



Weatherford

**ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG**

COMPANY

McCoy PETROLEUM CORPORATION

WELL

THOMAS & REED FARMS 'A' #1-21

FIELD

WILDCAT

PROVINCE/COUNTY

GRAY

COUNTRY/STATE

U.S.A. / KANSAS

LOCATION

660' FNL & 1980' FWL

SEC 21

TWP 29S

RGE 28W

Other Services

Latitude

MPD/MDN

MSS

MML

API Number

15-069-20499

Permanent Datum GL, Elevation 2728 feet

Log Measured From KB, 11.00 feet above Permanent Datum

Drilling Measured From KB

Date

18-MAR-2017

Run Number

ONE

Service Order

4558-177026132

Depth Driller

6500.00 feet

Depth Logger

6495.00 feet

First Reading

6492.00 feet

Last Reading

1685.00 feet

Casing Driller

1690.00 feet

Casing Logger

1685.00 feet

Bit Size

7.875

inches

Hole Fluid Type

CHEMICAL

Density / Viscosity

9.00 lb/USg

55.00 CP

PH / Fluid Loss

9.50

8.00 ml/30Min

Sample Source

FLOWLINE

Rm @ Measured Temp

1.03 @ 75.0 ohm-m

Rmf @ Measured Temp

0.82 @ 75.0 ohm-m

Rmc @ Measured Temp

1.24 @ 75.0 ohm-m

Source Rmf / Rmc

CALC

CALC

Rm @ BHT

0.63 @123.0 ohm-m

Time Since Circulation

5 HOURS

Max Recorded Temp

123.00 deg F

Equipment / Base

13096

OKC

Recorded By

ADAM SILL

BOREHOLE RECORD

Last Edited: 18-MAR-2017 10:18

Bit Size
inches

7.875

Depth From
feet

1695.00

Depth To
feet

6500.00

CASING RECORD

Type

Size
inches

8.625

Depth From
feet

0.00

Shoe Depth
feet

1695.00

Weight
pounds/ft

24.00

REMARKS

- SOFTWARE ISSUE: WLS 16.05.4955.

- RUN ONE: MCG, MML, MDN, MPD, MFE, MSS, MAI RUN IN COMBINATION.

- HARDWARE: DUAL BOWSPRING USED ON MDN.

0.5 INCH STANDOFF USED ON MFE.

TWO 0.5 INCH STANDOFFS USED ON MSS.

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.

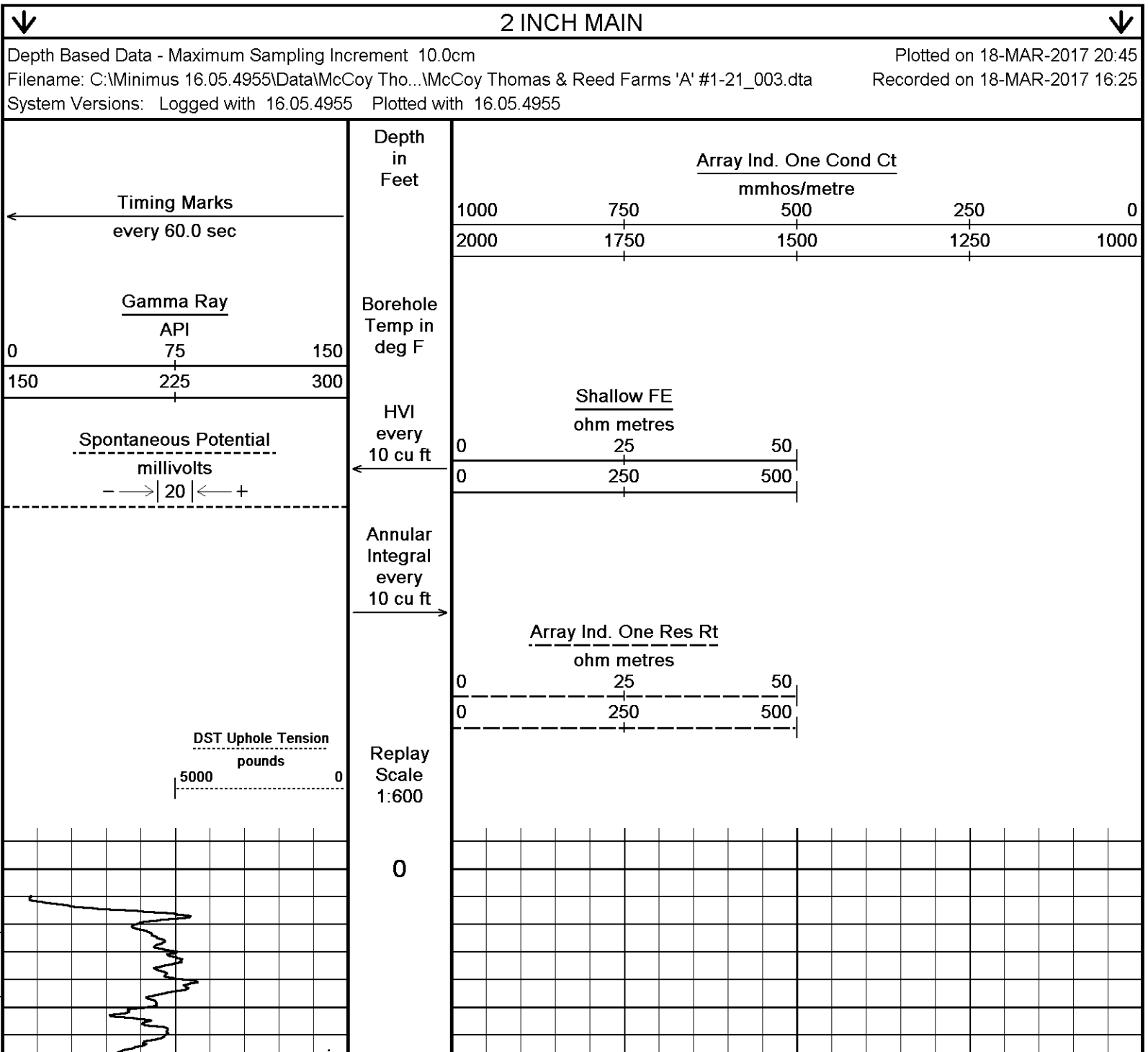
- ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.

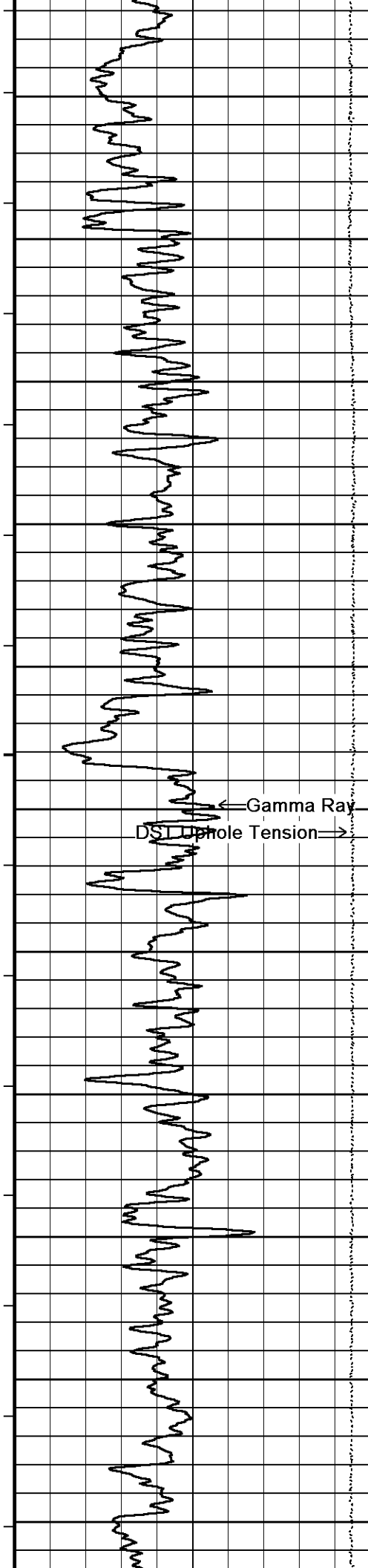
- TOTAL HOLE VOLUME FROM TD TO SURFACE CASING: 1752 CU.FT.

- ANNULAR HOLE VOLUME WITH 4.5 INCH PRODUCTION CASING FROM TD TO 2700 FEET: 869 CU.FT.

- RIG: STERLING #4.
- ENGINEER: A. SILL.
- OPERATOR: B. TOVAR.

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.





84°

100

85°

200

84°

300

Gamma Ray
DST

84°

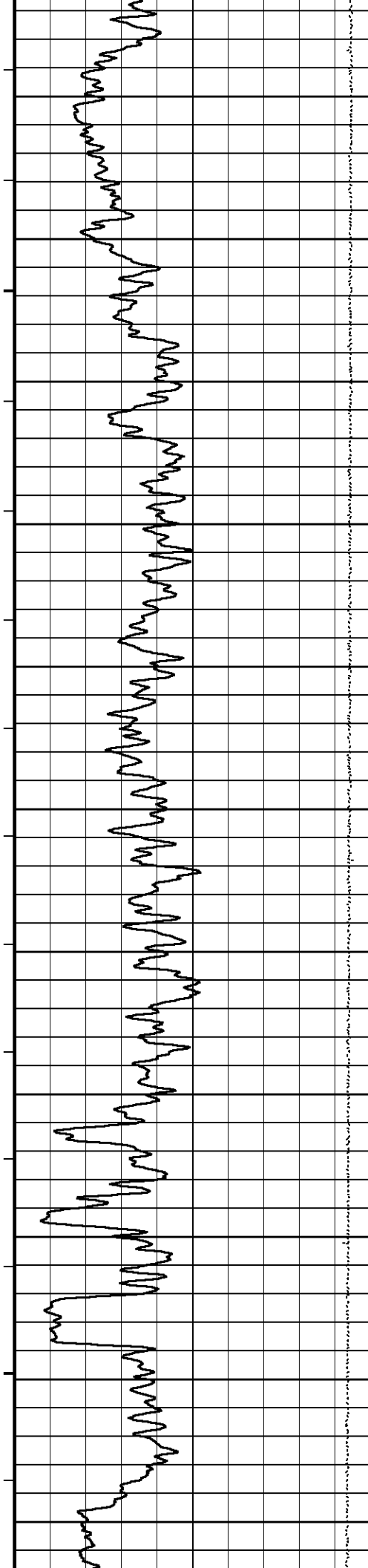
400

84°

500

87°

600



87°

700

87°

800

88°

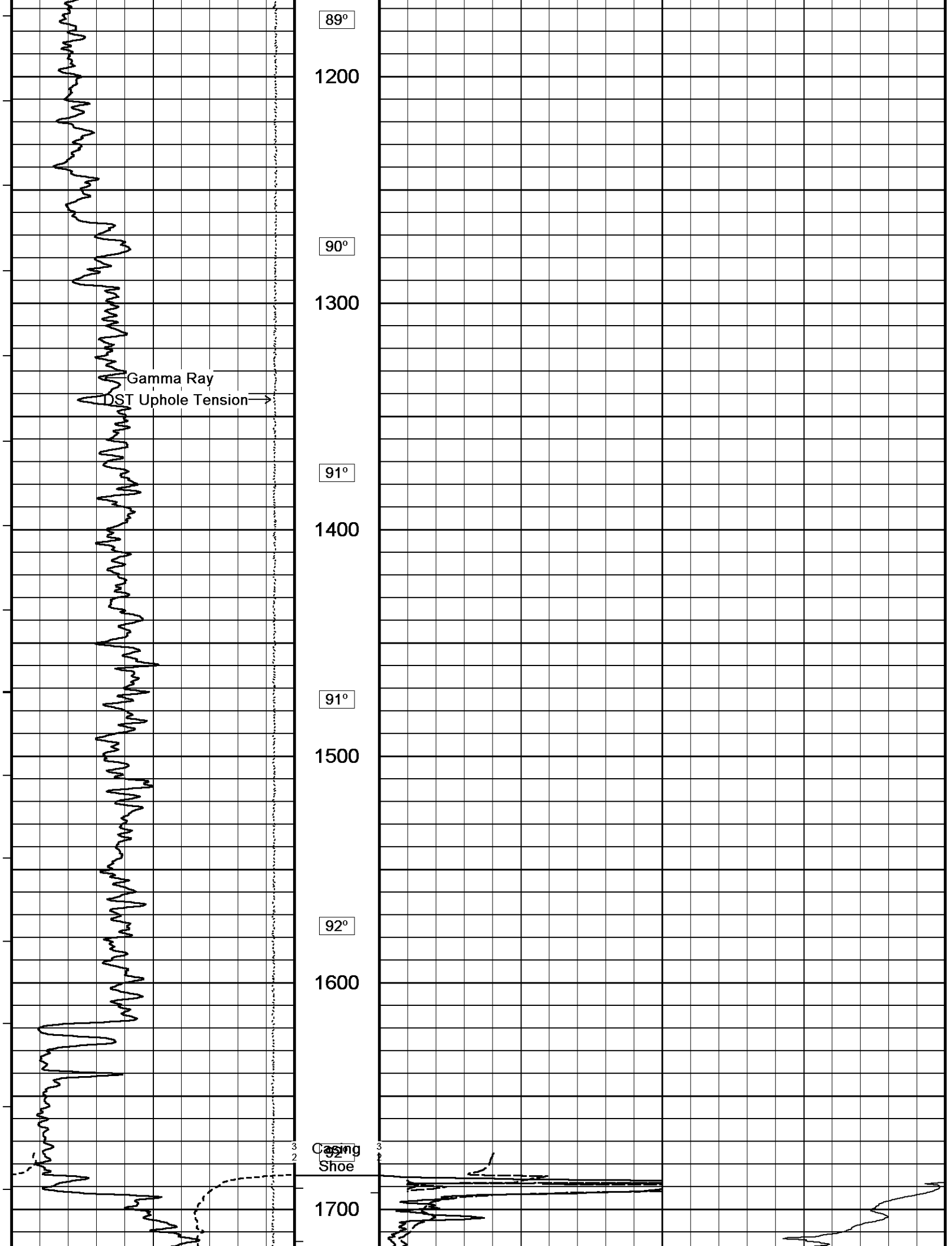
900

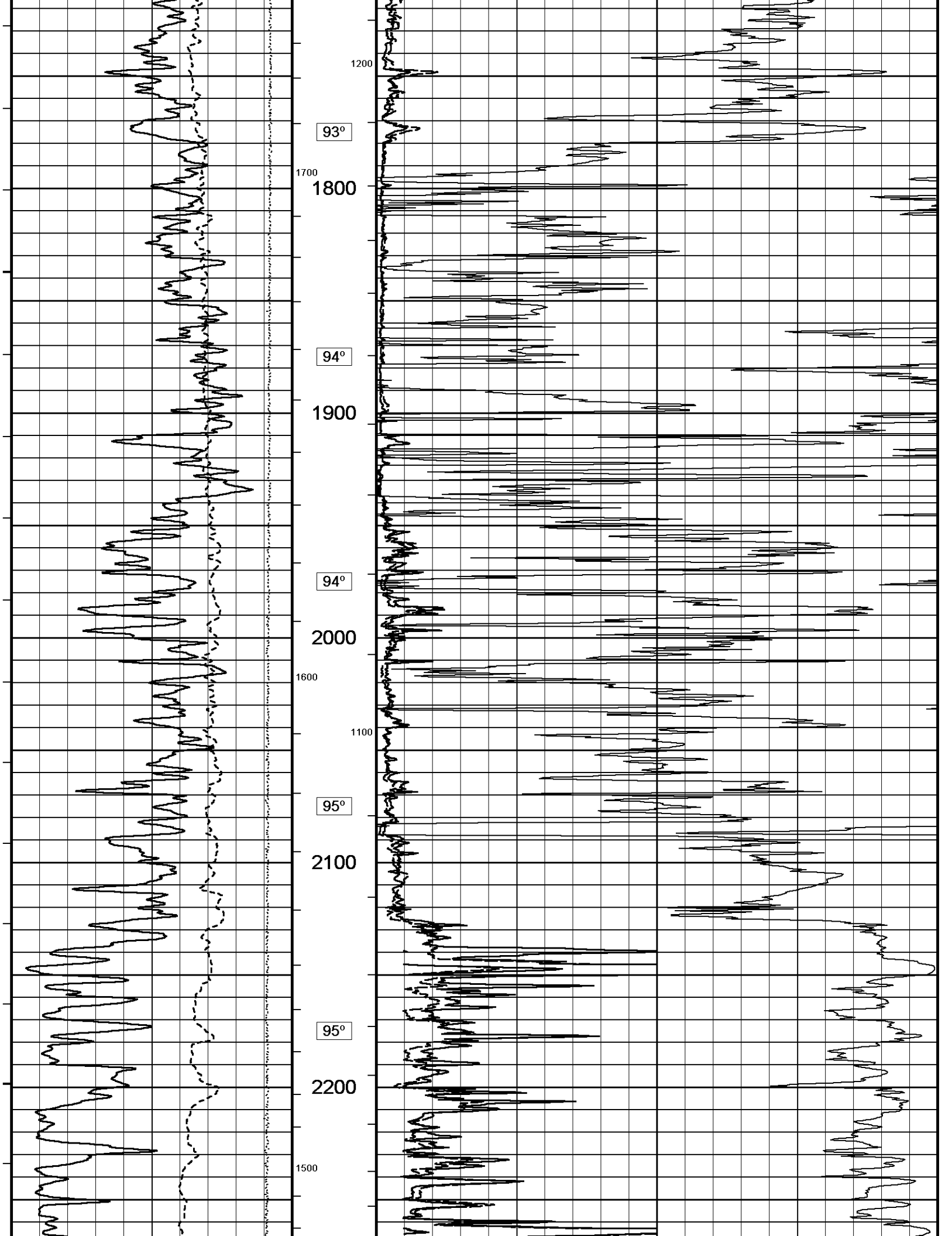
89°

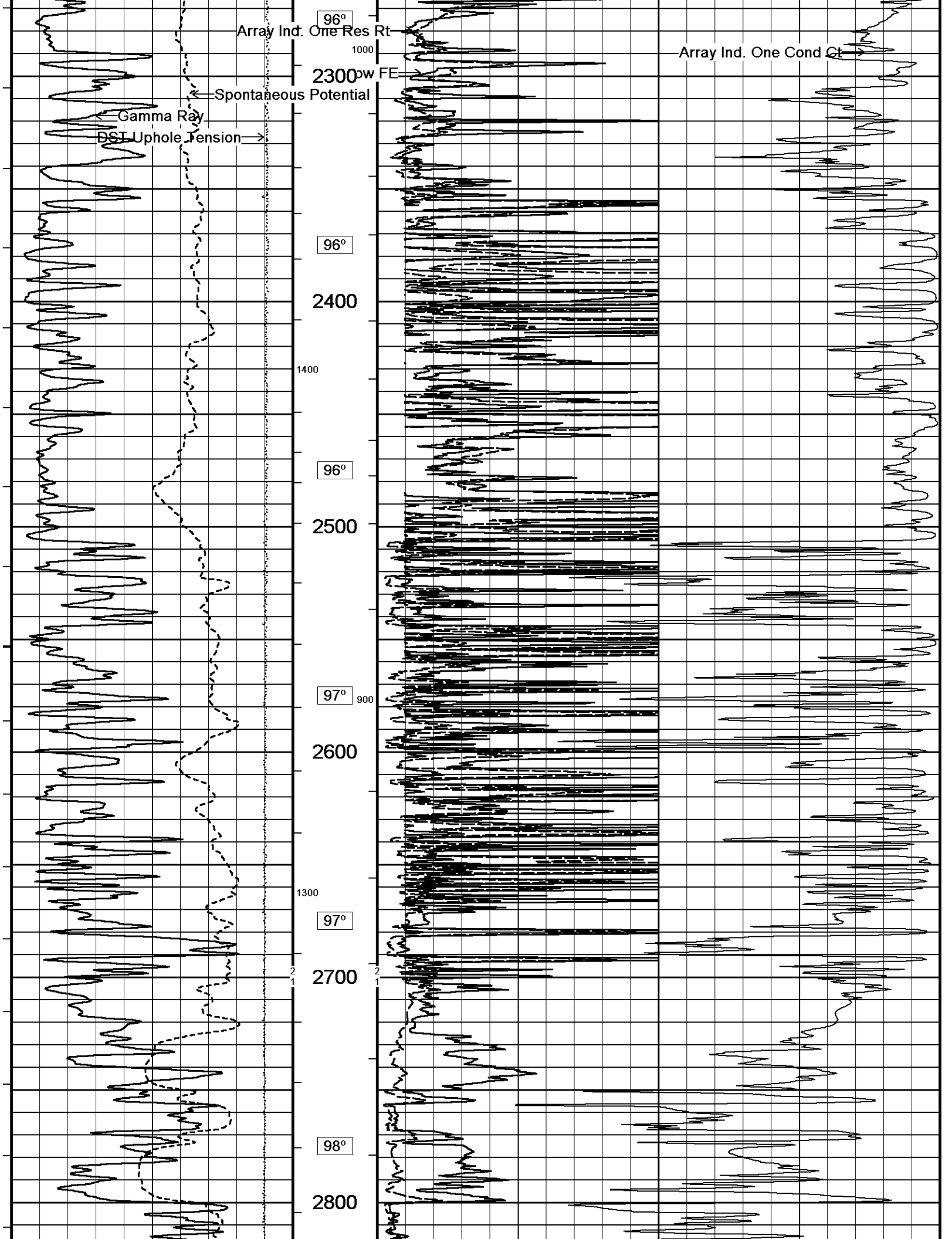
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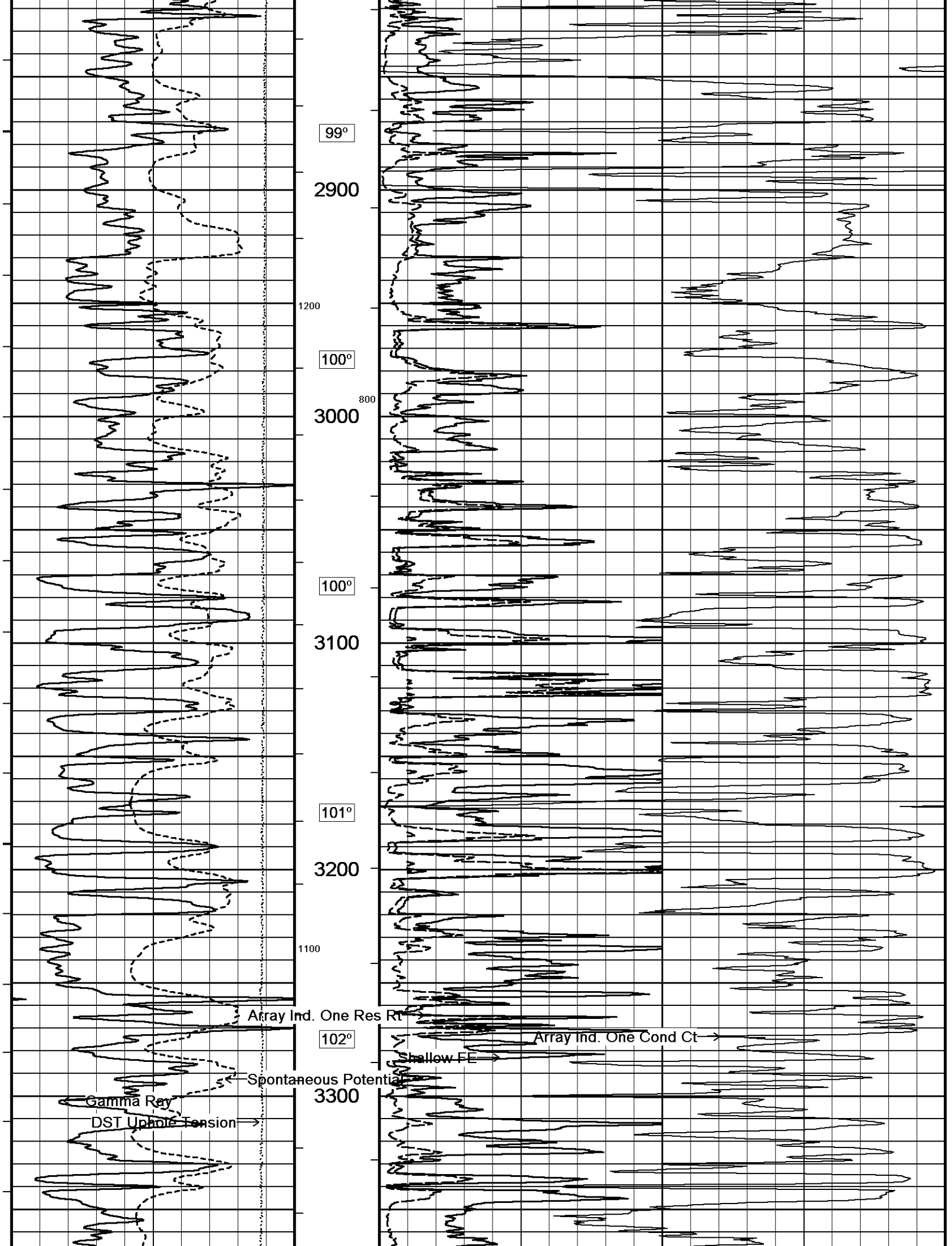
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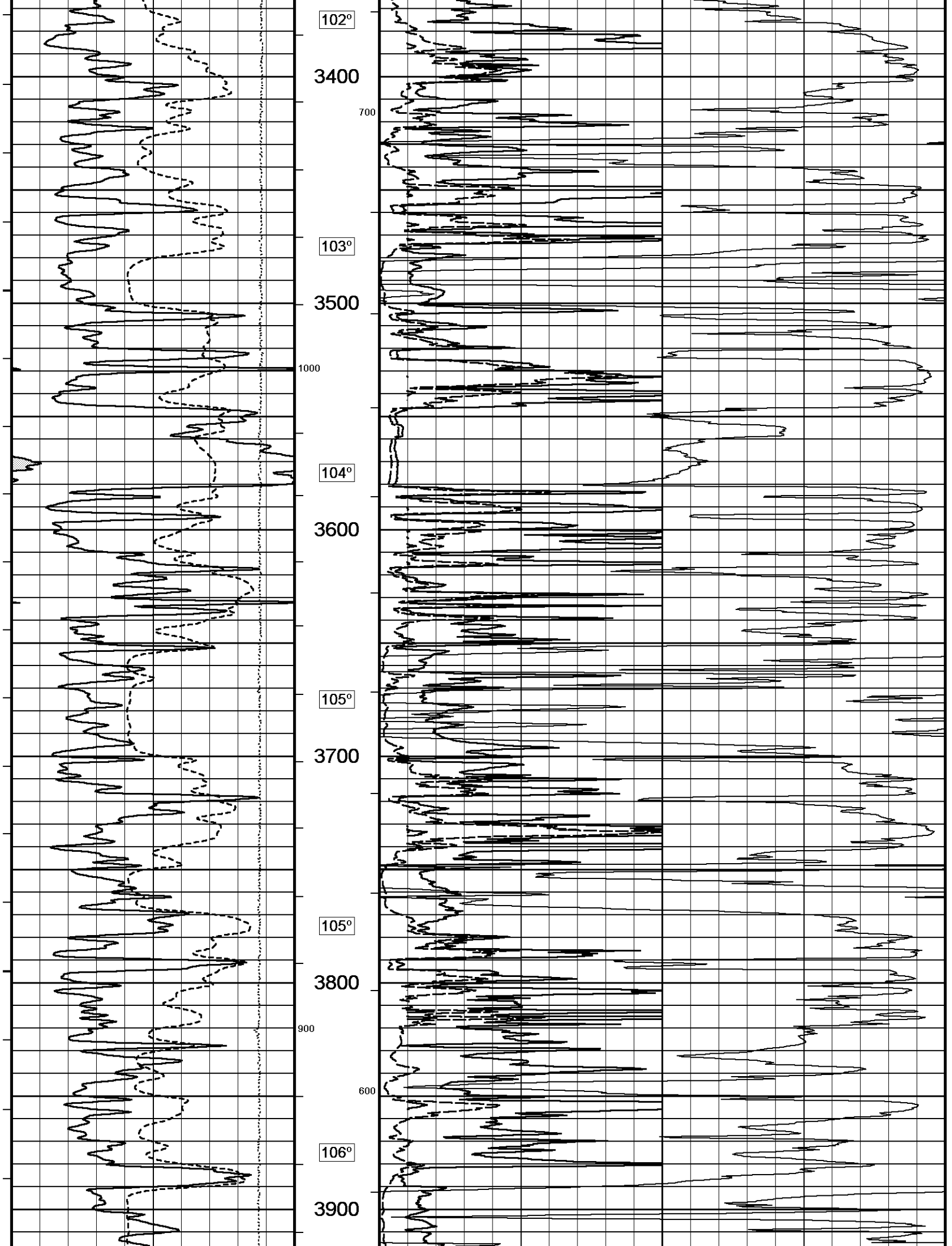
1100

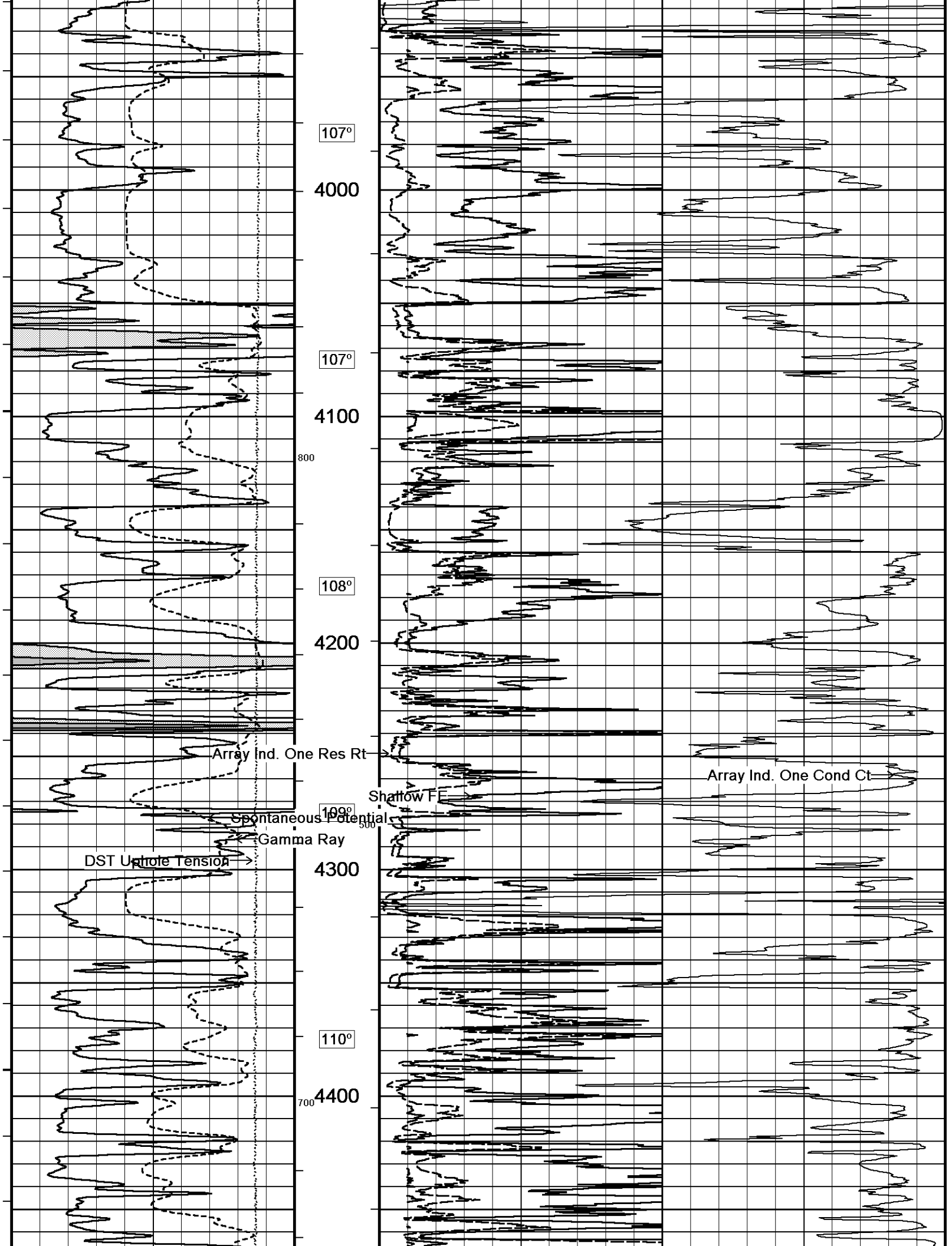


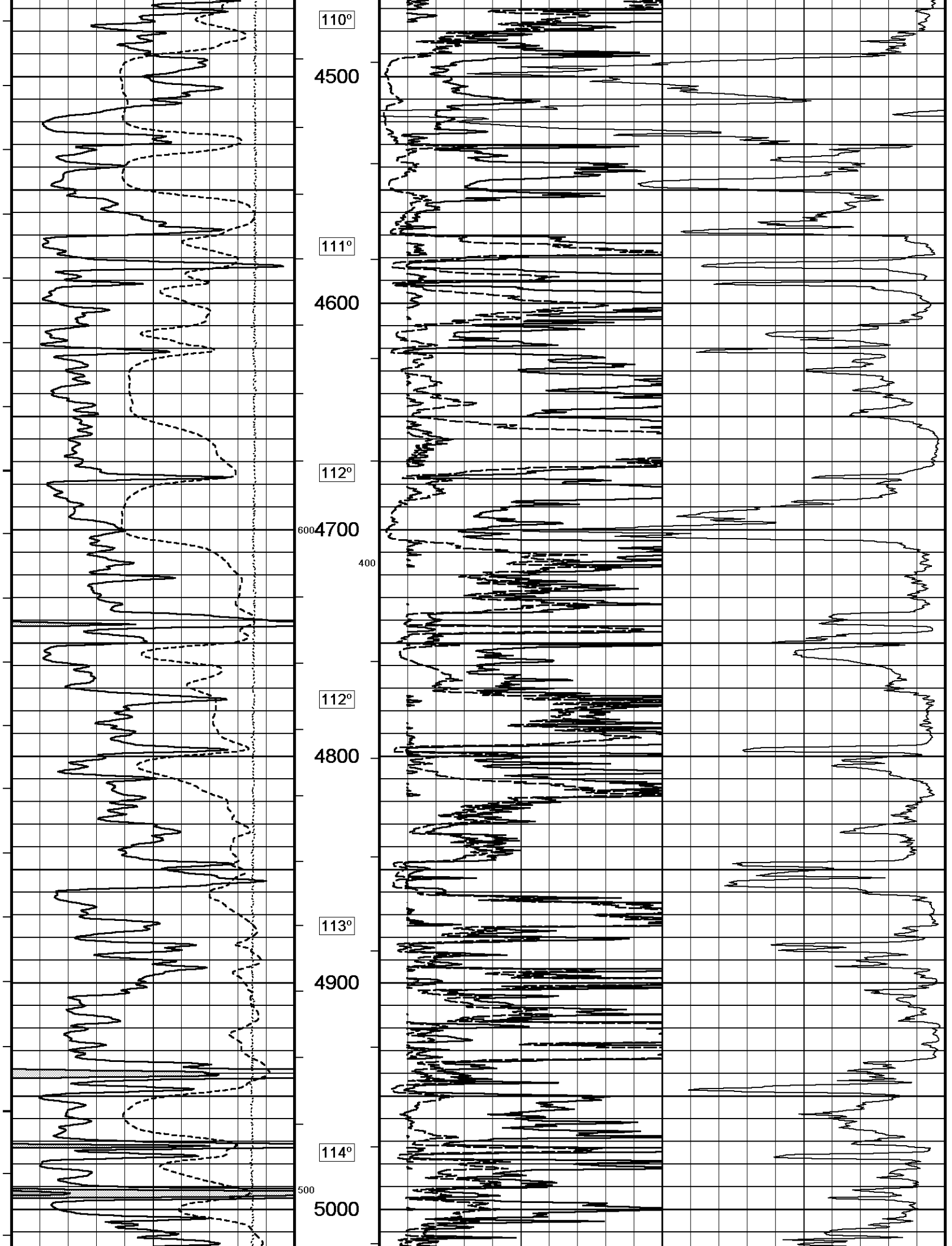


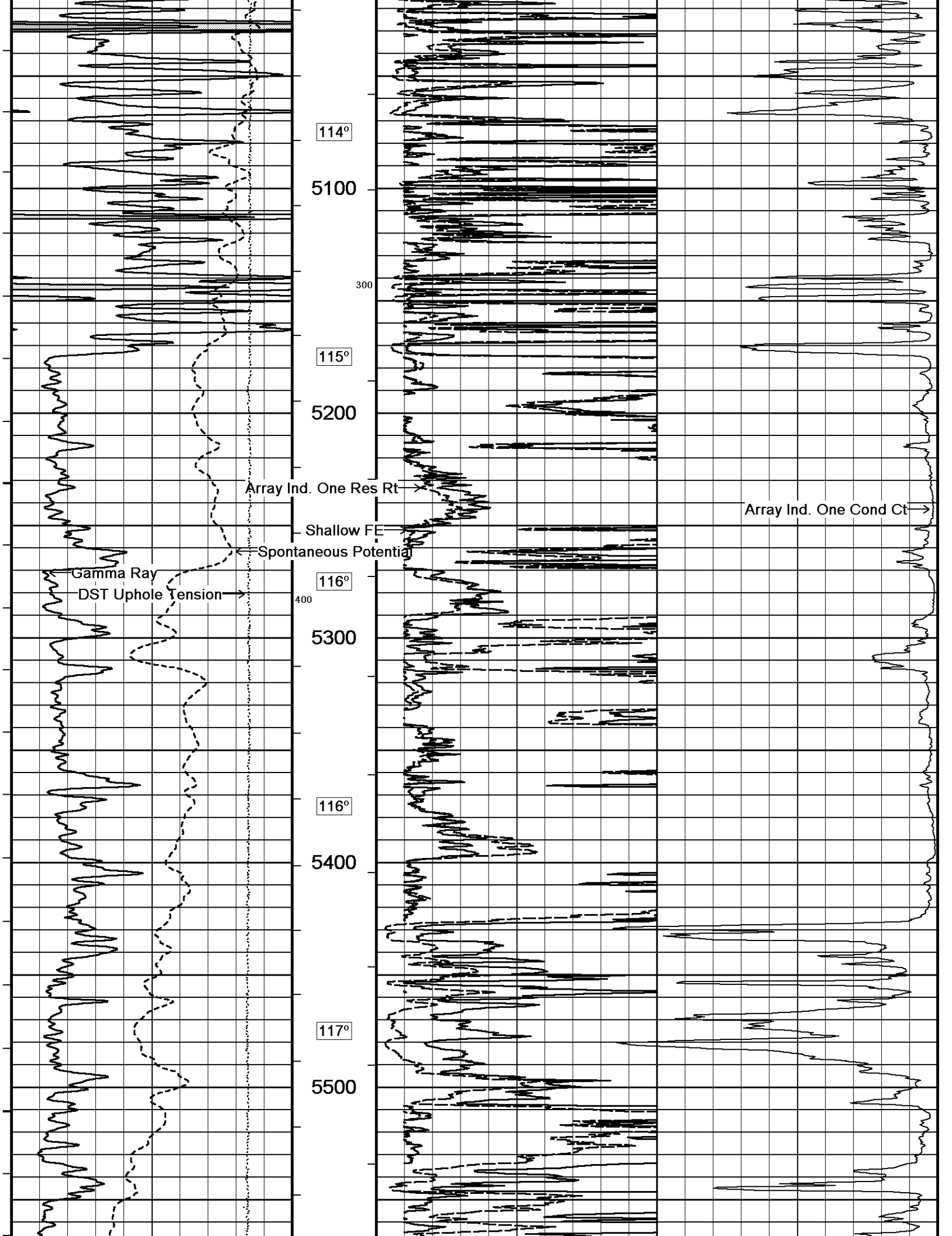


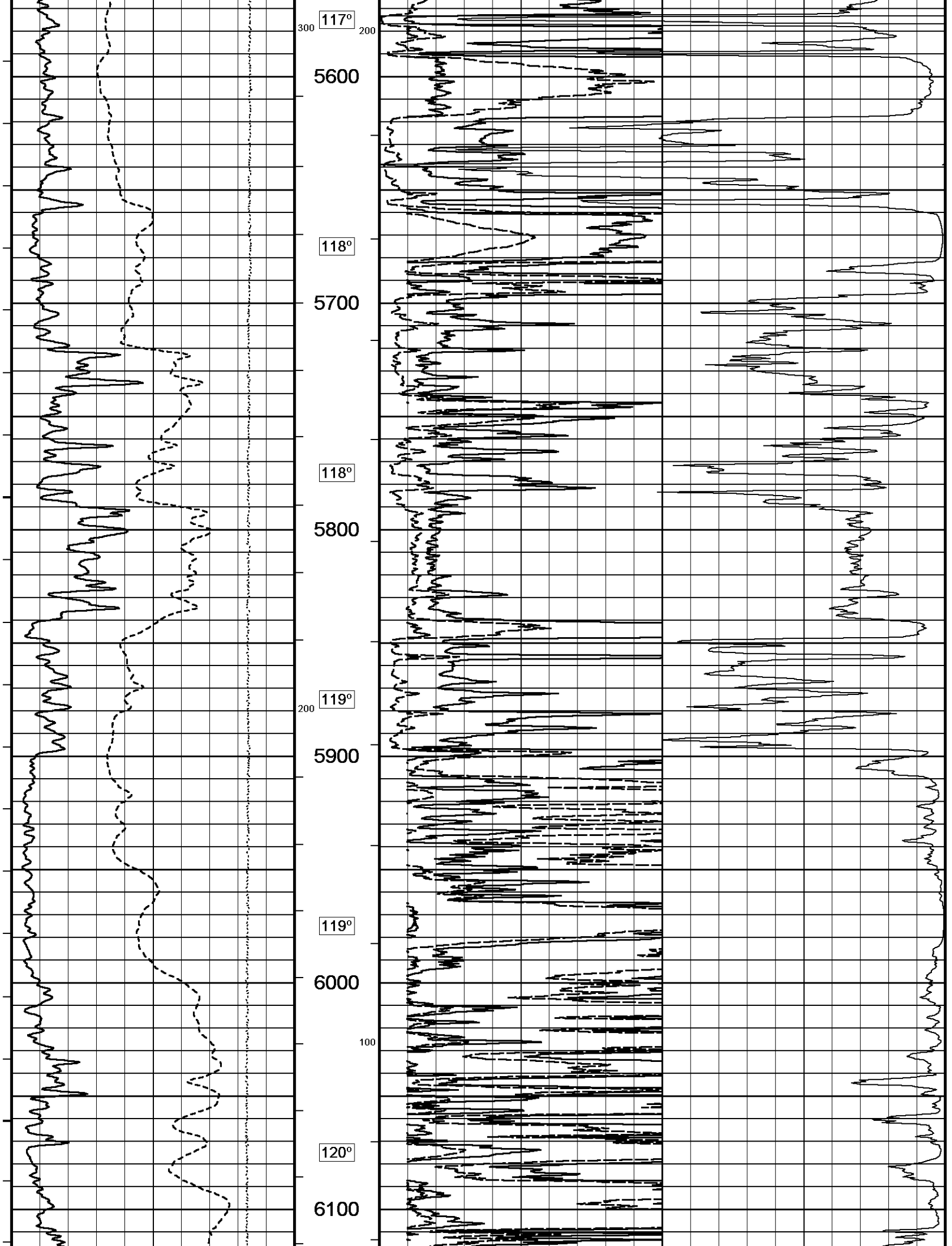


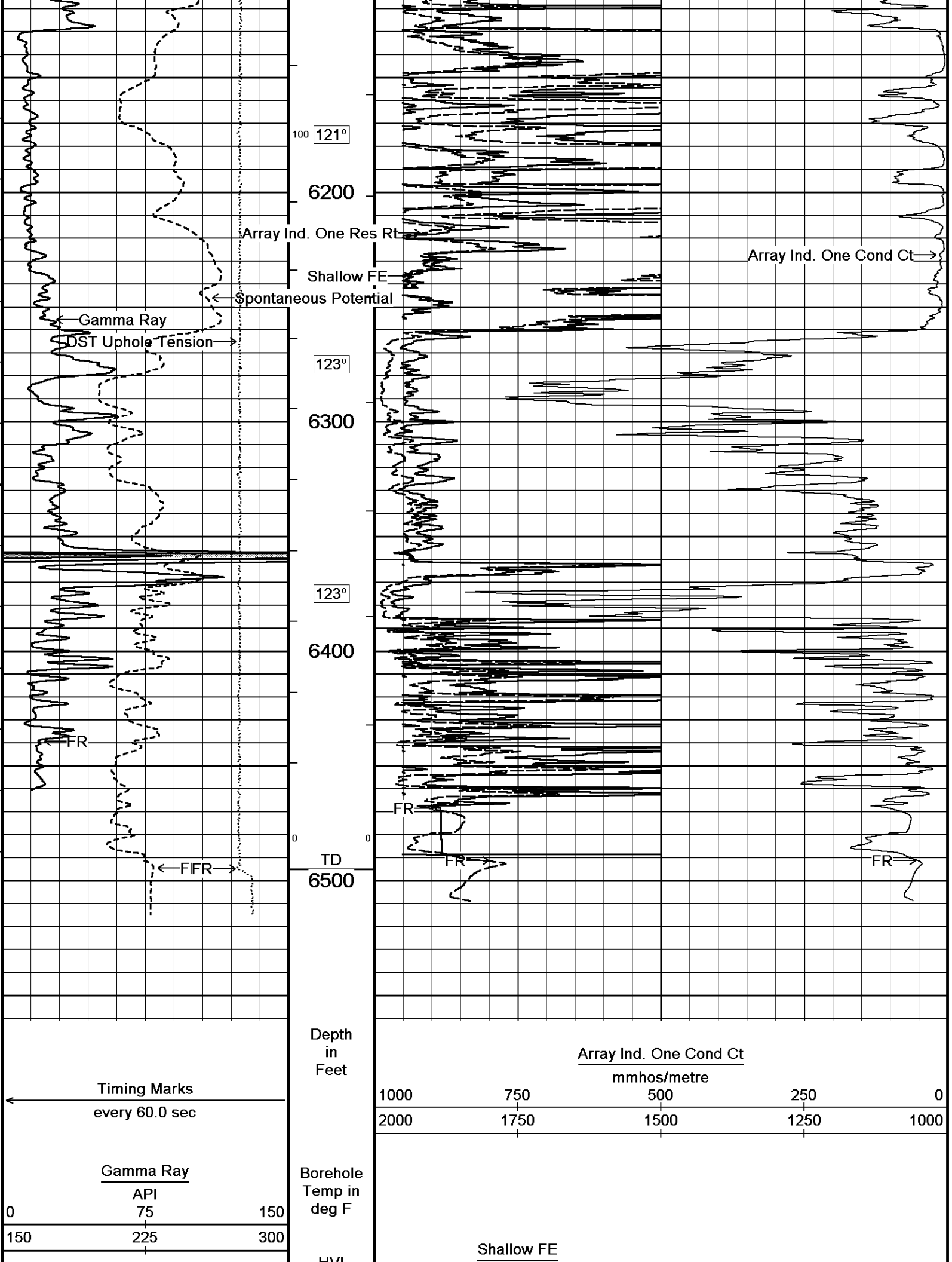


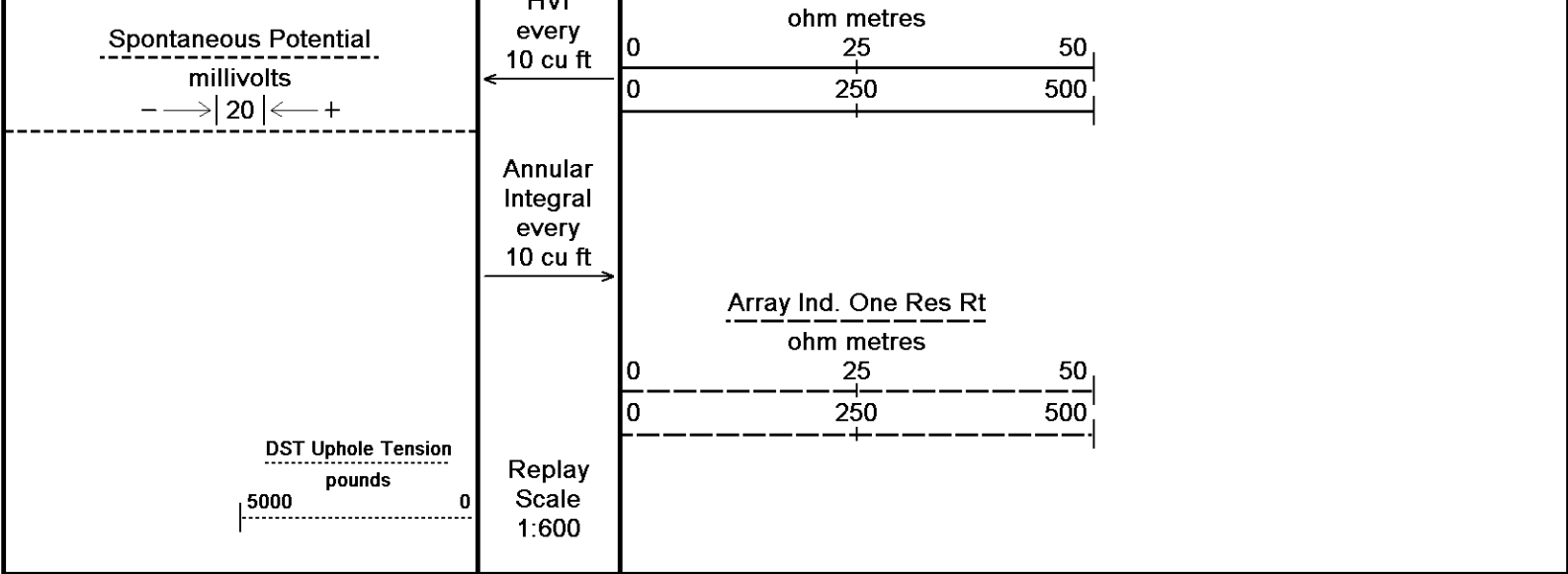










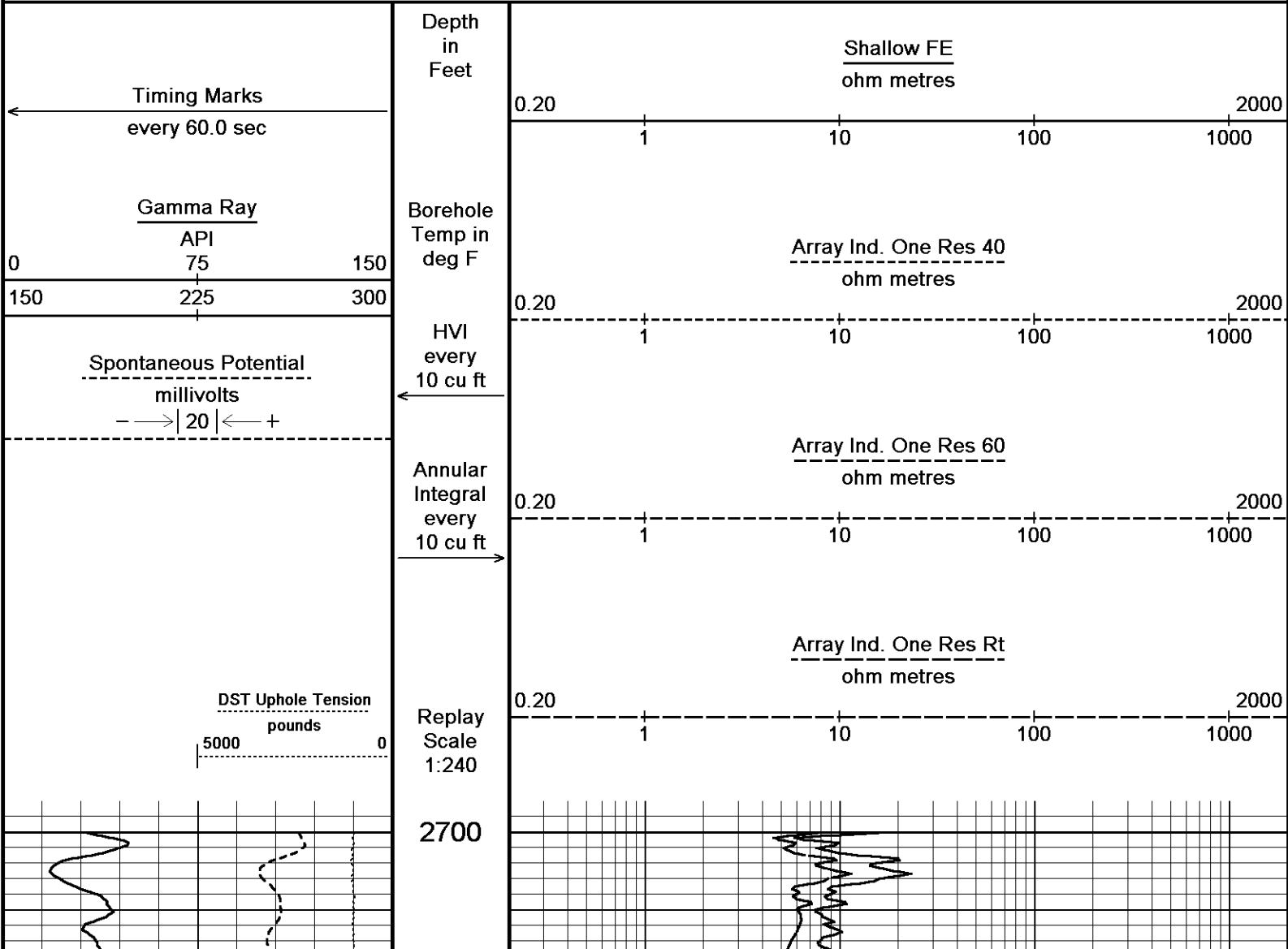


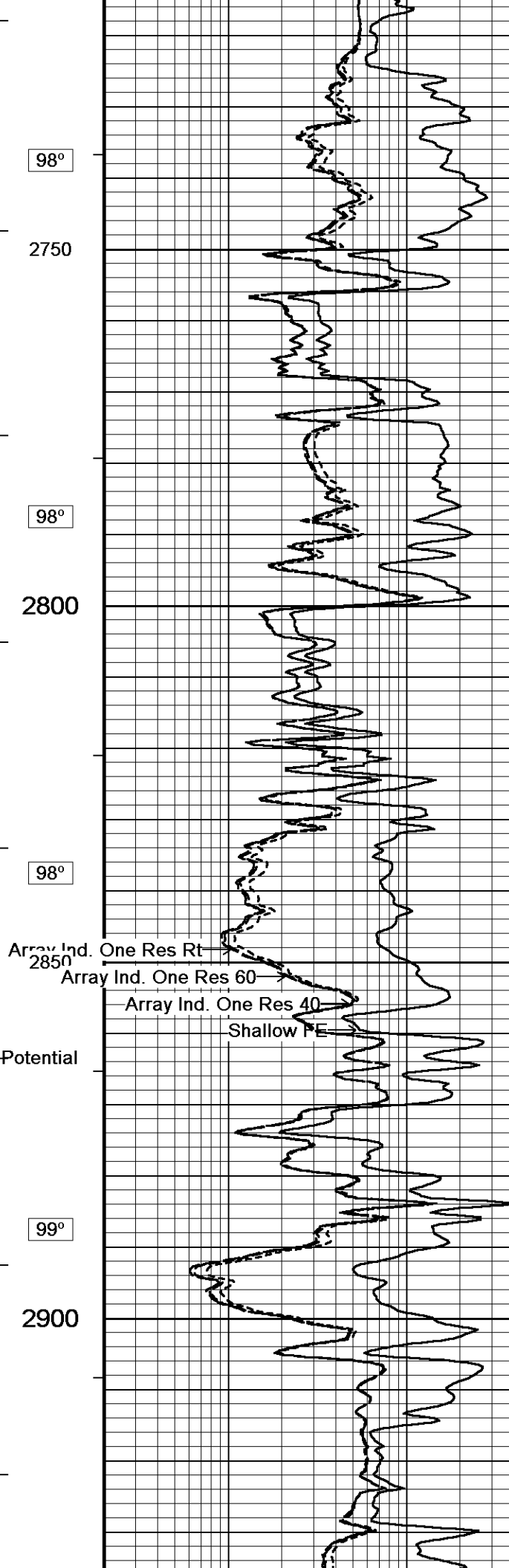
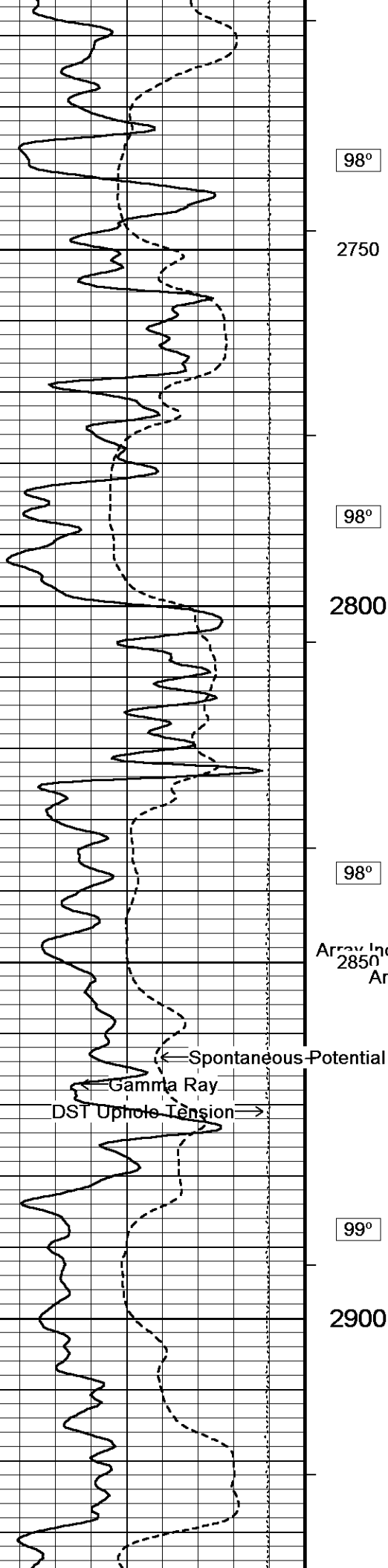
Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 18-MAR-2017 20:45
Filename: C:\Minimus 16.05.4955\Data\McCoy Tho...\McCoy Thomas & Reed Farms 'A' #1-21_003.dta Recorded on 18-MAR-2017 16:25
System Versions: Logged with 16.05.4955 Plotted with 16.05.4955

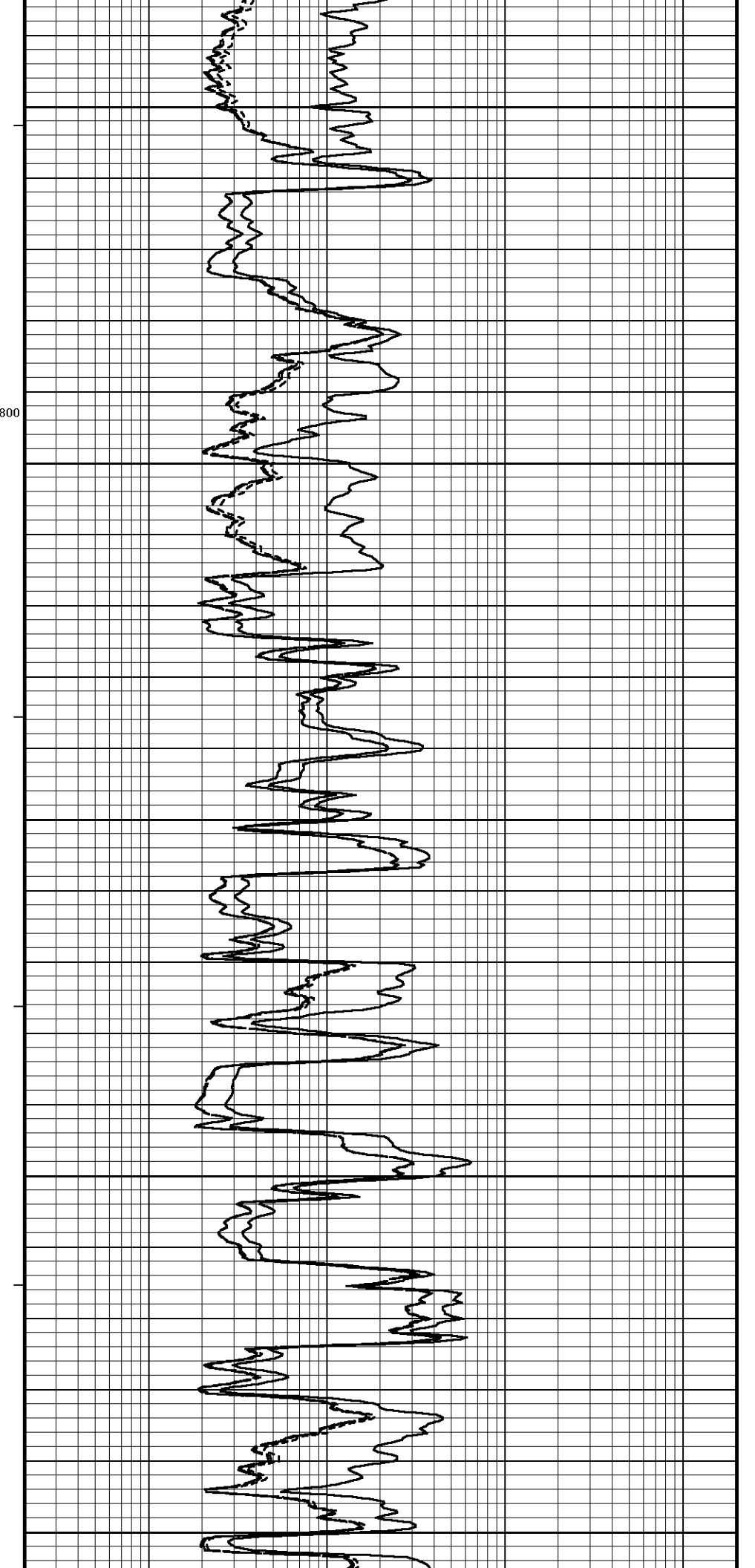
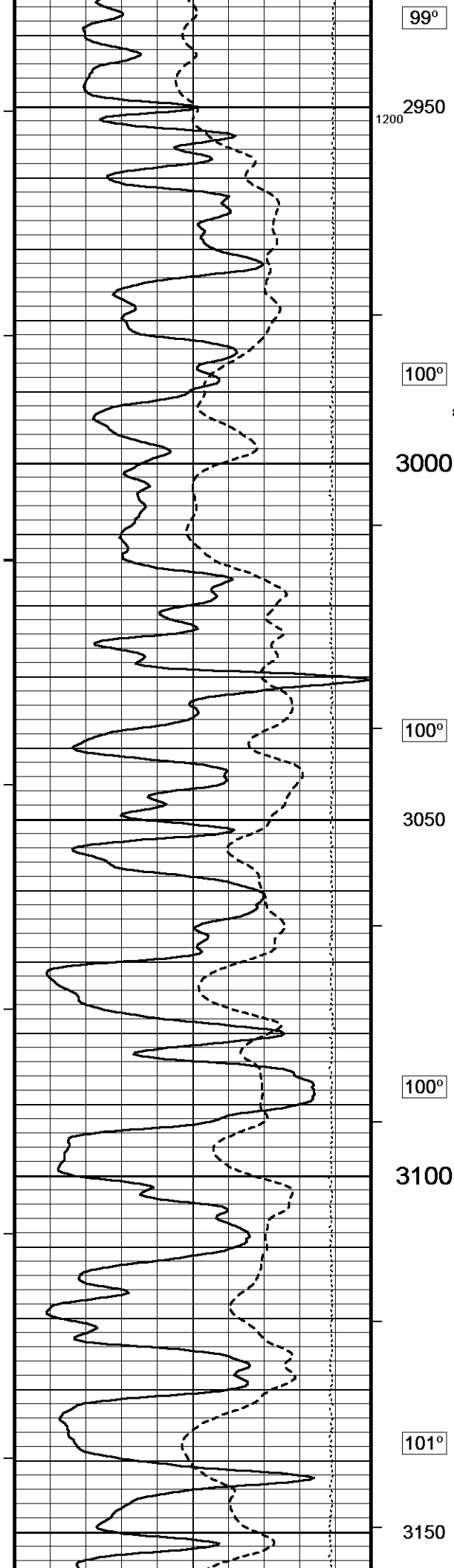
↑ 2 INCH MAIN ↑

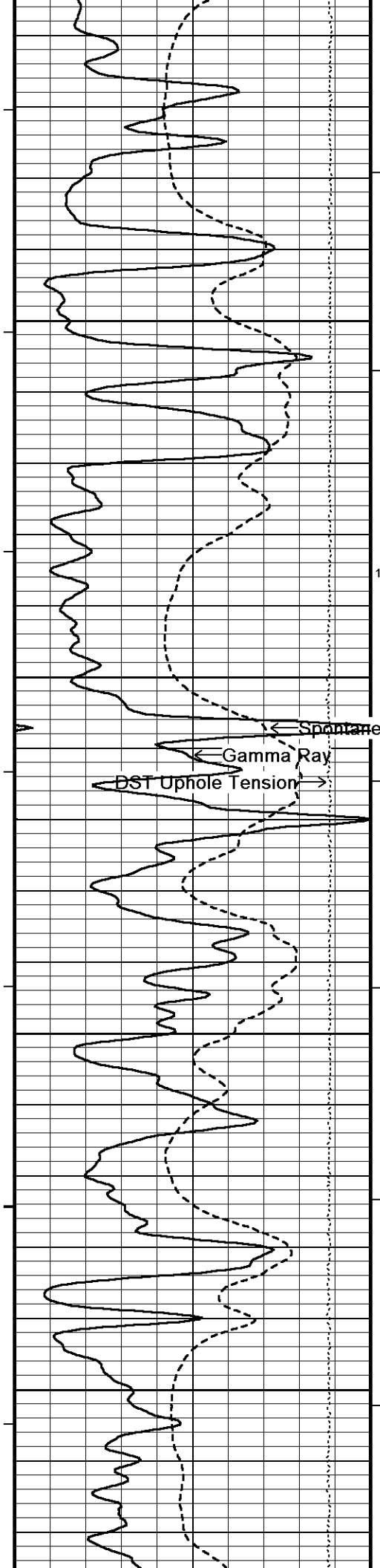
↓ 5 INCH MAIN ↓

Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 18-MAR-2017 20:45
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System Versions: Logged with 16.05.4955 Plotted with 16.05.4955

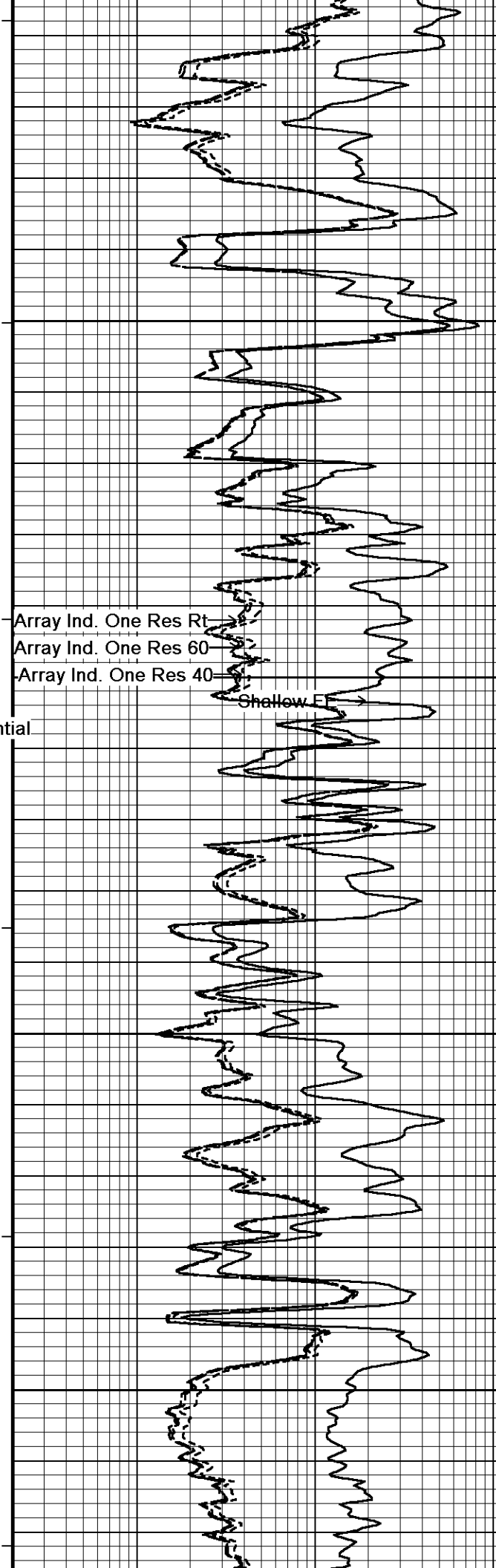






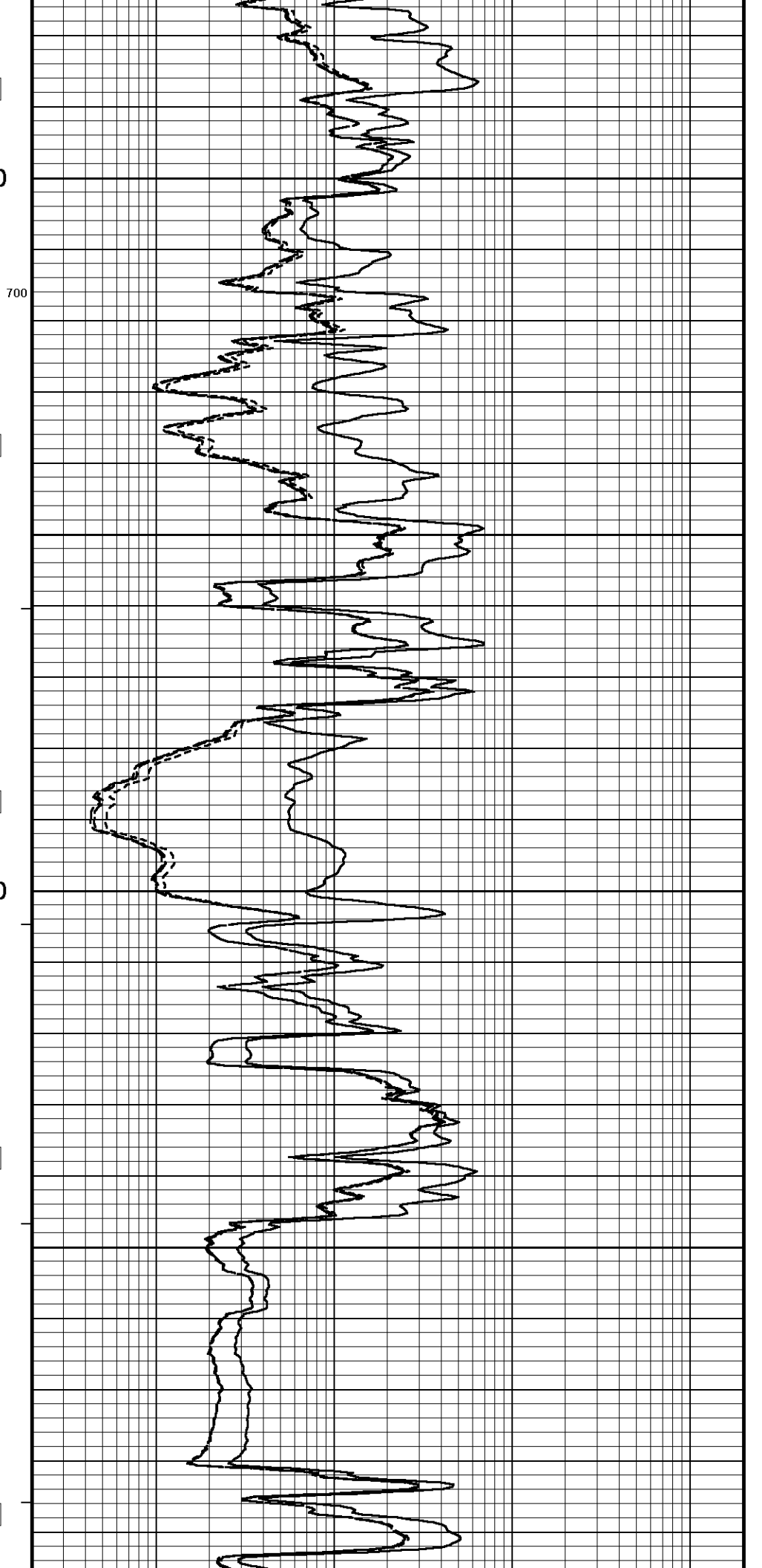
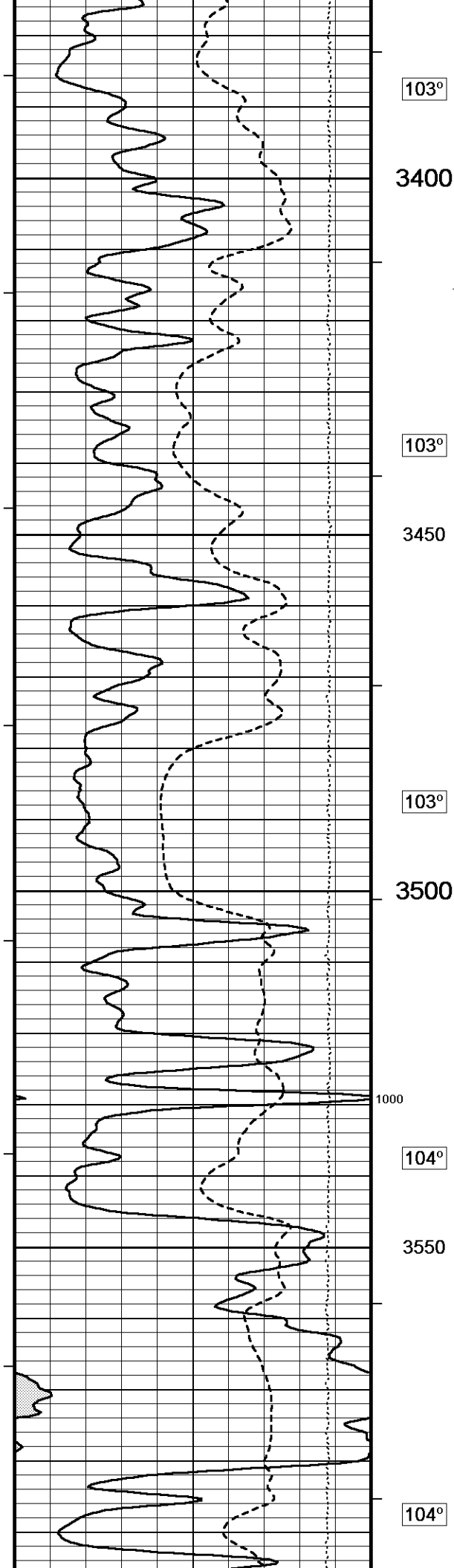


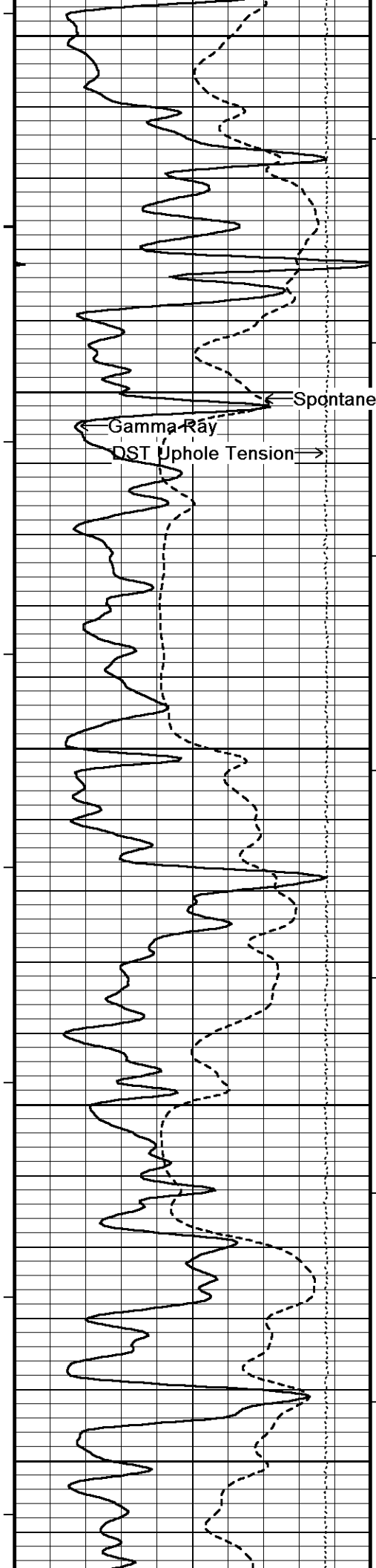
101°
3200
1100
101°
3250
102°
3300
102°
3350



Array Ind. One Res Rt
Array Ind. One Res 60
Array Ind. One Res 40
Shallow F

Spontaneous Potential
Gamma Ray
DST Uphole Tension





3600

104°

3650

Gamma Ray

DST Uphole Tension →

Spontaneous Potential

105°

3700

105°

3750

105°

3800

Array Ind. One Res Rt

Array Ind. One Res 60

Array Ind. One Res 40

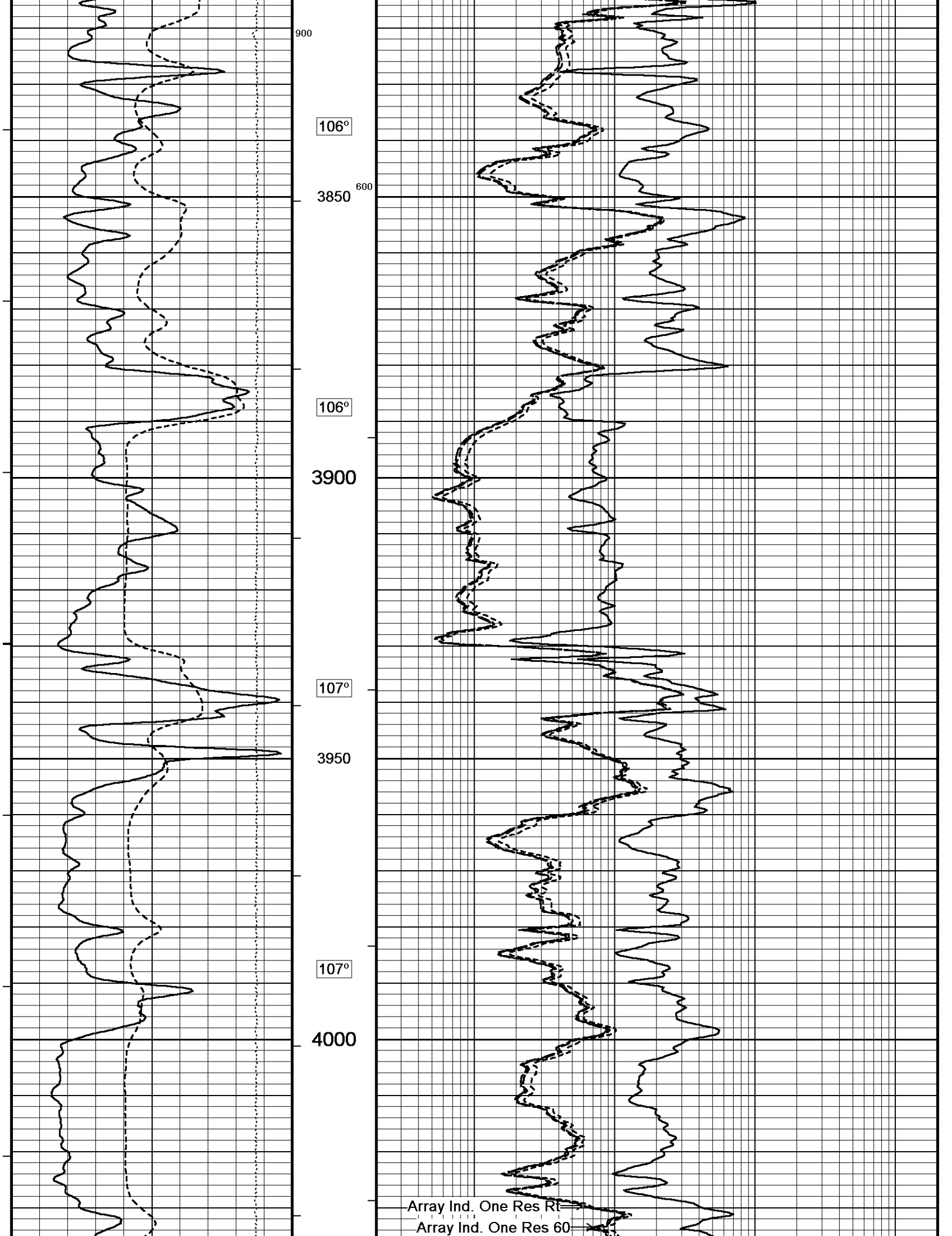
Shallow FE →

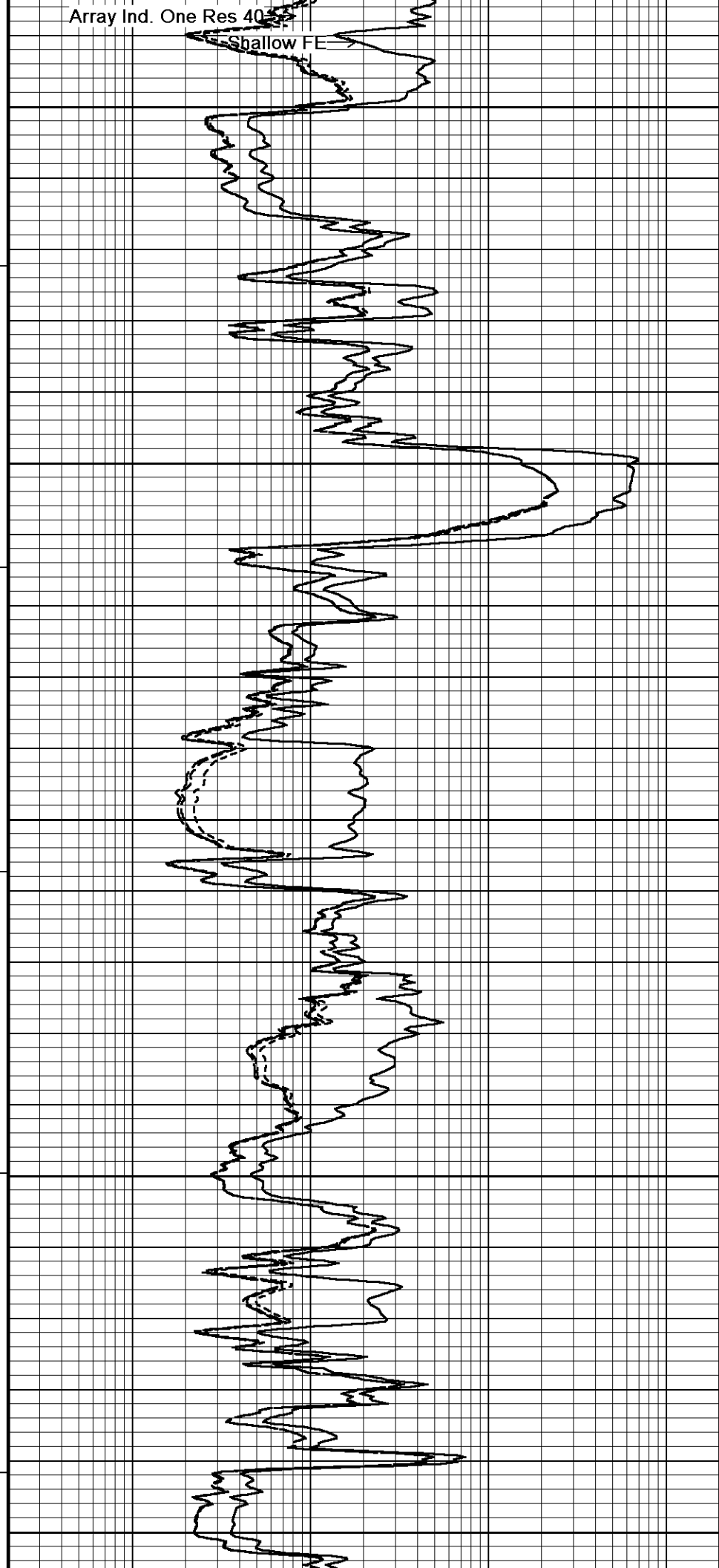
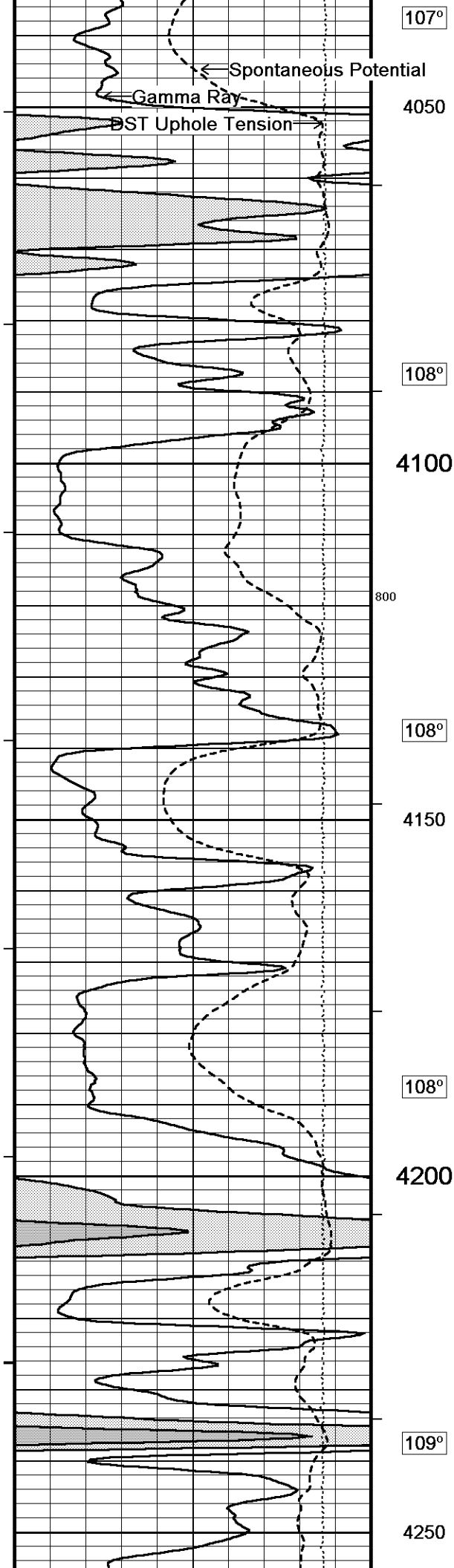
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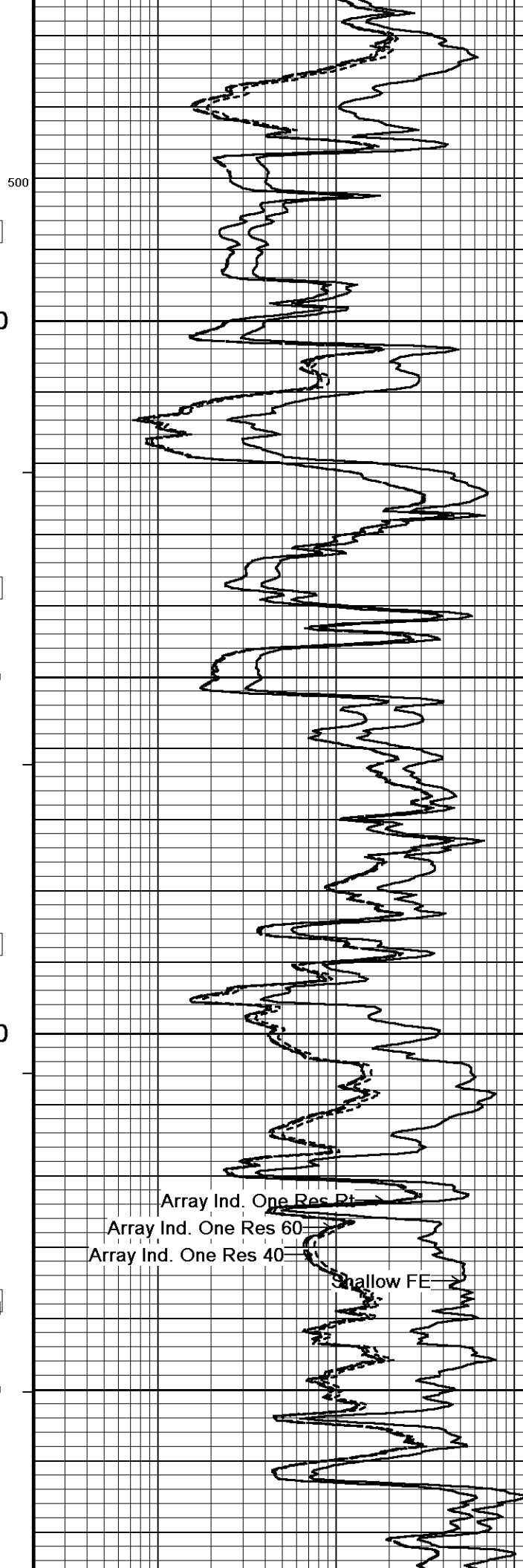
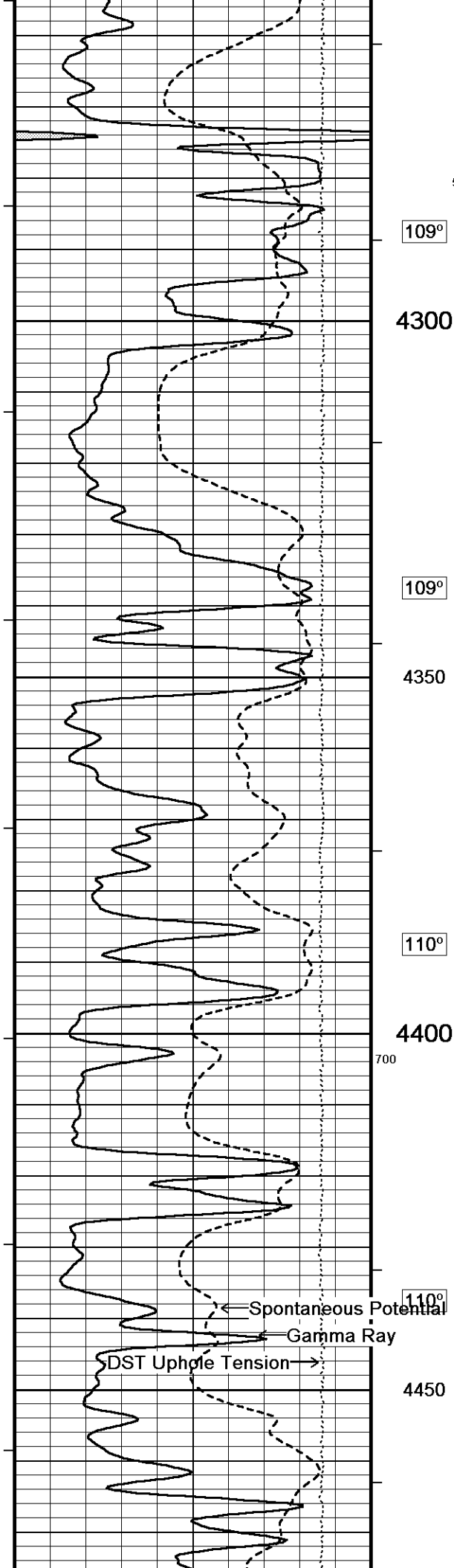
105°

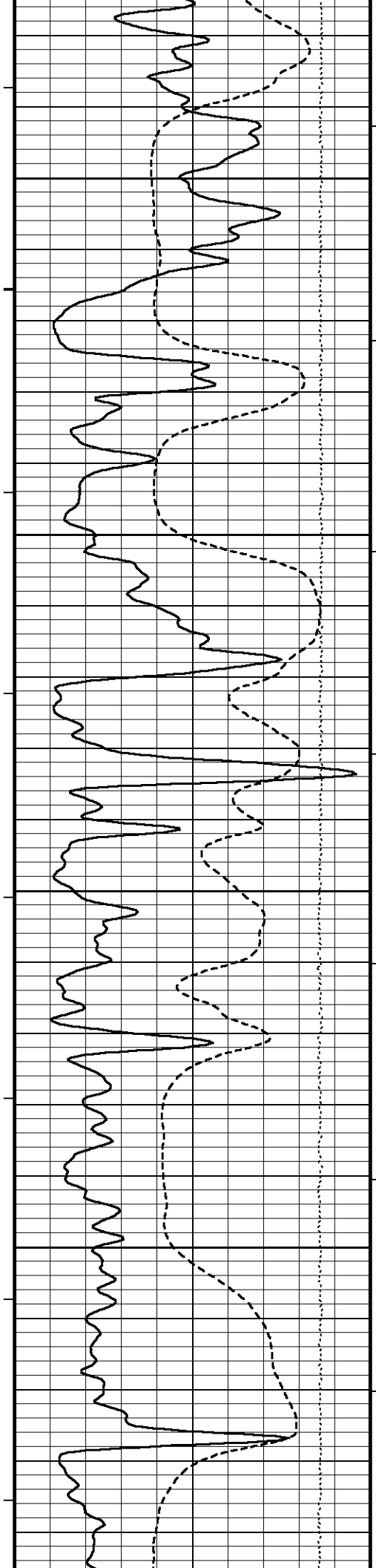
105°

105°









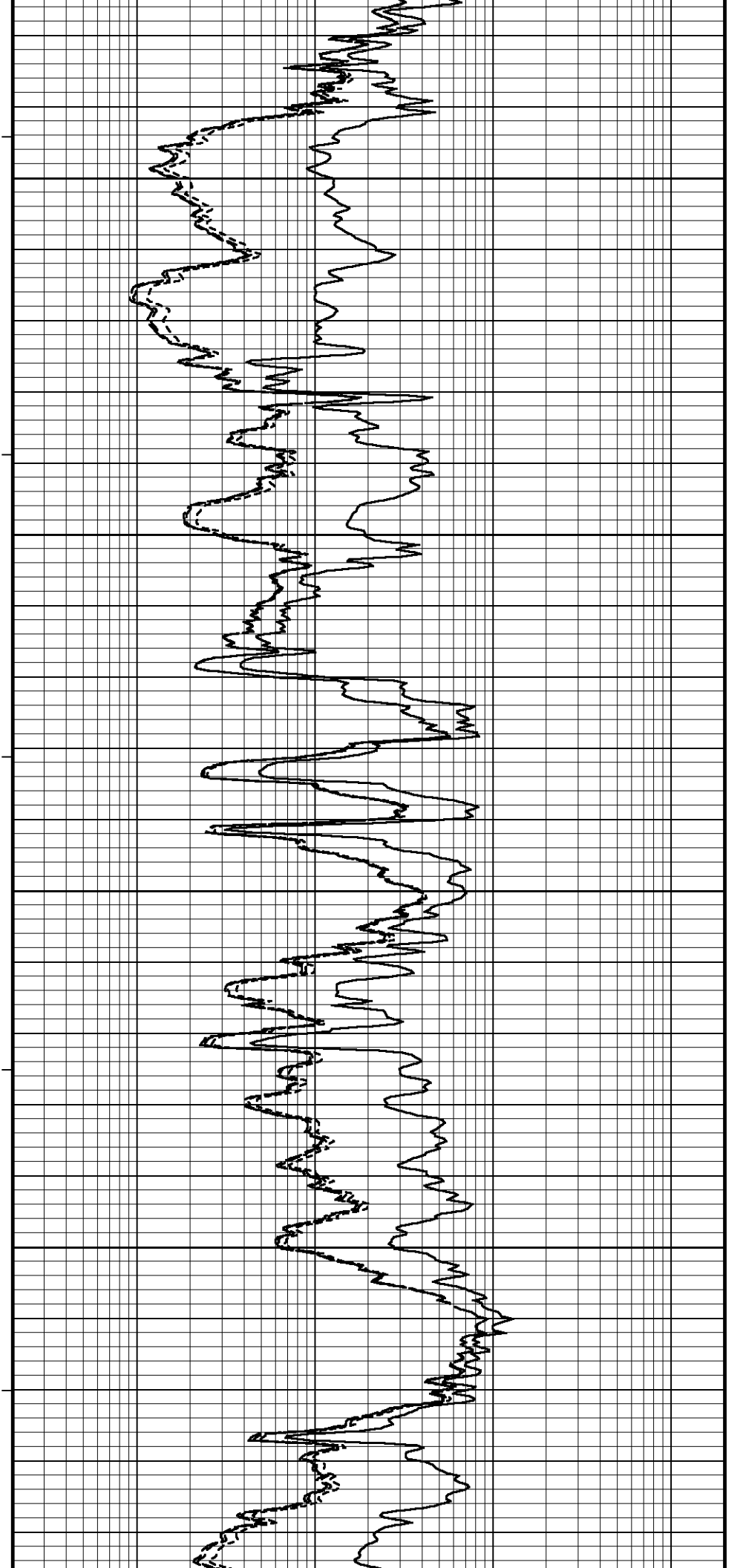
110°
4500

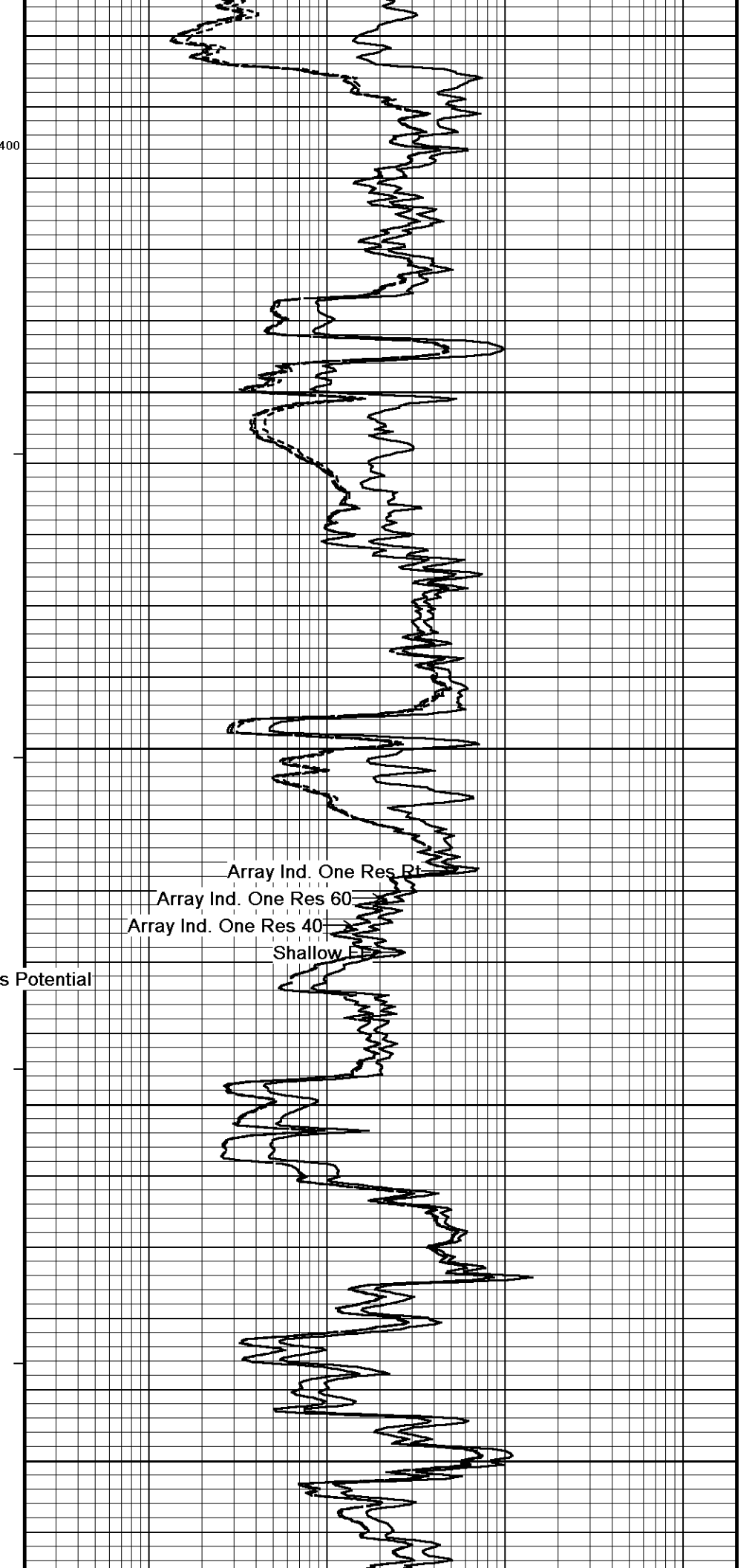
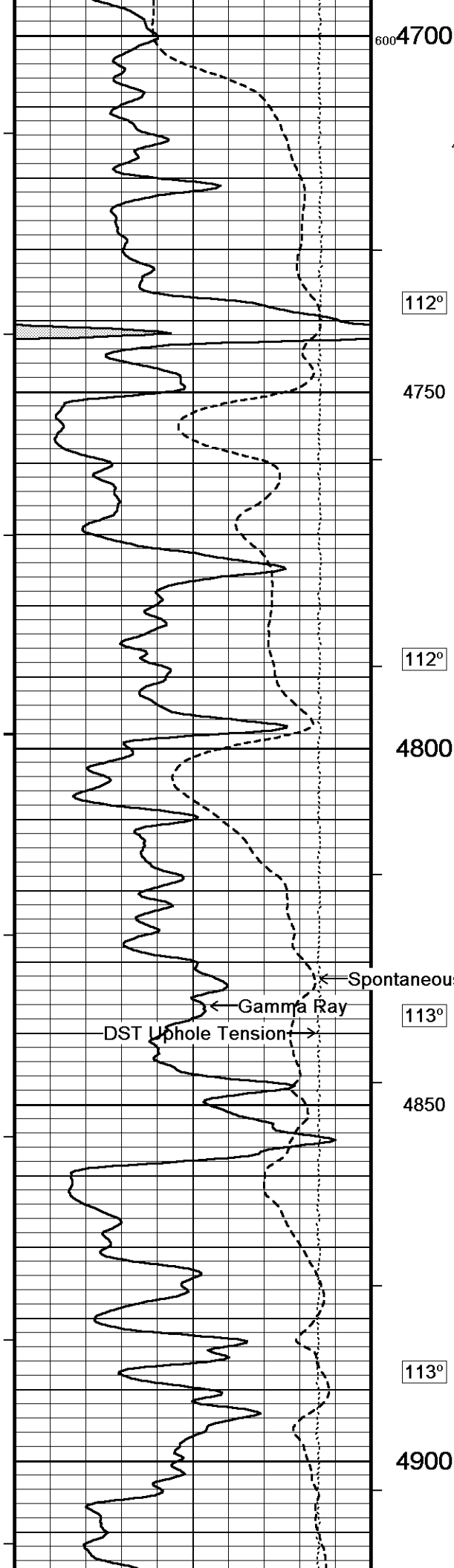
111°
4550

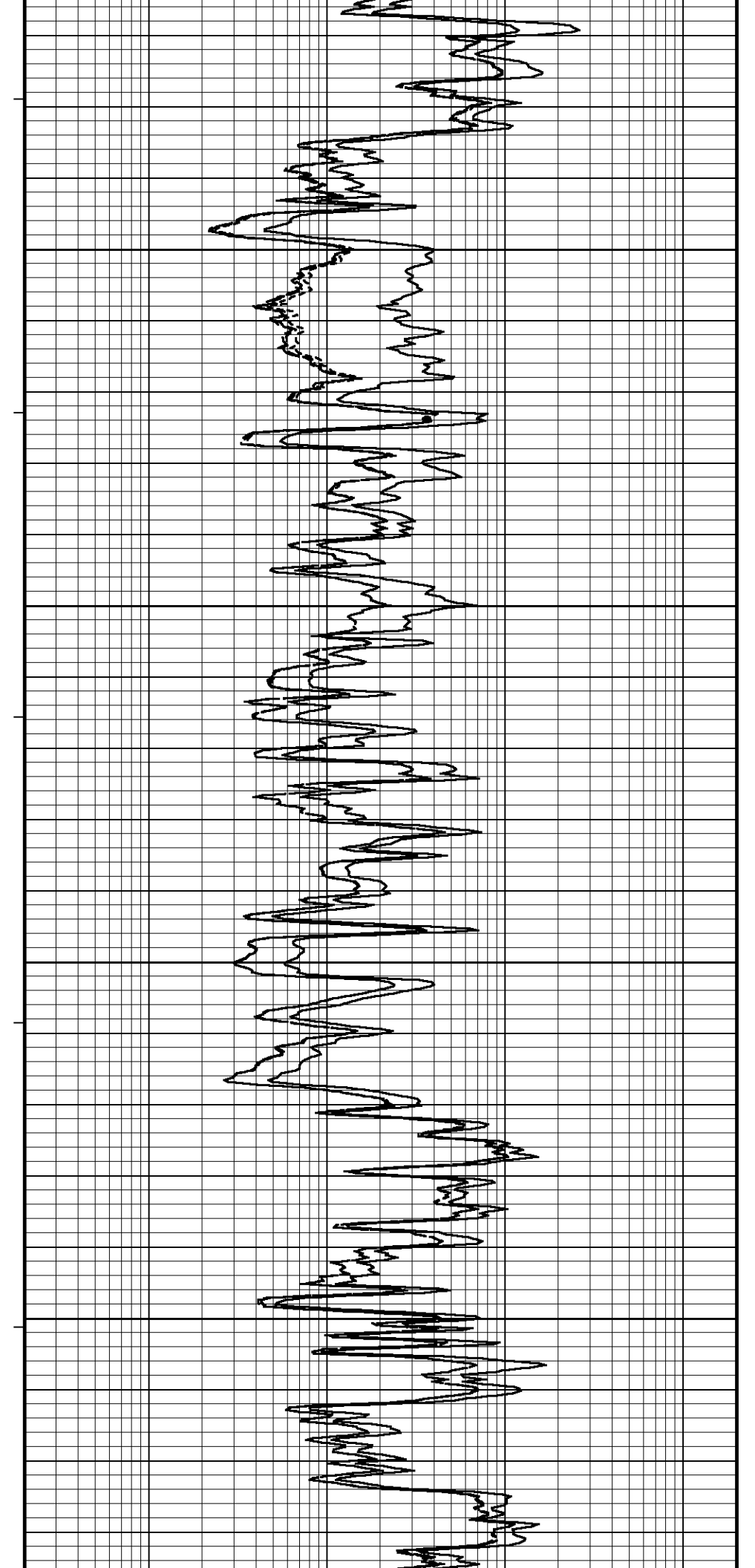
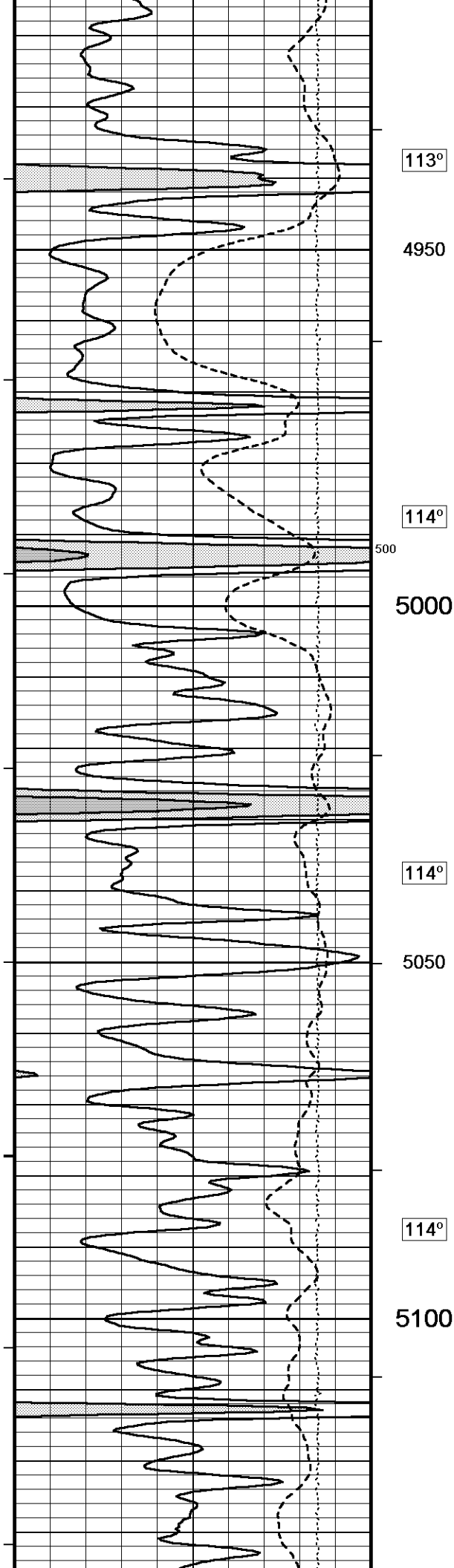
111°
4600

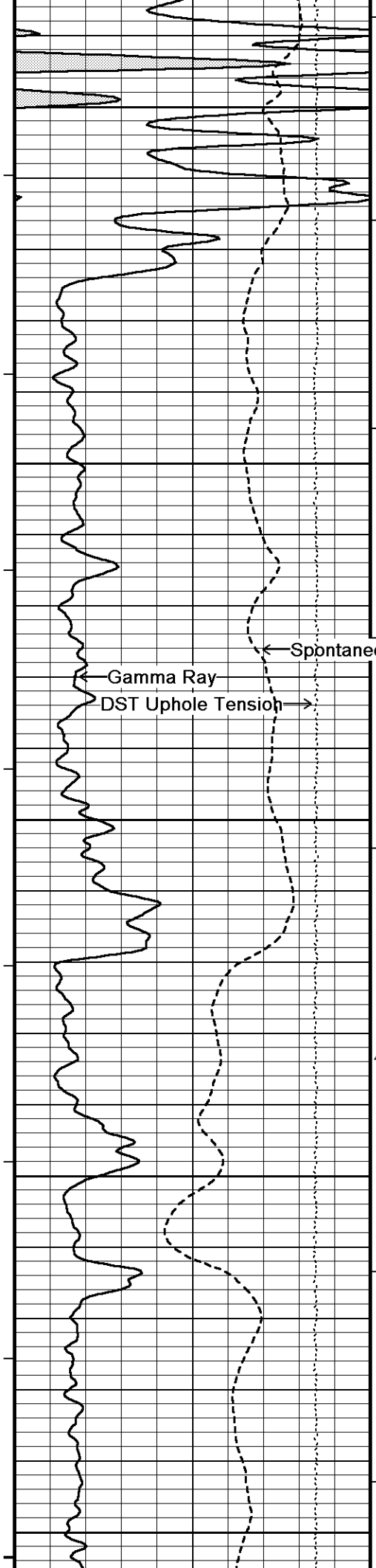
111°
4650

112°









115°
300
5150
115°
5200
115°
5250
400
116°
5300
116°
5350

300

5150

115°

5200

116°

5250

400

116°

5300

116°

5350

Gamma Ray

DST Uphole Tension

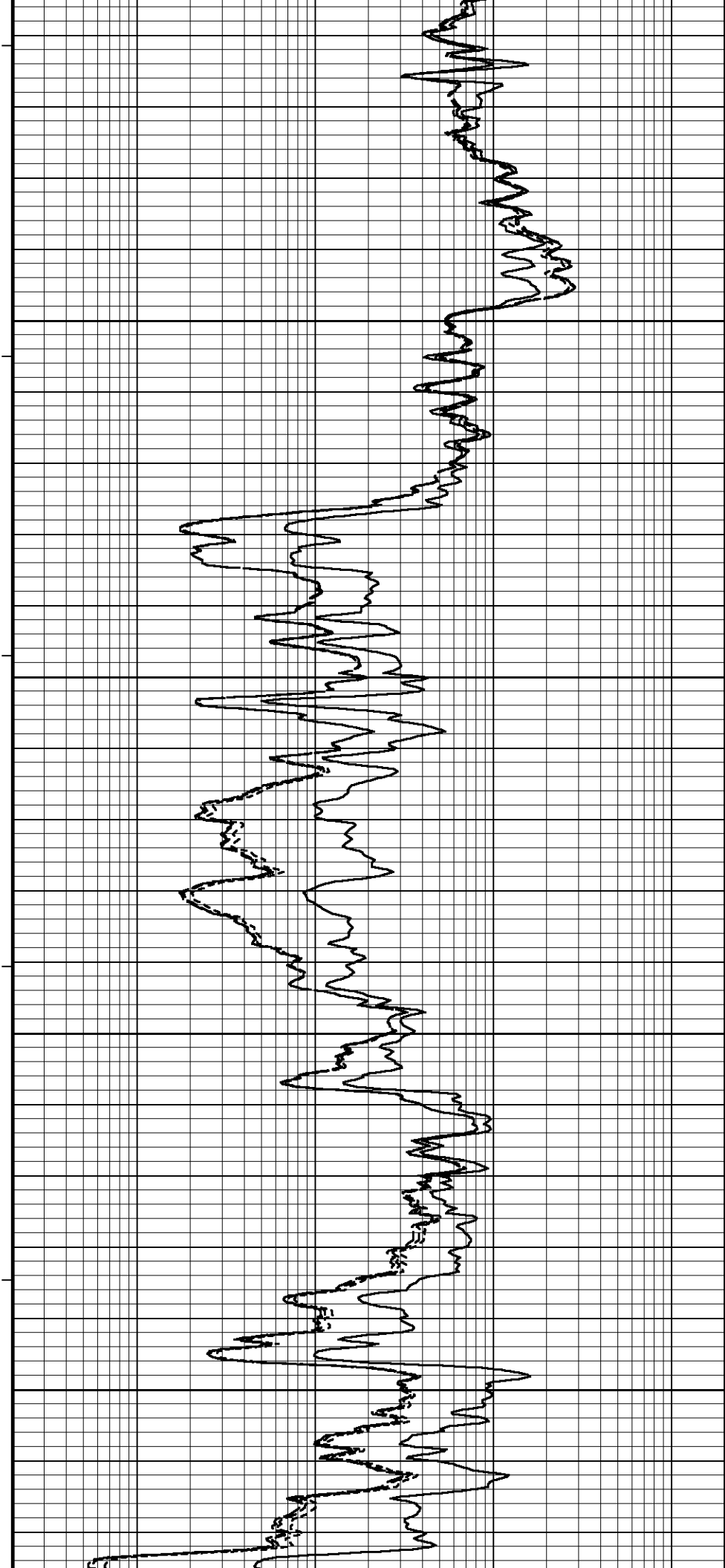
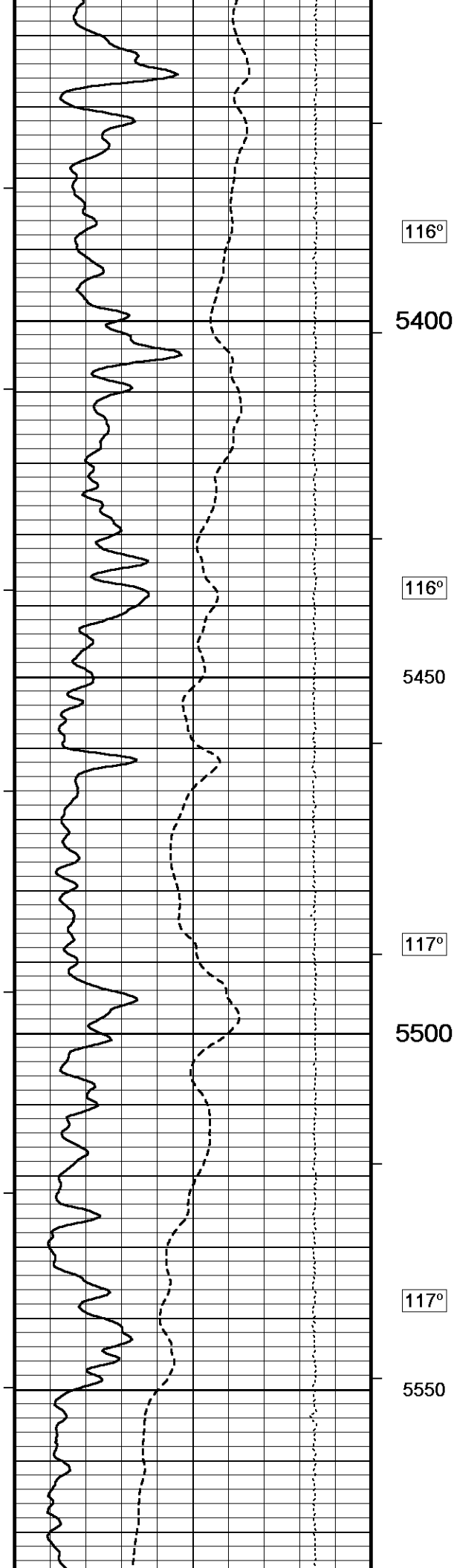
Spontaneous Potential

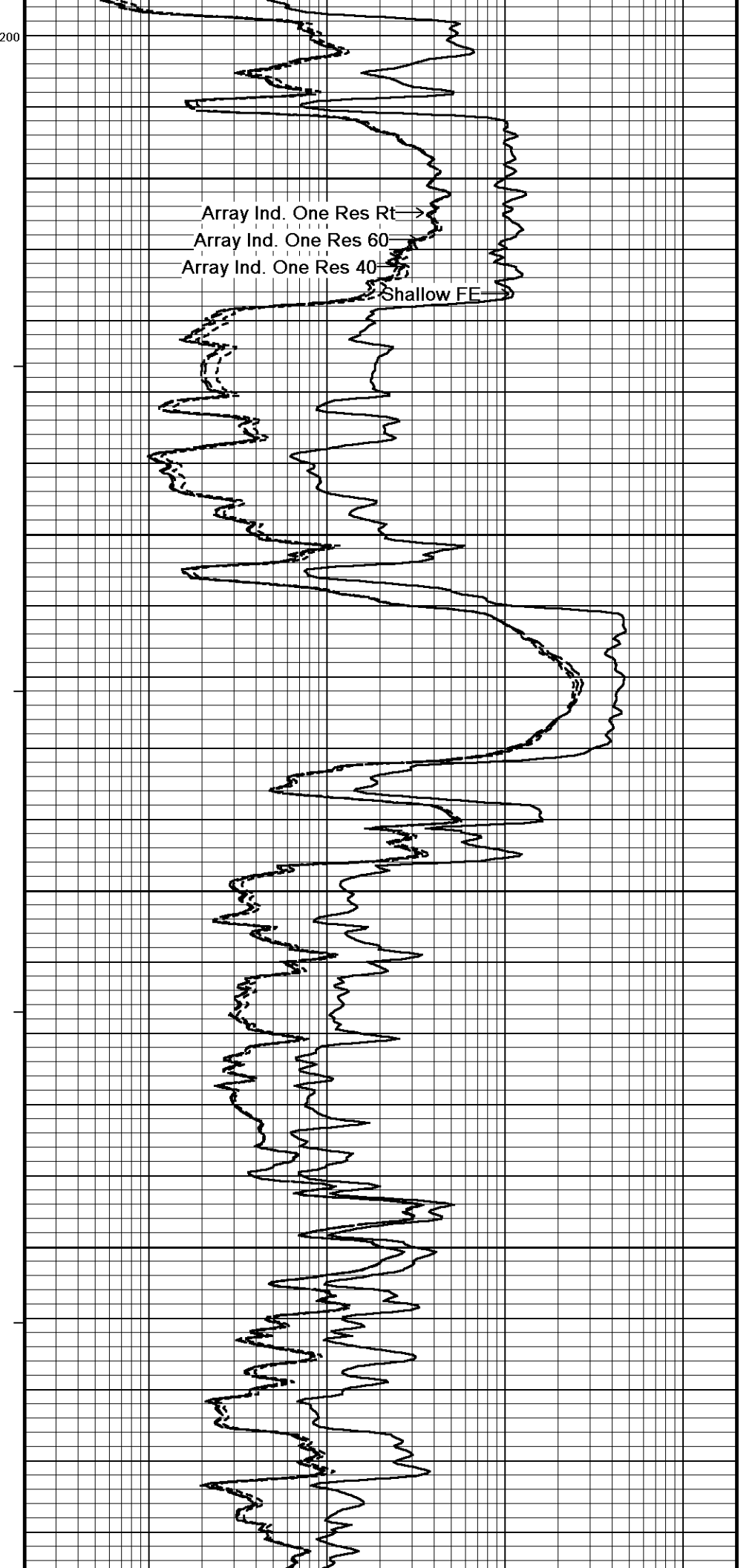
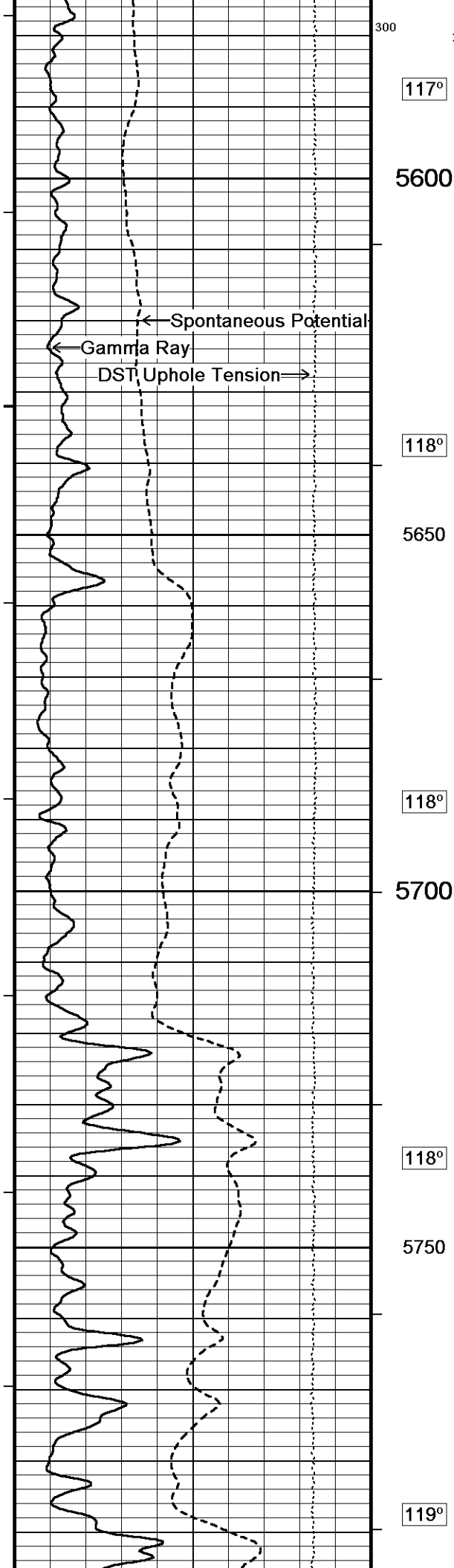
Array Ind. One Res Rt

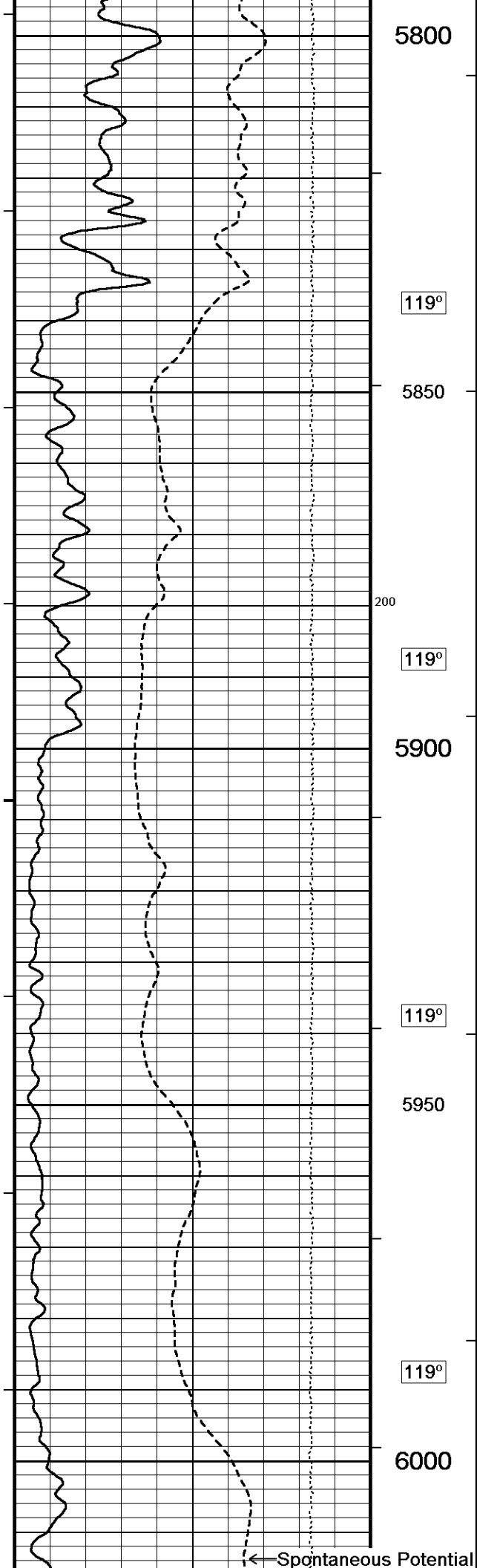
Array Ind. One Res 60

Array Ind. One Res 40

Shallow FE







5800

119°

5850

200

119°

5900

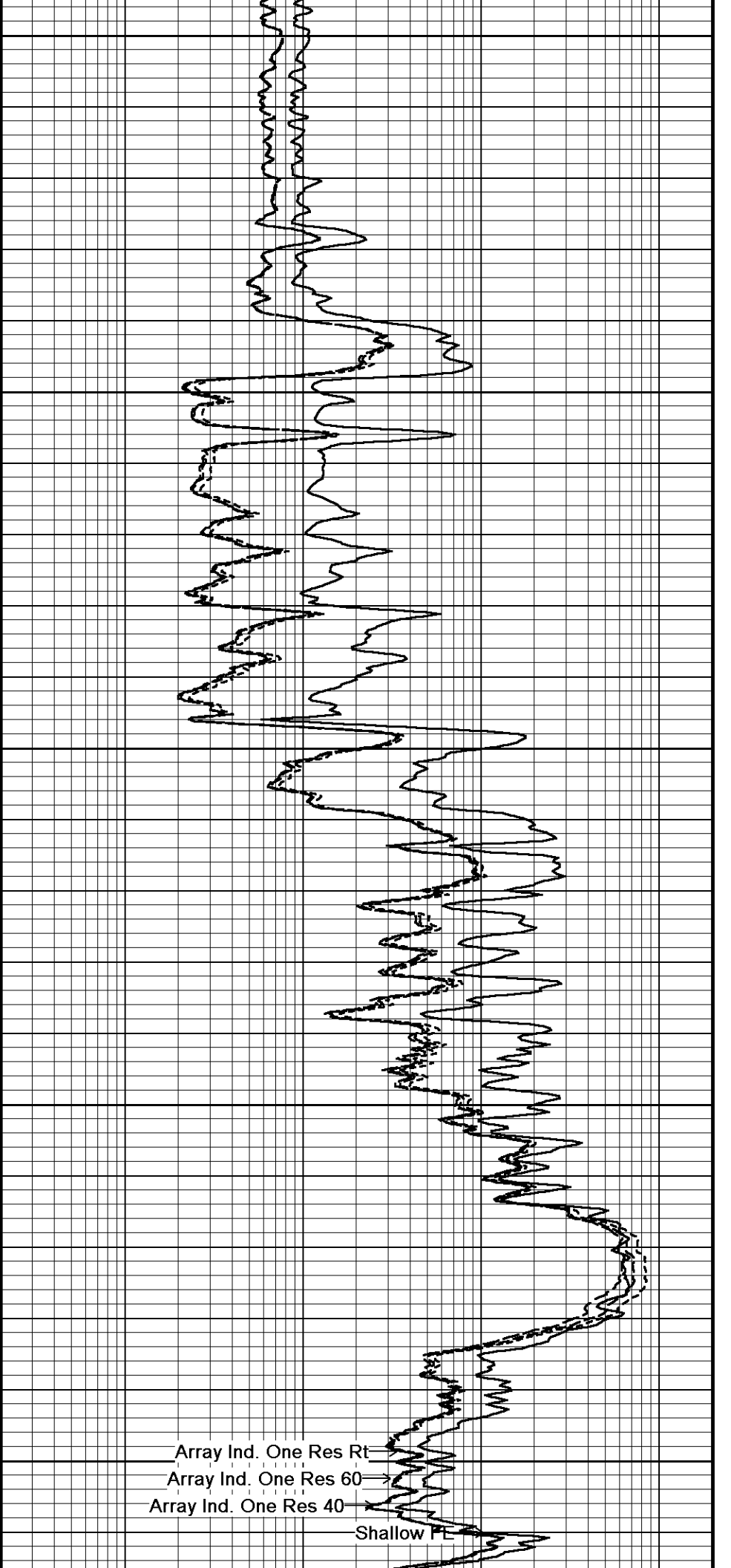
119°

5950

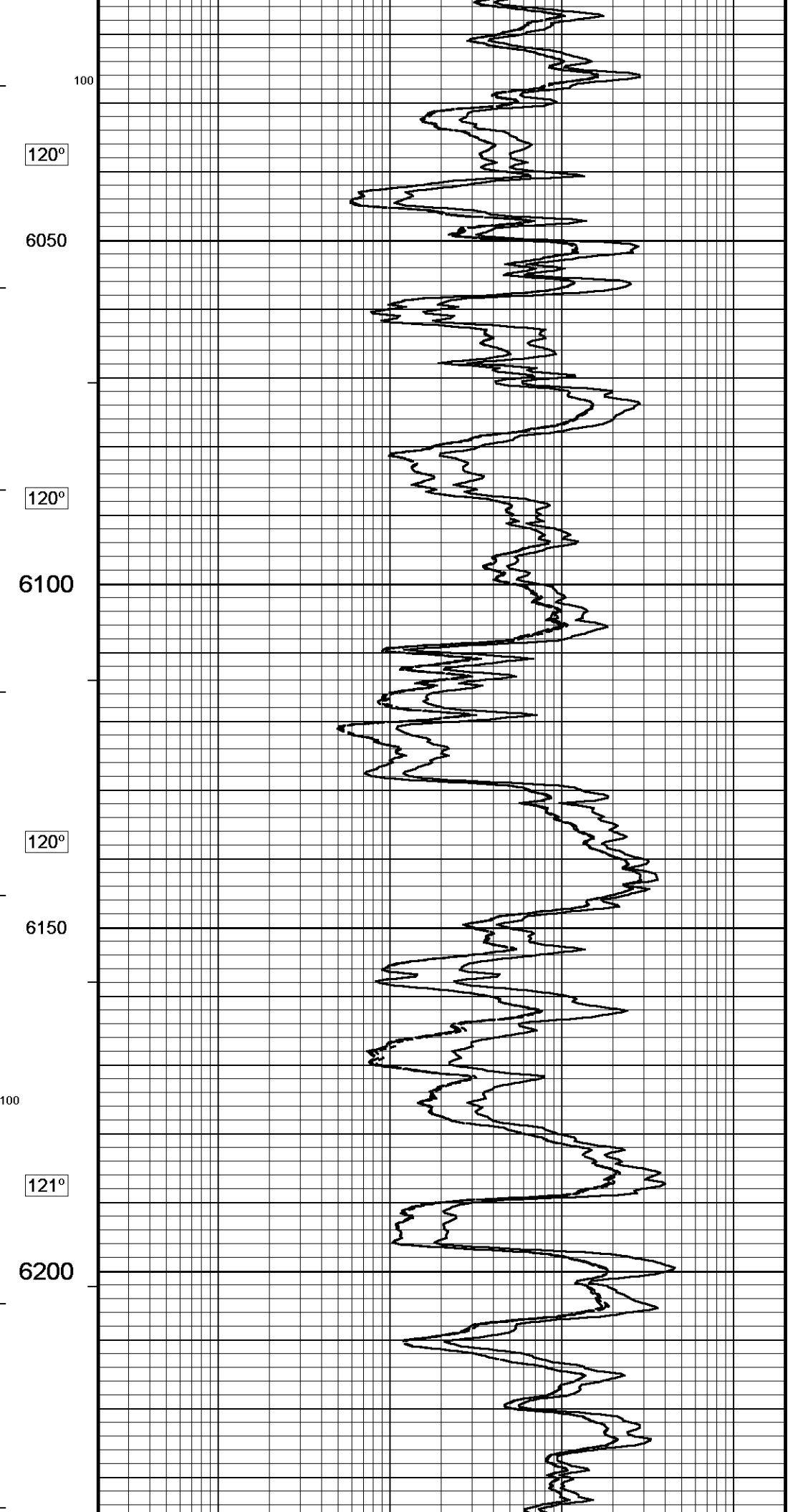
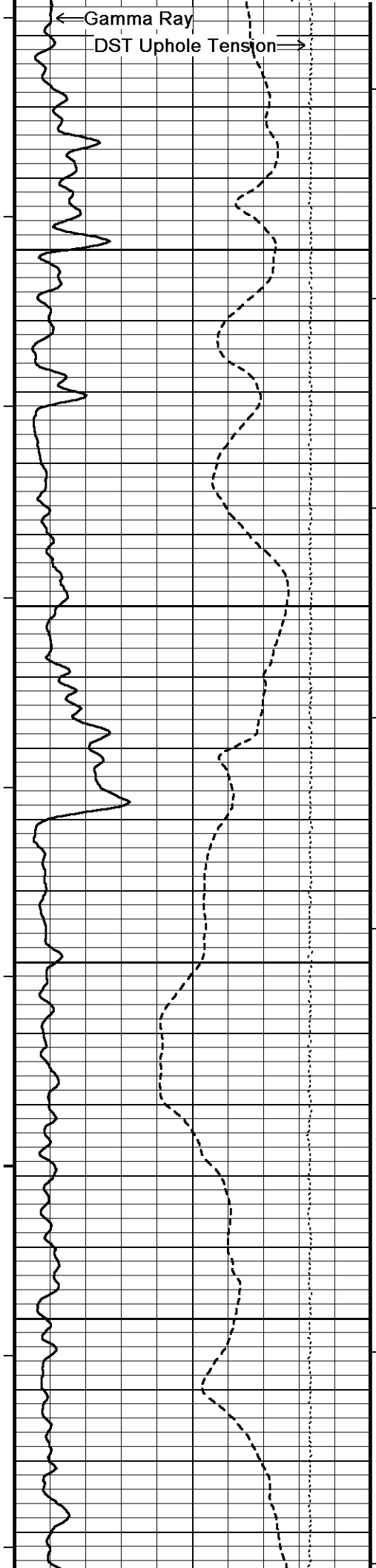
119°

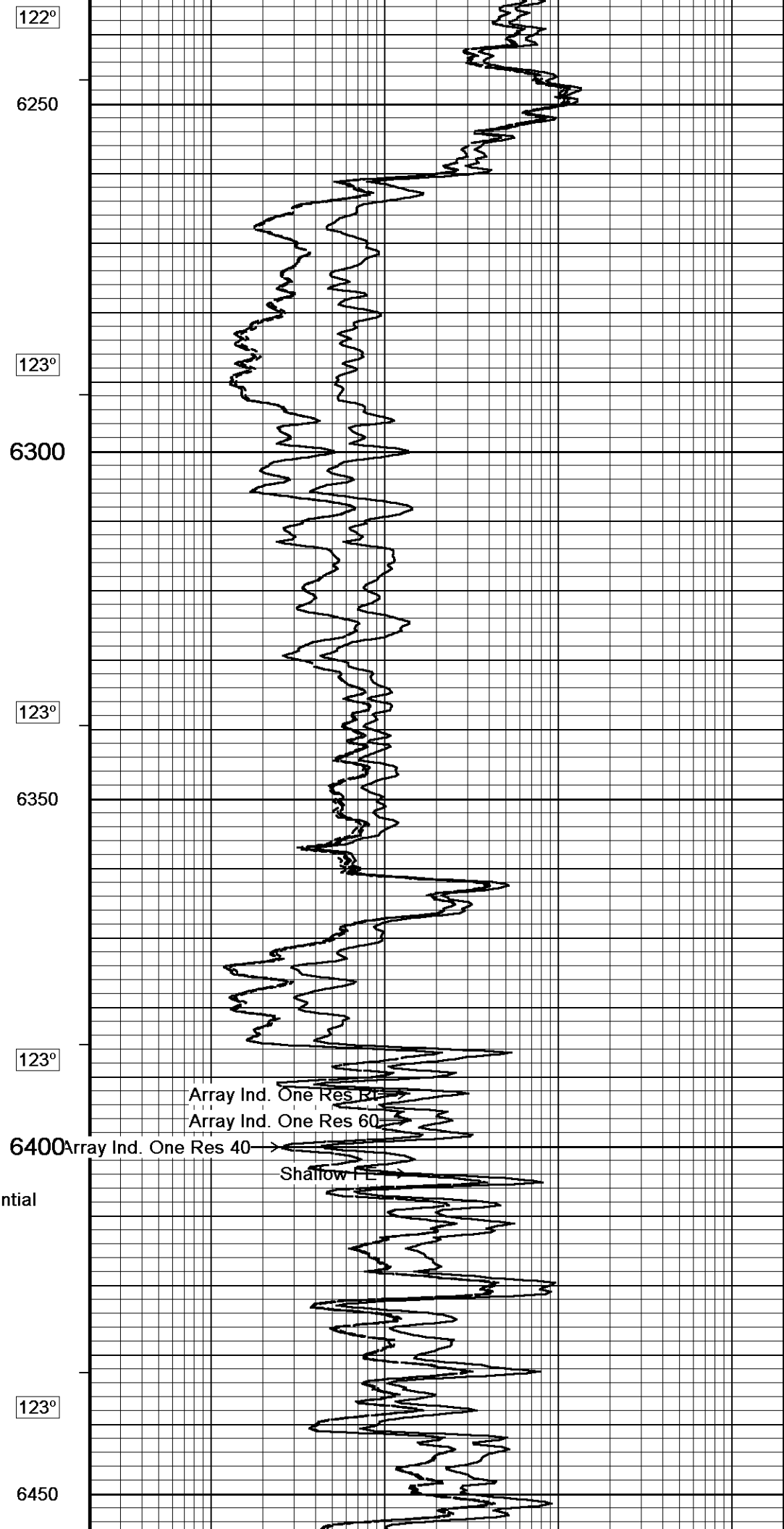
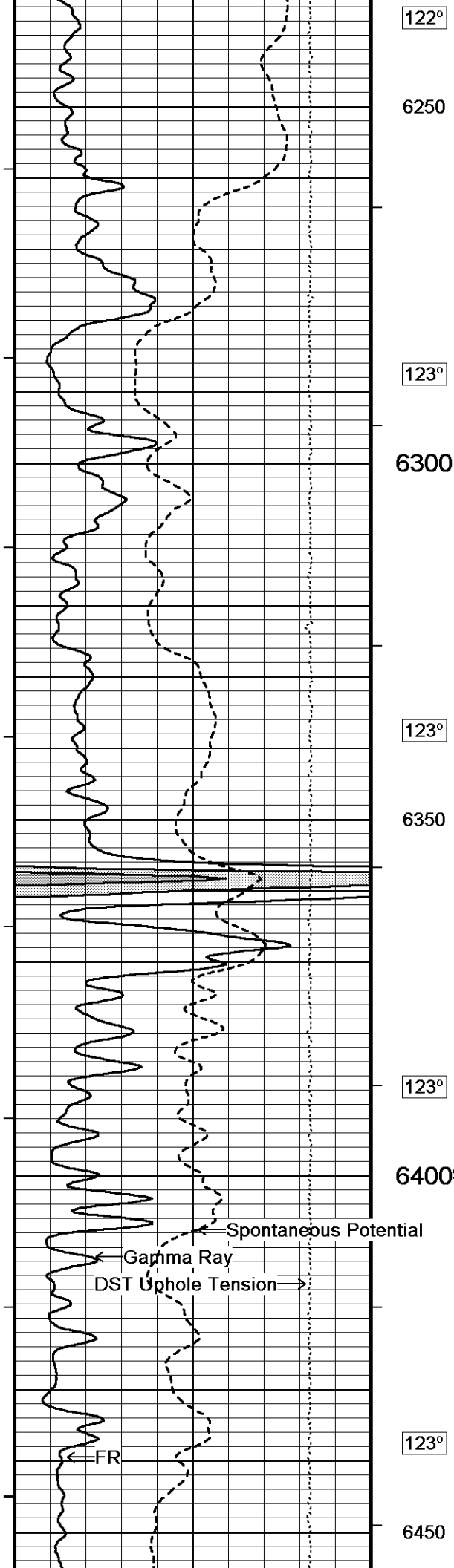
6000

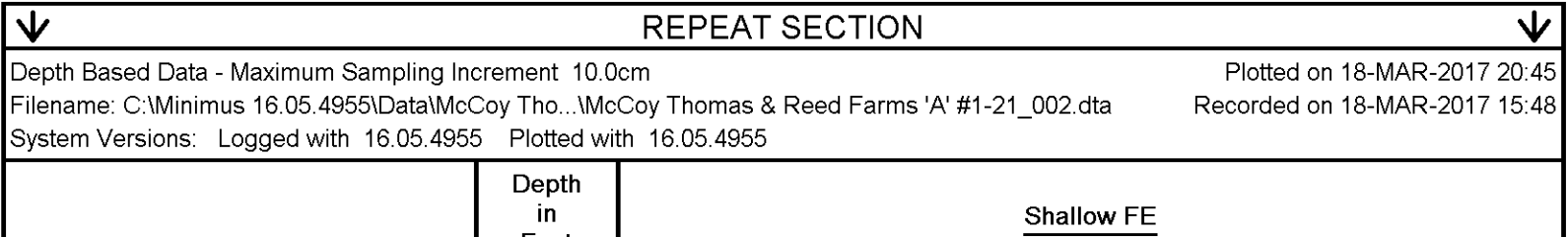
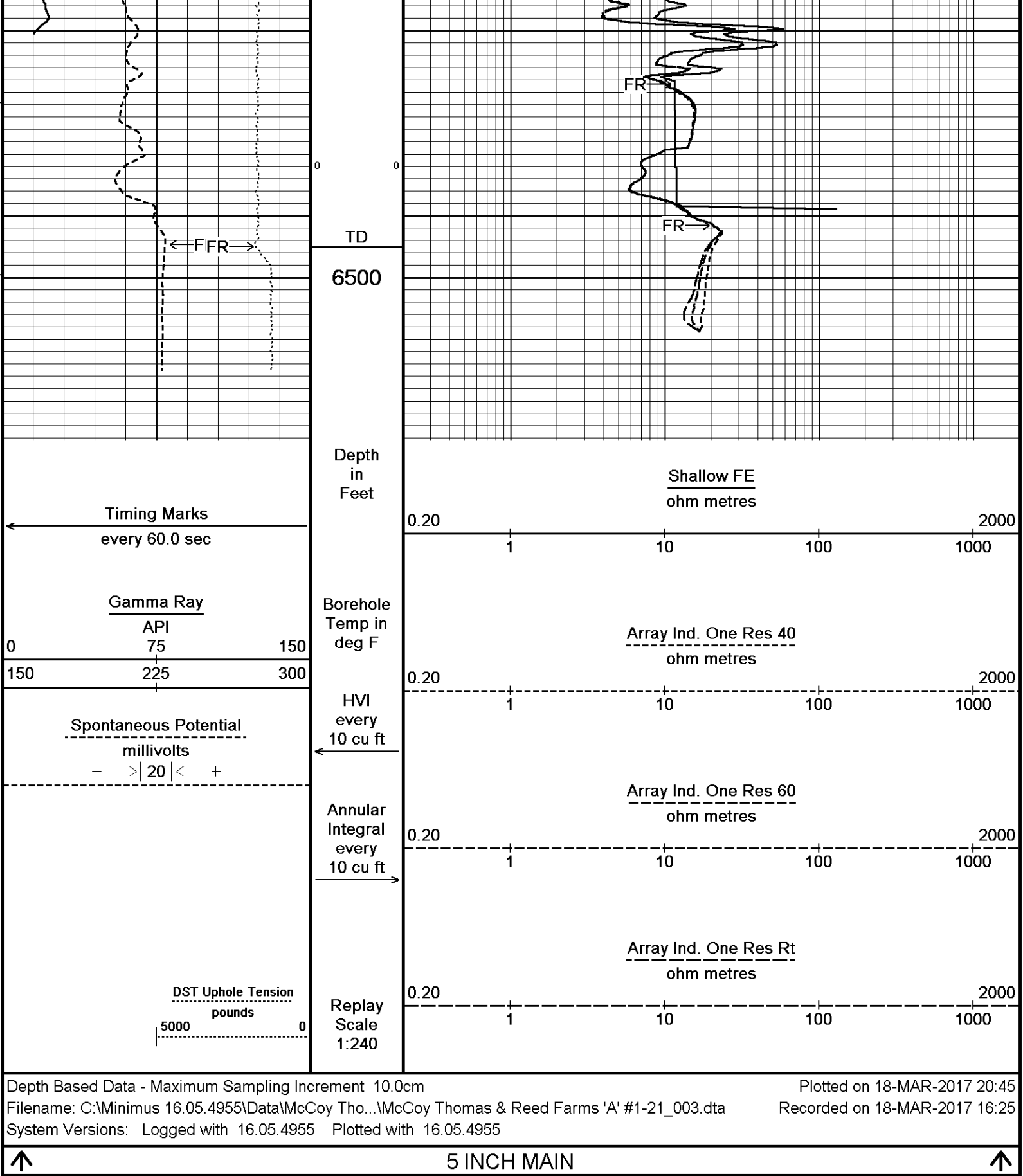
← Spontaneous Potential

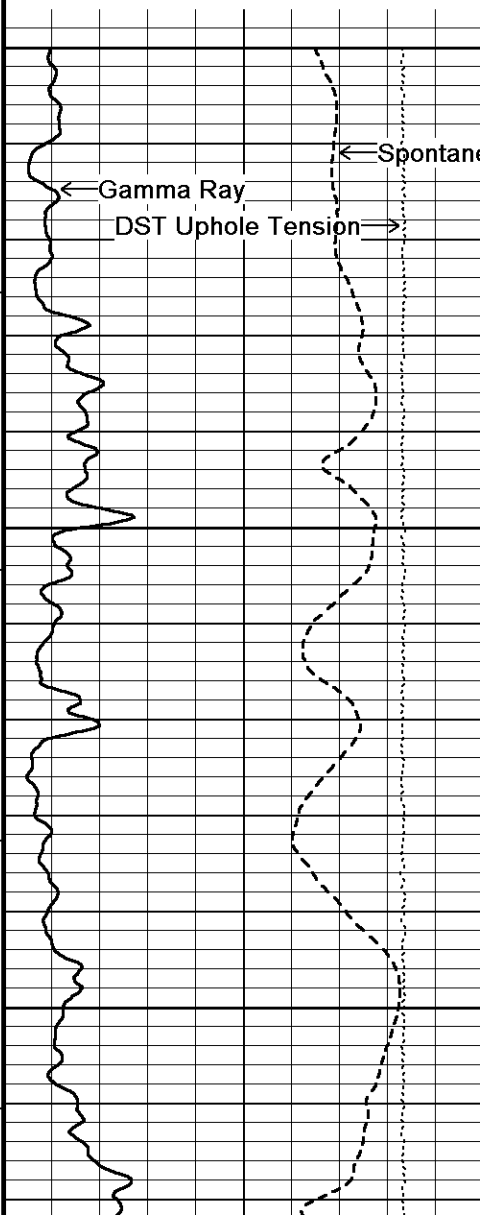
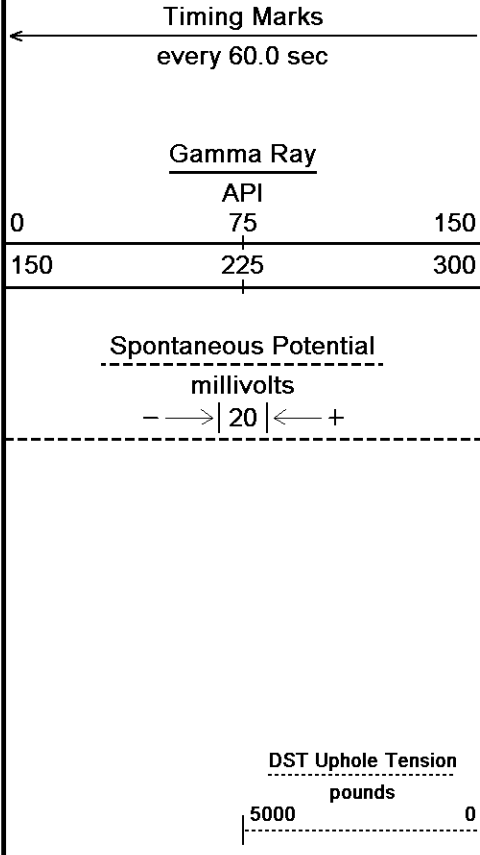


Array Ind. One Res Rt
Array Ind. One Res 60
Array Ind. One Res 40
Shallow PL









Feet

Borehole
Temp in
deg F

HVI
every
10 cu ft

Annular
Integral
every
10 cu ft

Replay
Scale
1:240

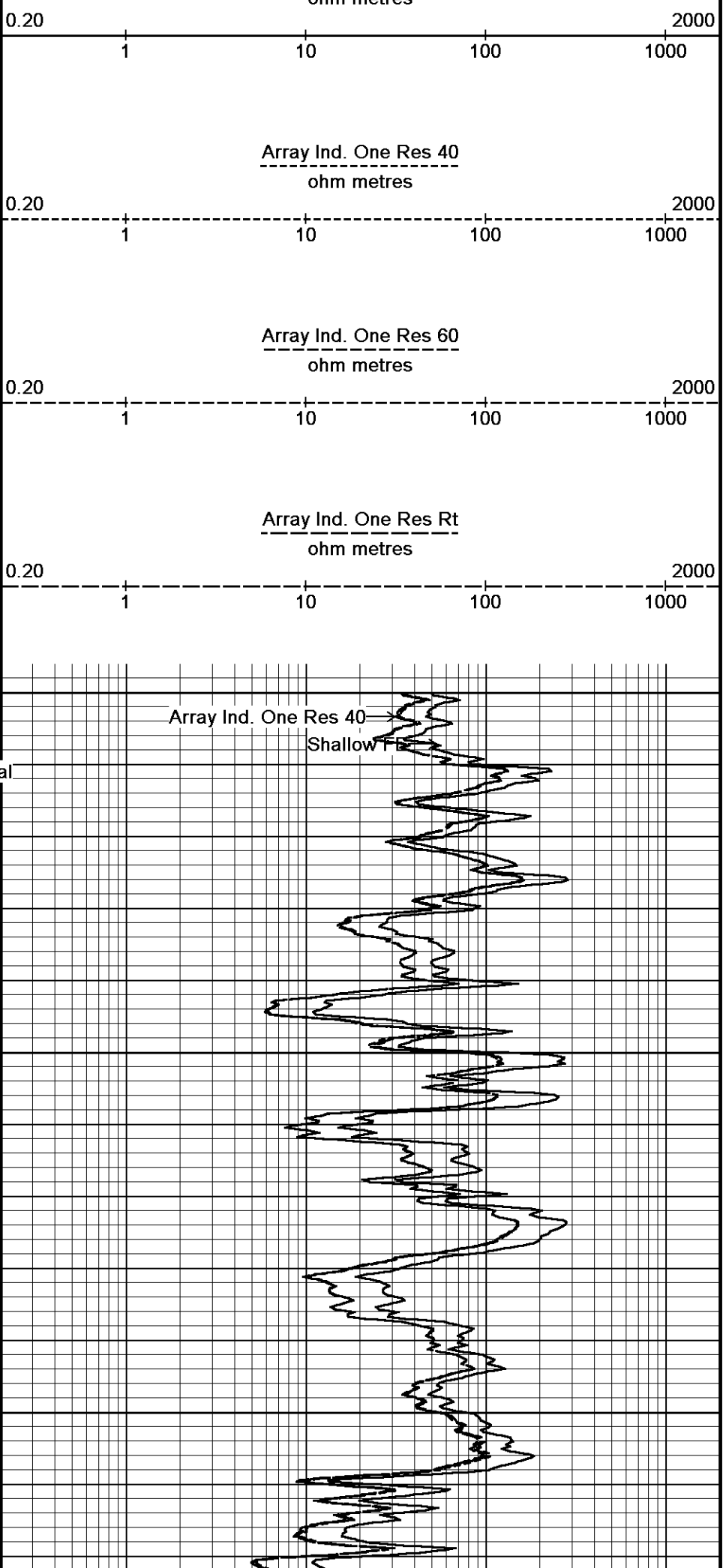
6000

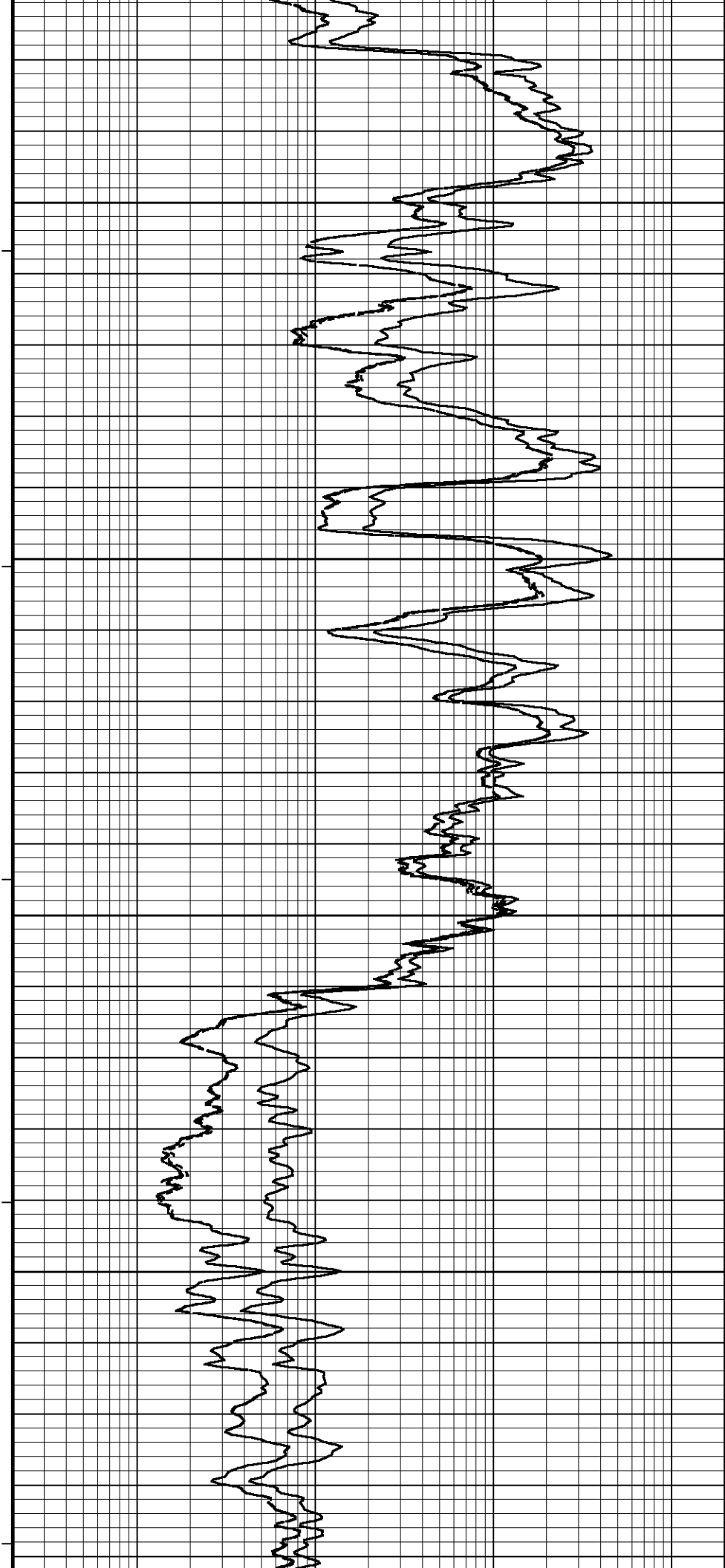
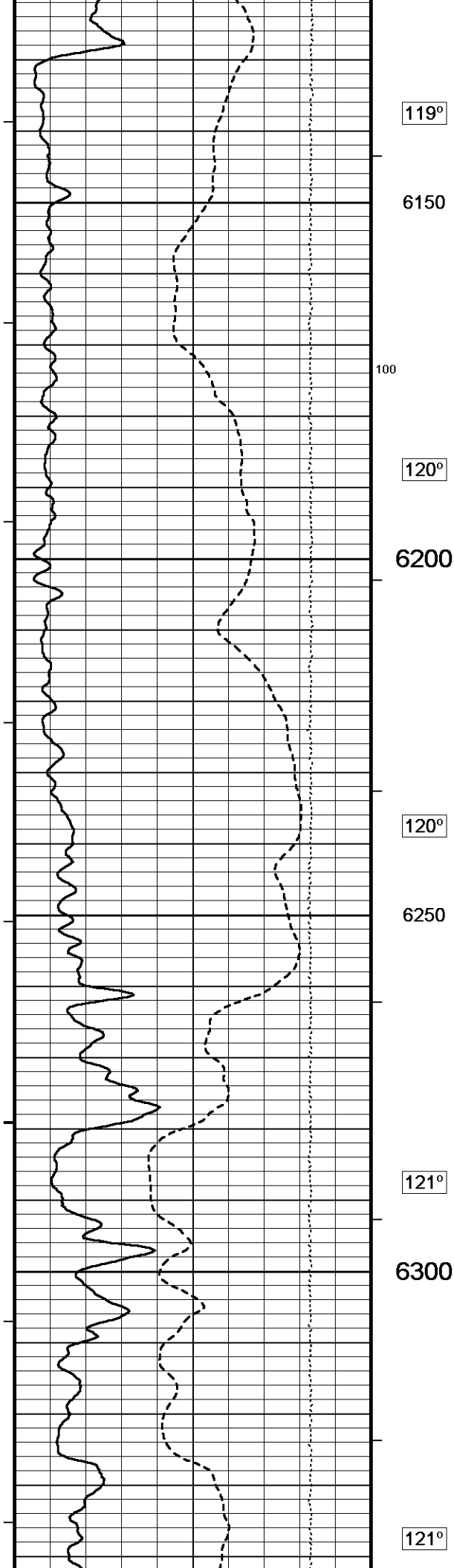
119°

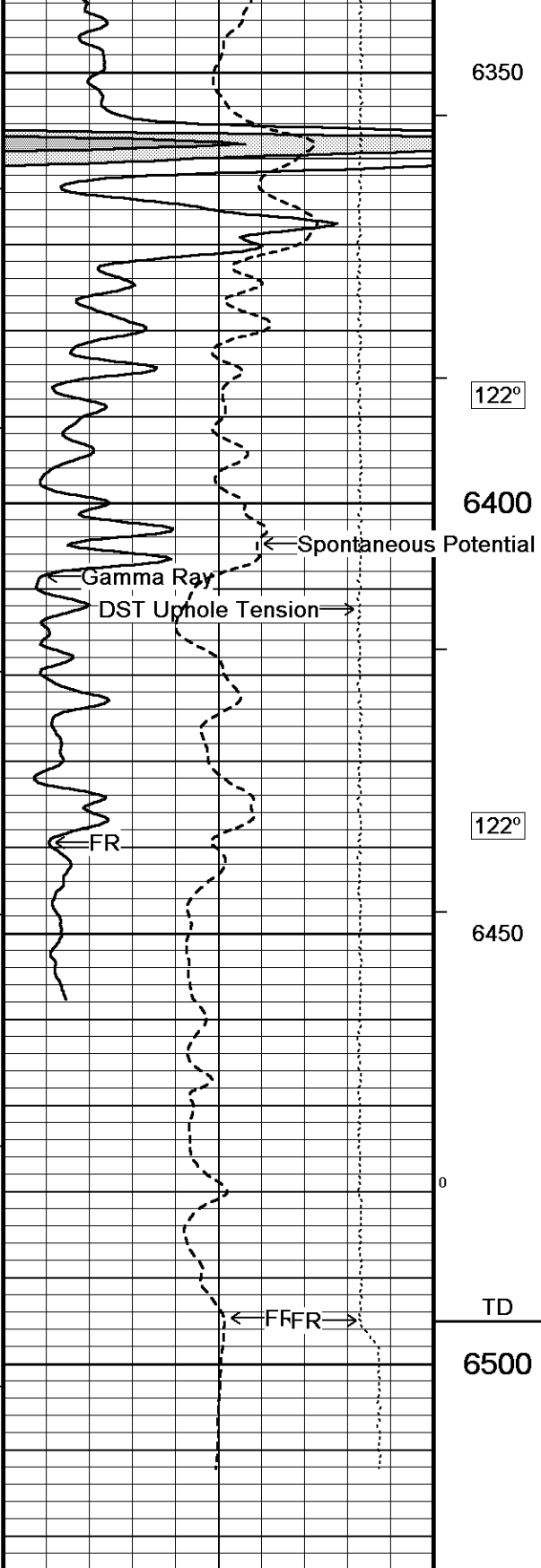
6050

119°

6100





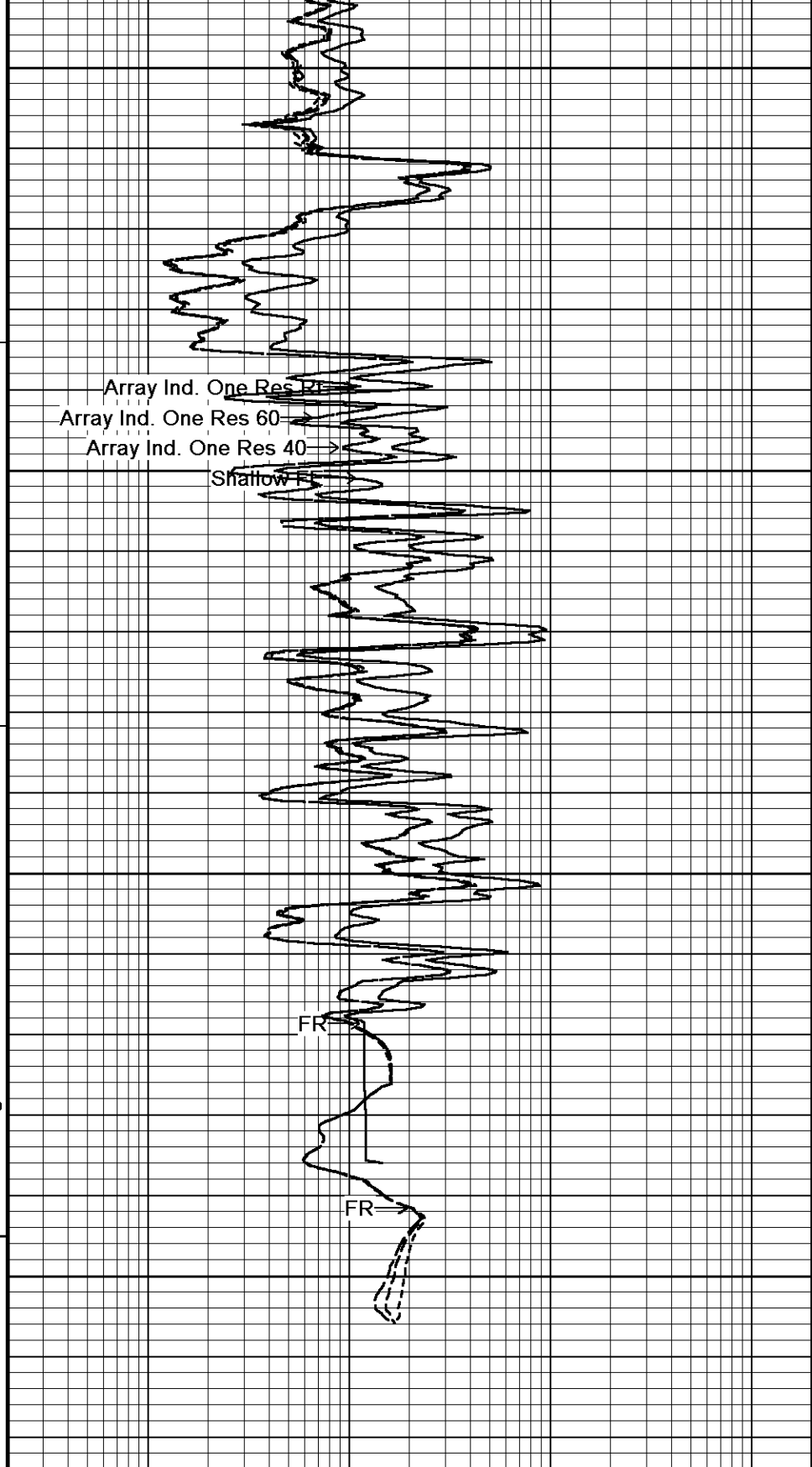


Timing Marks
every 60.0 sec

Gamma Ray
API
0 75 150
150 225 300

Depth
in
Feet

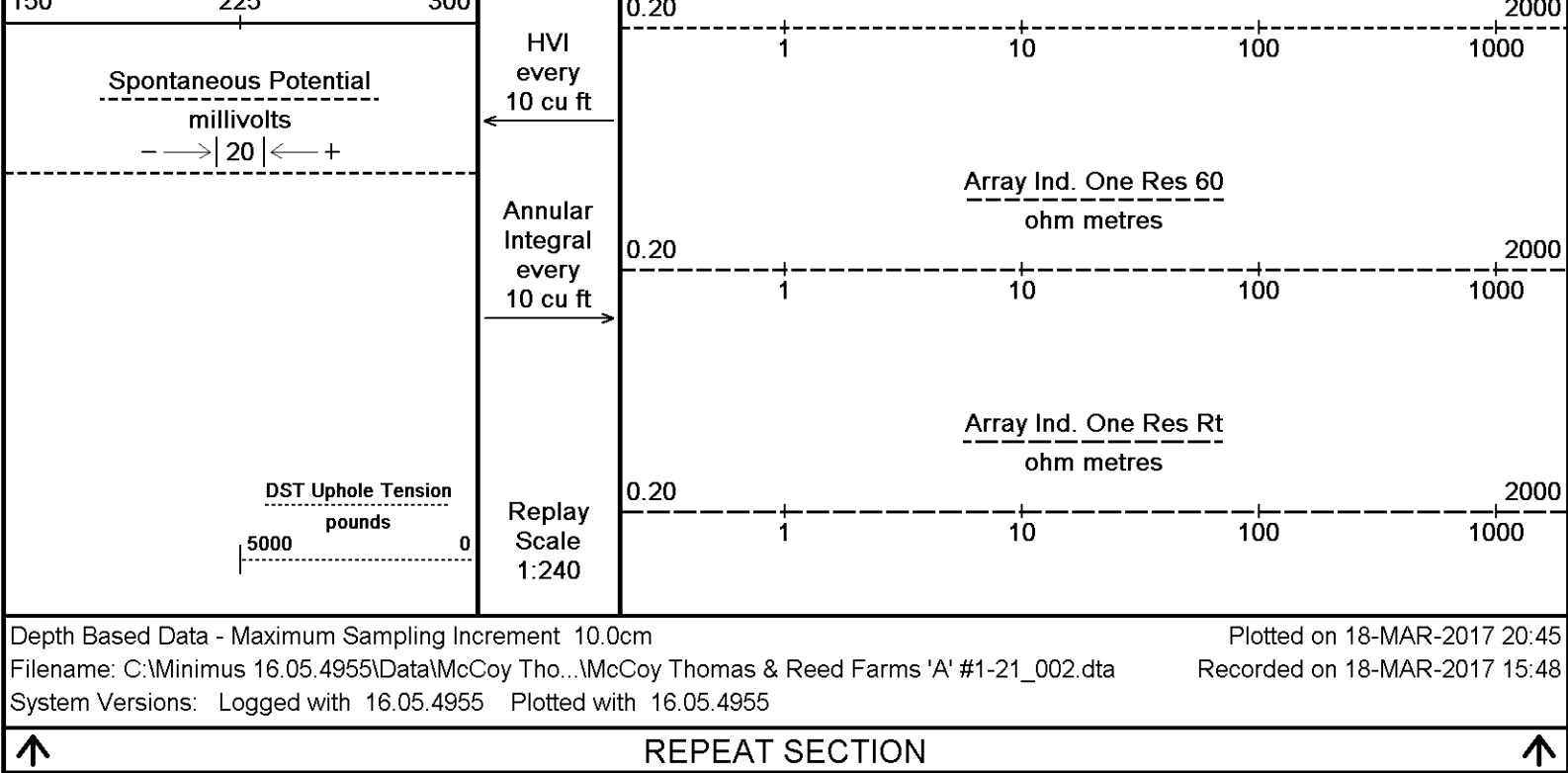
Borehole
Temp in
deg F



Shallow FE
ohm metres

0.20 1 10 100 1000 2000

Array Ind. One Res 40
ohm metres



BEFORE SURVEY CALIBRATION			
C:\Minimus 16.05.4955\Data\McCoy Thomas & Reed Farms 'A' #1-21\McCoy Thomas & Reed Farms 'A' #1-21_002.dta			
General Constants All 000		Last Edited on 18-MAR-2017,15:11	
General Parameters			
Mud Resistivity	1.030	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	4.500	inches	
Caliper for Differential Caliper	None		
Rwa Parameters			
Porosity used	Base Density Porosity		
Resistivity used	Array Ind. One Res Rt		
RWA Constant A	0.620		
RWA Constant M	2.150		
SW/APOR Tool Source	0.000		
Down-hole Tension Calibration SMS 0		Field Calibration on 12-MAR-2017 14:30	
Reading No	Measured	Calibrated (lbs)	
1	16170.41	0.00	
2	17035.71	470.00	
Gamma Calibration MCG-C 84		Field Calibration on 18-MAR-2017 07:26	
	Measured	Calibrated (API)	
Background	113	78	
Calibrator (Gross)	777	534	
Calibrator (Net)	664	456	
Gamma Calibration Tolerances MCG-C 84			
Ratio	1.456		Counts/API
Gamma Constants MCG-C 84		Last Edited on 18-MAR-2017,10:21	

Gamma Calibrator Number	MCGGRCC141	
GRC-M Calibrator Jig in Use?	NO	
Inactive Background Jig in Use?	NO	
Mud Density	1.08	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Potassium Equivalence	Chloride	
K Mud Concentration	0.00	%

SP Calibration MCG-C 84

Field Calibration on 09-MAR-2017 17:03

	Measured	Calibrated (mV)
Reference 1	104.4	100.1
Reference 2	-95.8	-100.1

High Resolution Temperature Calibration MCG-C 84

Field Calibration on 09-MAR-2017,16:16

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

High Resolution Temperature Constants MCG-C 84

Last Edited on 09-SEP-2014,02:23

Pre-filter Length 11

Caliper Calibration MML-A 7

Base Calibration on 06-MAR-2017 15:09

Field Calibration on 18-MAR-2017 14:37

Base Calibration		
Reading No	Measured	Calibrator Size (in)
1	14079	5.98
2	17378	7.97
3	20596	9.86
4	24537	11.92
5	0	0.00
6	N/A	N/A

Field Calibration		
	Measured Caliper (in)	Actual Caliper (in)
	8.02	8.10

Caliper Calibration Tolerances MML-A 7

Short Arm Field Cal. 8.02  in

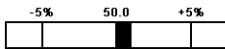
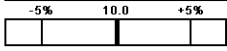
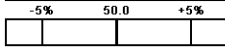
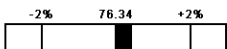
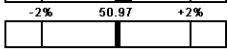
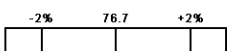
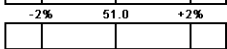
Micro Normal and Micro Inverse Calibration MML-A 7

Base Calibration on 06-MAR-2017 15:18

Field Check on 18-MAR-2017 14:40

Base Calibration				
Channel	Resistor 1	Measured Resistor 2	Calibrated (ohm-m) Resistor 1	Resistor 2
Micro Normal	10.3	50.5	5.1	25.6
Micro Inverse	10.0	50.1	3.4	16.9
Channel	Base Check (ohm-m)		Field Check (ohm-m)	
Micro Normal	76.7		76.7	
Micro Inverse	51.0		51.0	

Micro Normal & Micro Inverse Calibration Tolerance MML-A 7

Micro Normal Res. 1	10.3		ohm	Micro Normal Res. 2	50.5		ohm
Micro Inverse Res. 1	10.0		ohm	Micro Inverse Res. 2	50.1		ohm
Micro Normal Base Check	76.7		ohm-m				
Micro Inverse Base Check	51.0		ohm-m				
Micro Normal Field Check	76.7		ohm-m				
Micro Inverse Field Check	51.0		ohm-m				

Micro Normal and Micro Inverse Constants MML-A 7

Last Edited on 18-MAR-2017,14:38

Pad Type 8-12 in Soft Rubber Inflatable 006-9011-159

Pad Type	0.12 in. Soft Rubber	0.5110	
Micro Normal K Factor		0.3380	
Micro Inverse K Factor		N/A	inches
Standoff Offset			

Neutron Calibration MDN-A.B 114

Base Calibration on 07-MAR-2017 19:13
Field Check on 18-MAR-2017 07:31

Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	3042	94	3714	110
Ratio	32.298		33.764	

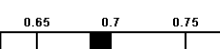
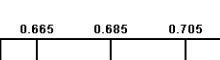
Field Calibrator at Base

	Calibrated (cps)
	2149 3135
Ratio	0.685

Field Check

	Calibrated (cps)
	2144 3130
Ratio	0.685

Neutron Calibration Tolerances MDN-A.B 114

Ratio	32.298	
Base Check	0.685	
Field Check	0.685	

Neutron Constants MDN-A.B 114

Last Edited on 18-MAR-2017,14:40

Neutron Source Id	P0204NN	
Neutron Jig Number	NJ5736	
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 135

Base Calibration on 06-MAR-2017 14:24
Field Check on 18-MAR-2017 14:22

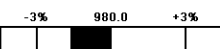
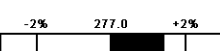
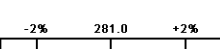
Base Calibration

	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	963.7	126.8

Base Check	281.0
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Field Check	280.9
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FE Calibration Tolerances MFE-A.A 135

Reference 2	963.7		ohm
Base Check	281.0		ohm-m
Field Check	280.9		ohm-m

FE Constants MFE-A.A 135

Last Edited on 18-MAR-2017,14:21

Running Mode	No Sleeve
MFE K Factor	0.1268

Borehole Correction Constants		
Sonde Position	0.5	inches
Hole Size Source	Density Caliper	
Hole Size Constant Value	N/A	inches
Rm Source	Global Value: Constant Temperature	
Temp. for Rm Corr.	N/A	

Sonic Constants MSS-A.A 55

Last Edited on 18-MAR-2017,10:20

Maximum Boundary Contrast	100.00	micro-sec/ft
Fluid Transit Time	189.00	micro-sec/ft
Limestone Transit Time	47.50	micro-sec/ft
Sandstone Transit Time	55.50	micro-sec/ft
Dolomite Transit Time	43.50	micro-sec/ft
Sonic used for Porosities	3-5' Compensated Sonic	
Correction for Sonde Skew	Applied	
Cycle Stretch Algorithm	Applied	
MN3FT	N/A	micro-sec
MX3FT	N/A	micro-sec
Hunt-Raymer Constant	83.13	micro-sec/ft

Sonde Mode	Compensated
Hole Type	Open Hole

Sonde Parameters

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

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

Processed Fixed Gate Parameters

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

Full Waveform Parameters

Use 3' Waveform to derive TR	N/A	
Use 4' Waveform to derive TR	N/A	
Use 5' Waveform to derive TR	N/A	
Use 6' Waveform to derive TR	N/A	
3' Waveform Discriminator Level	N/A	mV
4' Waveform Discriminator Level	N/A	mV
5' Waveform Discriminator Level	N/A	mV
6' Waveform Discriminator Level	N/A	mV

Waveform Discriminator Filter	N/A	
Semblance Window Width	N/A	micro-sec
Sonic Despiker	N/A	N/A

Induction Calibration MAI-A.A 111

Base Calibration on 07-MAR-2017 11:32

Field Check on 18-MAR-2017 14:36

Base Calibration

Test Loop Calibration		Measured		Calibrated (mmho/m)	
Channel		Low	High	Low	High
1		17.6	473.6	9.3	966.2
2		6.4	385.9	7.6	821.4

3	3.2	264.0	5.2	566.0
4	2.1	135.5	2.6	279.2

Array Temperature 23.0 Deg F

Test Loop Calibration Verified

Channel	Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High
1	12.0	3868.2	16.1	3871.1
2	29.7	3524.8	32.3	3525.1
3	29.0	3018.9	31.1	3018.6
4	19.1	2056.7	20.4	2056.5
Deep	17.6	1960.5	19.1	1960.2
Medium	43.0	3973.6	45.5	3972.7
Shallow	44.3	5227.8	48.0	5228.5
Array Temperature	64.6		91.6	Deg F

Induction Calibration Tolerances MAI-A.A 111

Low Conductivity 1	17.6		mmho/m	High Conductivity 1	473.6		mmho/m
Low Conductivity 2	6.4		mmho/m	High Conductivity 2	385.9		mmho/m
Low Conductivity 3	3.2		mmho/m	High Conductivity 3	264.0		mmho/m
Low Conductivity 4	2.1		mmho/m	High Conductivity 4	135.5		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 111

Last Edited on 18-MAR-2017,14:34

Induction Model RtAP-WBM

Borehole Correction Constants

Tool Centred	No	
Hole Size Source	Density Caliper	
Hole Size Constant Value	N/A	inches
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
Rm Source	Global Value: Temperature Corrected	
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

Symmetrised Receiver Gains

Receiver 1	1.00
Receiver 2	1.00
Receiver 3	1.00

Receiver 4	1.00	
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 111			Field Calibration on 09-MAR-2017,23:45
	Measured	Calibrated(Deg F)	
Lower	10.00	10.00	
Upper	100.00	100.00	

High Resolution Temperature Constants MAI-A.A 111		Last Edited on 26-JUN-2014,15:06
Pre-filter Length	11	

Caliper Calibration MPD-C.A 216			Base Calibration on 05-MAR-2017 15:58
			Field Calibration on 18-MAR-2017 14:33
Base Calibration			
Reading No	Measured	Calibrator Size (in)	
1	17457	3.99	
2	27664	5.98	
3	37745	7.97	
4	47504	9.86	
5	58688	11.92	
6	N/A	N/A	
Field Calibration			
	Measured Caliper (in)	Actual Caliper (in)	
	8.06	8.10	

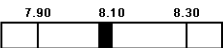
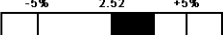
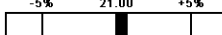
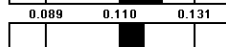
Caliper Calibration Tolerances MPD-C.A 216	
Short Arm Field Cal.	8.06  in

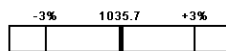
Photo Density Calibration MPD-C.A 216					Base Calibration on 05-MAR-2017 16:29	
					Field Check on 18-MAR-2017 14:21	
Density Calibration						
Base Calibration		Measured		Calibrated (sdu)		
		Near	Far	Near	Far	
	Background	1036	1224			
	Reference 1	51866	24752	59556	30836	
	Reference 2	20639	2335	24941	2541	
Field Check at Base						
		1035.7	1223.7			
Field Check						
		1037.3	1227.7			
PE Calibration						
Base Calibration		Measured		Calibrated		
	WS	WH	Ratio	Ratio		
	Background	191	930			
	Reference 1	21544	51698	0.421	0.371	
	Reference 2	5964	20523	0.295	0.272	
Field Check at Base						
		190.5	930.0			
Field Check						
		189.8	933.1			

Photo Density Calibration Tolerances MPD-C.A 216	
Near Density Ratio	2.59 
Far Density Ratio	21.17 

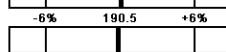
PE Calibration 0.117



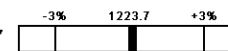
Near Den. Field Check 1037.3



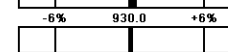
PE WS Field Check 189.8



Far Den. Field Check 1227.7



PE WH Field Check 933.1



Density Constants MPD-C.A 216

Last Edited on 18-MAR-2017,14:21

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 1.08 gm/cc
Mud Density Z/A Multiplier 1.11
Mud Filtrate Density 1.00 gm/cc
Dry Hole Mud Filtrate Density 1.00 gm/cc
DNCT 0.00 gm/cc
CRCT 0.00 gm/cc
Density Z/A Correction Hybrid
Precision Enhanced Density Processing Not Applied

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

DOWNHOLE EQUIPMENT

C:\Minimus 16.05.4955\Data\McCoy Thomas & Reed Farms 'A' #1-21\McCoy Thomas & Reed Farms 'A' #1-21_002.dta

Cablehead, 11 pin
CBH-C 0 LG: 2.40 ft WT: 24.3 lb OD: 2.244 in

Compact Comms Gamma
MCG-C 84 LG: 8.70 ft WT: 63.9 lb OD: 2.244 in

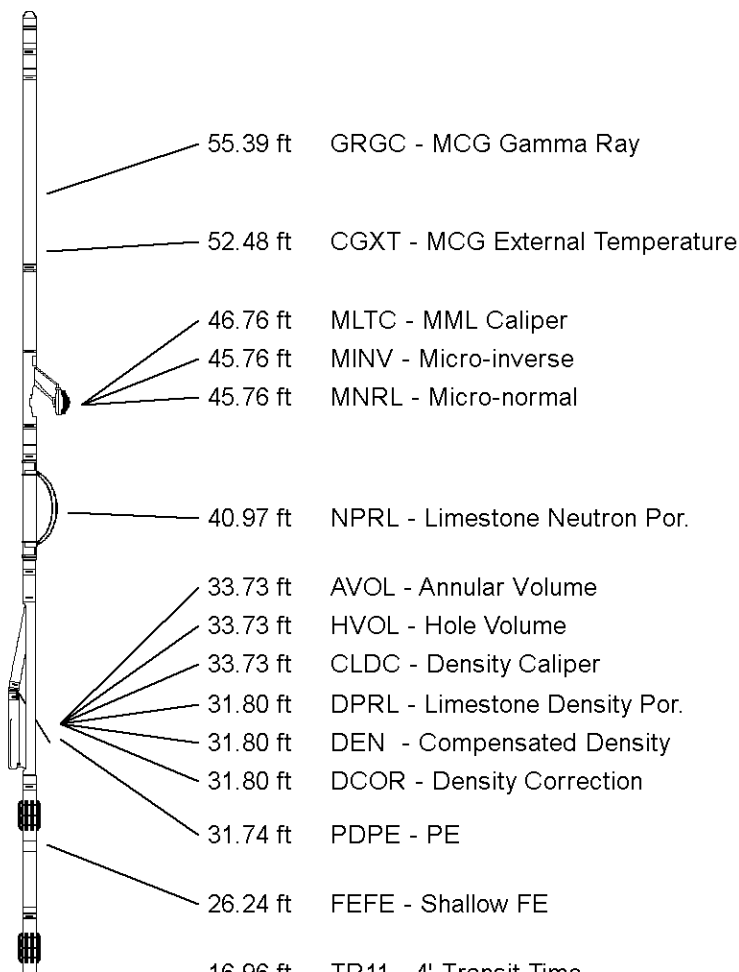
Compact Micro-log
MML-A 7 LG: 7.97 ft WT: 81.6 lb OD: 2.244 in

Compact Neutron
MDN-A.B 114 LG: 5.04 ft WT: 50.7 lb OD: 2.244 in

Compact Density/Caliper
MPD-C.A 216 LG: 9.59 ft WT: 90.4 lb OD: 2.449 in

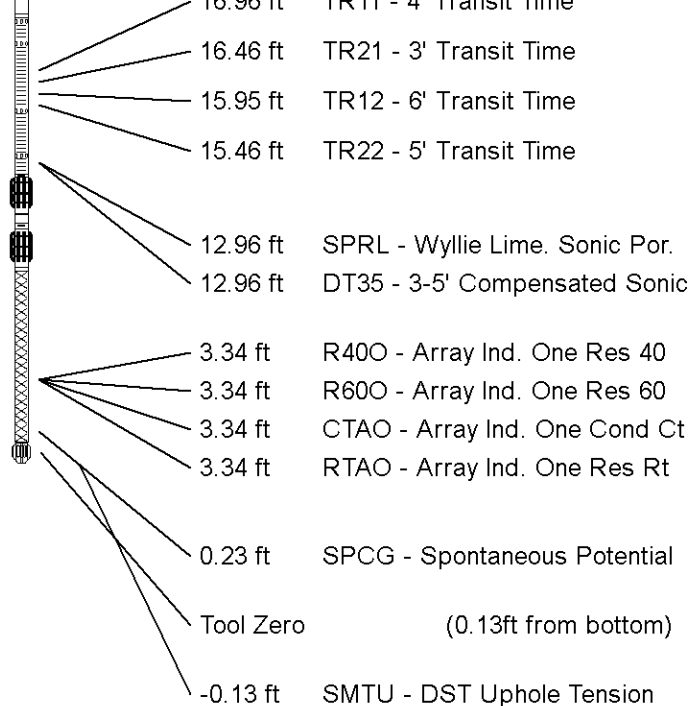
Compact Focussed Electric
MFE-A.A 135 LG: 6.05 ft WT: 48.5 lb OD: 2.244 in

Compact Sonic
MSS-A.A 55 LG: 12.52 ft WT: 72.8 lb OD: 2.244 in



MAI-A.A 111 LG: 10.81 ft WT: 48.5 lb OD: 2.244 in

Total Length: 63.07 ft Weight: 480.6 lb



All measurements relative to tool zero.

COMPANY	McCOY PETROLEUM CORPORATION
WELL	THOMAS & REED FARMS 'A' #1-21
FIELD	WILDCAT
PROVINCE/COUNTY	GRAY
COUNTRY/STATE	U.S.A. / KANSAS

Elevation Kelly Bushing	2739	feet	First Reading	6492.00	feet
Elevation Drill Floor	2737	feet	Depth Driller	6500.00	feet
Elevation Ground Level	2728	feet	Depth Logger	6495.00	feet

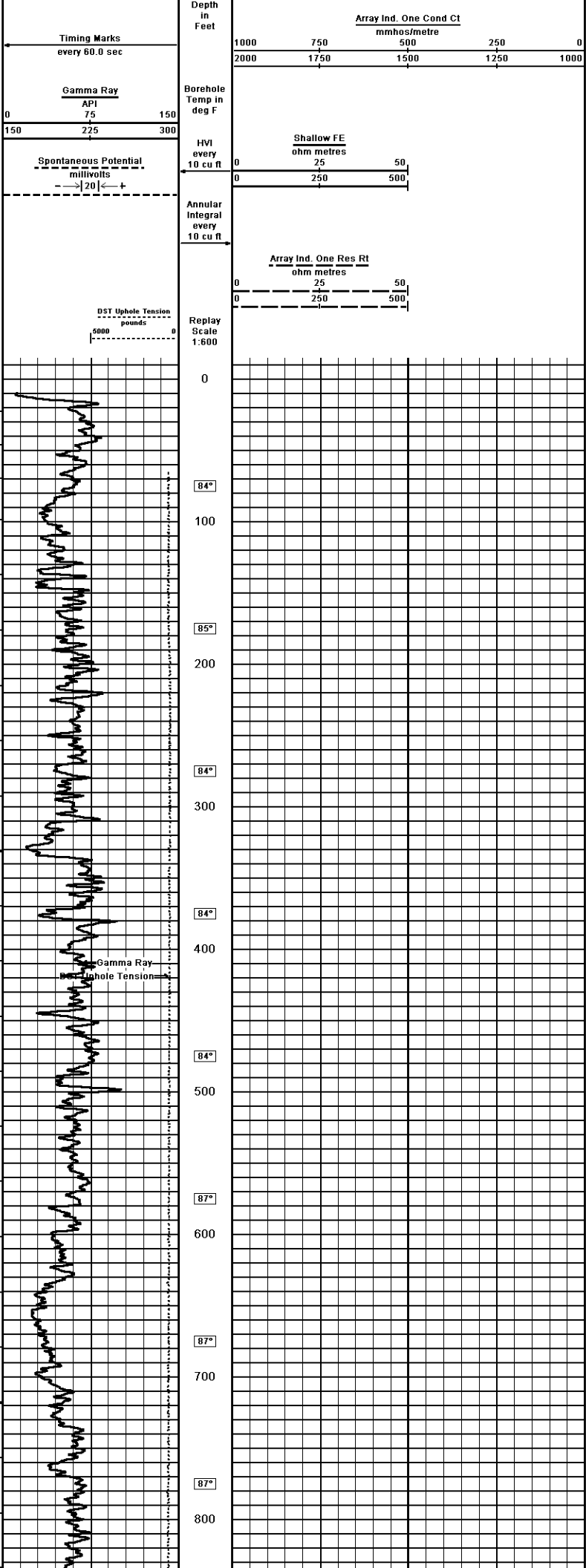


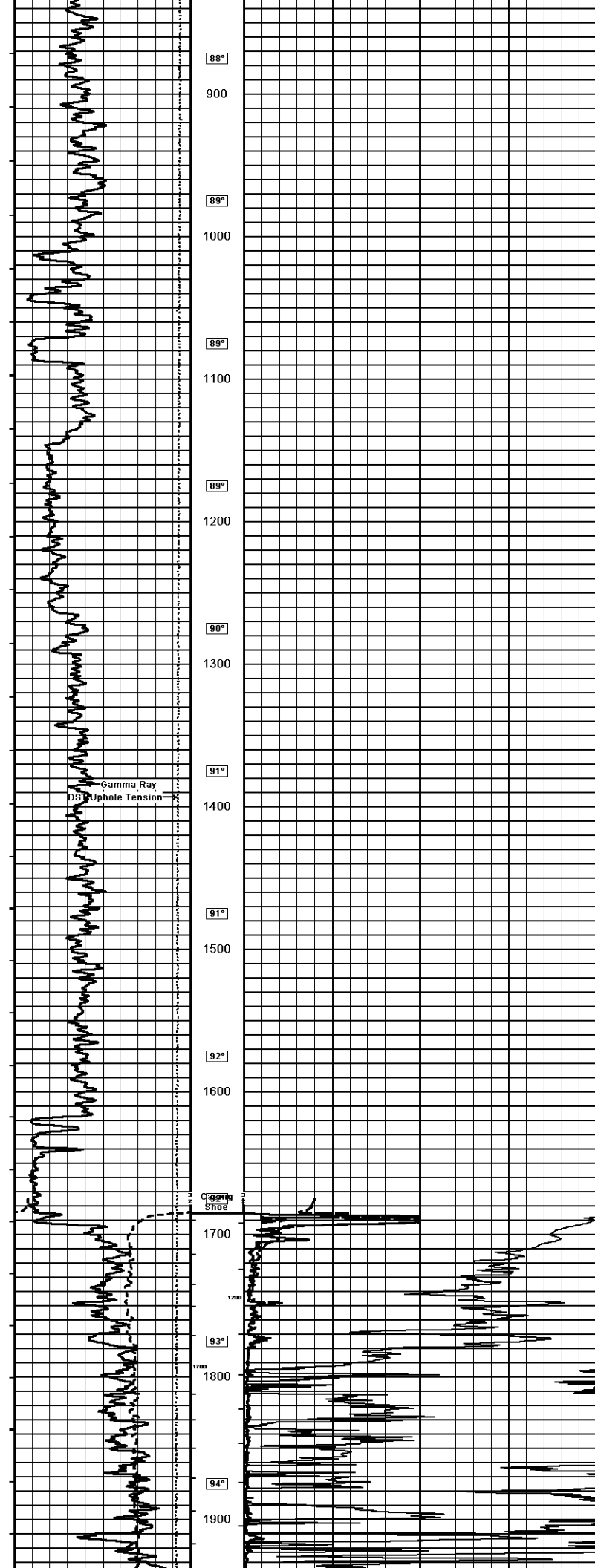
ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG

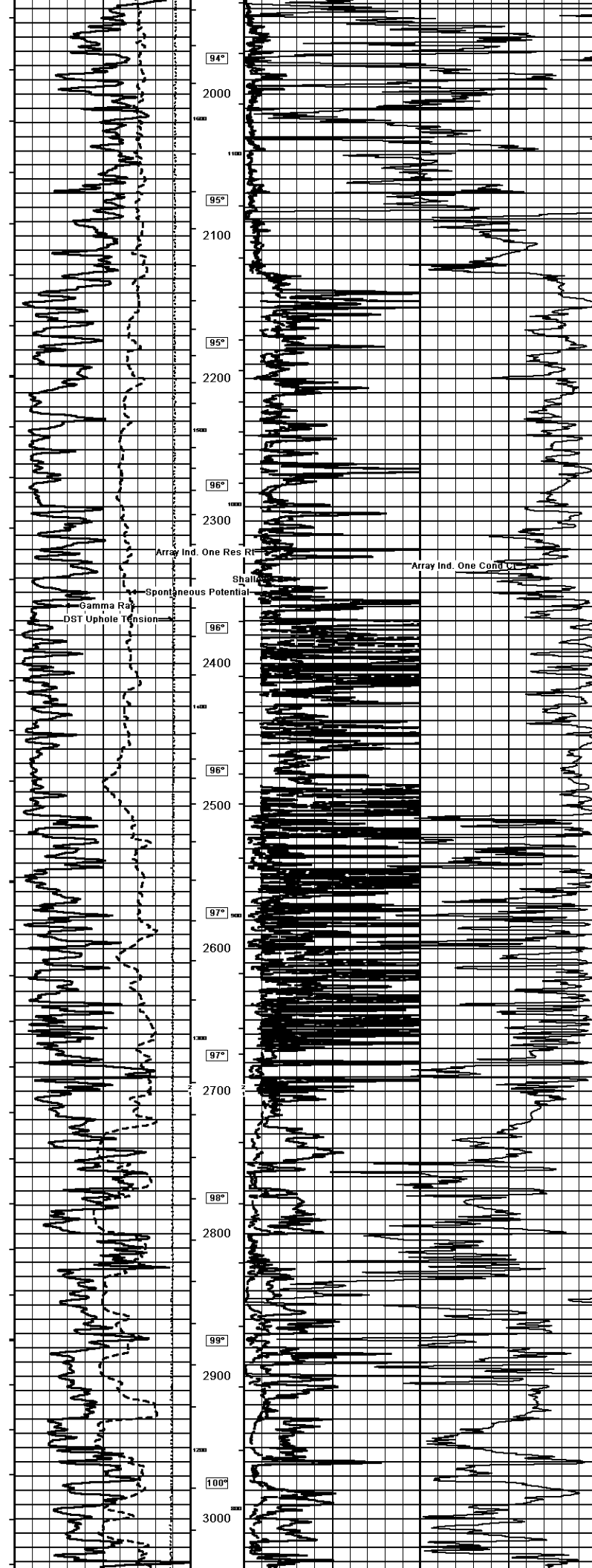
Weatherford®

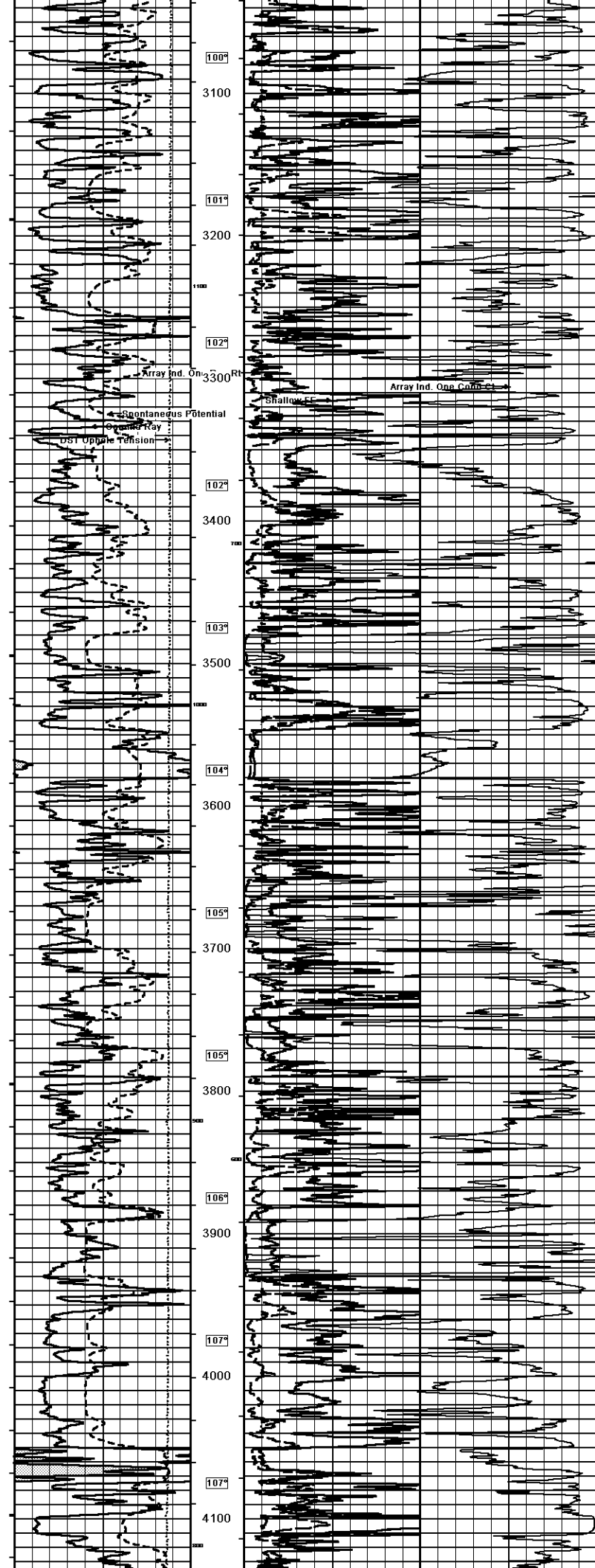
 Weatherford		ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG	
COMPANY		MCCOY PETROLEUM CORPORATION	
WELL		THOMAS & REED FARMS 'A' #1-21	
FIELD		WILDCAT	
PROVINCE/COUNTY		GRAY	
COUNTRY/STATE		U.S.A. / KANSAS	
SECTION		660' FNL & 1960' FWL	
SEC. 21	TWP. 29S	R.0E. 28W	
Latitude		Other Services	
Longitude		MPCOMDN	
API Number		MMS	
Elevation Datum (GL)		Elevations	
Permanent Datum (GL)		2739.00	
Log Measured From RB 11.10 feet above Permanent Datum		2737.00	
Casing Measured From HB		2726.00	
Date		GL	
18-MAR-2017			
Run Number	ONE		
Service Order	4558-177028132		
Depth Driller	6500.00	feet	
Depth Logger	6495.00	feet	
First Reading	6492.00	feet	
Last Reading	1685.00	feet	
Casing Driller	1690.00	feet	
Casing Logger	1685.00	feet	
Bit Size	7.875	inches	
Flow Fluid Type	CHEMICAL		
Density/Viscosity	9.00	lb/lb/g	
PH/Fluid Loss	9.50	65.00	CP
		6.00	mil/30min
Sample Source	FLOWLINE		
Rm @ Measured Temp	1.03 @ 75.0	ohm-in	
Rm @ Measured Temp	0.82 @ 75.0	ohm-in	
Rm @ Measured Temp	1.24 @ 75.0	ohm-in	
Source Rmt/Rmc	CALC	CALC	
Rm @ BHT	0.63 @ 73.0	ohm-in	
Run Time Circulation	5 HOURS	deg F	
Max Recorded Temp	123.00	deg F	
Equipment/Base	13096	IOC	
Recorded By	ADAM BULL		
Witnessed By	ZACH WIELE		

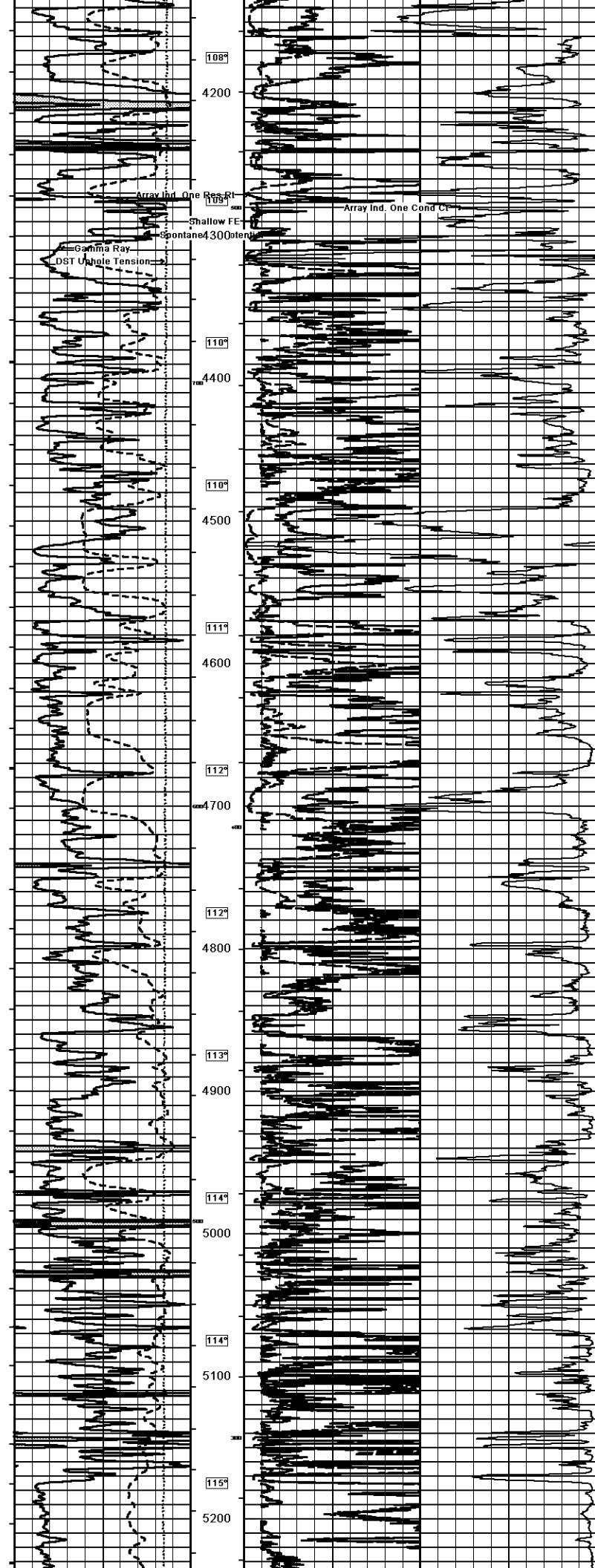
1 INCH MAIN

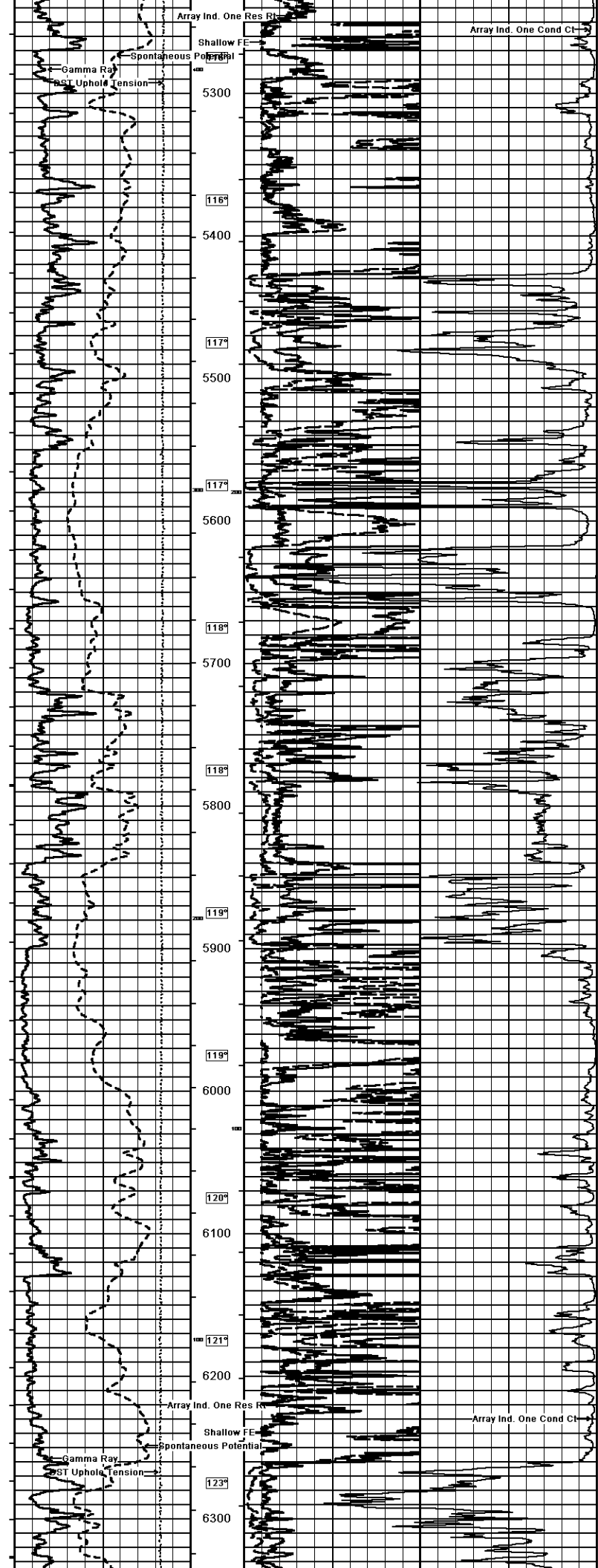


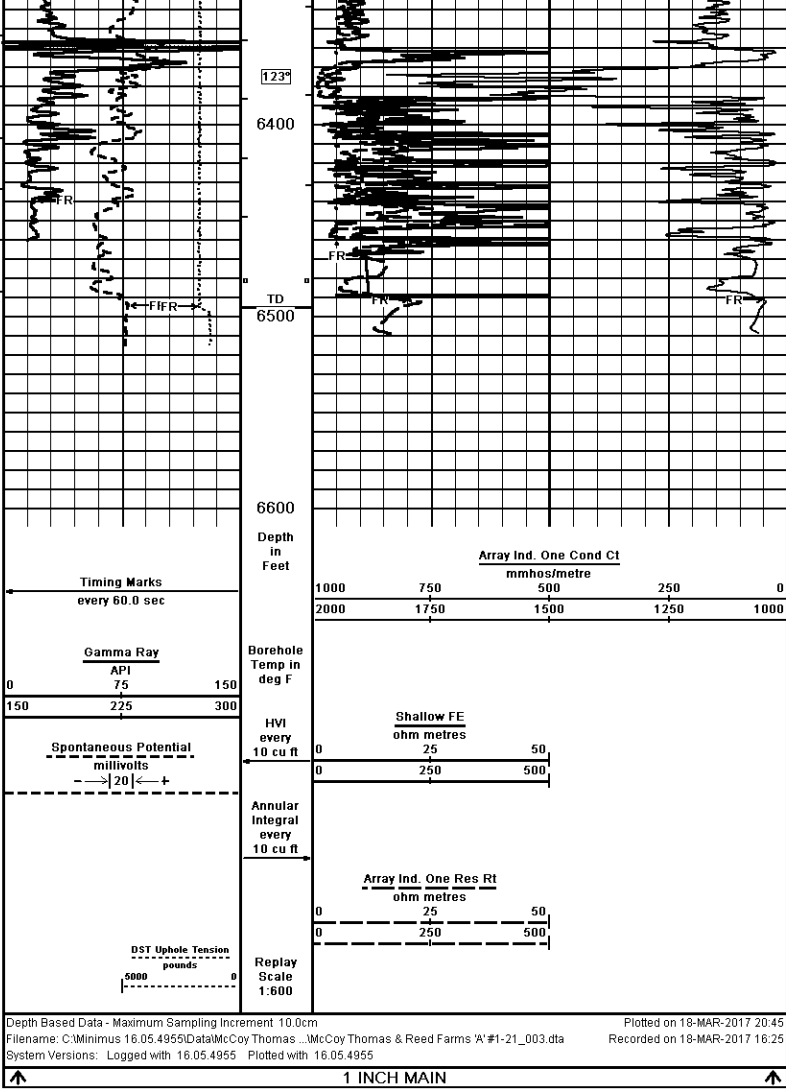












COMPANY		McCOY PETROLEUM CORPORATION	
WELL		THOMAS & REED FARMS 'A' #1-21	
FIELD		WILDCAT	
PROVINCE/COUNTY		GRAY	
COUNTRY/STATE		U.S.A. / KANSAS	
Elevation Kelly Bushing	2739 feet	First Reading	6492.00 feet
Elevation Drill Floor	2737 feet	Depth Driller	6500.00 feet
Elevation Ground Level	2728 feet	Depth Logger	6495.00 feet
		ARRAY INDUCTION	
		SHALLOW FOCUSED	
		ELECTRIC LOG	