



Weatherford[®]

**ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG**

COMPANY GRAND MESA OPERATING COMPANY

WELL J A NOVA #2-27

FIELD WILDCAT

PROVINCE/COUNTY LOGAN

COUNTRY/STATE U.S.A. / KANSAS

LOCATION 2420' FNL & 753 FEL

SEC 27 TWP 12S RGE 32W Other Services MDN/MPD MML

API Number 15-109-21183

Permit Number

Permanent Datum G.L., Elevation 3015 feet

Log Measured From KB

Drilling Measured From K.B. @ 9 FEET

Date 30-MAY-2013

Run Number ONE

Service Order 3539060

Depth Driller 4715.00 feet

Depth Logger 4710.00 feet

First Reading 4707.00 feet

Last Reading 216.00 feet

Casing Driller 216.00 feet

Casing Logger 216.00 feet

Bit Size 7.875 inches

Hole Fluid Type CHEMICAL

Density / Viscosity 9.50 lb/USg 54.00 CP

PH / Fluid Loss 9.50 8.80 ml/30Min

Sample Source FLOWLINE

Rm @ Measured Temp 1.52 @ 85.0 ohm-m

Rmf @ Measured Temp 1.22 @ 85.0 ohm-m

Rmc @ Measured Temp 1.82 @ 85.0 ohm-m

Source Rmf / Rmc CALC CALC

Rm @ BHT 1.08 @120.0 ohm-m

Time Since Circulation 4 HOURS

Max Recorded Temp 120.00 deg F

Equipment / Base 13057 LIB

Recorded By W STAMBAUGH

Witnessed By JOHN GOLDSMITH

JOB # LB13-157

Elevations:
KB 3024.00
DF 3023.00
GL 3015.00

BOREHOLE RECORD

Last Edited: 30-MAY-2013 23:04

Bit Size inches	Depth From feet	Depth To feet
7.875	216.00	4710.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	8.625	0.00	216.00	24.00

REMARKS

- SOFTWARE ISSUE: WLS 13.05.9583.
- RUN 1: MCG, MML, MDN, MPD, MFE, MAI RUN IN COMBINATION.
 - HARDWARE: DUAL ECCENTRALISER 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 216 FEET: 1870 CU. FT.
- ANNULAR HOLE VOLUME WITH 5.5 INCH PRODUCTION CASING FROM TD TO 3750 FEET: 1130 CU. FT.
- RIG: DUKE DRILLING #4

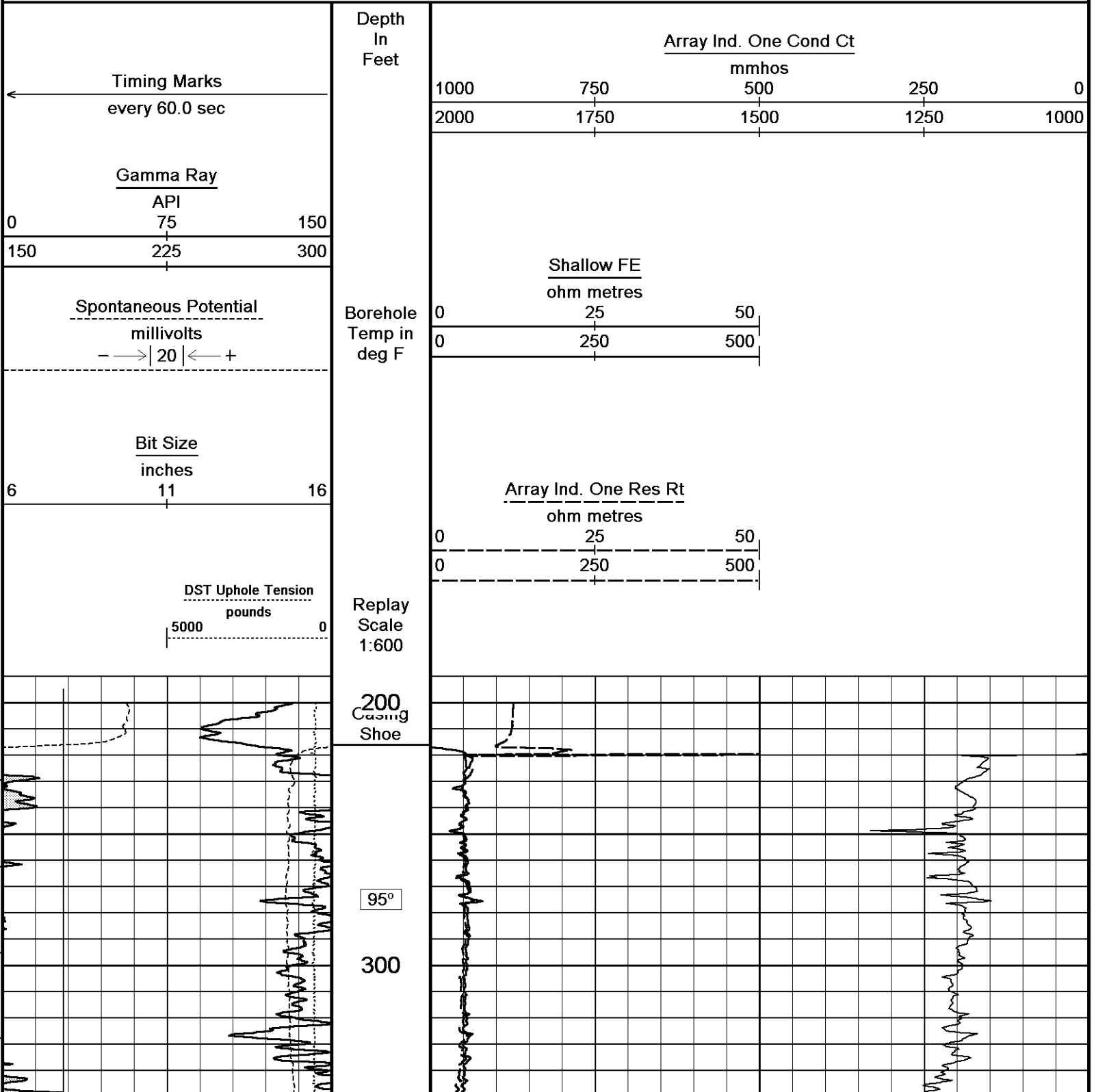
- ENGINEER: WILLIAM STAMBAUGH,

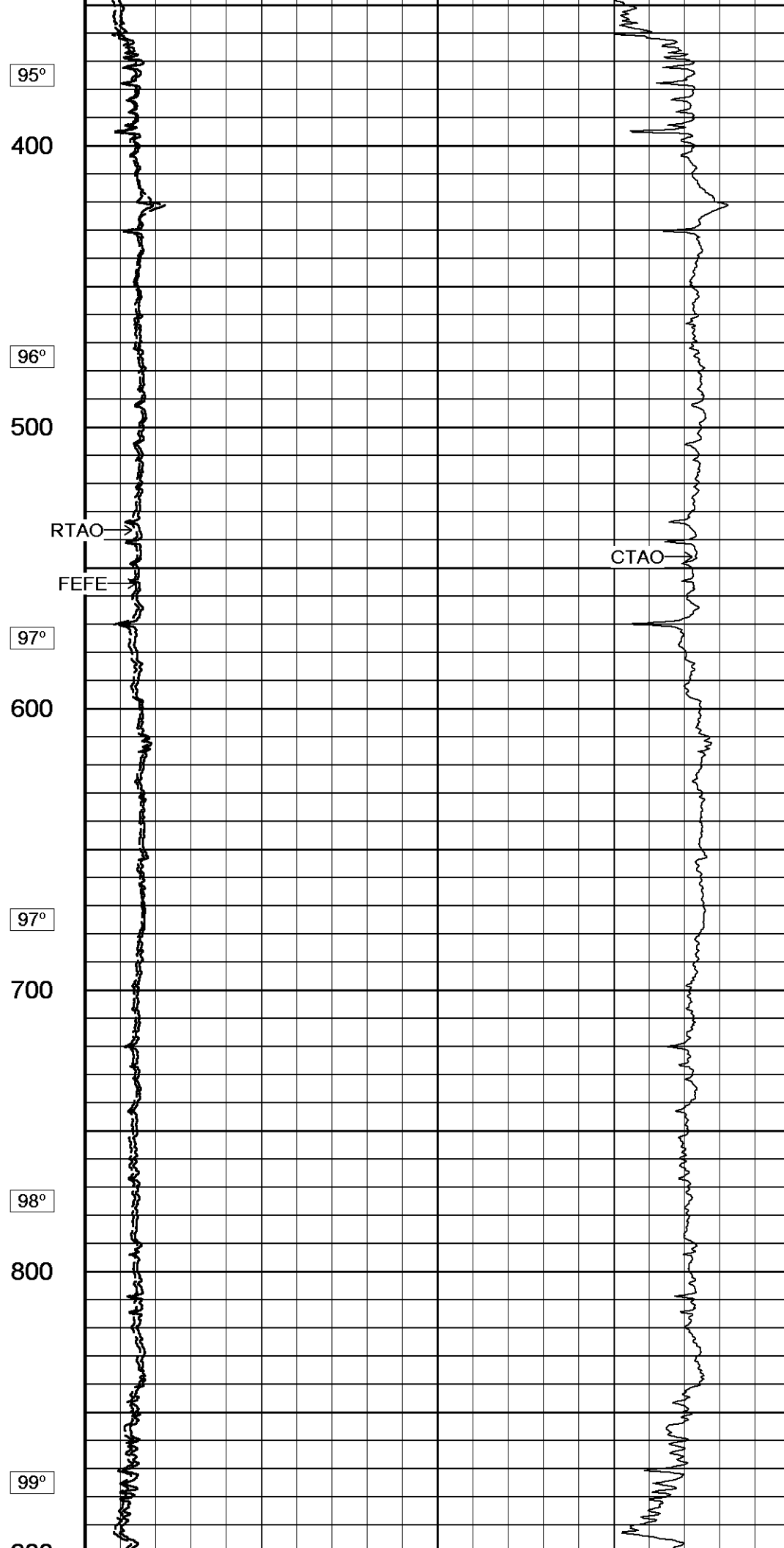
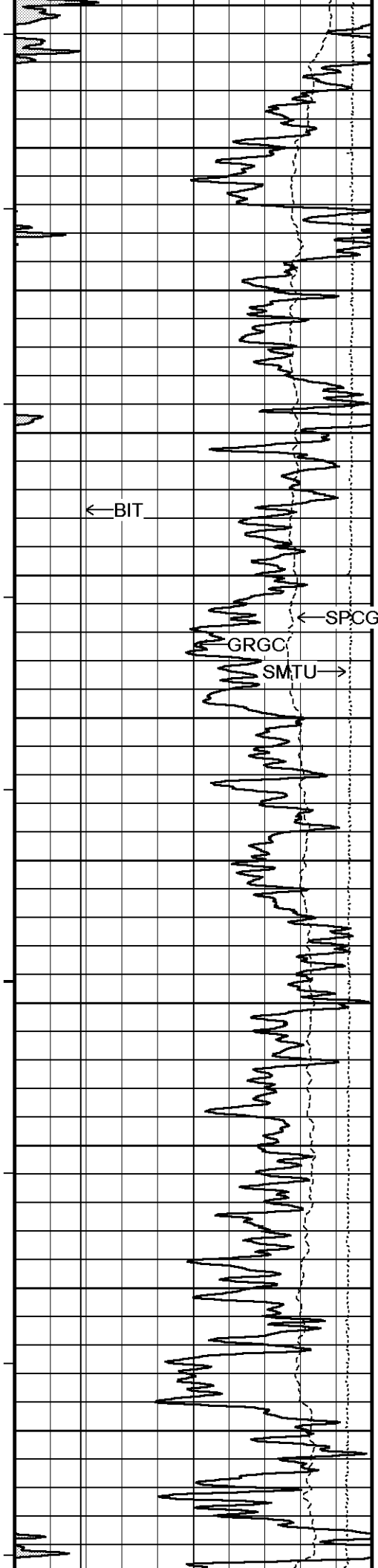
- OPERATOR(S): NICOLAS ADAME, MANUEL HERNANDEZ

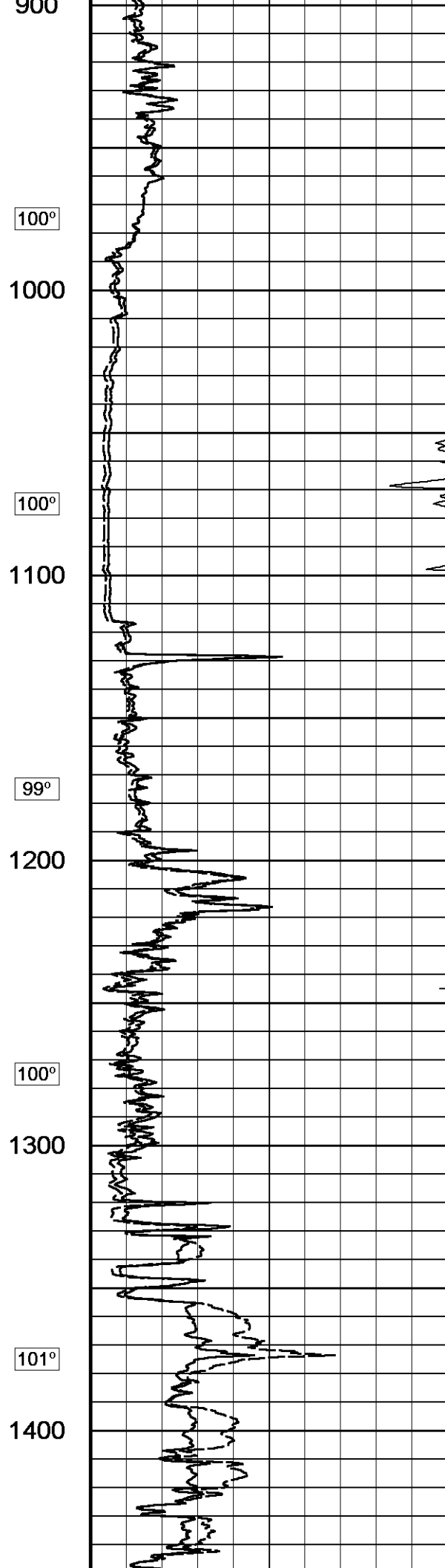
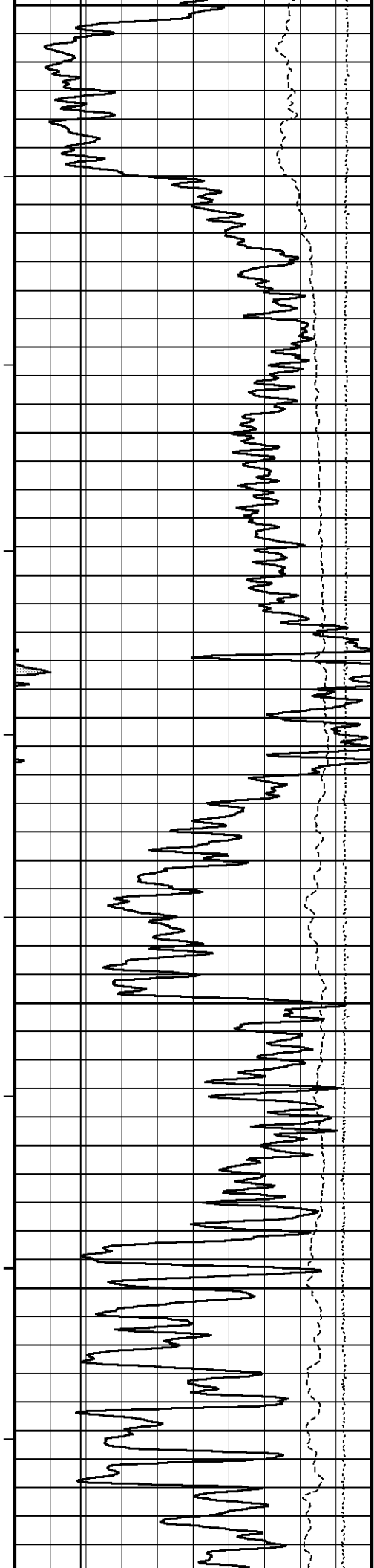
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

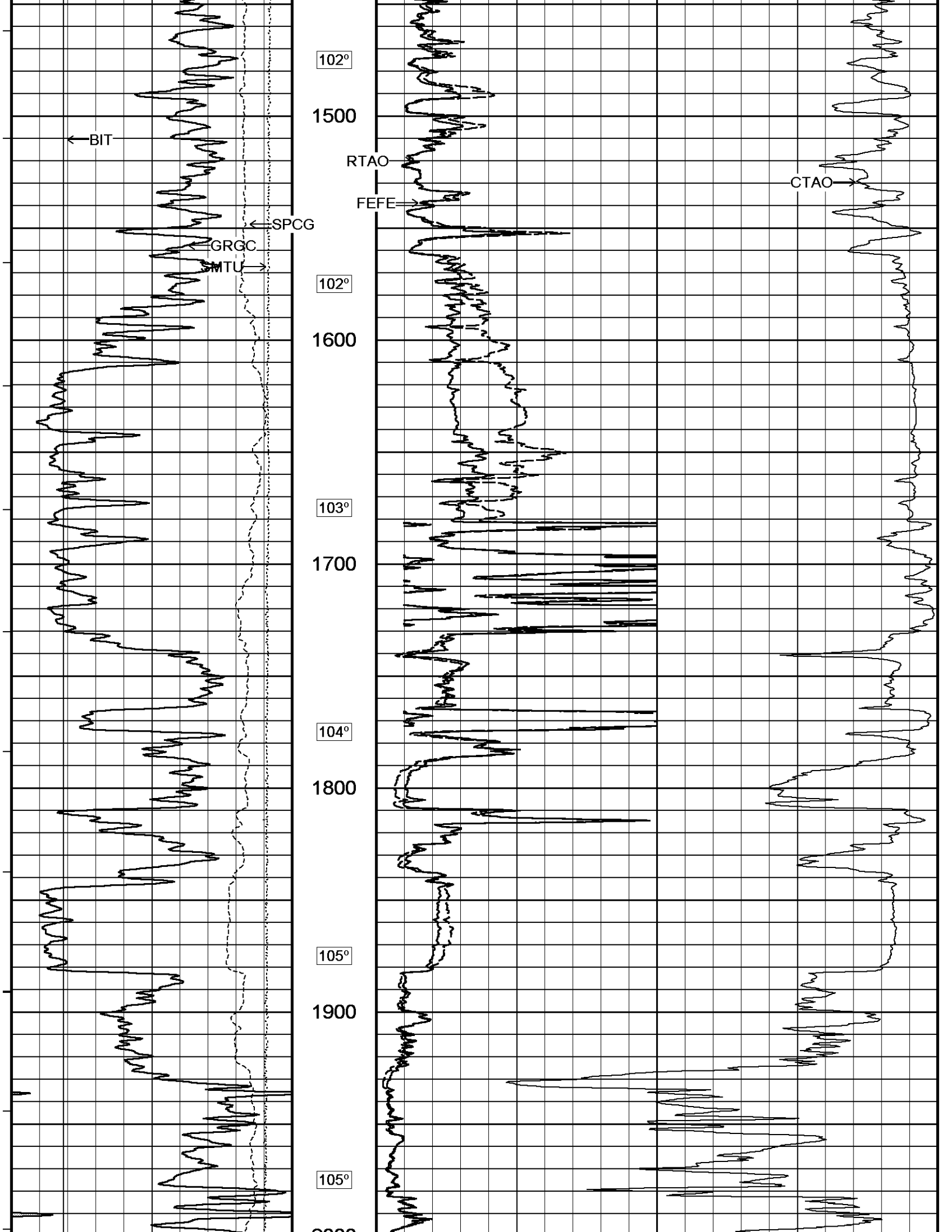
2 INCH MAIN

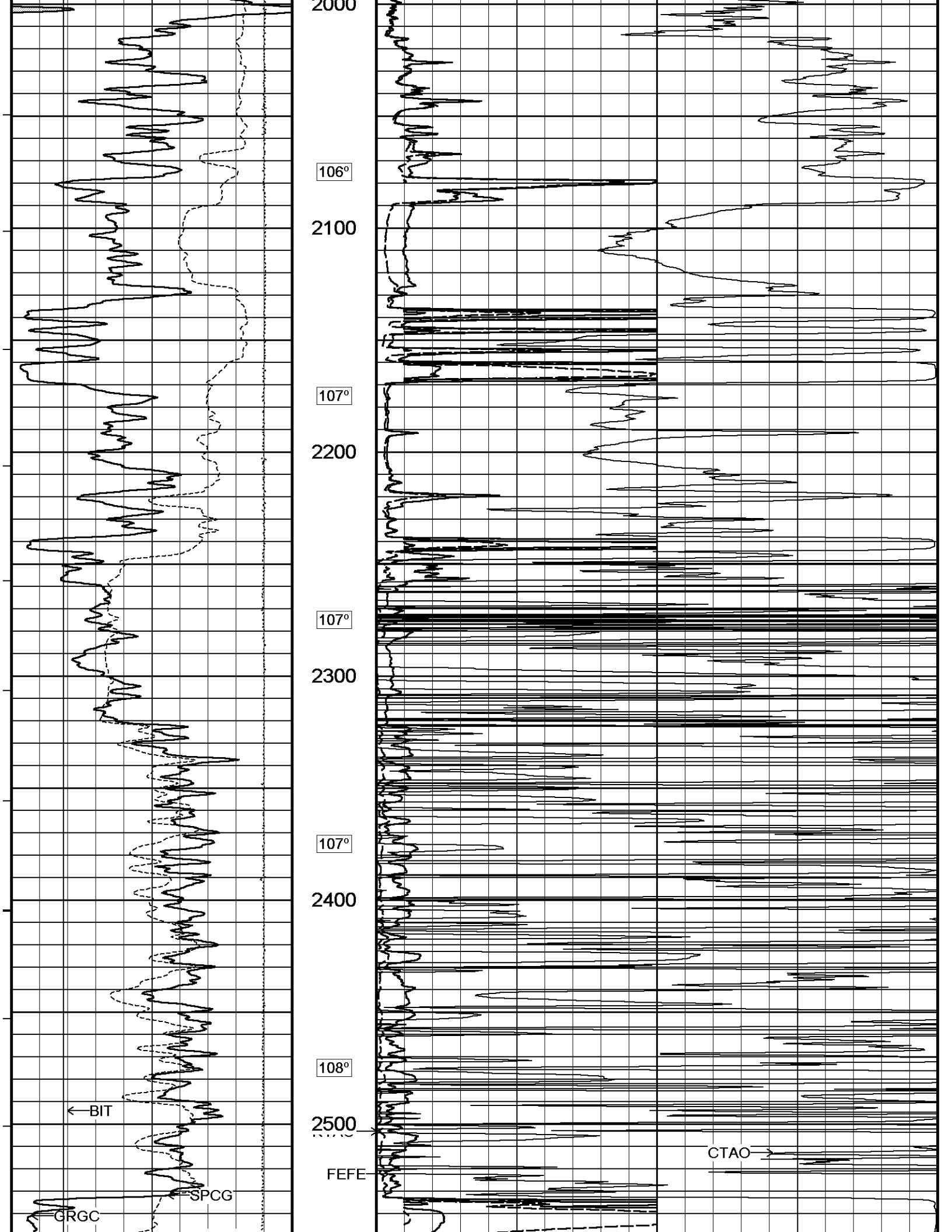
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 Filename: C:\Minimus 13.05.9583\Logs\Grand Mesa Janova #2-27\Grand Mesa Janova #2-27_002.dta Recorded on 30-MAY-2013 19:40
 System Versions: Logged with 13.05.9583 Plotted with 13.05.9583











SMTU

108°

2600

109°

2700

109°

2800

110°

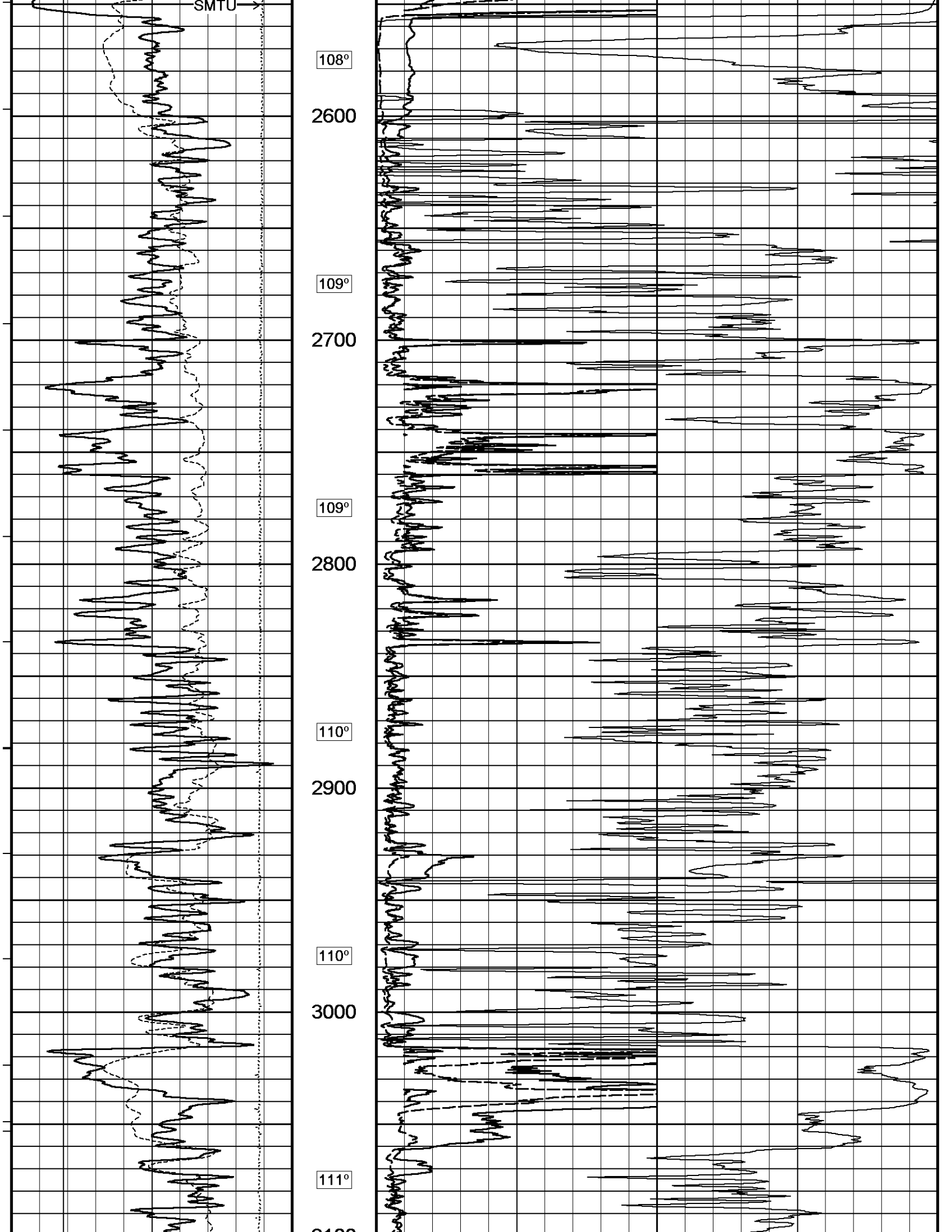
2900

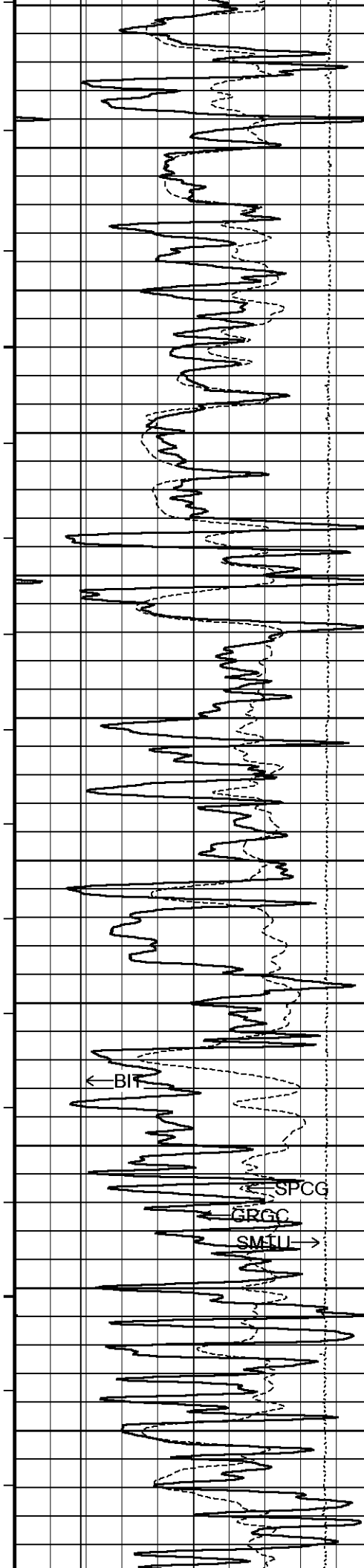
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3000

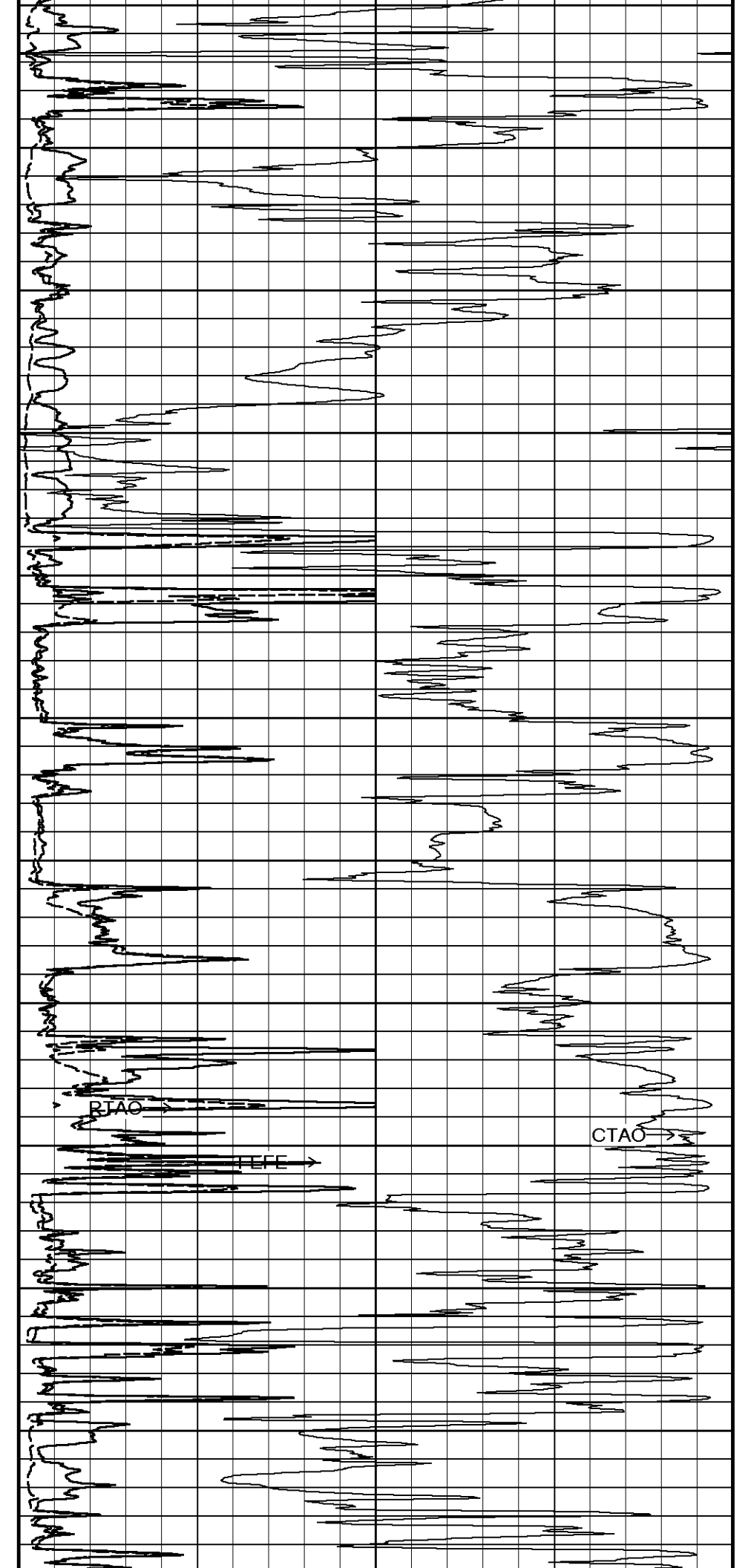
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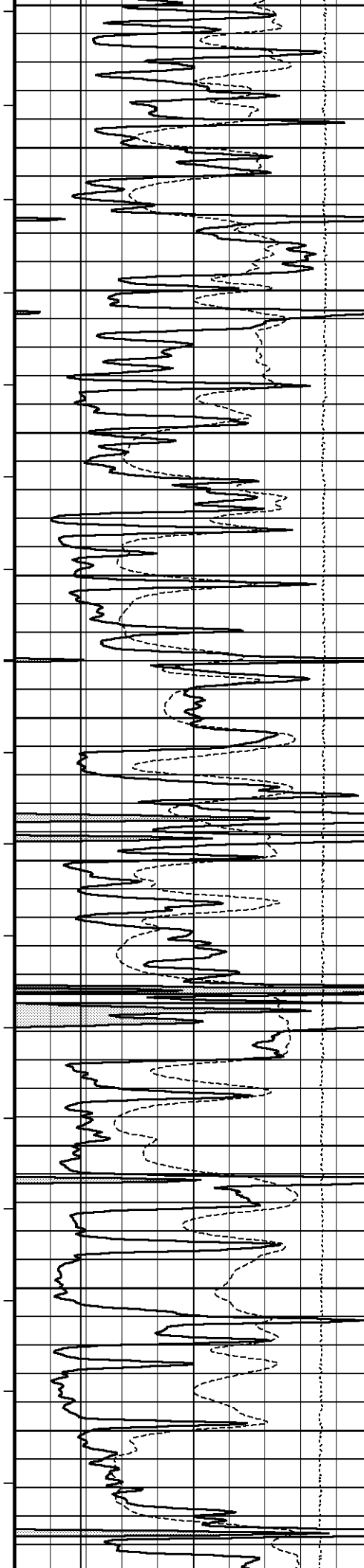
3100





3100
111°
3200
112°
3300
113°
3400
113°
3500
114°
3600





114°
3700

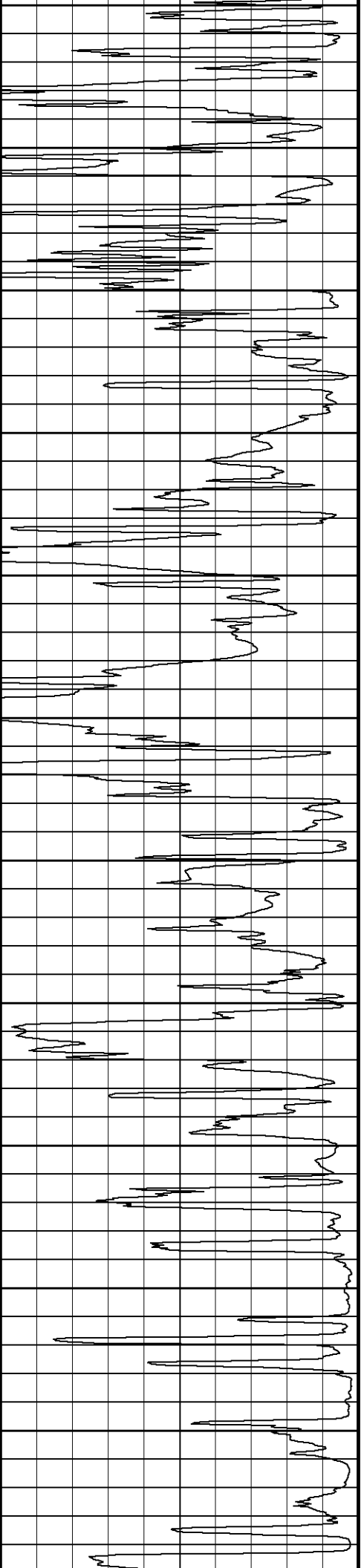
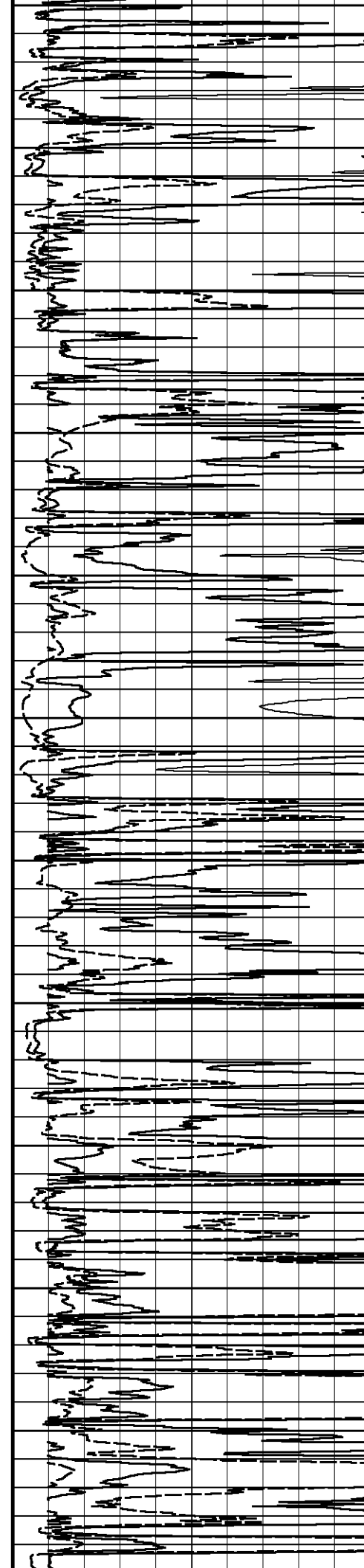
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3800

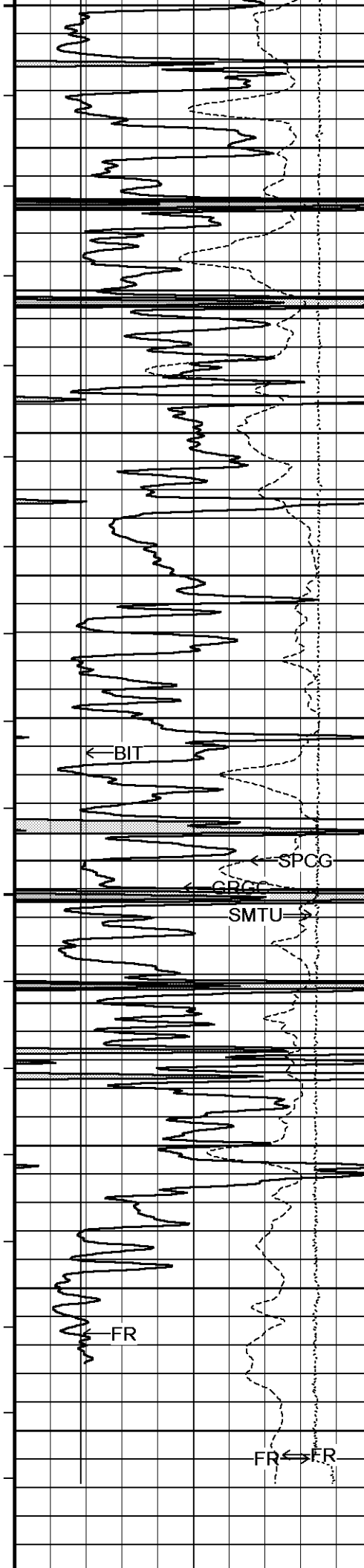
115°
3900

116°
4000

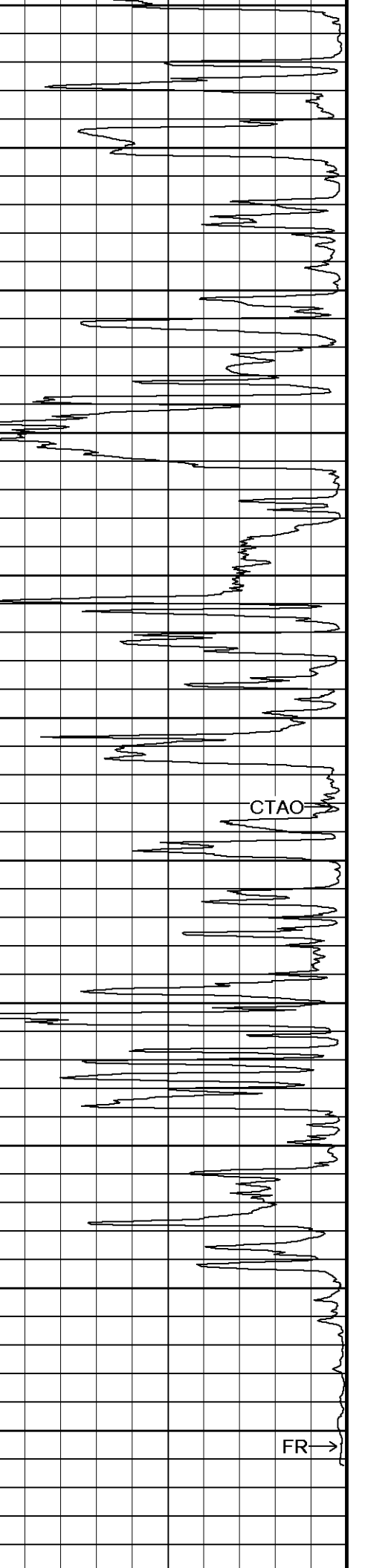
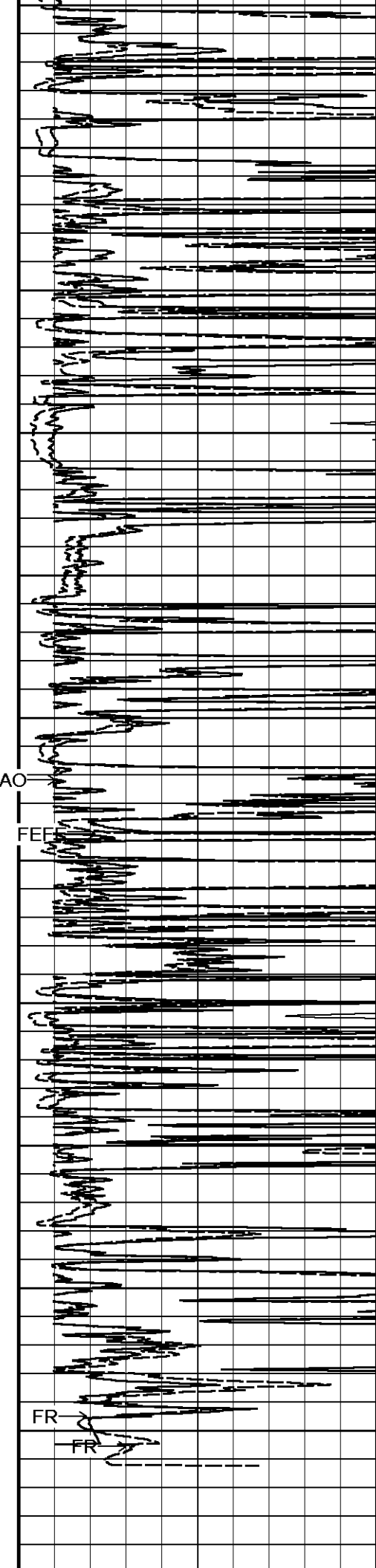
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4100

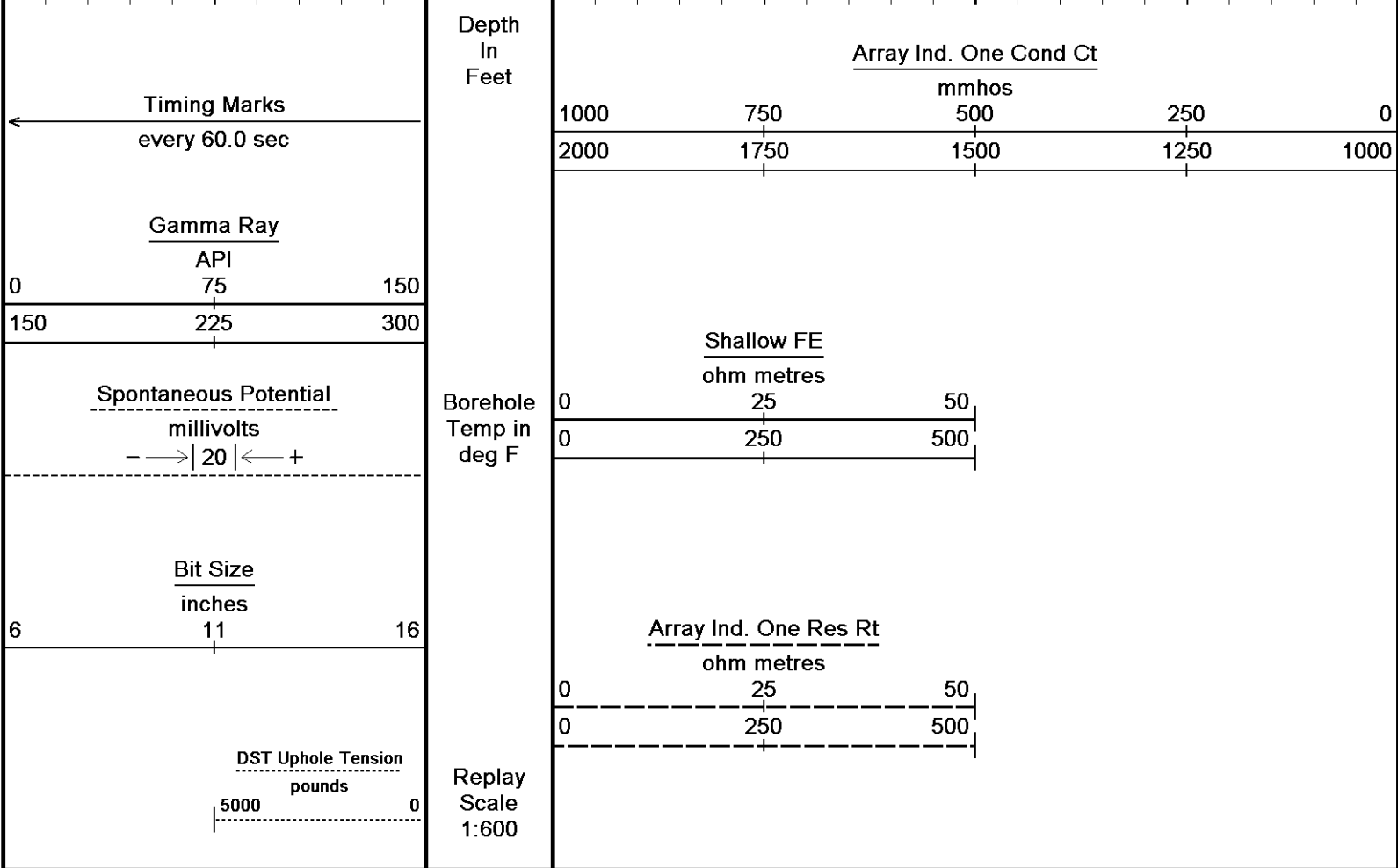
117°
4200





4200
117°
4300
118°
4400
119°
4500
120°
4600
120°
4700
4740



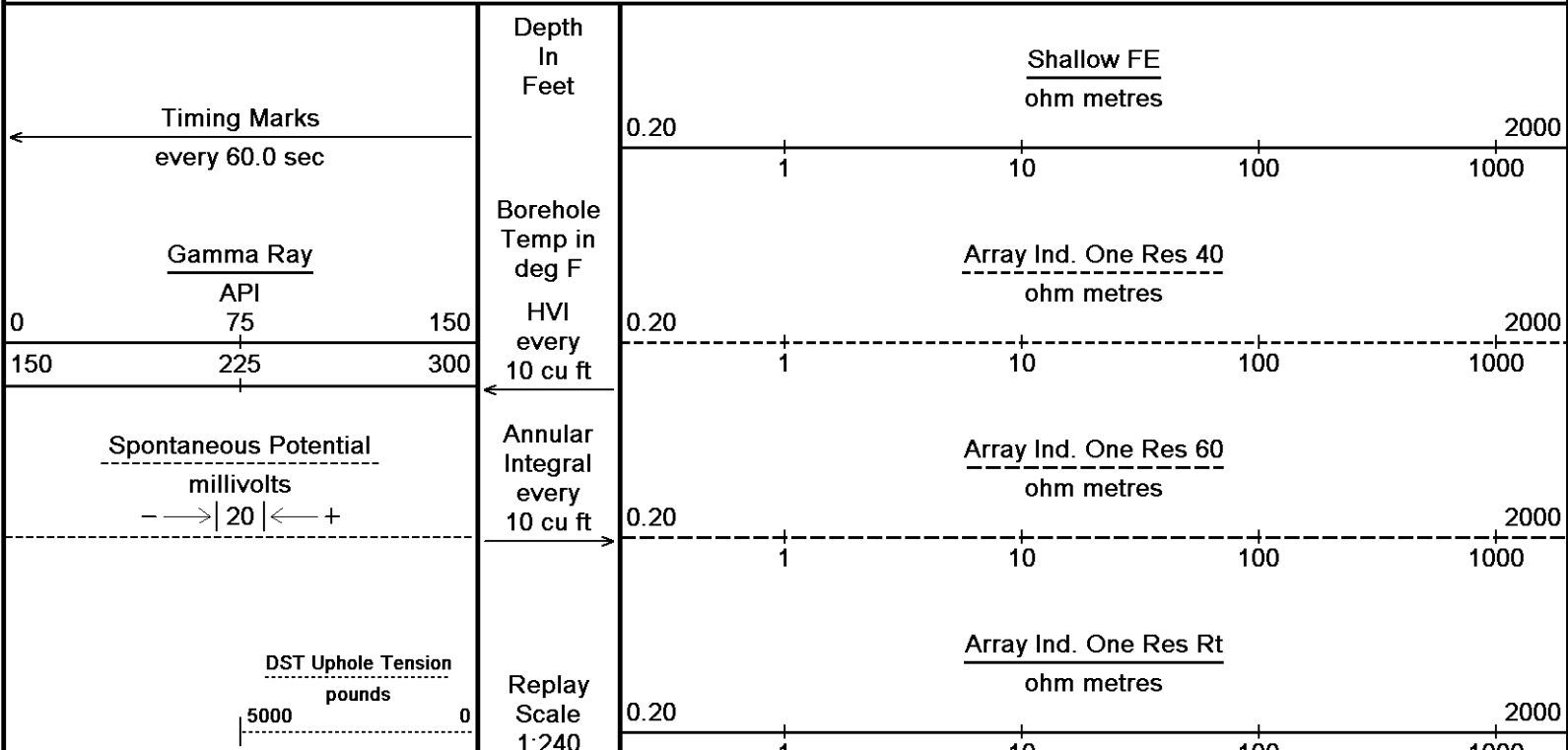


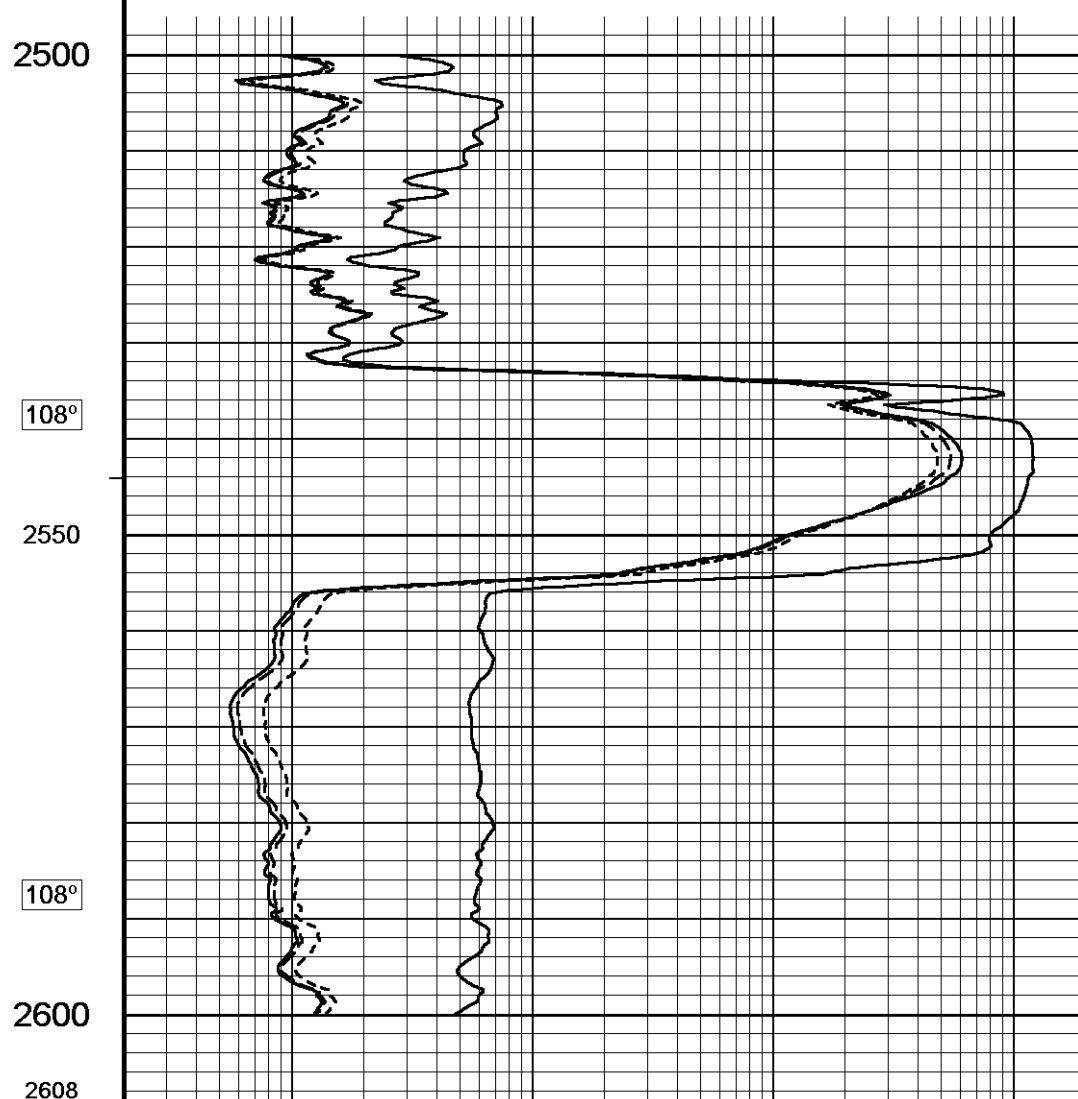
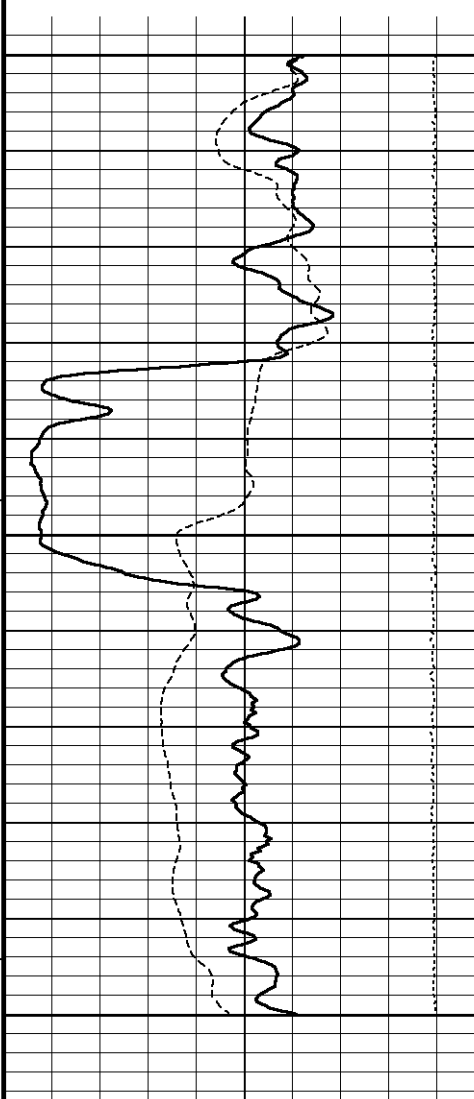
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↑ 2 INCH MAIN ↑

↓ 5 INCH MAIN ↓

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Timing Marks every 60.0 sec

Gamma Ray

0	75	150
150	225	300

Spontaneous Potential millivolts

DST Uphole Tension pounds

5000 0

Depth In Feet

Borehole Temp in deg F

HVI every 10 cu ft

Annular Integral every 10 cu ft

Replay Scale 1:240

Shallow FE ohm metres

Array Ind. One Res 40 ohm metres

Array Ind. One Res 60 ohm metres

Array Ind. One Res Rt ohm metres

Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 31-MAY-2013 14:07
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 Recorded on 30-MAY-2013 19:40
 System Versions: Logged with 13.05.9583 Plotted with 13.05.9583

5 INCH MAIN

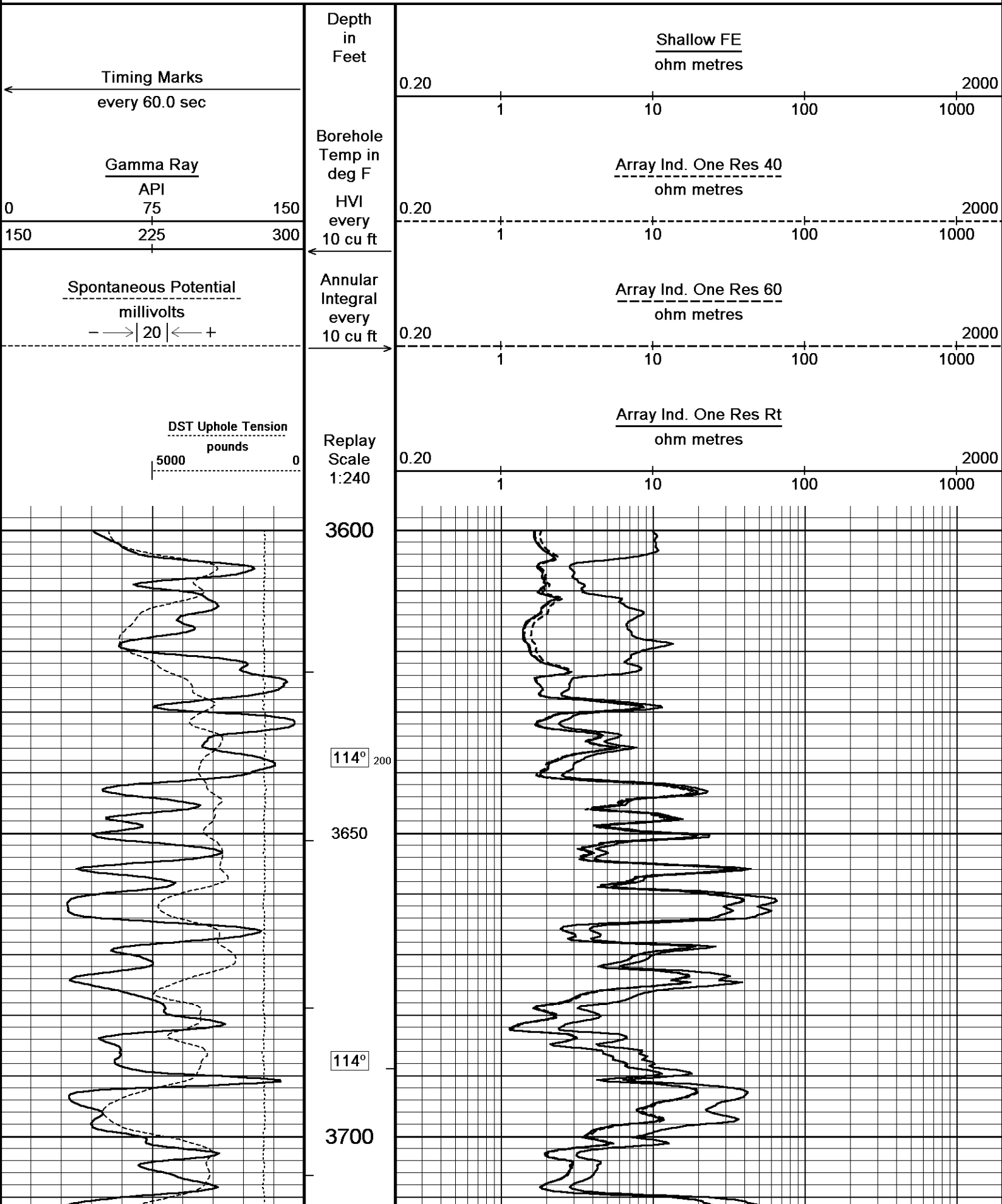
Depth Based Data - Maximum Sampling Increment 10.0cm

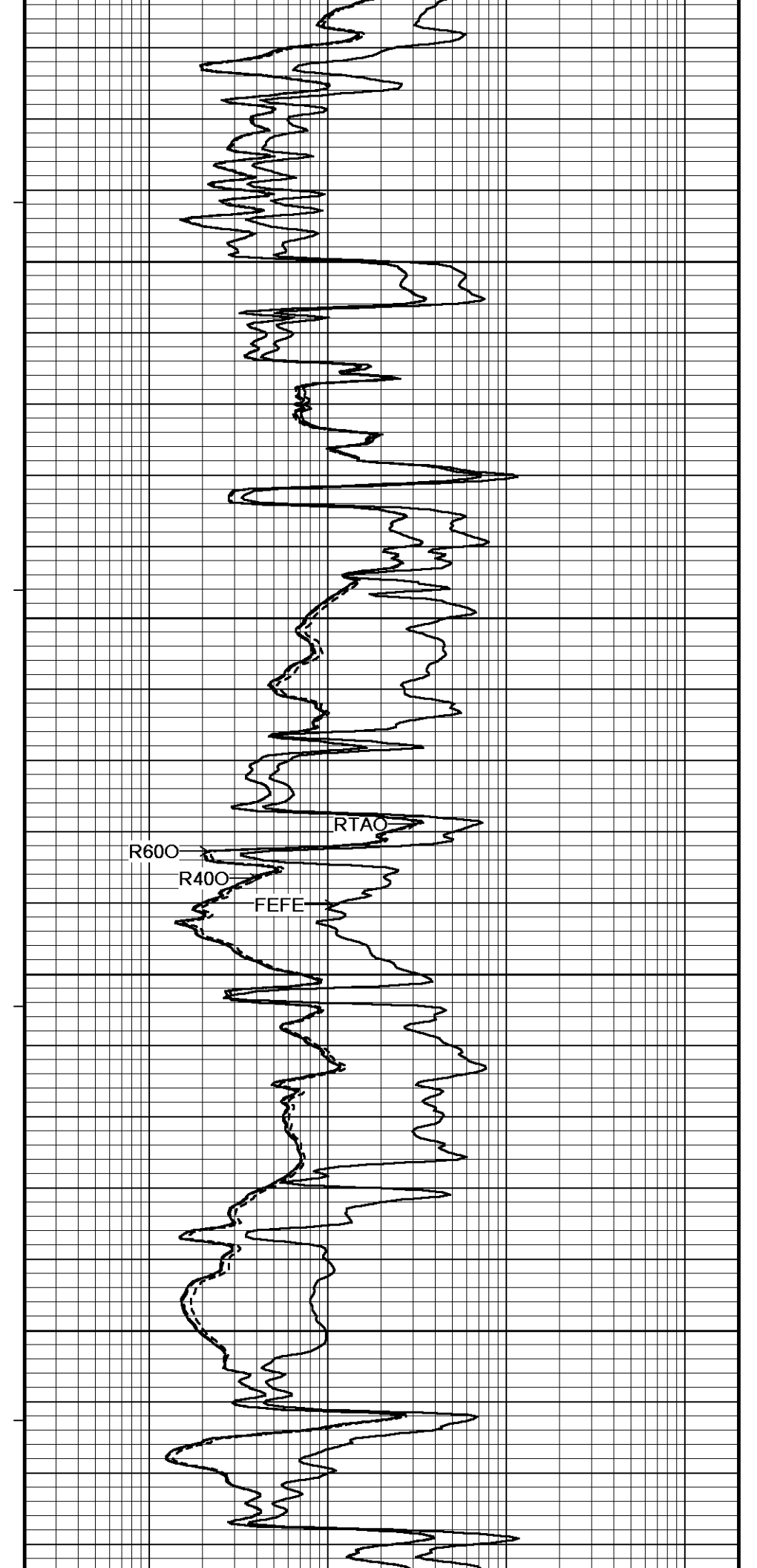
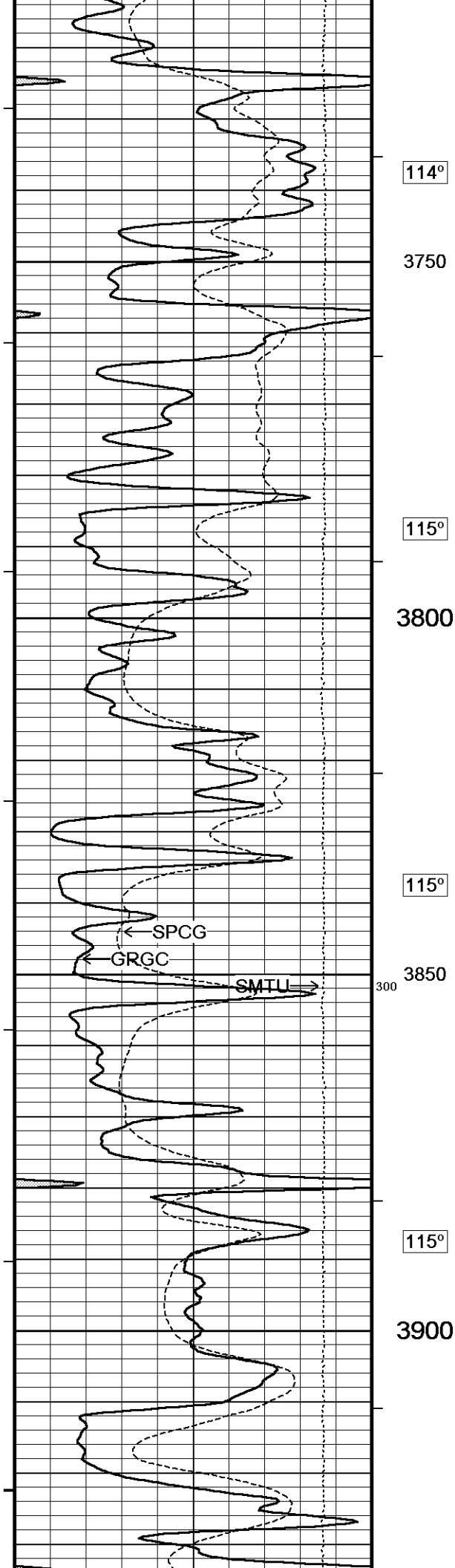
Plotted on 31-MAY-2013 14:07

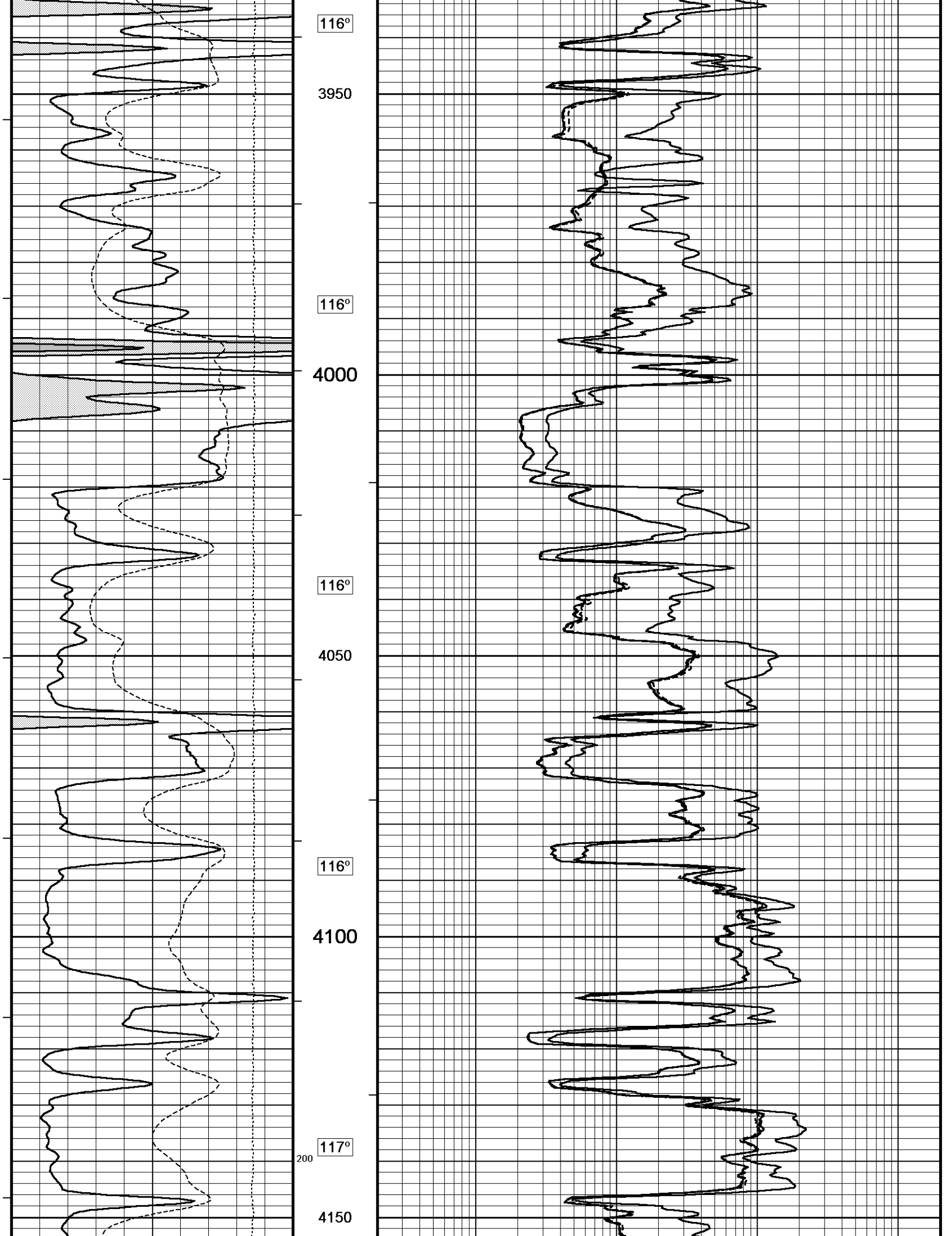
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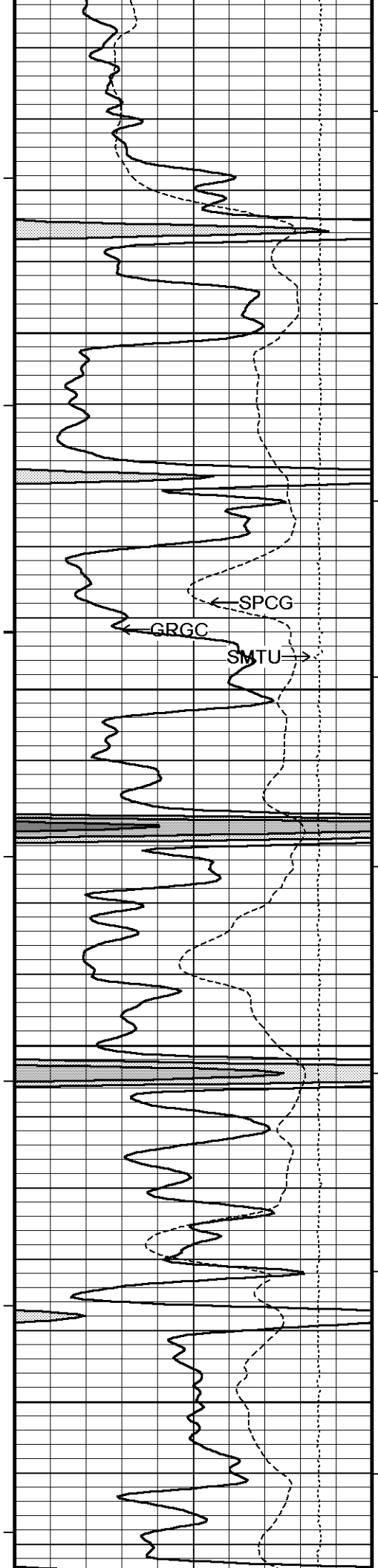
Recorded on 30-MAY-2013 19:40

System Versions: Logged with 13.05.9583 Plotted with 13.05.9583

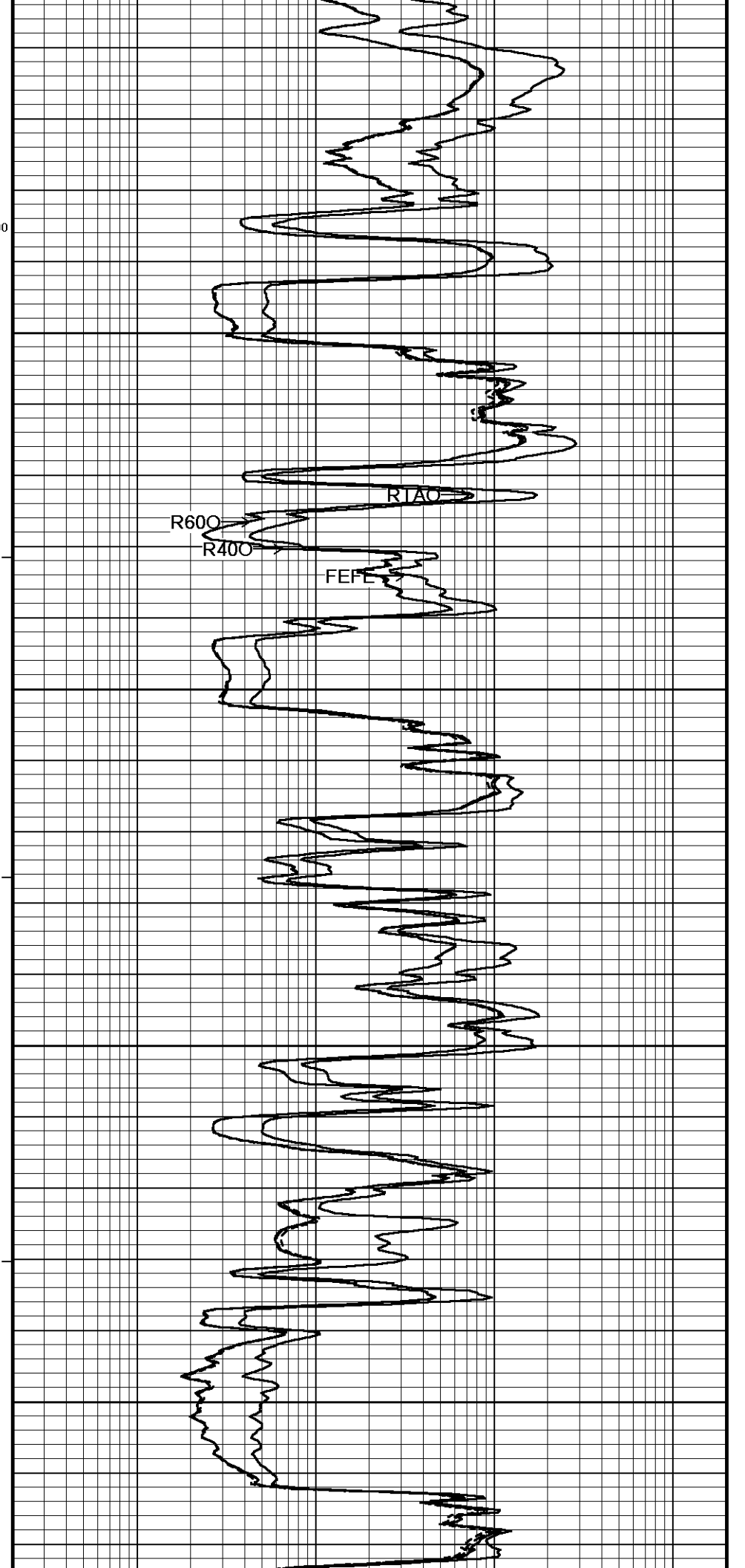




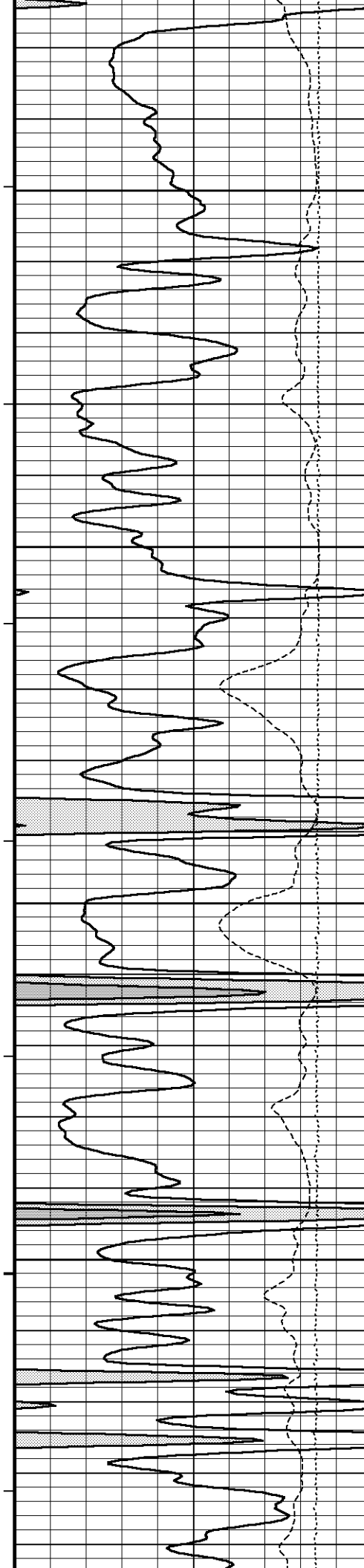




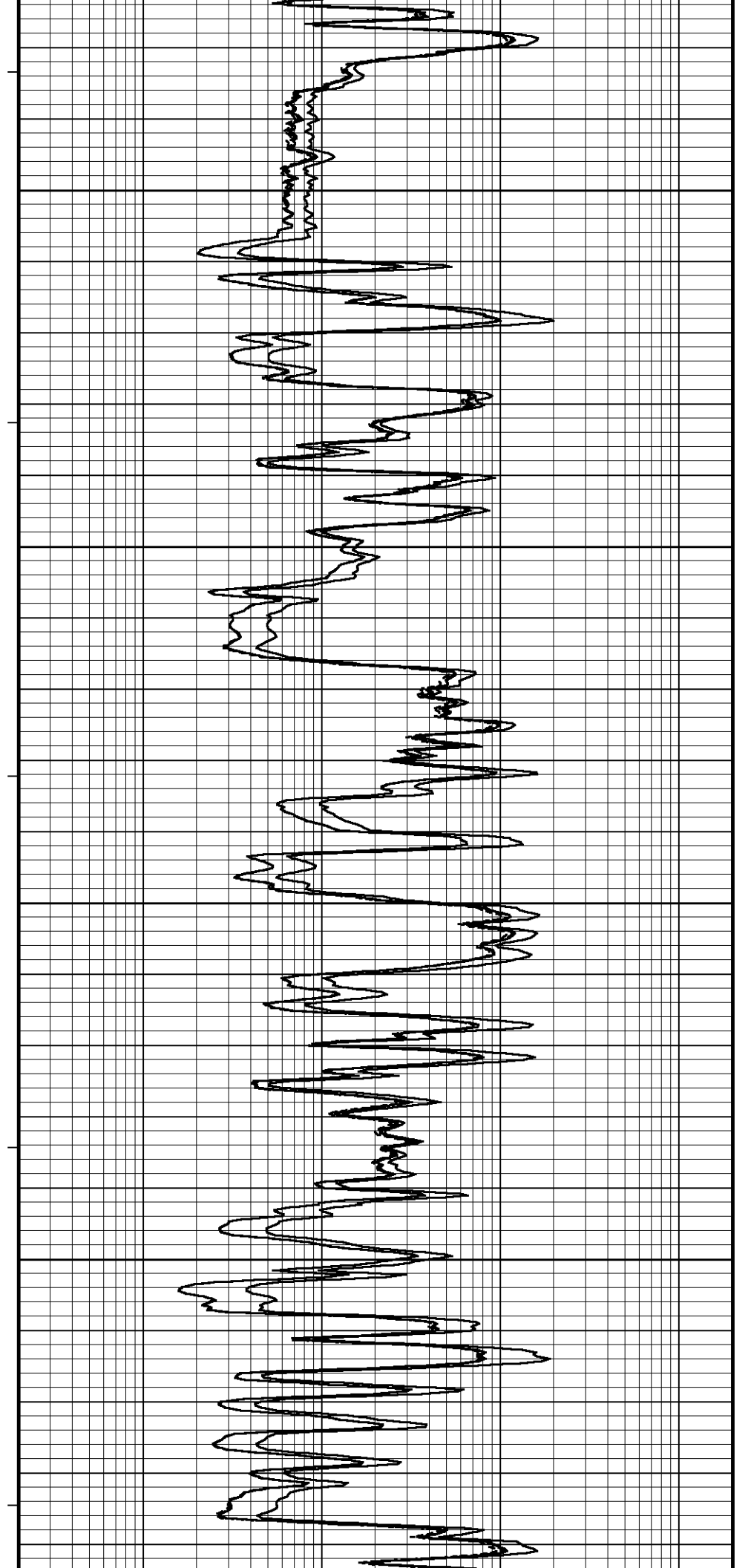
117° 100
4200
117°
4250
117°
4300
118°
4350

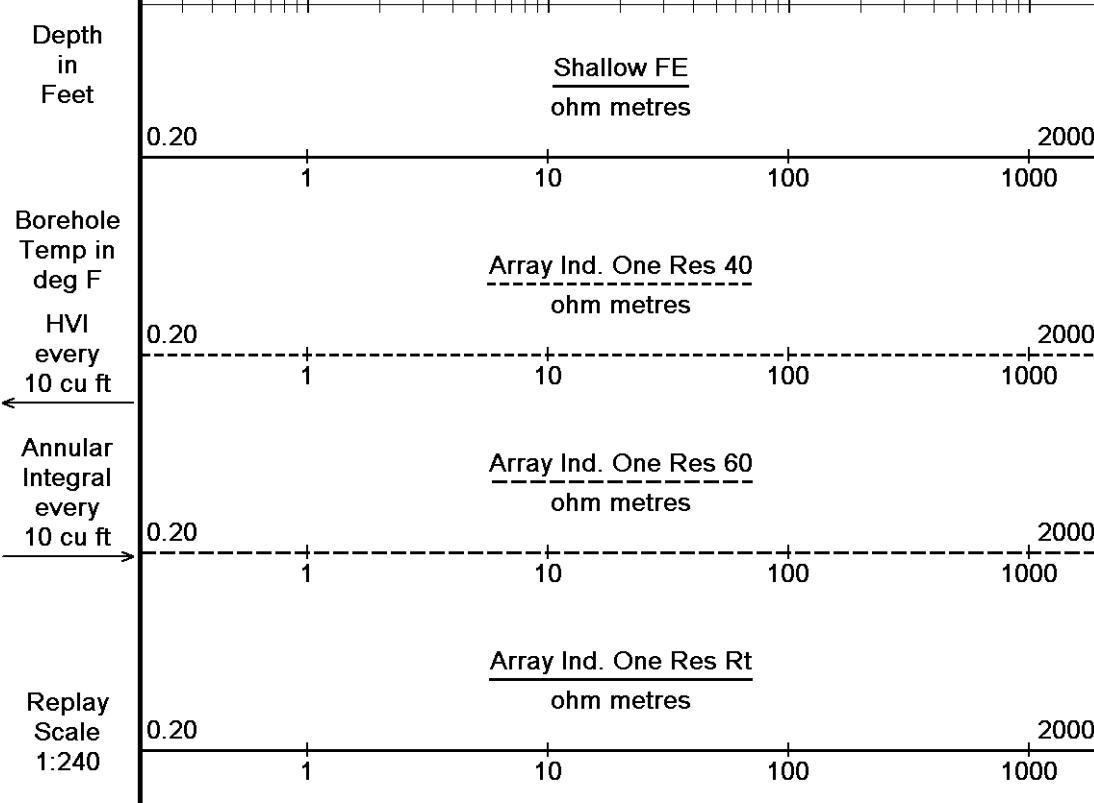
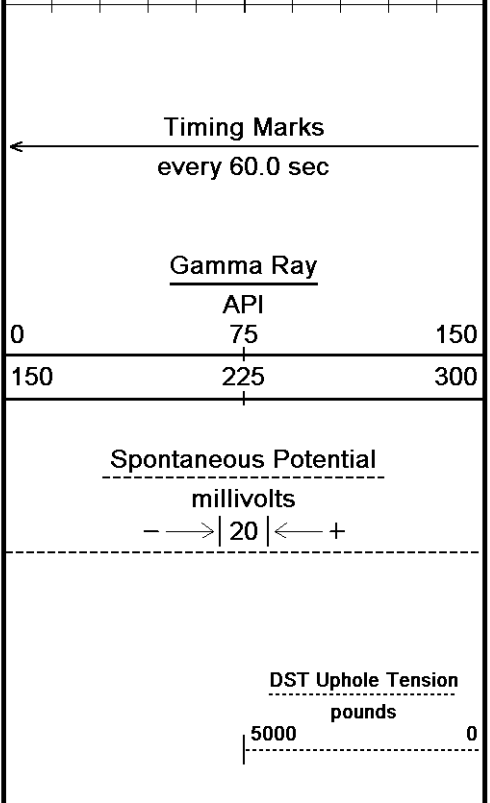
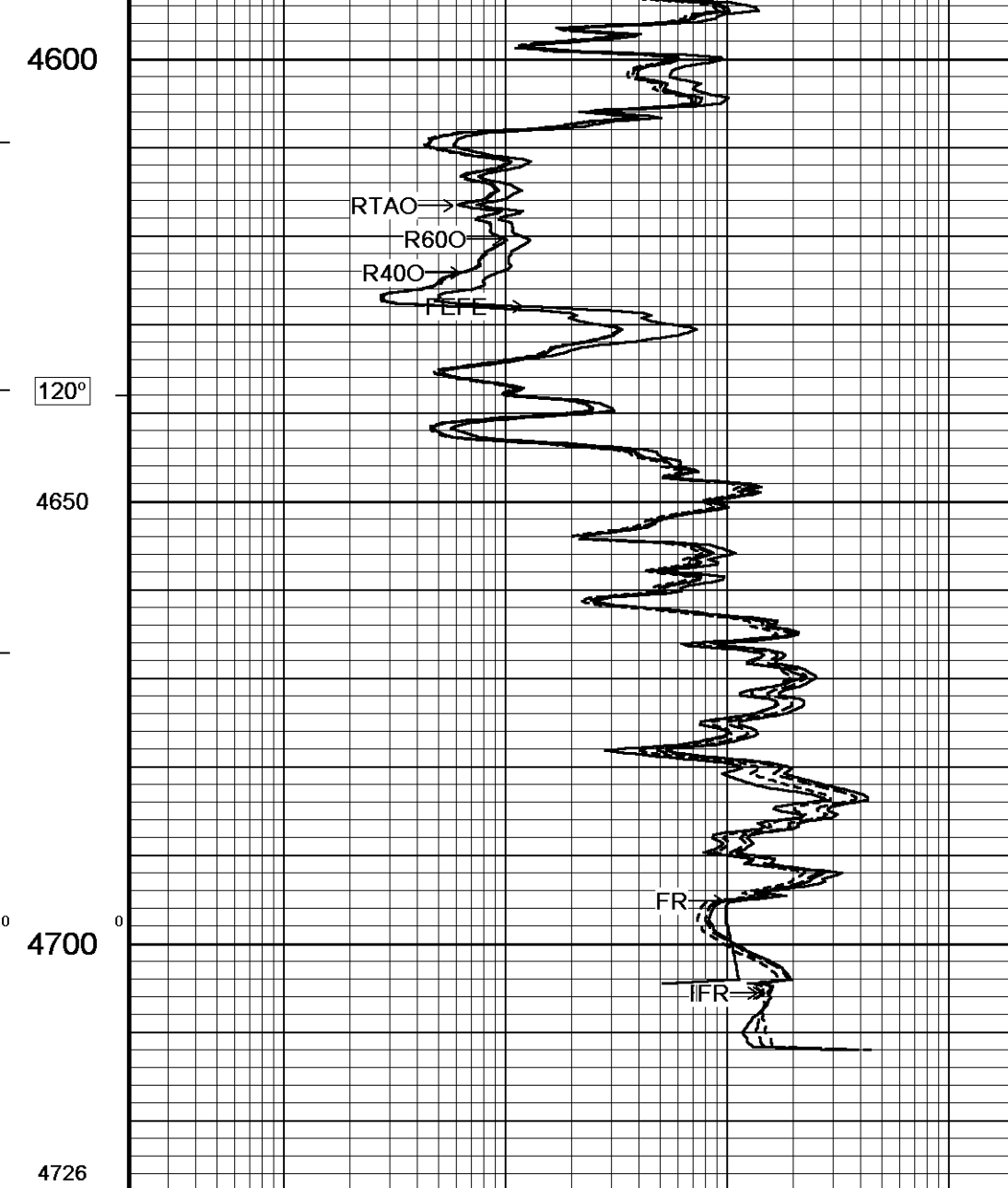
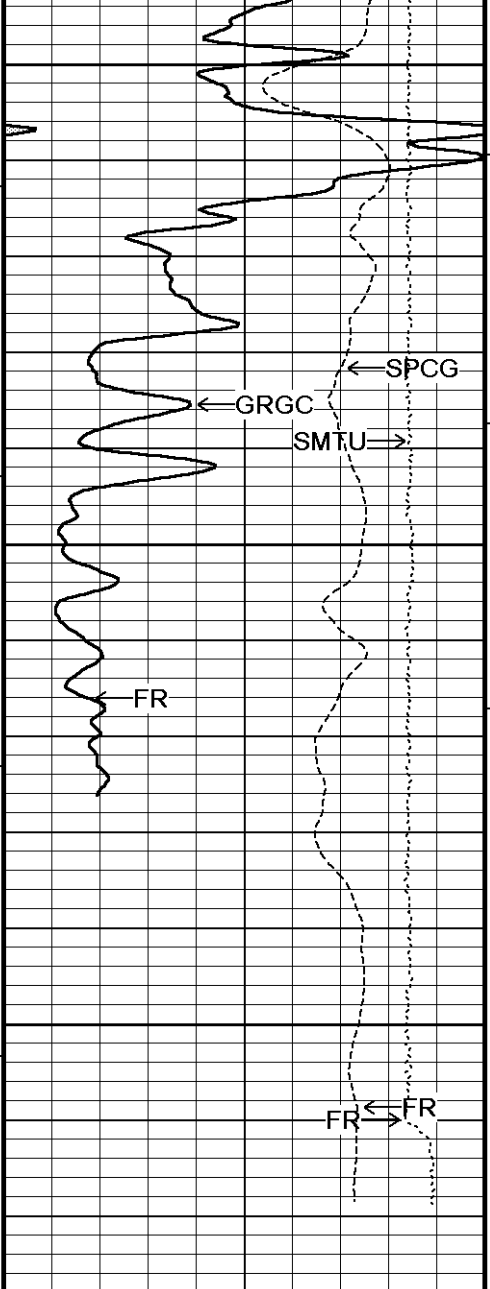


R600
R400
RTAO
FEFE



118°
4400
100
119°
4450
119°
4500
120°
4550
120°





5 INCH MAIN

REPEAT SECTION

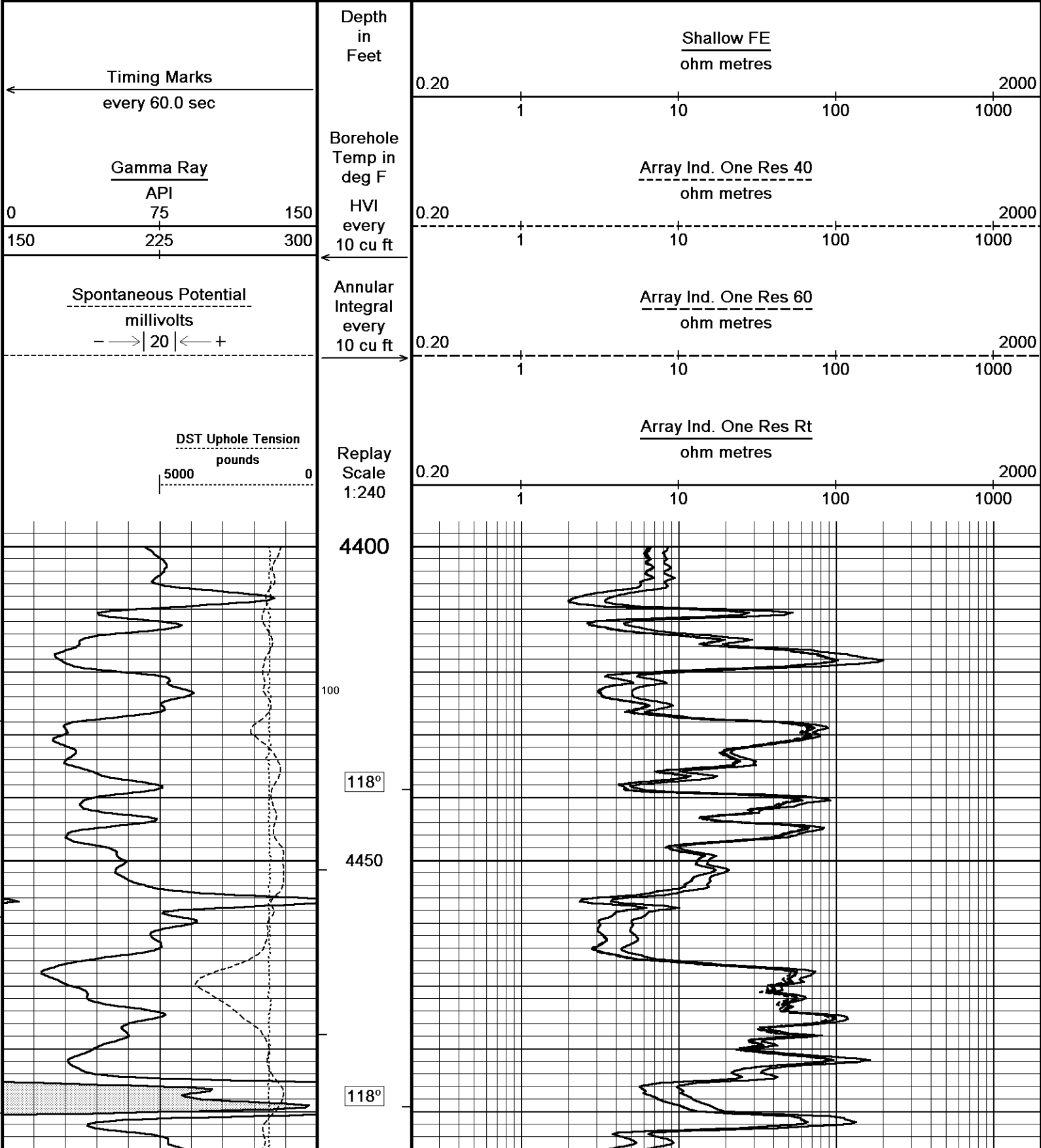
Depth Based Data - Maximum Sampling Increment 10.0cm

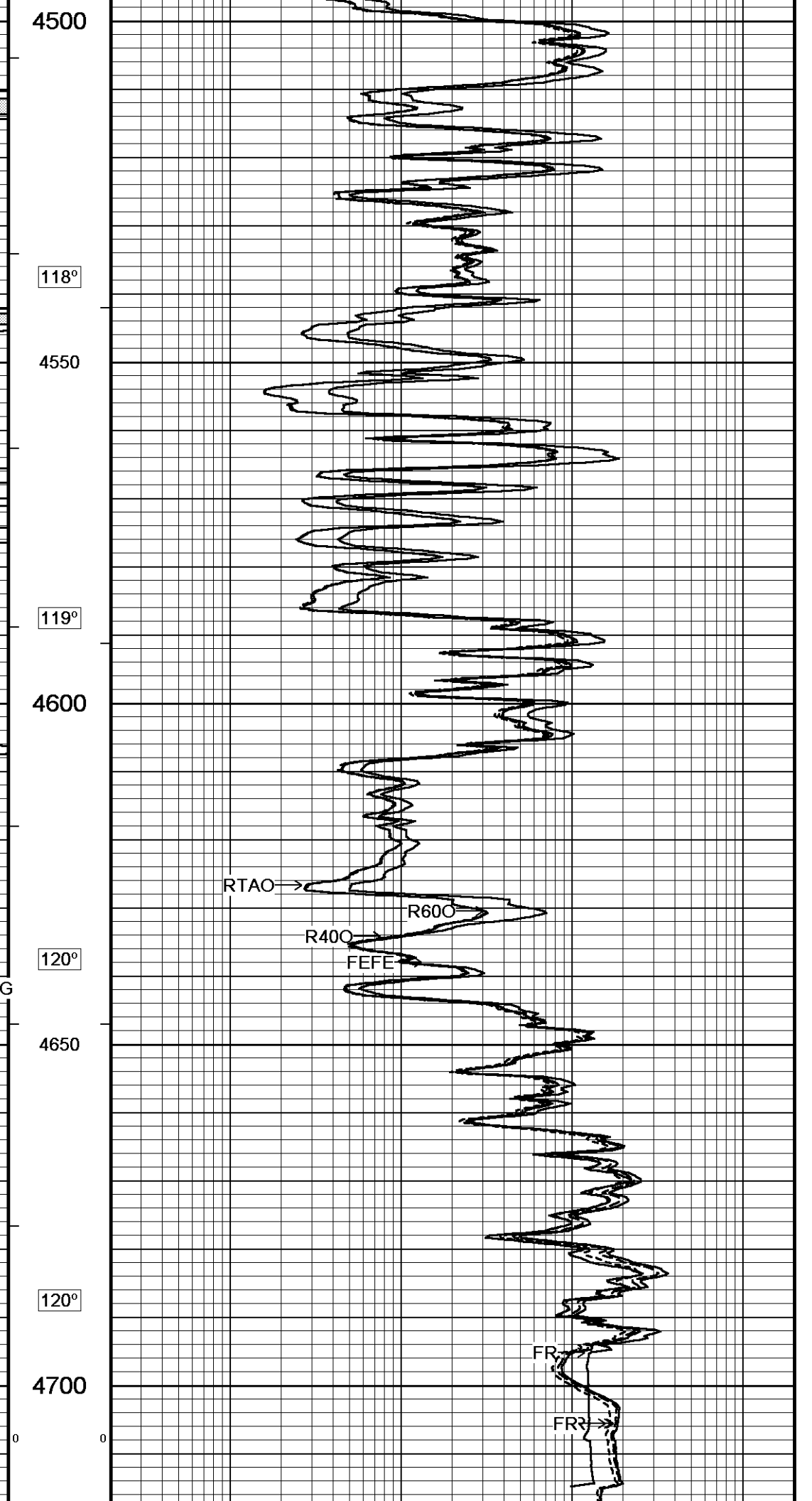
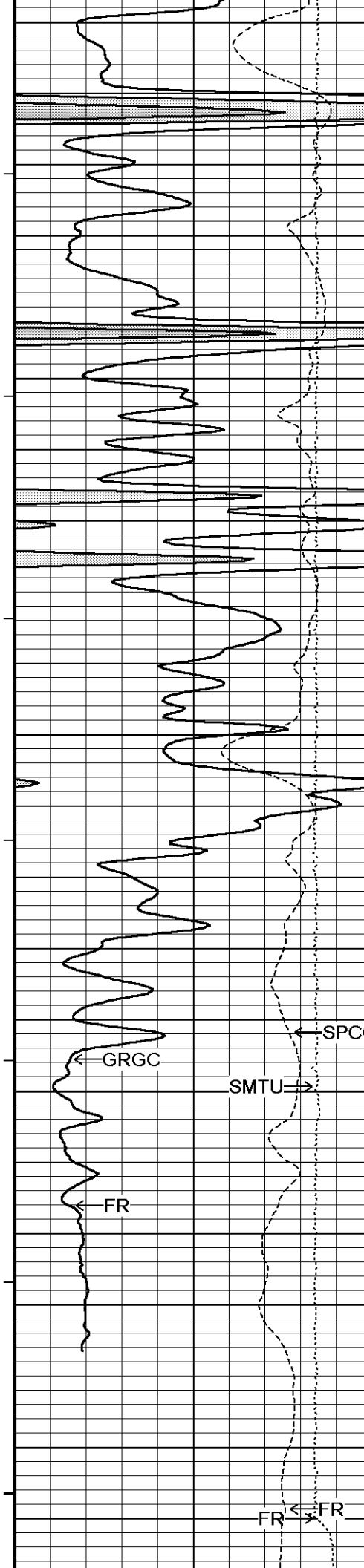
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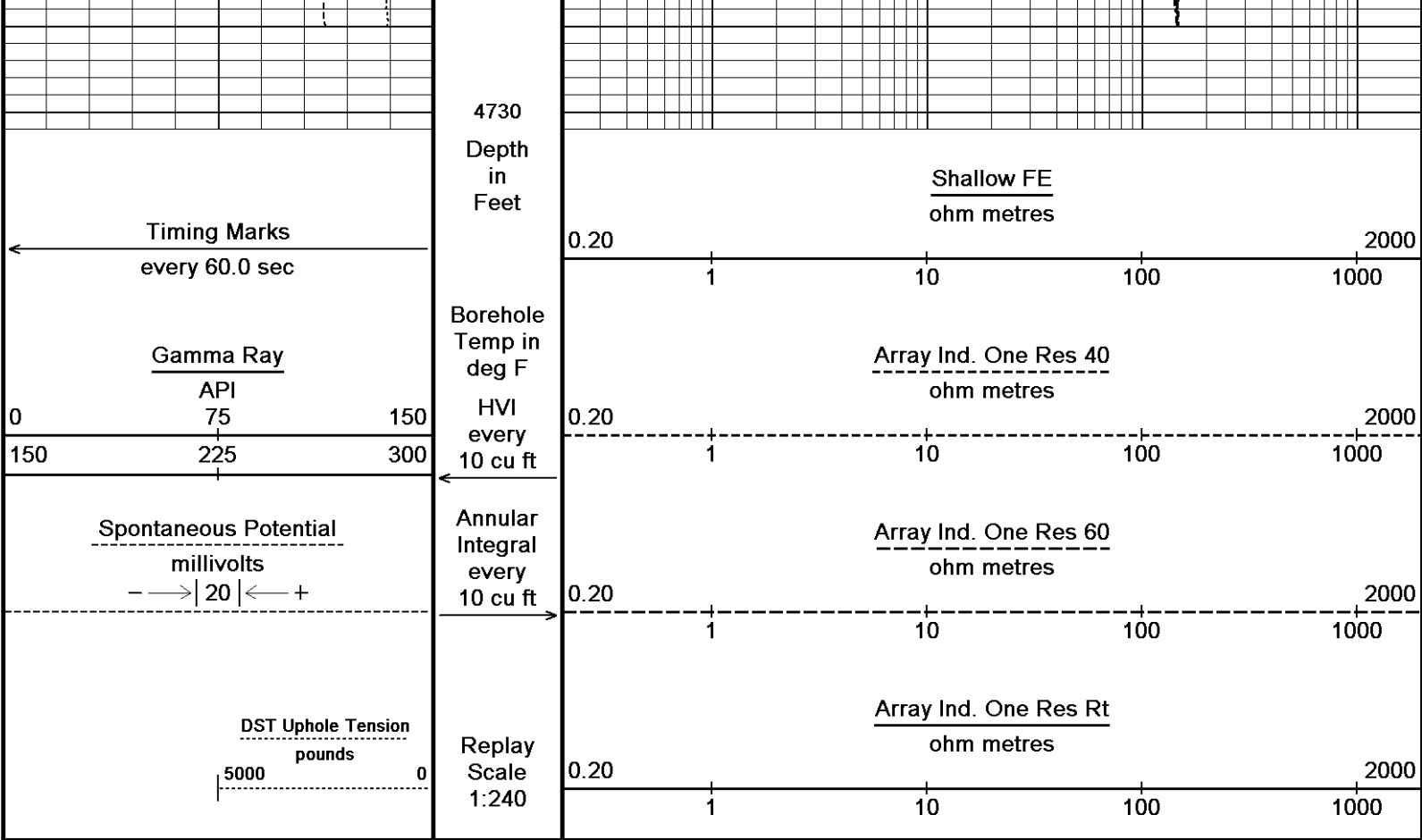
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Recorded on 30-MAY-2013 19:05

System Versions: Logged with 13.05.9583 Plotted with 13.05.9583







Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 31-MAY-2013 14:07
 Filename: C:\Minimus 13.05.9583\Logs\Grand Mesa Janova #2-27\Grand Mesa Janova #2-27_001.dta
 Recorded on 30-MAY-2013 19:05
 System Versions: Logged with 13.05.9583 Plotted with 13.05.9583

↑ REPEAT SECTION ↑

BEFORE SURVEY CALIBRATION
 C:\Minimus 13.05.9583\Logs\Grand Mesa Janova #2-27\Grand Mesa Janova #2-27_002.dta

General Constants All 000 Last Edited on 30-MAY-2013,18:40

General Parameters		
Mud Resistivity	1.520	ohm-metres
Mud Resistivity Temperature	85.000	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	Density Caliper	
Rwa Parameters		
Porosity used	Crossplot Porosity	
Resistivity used	Array Ind. Six Res Rt	
RWA Constant A	1.000	
RWA Constant M	2.000	
SW/APOR Tool Source	0.000	

Down-hole Tension Calibration SMS 0 Field Calibration on 30-MAY-2013 18:09

Reading No	Measured	Calibrated (lbs)
1	14947.71	0.00
2	15585.25	399.00

Gamma Calibration MCG-B 34 Field Calibration on 30-MAY-2013 15:00

	Measured	Calibrated (API)
Background	65	44
Calibrator (Gross)	1145	769
Calibrator (Net)	1080	725

Gamma Constants MCG-B 34

Last Edited on 30-MAY-2013,18:41

Gamma Calibrator Number	GRC38	
Mud Density	1.13	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-B 34

Field Calibration on 29-MAY-2013,14:59

	Measured	Calibrated (mV)
Reference 1	106.4	100.0
Reference 2	-95.3	-100.0

High Resolution Temperature Calibration MCG-B 34

Field Calibration on 29-MAY-2013,14:59

	Measured	Calibrated(Deg F)
Lower	50.00	50.00
Upper	75.00	75.00

High Resolution Temperature Constants MCG-B 34

Last Edited on 29-MAY-2013,14:59

Pre-filter Length	11
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Micro Normal and Micro Inverse Calibration MML-A 16

Base Calibration on 16-MAY-2013 12:07

Field Check on 29-MAY-2013 14:58

Base Calibration

Channel	Measured		Calibrated (ohm-m)	
	Resistor 1	Resistor 2	Resistor 1	Resistor 2
Micro Normal	12.1	60.2	5.0	25.0
Micro Inverse	15.6	78.4	5.0	25.0

Channel	Base Check (ohm-m)	Field Check (ohm-m)
Micro Normal	62.9	62.9
Micro Inverse	48.2	48.2

Micro Normal and Micro Inverse Constants MML-A 16

Last Edited on 29-MAY-2013,14:57

Pad Type	8-12 in Soft Rubber Inflatable 006-9011-159
Micro Normal K Factor	1.0000
Micro Inverse K Factor	1.0000
Standoff Offset	N/A inches

Caliper Calibration MML-A 16

Base Calibration on 16-MAY-2013 11:56

Field Calibration on 29-MAY-2013 14:58

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	14258	5.98
2	17442	7.97
3	20671	9.86
4	24432	11.92
5	0	0.00
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
6.09	5.98

Neutron Calibration MDN-A.B 65

Base Calibration on 22-MAY-2013 14:17

Field Check on 29-MAY-2013 15:12

Base Calibration

Ratio	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	3104	96	3714	110
	32.242		33.764	

Field Calibrator at Base	Calibrated (cps)	1657	2415
Ratio		0.686	
Field Check	Calibrated (cps)	1660	2408
Ratio		0.698	

Neutron Constants MDN-A.B 65

Last Edited on 29-MAY-2013,15:07

Neutron Source Id	PN-521		
Neutron Jig Number	5824NE		
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	Constant Value		
Temperature	68.00	degrees F	
Mud Salinity	0.00	kppm	
Salinity Correction	Not Applied		
Formation Fluid Salinity Source	Constant Value		
Formation Fluid Salinity	0.00	kppm	
Barite Mud Correction	Not Applied		

FE Calibration MFE-B.J 352

Base Calibration on 16-MAY-2013 15:06

Field Check on 29-MAY-2013 14:44

Base Calibration			
	Measured	Calibrated (ohm-m)	
Reference 1	0.0	0.0	
Reference 2	963.9	126.8	
Base Check		281.3	
Field Check		281.3	

FE Constants MFE-B.J 352

Last Edited on 29-MAY-2013,14:42

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	

High Resolution Temperature Calibration MAI-A.A 45

Field Calibration on 29-MAY-2013,14:59

	Measured	Calibrated(Deg F)	
Lower	50.00	50.00	
Upper	75.00	75.00	

High Resolution Temperature Constants MAI-A.A 45

Last Edited on 29-MAY-2013,14:59

Pre-filter Length	11
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Induction Calibration MAI-A.A 45

Base Calibration on 21-MAY-2013,16:47

Field Check on 29-MAY-2013 14:41

Base Calibration				
Test Loop Calibration		Measured	Calibrated (mmho/m)	
Channel	Low	High	Low	High
1	14.4	472.6	9.3	966.2
2	5.7	374.0	7.6	821.4
3	3.4	261.2	5.2	566.0
4	2.5	133.9	2.6	279.2
Array Temperature	0.0		Deg F	
Channel	Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High

	Low	High	Low	High
1			19.8	3853.7
2			32.1	3630.5
3			28.9	3050.2
4			18.4	2079.4
Deep			16.2	1911.5
Medium			42.7	4061.7
Shallow			50.1	5485.2
Array Temperature			82.8	Deg F

Induction Constants MAI-A.A 45

Last Edited on 30-MAY-2013,08:26

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		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.		Borehole Temp. Unfilt.	
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	

Caliper Calibration MPD-B 31

Base Calibration on 19-MAY-2013 17:48

Field Calibration on 29-MAY-2013 14:51

Base Calibration		
Reading No	Measured	Calibrator Size (in)
1	17088	3.99
2	25888	5.98
3	34607	7.97
4	42944	9.86
5	52301	11.92
6	N/A	N/A
Field Calibration		
	Measured Caliper (in)	Actual Caliper (in)
	5.92	5.98

Photo Density Calibration MPD-B 31

Base Calibration on 19-MAY-2013 18:09

Field Check on 29-MAY-2013 14:49

Density Calibration					
Base Calibration		Measured		Calibrated (sdu)	
	Near	Far	Near	Far	
Reference 1	45338	23124	59556	30836	

Reference 2 18546 1915 24941 2541

Field Check at Base

677.6 838.3

Field Check

680.4 836.2

PE Calibration

Base Calibration

Measured

Calibrated

	WS	WH	Ratio	Ratio
Background	125	601		
Reference 1	19261	45226	0.429	0.371
Reference 2	5568	18464	0.305	0.272

Field Check at Base

125.4 601.0

Field Check

124.8 603.7

Density Constants MPD-B 31

Last Edited on 30-MAY-2013,18:41

Density Source Id	254	
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	1.13	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:\Minimus 13.05.9583\Logs\Grand Mesa Janova #2-27\Grand Mesa Janova #2-27_002.dta

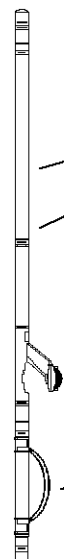
3/8" Triple Cone Cable Head (MCB C A)
MCB-C.A 5 LG: 1.58 ft WT: 15.4 lb OD: 2.24 in

Compact Comms Gamma
MCG-B 34 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Micro-log
MML-A 16 LG: 7.97 ft WT: 81.6 lb OD: 2.24 in

Compact Neutron
MDN-A.B 65 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper



42.87 ft GRGC - Gamma Ray
39.96 ft CGXT - MCG External Temperature

33.24 ft MINV - Micro-inverse
33.24 ft MNRL - Micro-normal
34.24 ft MLTC - MML Caliper

28.45 ft NPRL - Limestone Neutron Por.

21.21 ft AVOL - Annular Volume

MPD-B 31 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

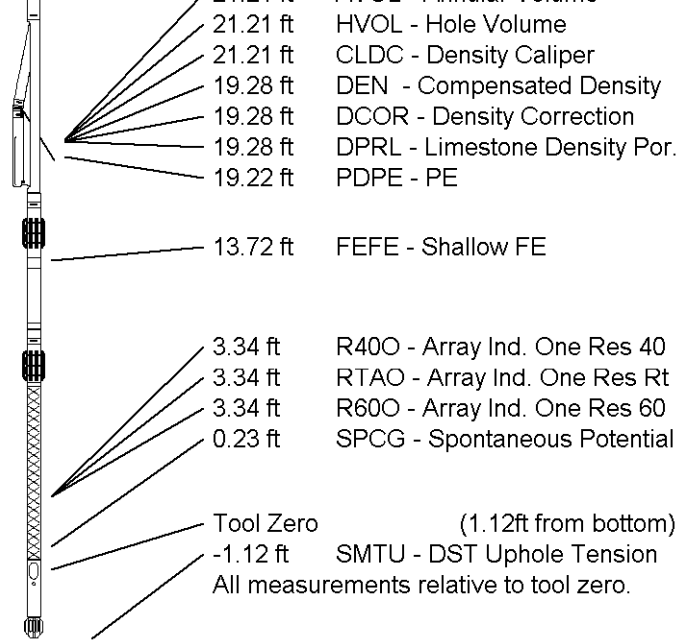
Compact Focused Electric

MFE-B.J 352 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

Compact Induction

MAI-A.A 45 LG: 11.79 ft WT: 48.5 lb OD: 2.24 in

Total Length: 50.72 ft Weight: 399.0 lb



COMPANY GRAND MESA OPERATING COMPANY
WELL J A NOVA #2-27
FIELD WILDCAT
PROVINCE/COUNTY LOGAN
COUNTRY/STATE U.S.A. / KANSAS

Elevation Kelly Bushing	3024.00	feet	First Reading	4707.00	feet
Elevation Drill Floor	3023.00	feet	Depth Driller	4715.00	feet
Elevation Ground Level	3015.00	feet	Depth Logger	4710.00	feet



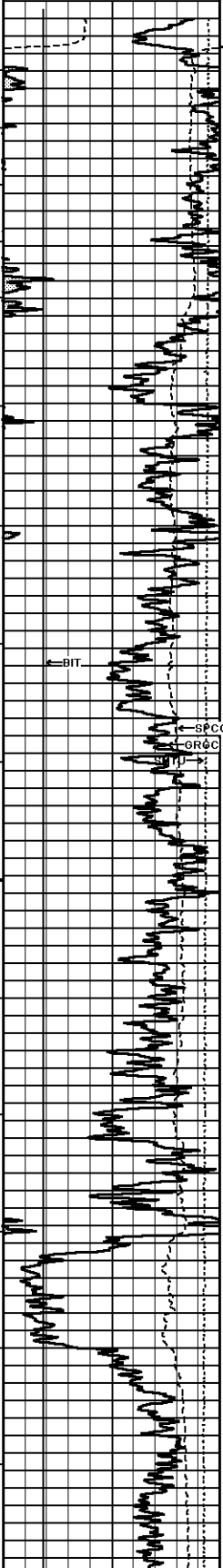
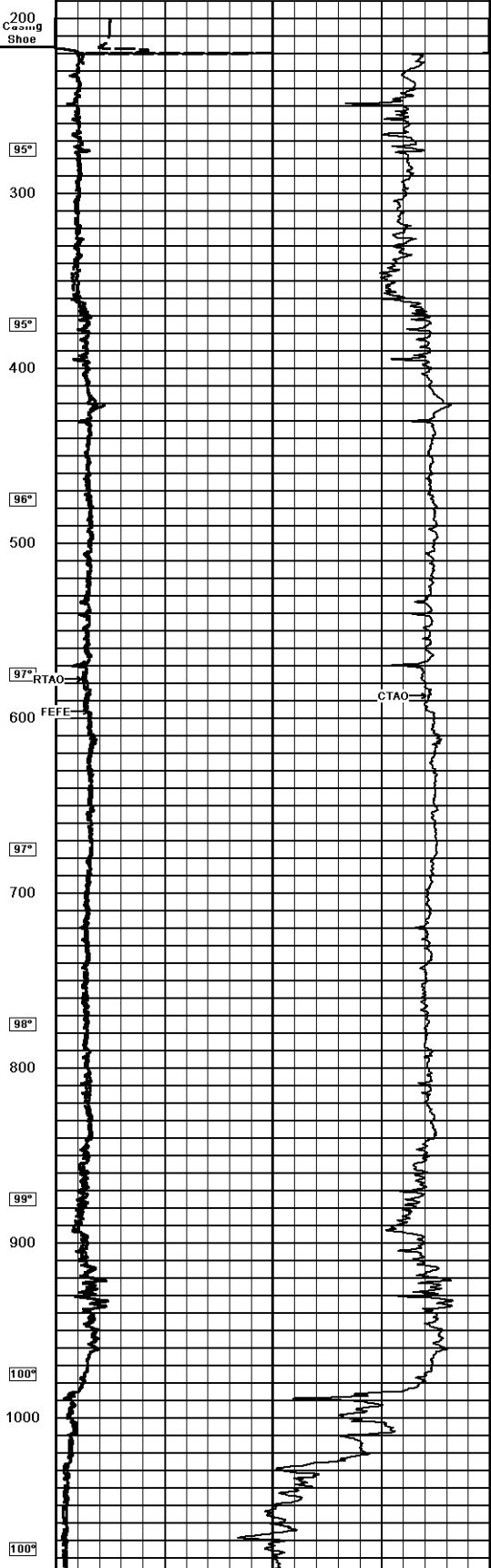
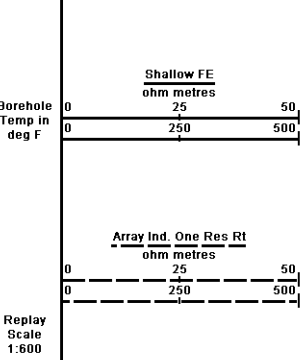
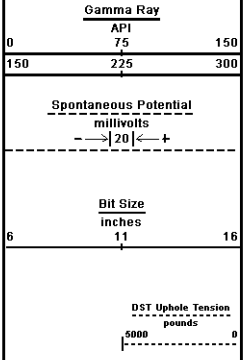
**ARRAY INDUCTION
 SHALLOW FOCUSED
 ELECTRIC LOG**

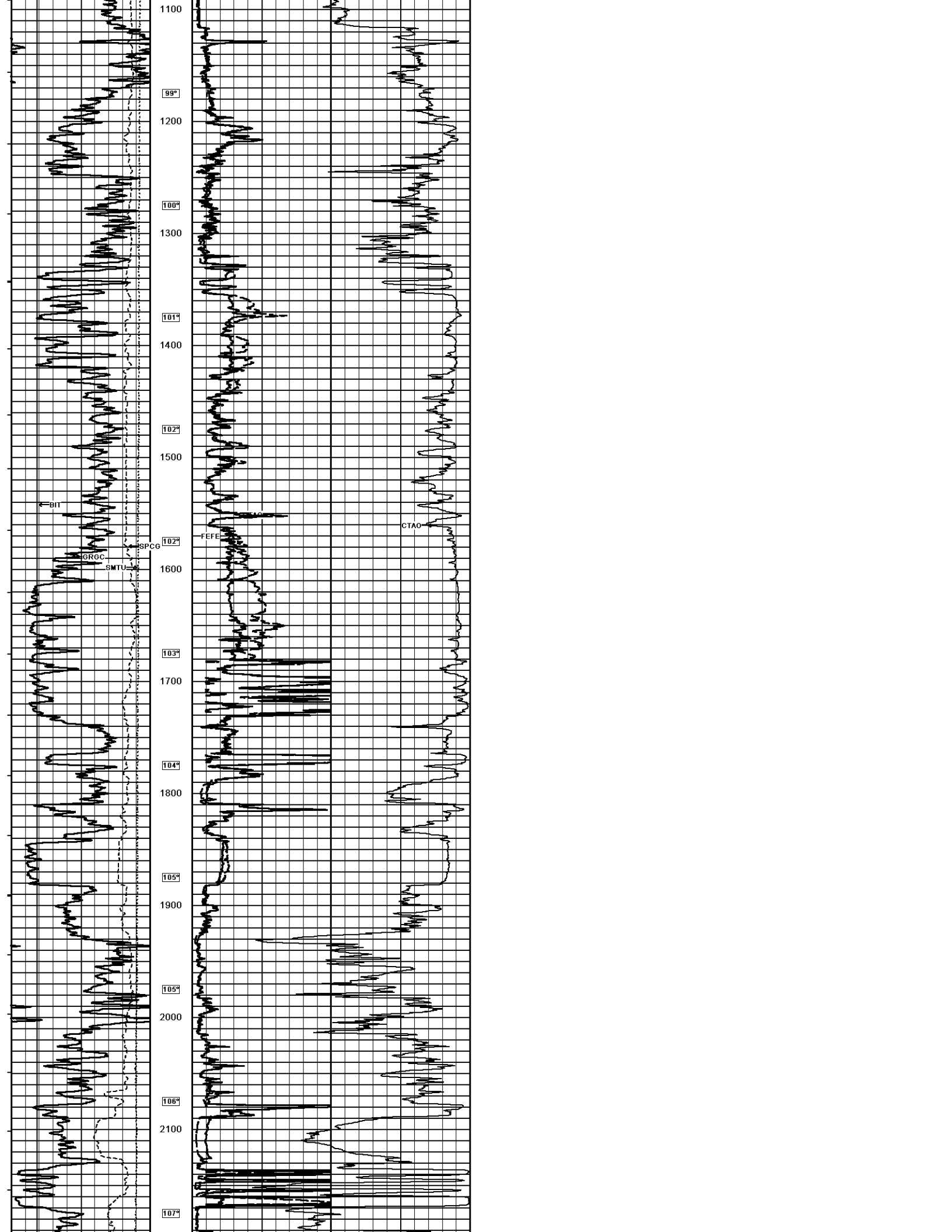
Weatherford[®]

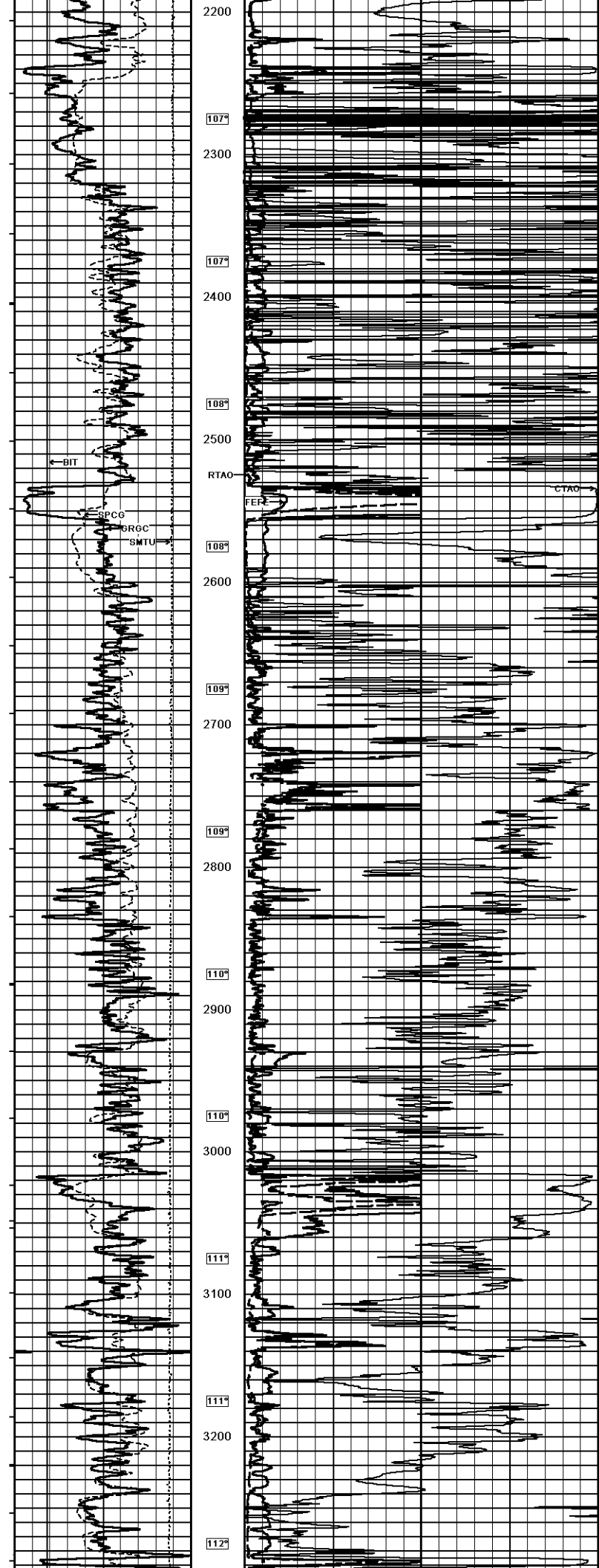
Weatherford		ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG	
COMPANY GRAND MESA OPERATING COMPANY WELL J A NOVA #2-27 FIELD WILDCAT PROVINCE/COUNTY LOGAN COUNTRY/STATE U.S.A. / KANSAS LOCATION 2420' ENL & 253' FEL SEC 27 T2S R3E G1/4 SW/4 15-109-2103 MML Permit Number 15-109-2103 Permit Holder O.L. Elevation 3015 feet Log Measured From 159 Drilling Measured From K.B. @ 9 FEET Date 30-MAY-2013		Run Number ONE Service Order 3539060 Depth Driller 4715.00 feet Depth Logger 4710.00 feet First Reading 4707.00 feet Last Reading 216.00 feet Casing Driller 216.00 feet Casing Logger 216.00 feet Bit Size 7.875 inches Hole Fluid Type CHEMICAL Density/Viscosity 9.50 lb/USG 54.00 CP PH/Fluid Loss 9.50 8.80 m3/min FLOWLINE Sample Source 1.52 @ 95.0 ohm-m Rm @ Measured Temp 1.22 @ 95.0 ohm-m Rm @ Measured Temp 1.82 @ 95.0 ohm-m Rm @ BHT 1.08 @ 120.0 ohm-m Source Rm/Rinc CALC Time Since Circulation 4 HOURS Max. Recorded Temp 120.00 deg F Equipment/Base 13067 LIB Recorded By W STAMBUKH Witnessed By JOHN COLOSINITH JOB # 1813-197	
Run Number ONE Service Order 3539060 Depth Driller 4715.00 feet Depth Logger 4710.00 feet First Reading 4707.00 feet Last Reading 216.00 feet Casing Driller 216.00 feet Casing Logger 216.00 feet Bit Size 7.875 inches Hole Fluid Type CHEMICAL Density/Viscosity 9.50 lb/USG 54.00 CP PH/Fluid Loss 9.50 8.80 m3/min FLOWLINE Sample Source 1.52 @ 95.0 ohm-m Rm @ Measured Temp 1.22 @ 95.0 ohm-m Rm @ Measured Temp 1.82 @ 95.0 ohm-m Rm @ BHT 1.08 @ 120.0 ohm-m Source Rm/Rinc CALC Time Since Circulation 4 HOURS Max. Recorded Temp 120.00 deg F Equipment/Base 13067 LIB Recorded By W STAMBUKH Witnessed By JOHN COLOSINITH JOB # 1813-197		Run Number ONE Service Order 3539060 Depth Driller 4715.00 feet Depth Logger 4710.00 feet First Reading 4707.00 feet Last Reading 216.00 feet Casing Driller 216.00 feet Casing Logger 216.00 feet Bit Size 7.875 inches Hole Fluid Type CHEMICAL Density/Viscosity 9.50 lb/USG 54.00 CP PH/Fluid Loss 9.50 8.80 m3/min FLOWLINE Sample Source 1.52 @ 95.0 ohm-m Rm @ Measured Temp 1.22 @ 95.0 ohm-m Rm @ Measured Temp 1.82 @ 95.0 ohm-m Rm @ BHT 1.08 @ 120.0 ohm-m Source Rm/Rinc CALC Time Since Circulation 4 HOURS Max. Recorded Temp 120.00 deg F Equipment/Base 13067 LIB Recorded By W STAMBUKH Witnessed By JOHN COLOSINITH JOB # 1813-197	

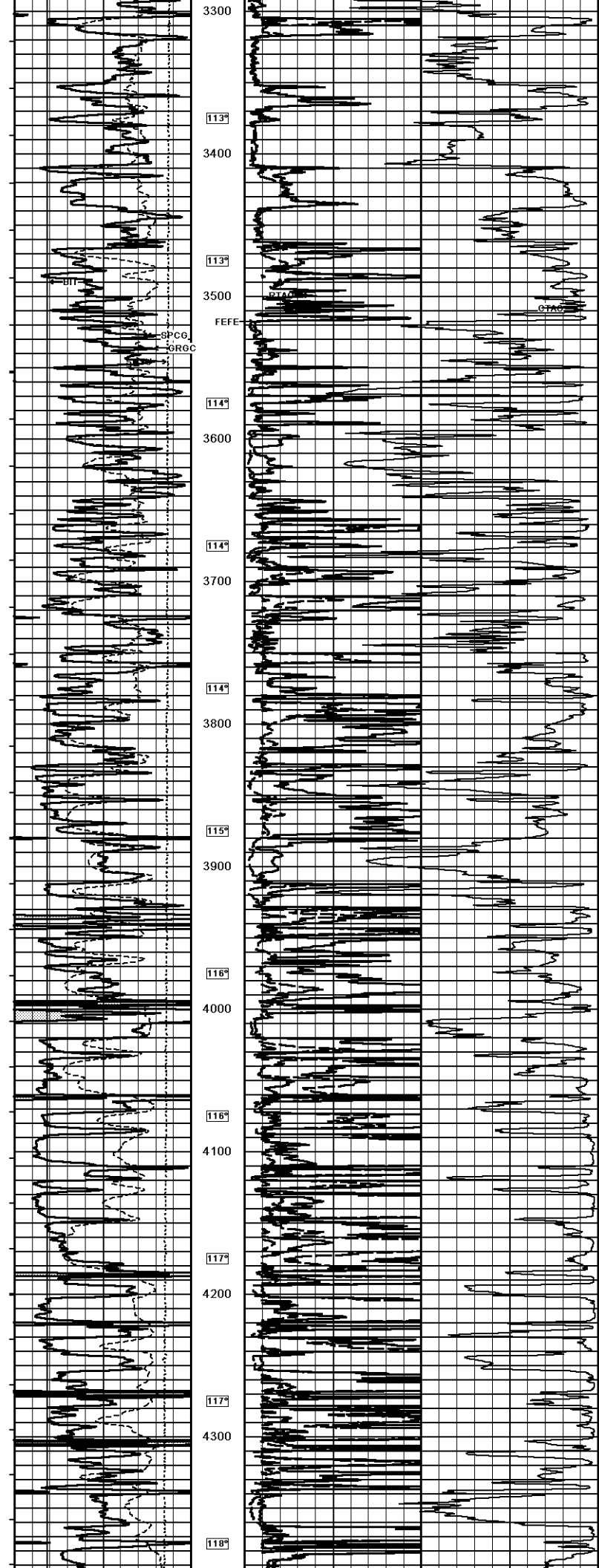
1 INCH MAIN
 Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 31-MAY-2013 14:07
 Filename: C:\Minimus 13.05.9583\Logs\Grand Mesa Janova #2-27\Grand Mesa Janova #2-27_002.dta
 Recorded on 30-MAY-2013 19:40
 System Versions: Logged with 13.05.9583 Plotted with 13.05.9583

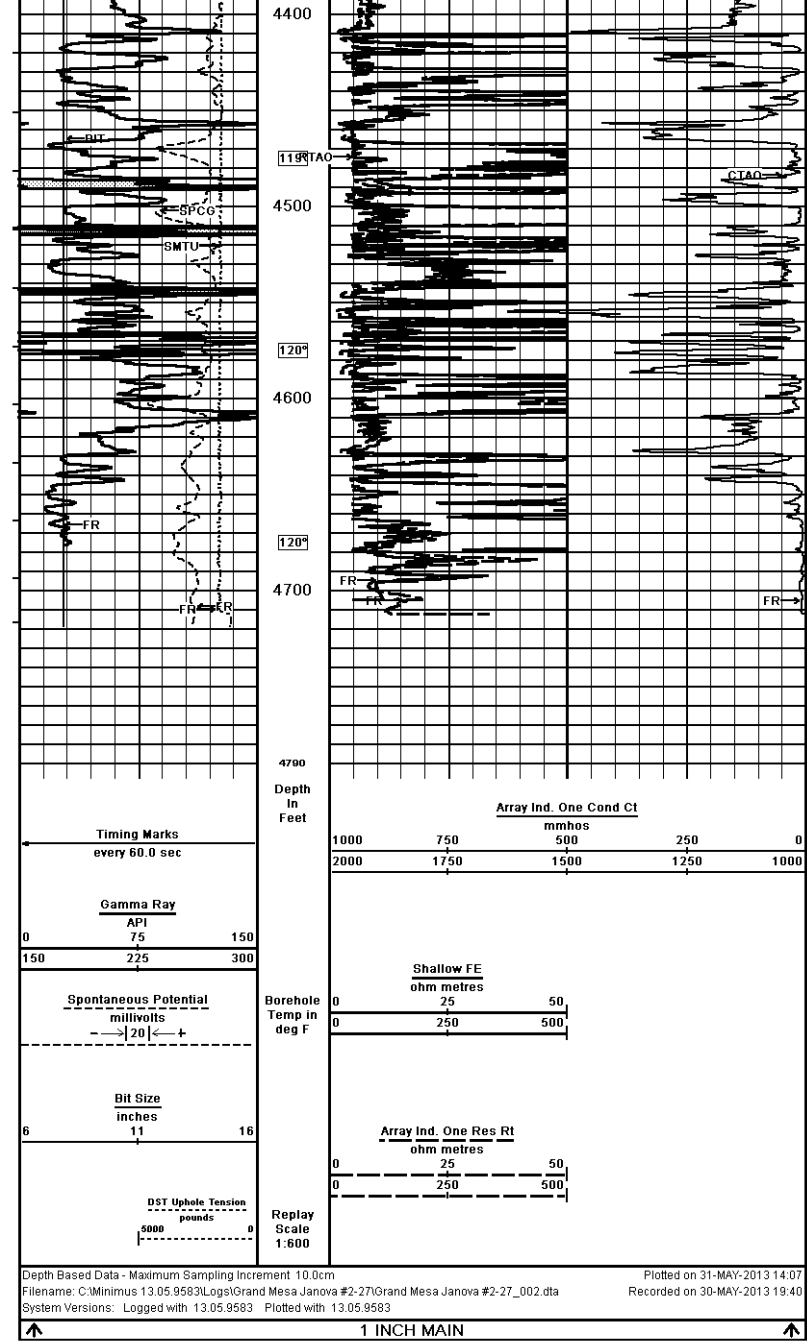
Timing Marks every 60.0 sec	Depth In Feet	Array Ind. One Cond Ct				
		mmhos				
		1000	750	500	250	0
		2000	1750	1500	1250	1000












Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 31-MAY-2013 14:07
 Filename: C:\Minimus 13.05.9583\Logs\Grand Mesa Janova #2-27\Grand Mesa Janova #2-27_002.dta
 Recorded on 30-MAY-2013 19:40
 System Versions: Logged with 13.05.9583 Plotted with 13.05.9583

1 INCH MAIN

COMPANY	GRAND MESA OPERATING COMPANY			
WELL	J A NOVA #2-27			
FIELD	WILDCAT			
PROVINCE/COUNTY	LOGAN			
COUNTRY/STATE	U.S.A. / KANSAS			
Elevation Kelly Bushing	3024.00	feet	First Reading	4707.00 feet
Elevation Drill Floor	3023.00	feet	Depth Driller	4715.00 feet
Elevation Ground Level	3015.00	feet	Depth Logger	4710.00 feet
	ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG			