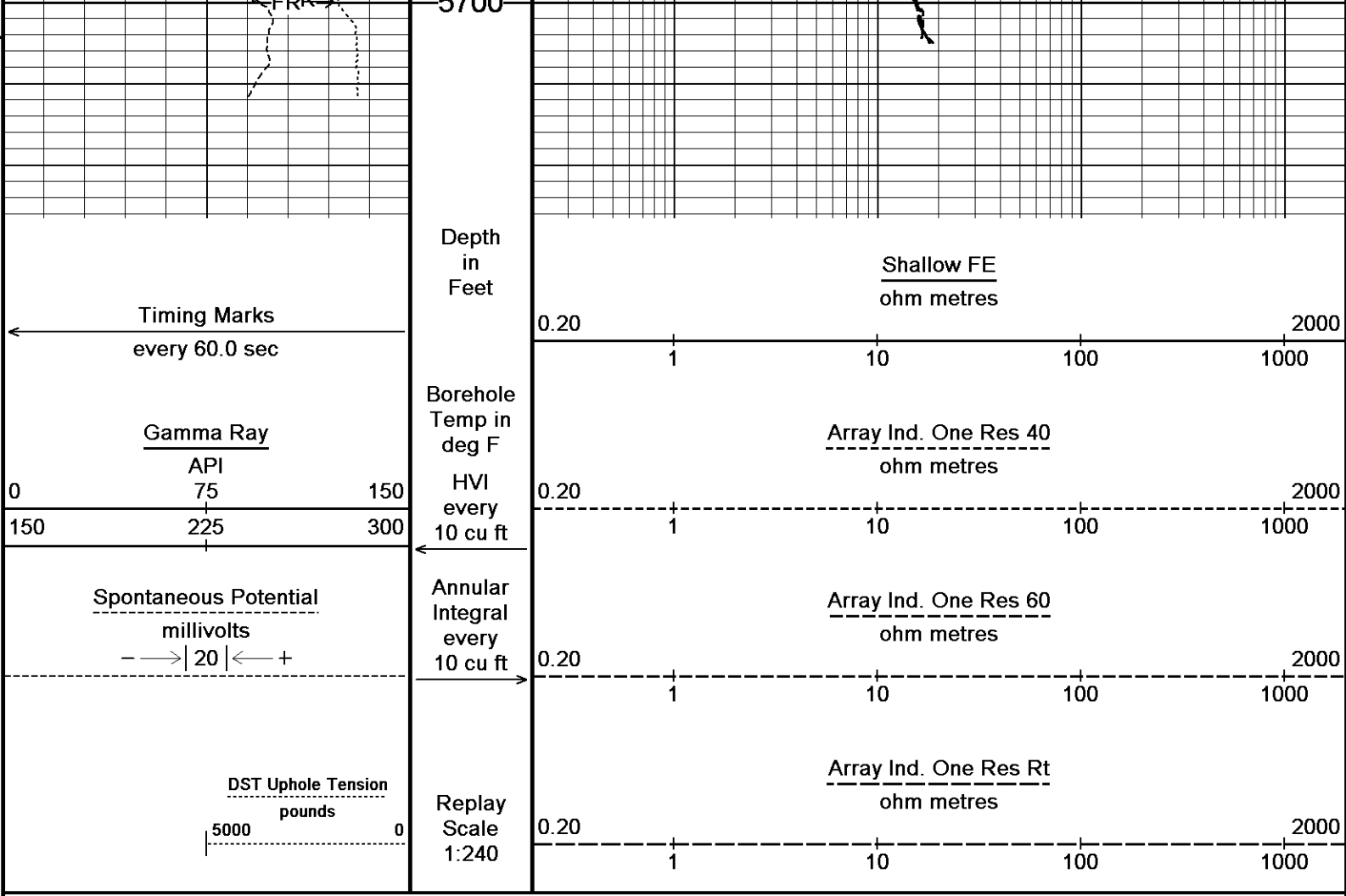
118°

5450

100







Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 01-NOV-2014 04:59
 Filename: C:\Minimus 14.03.4558\Logs\McCoy UMCC 'A' #2-17\McCoy UMCC 'A' #2-17_003.dta
 Recorded on 01-NOV-2014 01:41
 System Versions: Logged with 14.03.4558 Processed with 14.03.4558 Plotted with 14.03.4558

↑ REPEAT SECTION ↑

BEFORE SURVEY CALIBRATION

C:\Minimus 14.03.4558\Logs\McCoy UMCC 'A' #2-17\McCoy UMCC 'A' #2-17_003.dta

General Constants All 000		Last Edited on 01-NOV-2014,01:00
General Parameters		
Mud Resistivity	0.980	ohm-metres
Mud Resistivity Temperature	86.000	degrees F
Water Level	0.000	feet
Borehole Fluid 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	Crossplot Porosity	
Resistivity used	Array Ind. Four Res Rt	
RWA Constant A	0.610	
RWA Constant M	2.150	
SW/APOR Tool Source	0.000	

Down-hole Tension Calibration SMS 0 Field Calibration on 30-OCT-2014 14:32

Reading No	Measured	Calibrated (lbs)	

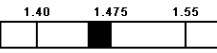
1	15642.77	0.00
2	16066.82	481.00

Gamma Calibration MCG-C 208

Field Calibration on 31-OCT-2014 14:55

	Measured	Calibrated (API)
Background	77	53
Calibrator (Gross)	1129	778
Calibrator (Net)	1052	725

Gamma Calibration Tolerances MCG-C 208

Ratio 1.451  Counts/API

Gamma Constants MCG-C 208

Last Edited on 31-OCT-2014,22:00

Gamma Calibrator Number	GRC038	
GRC-M Calibrator Jig in Use?	NO	
Inactive Background Jig in Use?	NO	
Mud Density	1.10	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl		kppm
K Mud Type	Chloride	
K Mud Concentration	0.00	%

SP Calibration MCG-C 208

Field Calibration on 28-OCT-2014 16:26

	Measured	Calibrated (mV)
Reference 1	100.0	99.2
Reference 2	-98.0	-99.0

High Resolution Temperature Calibration MCG-C 208

Field Calibration on 23-SEP-2014,19:44

	Measured	Calibrated(Deg F)
Lower	10.00	10.00
Upper	100.00	100.00

High Resolution Temperature Constants MCG-C 208

Last Edited on 23-SEP-2014,19:44

Pre-filter Length 11

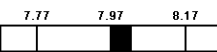
Caliper Calibration MMR-C.A 248

Base Calibration on 23-OCT-2014 09:52
Field Calibration on 31-OCT-2014 13:42

Base Calibration	Measured	Calibrator Size (in)
Reading No		
1	13737	5.96
2	17108	7.98
3	20397	9.85
4	24360	11.92
5	0	0.00
6	N/A	N/A

Field Calibration	Measured Caliper (in)	Actual Caliper (in)
	8.02	7.97

Caliper Calibration Tolerances MMR-C.A 248

Short Arm Field Cal. 8.02  in

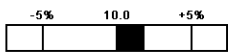

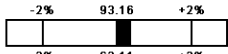
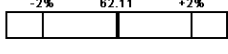
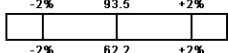
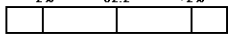
Micro Normal and Micro Inverse Calibration MMR-C.A 248

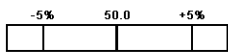
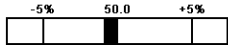
Base Calibration on 23-OCT-2014 10:02
Field Check on 30-OCT-2014 10:19

Base Calibration	Measured		Calibrated (ohm-m)	
Channel	Resistor 1	Resistor 2	Resistor 1	Resistor 2
Micro Normal	10.2	49.9	5.1	25.6
Micro Inverse	9.9	49.5	3.4	16.9

Channel	Base Check (ohm-m)	Field Check (ohm-m)
Micro Normal	93.5	93.5
Micro Inverse	62.2	62.2

Micro Normal & Micro Inverse Calibration Tolerance MMR-C.A 248

Micro Normal Res. 1 10.2  ohm
 Micro Inverse Res. 1 9.9  ohm
 Micro Normal Base Check 93.5  ohm-m
 Micro Inverse Base Check 62.2  ohm-m
 Micro Normal Field Check 93.5  ohm-m
 Micro Inverse Field Check 62.2  ohm-m

Micro Normal Res. 2 49.9  ohm
 Micro Inverse Res. 2 49.5  ohm

Micro Normal and Micro Inverse Constants MMR-C.A 248

Last Edited on 19-SEP-2014,16:14

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 0.0000 inches

Micro-Resistivity Caliper Constants MMR-C.A 248

Last Edited on

Sonde Configuration Resistivity Mode

Micro Laterolog Calibration MMR-C.A 248

Base Calibration on 31-DEC-1999 00:00
 Field Check on 31-DEC-1999 00:00

Base Calibration

	Measured		Calibrated (ohm-m)	
	Ref 1	Ref 2	Ref 1	Ref 2
	0.0	0.0	0.0	0.0
Base Check (ohm-m)			Field Check (ohm-m)	
	0.0		0.0	

Micro Laterolog Constants MMR-C.A 248

Last Edited on 23-SEP-2014,18:59

Pad Type 6 in Solid Nylon B23059
 Micro Laterolog K Factor 0.0128
 Standoff Offset 0.0000 inches

Mudcake Thickness Correction Constants

Mud Cake Source Constant Value
 Mud Cake Thickness 0.4000 inches
 Mud Cake Thickness Caliper N/A
 Mud Cake Resistivity 0.1500 ohm-m
 Mud Cake Resistivity Temp. 68.00 Deg F
 Mud Cake Resistivity Source Constant Value
 Temp. Source Rmc Correc. N/A


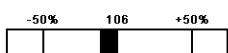
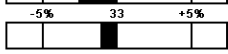
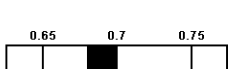
Neutron Calibration MDN-A.B 163

Base Calibration on 22-OCT-2014 17:32
 Field Check on 31-OCT-2014 15:01

Base Calibration

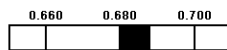
	Measured		Calibrated (cps)	
	Near	Far	Near	Far
Ratio	3042	93	3714	110
	32.627		33.764	
Field Calibrator at Base			Calibrated (cps)	
Ratio			1687	2482
			0.680	
Field Check			Calibrated (cps)	
Ratio			1689	2455
			0.688	

Neutron Calibration Tolerances MDN-A.B 163

Near Reading 3042  cps Far Reading 93  cps
 Ratio 32.627 
 Base Check 0.680 

Field Check

0.688



Neutron Constants MDN-A.B 163

Last Edited on 31-OCT-2014,22:00

Neutron Source Id	P58125B	
Neutron Jig Number	5824NE	
Air Hole Processing	Legacy	
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	None	
Formation Pressure	N/A	kpsi
Temperature Source	Constant Value	
Temperature	68.00	degrees F
Mud Salinity	0.00	kppm
Salinity Correction	Not Applied	
Formation Fluid Salinity Source	None	
Formation Fluid Salinity	N/A	kppm
Barite Mud Correction	Not Applied	

FE Calibration MFE-A.A 55

Base Calibration on 23-OCT-2014 09:18
Field Check on 31-OCT-2014 13:33

Base Calibration		
	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	950.6	126.8
Base Check		282.0
Field Check		281.8

FE Calibration Tolerances MFE-A.A 55

Reference 2	950.6		ohm
Base Check	282.0		ohm-m
Field Check	281.8		ohm-m

FE Constants MFE-A.A 55

Last Edited on 31-OCT-2014,21:59

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

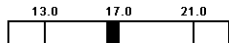
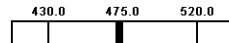

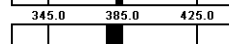
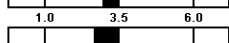
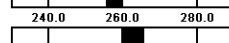
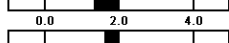
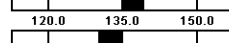
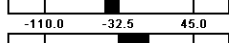
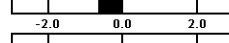
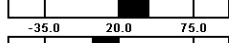
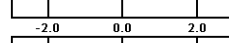
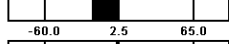
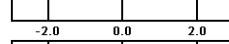
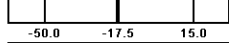
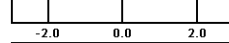
Induction Calibration MAI-A.A 5

Base Calibration on 22-OCT-2014,13:28
Field Check on 31-OCT-2014 13:32

Base Calibration					
Test Loop Calibration		Measured		Calibrated (mmho/m)	
Channel		Low	High	Low	High
1		16.3	470.8	9.3	966.2
2		5.6	376.1	7.6	821.4
3		2.6	266.1	5.2	566.0
4		1.6	130.0	2.6	279.2
Array Temperature		71.1		Deg F	
Test Loop Calibration Verified					
Channel		Base Check (mmho/m)		Field Check (mmho/m)	
		Low	High	Low	High
1		0.0	0.0	14.6	3863.4
2		0.0	0.0	31.6	3591.3

3	0.0	0.0	29.7	2971.7
4	0.0	0.0	20.7	2126.5
Deep			18.4	1912.3
Medium			42.9	3861.6
Shallow			47.0	5373.5
Array Temperature		0.0	65.9	Deg F

Induction Calibration Tolerances MAI-A.A 5

Low Conductivity 1	16.3		mmho/m	High Conductivity 1	470.8		mmho/m
Low Conductivity 2	5.6		mmho/m	High Conductivity 2	376.1		mmho/m
Low Conductivity 3	2.6		mmho/m	High Conductivity 3	266.1		mmho/m
Low Conductivity 4	1.6		mmho/m	High Conductivity 4	130.0		mmho/m
Background Vx 1	0.0		mmho/m	Phase Check Loop 1	0.0		%
Background Vx 2	0.0		mmho/m	Phase Check Loop 2	0.0		%
Background Vx 3	0.0		mmho/m	Phase Check Loop 3	0.0		%
Background Vx 4	0.0		mmho/m	Phase Check Loop 4	0.0		%

Induction Constants MAI-A.A 5

Last Edited on 31-OCT-2014,21:59

Induction Model	RtAP-WBM		
Caliper for Borehole Corr.	Density Caliper		
Hole Size for Borehole Correction	2.500	inches	
Tool Centred	No		
Stand-off Type	Fins		
Stand-off	0.50	inches	
Number of Fins on Stand-off	8.0000		
Stand-off Fin Angle	45.00	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		
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-A.A 5

Field Calibration on 01-NOV-2014,01:00

	Measured	Calibrated(Deg F)
Lower	10.00	10.00
Upper	100.00	100.00

High Resolution Temperature Constants MAI-A.A 5

Last Edited on 01-NOV-2014,01:00

Pre-filter Length	11
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Photo Density Calibration MPD-D.A 481

Base Calibration on 22-OCT-2014 15:53
Field Check on 31-OCT-2014 14:41

Density Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Base Calibration				
Background	1210	1421		
Reference 1	55376	26233	59556	30836
Reference 2	22300	2596	24941	2541

Field Check at Base
1210.3 1420.8

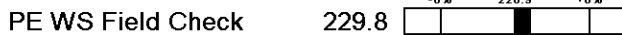
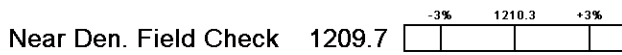
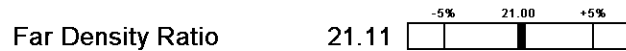
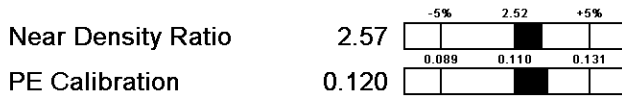
Field Check
1209.7 1418.0

PE Calibration	Measured			Calibrated Ratio
	WS	WH	Ratio	
Base Calibration				
Background	227	1078		
Reference 1	23980	55175	0.439	0.371
Reference 2	6780	22159	0.311	0.272

Field Check at Base
226.9 1078.0

Field Check
229.8 1081.8

Photo Density Calibration Tolerances MPD-D.A 481



Density Constants MPD-D.A 481

Last Edited on 31-OCT-2014,22:00

Density Source Id	P50557B	
Nylon Calibrator Number	DNCE695	
Aluminium Calibrator Number	DACD698	
Density Shoe Profile	8 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.10	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 (m)	
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	

Caliper Calibration MPD-D.A 481

Base Calibration on 22-OCT-2014 15:01
Field Calibration on 31-OCT-2014 13:35

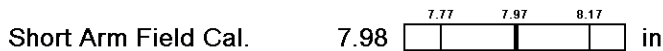
Base Calibration	Measured	Calibrator Size (in)
Reading No		
1	17509	3.99
2	27597	5.98
3	37616	7.97

4	47437	9.86
5	58570	11.92
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
7.98	7.97

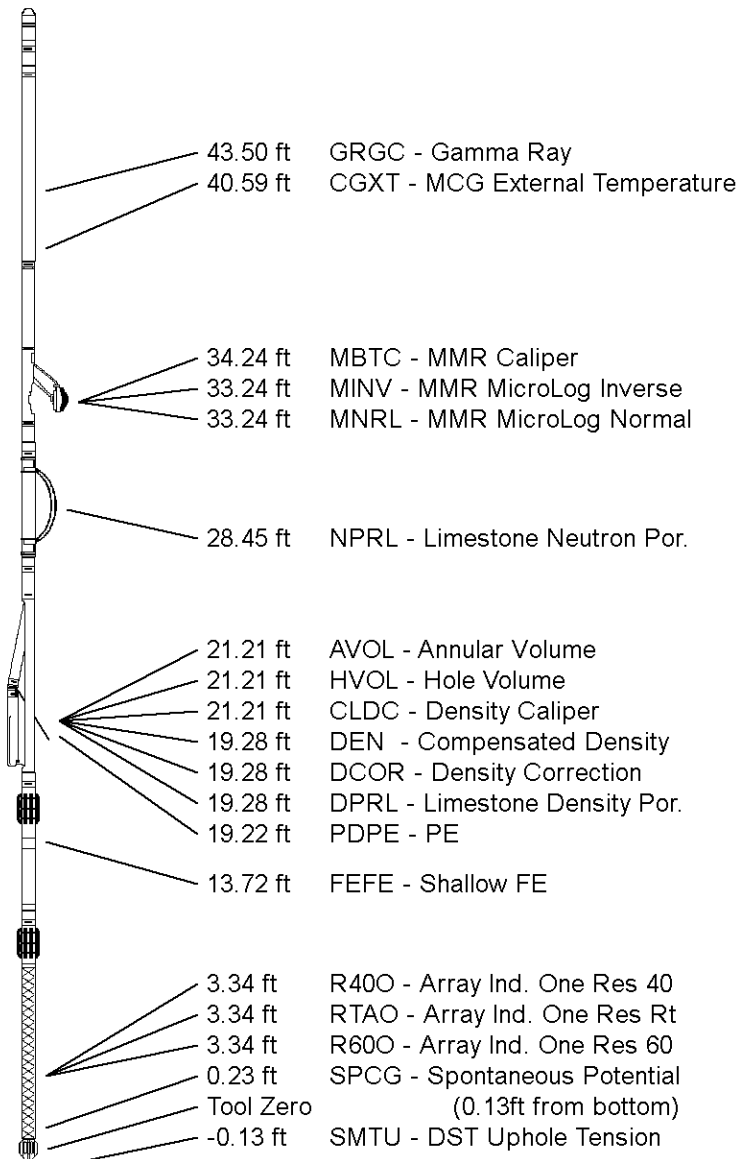
Caliper Calibration Tolerances MPD-D.A 481



DOWNHOLE EQUIPMENT

C:\Minimus 14.03.4558\Logs\McCoy UMCC 'A' #2-17\McCoy UMCC 'A' #2-17_003.dta

- CBH-C, Cablehead, 11 pin
CBH-C 0 LG: 2.40 ft WT: 24.3 lb OD: 2.244 in
- Compact Comms Gamma
MCG-C 208 LG: 8.70 ft WT: 63.9 lb OD: 2.244 in
- Compact Micro-Resistivity
MMR-C.A 248 LG: 8.59 ft WT: 81.6 lb OD: 4.882 in
- Compact Neutron
MDN-A.B 163 LG: 5.04 ft WT: 50.7 lb OD: 2.244 in
- Compact Density/Caliper
MPD-D.A 481 LG: 9.59 ft WT: 90.4 lb OD: 2.449 in
- Compact Focussed Electric
MFE-A.A 55 LG: 6.05 ft WT: 48.5 lb OD: 2.244 in
- Compact Induction
MAI-A.A 5 LG: 10.81 ft WT: 48.5 lb OD: 2.244 in
- Total Length: 51.18 ft Weight: 407.9 lb**



COMPANY	McCOY PETROLEUM CORPORATION
WELL	UMCC 'A' #2-17
FIELD	WILDCAT
PROVINCE/COUNTY	MEADE
COUNTRY/STATE	U.S.A. / KANSAS

Elevation Kelly Bushing	2830.00	feet	First Reading	5697.00	feet
Elevation Drill Floor	2828.00	feet	Depth Driller	5700.00	feet
Elevation Ground Level	2819.00	feet	Depth Logger	5700.00	feet



Weatherford®

ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG

Weatherford		ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG	
COMPANY	MCCOY PETROLEUM CORPORATION	WELL	UMCC 'A' #2-17
FIELD	WILDCAT	PROVINCE/COUNTY	MEADE
COUNTRY/STATE	U.S.A. / KANSAS	LOCATION	6801 E.S.L. & 1980' E.W.L.
SEC. 17	TWP. 30S	RGE. 30W	TOWNSHIP
Latitude	35.192129	Longitude	-98.000000
Well Number	15-19-2129	MP/DIMEN	MML
Permanent Datum G.L.	Elevation: 2819.16ft	Log Measured From KB	2830.00
Drilling Measured From KB	@ 11 FEET	2828.00	2819.00
Date	31-OCT-2014		
Run Number	ONE		
Service Order	4558-101987382		
Depth Driller	5700.00	feet	
Depth Logger	5700.00	feet	
First Reading	5897.00	feet	
Last Reading	1829.00	feet	
Casing Driller	1829.00	feet	
Casing Logger	1829.00	feet	
Bit Size	7.875	inches	
Hole Fluid Type	CHEMICAL		
Density/Viscosity	9.20 lb/USg	48.00 CP	
PH/Fluid Loss	10.00	8.80 m3/30min	
Sample Source			
Flowline			
Rm @ Measured Temp	0.98 @ 88.0	ohm-m	
Rm @ Measured Temp	0.78 @ 88.0	ohm-m	
Rm @ Measured Temp	1.18 @ 88.0	ohm-m	
Source Rm / Rm	CALC	CALC	
Rm @ BHT	0.69 @ 122.0	ohm-m	
Time Since Circulation	5 HOURS	deg F	
Max Recorded Temp	132.00	deg F	
Equipment / Base	13244	LIB	
Recorded By	ADAM SILL		
Missed By	DAVE WILLIAMS		
Job #	1814-341		

1 INCH MAIN

Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 01-NOV-2014 04:59
 Filename: C:\Minimus 14.03.4558\Log\McCoy UMCC 'A' #2-17\McCoy UMCC 'A' #2-17_004.dta Recorded on 01-NOV-2014 02:34
 System Versions: Logged with 14.03.4558 Processed with 14.03.4558 Plotted with 14.03.4558

