



Weatherford

ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG

COMPANY	McCOY PETROLEUM CORPORATION			
WELL	PATTERSON-O'BRADE 'A' 3-17			
FIELD	MERTILLA SOUTHEAST			
PROVINCE/COUNTY	MEADE			
COUNTRY/STATE	U.S.A. / KANSAS			
LOCATION	990' FNL & 1650' FWL			
SEC 17	TWP 30S	RGE 30W	Other Services	
Latitude			MPD/MDN	
Longitude			MML	
API Number	15-119-21378			
Permanent Datum GL, Elevation	2814 feet			
Log Measured From KB			Elevations: KB 2825.00 DF 2823.00 GL 2814.00	
Drilling Measured From KB @	11 feet			
Date	10-NOV-2014			
Run Number	ONE			
Service Order	7577-102837829			
Depth Driller	5700.00		feet	
Depth Logger	5702.00		feet	
First Reading	5699.00		feet	
Last Reading	1858.00		feet	
Casing Driller	1857.00		feet	
Casing Logger	1858.00		feet	
Bit Size	7.875		inches	
Hole Fluid Type	CHEMICAL			
Density / Viscosity	9.25 lb/USg		48.00 CP	
PH / Fluid Loss	9.50		8.00 ml/30Min	
Sample Source	MUD PIT			
Rm @ Measured Temp	1.97 @ 75.0		ohm-m	
Rmf @ Measured Temp	1.58 @ 75.0		ohm-m	
Rmc @ Measured Temp	2.36 @ 75.0		ohm-m	
Source Rmf / Rmc	CALC	CALC		
Rm @ BHT	1.24 @ 122.0		ohm-m	
Time Since Circulation	3.5 HOURS			
Max Recorded Temp	122.00		deg F	
Equipment / Base	13244		LIB	
Recorded By	JEFFREY RANDLE			
Witnessed By	ZACH WIELE			
JOB #	LB14-352			

BOREHOLE RECORD					Last Edited: 10-NOV-2014 19:58
Bit Size inches		Depth From feet		Depth To feet	
7.875		1857.00		5700.00	
CASING RECORD					
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft	
SURFACE	8.625	0.00	1857.00	24.00	

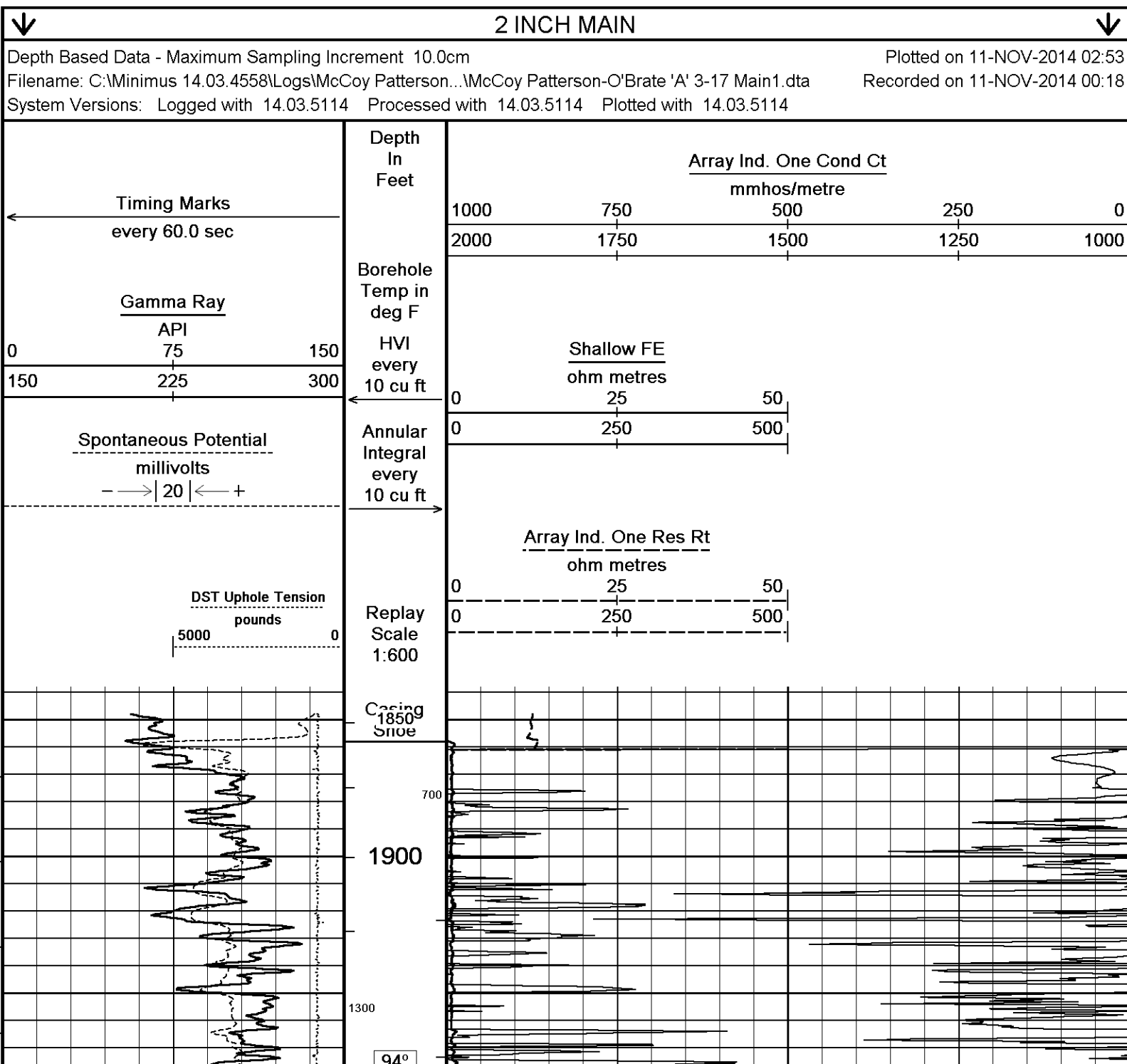
REMARKS
- SOFTWARE ISSUE: WLS 14.03.5114.
- RUN ONE: MCG, MML, MDN, MPD, MFE, MAI RUN IN COMBINATION. - HARDWARE: DUAL BOWSPRING USED ON MDN. 0.5 INCH STANDOFF USED ON MFE. 0.5 INCH STANDOFF USED ON MAI.
- 2.71 G/CC LIMESTONE DENSITY MATRIX USED TO CALCULATE POROSITY.
- BOREHOLE RUGOSITY, TIGHT PULLS, AND WASHOUTS WILL AFFECT DATA QUALITY.
- ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.
- TOTAL HOLE VOLUME FROM TD TO SURFACE CASING: 1337 CU.FT.
- ANNULAR HOLE VOLUME WITH 5.5 INCH PRODUCTION CASING FROM TD TO 4000 FEET: 279 CU.FT.
- RIG: STERLING #2

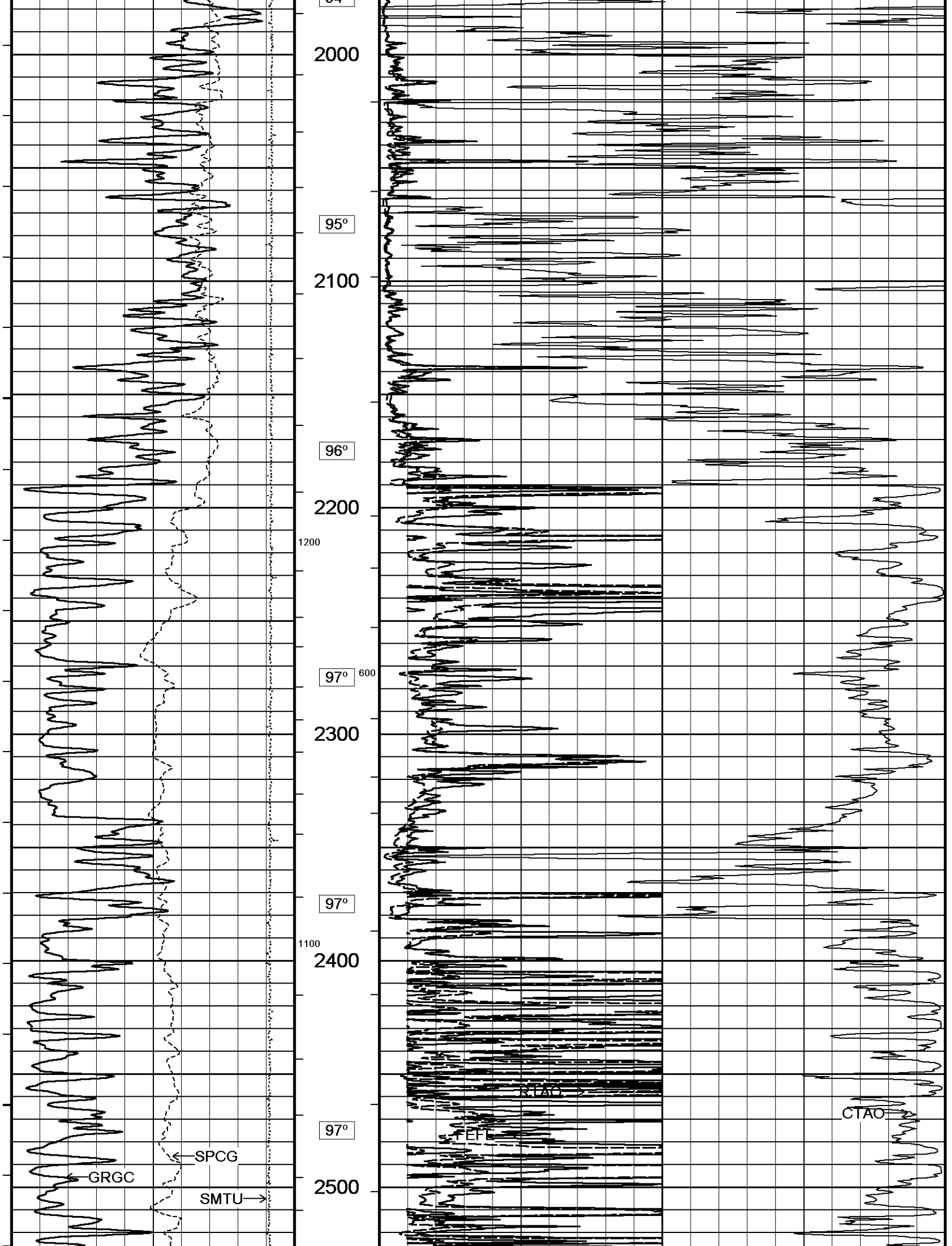
RIS: OPERING #2.

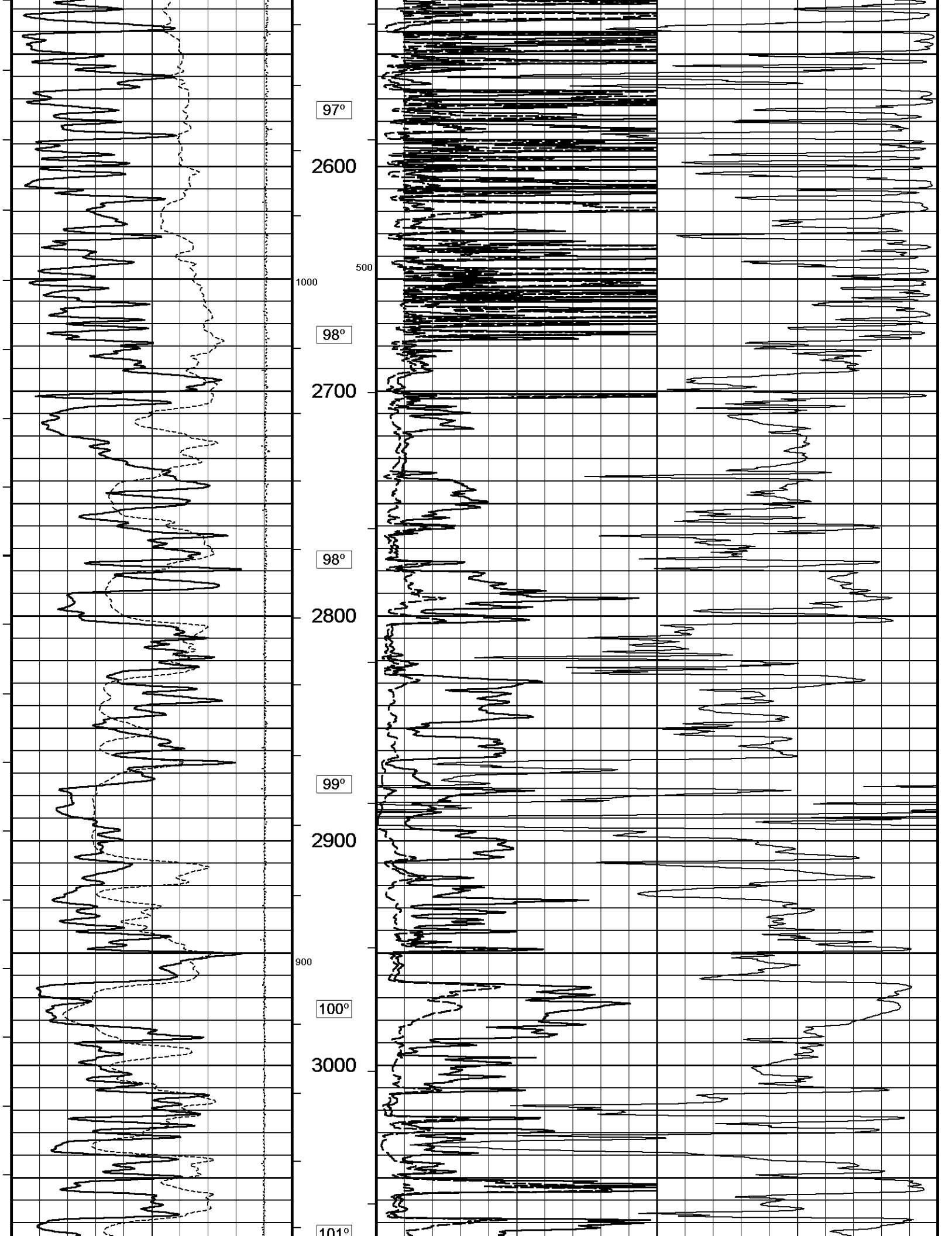
- ENGINEER: J. RANDLE.

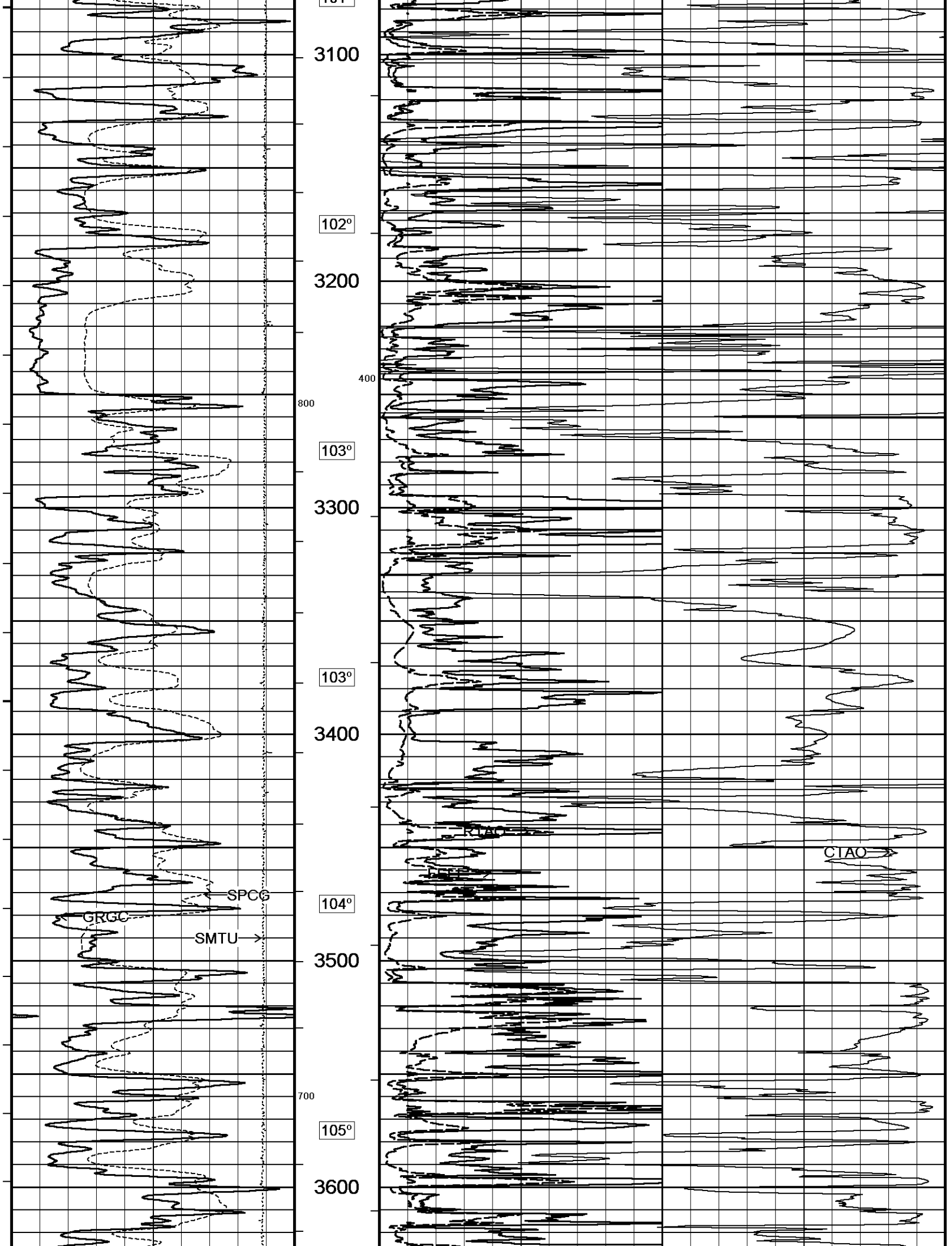
- OPERATOR: J. LaPOINT.

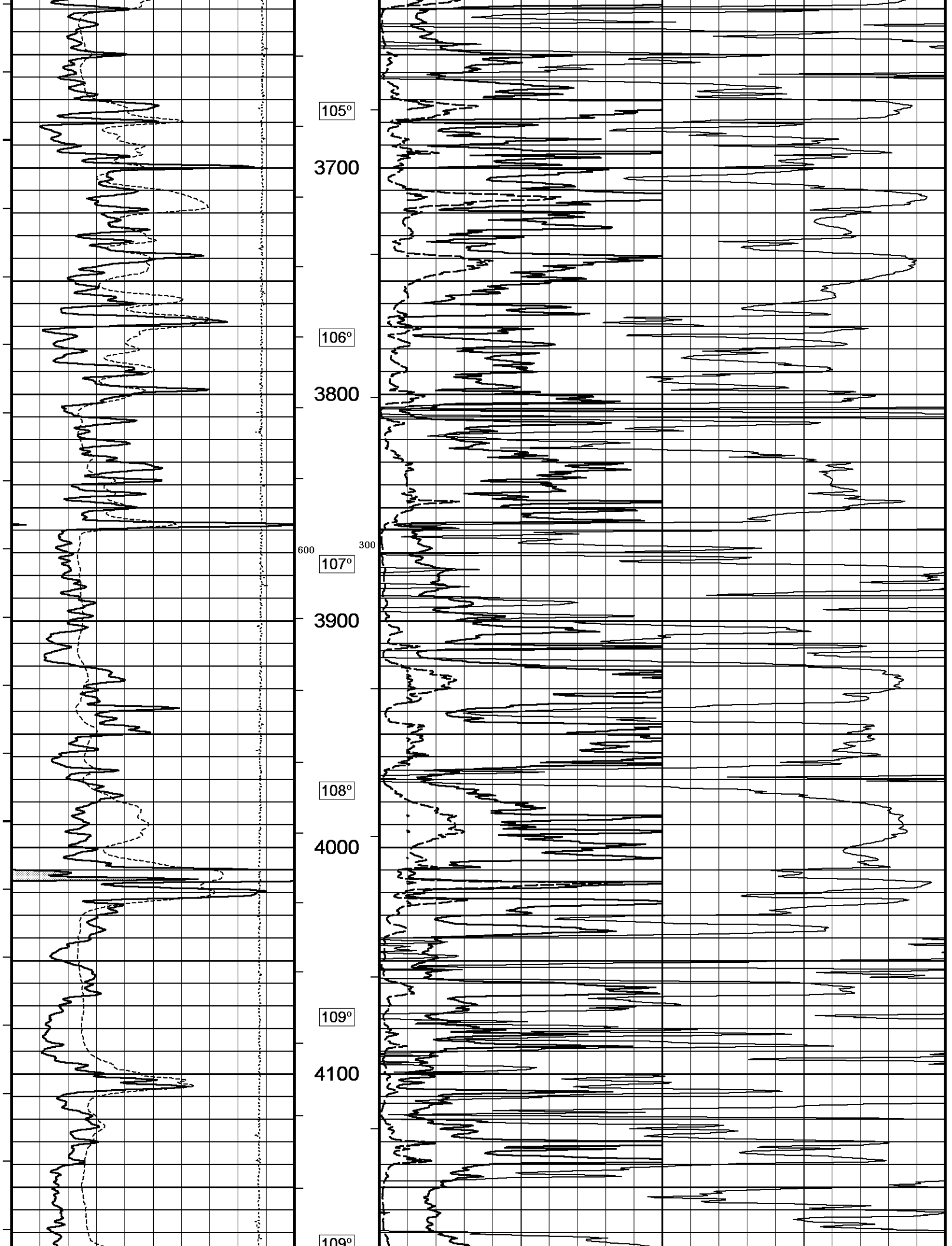
In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will 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.

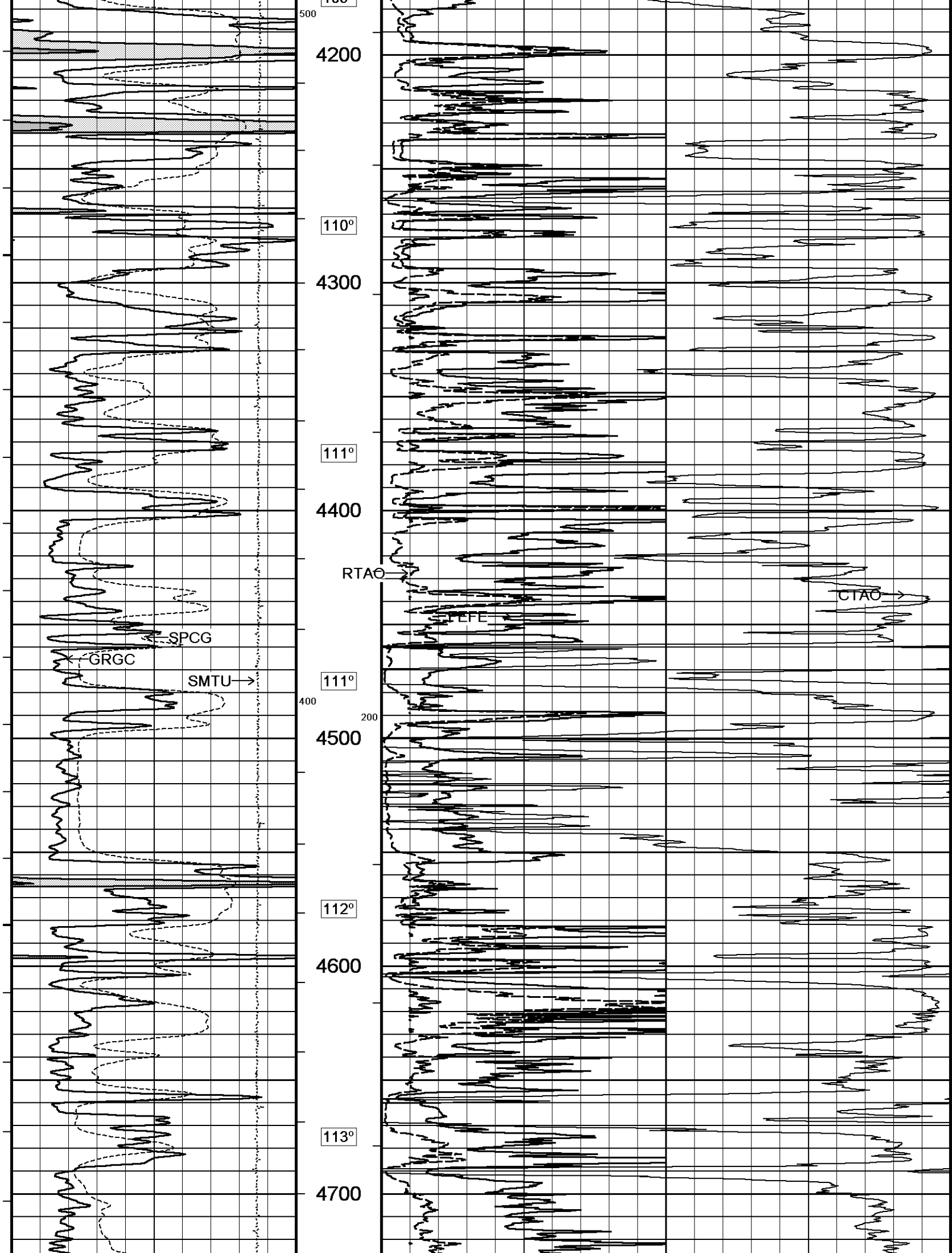


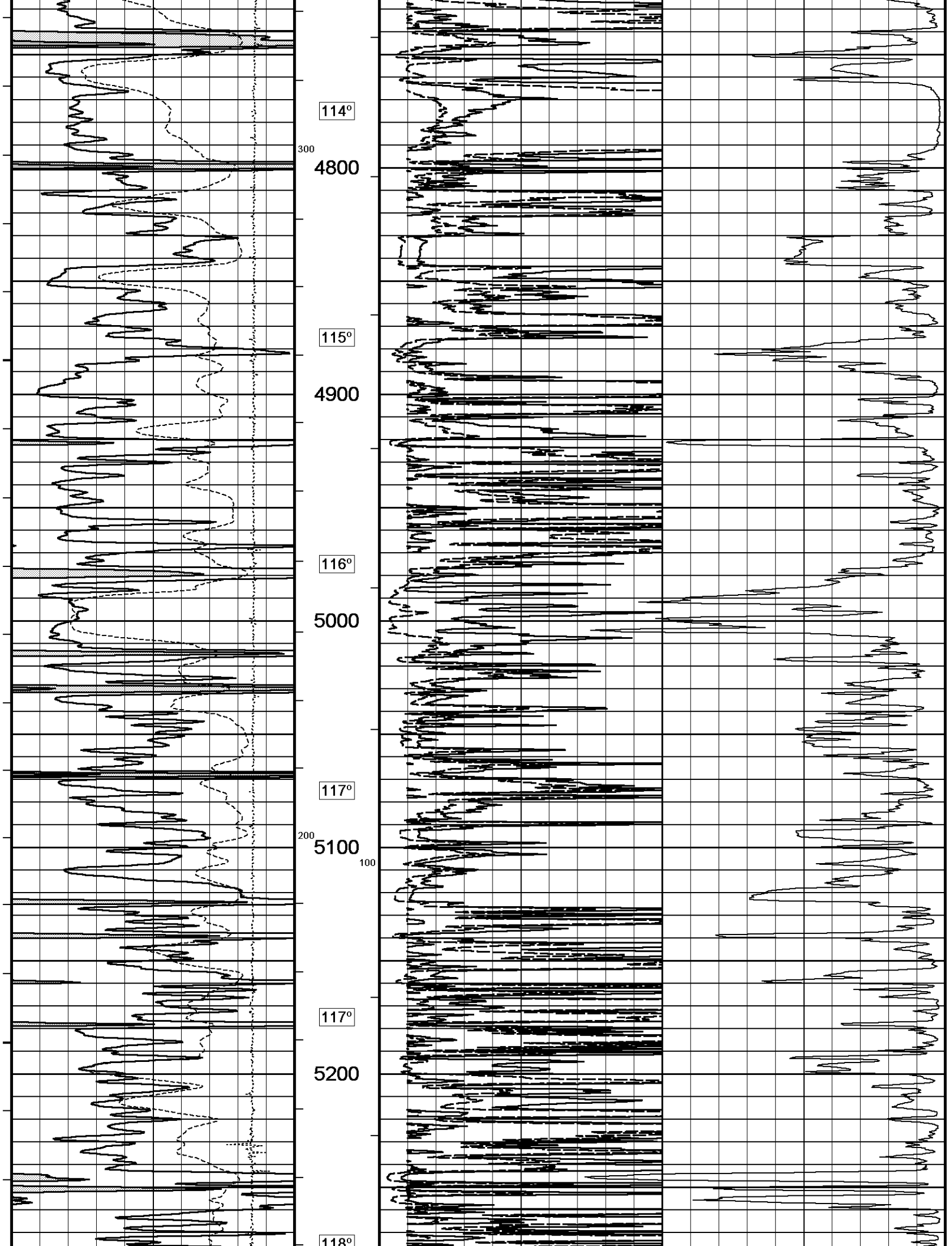


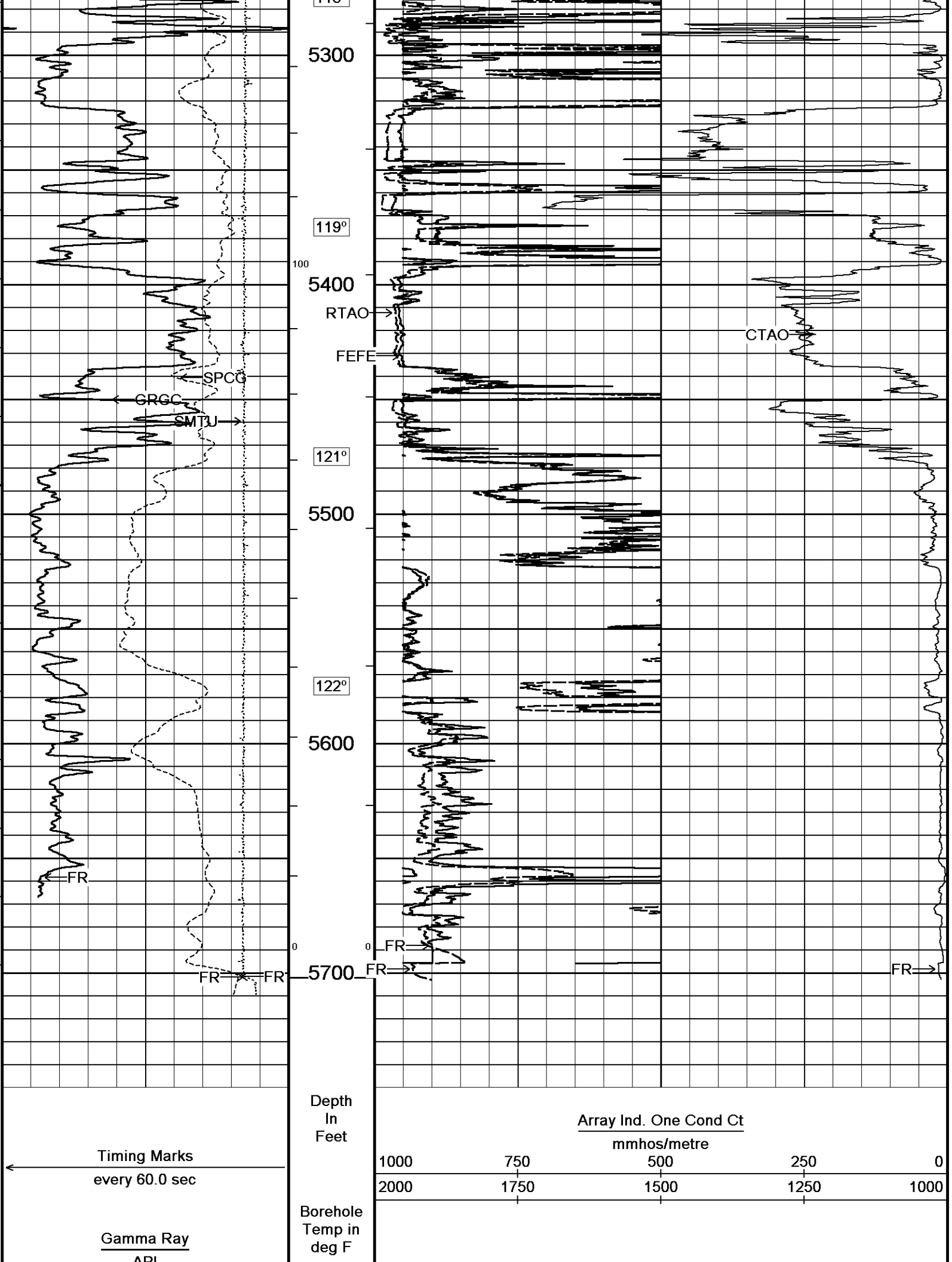


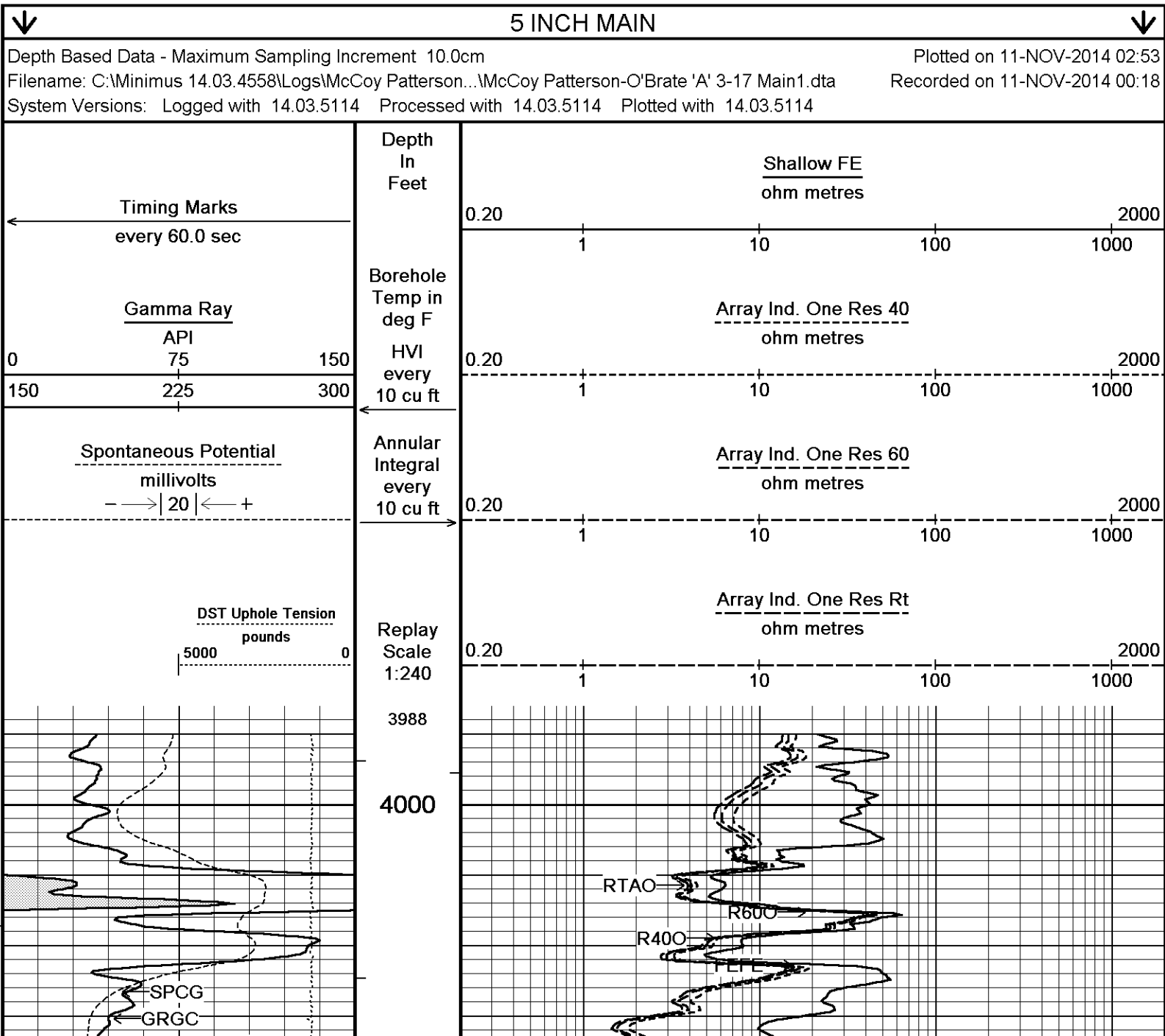
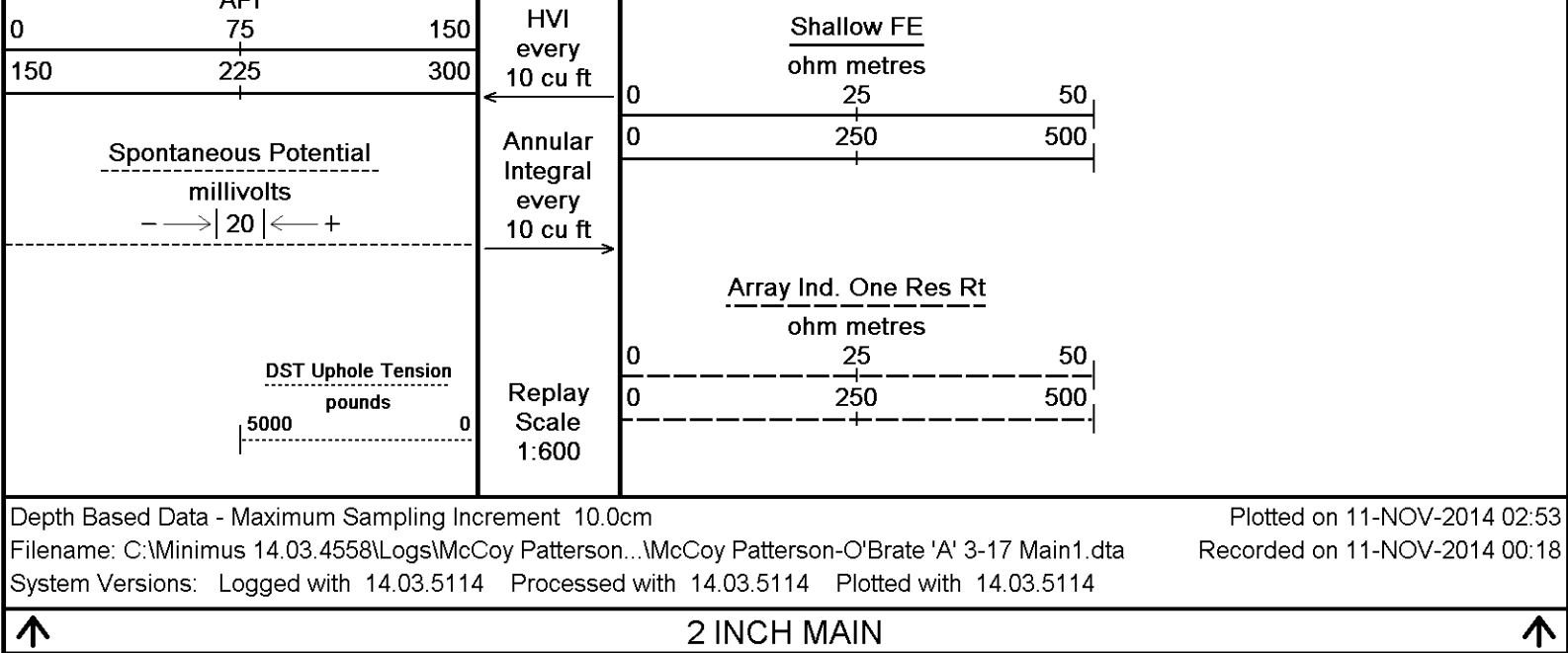


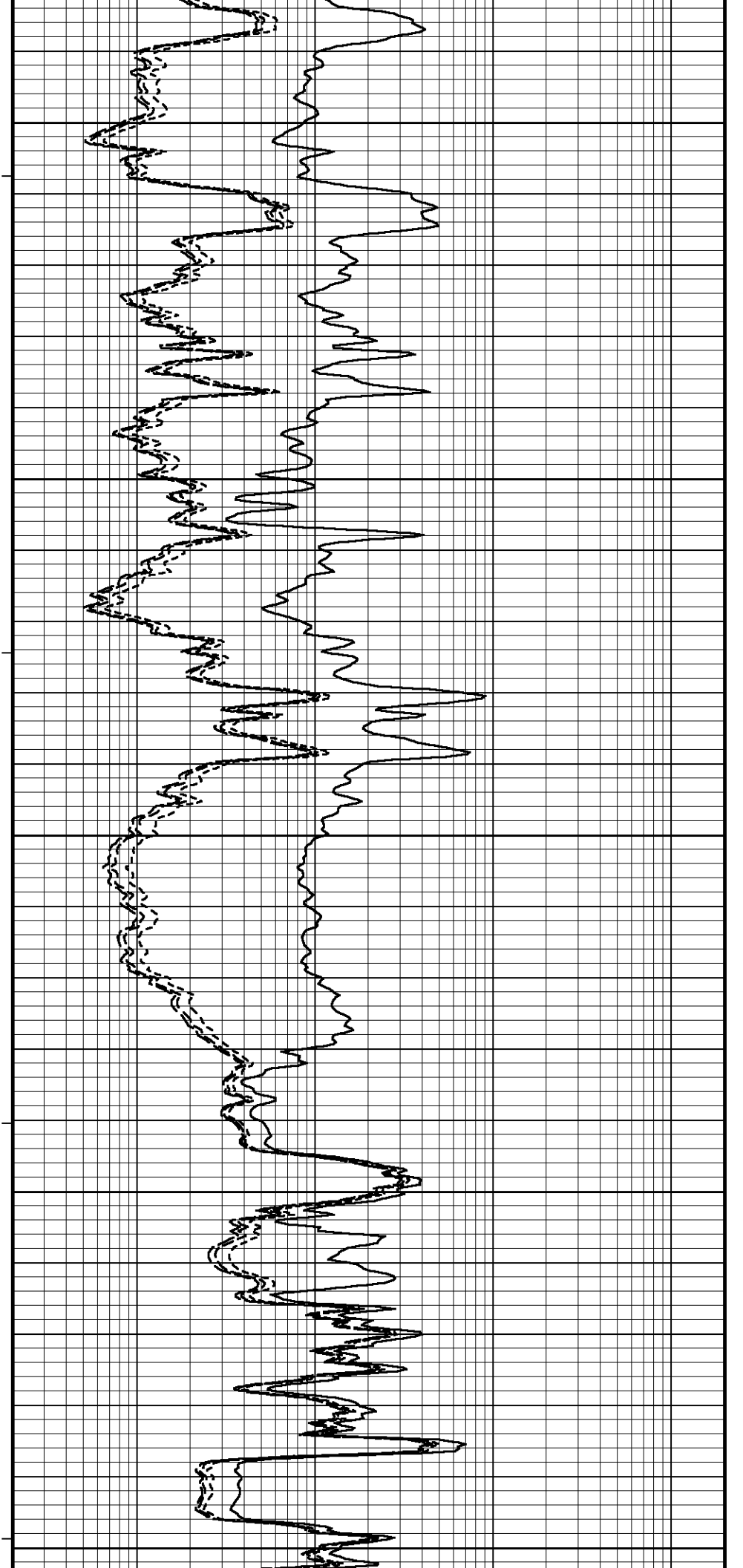
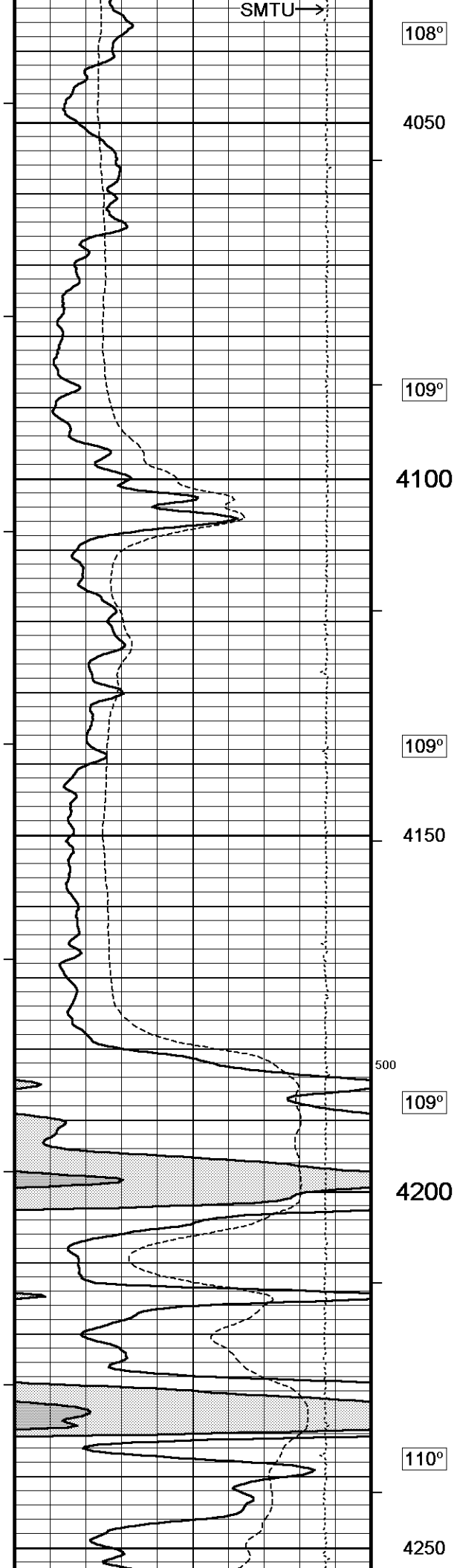


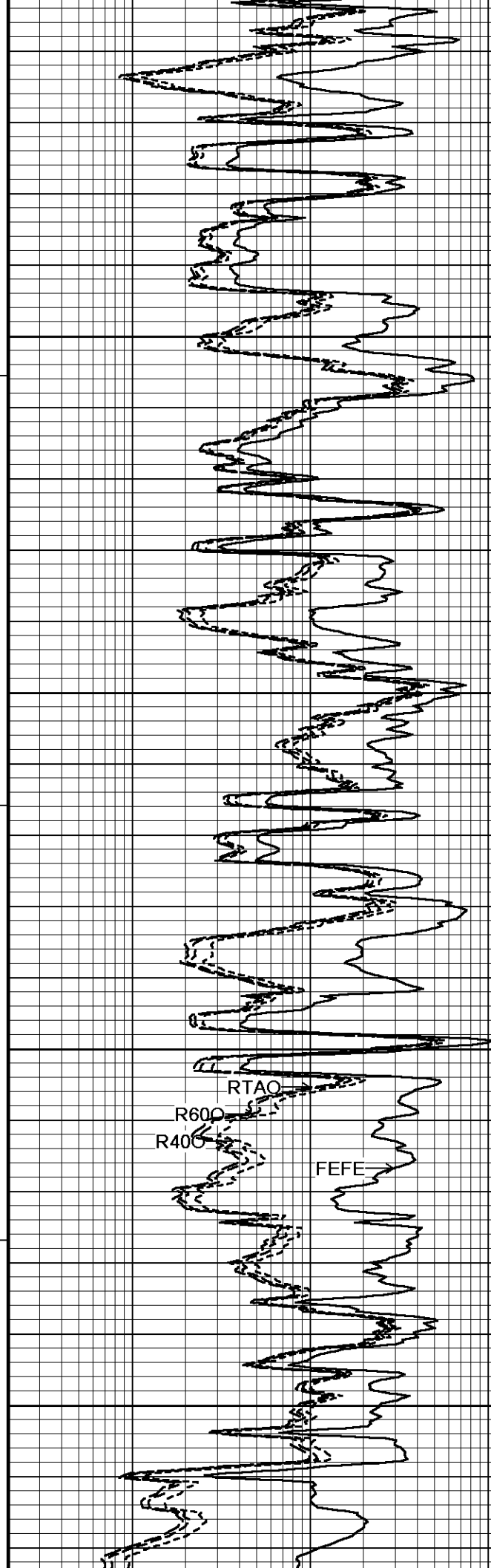
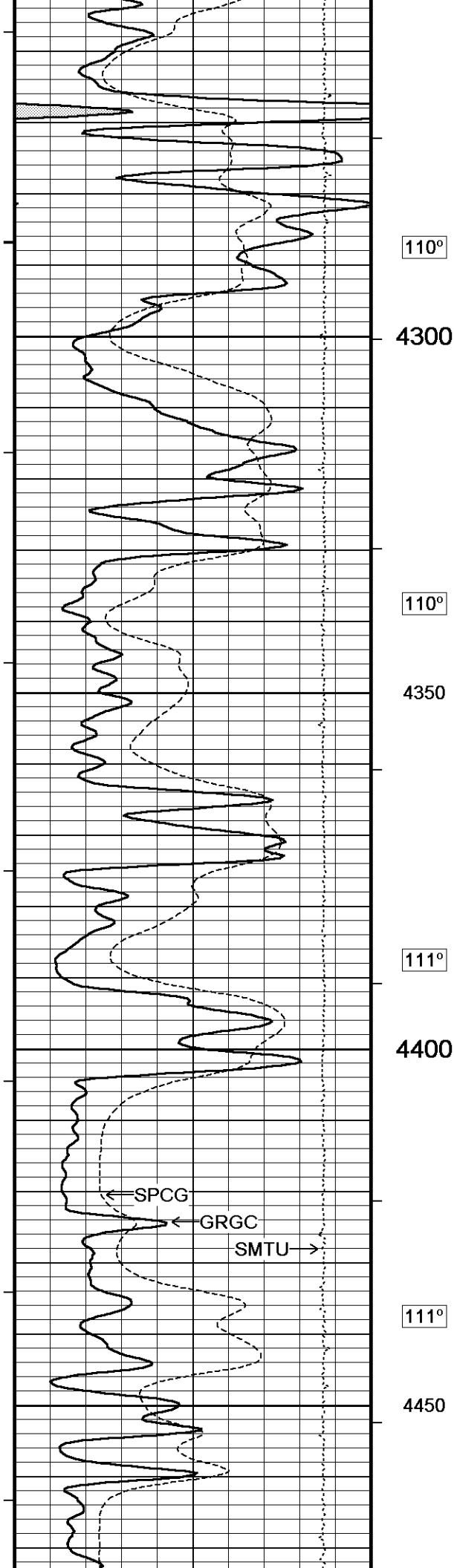


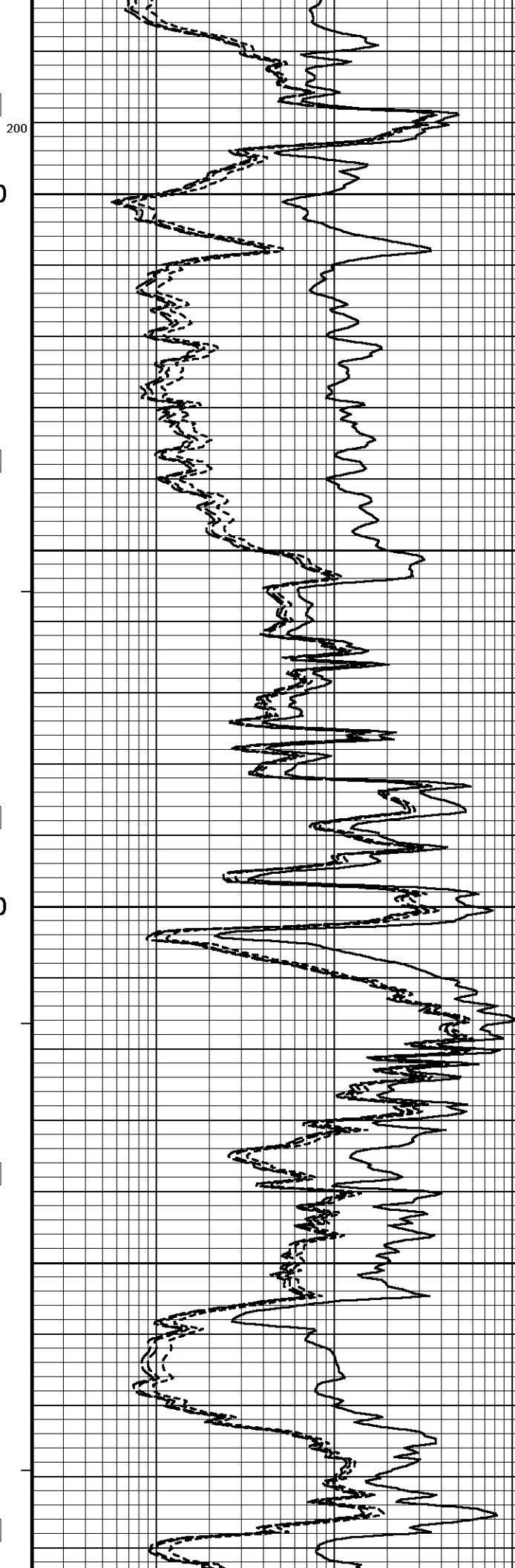
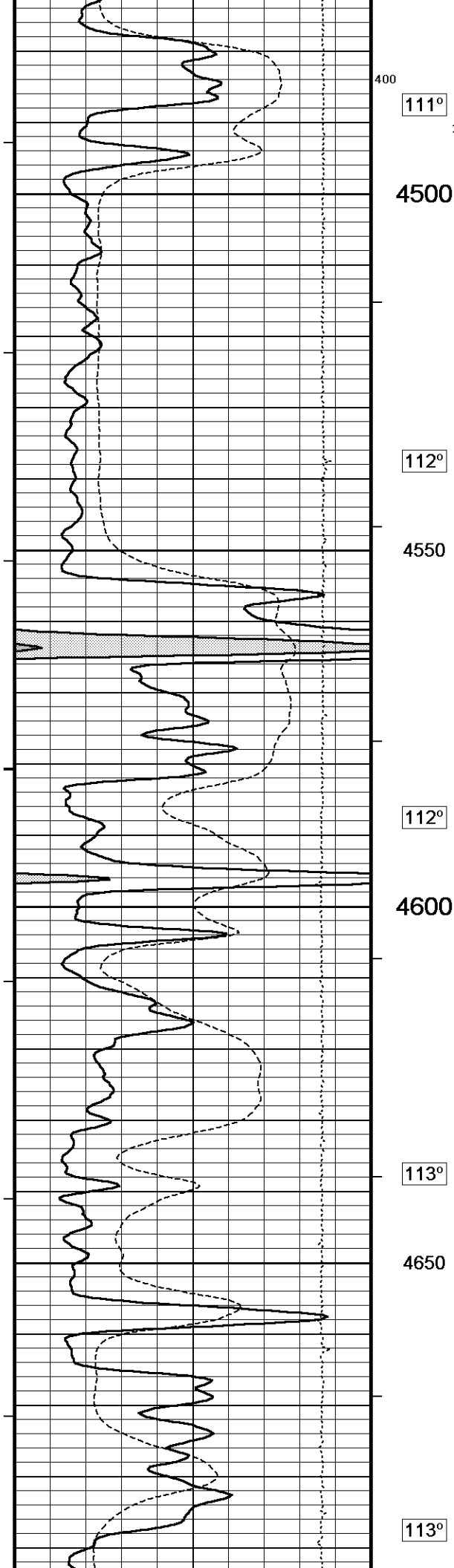


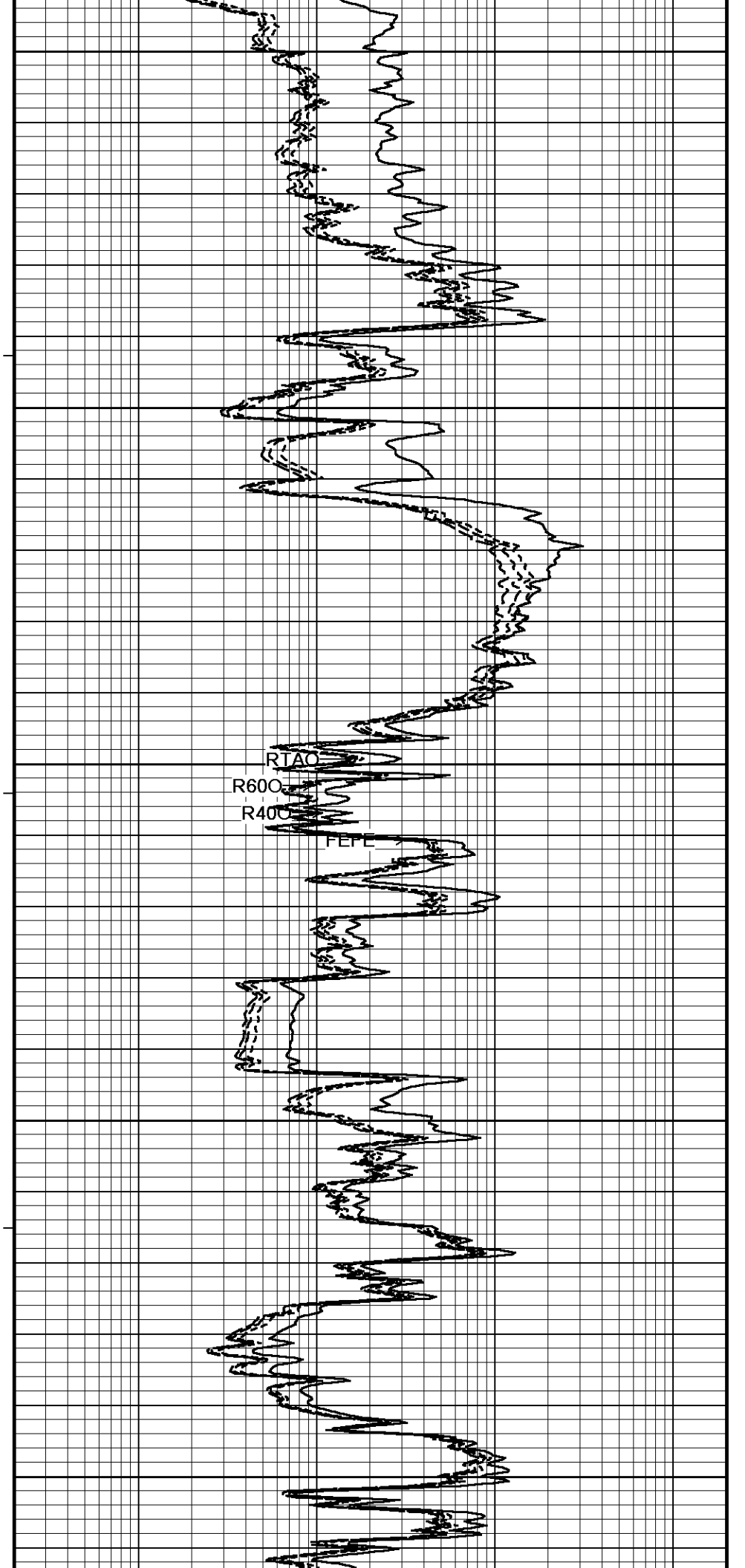
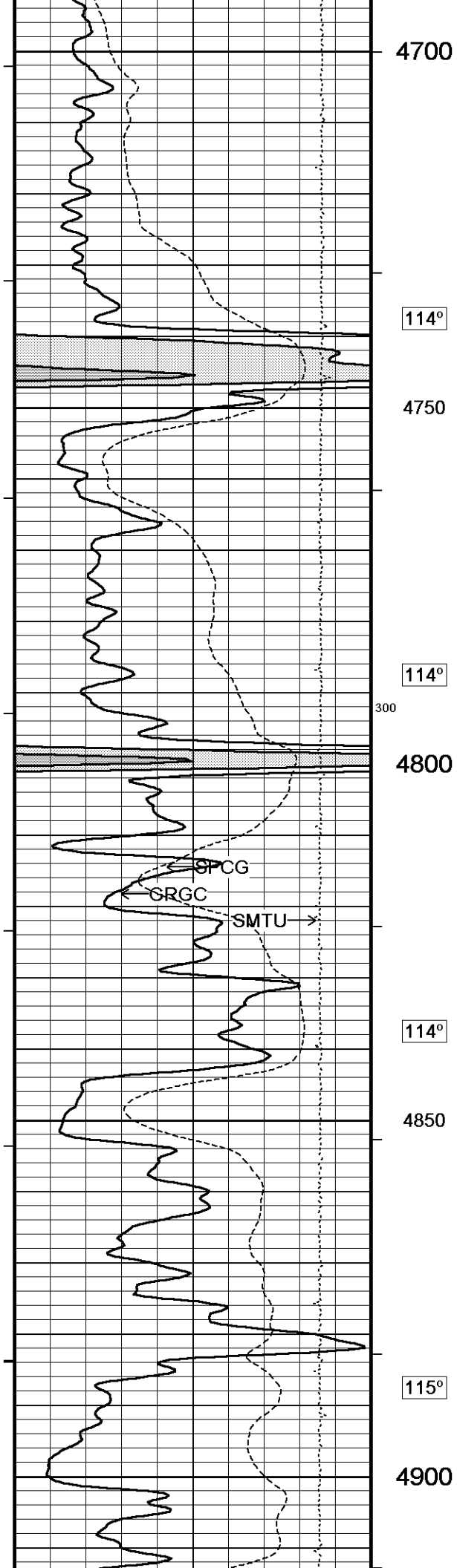


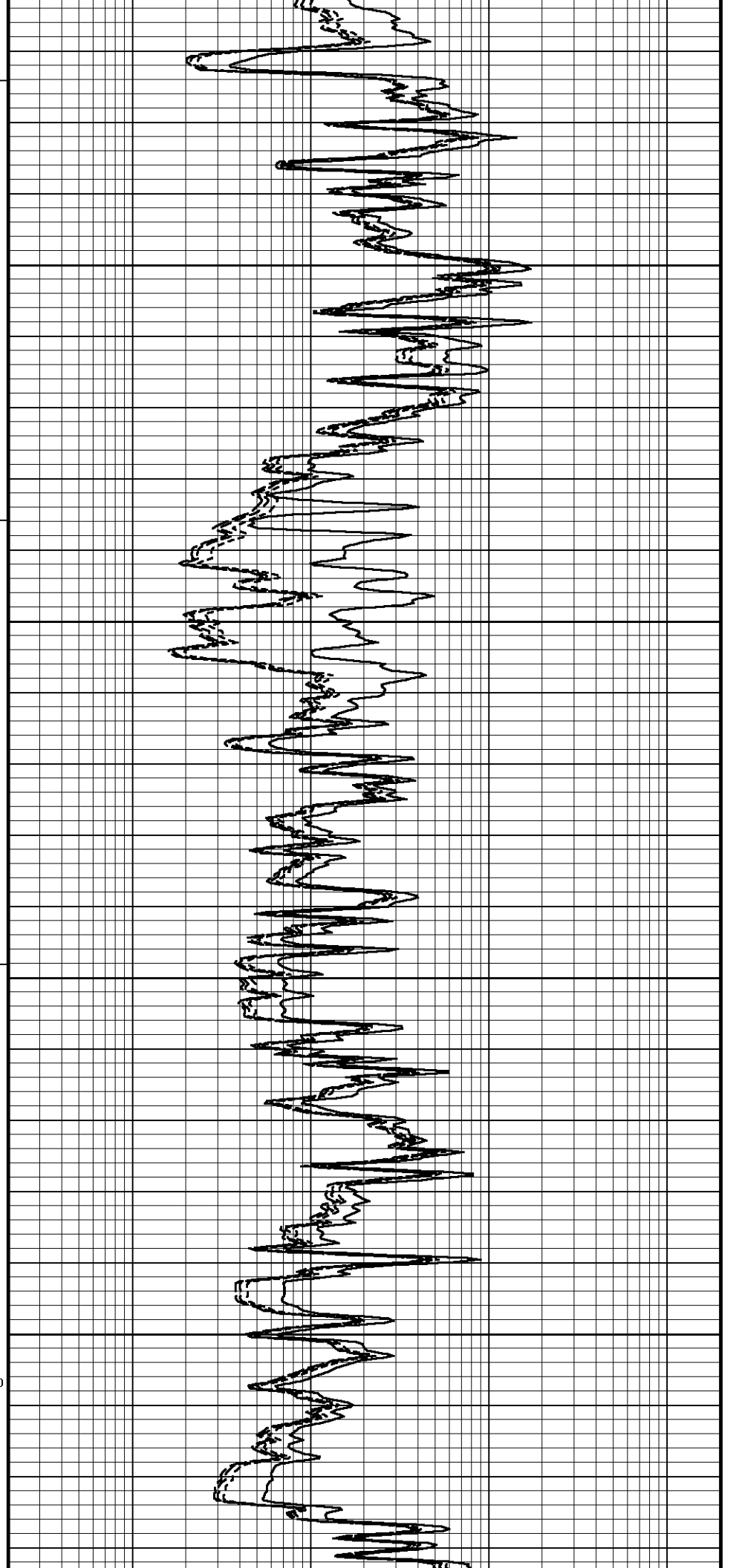
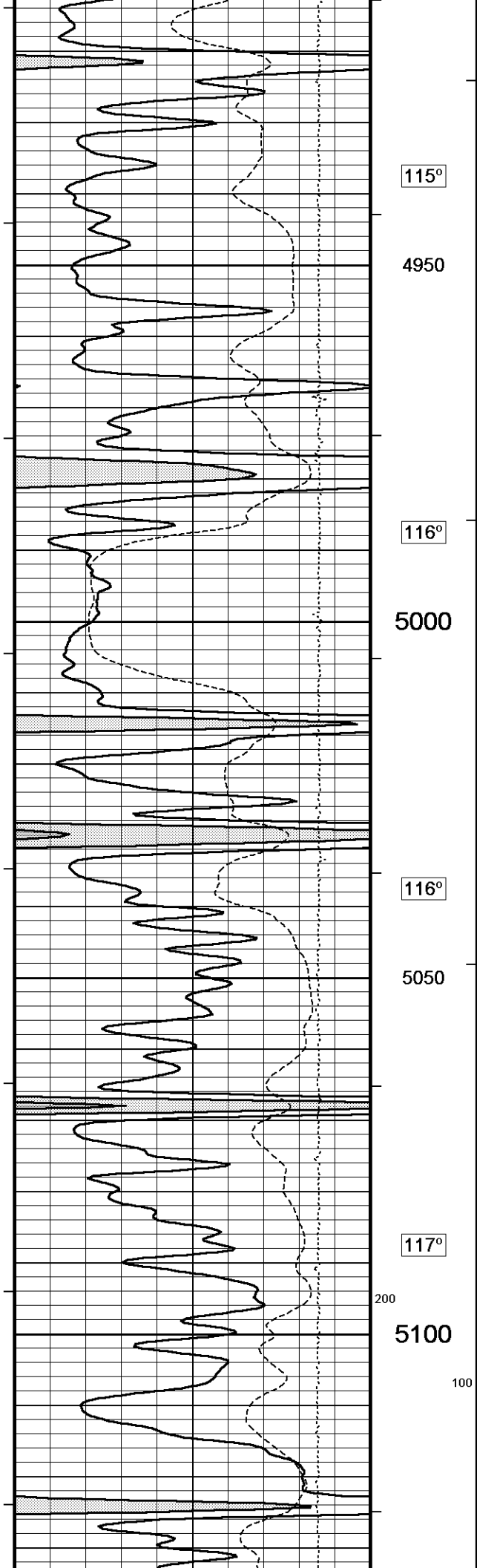


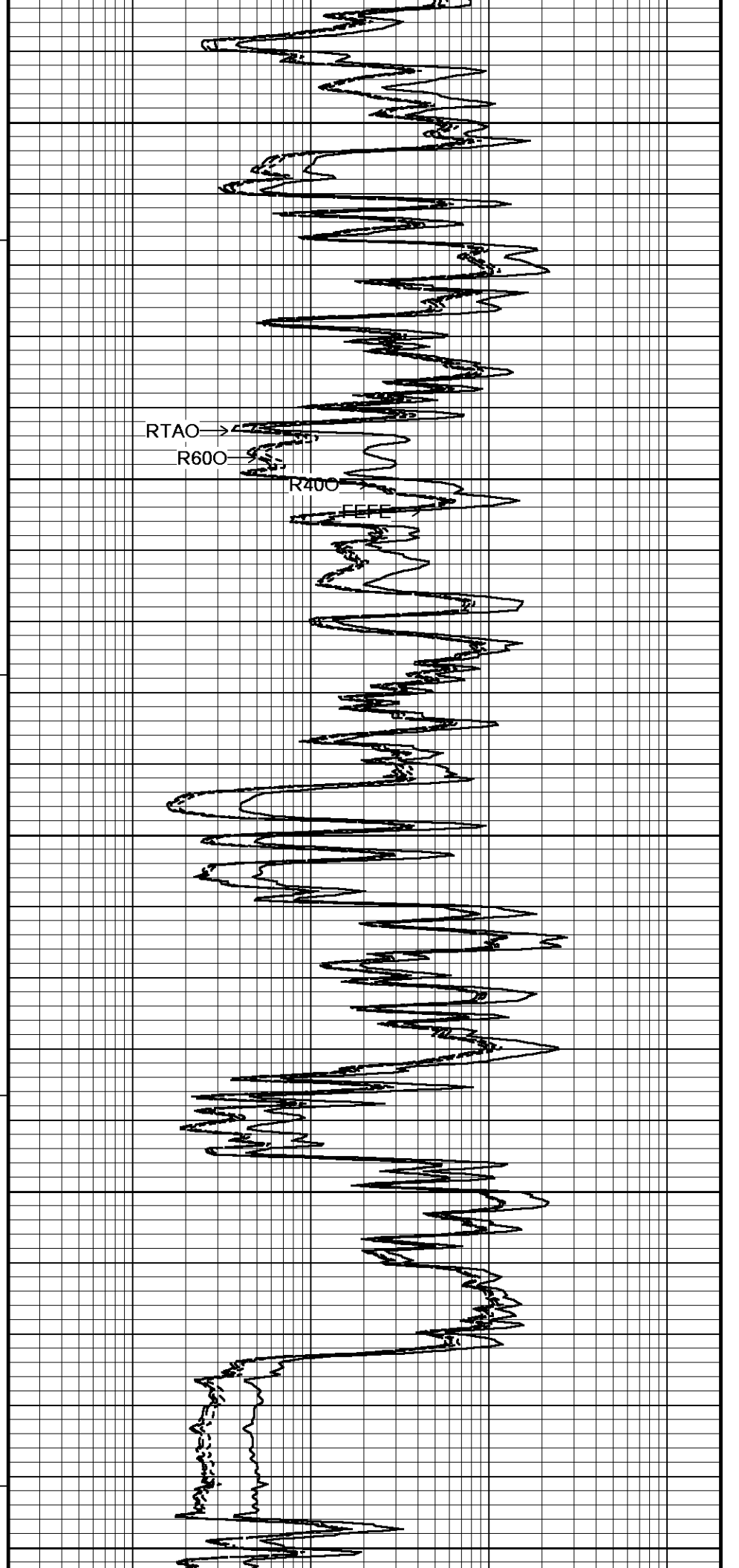
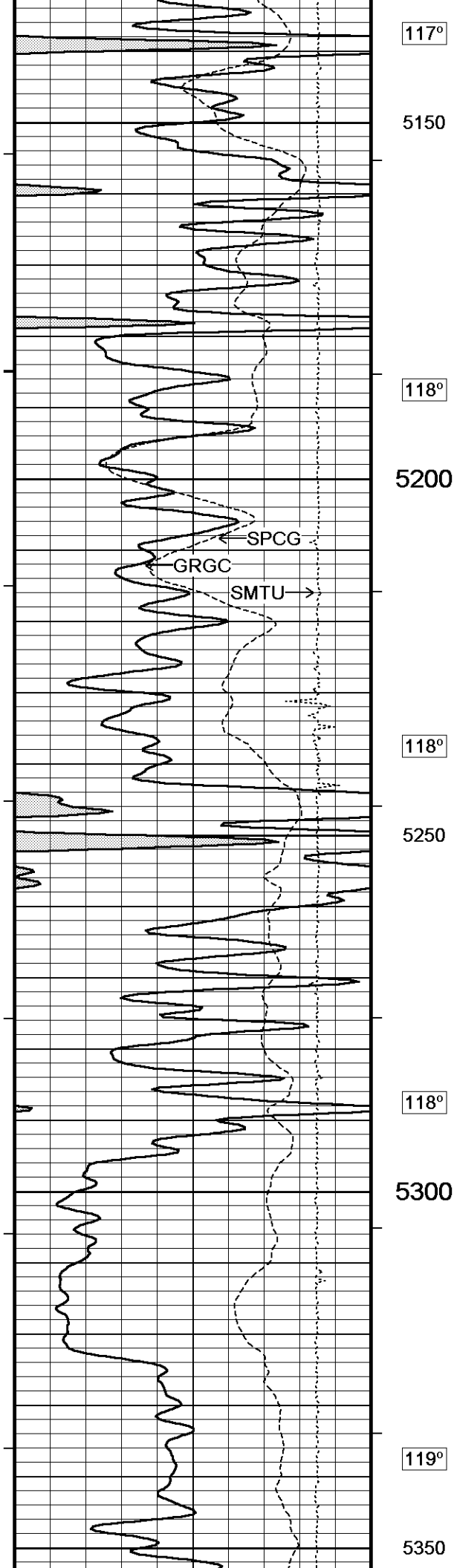


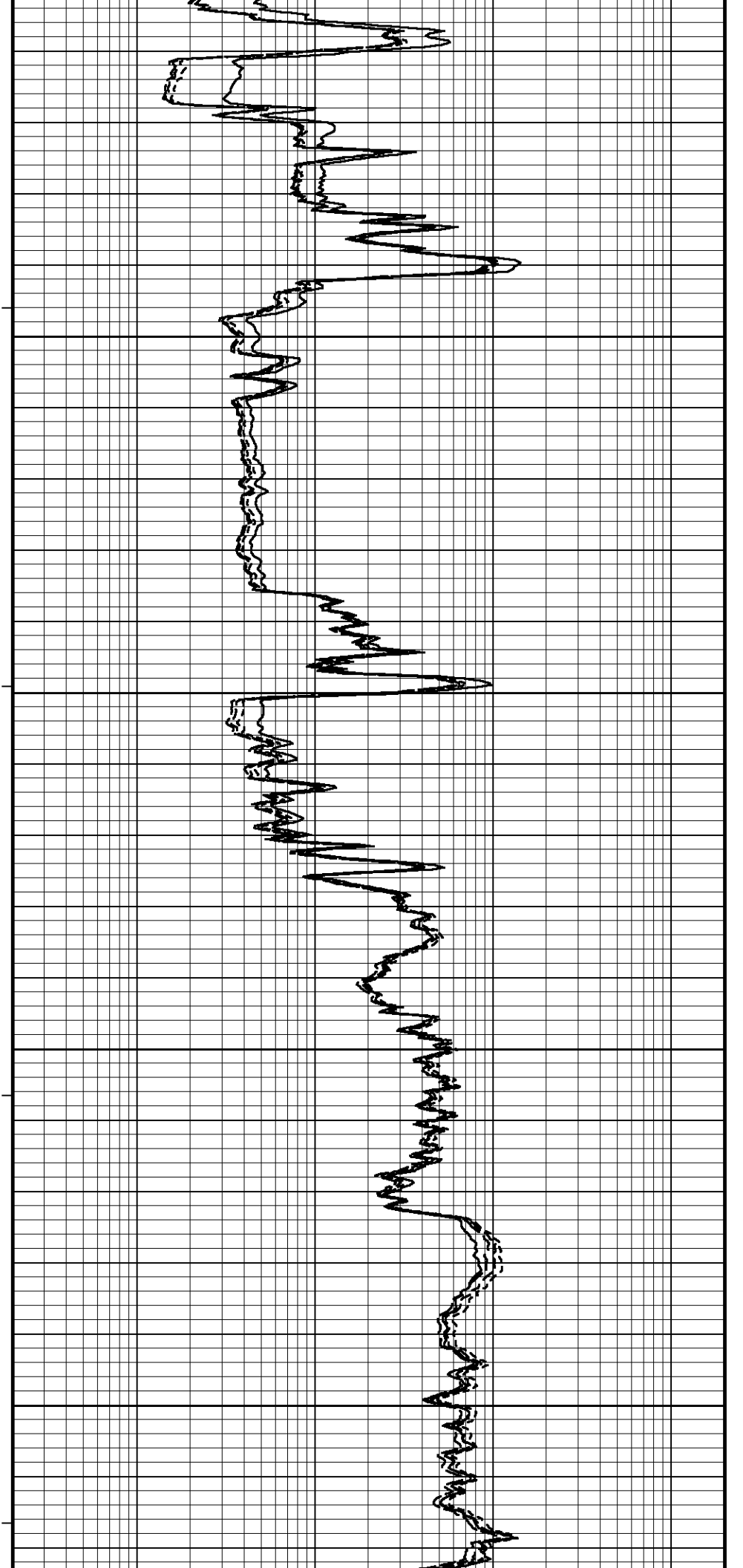
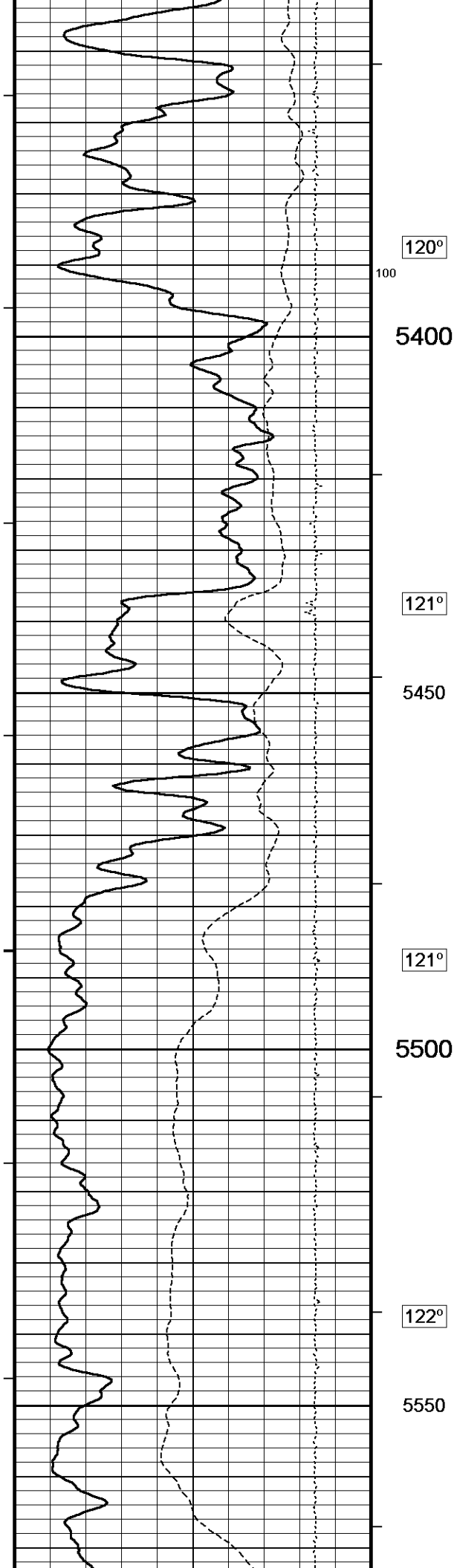


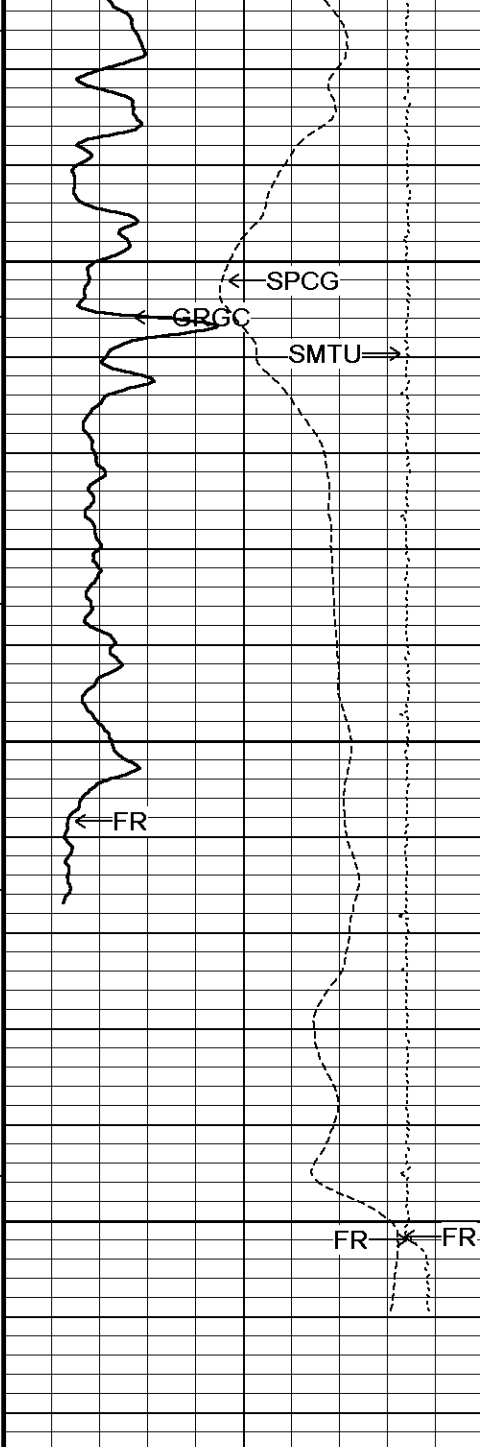












122°

5600

122°

5650

5700

Depth
In
Feet

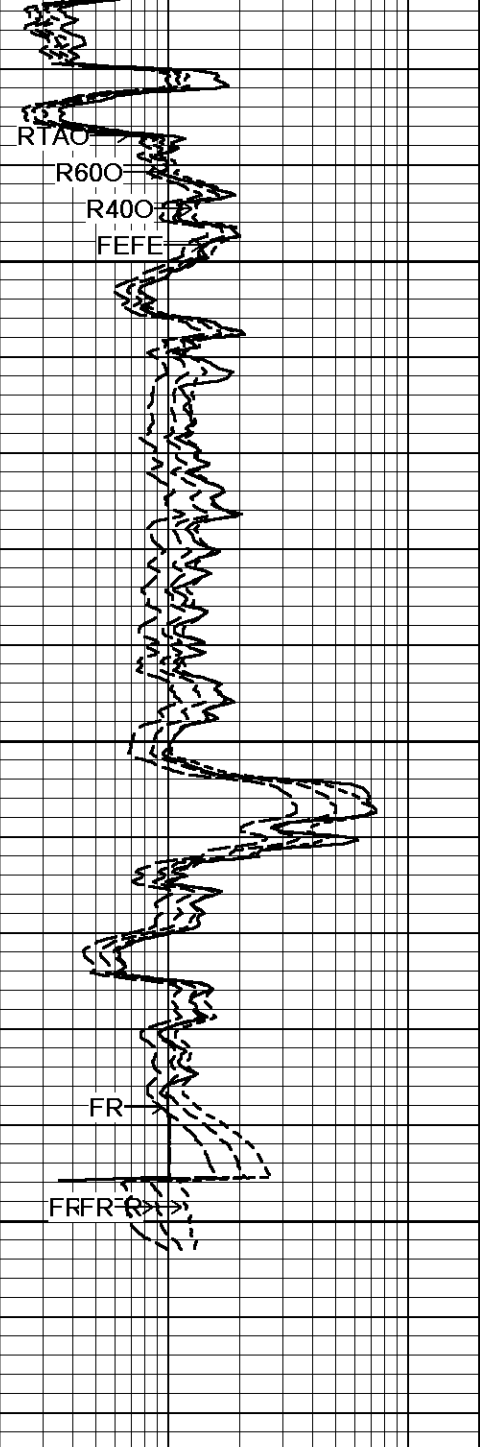
Timing Marks
every 60.0 sec

Gamma Ray
API
0 75 150
150 225 300

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

Borehole
Temp in
deg F
HVI
every
10 cu ft

Annular
Integral
every
10 cu ft



RTAO

R600

R400

FEFE

FR

FRFR

Shallow FE
ohm metres

0.20 1 10 100 1000 2000

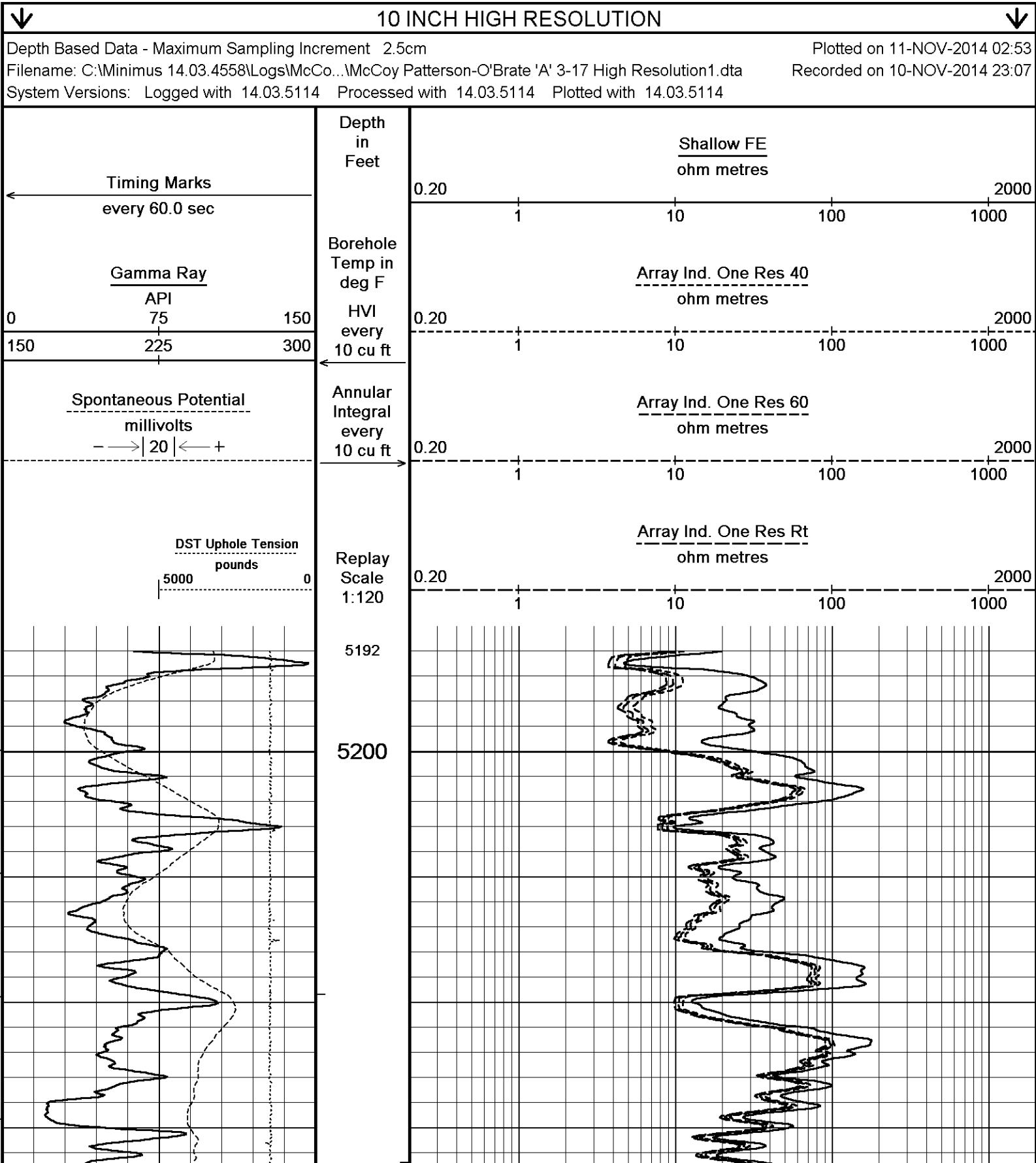
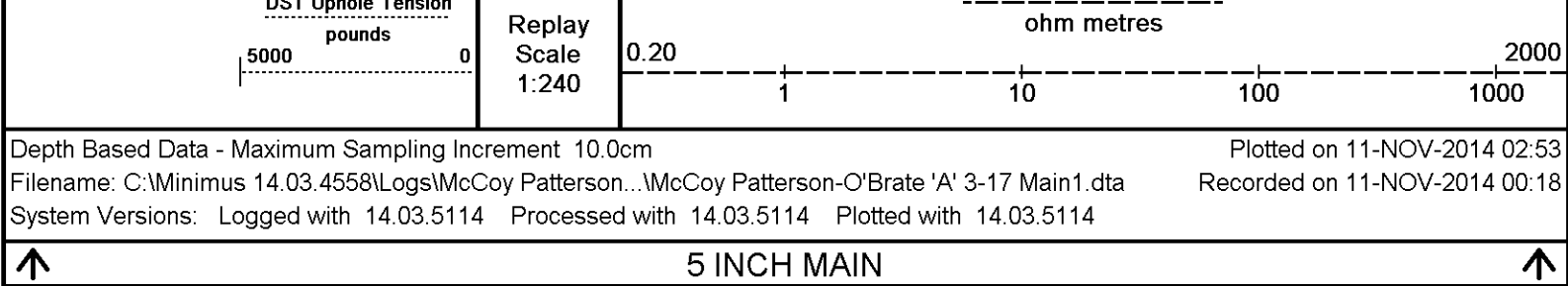
Array Ind. One Res 40
ohm metres

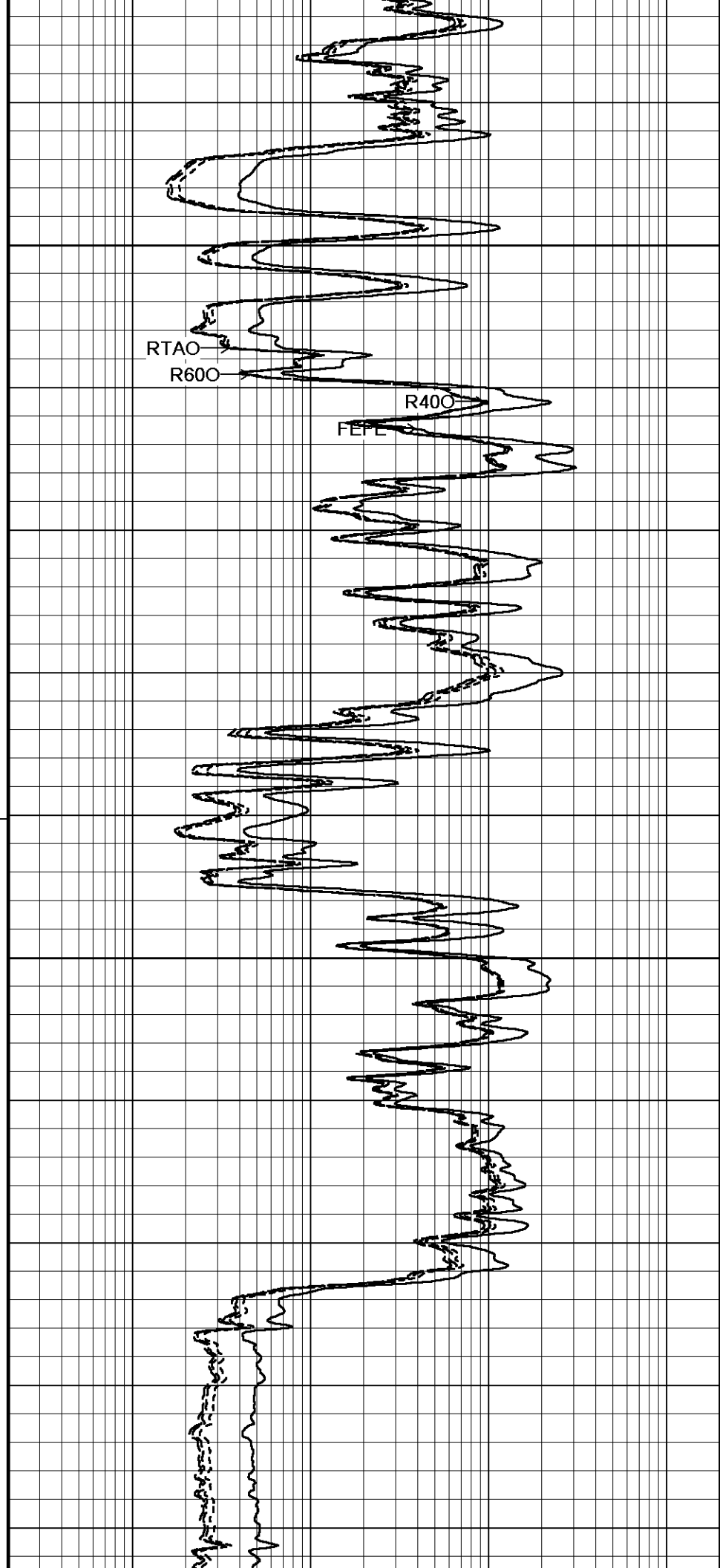
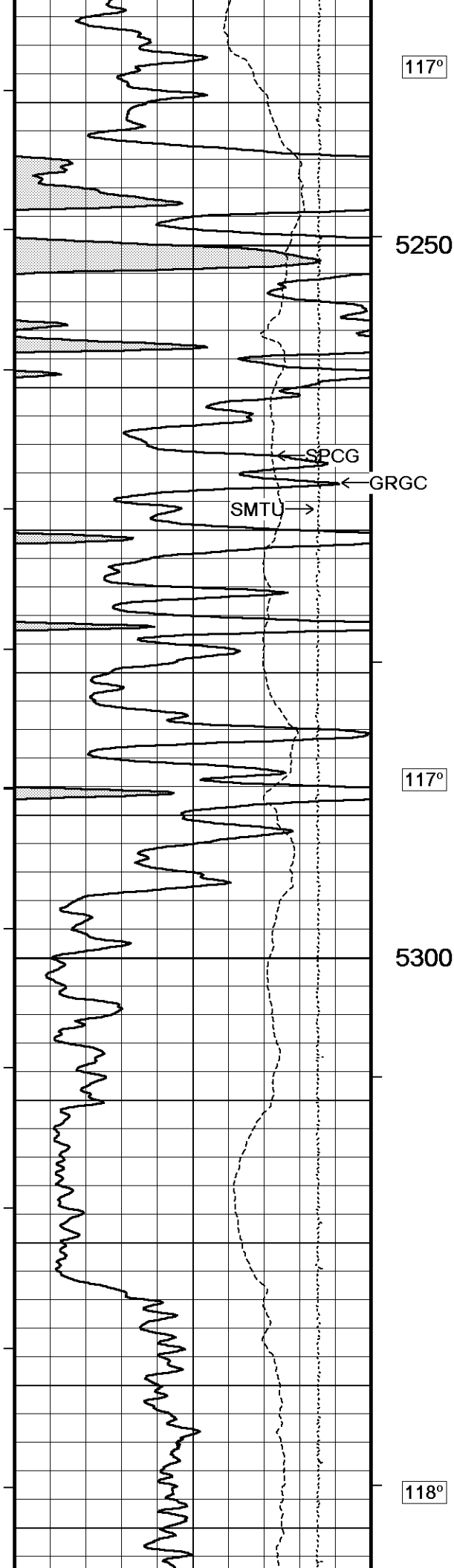
0.20 1 10 100 1000 2000

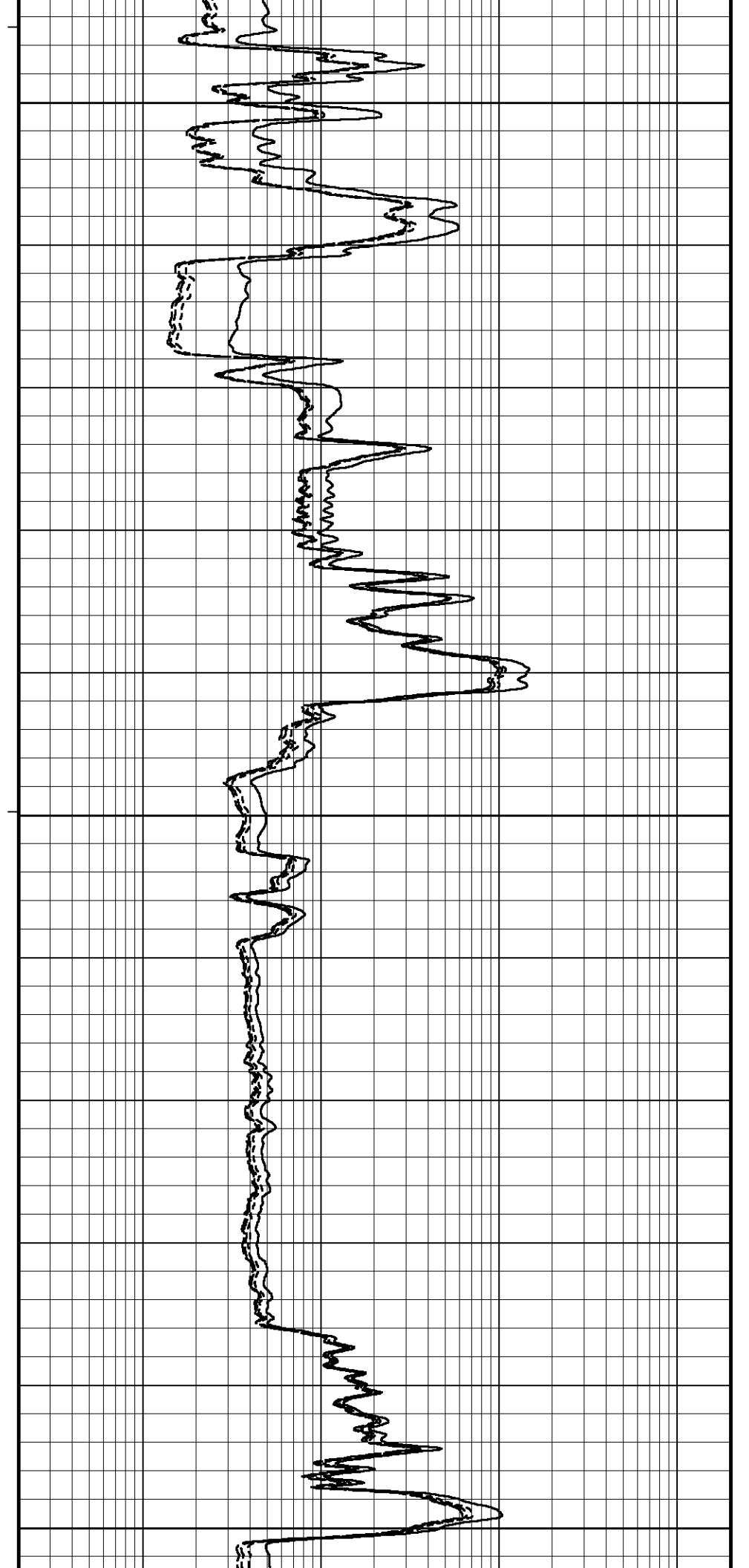
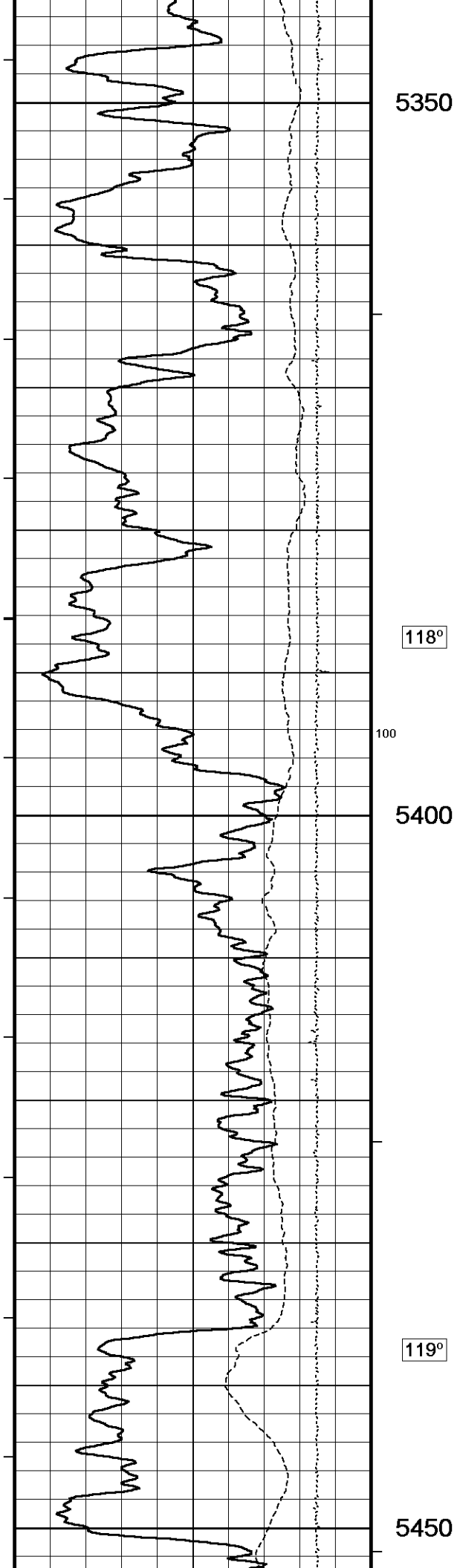
Array Ind. One Res 60
ohm metres

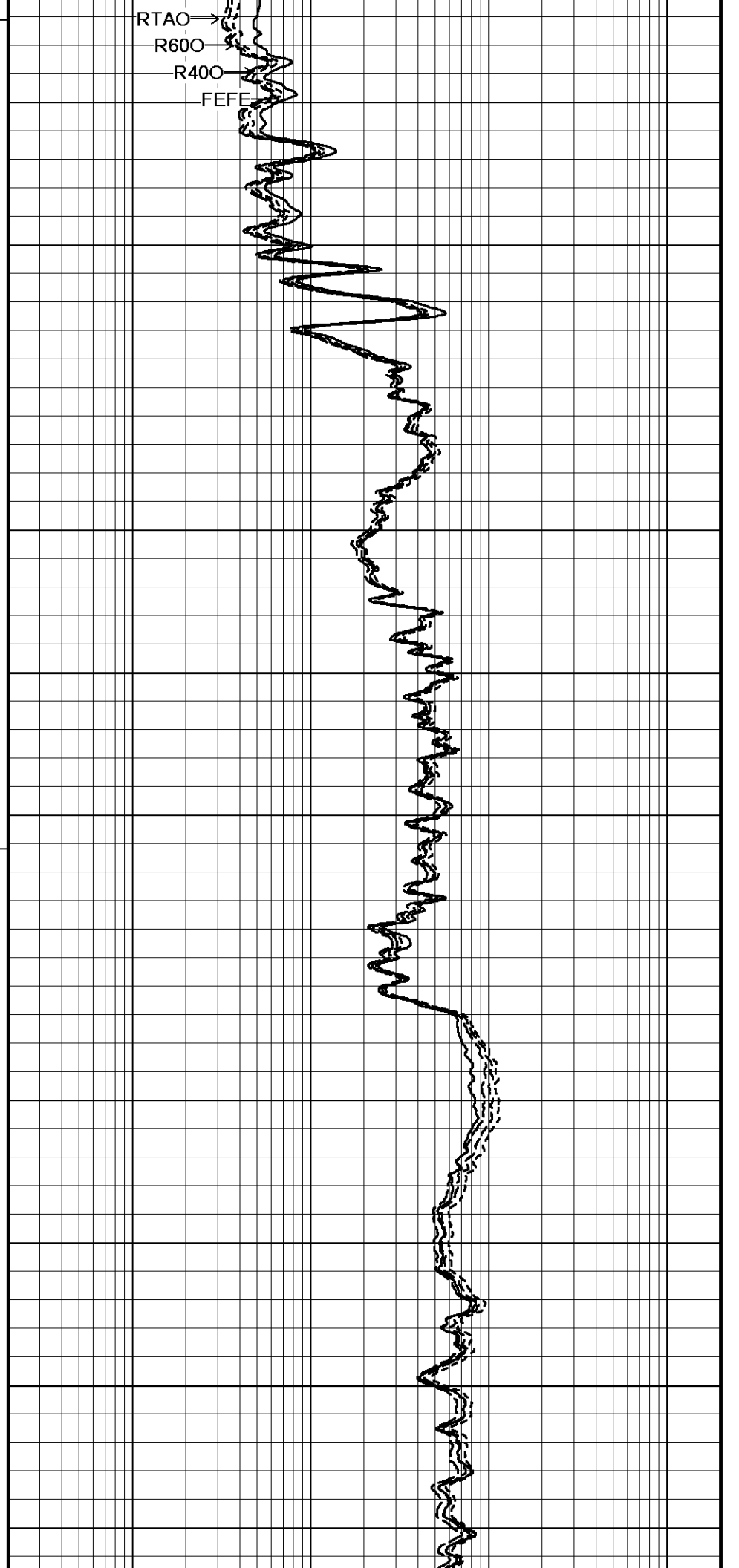
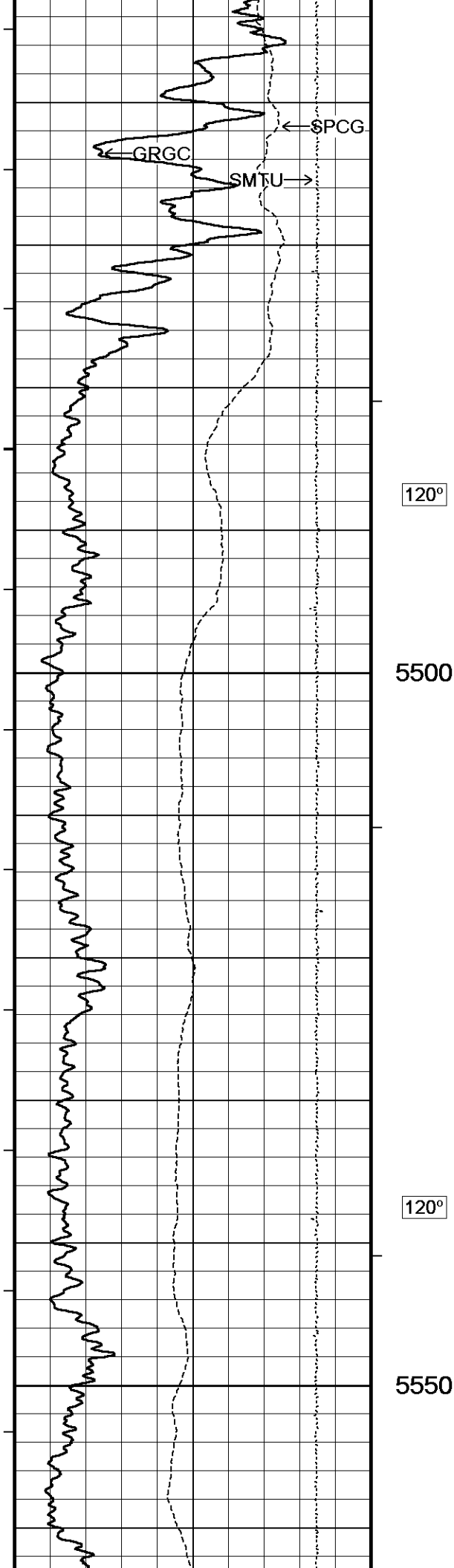
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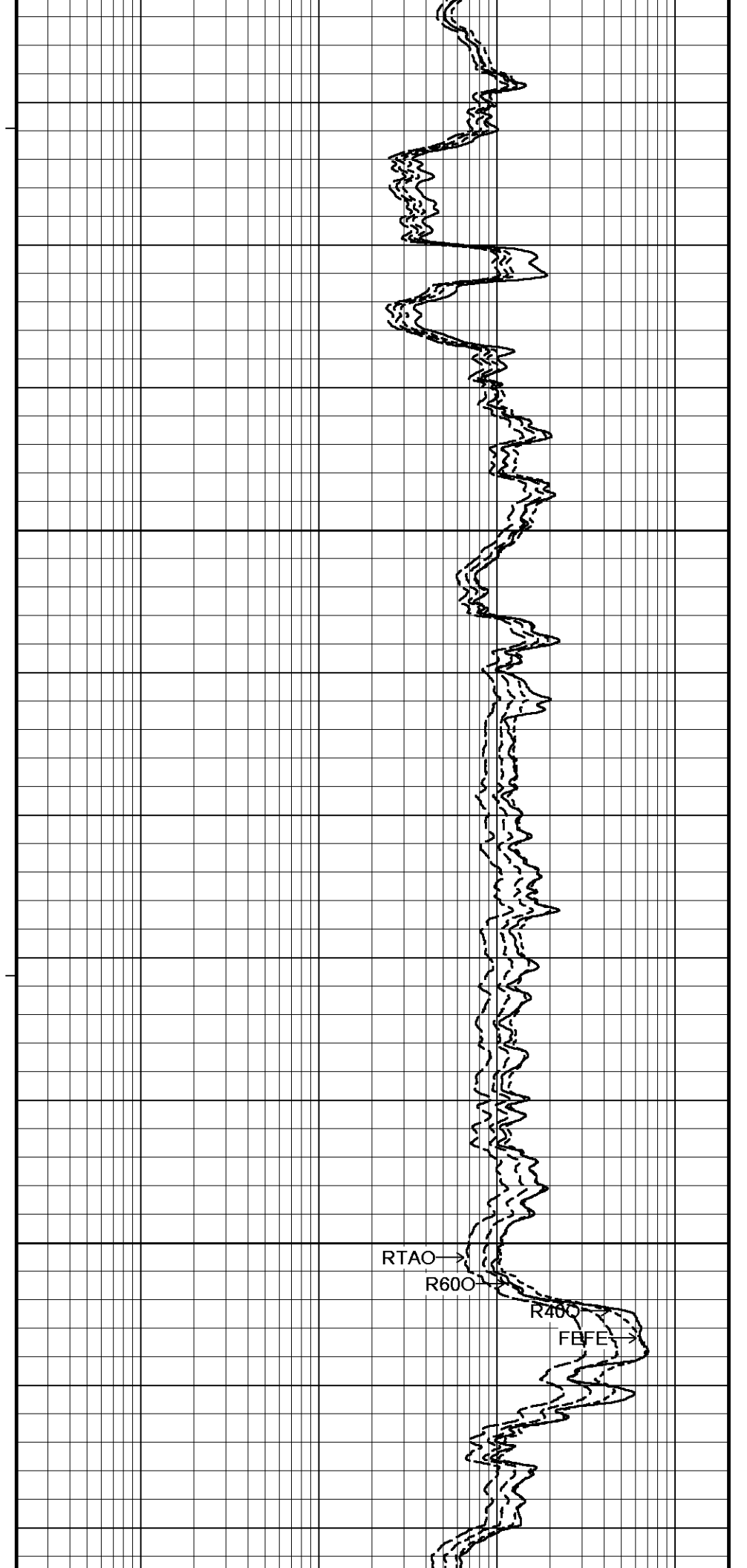
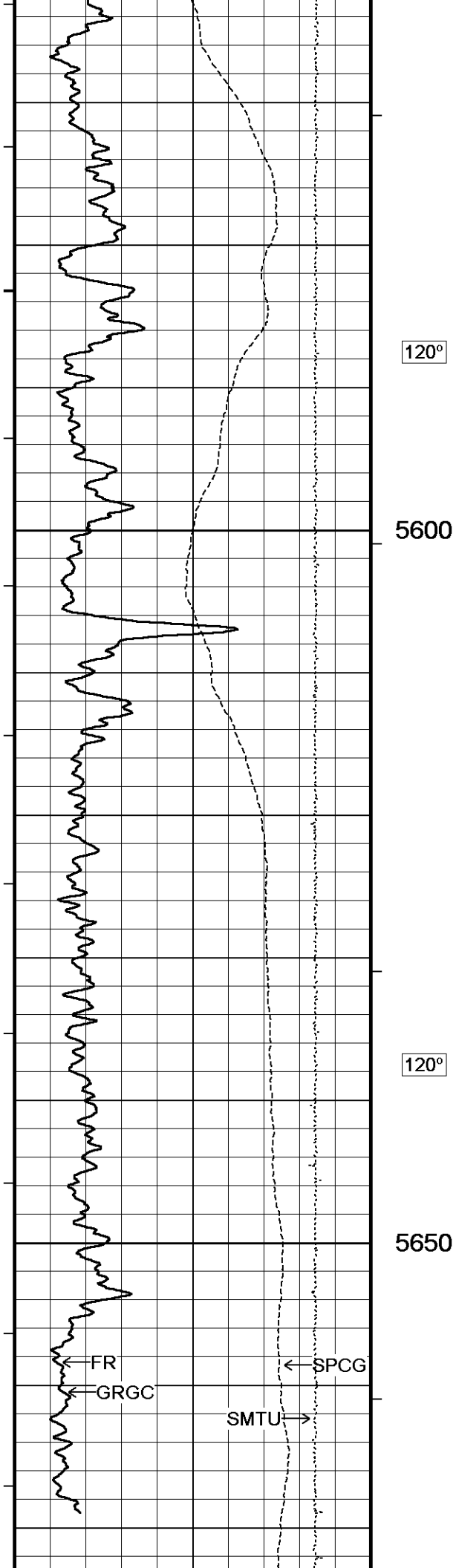
Array Ind. One Res Rt

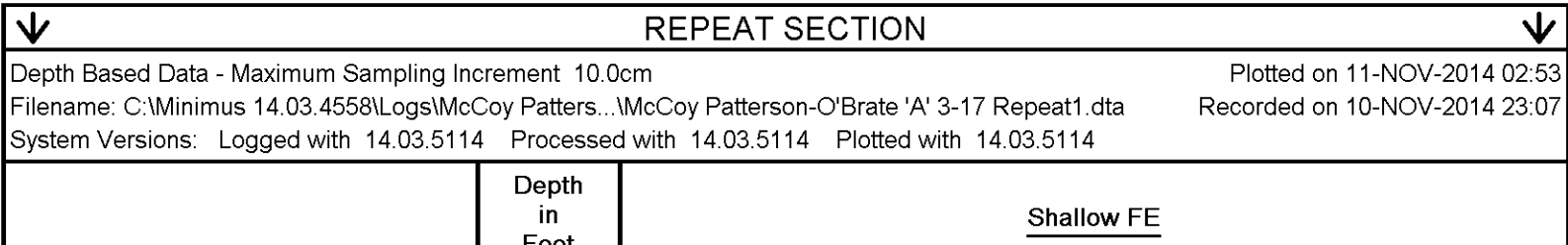
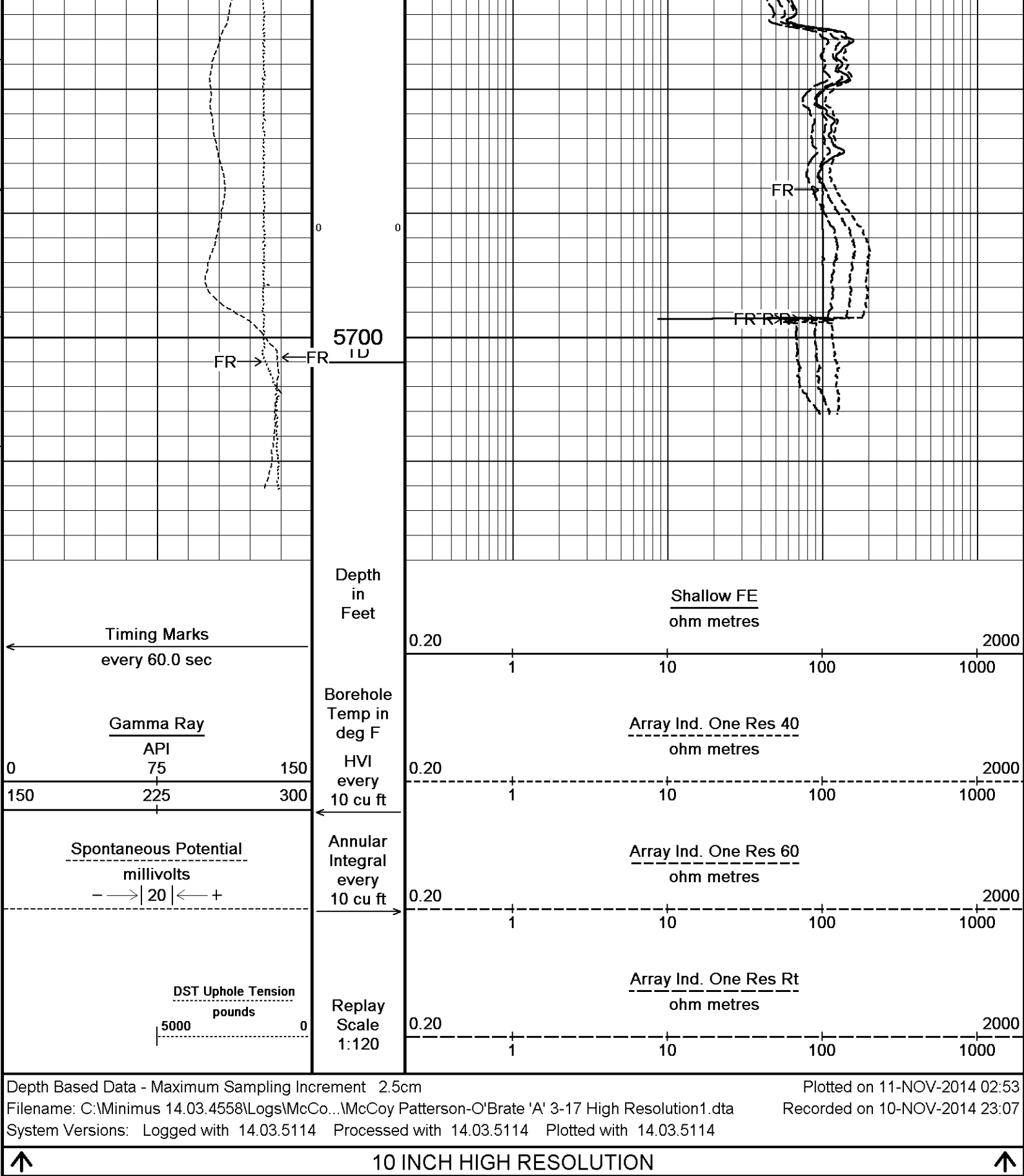


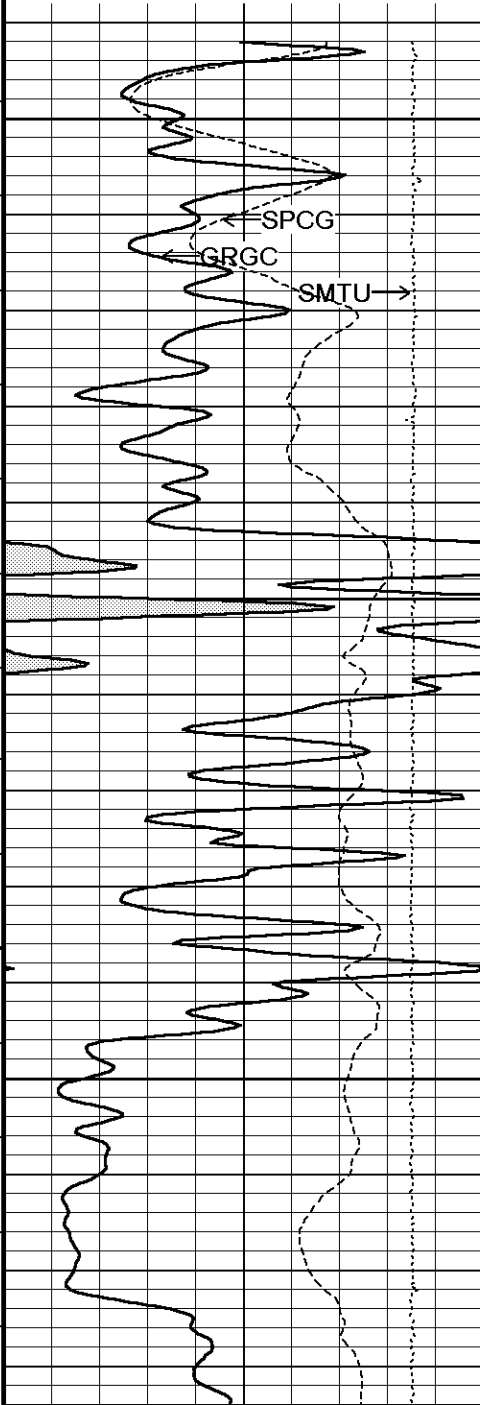
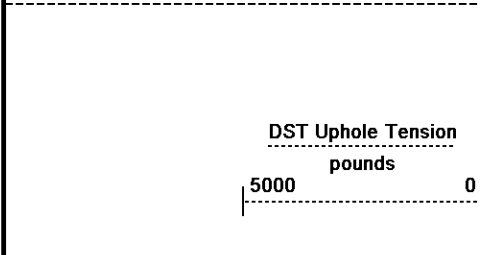
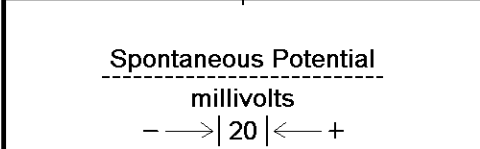
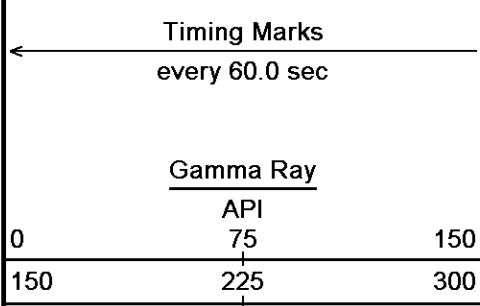












Feet

Borehole
Temp in
deg F

HVI
every
10 cu ft

Annular
Integral
every
10 cu ft

Replay
Scale
1:240

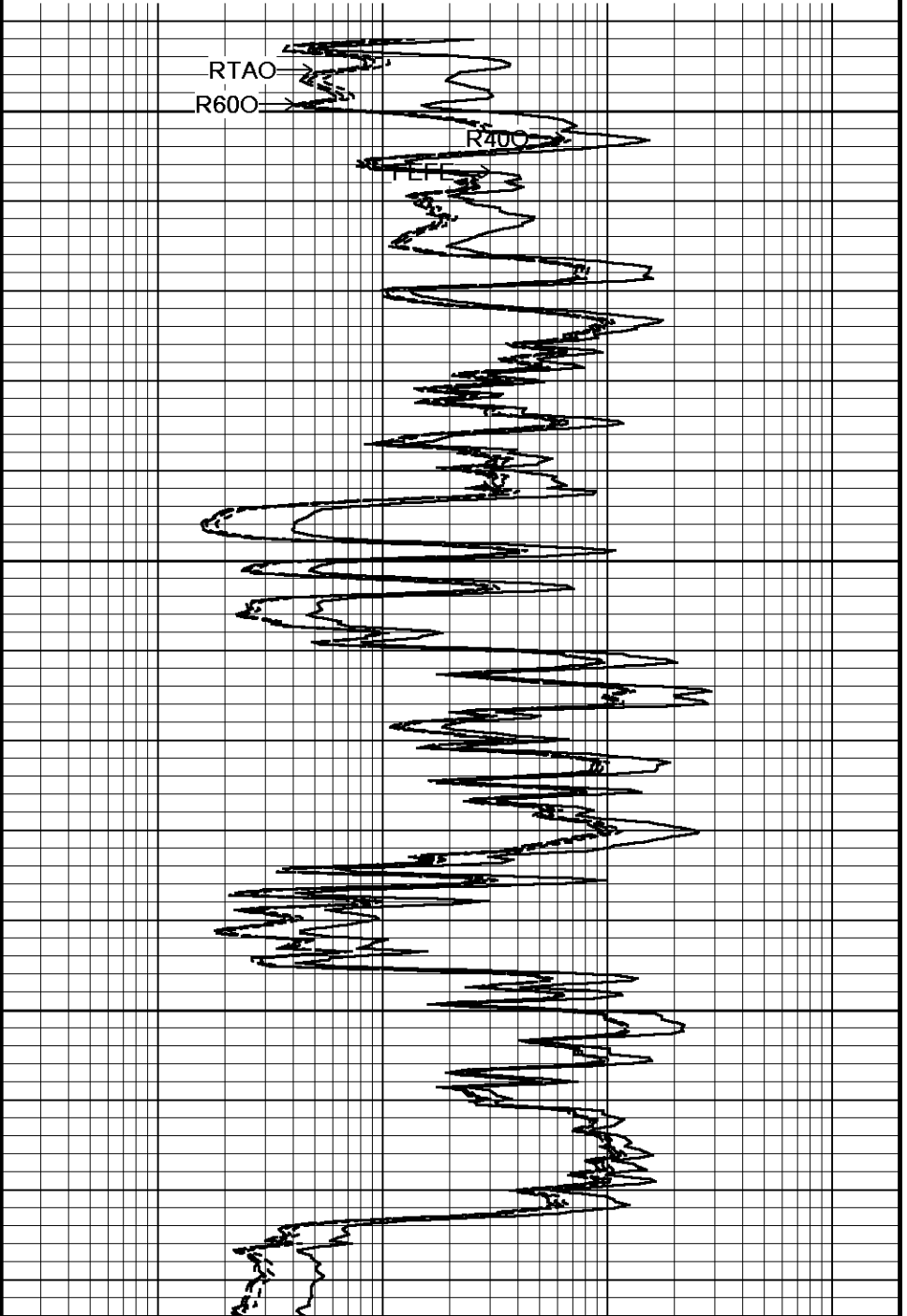
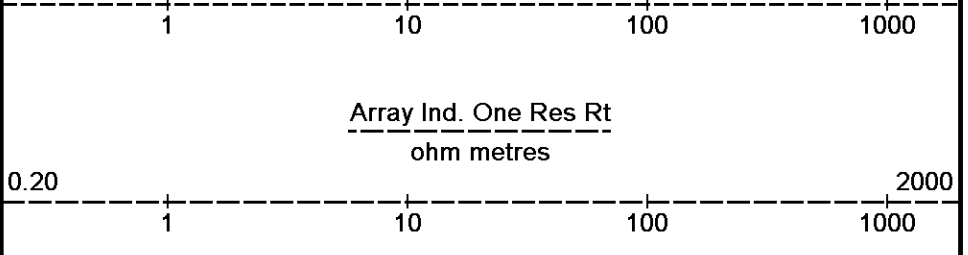
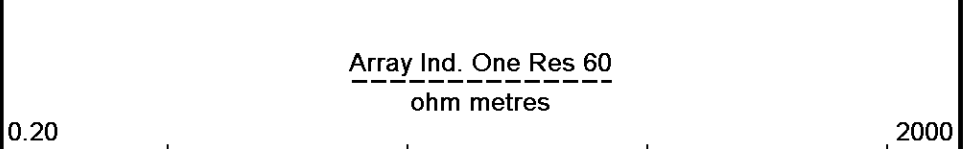
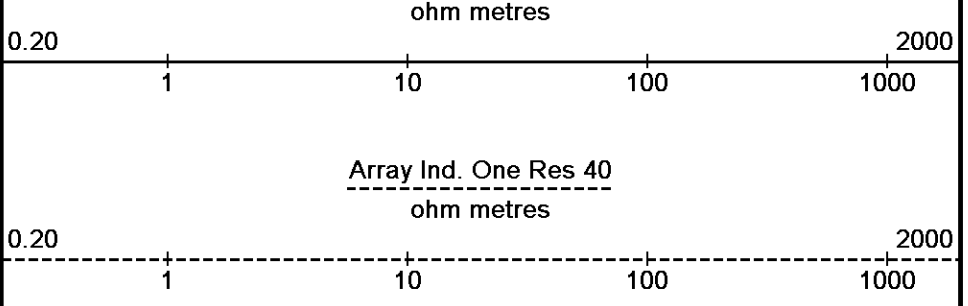
SPCG

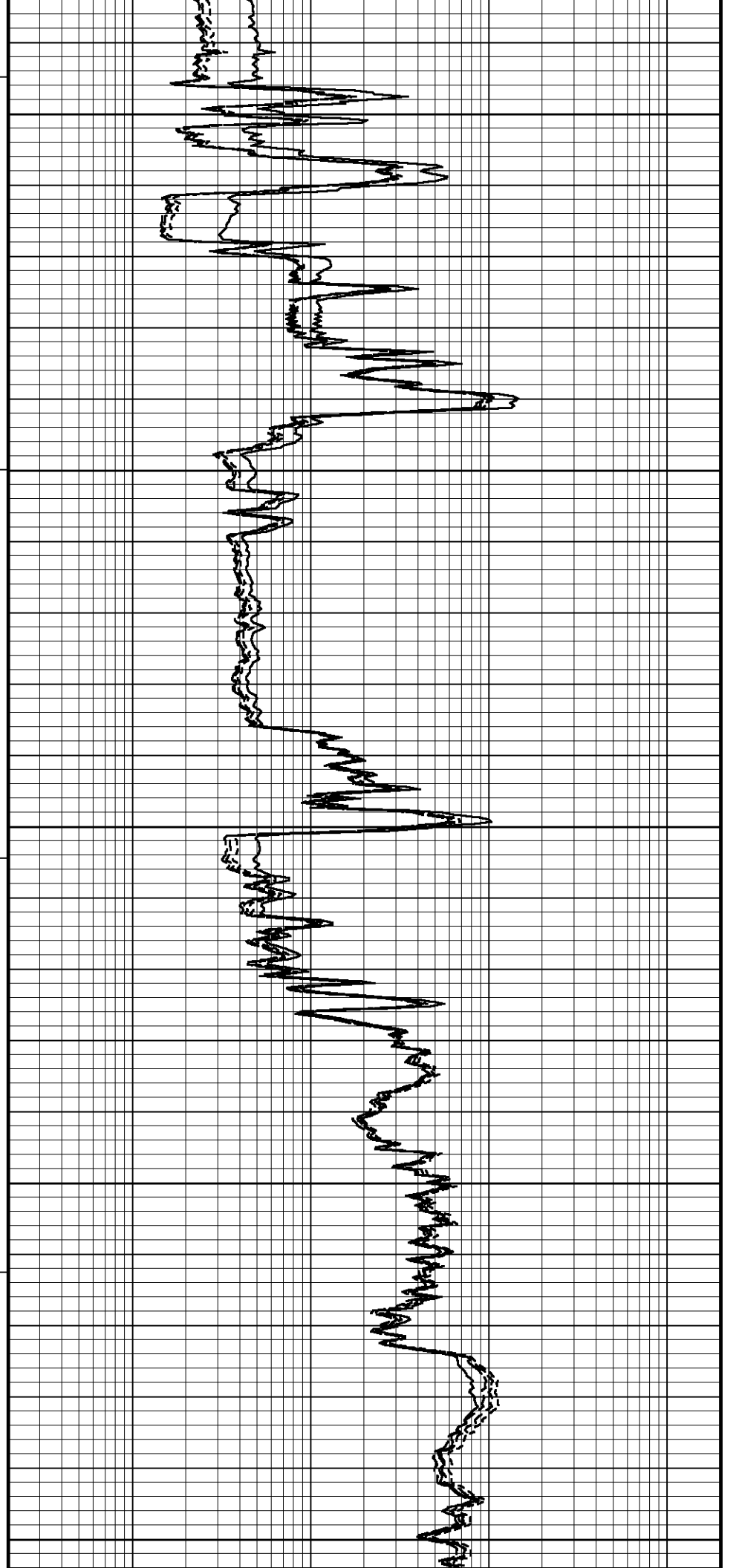
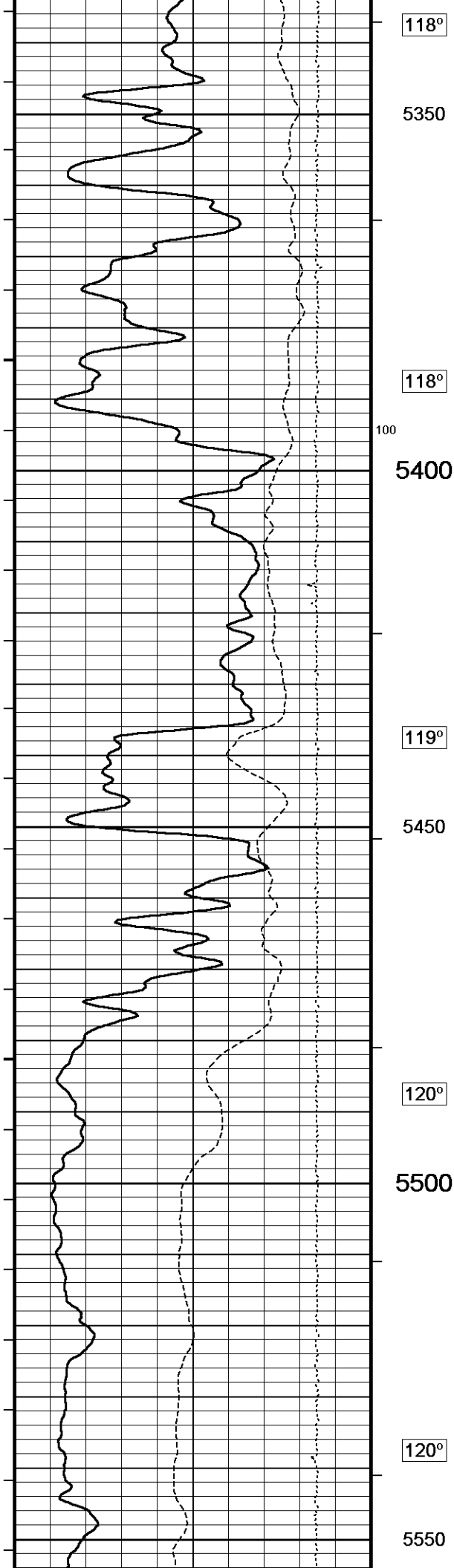
GRGC

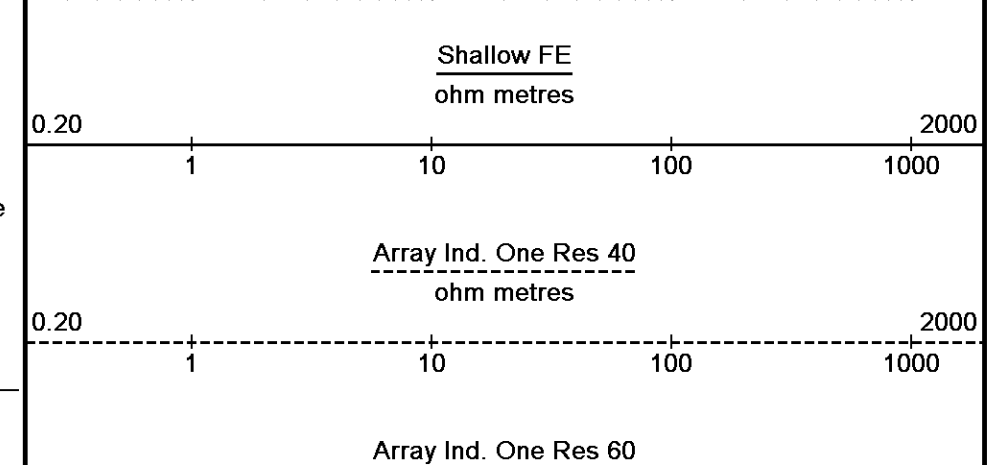
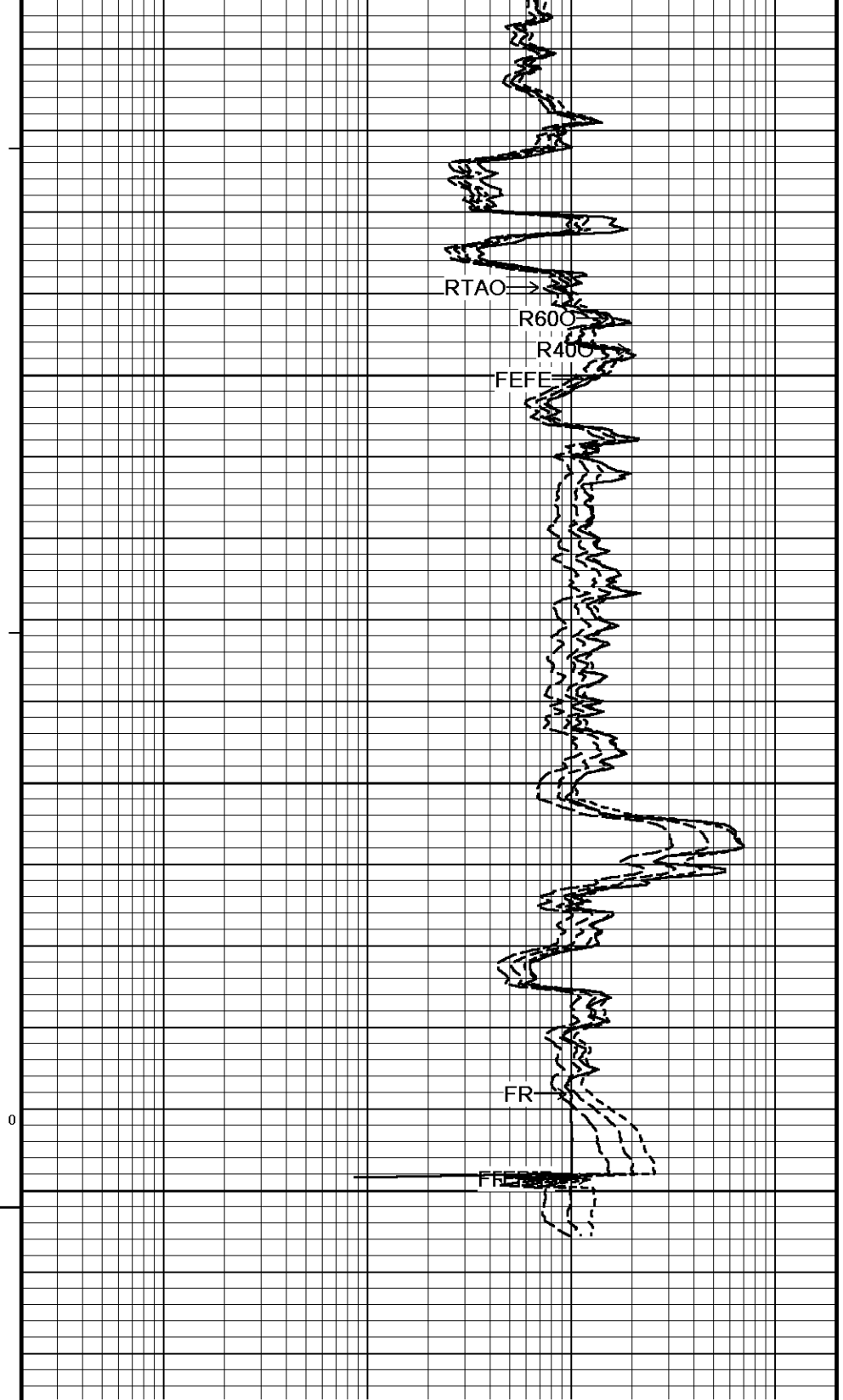
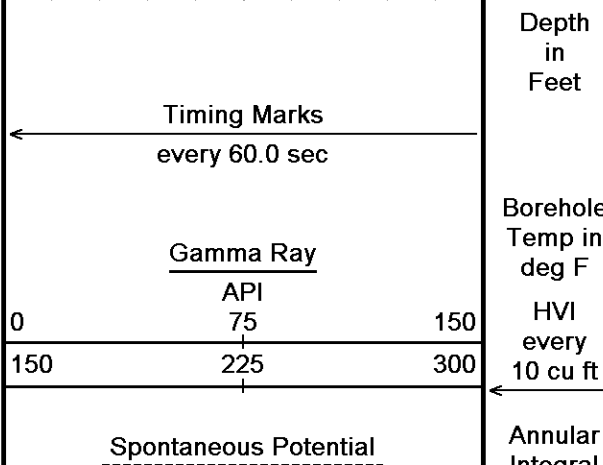
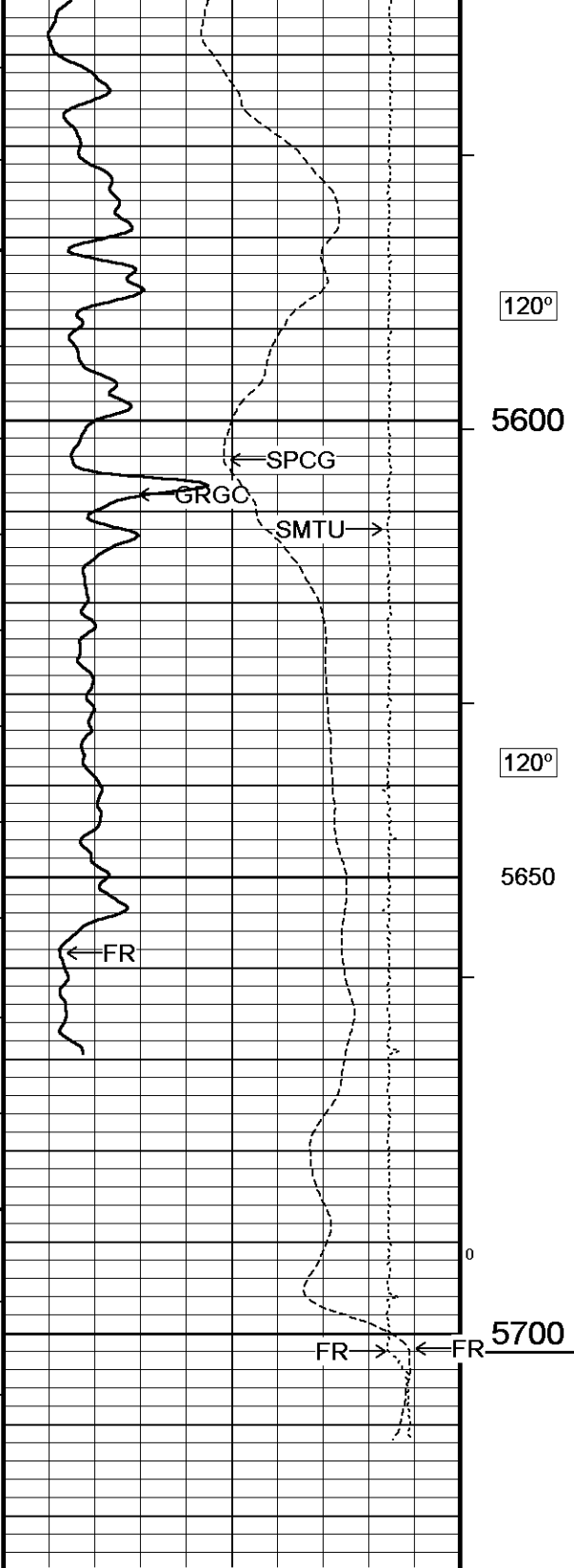
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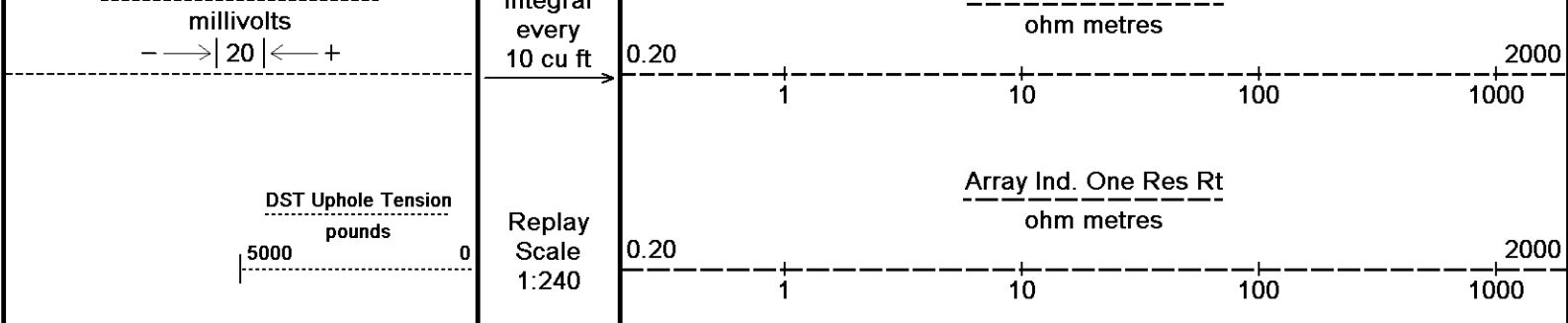
117°

117°









Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 11-NOV-2014 02:53
 Filename: C:\Minimus 14.03.4558\Logs\McCoy Patters...\McCoy Patterson-O'Brate 'A' 3-17 Repeat1.dta Recorded on 10-NOV-2014 23:07
 System Versions: Logged with 14.03.5114 Processed with 14.03.5114 Plotted with 14.03.5114

↑ REPEAT SECTION ↑

BEFORE SURVEY CALIBRATION
 C:\Minimus 14.03.4558\Logs\McCoy Patterson-O'Brate 'A' 3-17\McCoy Patterson-O'Brate 'A' 3-17 Repeat1.dta

General Constants All 000			Last Edited on 10-NOV-2014,20:39
General Parameters			
Mud Resistivity	1.970	ohm-metres	
Mud Resistivity Temperature	75.000	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 10-NOV-2014 22:07	
Reading No	Measured	Calibrated (lbs)	
1	15342.73	0.00	
2	15915.40	407.90	

Gamma Calibration MCG-C 208		Field Calibration on 10-NOV-2014 09:47	
	Measured	Calibrated (API)	
Background	72	49	
Calibrator (Gross)	1130	774	
Calibrator (Net)	1057	725	

Gamma Calibration Tolerances MCG-C 208	
Ratio	1.459
	Counts/API

Gamma Constants MCG-C 208			Last Edited on 10-NOV-2014,20:39		
Gamma Calibrator Number	GRC038				
GRC-M Calibrator Jig in Use?	NO				
Inactive Background Jig in Use?	NO				
Mud Density	1.11	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 10-NOV-2014 11:01

	Measured	Calibrated (mV)
Reference 1	99.9	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

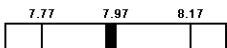
Field Calibration on 10-NOV-2014 09:36

Base Calibration		
Reading No	Measured	Calibrator Size (in)
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)
7.94	7.97

Caliper Calibration Tolerances MMR-C.A 248

Short Arm Field Cal. 7.94  in

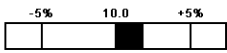
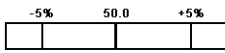
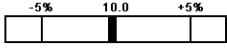
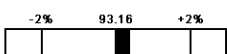
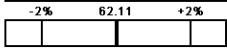
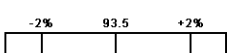
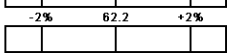
Micro Normal and Micro Inverse Calibration MMR-C.A 248

Base Calibration on 23-OCT-2014 10:02

Field Check on 02-NOV-2014 00:33

Base Calibration				
Channel	Resistor 1	Measured Resistor 2	Calibrated (ohm-m) 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 Normal Res. 2	49.9		ohm
Micro Inverse Res. 1	9.9		ohm	Micro Inverse Res. 2	49.5		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 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

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 10-NOV-2014 09:51

Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	3042	93	3714	110
Ratio	32.627		33.764	

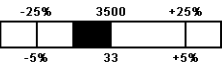
Field Calibrator at Base

	Calibrated (cps)	
	Near	Far
	1687	2482
Ratio	0.680	

Field Check

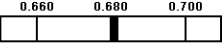
	Calibrated (cps)	
	Near	Far
	1673	2453
Ratio	0.682	

Neutron Calibration Tolerances MDN-A.B 163

Near Reading 3042  cps
 Ratio 32.627 

Far Reading 93  cps

Base Check 0.680 

Field Check 0.682 

Neutron Constants MDN-A.B 163

Last Edited on 10-NOV-2014,20:02

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

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 10-NOV-2014,20:01

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 10-NOV-2014 09:26

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			14.6	3862.9
2			31.6	3591.6
3			29.7	2972.4
4			20.7	2127.0
Deep			18.4	1913.0
Medium			42.9	3862.6
Shallow			46.9	5373.6
Array Temperature			66.3	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 10-NOV-2014,20:21

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		0.00	inches
Number of Fins on Stand-off		8.0000	
Stand-off Fin Angle		45.00	degrees
Stand-off Fin Width		0.0000	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-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

Photo Density Calibration MPD-D.A 481

Base Calibration on 22-OCT-2014 15:53

Field Check on 10-NOV-2014 09:33

Density Calibration				
Base Calibration		Measured	Calibrated (sdu)	
	Near	Far	Near	Far
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
1211.2 1417.9

PE Calibration				
Base Calibration		Measured	Calibrated	
	WS	WH	Ratio	Ratio
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

230.6 1082.6

Photo Density Calibration Tolerances MPD-D.A 481

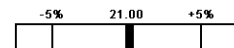
Near Density Ratio

2.57



Far Density Ratio

21.11



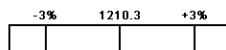
PE Calibration

0.120



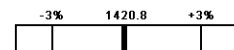
Near Den. Field Check

1211.2



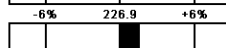
Far Den. Field Check

1417.9



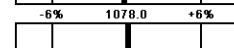
PE WS Field Check

230.6



PE WH Field Check

1082.6



Density Constants MPD-D.A 481

Last Edited on 10-NOV-2014,20:38

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	1.11	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 10-NOV-2014 09:28

Base Calibration

Reading No

Measured

Calibrator Size (in)

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)

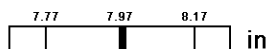
7.98

7.97

Caliper Calibration Tolerances MPD-D.A 481

Short Arm Field Cal.

7.98



in

DOWNHOLE EQUIPMENT

C:\Minimus 14.03.4558\Logs\McCoy Patterson-O'Brate 'A' 3-17\McCoy Patterson-O'Brate 'A' 3-17 Repeat1.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



43.50 ft

GRGC - Gamma Ray

40.59 ft

CGXT - MCG External Temperature

Compact Micro-Resistivity
MMR-C.A 248 LG: 8.59 ft WT: 81.6 lb OD: 4.882 in

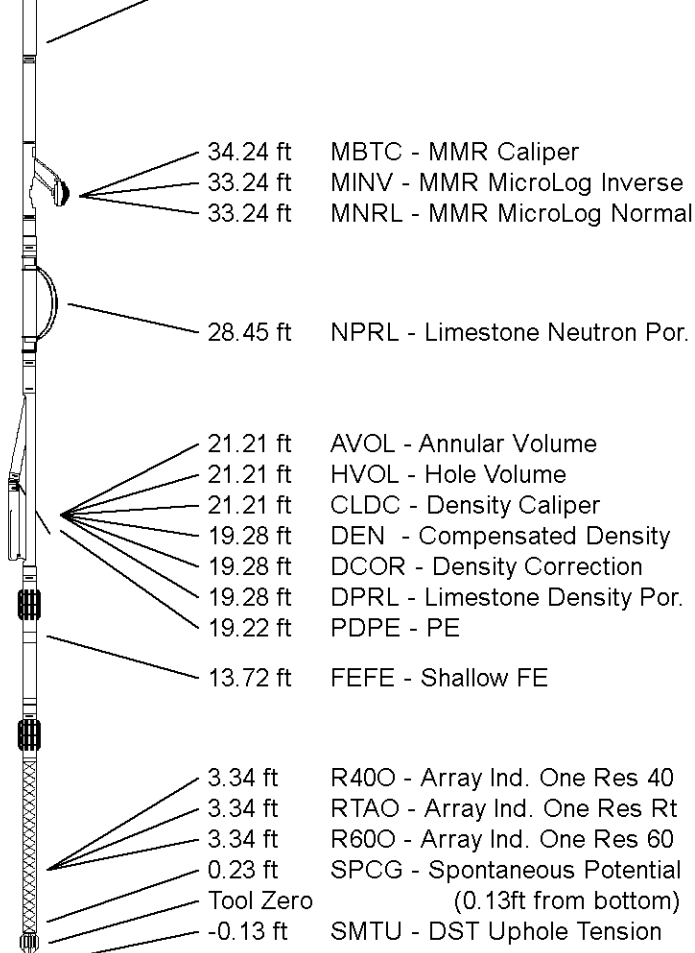
Compact Neutron
MDN-A.B 163 LG: 5.04 ft WT: 50.7 lb OD: 2.244 in

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 **PATTERSON-O'BRATE 'A' 3-17**
FIELD **MERTILLA SOUTHEAST**
PROVINCE/COUNTY **MEADE**
COUNTRY/STATE **U.S.A. / KANSAS**

Elevation Kelly Bushing	2825.00	feet	First Reading	5699.00	feet
Elevation Drill Floor	2823.00	feet	Depth Driller	5700.00	feet
Elevation Ground Level	2814.00	feet	Depth Logger	5702.00	feet



**ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG**

Weatherford®

Weatherford		ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG	
COMPANY	McCOY PETROLEUM CORPORATION	WELL	PATTERSON-O'BRATE 'A' 3-17
FIELD	MERTILLA SOUTHEAST	PROVINCE/COUNTY	MEADE
COUNTRY/STATE	U.S.A. / KANSAS	LOCATION	9901 ENL & 1650' FWL
SEC. 17	TWP. 30S	RGE. 30W	TIME SERVICES
DATE	15-11-2013	MEASURED	15-11-2013
LOG NUMBER	7577-10283729	LOG MEASURED FROM	KB @ 11 feet
DATE	10-NOV-2014	LOG MEASURED FROM	KB @ 11 feet
Run Number	ONE	Depth Driller	5700.00 feet
Depth Driller	5700.00 feet	Depth Logger	5702.00 feet
First Reading	5699.00 feet	Last Reading	1857.00 feet
Casing Driller	1856.00 feet	Casing Logger	1856.00 feet
Bit Size	7.875 inches	Hole Fluid Type	CHEMICAL
Density/Viscosity	9.25 lb/sg	PH/Fluid Loss	8.00 ml/30min
Sample Source	MUD PIT	Rm @ Measured Temp	1.97 @ 75.0 ohm-in
Rm @ Measured Temp	1.97 @ 75.0 ohm-in	Rm @ Measured Temp	1.38 @ 75.0 ohm-in
Rm @ Measured Temp	1.38 @ 75.0 ohm-in	Rm @ Measured Temp	2.36 @ 75.0 ohm-in
Source Rm / Rmc	CALC	Source Rm / Rmc	CALC
Rm @ BHT	1.24 @ 22.0 ohm-in	Time Since Circulation	3.5 HOURS
Max Recorded Temp	132.00 deg F	Equipment / Base	132.44 LIB
Recorded By	JEFFREY RANDLE	Transmitted By	ZACH WHELE
LOG #	1514-392		

1 INCH MAIN

Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 11-NOV-2014 02:53
 Filename: C:\Minimus 14.03.4558\Logs\McCoy Patterson-O'Br...McCoy Patterson-O'Brate 'A' 3-17 Main1.dta
 Recorded on 11-NOV-2014 00:18
 System Versions: Logged with 14.03.5114 Processed with 14.03.5114 Plotted with 14.03.5114

Timing Marks every 60.0 sec	Depth In Feet	Borehole Temp in deg F	Array Ind. One Cond Ct mmhos/metre
0	0	0	1000
150	150	0	750
300	300	0	500
			250
			0

Gamma Ray
API 75 HVI every 10 cu ft

Shallow FE ohm metres

Annular Integral every 10 cu ft

Array Ind. One Res Rt ohm metres

Replay Scale 1:600

Casing 1850 5895

DST Uphole Tension pounds

94°

95°

96°

97°

97°

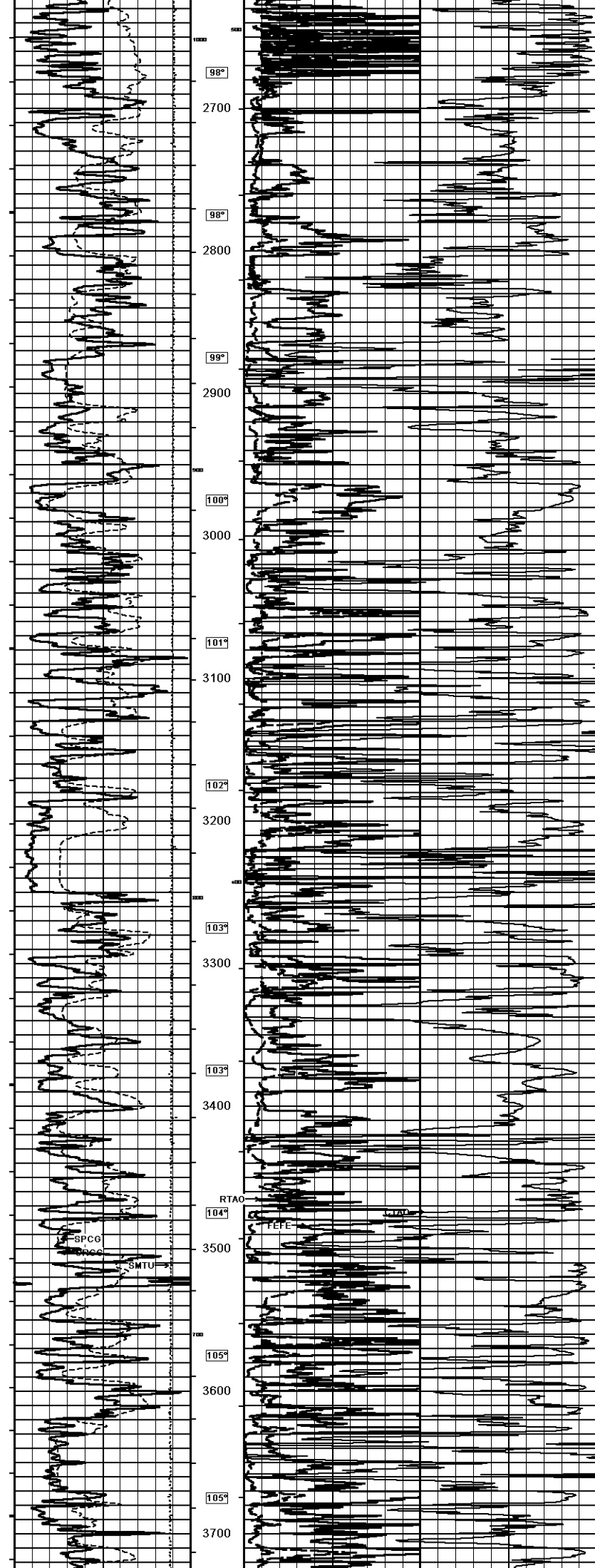
97°

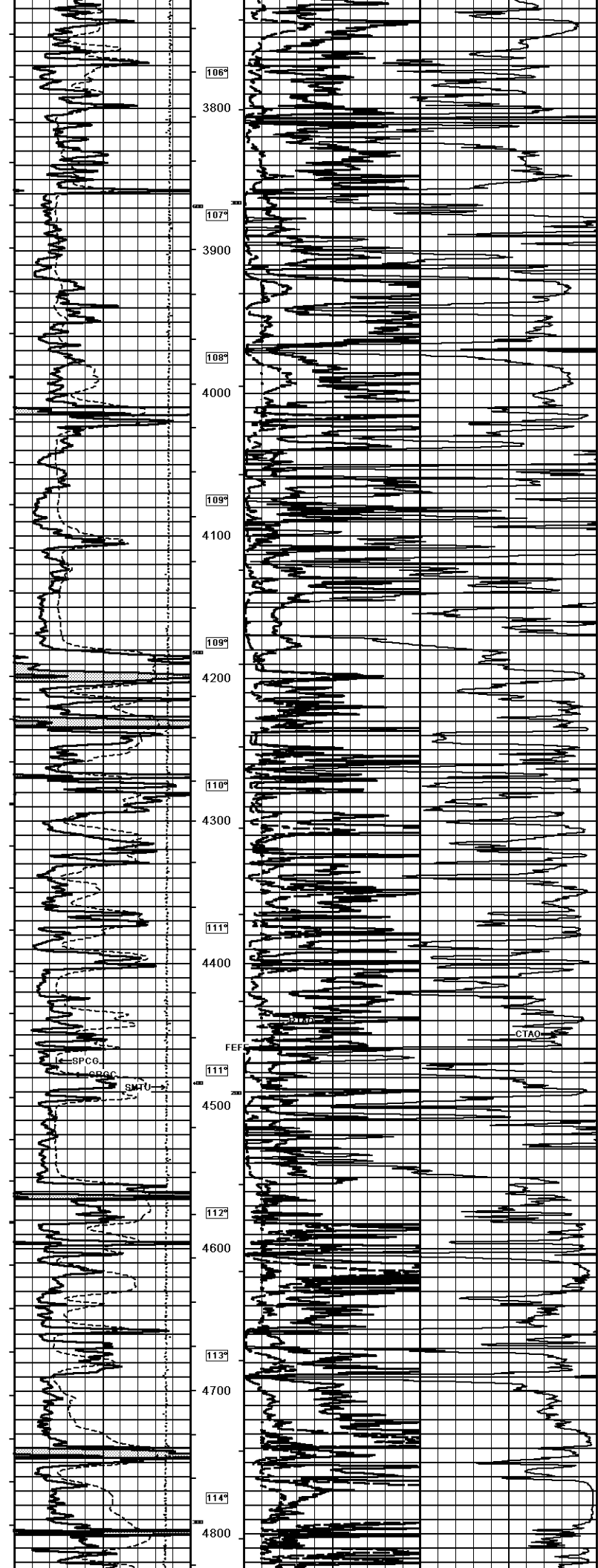
97°

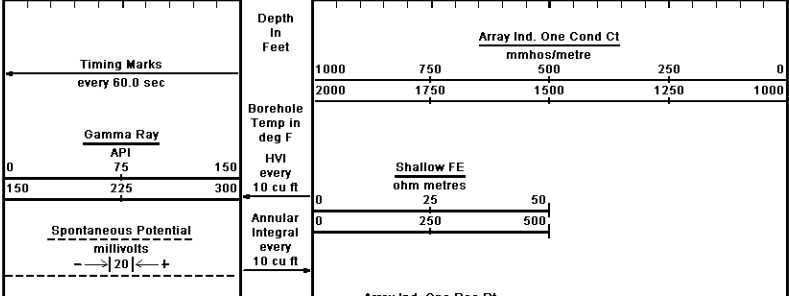
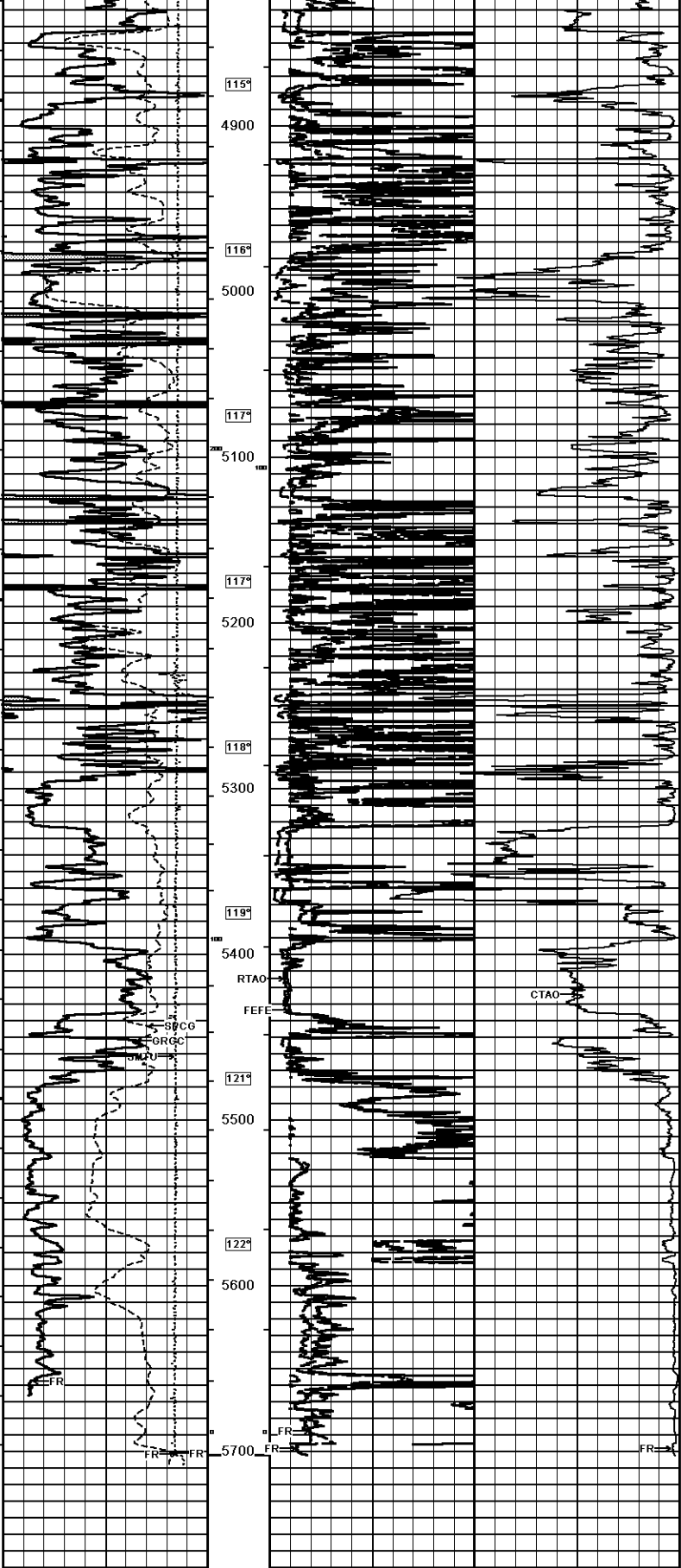
CTAO

SPCG

SMTU







DST Uphole Tension
pounds

5000

0

Replay
Scale
1:600

Array Ind. One Res Rt
ohm metres

02550

0250500

Depth Based Data - Maximum Sampling Increment 10.0cmPlotted on 11-NOV-2014 02:53
Filename: C:\Minimus 14.03.4558\Logs\McCoy Patterson-O'Br...McCoy Patterson-O'Brate 'A' 3-17 Main1.dtaRecorded on 11-NOV-2014 00:18
System Versions: Logged with 14.03.5114 Processed with 14.03.5114 Plotted with 14.03.5114

1 INCH MAIN

COMPANY

WELL

FIELD

PROVINCE/COUNTY

COUNTRY/STATE

McCOY PETROLEUM CORPORATION

PATTERSON-O'BRATE 'A' 3-17

MERTILLA SOUTHEAST

MEADE

U.S.A. / KANSAS

Elevation Kelly Bushing2825.00feet

Elevation Drill Floor2823.00feet

Elevation Ground Level2814.00feet

First Reading5699.00feet

Depth Driller5700.00feet

Depth Logger5702.00feet

Weatherford

ARRAY INDUCTION

SHALLOW FOCUSED

ELECTRIC LOG