



Weatherford

ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG

COMPANY	MCCOY PETROLEUM CORP.		
WELL	YOST 'G' #1-18		
FIELD	WILDCAT		
PROVINCE/COUNTY	GRAY		
COUNTRY/STATE	U.S.A. / KANSAS		
LOCATION	660' FNL & 2280' FEL		
SEC	TWP	RGE	Other Services
18	27S	29W	MPD/MDN
API Number	15-069-20419		MML
Permit Number			
Permanent Datum G.L., Elevation 2750 feet			Elevations:
Log Measured From KB			KB
Drilling Measured From K.B.			DF
			GL
Date	29-DEC-2012		feet
Run Number	ONE		
Service Order	3538965		
Depth Driller	5250.00		feet
Depth Logger	5249.00		feet
First Reading	5246.00		feet
Last Reading	1829.00		feet
Casing Driller	1827.00		feet
Casing Logger	1829.00		inches
Bit Size	7.875		
Hole Fluid Type	CHEMICAL		lb/USg
Density / Viscosity	9.25 lb/USg		53.00 CP
PH / Fluid Loss	10.50		10.50
Sample Source	FLOWLINE		
Rm @ Measured Temp	0.54 @ 90.0		ohm-m
Rmf @ Measured Temp	0.43 @ 90.0		ohm-m
Rmc @ Measured Temp	0.65 @ 90.0		ohm-m
Source Rmf / Rmc	CALC	CALC	
Rm @ BHT	0.43 @114.0		ohm-m
Time Since Circulation	5 HOURS		
Max Recorded Temp	114.00		deg F
Equipment / Base	13057	LIB	
Recorded By	ADAM SILL		
Witnessed By	EVAN STONE		J. LAPOINT
JOBS#	LB12-338		

BOREHOLE RECORD				Last Edited: 29-DEC-2012 23:18
Bit Size inches		Depth From feet		Depth To feet
7.875		1829.00		5250.00
CASING RECORD				
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	8.625	0.00	1829.00	24.00

REMARKS
- SOFTWARE ISSUE: WLS 13.04.8492.
- MCG, MML, MDN, MPD, MFE, MAI RAN 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: 1395 CU. FT.
- ANNULAR HOLE VOLUME WITH 4.5 INCH PRODUCTION CASING FROM TD TO 3900: 308 CU. FT.
- RIG: STERLING #5

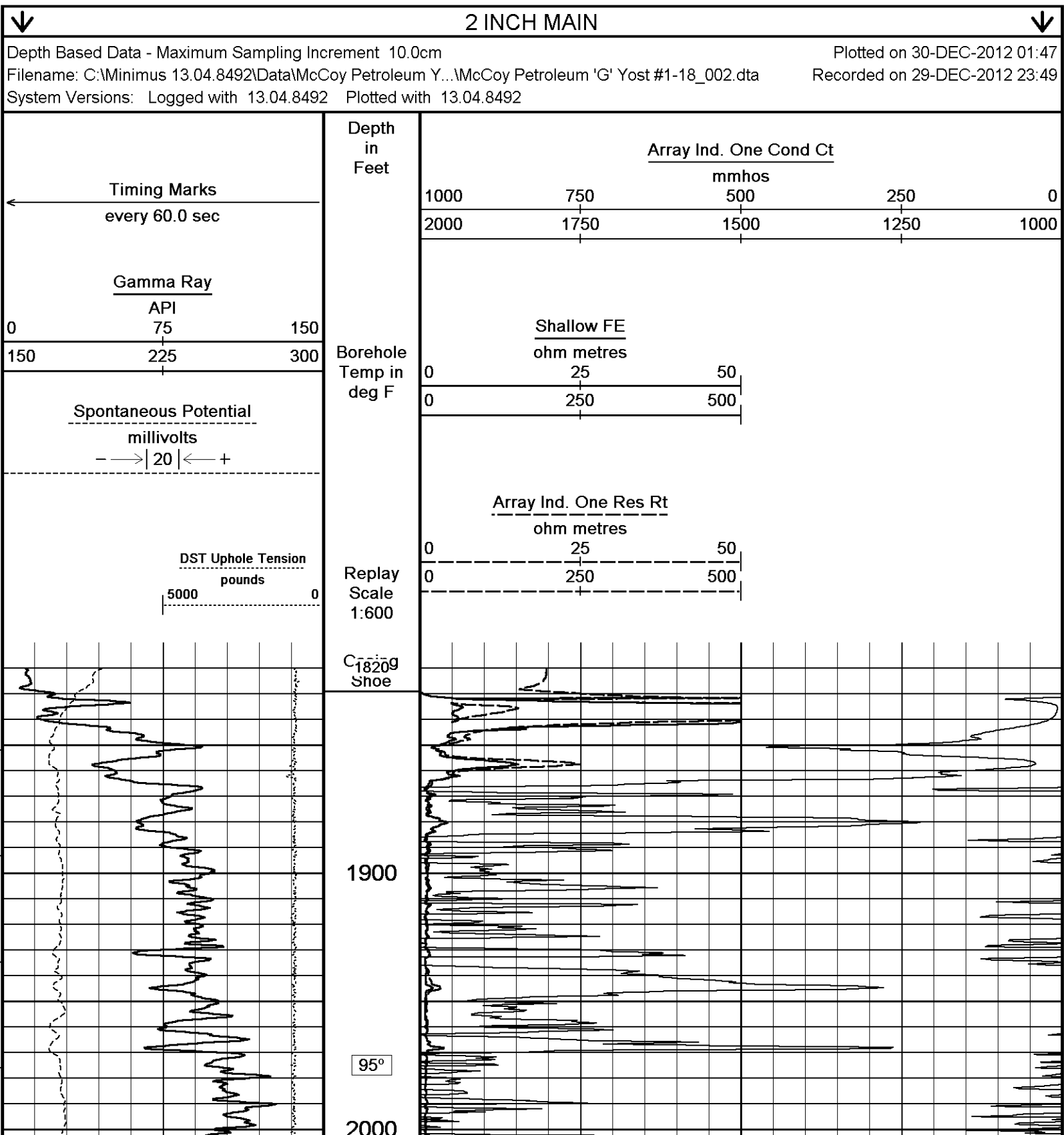
RIC: OPERING #3.

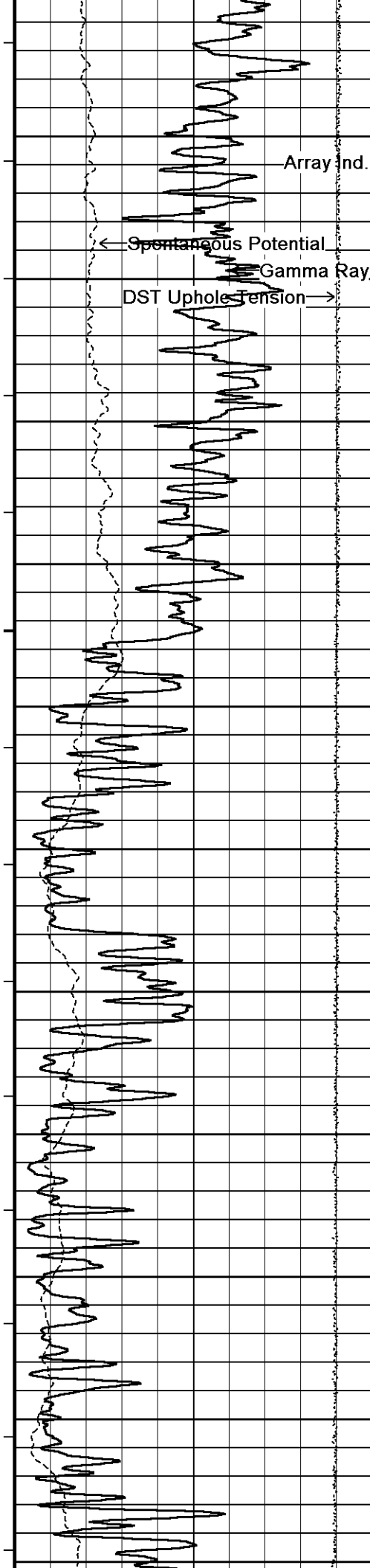
- ENGINEER: A. SILL, J. LAPOINT.

- OPERATOR(S): R. VENEGAS.

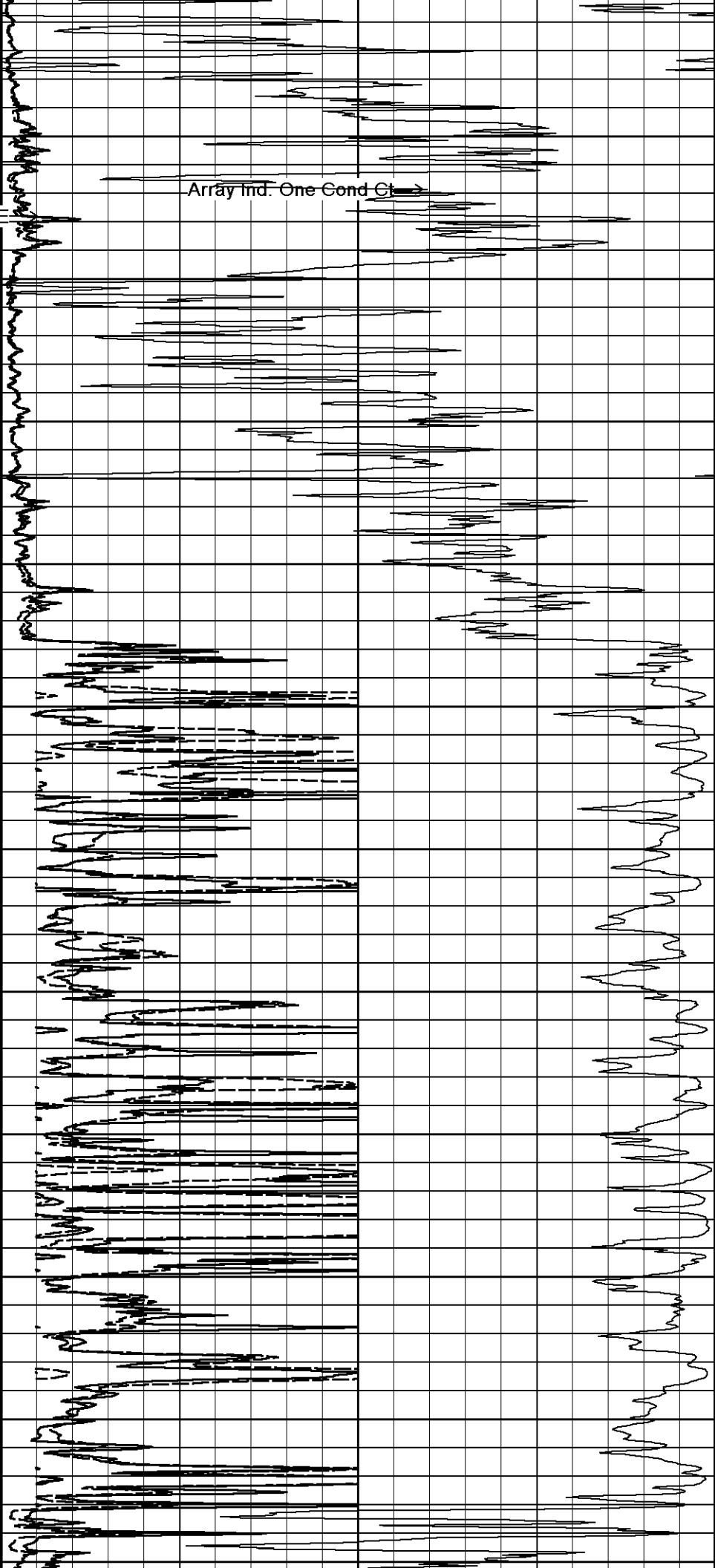
**** SOFTWARE ISSUE CHANGED FLUID LOSS TO MATCH PH. FLUID LOSS SHOULD BE 14.4 ML/30MIN. ****

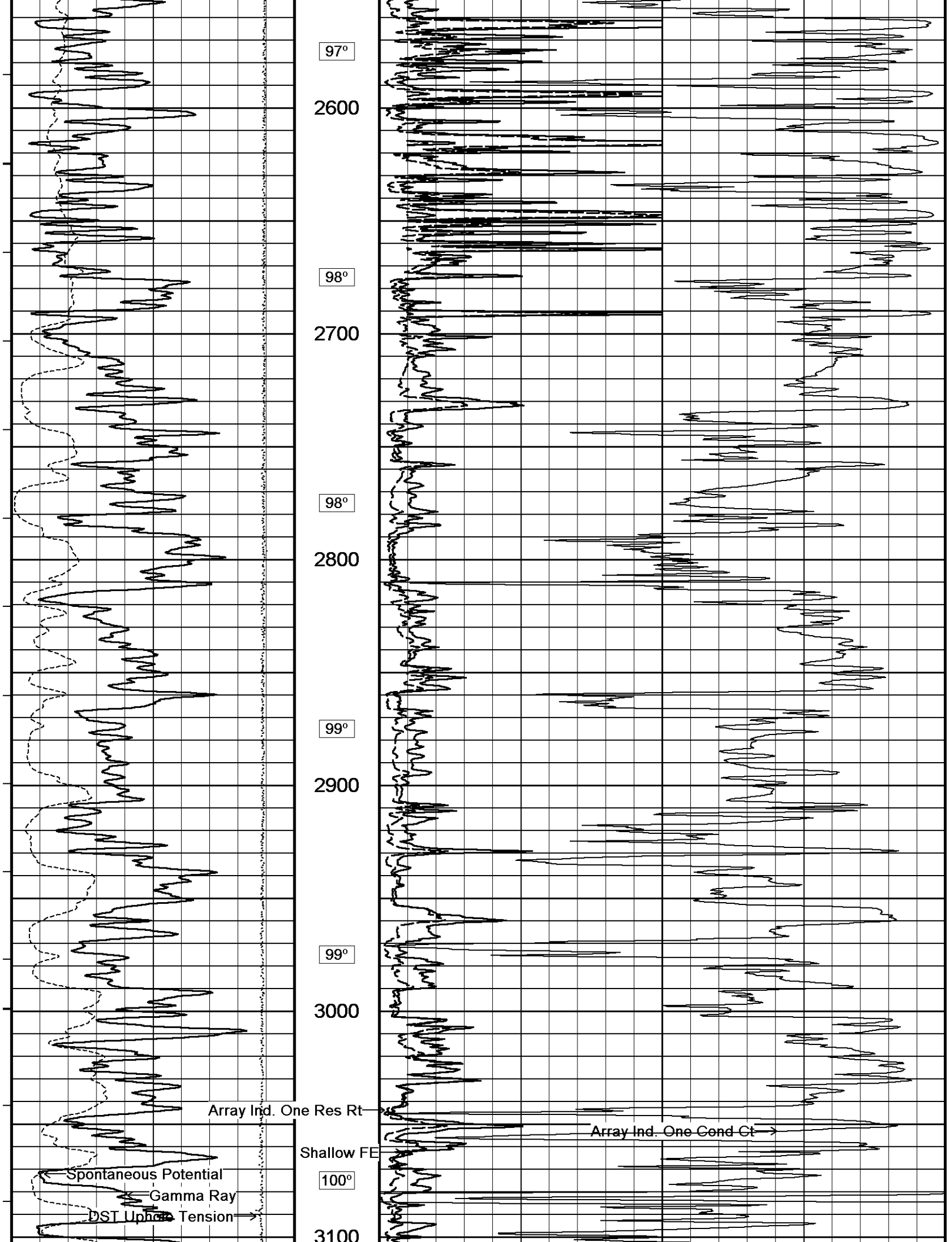
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

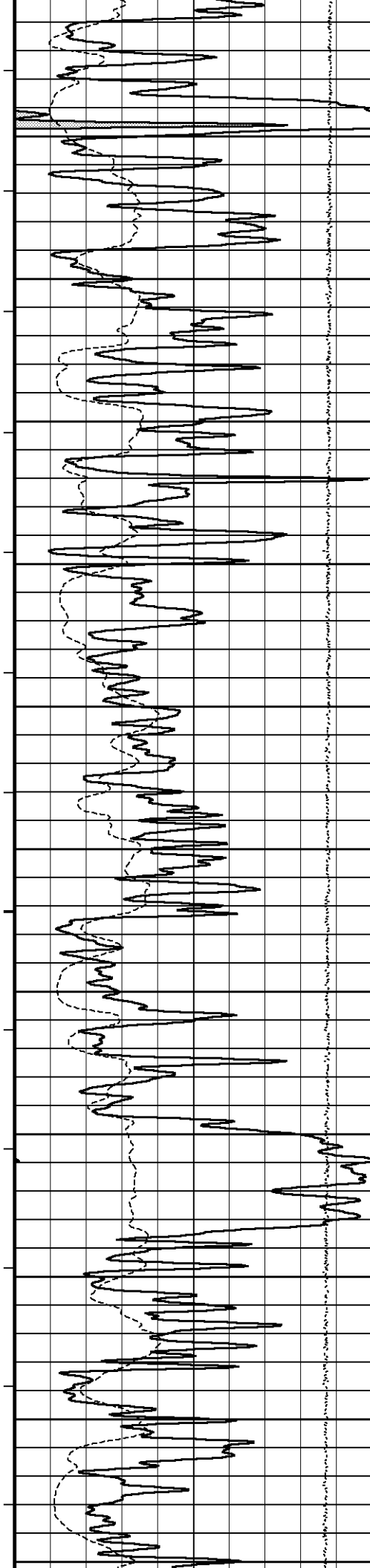




Array Ind. One Res Rt
96° Shallow F
2100
96°
2200
96°
2300
97°
2400
97°
2500







3100

100°

3200

101°

3300

102°

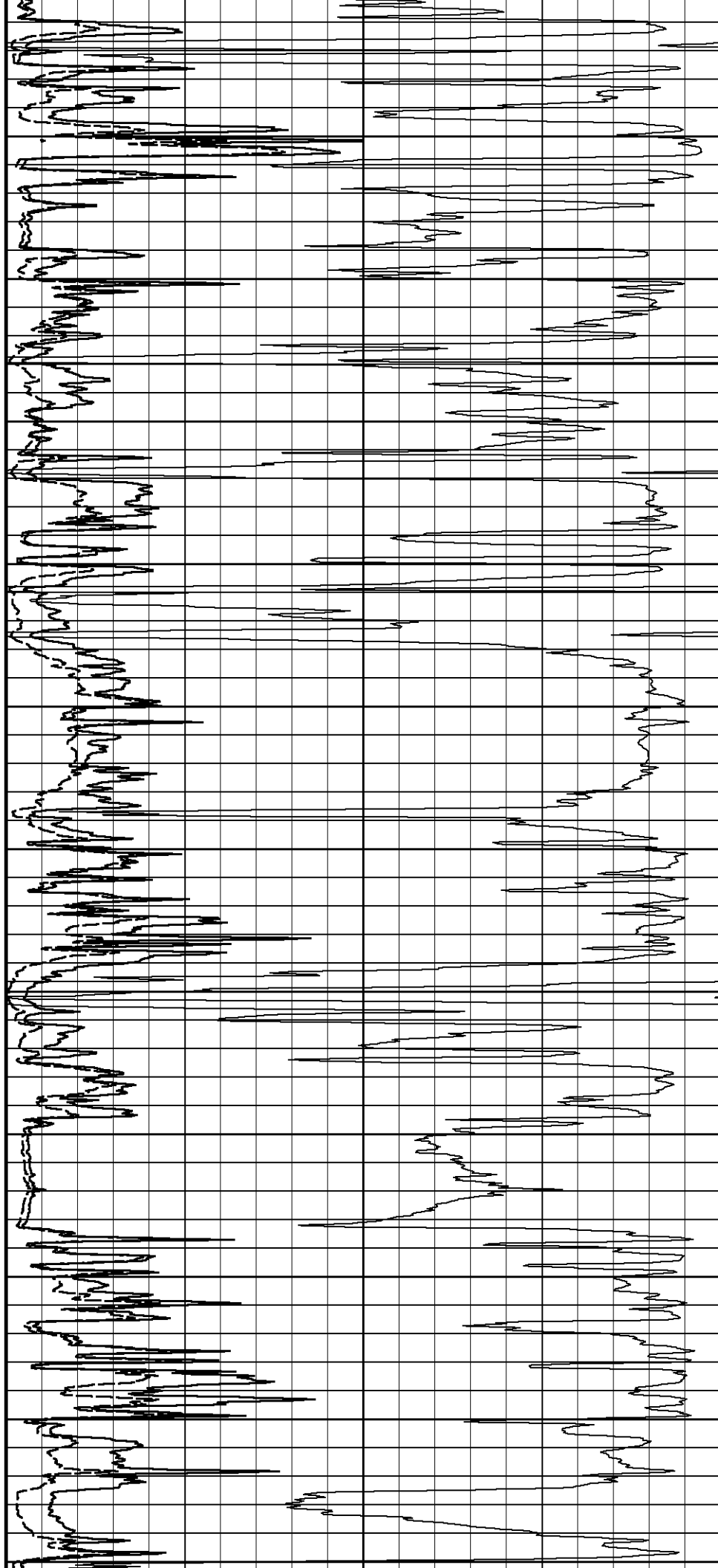
3400

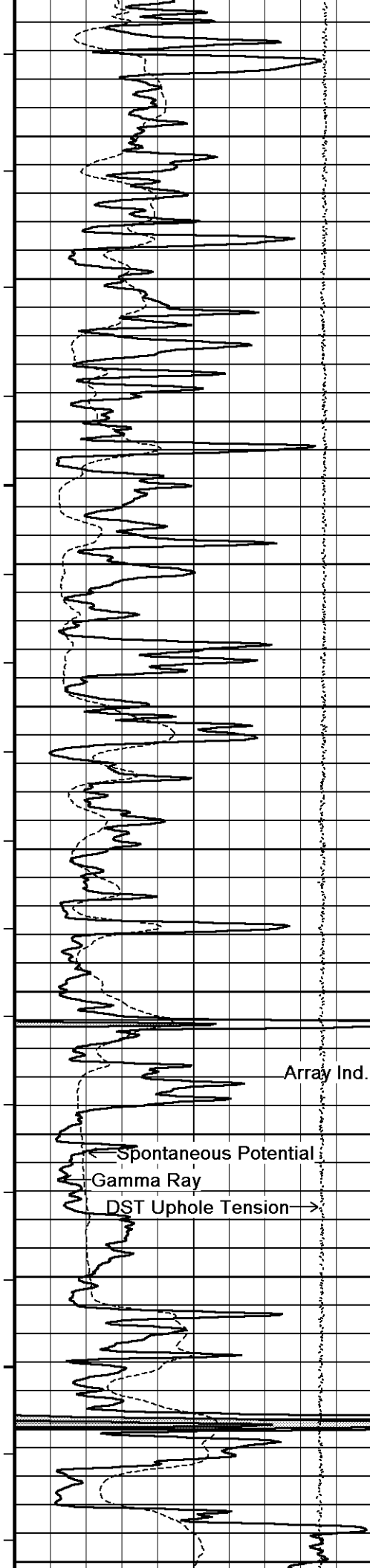
102°

3500

103°

3600





104°

3700

104°

3800

105°

3900

106°

4000

Array Ind. One Res Rt

Array Ind. One Cond Ct

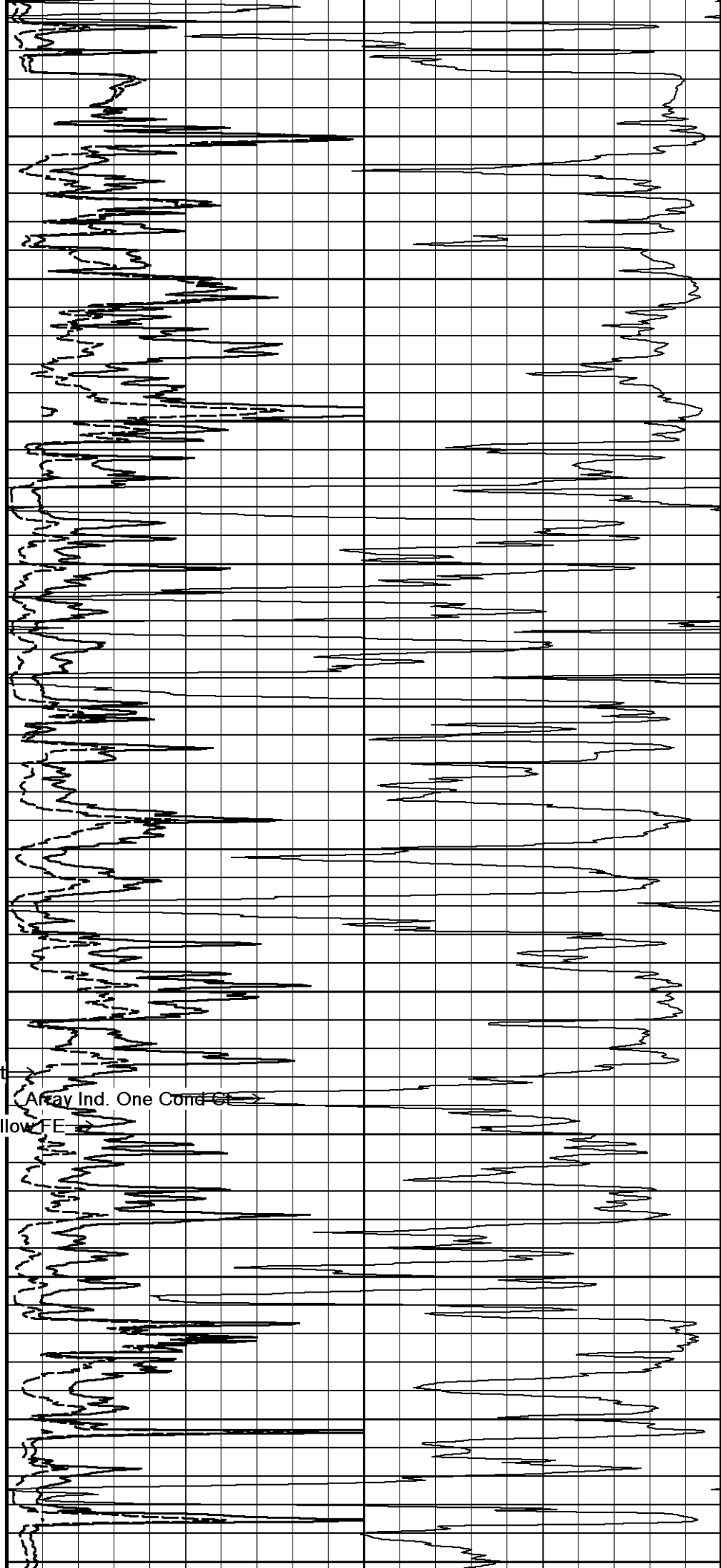
Shallow FE

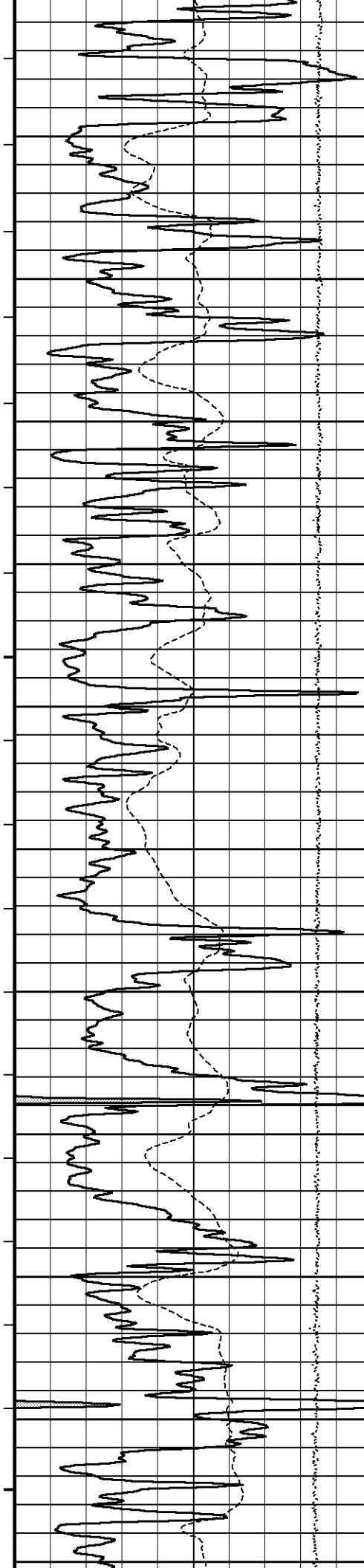
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4100

107°

4200





108°

4300

109°

4400

109°

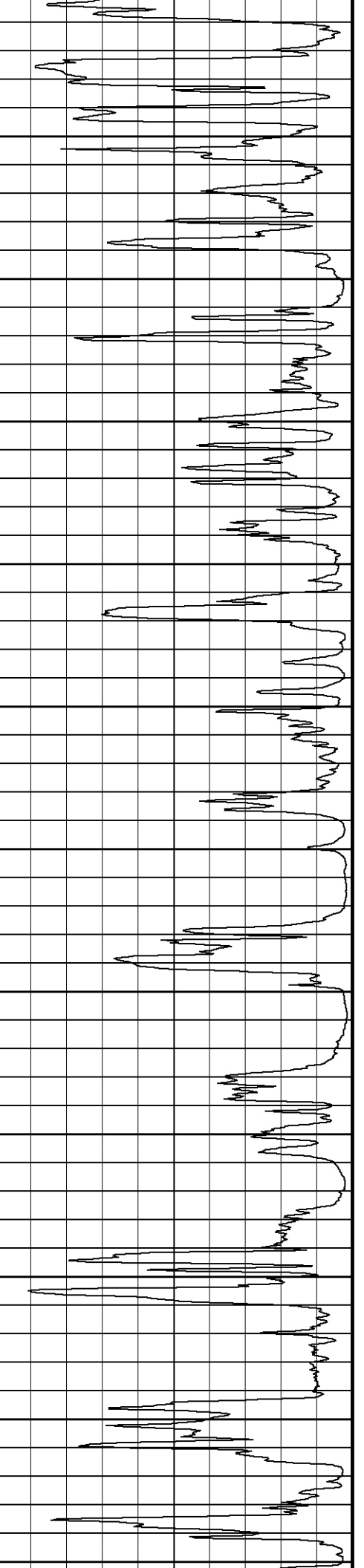
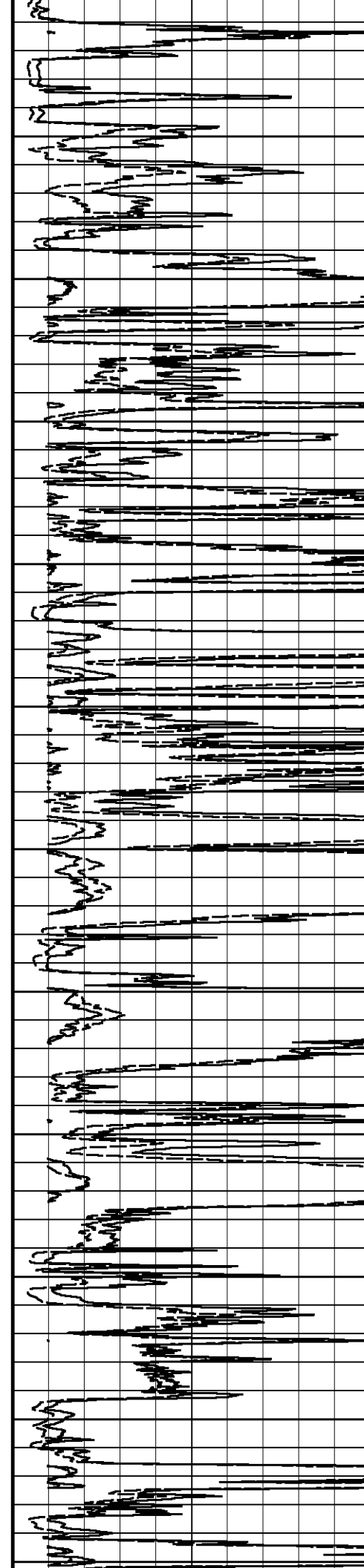
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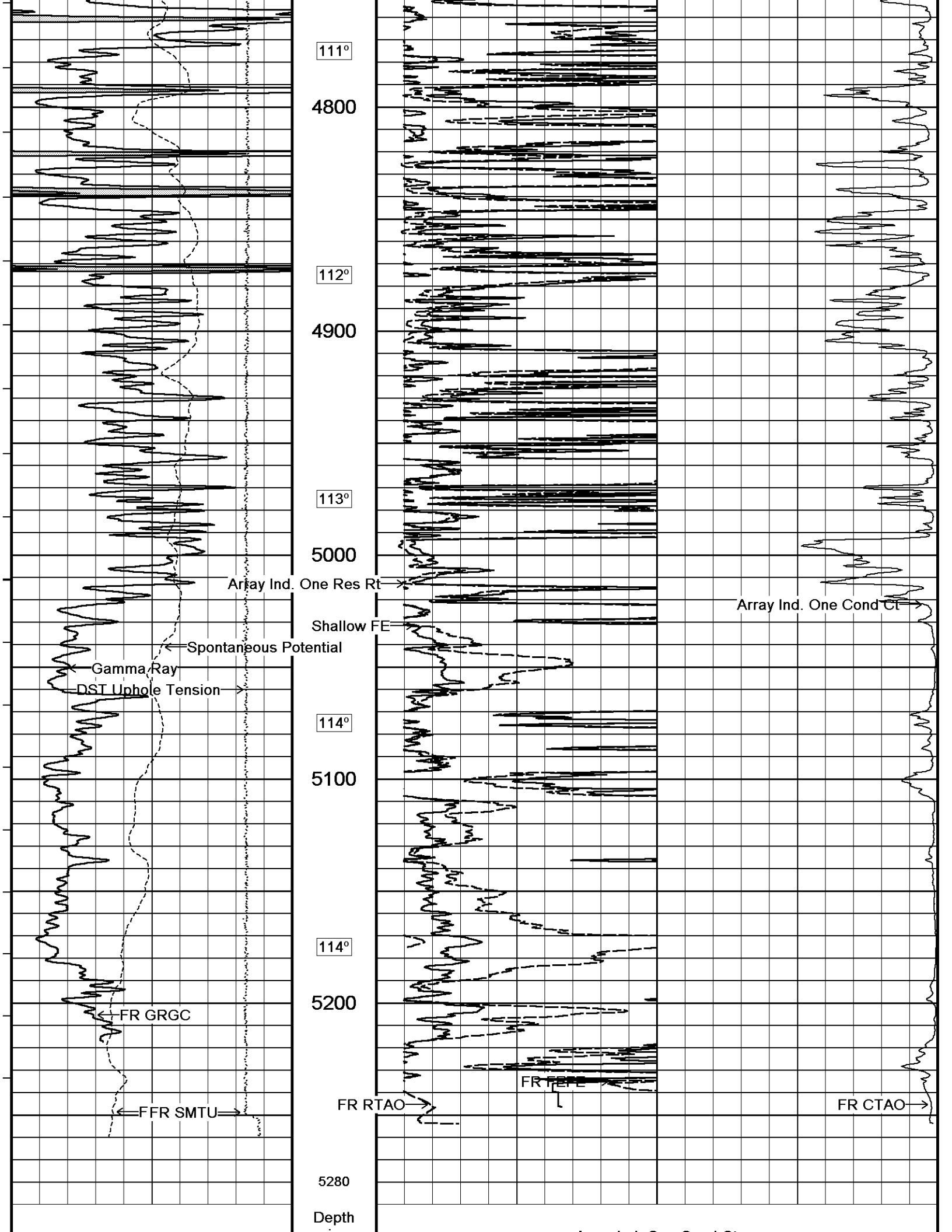
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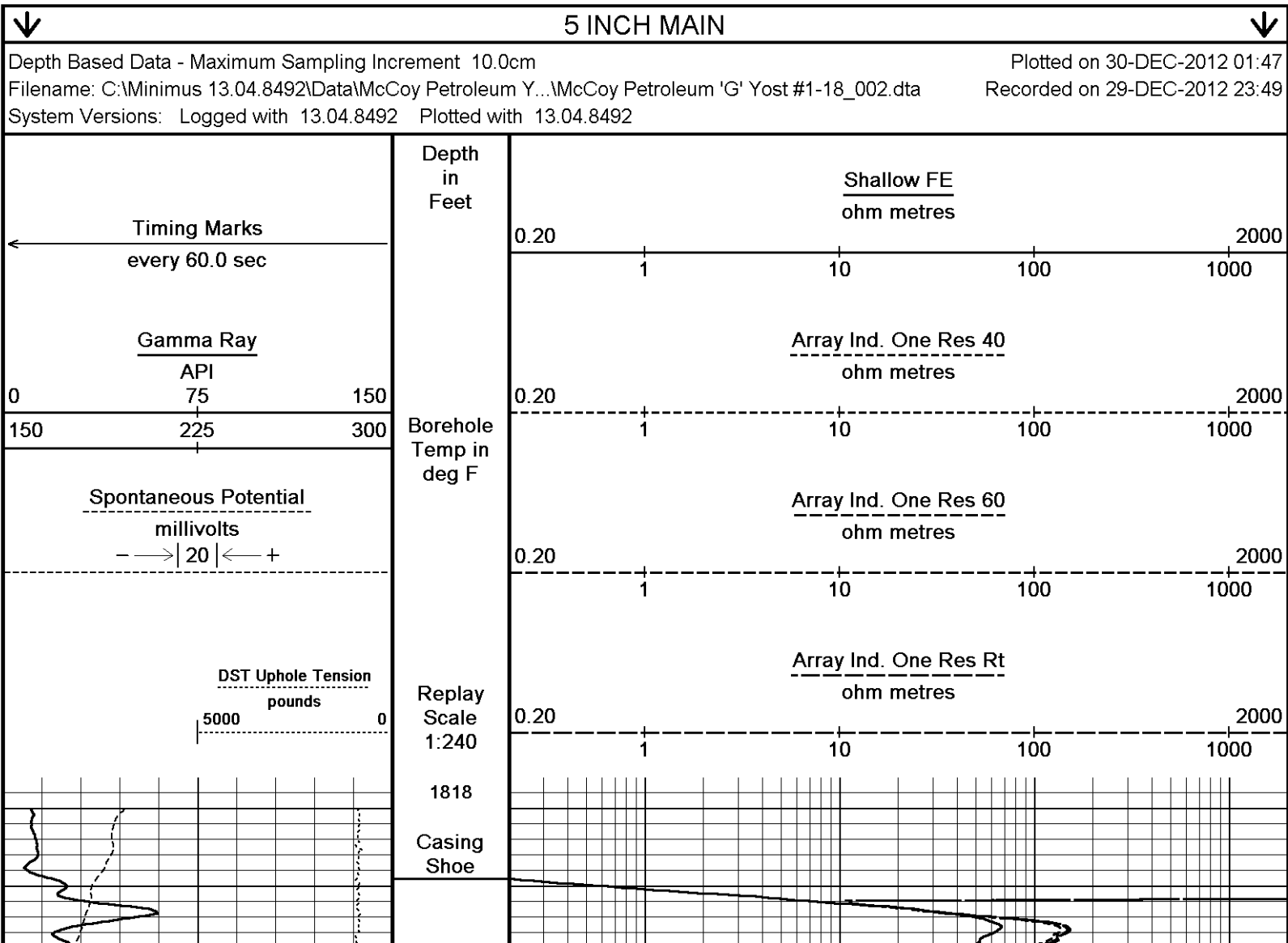
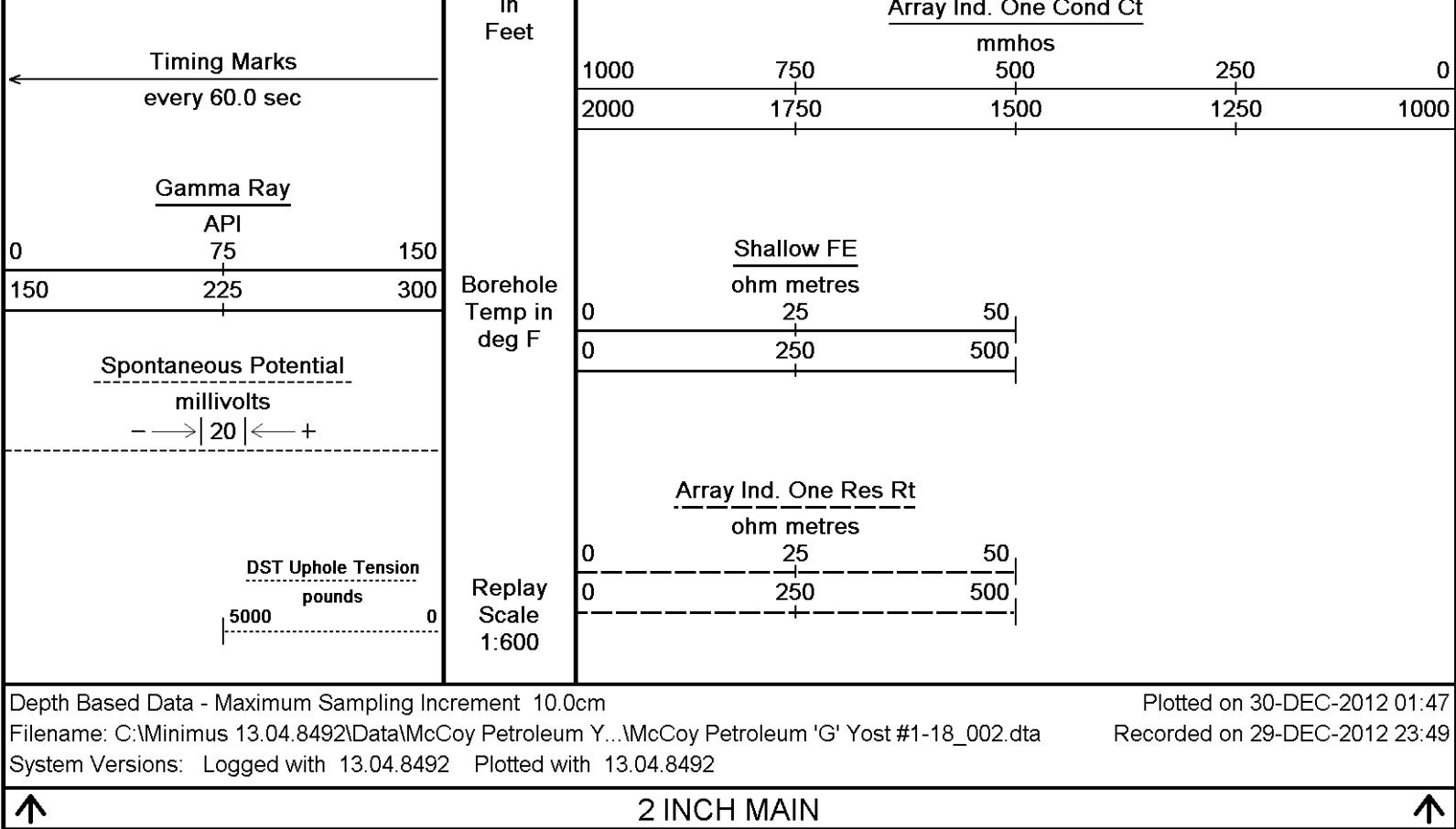
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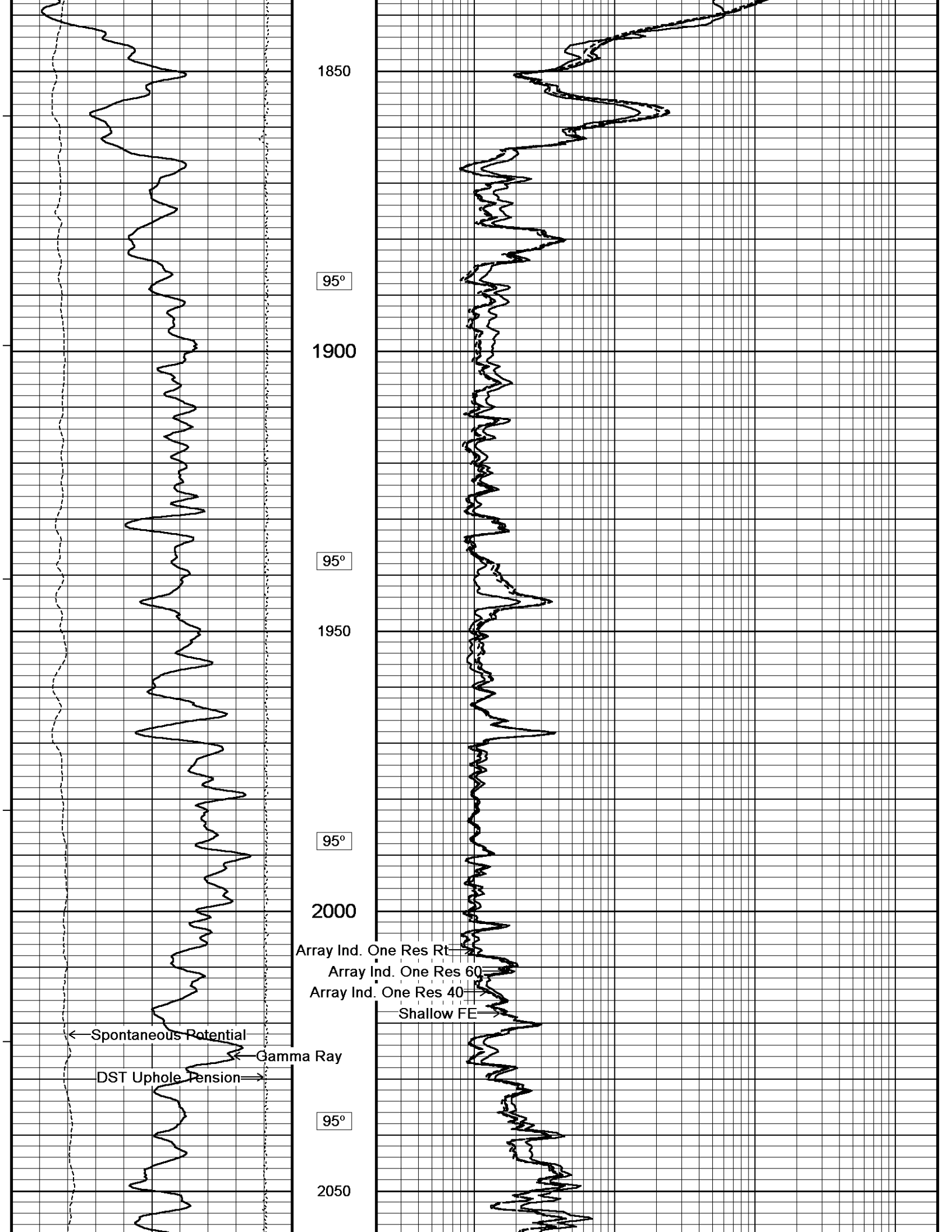
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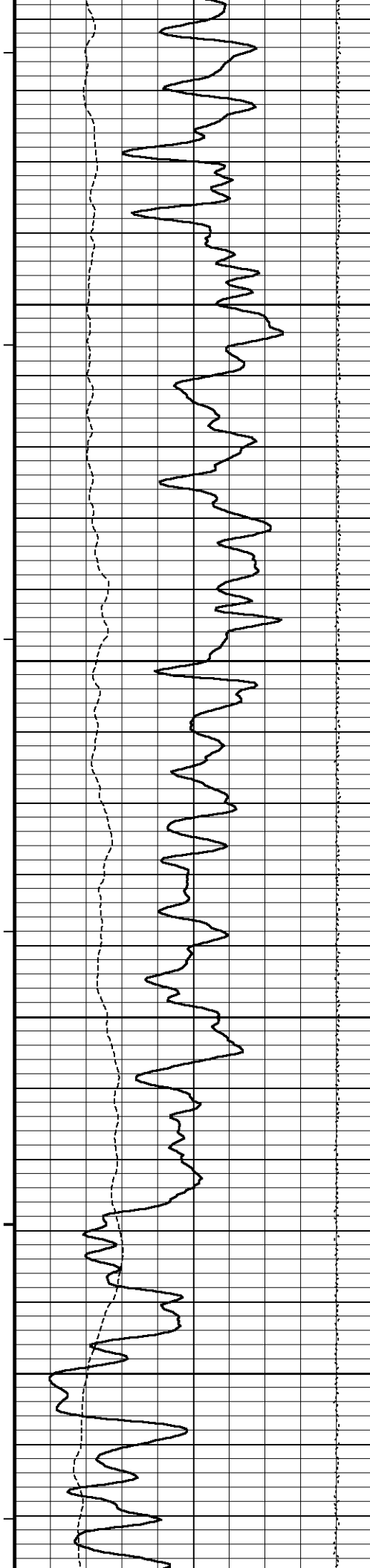
4700











96°

2100

96°

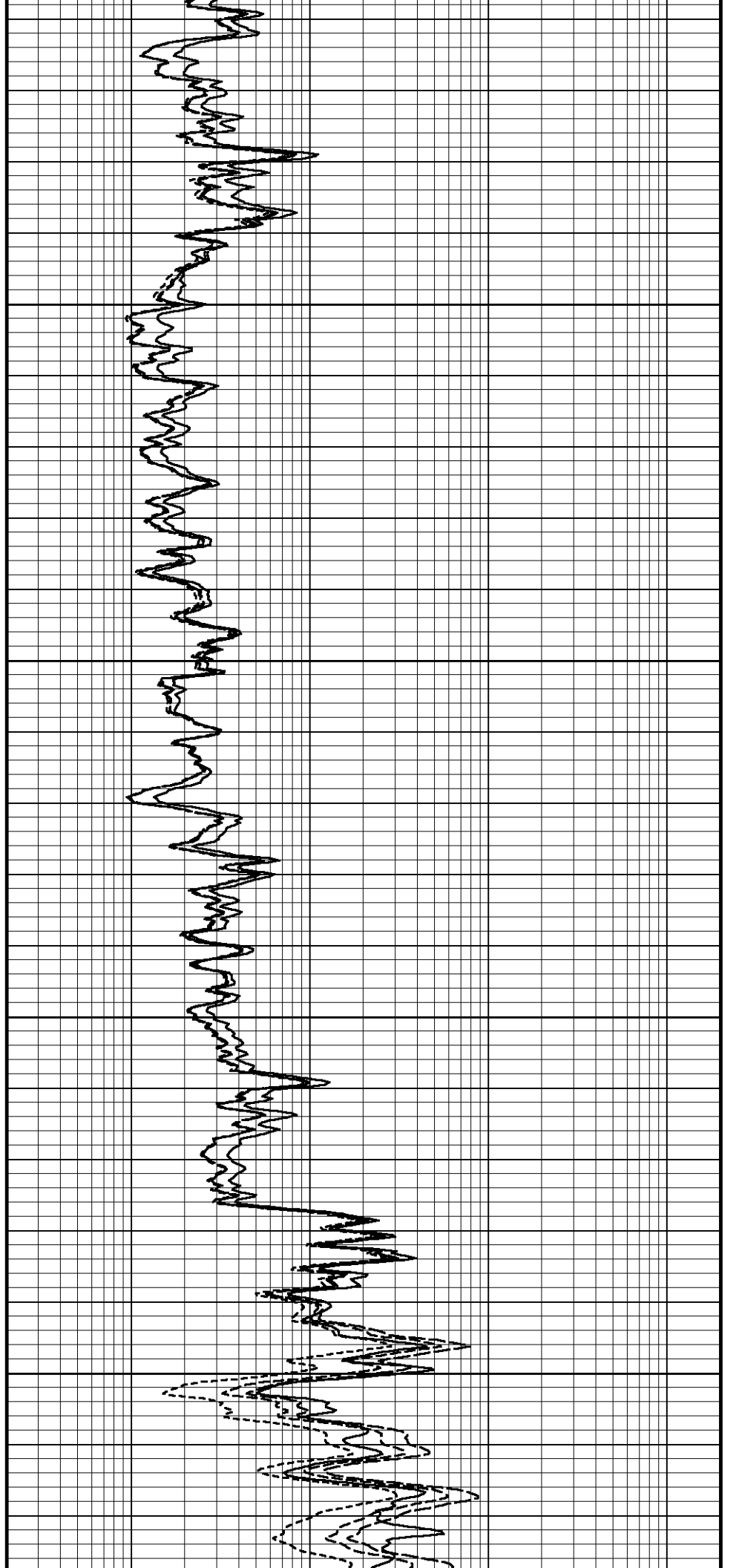
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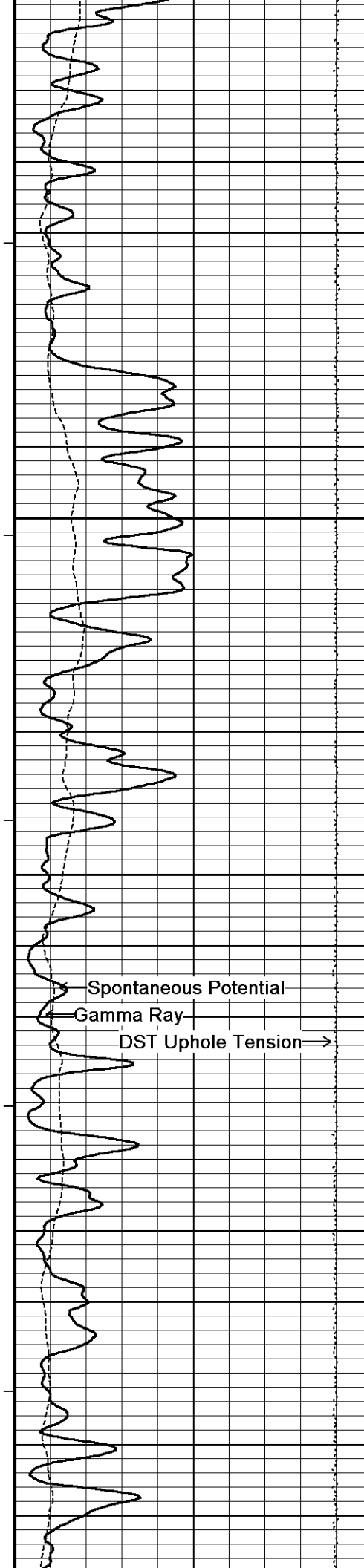
96°

2200

96°

2250





96°

2300

97°

2350

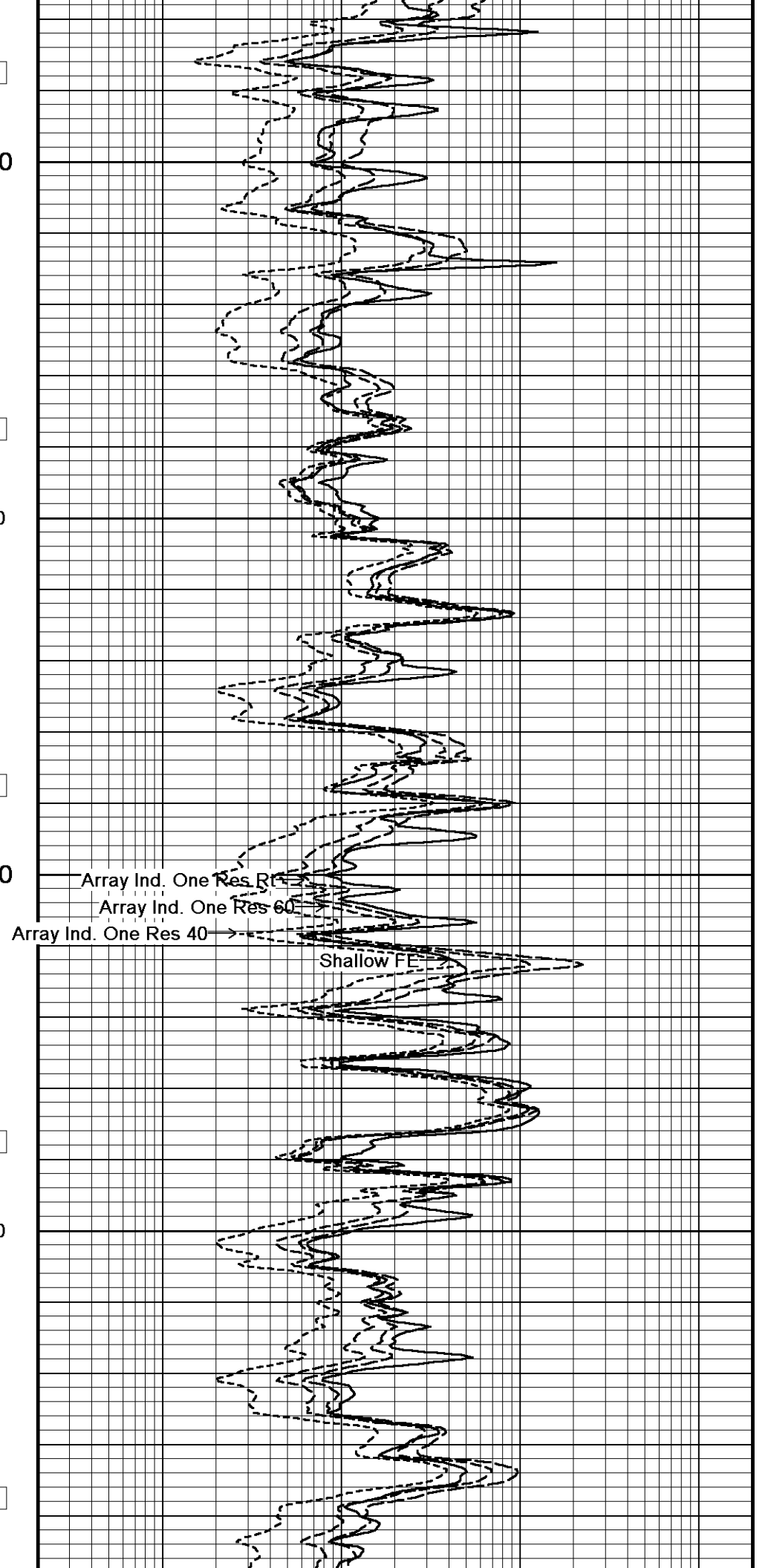
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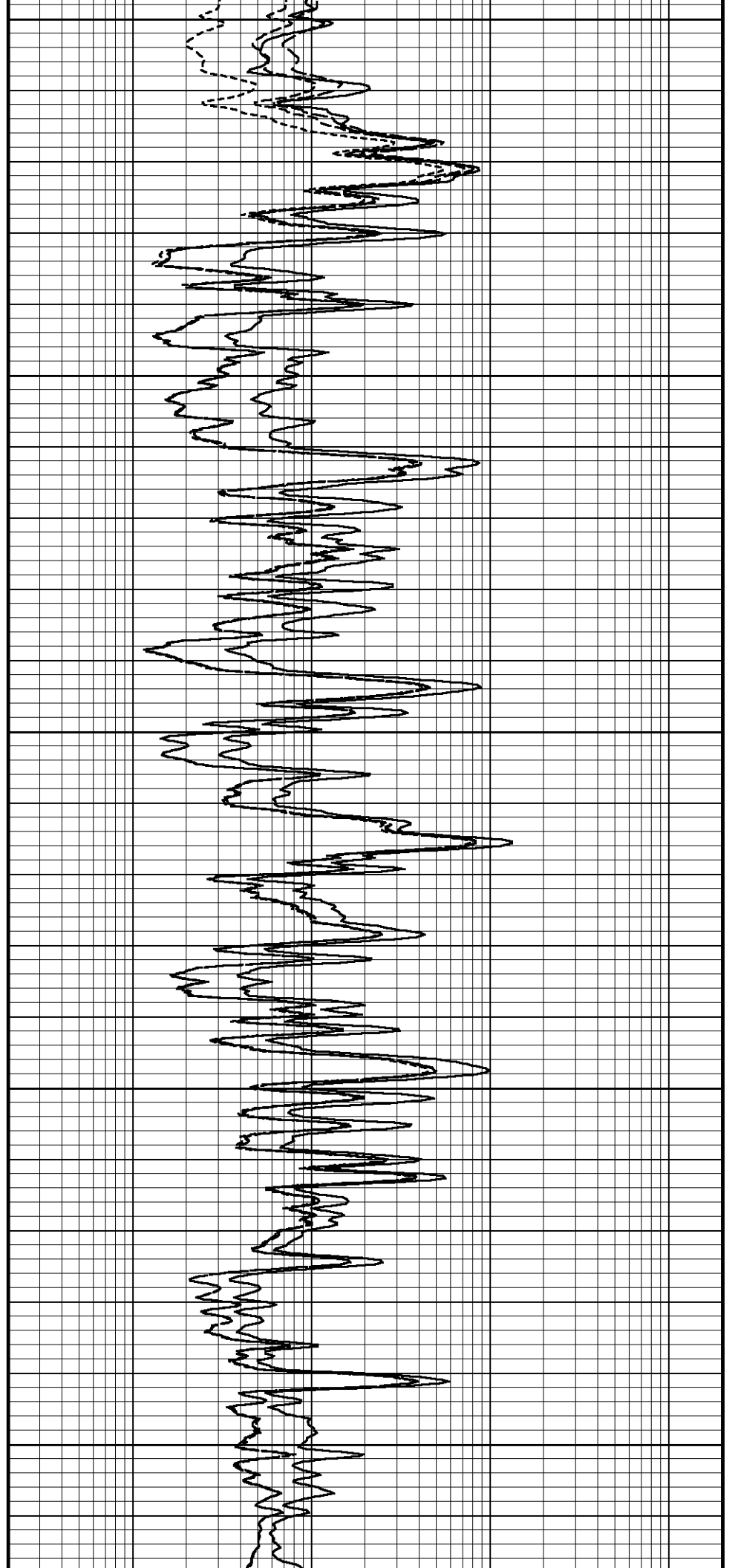
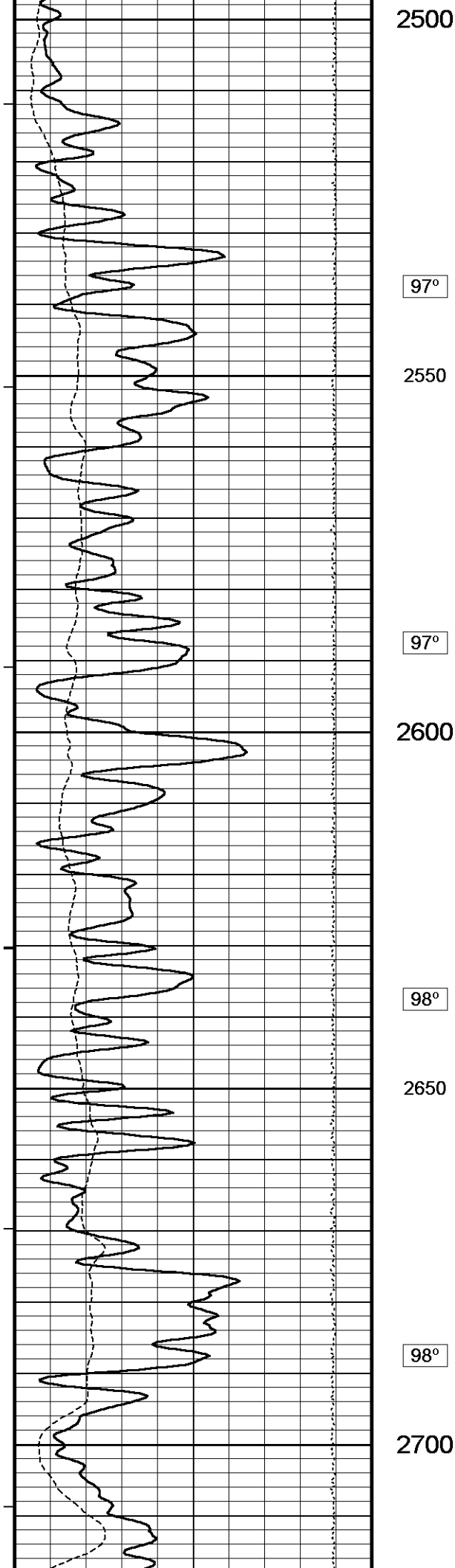
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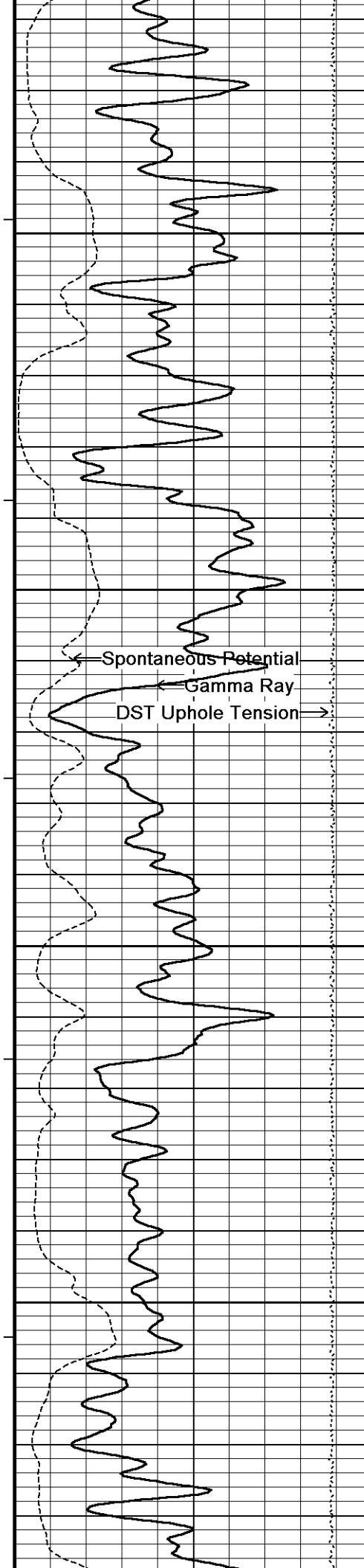
97°

2450

97°







98°

2750

98°

2800

98°

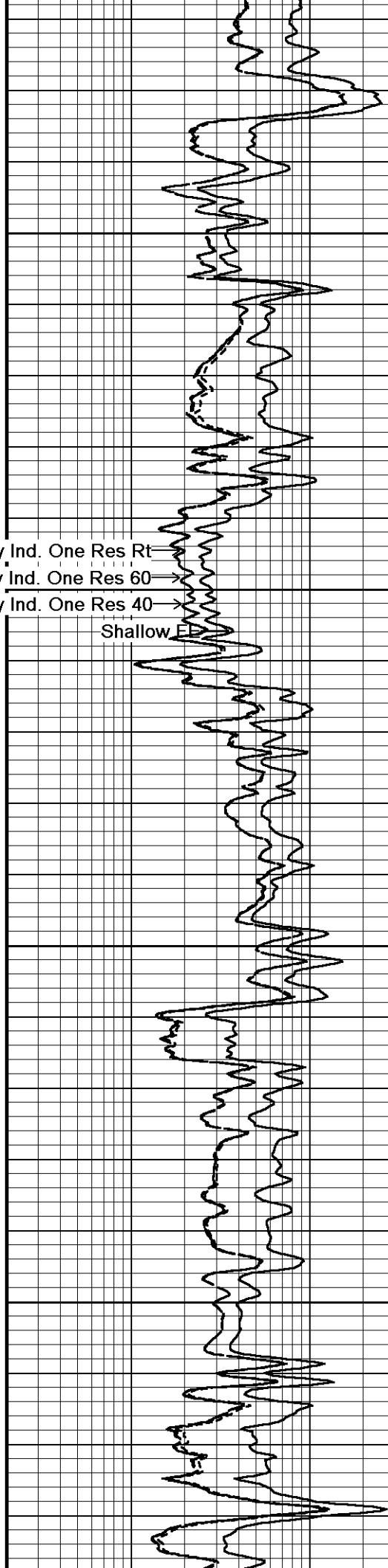
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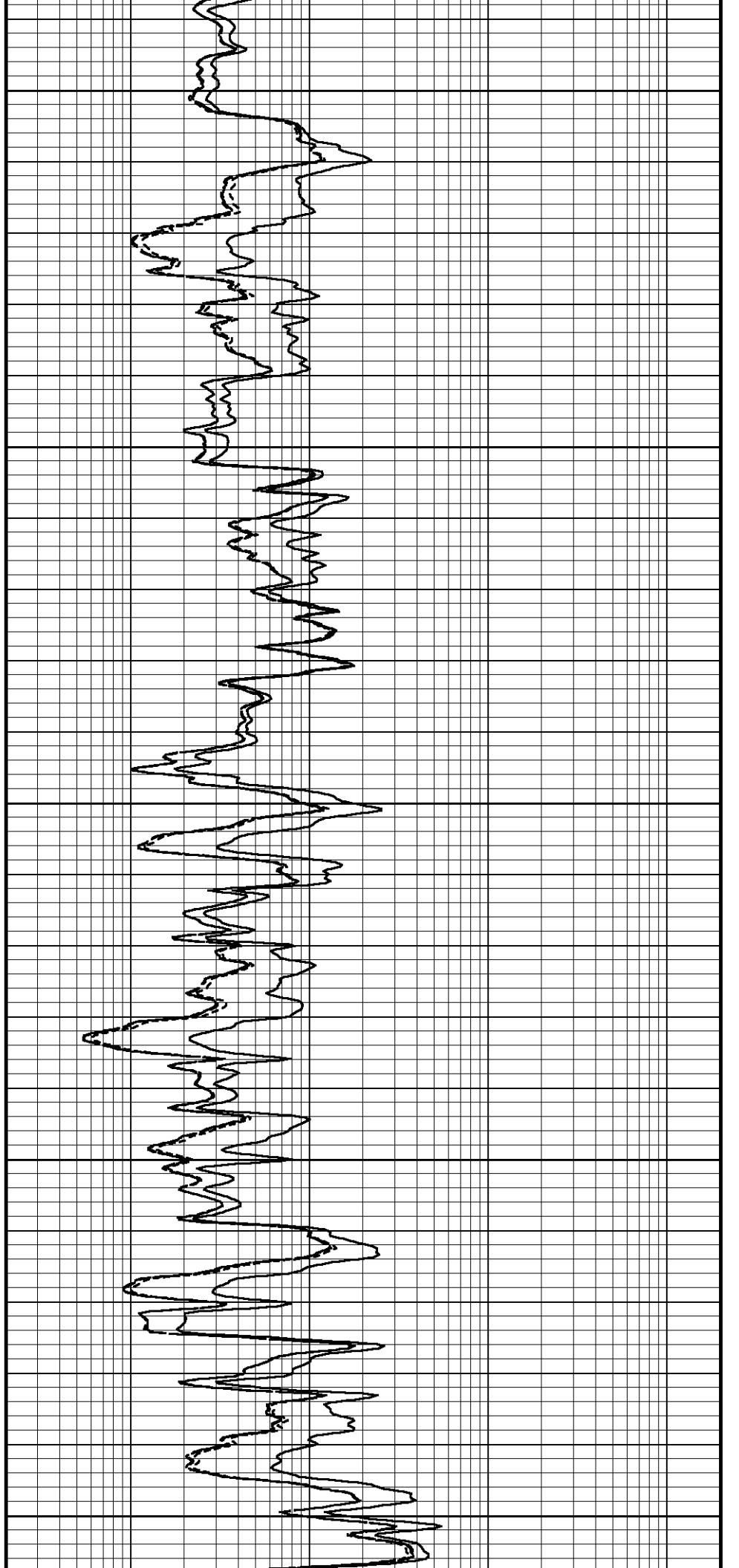
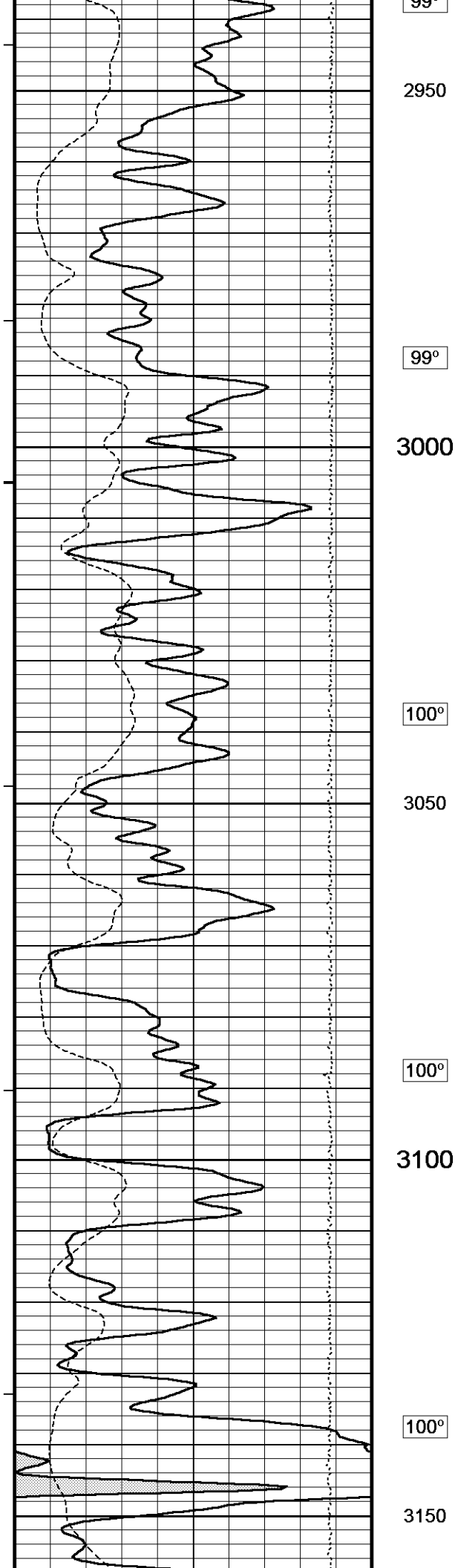
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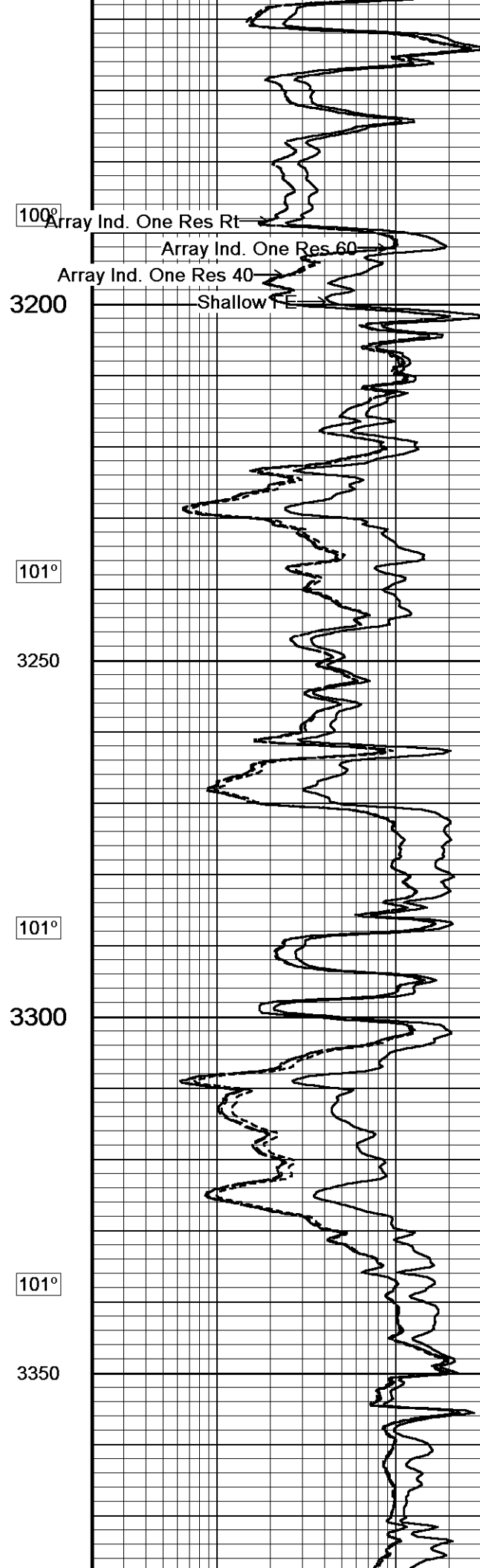
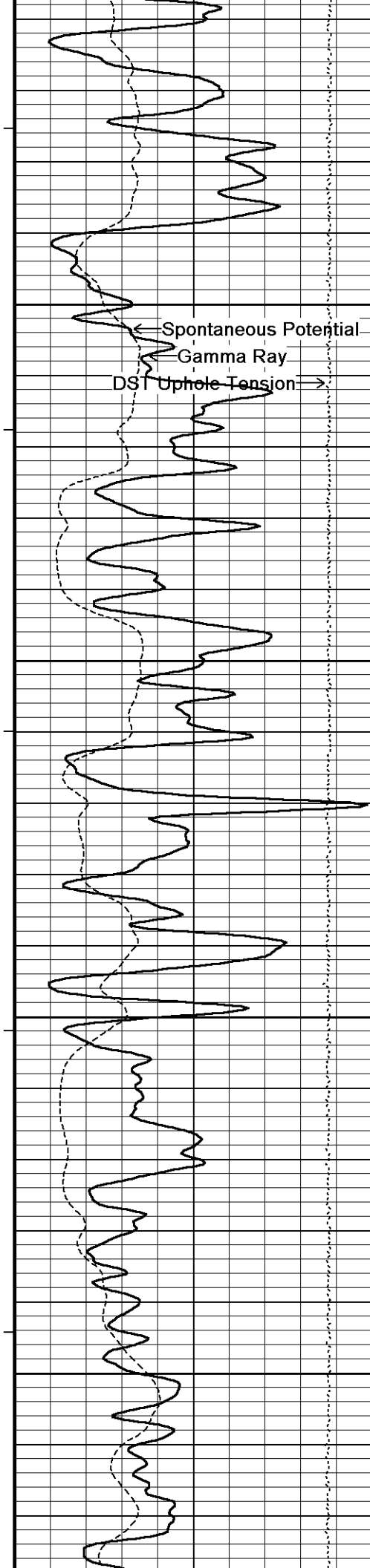
2900

99°

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







100°

3200

101°

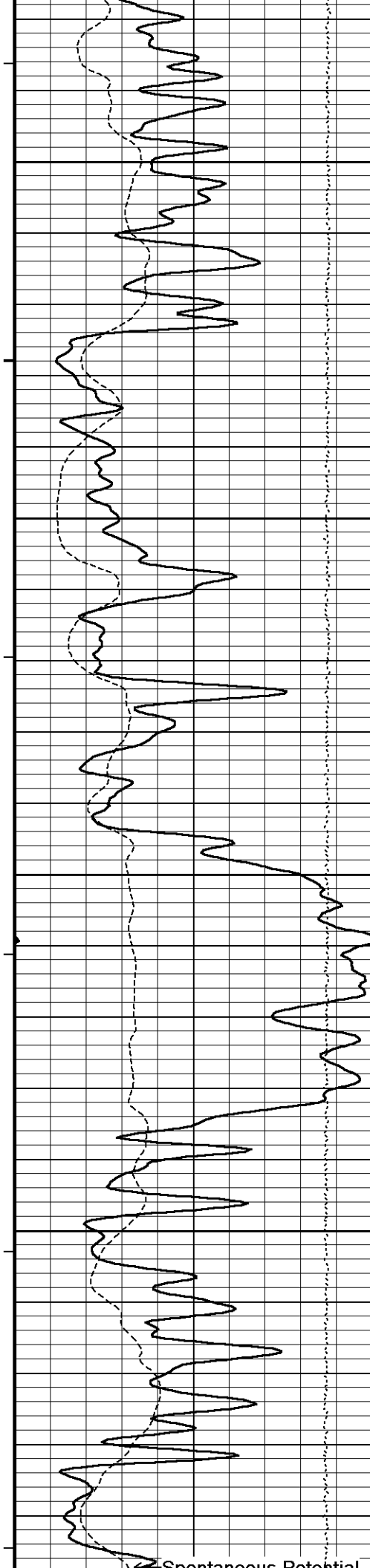
3250

101°

3300

101°

3350



102°

3400

102°

3450

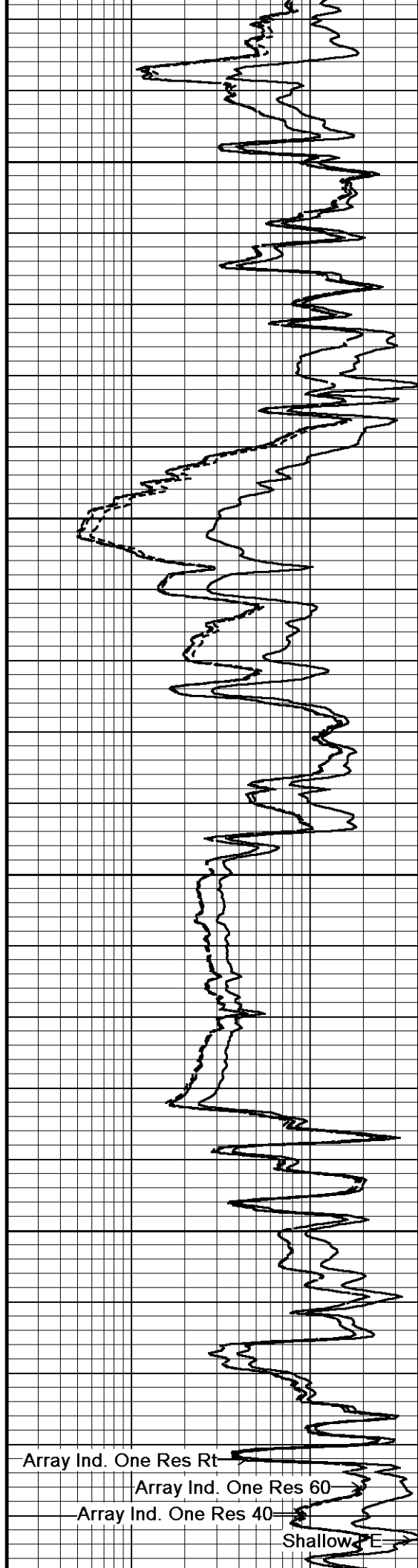
102°

3500

103°

3550

103°

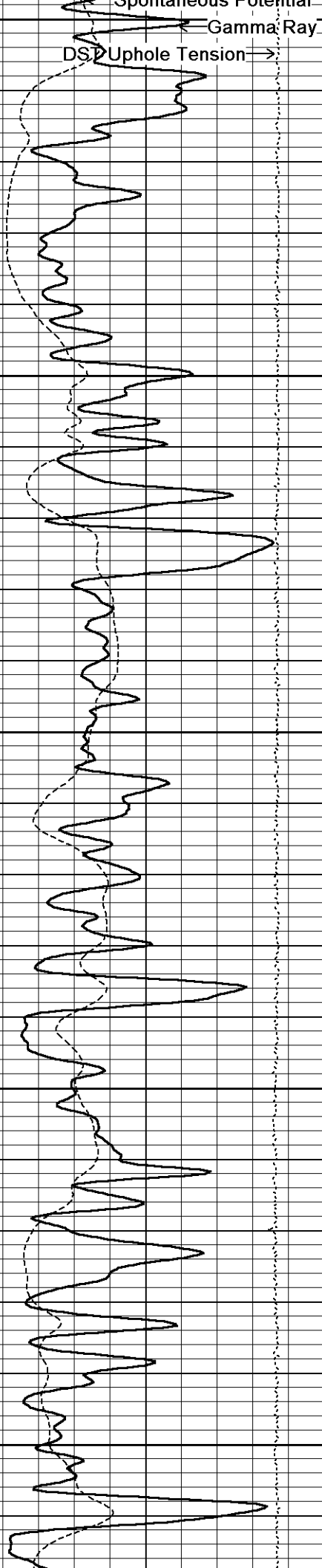


Array Ind. One Res Rt

Array Ind. One Res 60

Array Ind. One Res 40

Shallow E



3600

103°

3650

104°

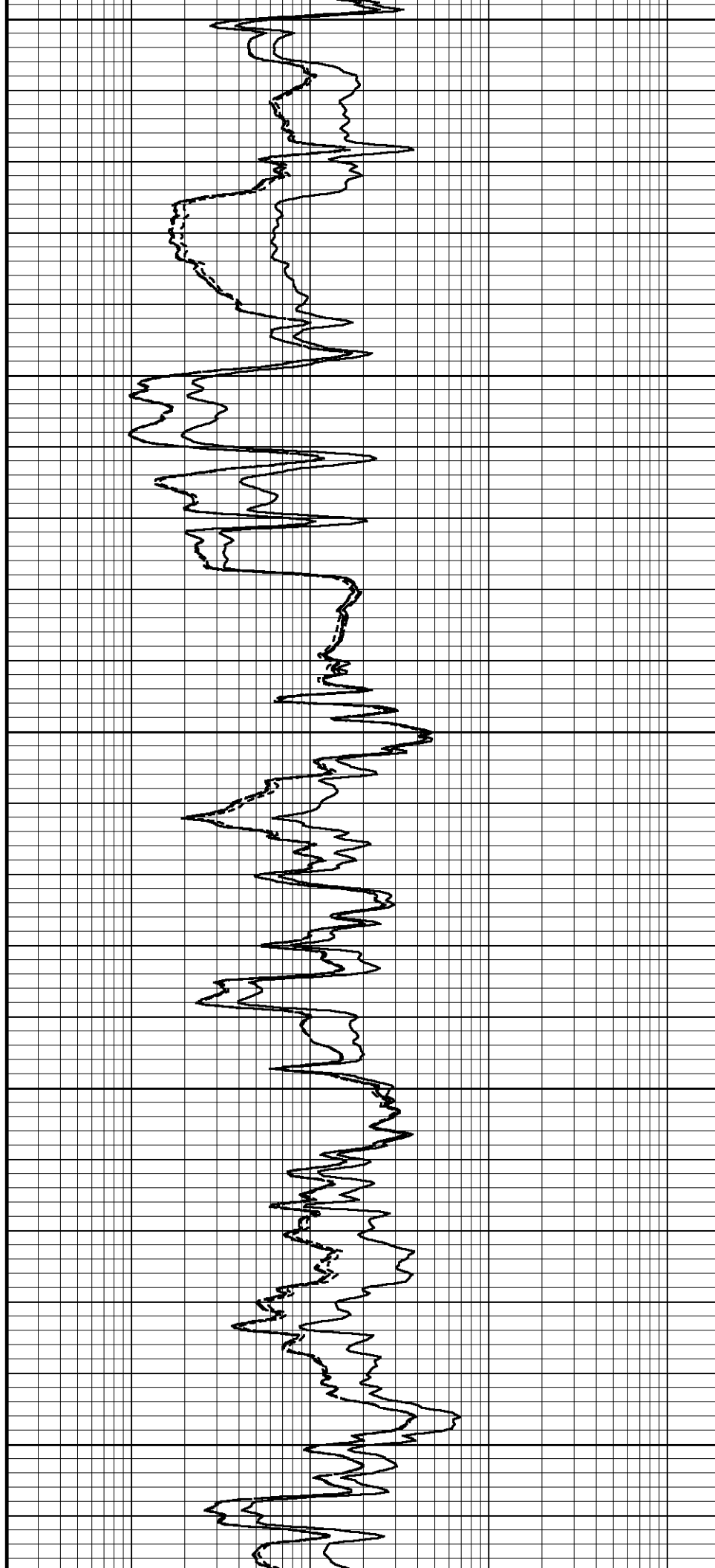
3700

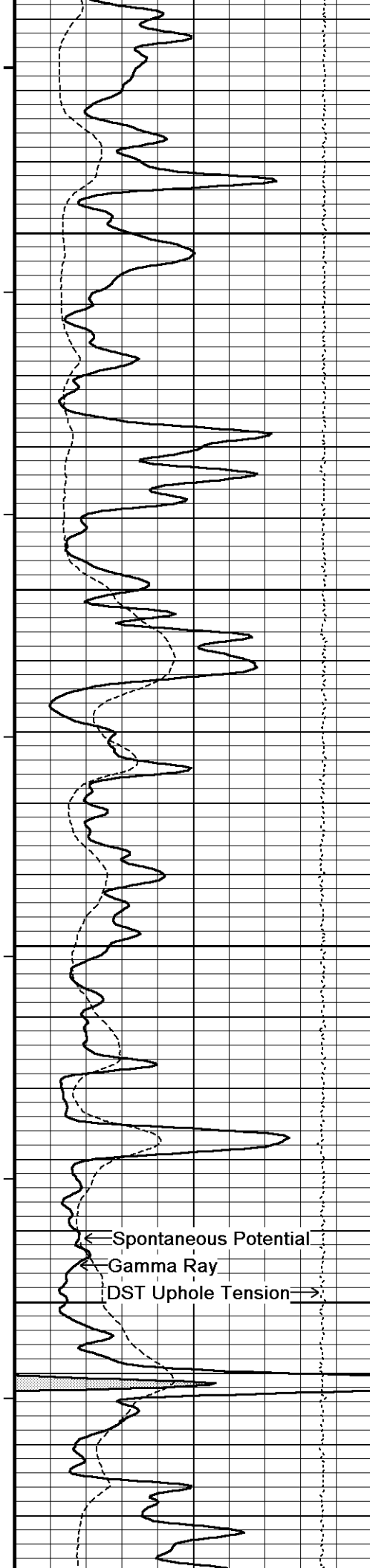
104°

3750

105°

3800





105°

3850

105°

3900

105°

3950

106°

4000

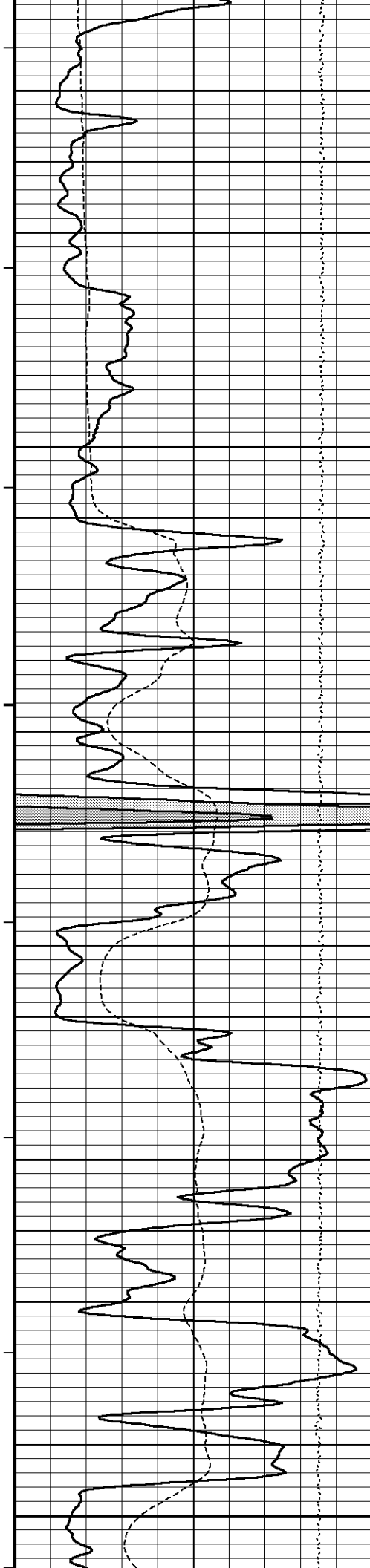
106°

Array Ind. One Res Rt

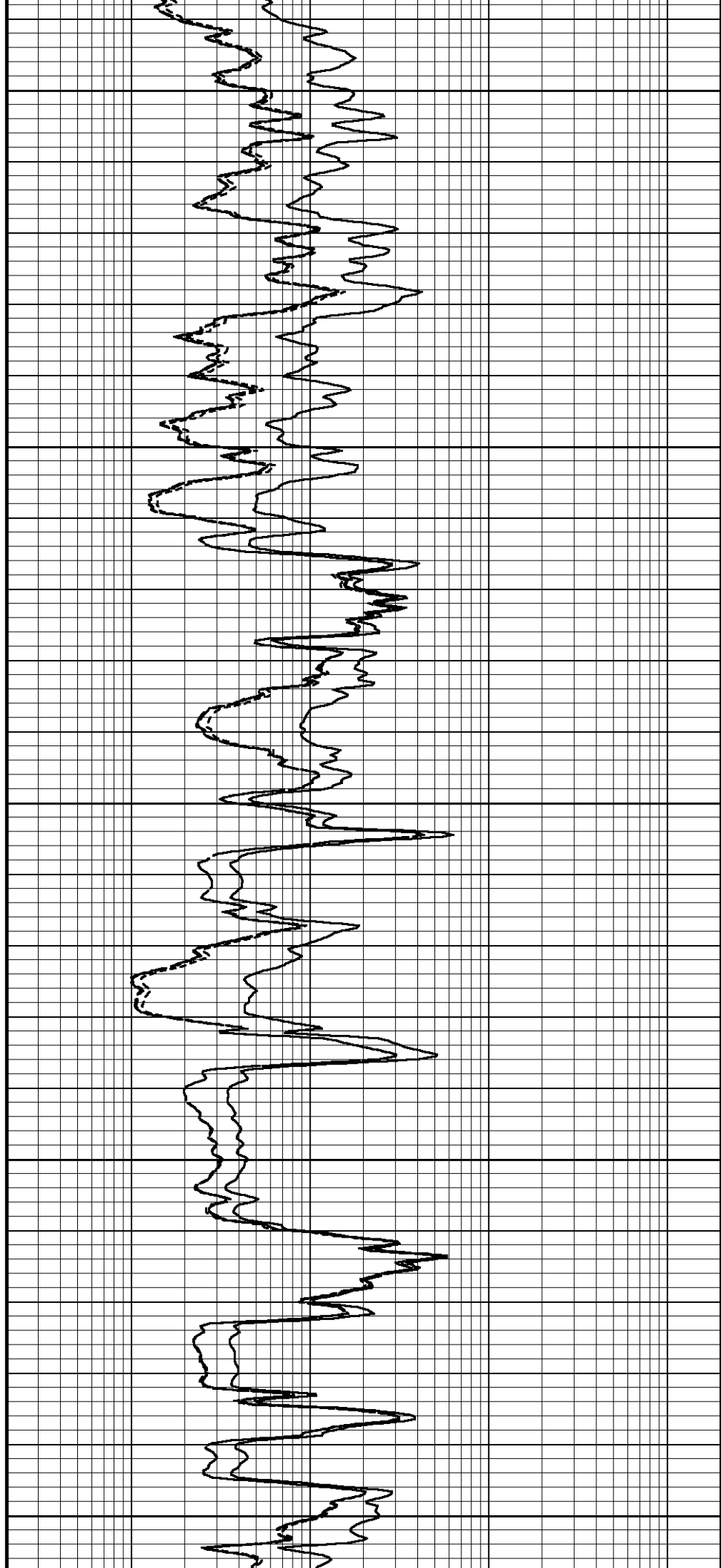
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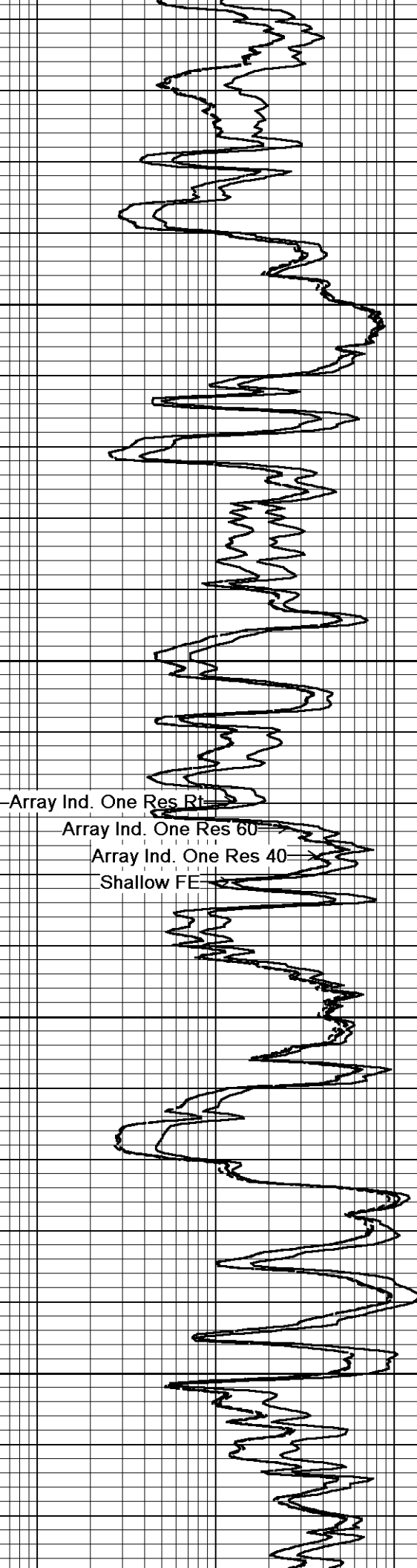
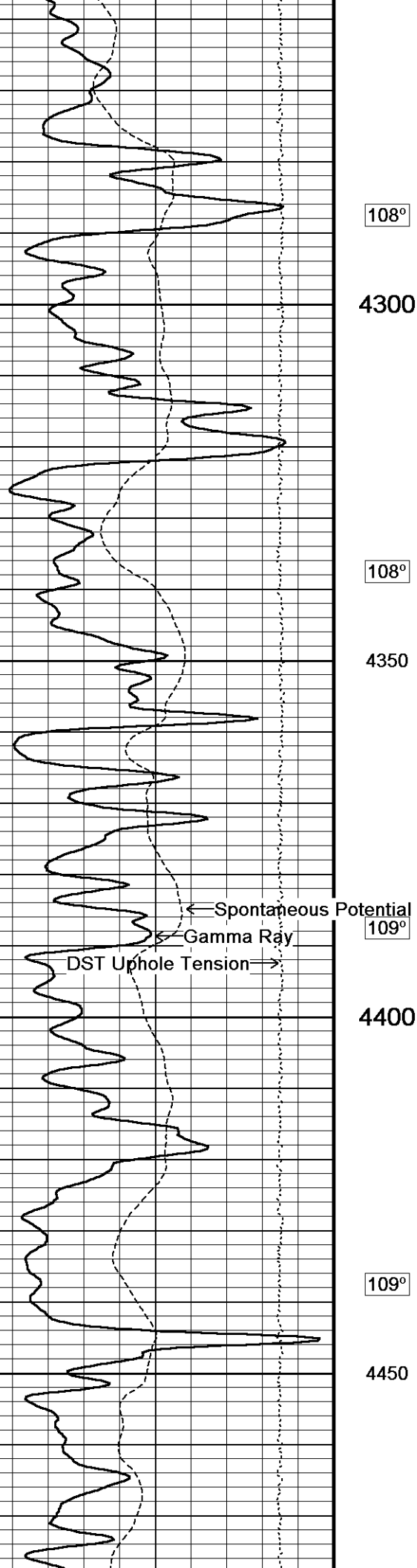
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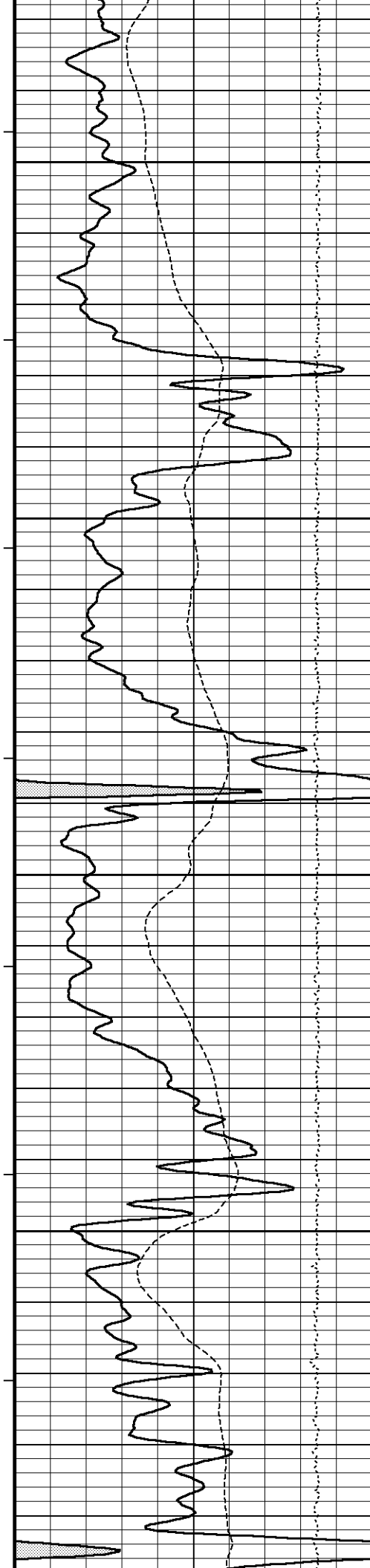
Shallow FE



106°
4050
107°
4100
107°
4150
107°
4200
108°
4250







109°

4500

110°

4550

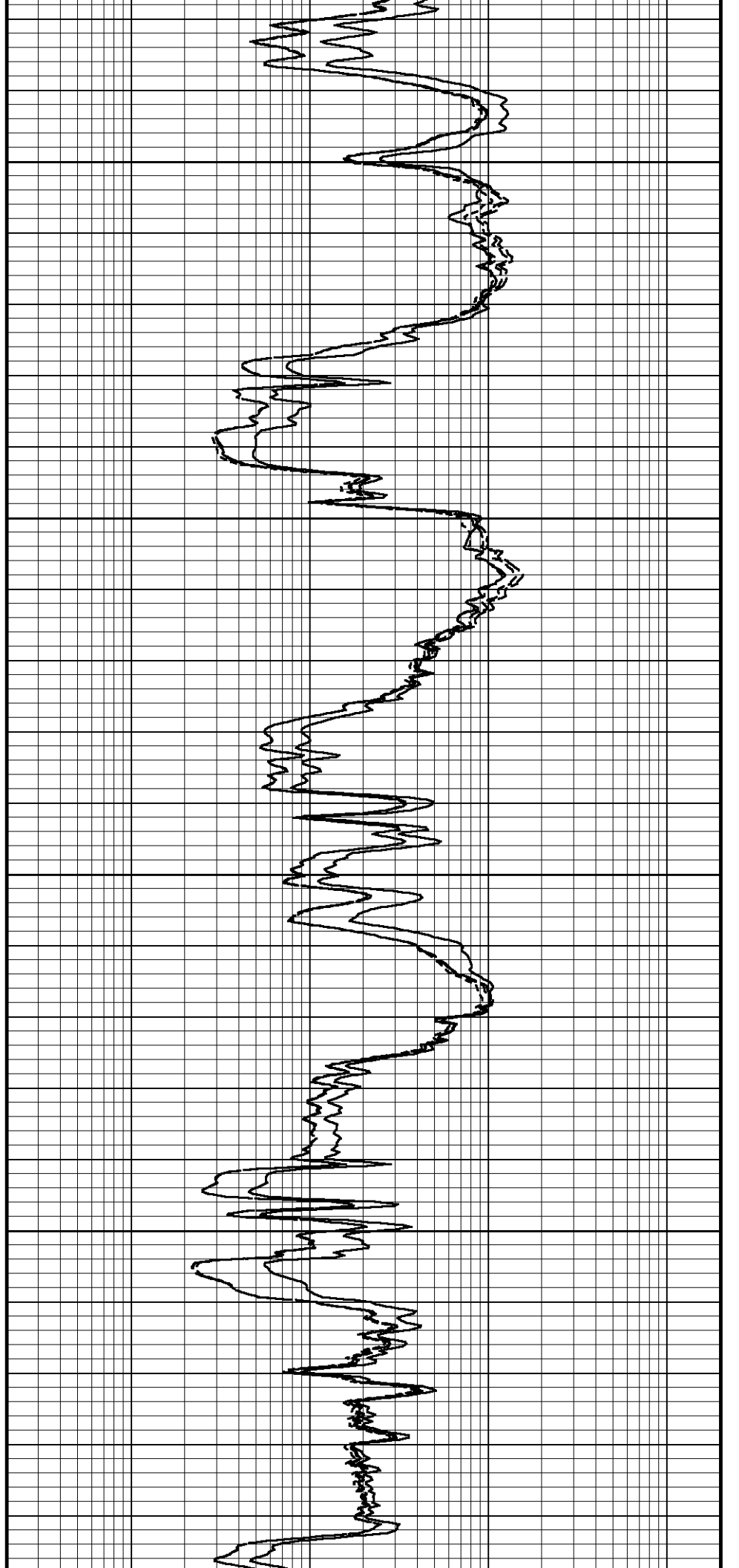
110°

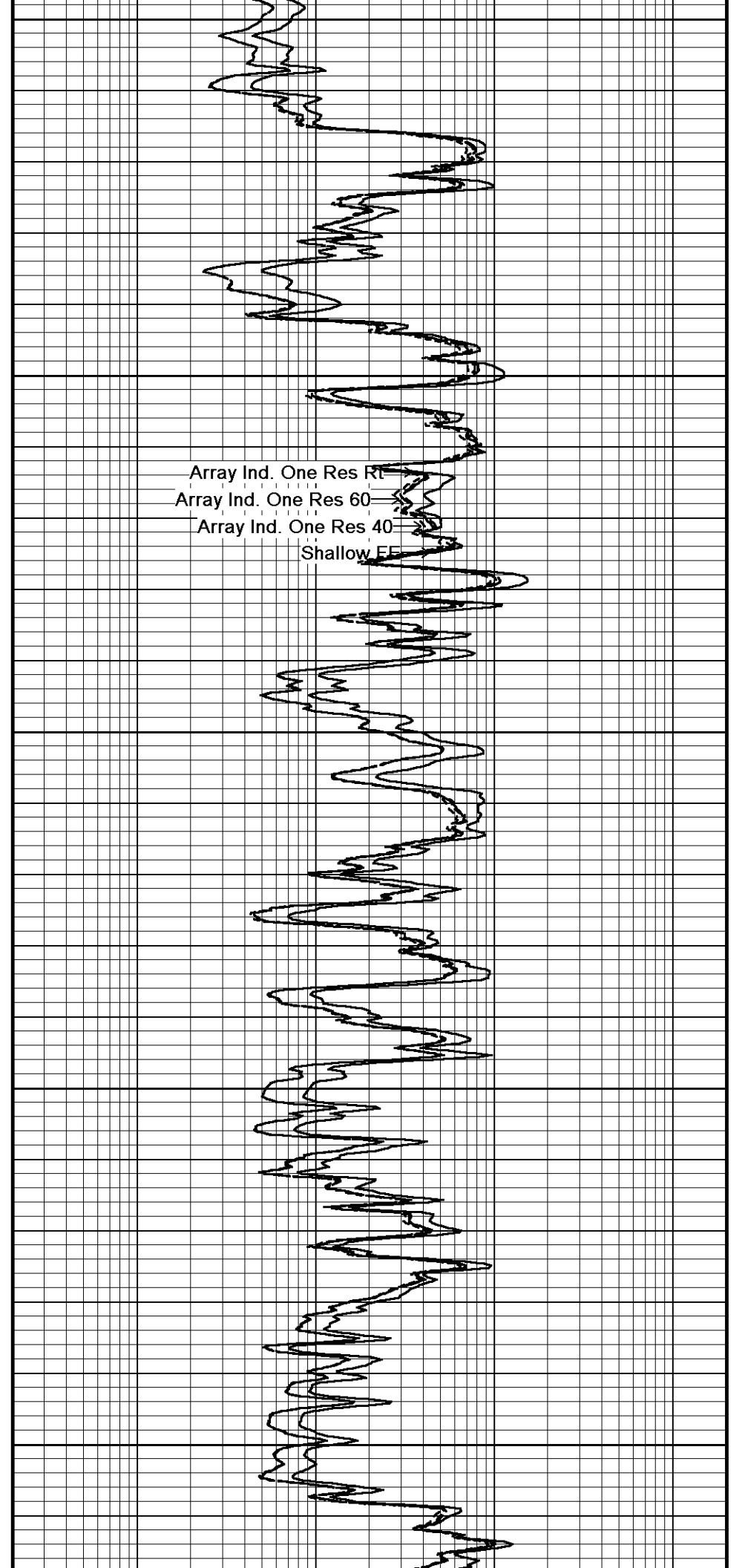
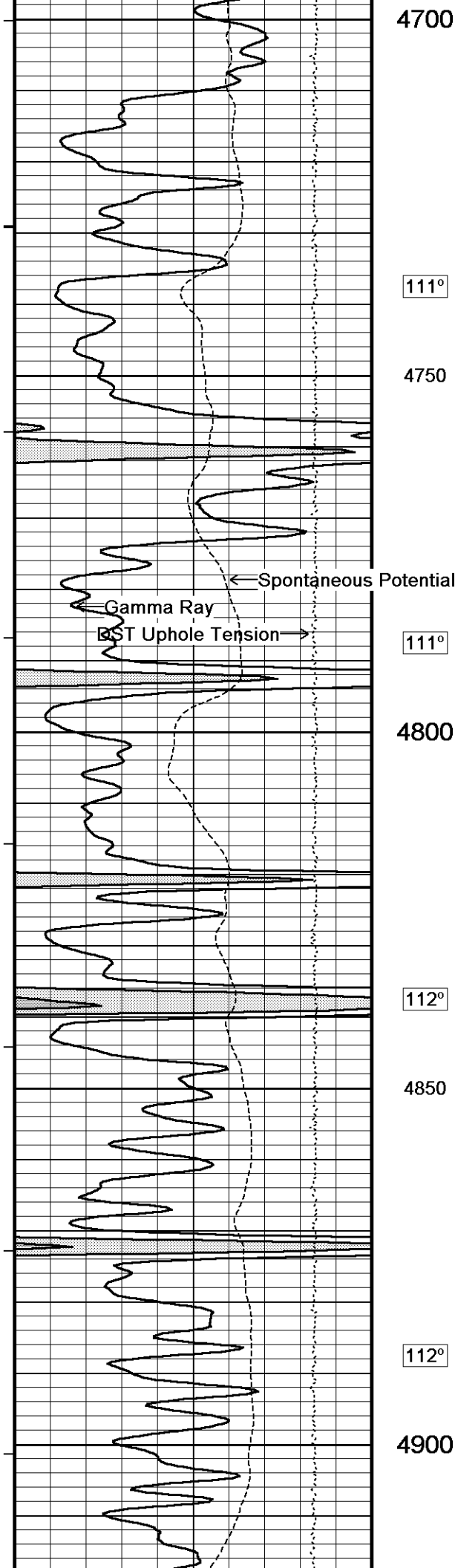
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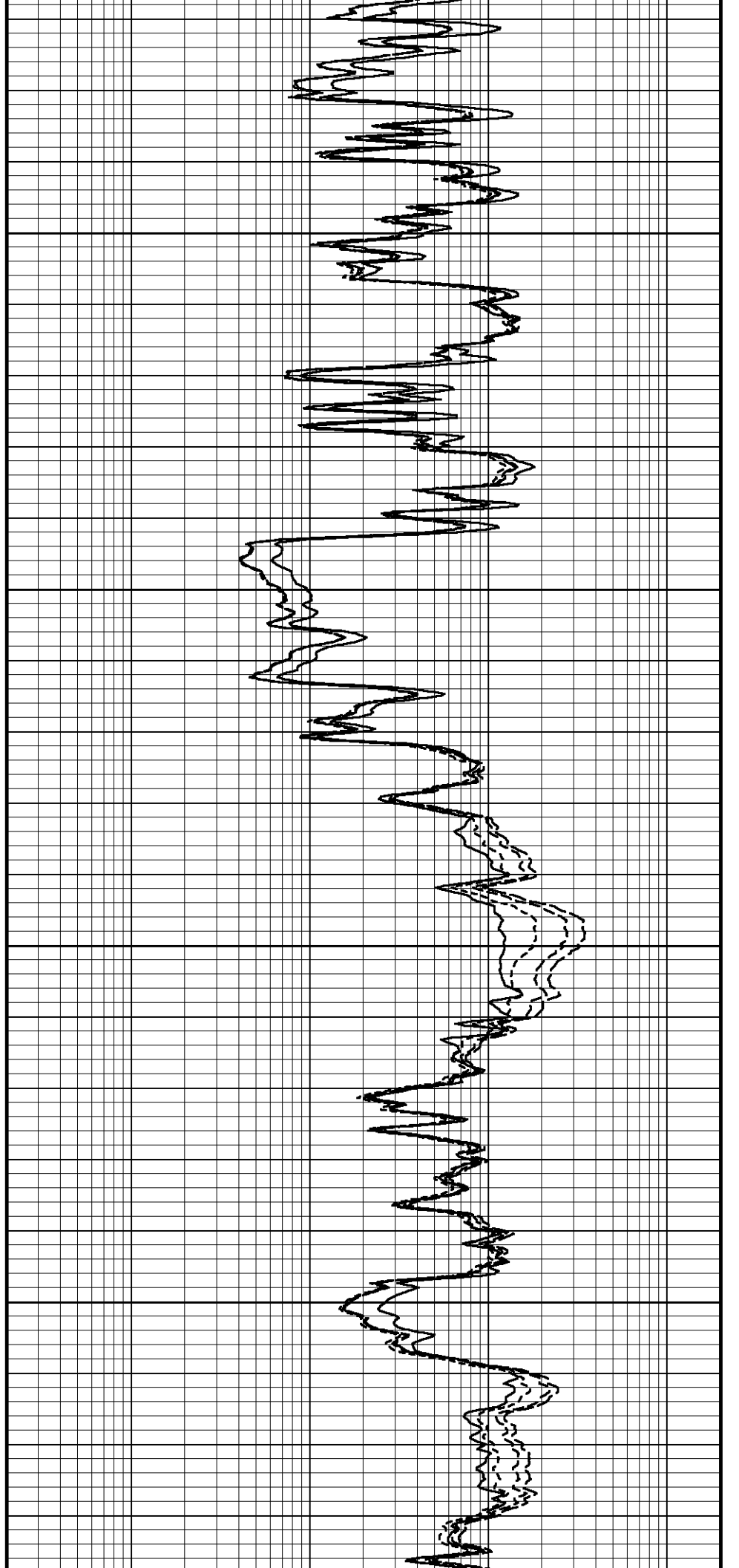
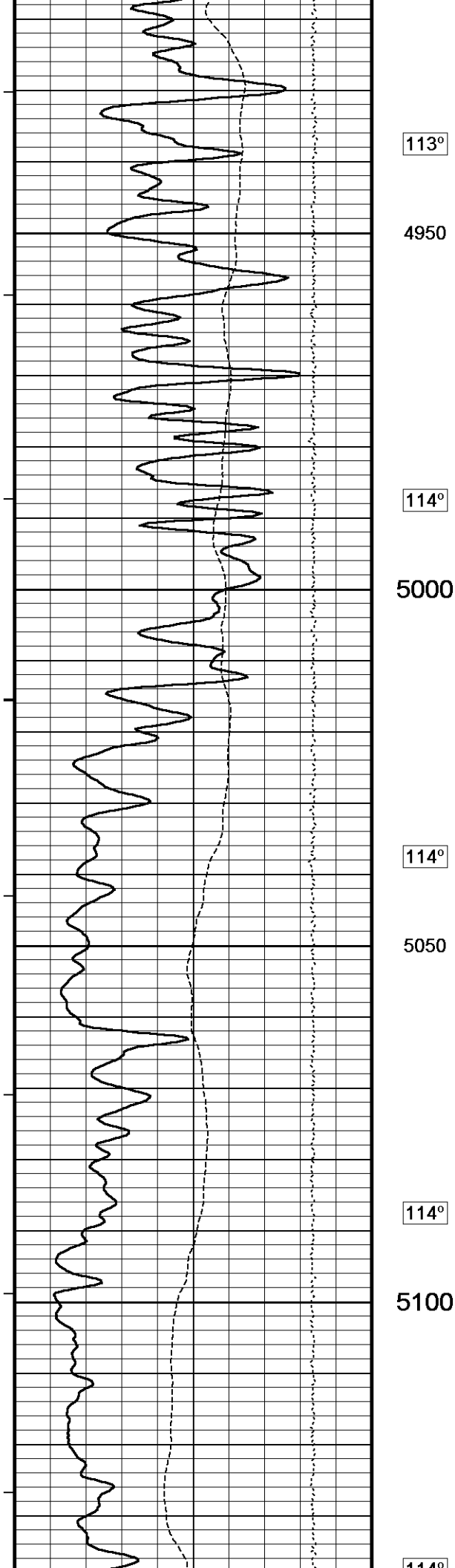
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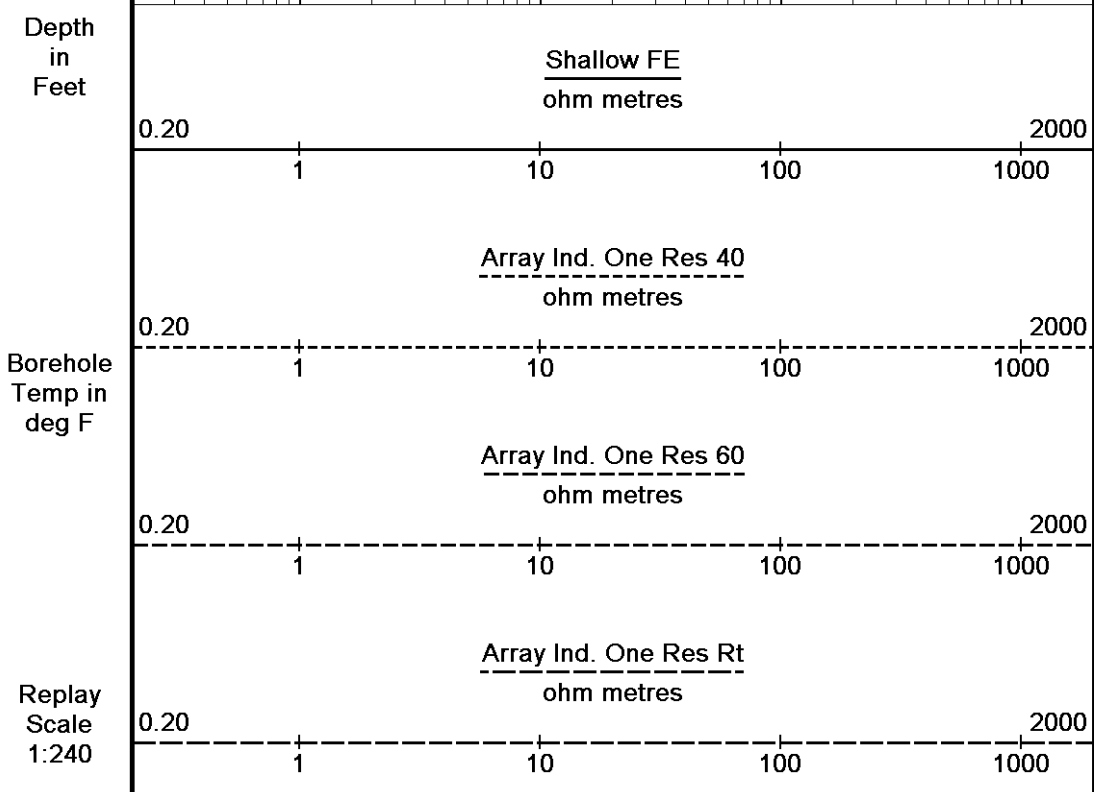
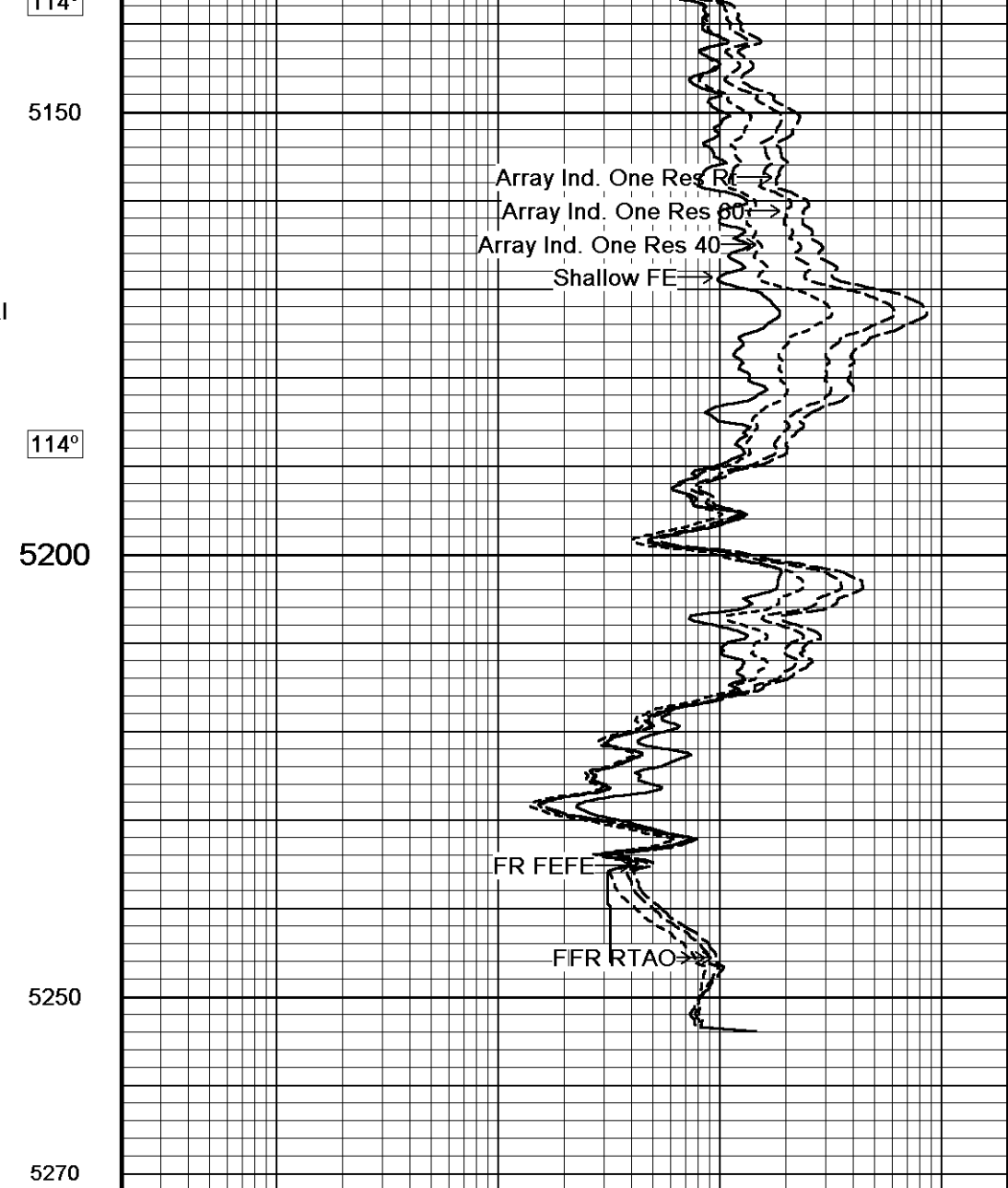
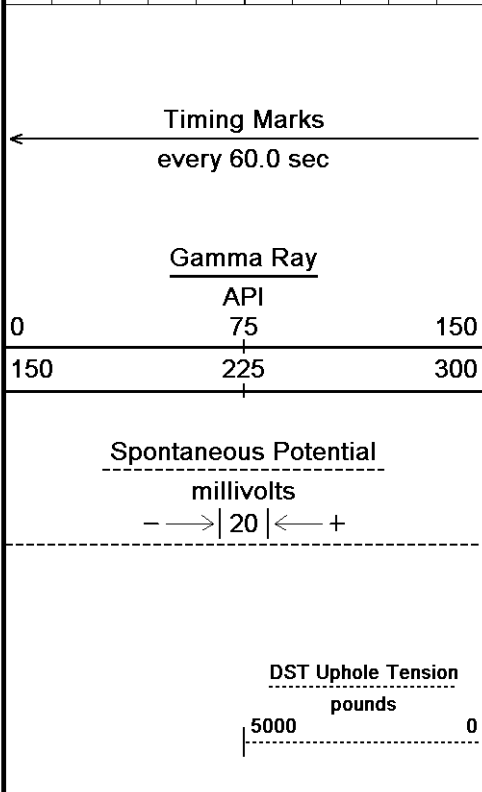
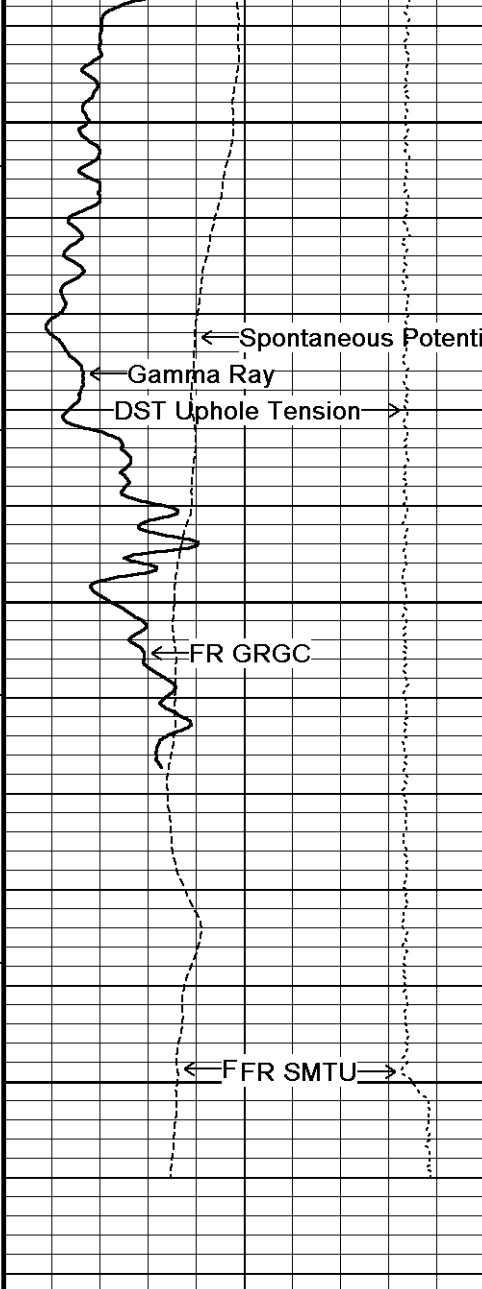
4650

111°





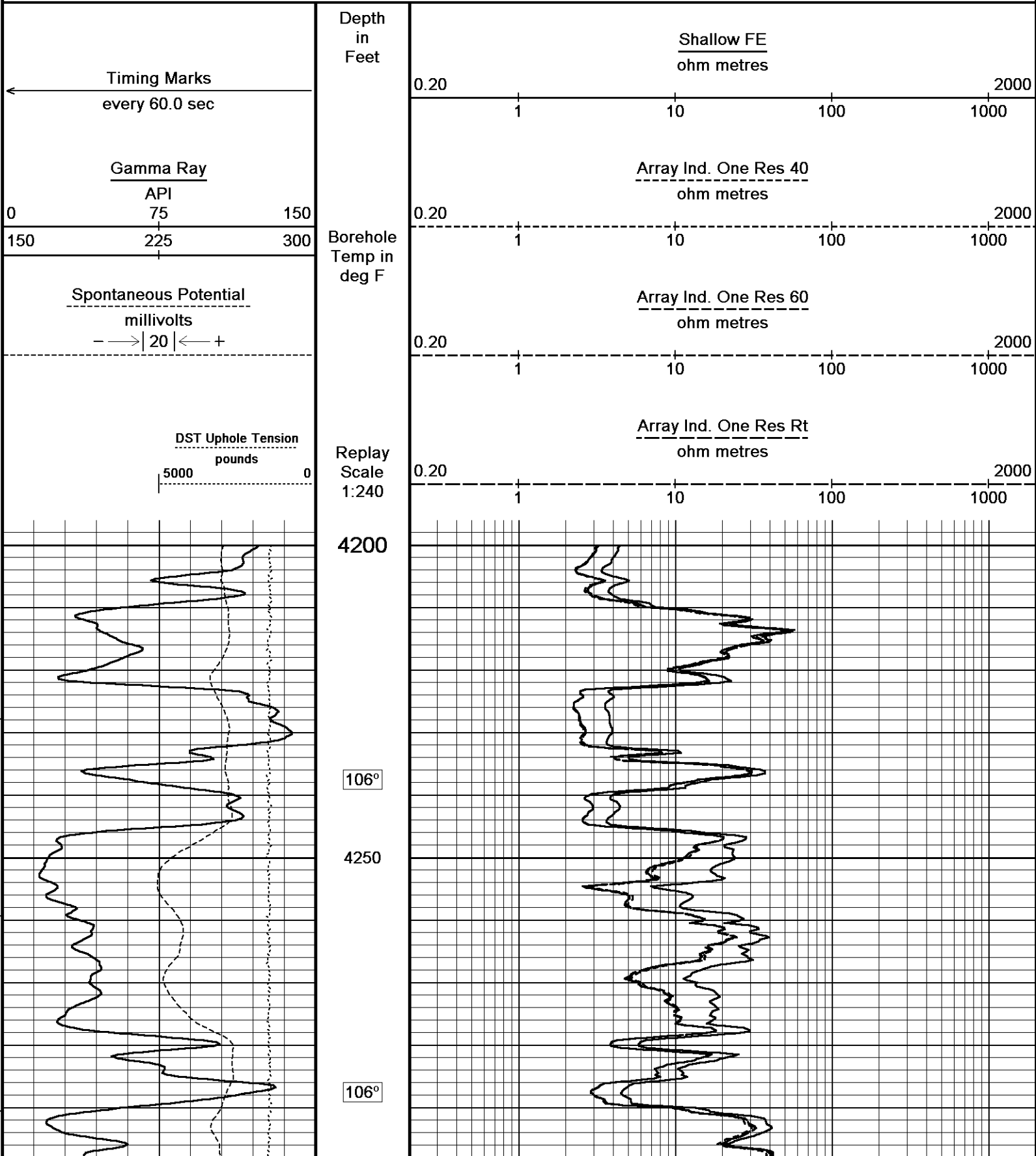




REPEAT SECTION

Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\Minimus 13.04.8492\Data\McCoy Petroleum Y...\McCoy Petroleum 'G' Yost #1-18_001.dta
System Versions: Logged with 13.04.8492 Plotted with 13.04.8492

Plotted on 30-DEC-2012 01:47
Recorded on 29-DEC-2012 22:49



4300

107°

4350

Spontaneous Potential

Gamma Ray

DST Uphole Tension

4400

107°

4450

107°

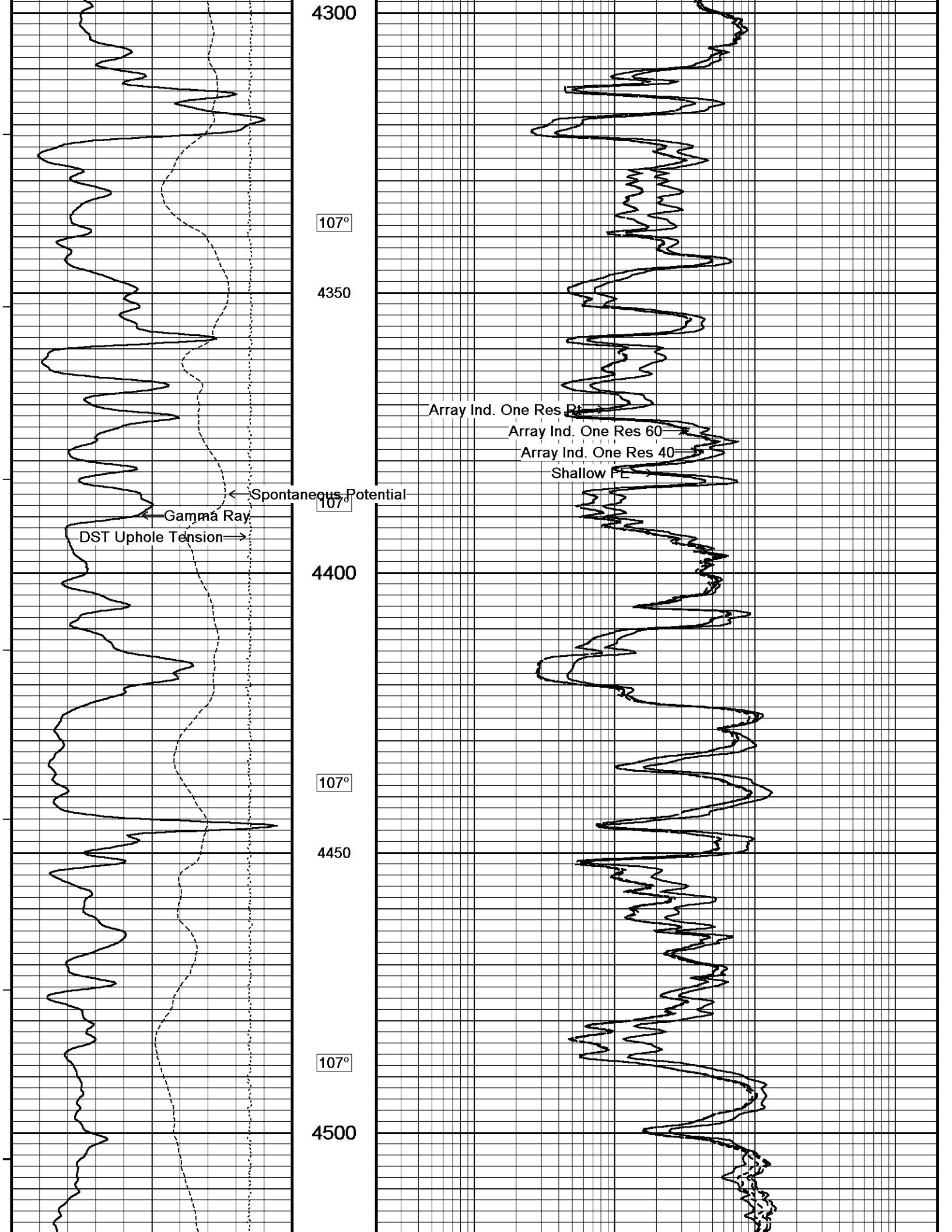
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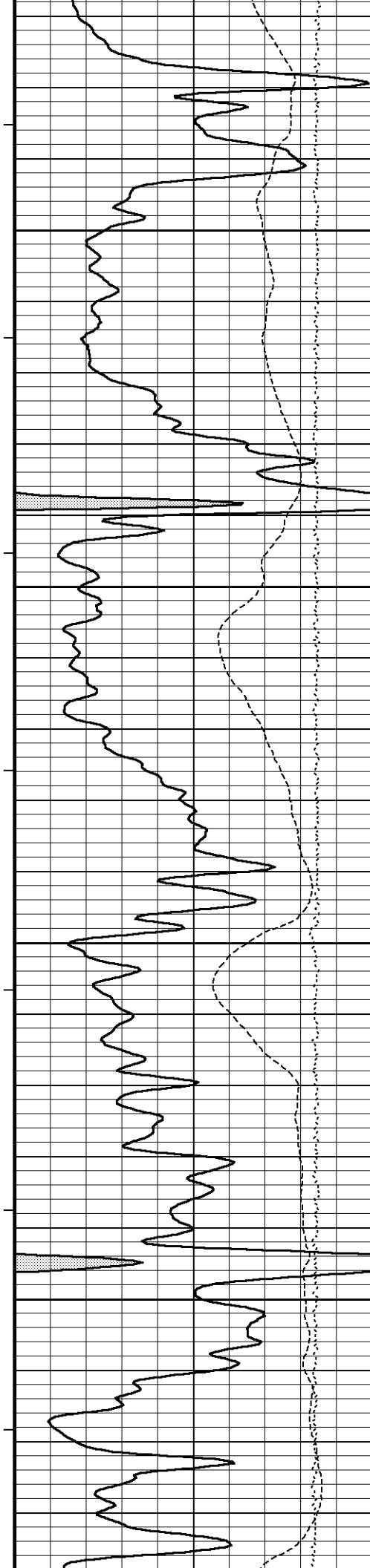
Array Ind. One Res Pt

Array Ind. One Res 60

Array Ind. One Res 40

Shallow FL





108°

4550

108°

4600

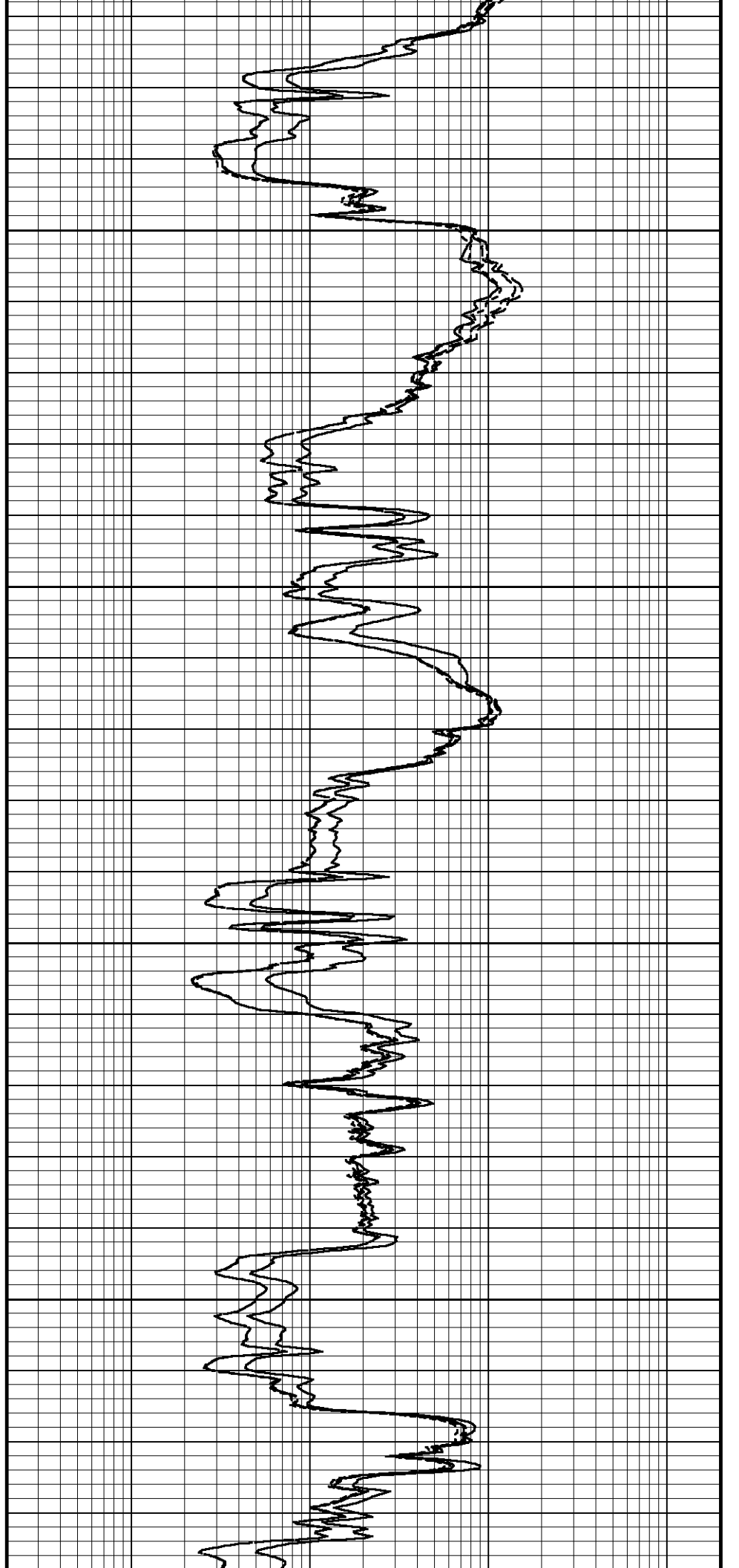
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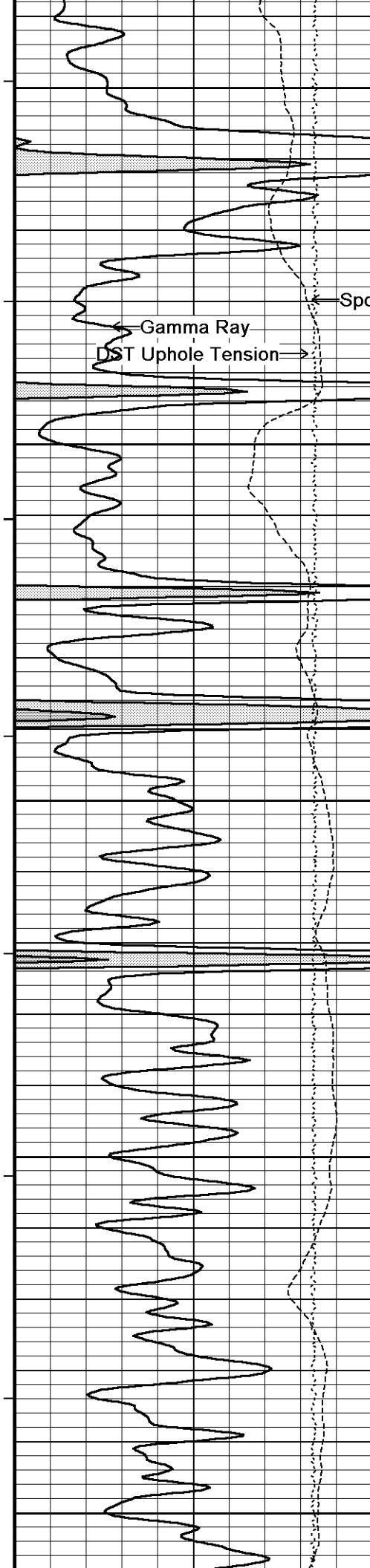
4650

108°

4700

108°





108°

4750

108°

4800

108°

4850

108°

4900

109°

4950

Spontaneous Potential

Gamma Ray

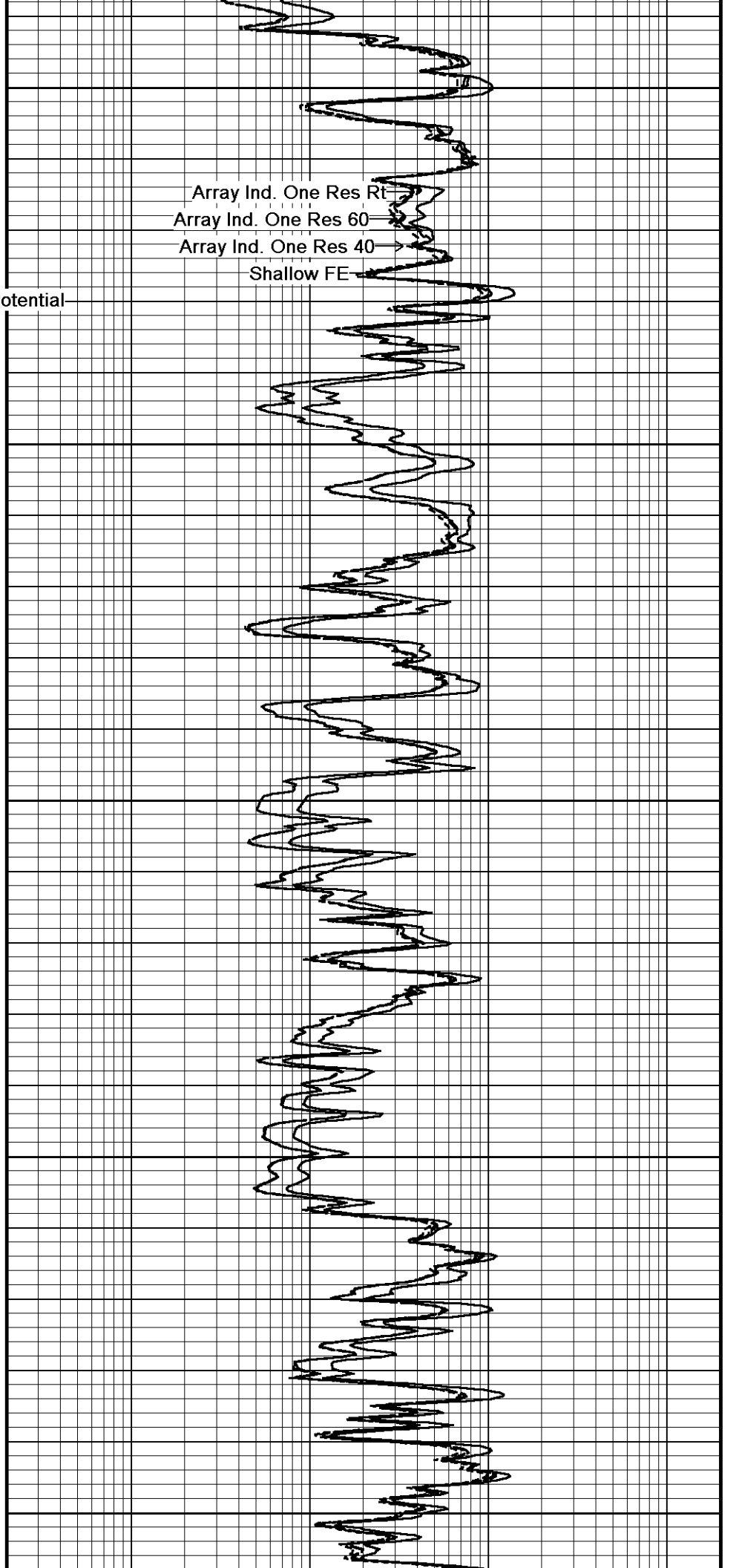
DST Uphole Tension

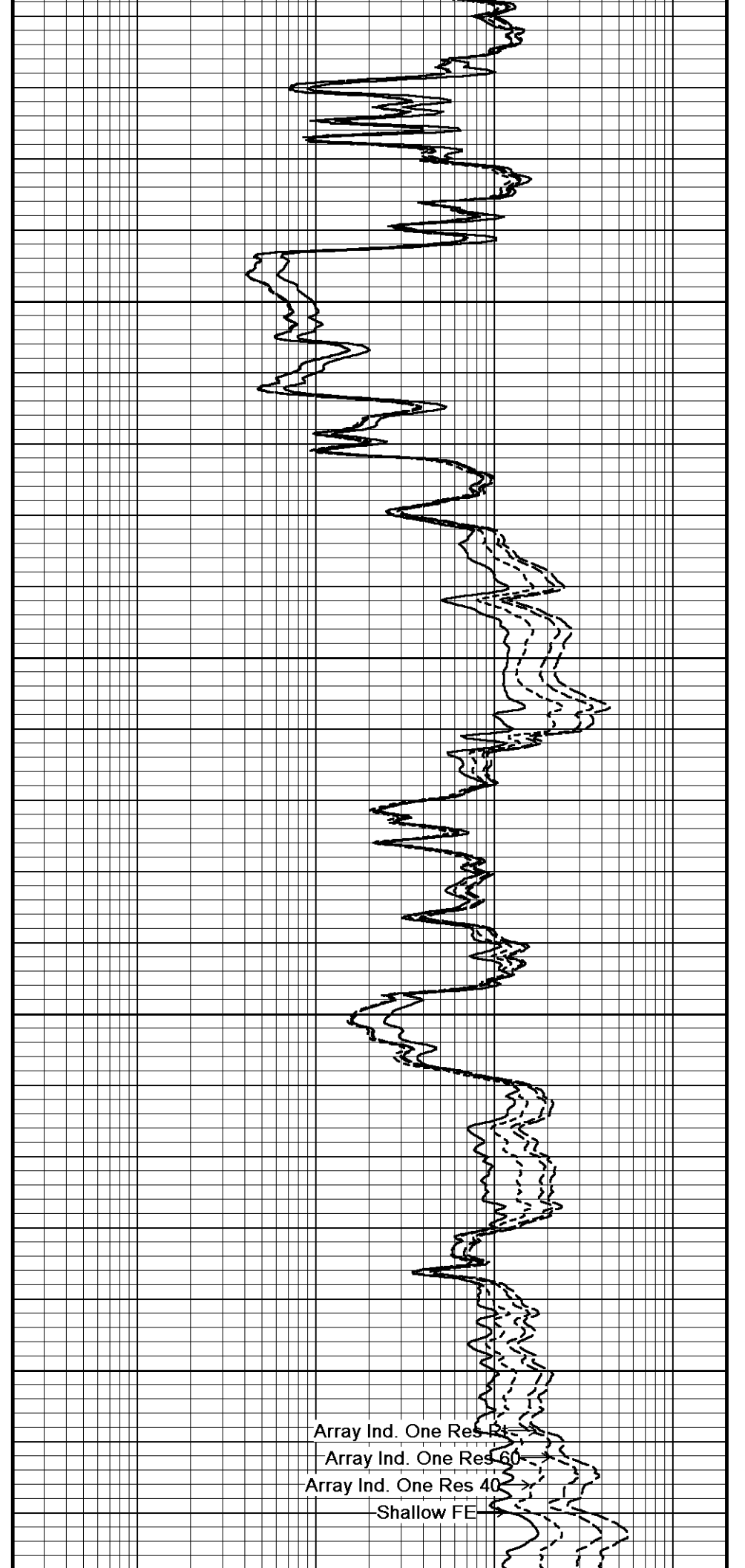
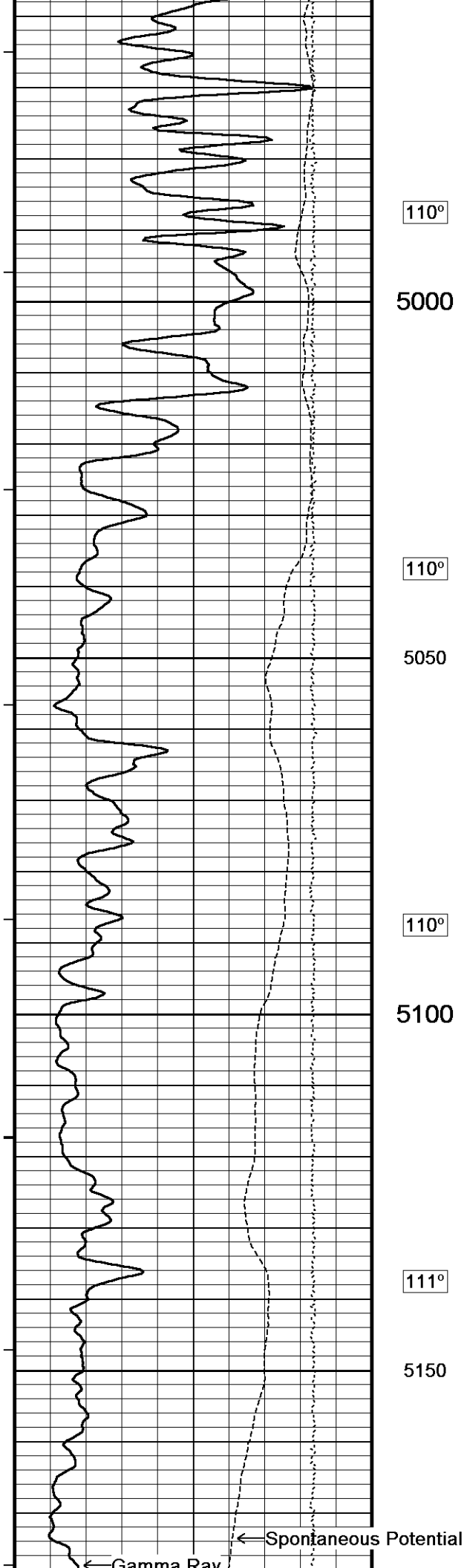
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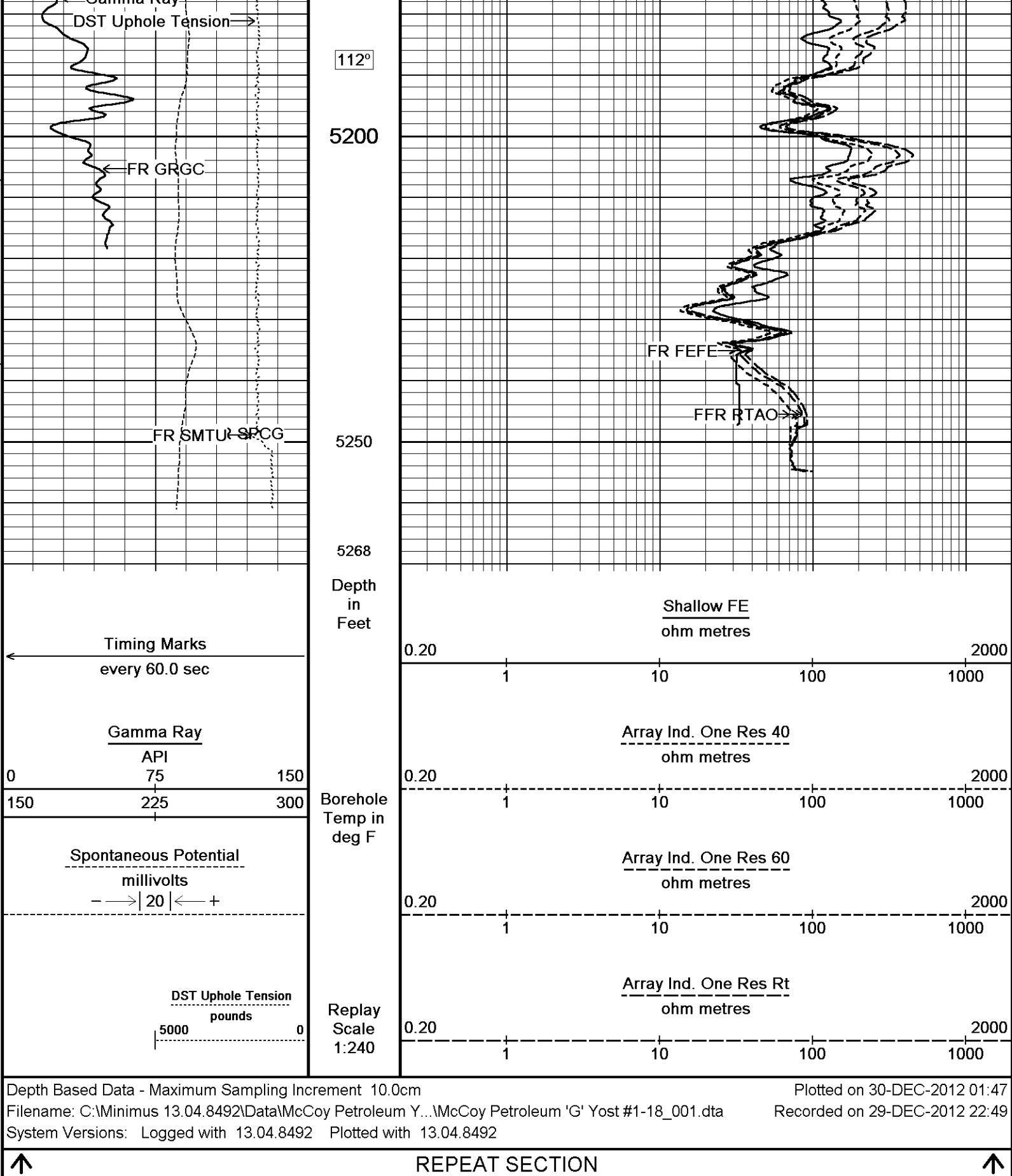
Array Ind. One Res 60

Array Ind. One Res 40

Shallow FE







BEFORE SURVEY CALIBRATION

C:\Minimus 13.04.8492\Data\McCoy Petroleum Yost 'G' #1-18\McCoy Petroleum 'G' Yost #1-18_001.dta

General Constants All 000

Last Edited on 29-DEC-2012,20:03

General Parameters

Mud Resistivity

0.540

ohm-metres

Mud Resistivity	90.000	ohm metres
Water Level	0.000	degrees F
Borehole Fluid Processing	Wet Hole	feet
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	Density Caliper	
Rwa Parameters		
Porosity used	Base Density Porosity	
Resistivity used	Array Ind. Four Res Rt	
RWA Constant A	0.610	
RWA Constant M	2.150	

High Resolution Temperature Calibration MCG-C 208			Field Calibration on 05-NOV-2012,14:26
	Measured	Calibrated(Deg F)	
Lower	50.00	50.00	
Upper	75.00	75.00	

High Resolution Temperature Constants MCG-C 208			Last Edited on 05-NOV-2012,14:25
Pre-filter Length	11		

Gamma Calibration MCG-C 208			Field Calibration on 29-DEC-2012 16:00
	Measured	Calibrated (API)	
Background	66	46	
Calibrator (Gross)	1117	771	
Calibrator (Net)	1051	725	

Gamma Constants MCG-C 208			Last Edited on 29-DEC-2012,20:03
Gamma Calibrator Number	GR38		
Mud Density	1.11	gm/cc	
Caliper Source for Processing	Density Caliper		
Tool Position	Eccentred		
Concentration of KCl	0.00	kppm	

FE Calibration MFE-B.J 352			Base Calibration on 12-DEC-2012 09:38 Field Check on 29-DEC-2012 15:45
Base Calibration			
	Measured	Calibrated (ohm-m)	
Reference 1	0.0	0.0	
Reference 2	963.4	126.8	
Base Check		281.6	
Field Check		281.5	

FE Constants MFE-B.J 352			Last Edited on 29-DEC-2012,19:54
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 45			Base Calibration on 26-JUL-2012,09:22 Field Check on 29-DEC-2012 15:44
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

78.4

Deg F

Channel	Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High
1			19.1	3851.9
2			31.9	3629.5
3			28.8	3049.4
4			18.4	2079.2
Deep			16.2	1911.1
Medium			42.7	4060.6
Shallow			49.9	5483.5
Array Temperature			69.5	Deg F

Induction Constants MAI-A.A 45

Last Edited on 29-DEC-2012,19:54

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.	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	

DOWNHOLE EQUIPMENT

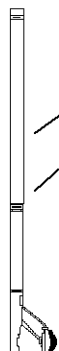
C:\Minimus 13.04.8492\Data\McCoy Petroleum Yost 'G' #1-18\McCoy Petroleum 'G' Yost #1-18_001.dta

Compact Comms Gamma
MCG-C 208 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

43.50 ft GRGC - Gamma Ray
40.59 ft CGXT - MCG External Temperature

Compact Micro-Resistivity
MMR-A 11 LG: 8.59 ft WT: 81.6 lb OD: 4.88 in

33.24 ft MBTC - MMR Caliper
33.24 ft MINV - MMR MicroLog Inverse
33.24 ft MNRL - MMR MicroLog Normal



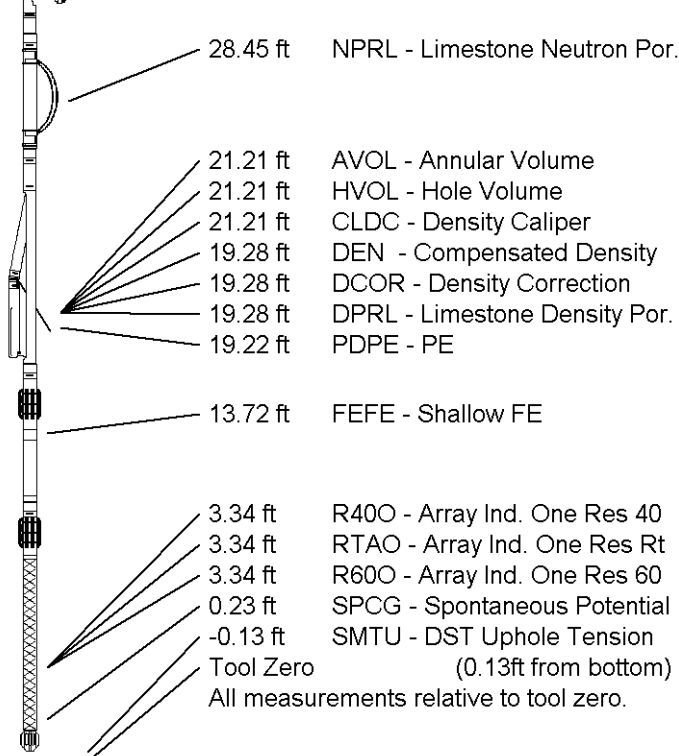
Compact Neutron
MDN-A.B 65 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper
MPD-B 31 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

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

Compact Induction
MAI-A.A 45 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 48.78 ft Weight: 383.6 lb



COMPANY MCCOY PETROLEUM CORP.
WELL YOST 'G' #1-18
FIELD WILDCAT
PROVINCE/COUNTY GRAY
COUNTRY/STATE U.S.A. / KANSAS

Elevation Kelly Bushing	2763.00	feet	First Reading	5246.00	feet
Elevation Drill Floor	2762.00	feet	Depth Driller	5250.00	feet
Elevation Ground Level	2750.00	feet	Depth Logger	5249.00	feet

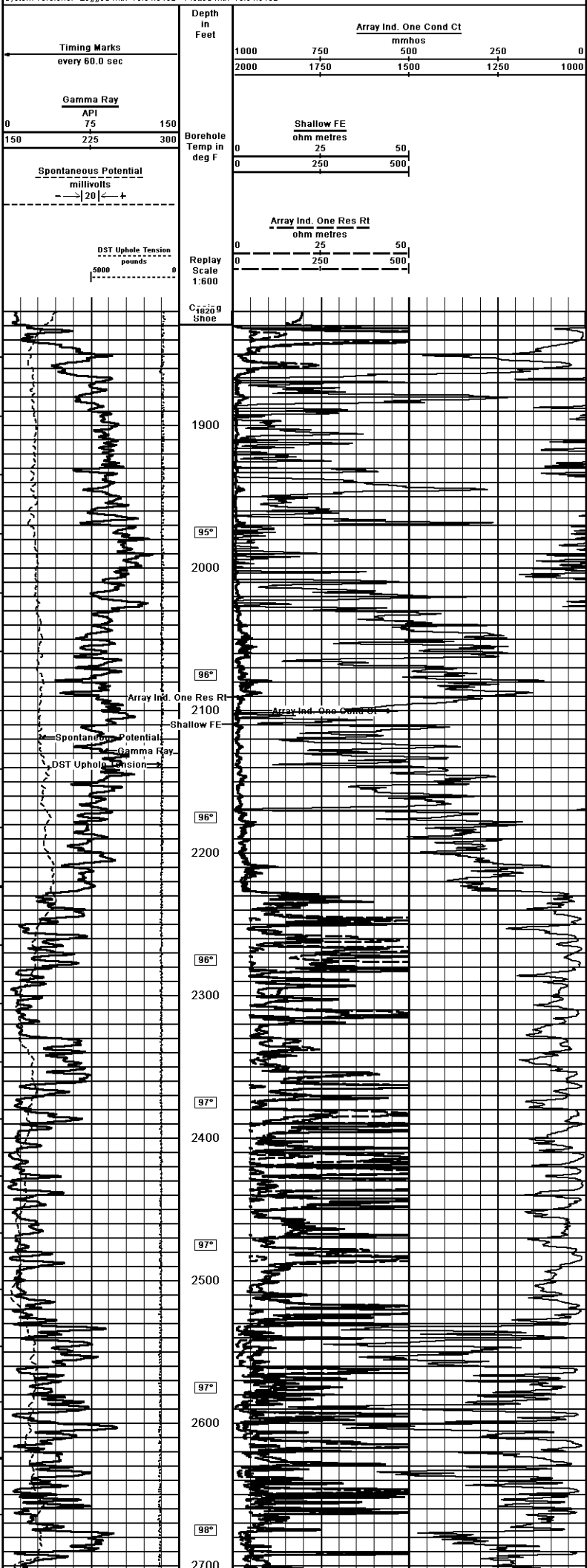


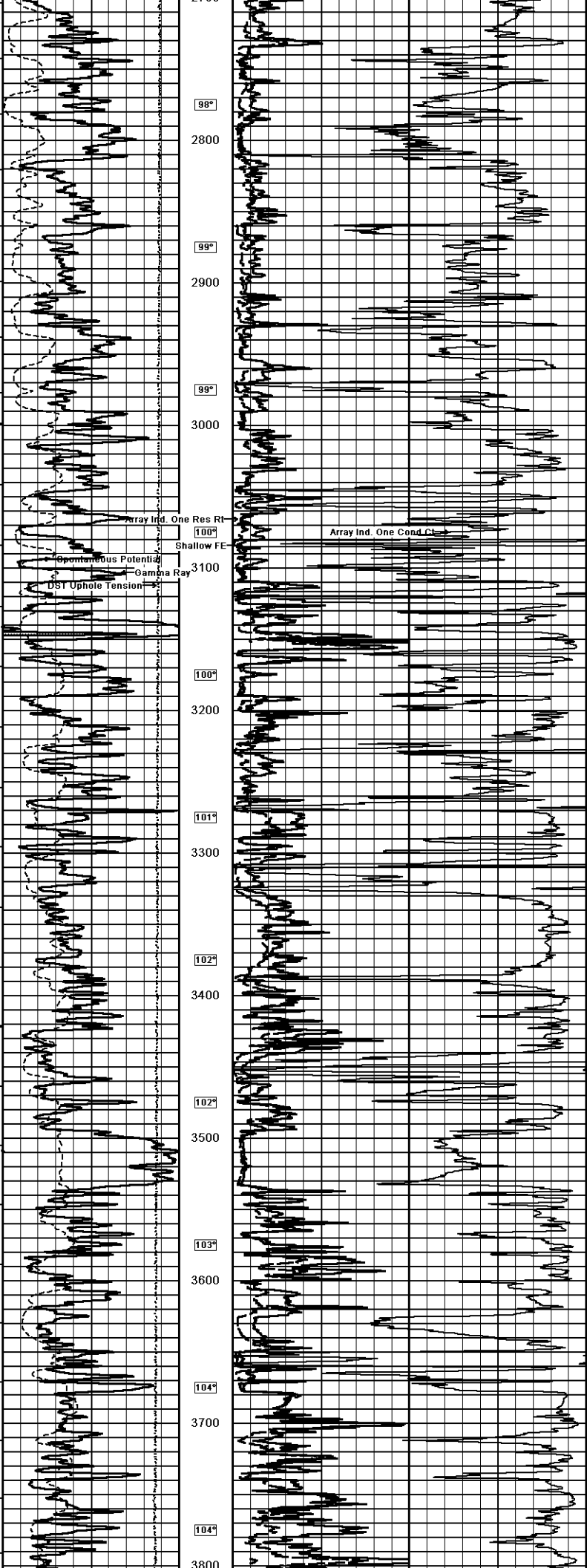
ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG

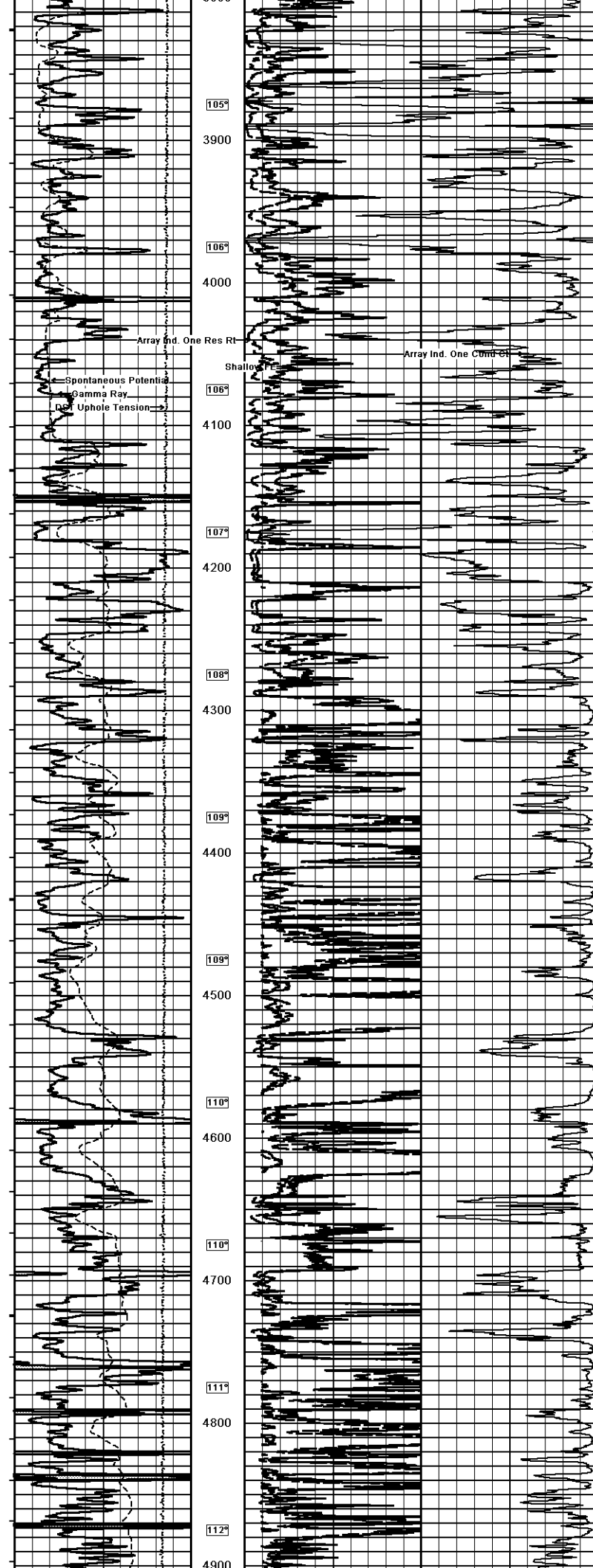
Weatherford®

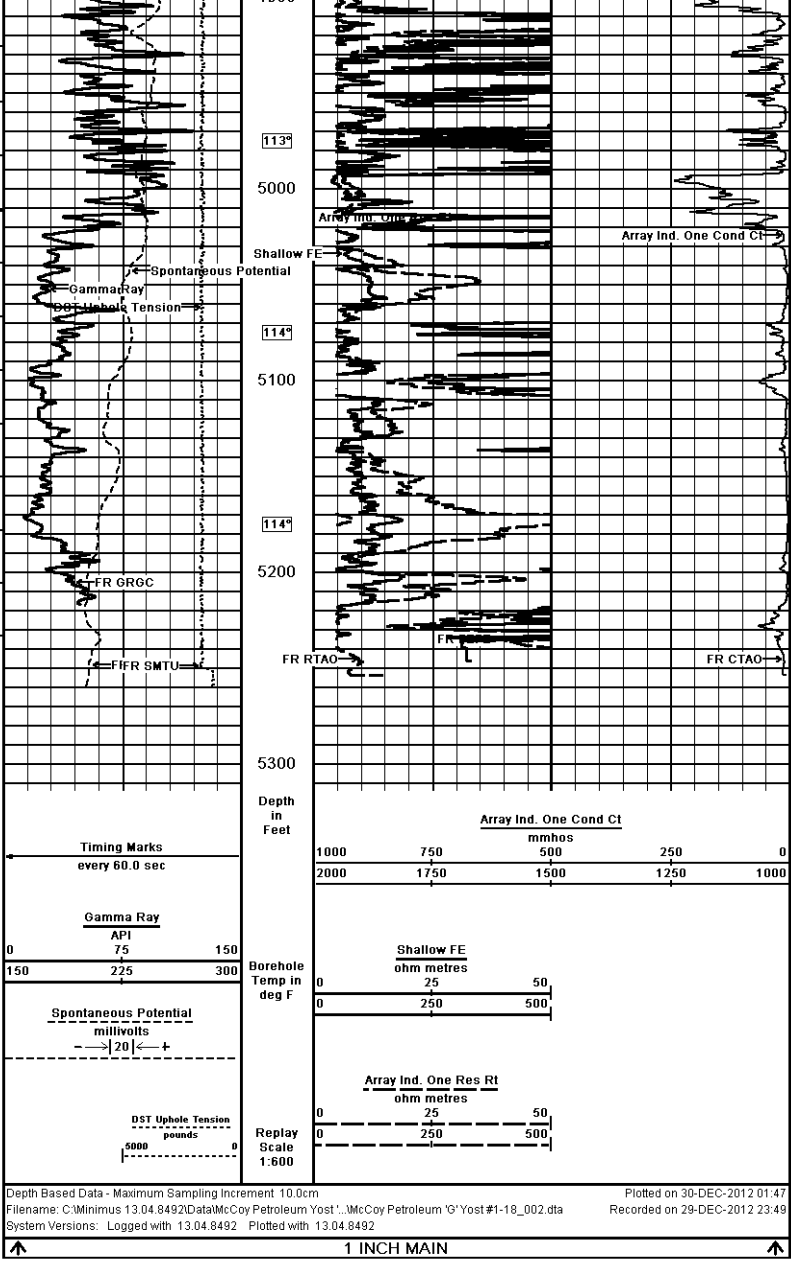
Weatherford		ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG	
COMPANY	MCCOY PETROLEUM CORP.	WELL	YOST 'G' #1-18
FIELD	WILDCAT	PROVINCE/COUNTY	GRAY
COUNTRY/STATE	U.S.A. / KANSAS	LOCATION	660' FNL & 2280' FEL
SEC	18	TWP	27S
R	27S	R	28W
SPR Number	15-065-20419	Other Services	MPD/MON
Permanent Datum G.L. Elevation	2750 feet	Log Measured From	K.B.
Drilling Measured From	K.B.	Log Measured From	K.B.
Date	29-DEC-2012	Run Number	ONE
Service Order	3538965	Depth Driller	5250.00
Depth Logger	5249.00	First Reading	5246.00
Last Reading	5246.00	Depth Driller	5250.00
Casing Driller	1829.00	Depth Logger	5249.00
Bit Size	7.875	Depth Driller	5250.00
Hole Fluid Type	CHEMICAL	Depth Logger	5249.00
Density/Viscosity	9.25 lb/USg	Depth Driller	5250.00
PH/Fluid Loss	10.50	Depth Logger	5249.00
Sample Source	FLOWLINE	Depth Driller	5250.00
Run @ Measured Temp	0.54 @ 90.0	Depth Logger	5249.00
Run @ Measured Temp	0.43 @ 90.0	Depth Driller	5250.00
Run @ Measured Temp	0.05 @ 90.0	Depth Logger	5249.00
Source Rmt/Rmc	CALC	Depth Driller	5250.00
Run @ BHT	0.43 @ 114.0	Depth Logger	5249.00
Time Since Circulation	5 HOURS	Depth Driller	5250.00
Max Recorded Temp	114.00	Depth Logger	5249.00
Equipment / Base	13067	Depth Driller	5250.00
Recorded By	ADAM BILL	Depth Logger	5249.00
Intersected By	EVAN STONE	Depth Driller	5250.00
DOB#	1872-338	Depth Logger	5249.00

1 INCH MAIN









COMPANY		MCCOY PETROLEUM CORP.			
WELL		YOST 'G' #1-18			
FIELD		WILDCAT			
PROVINCE/COUNTY		GRAY			
COUNTRY/STATE		U.S.A. / KANSAS			
Elevation Kelly Bushing	2763.00	feet	First Reading	5246.00	feet
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 Weatherford		ARRAY INDUCTION			
		SHALLOW FOCUSED			
		ELECTRIC LOG			