



Weatherford
180

ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG

COMPANY

SANDRIDGE EXPL. & PRODUCTION LLC

WELL

YANKEE 1-27 SWD

FIELD

BEALS FIELD AREA

PROVINCE/COUNTY

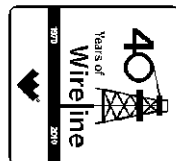
COMANCHE

COUNTRY/STATE

U.S.A. / KANSAS

LOCATION

406' FSL & 261' FWL, SW/4



SEC

TWP
33S

Other Services
MPD/MDN
MML

API Number

15-033-21626

Permit Number

Permanent Datum G.L., Elevation 1838 feet

Log Measured From KB

Drilling Measured From 1381

Date

14-MAR-2012

Run Number

ONE

Depth Driller

6200.00 feet

Depth Logger

6194.00 feet

First Reading

6191.00 feet

Last Reading

615.00 feet

Casing Driller

618.00 feet

Casing Logger

615.00 feet

Bit Size

8.750 inches

Hole Fluid Type

CHEMICAL

Density / Viscosity

9.30 lb/USg

48.00 CP

PH / Fluid Loss

9.50

6.80 ml/30Min

Sample Source

FLOWLINE

Rm @ Measured Temp

0.62 @ 84.0 ohm-m

Rmf @ Measured Temp

0.50 @ 84.0 ohm-m

Rmc @ Measured Temp

0.74 @ 84.0 ohm-m

Source Rmf / Rmc

CALC

CALC

Rm @ BHT

0.41 @128.0 ohm-m

Time Since Circulation

5 HOURS

Max Recorded Temp

128.00 deg F

Equipment Name

COMPACT

Equipment / Base

13096

LIB

R. HOFFMAN

JIMMY DURDEN

KATHY GENTRY

3534716

LB12-064

BOREHOLE RECORD

Last Edited: 14-MAR-2012 14:56

Bit Size
inches

8.750

Depth From
feet

615.00

Depth To
feet

6194.00

CASING RECORD

Type

SURFACE

Size
inches

9.625

Depth From
feet

0.00

Shoe Depth
feet

615.00

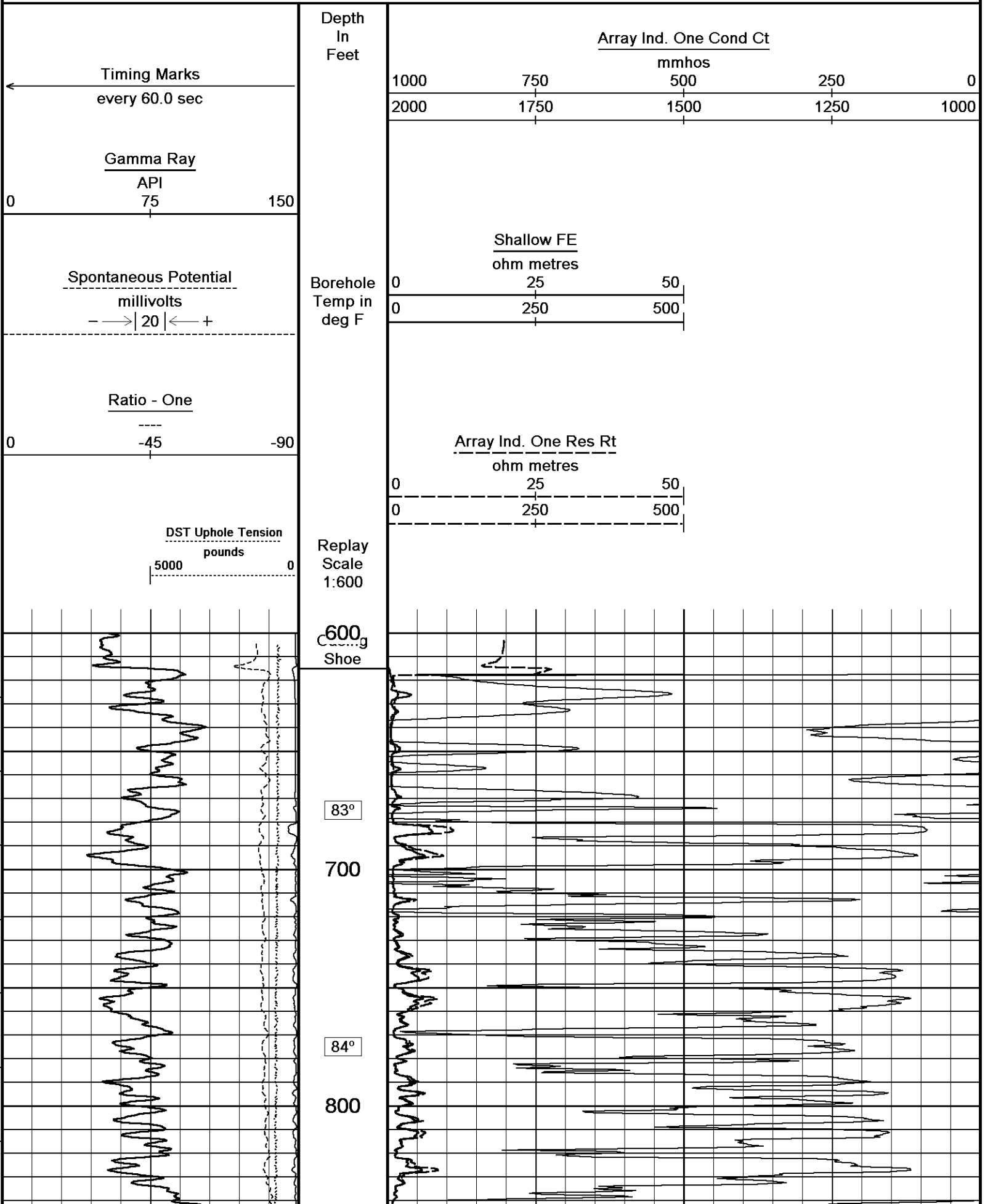
Weight
pounds/ft

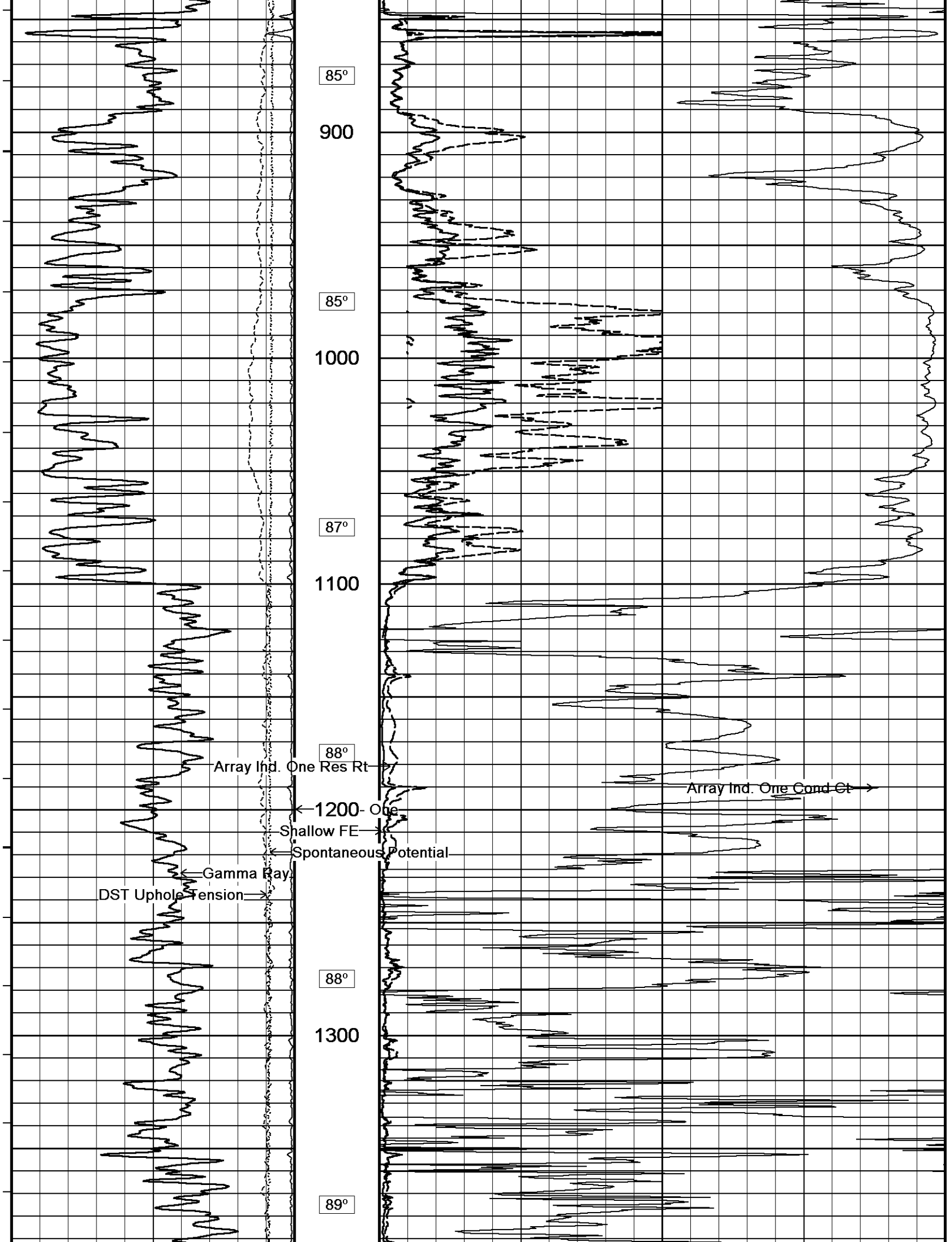
36.00

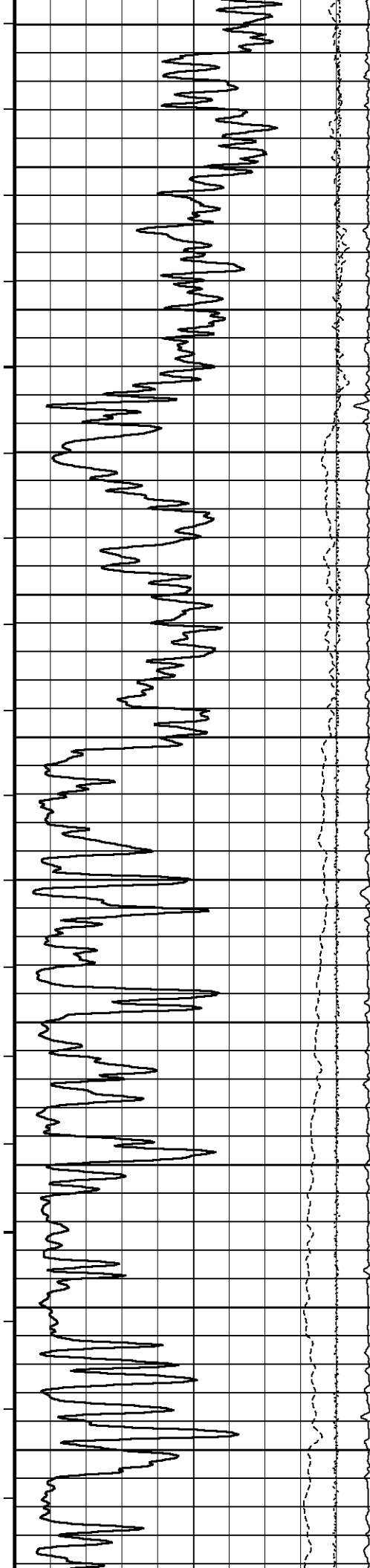
REMARKS

Tools Ran: MCG, MML, MDN, MPD, SKJ, MFE, MSS, MAI.
Hardware Used: MDN Dual Eccentralizer used. MPD 8 inch profile plate used. MFE and MAI 0.5 inch standoffs used.
2.71 g/cc Limestone Density Matrix used to calculate porosity.
Sonic porosity calculated using 47.5 usec/ft Limestone scale.
All intervals logged and scaled per customer's request.
Annular volume with 7 inch production casing calculated from TD to 615ft = 1348 cu. ft.
Service order # 3534716
Rig: Tomcat Drilling Rig # 2
Engineer: R. Hoffman
Operator(s): K. Rinehart

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.







1400

90°

1500

90°

1600

90°

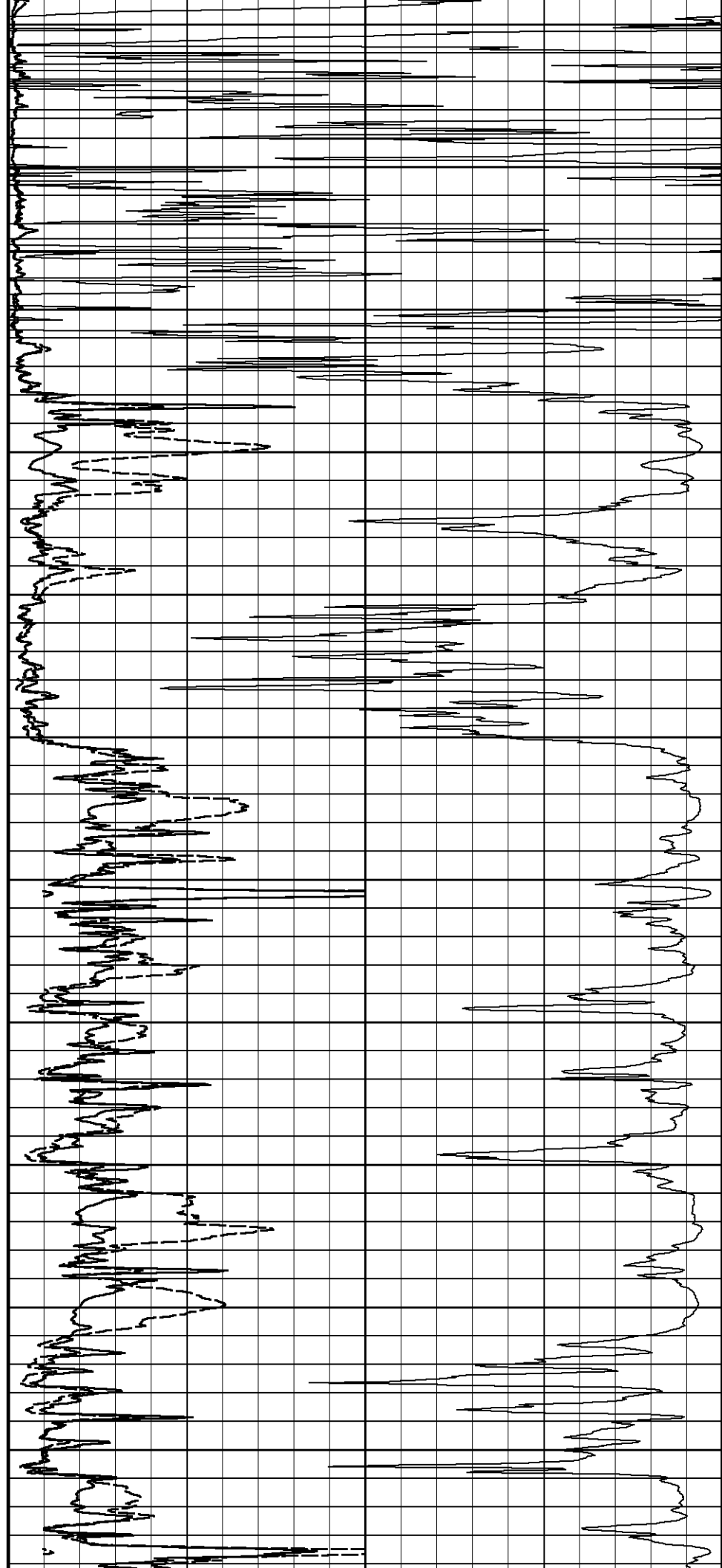
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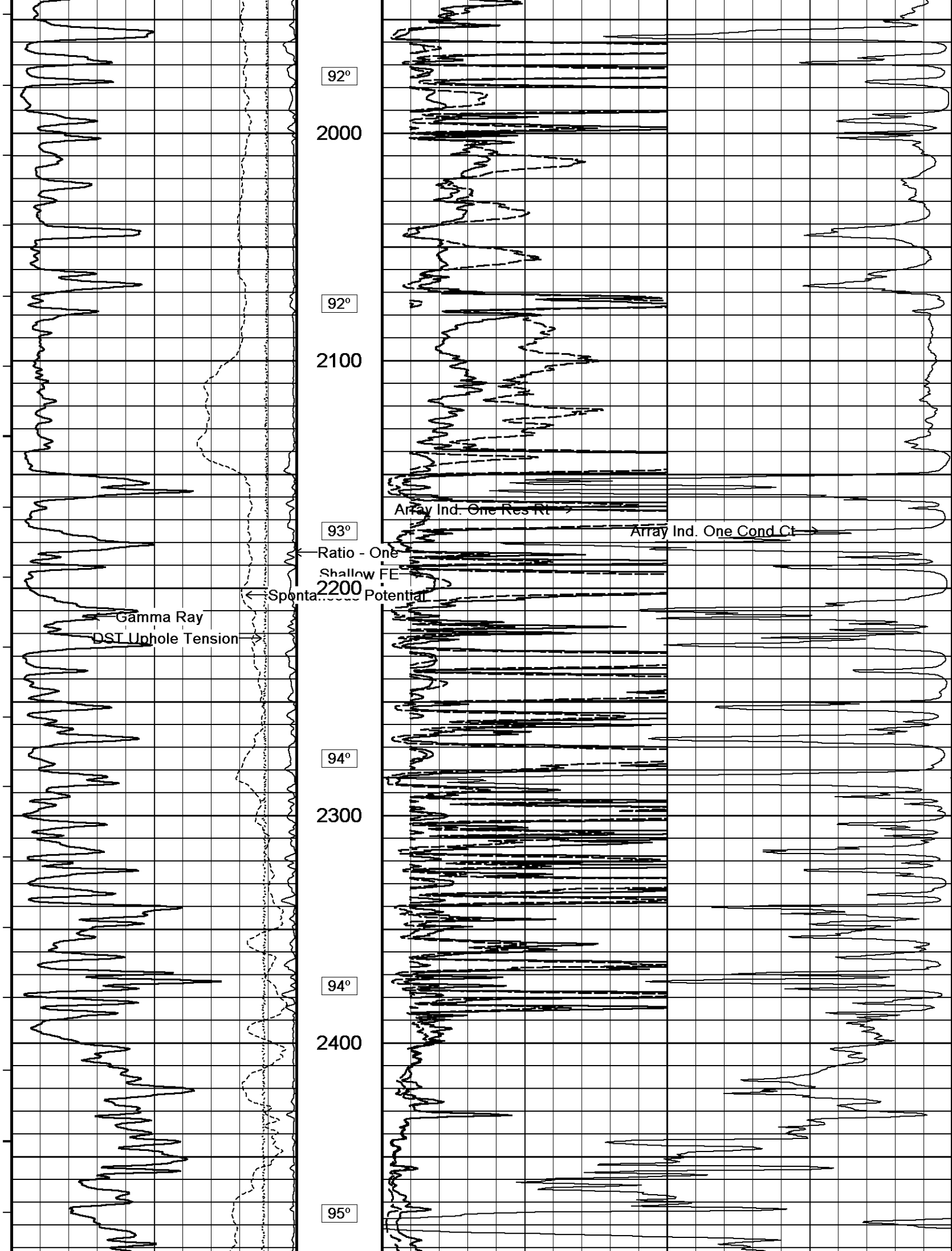
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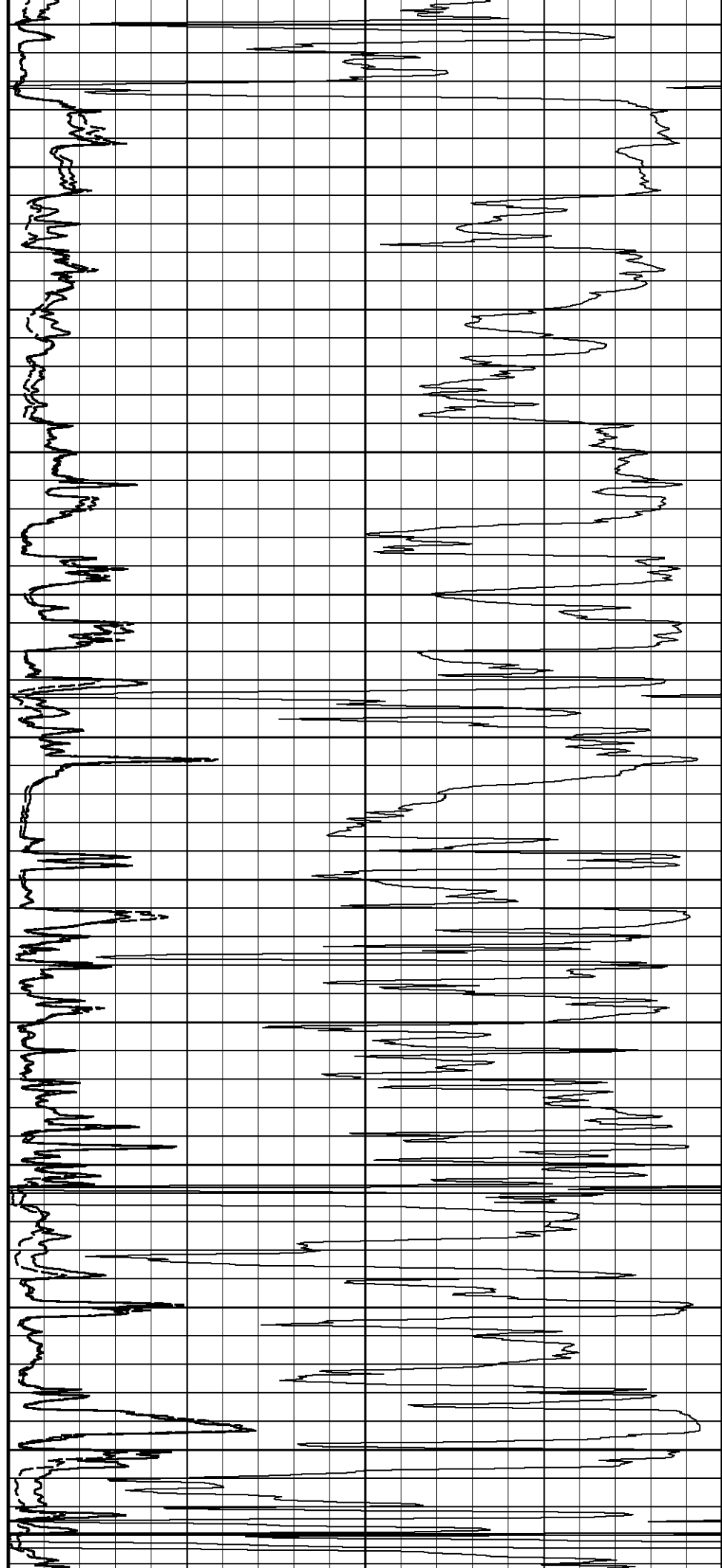
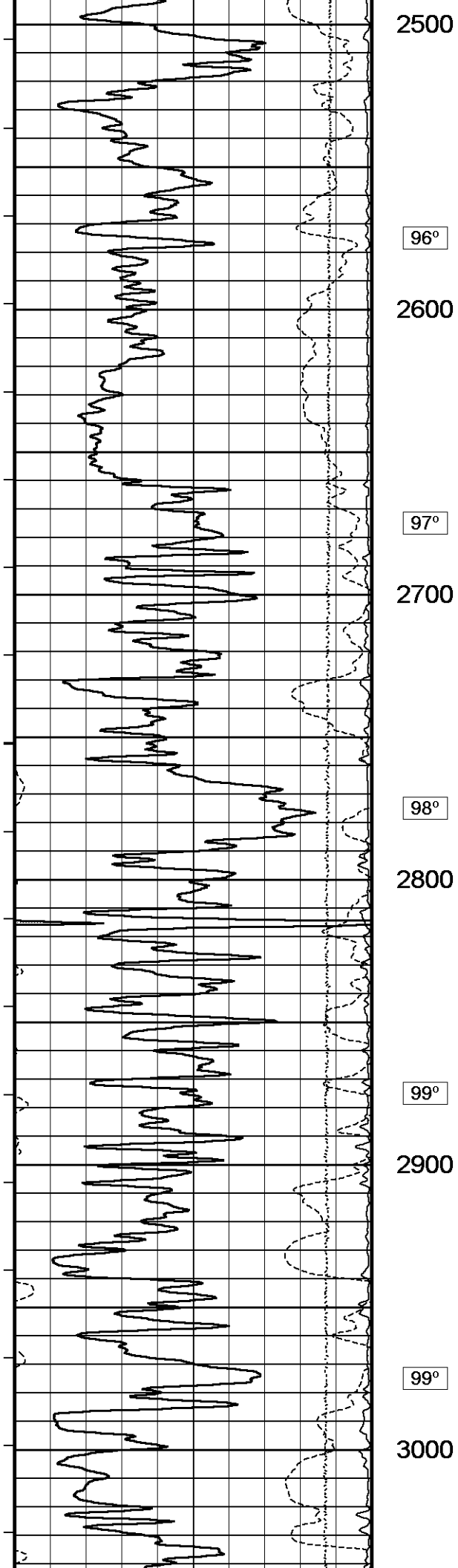
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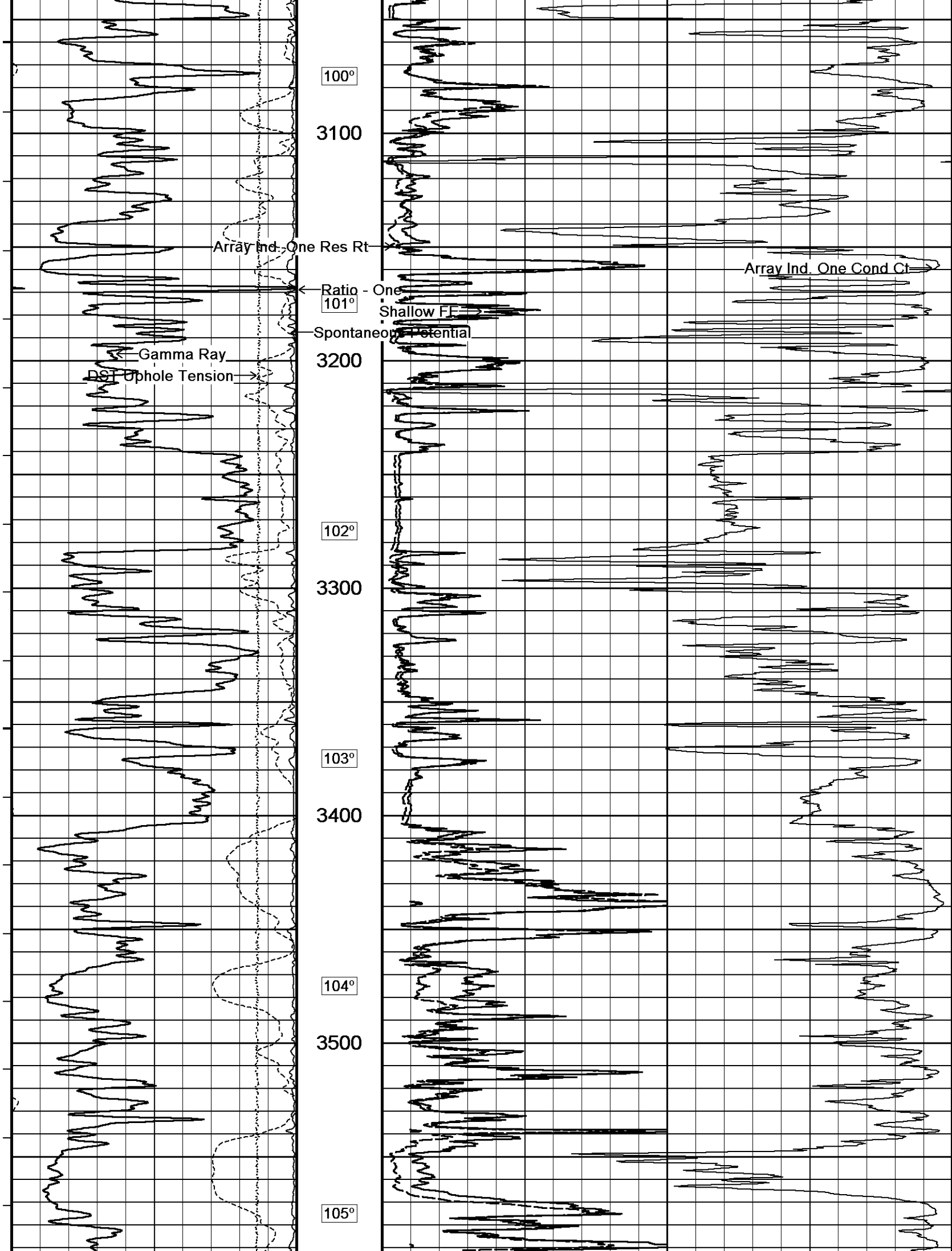
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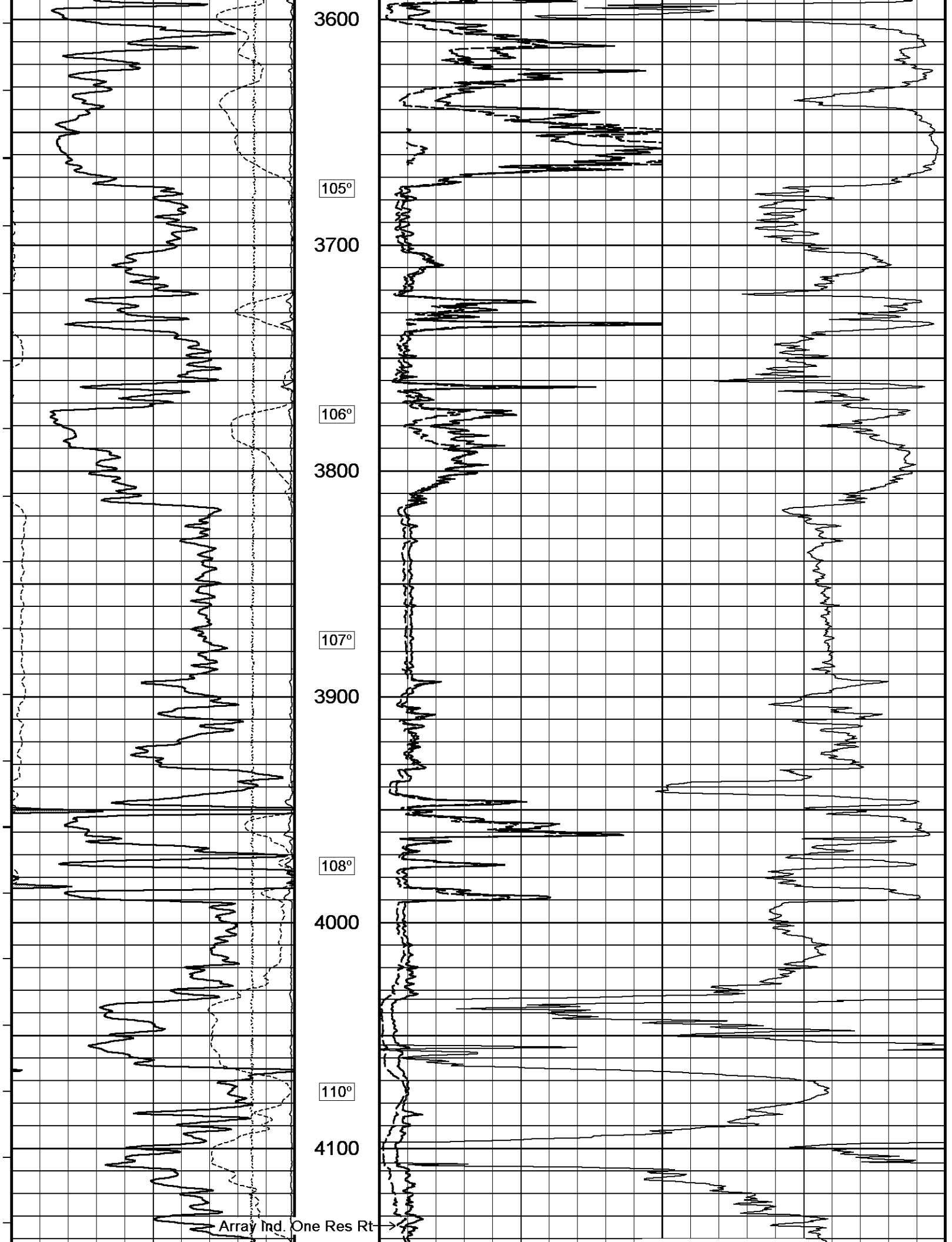
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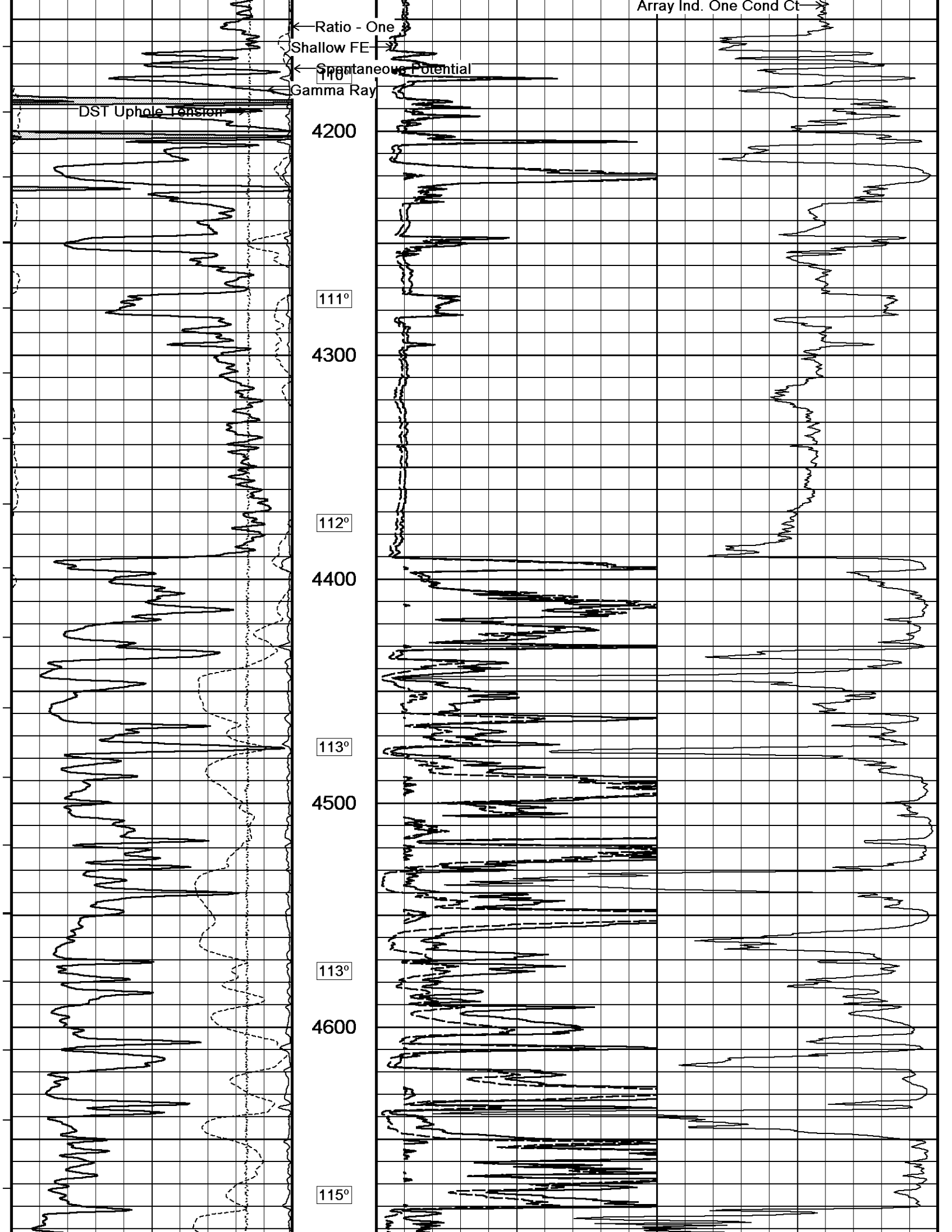


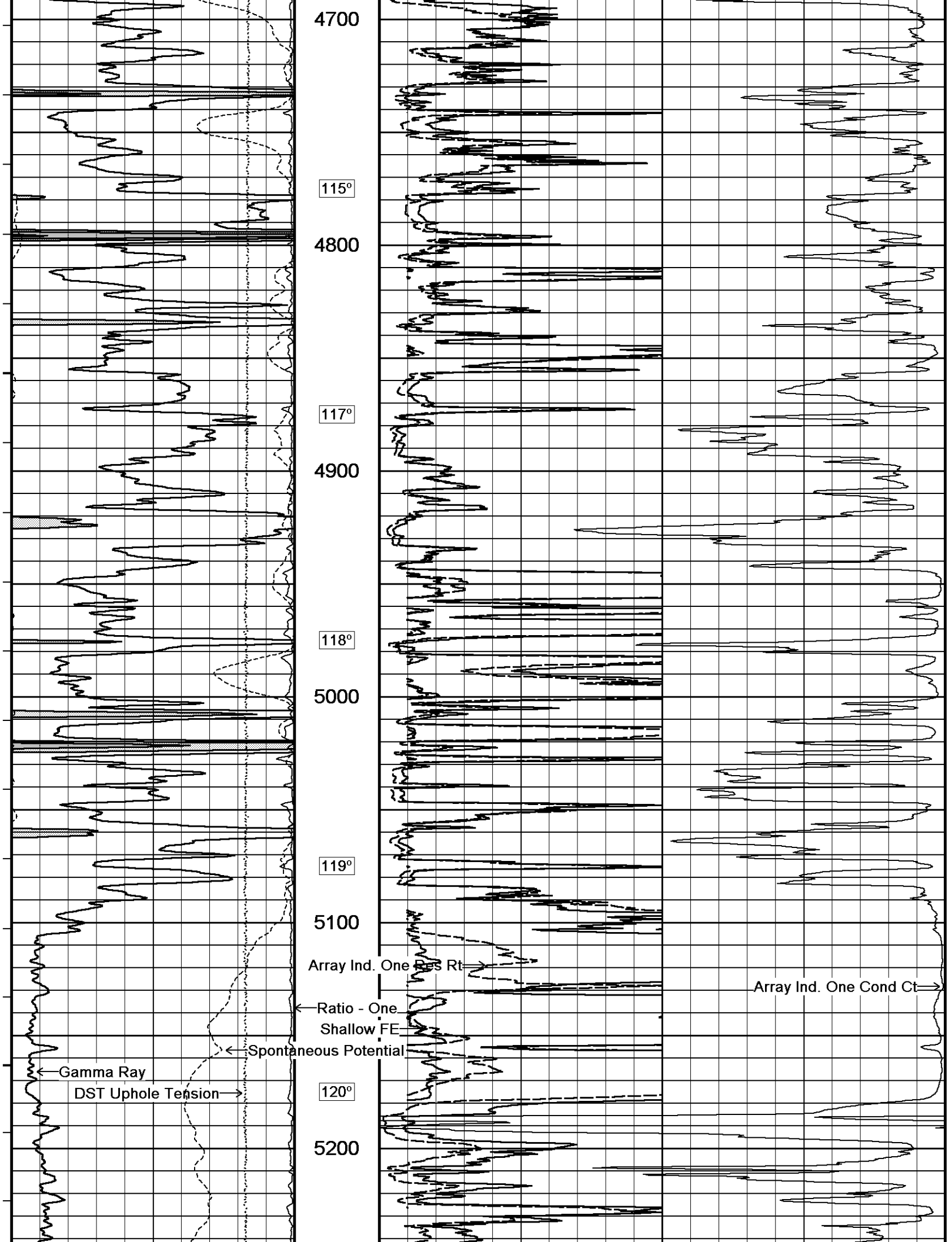


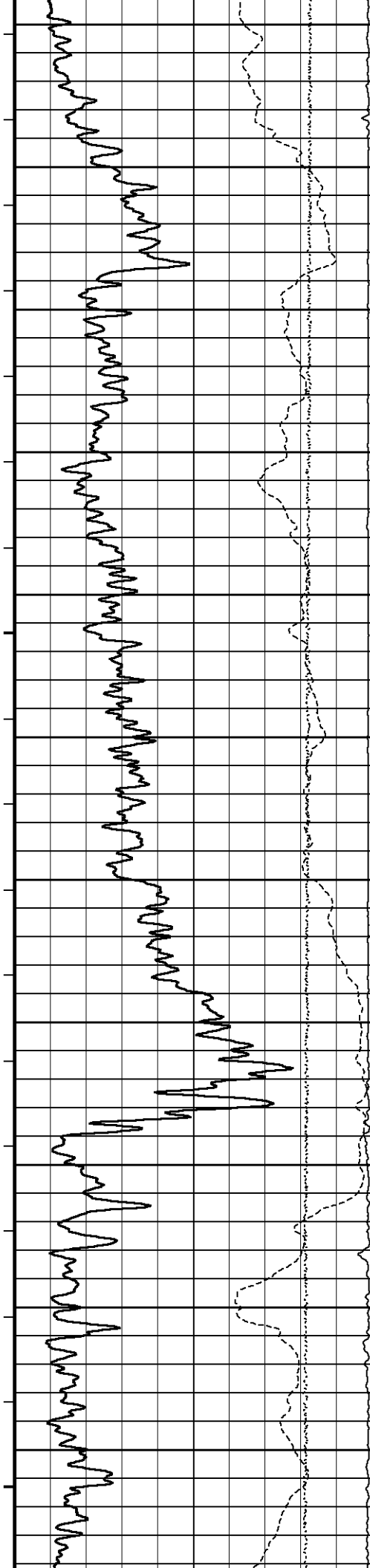












121°

5300

121°

5400

121°

5500

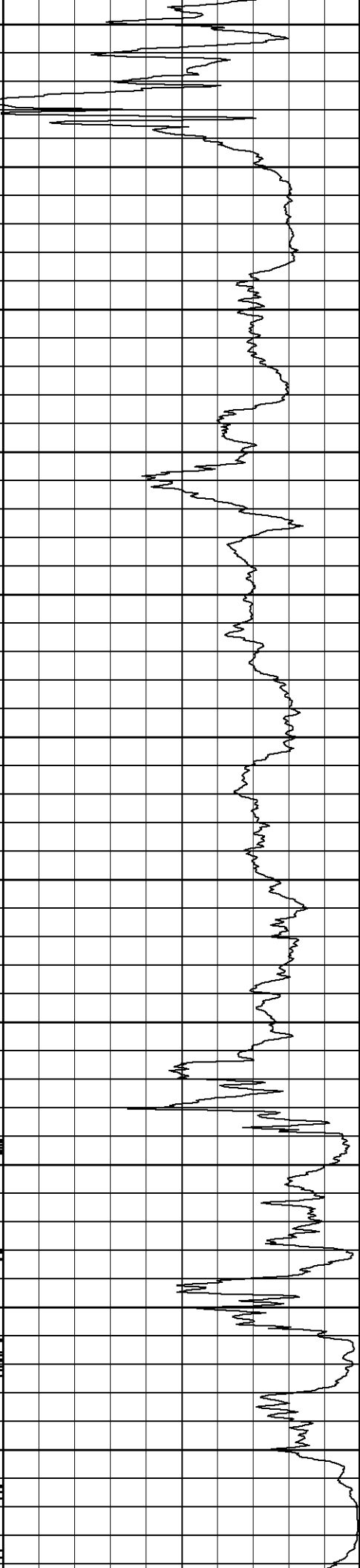
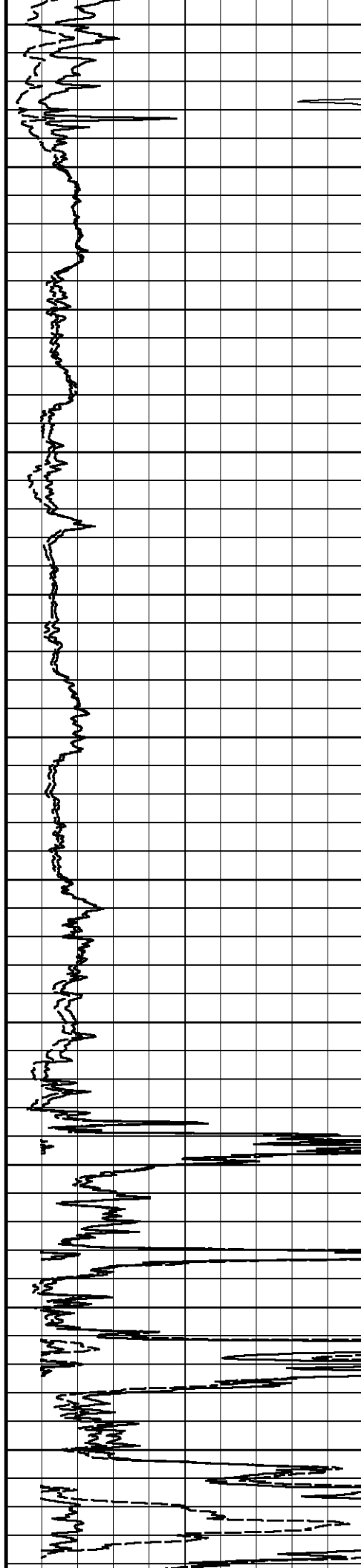
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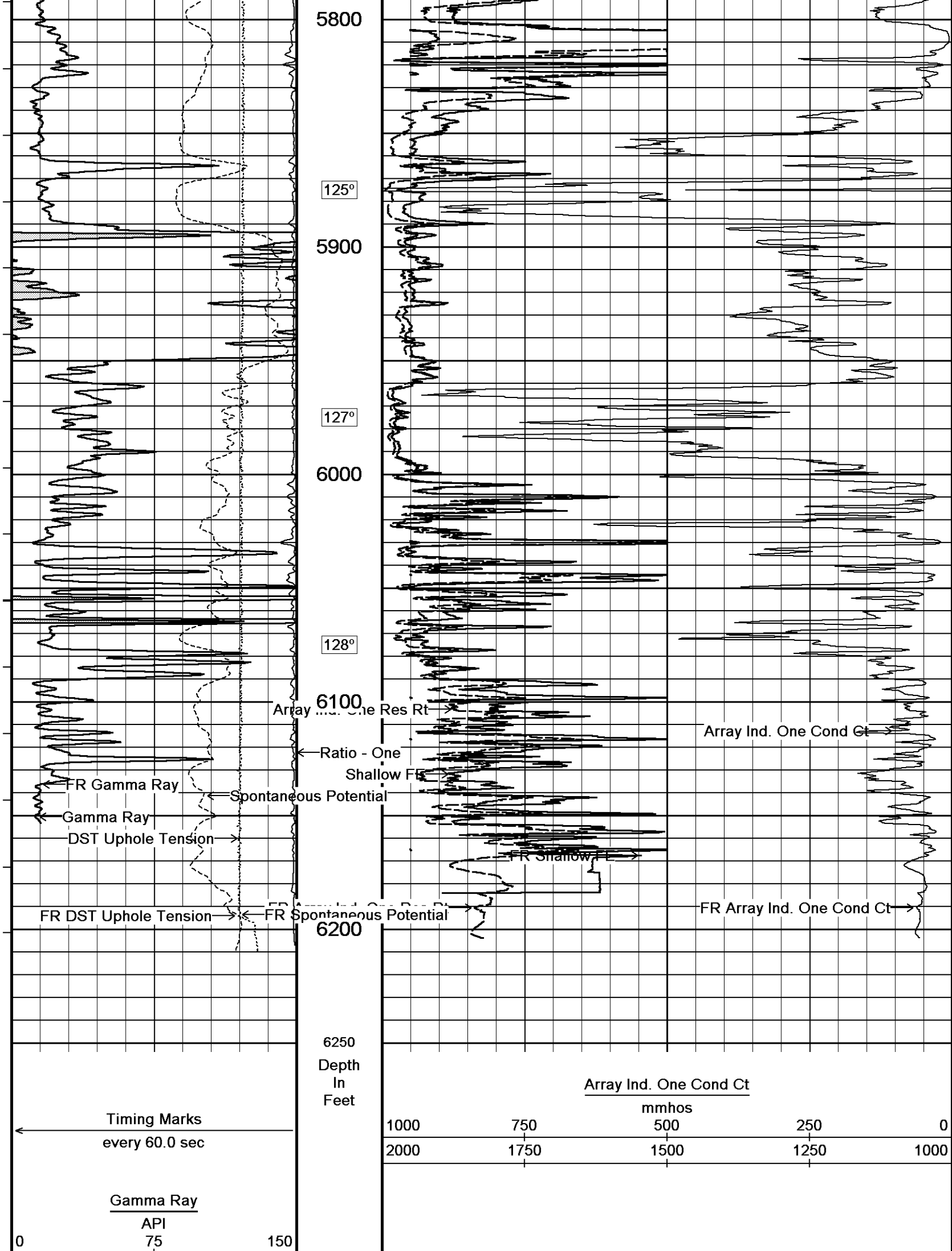
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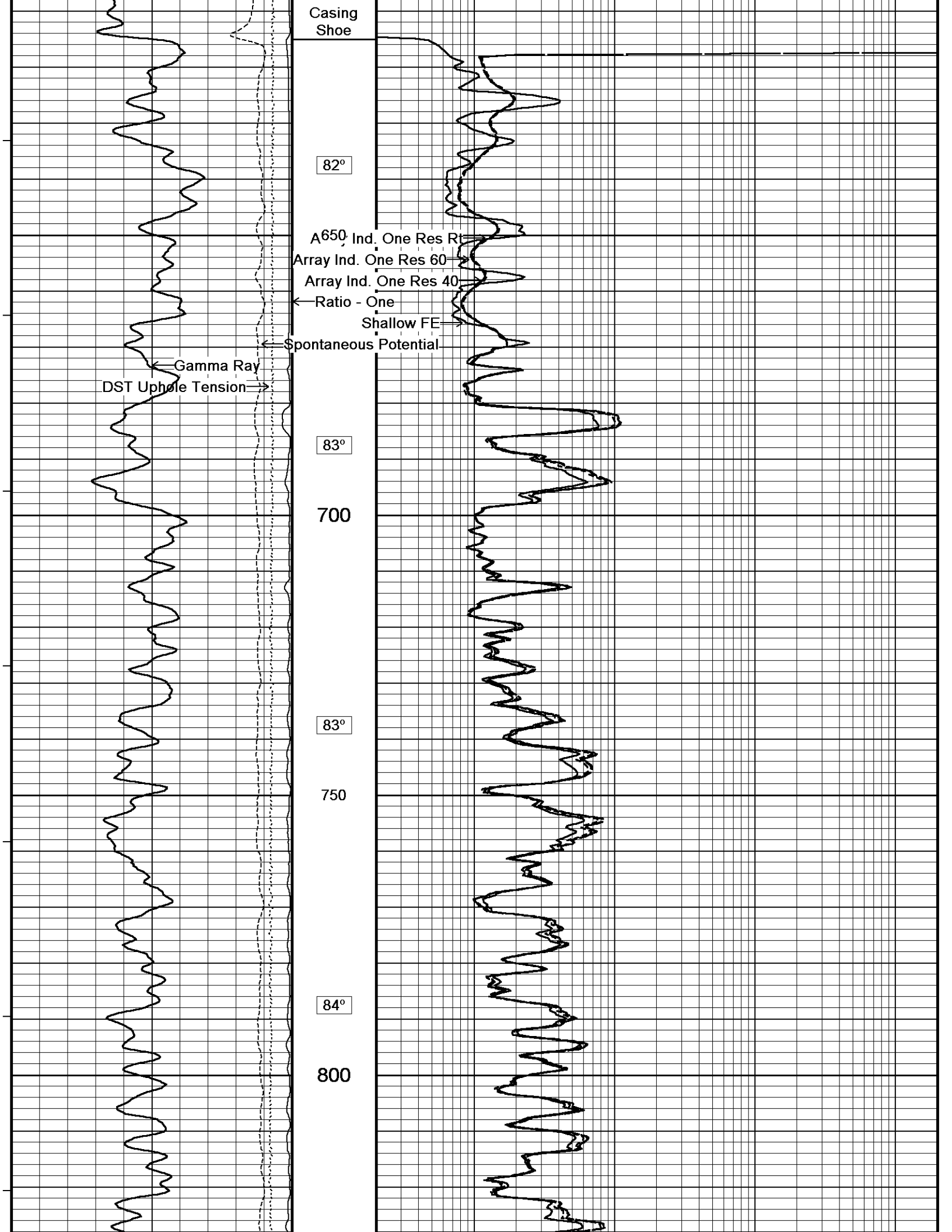
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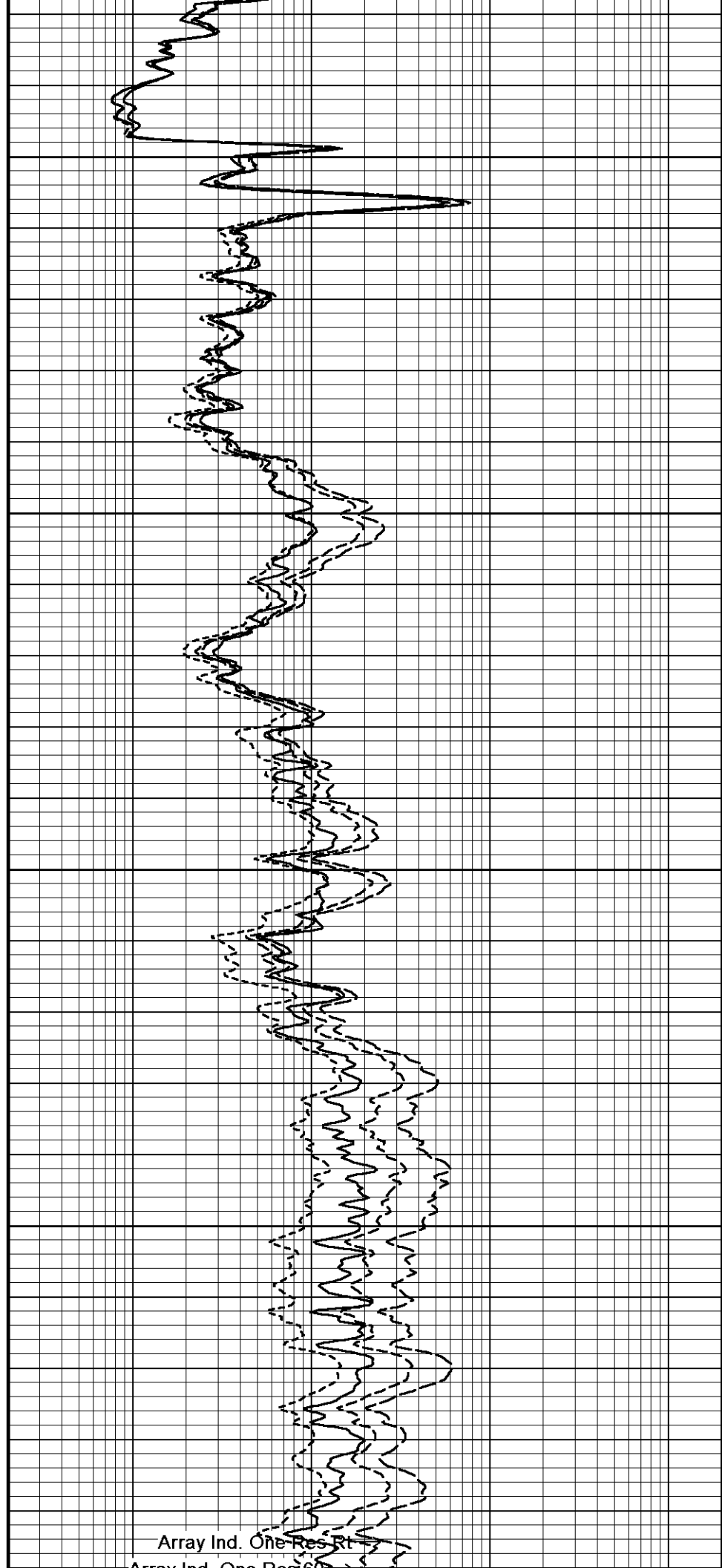
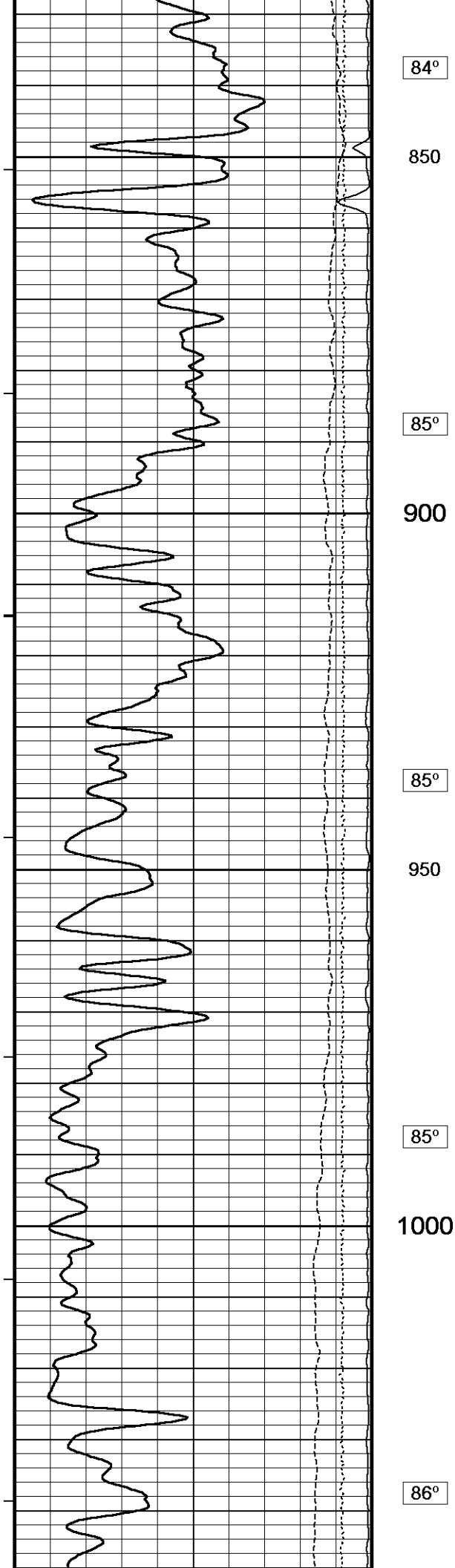
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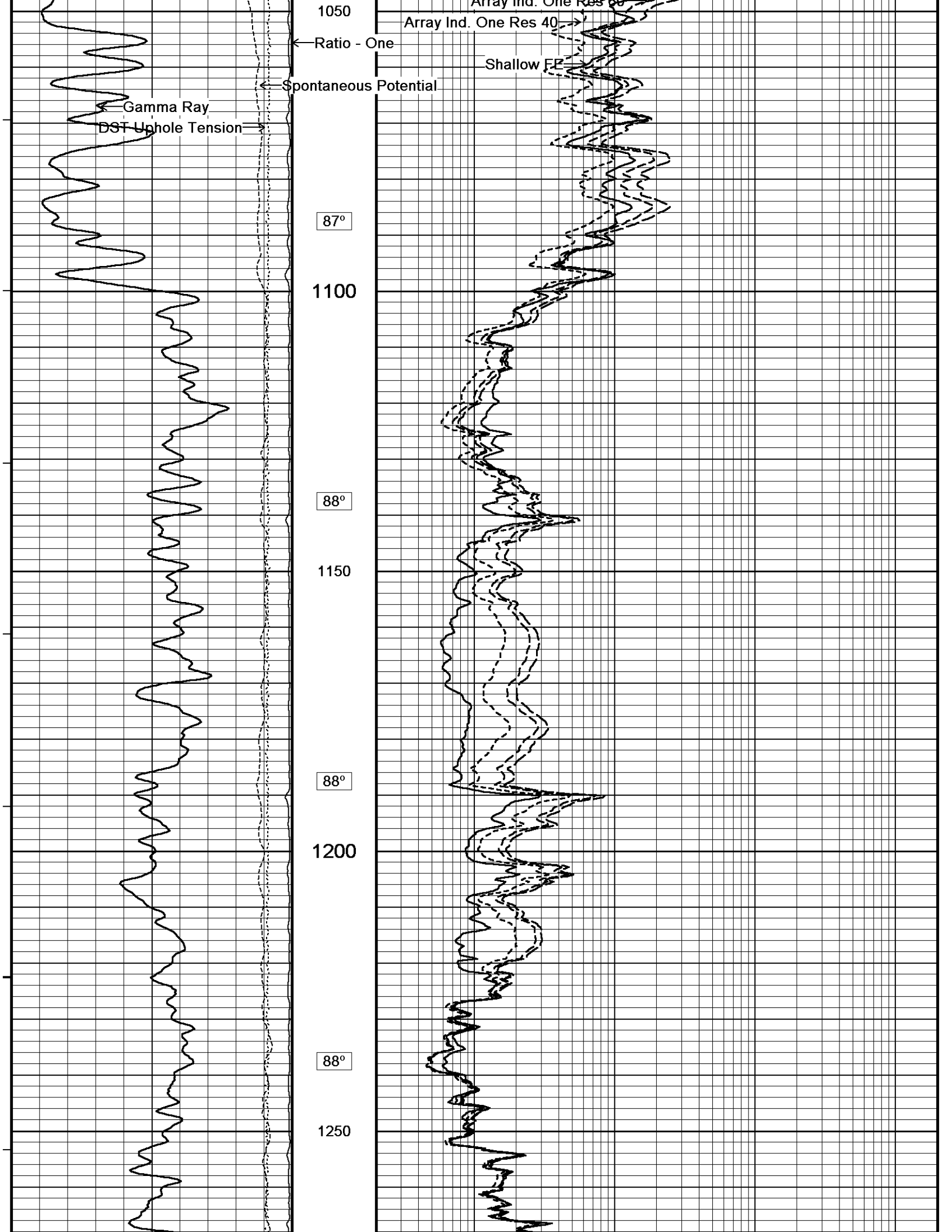
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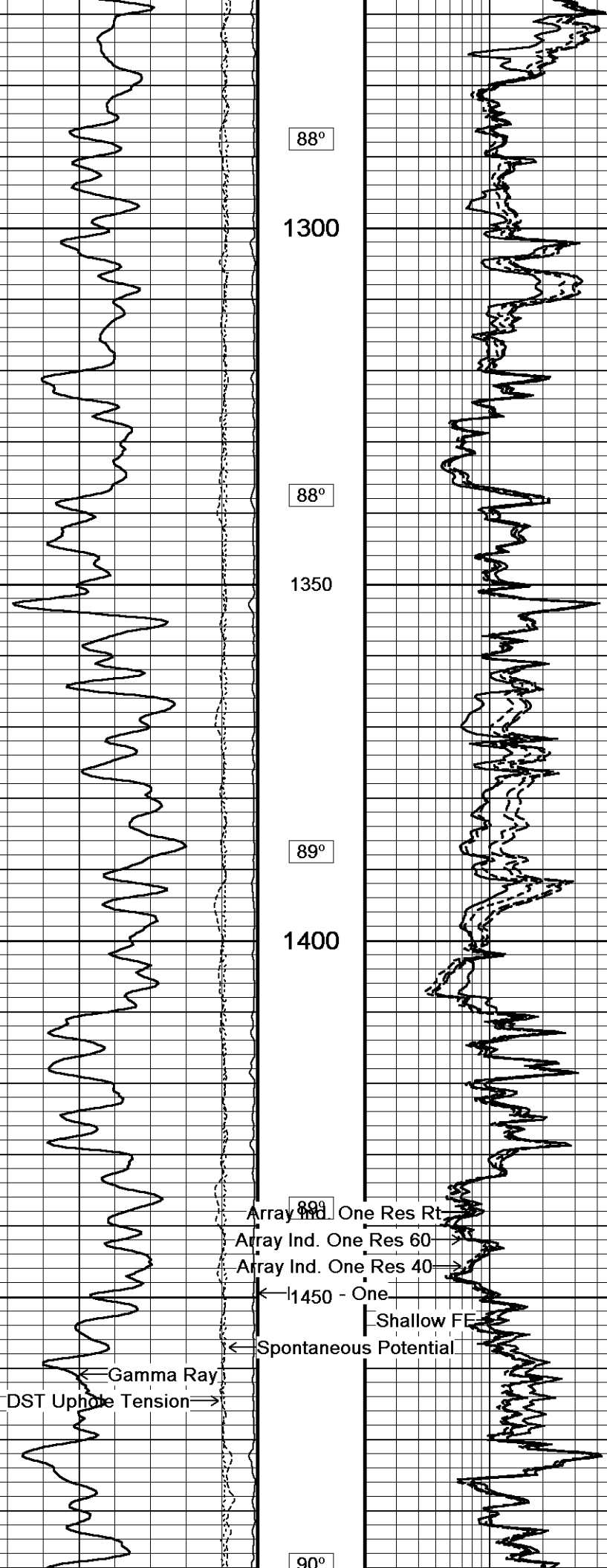


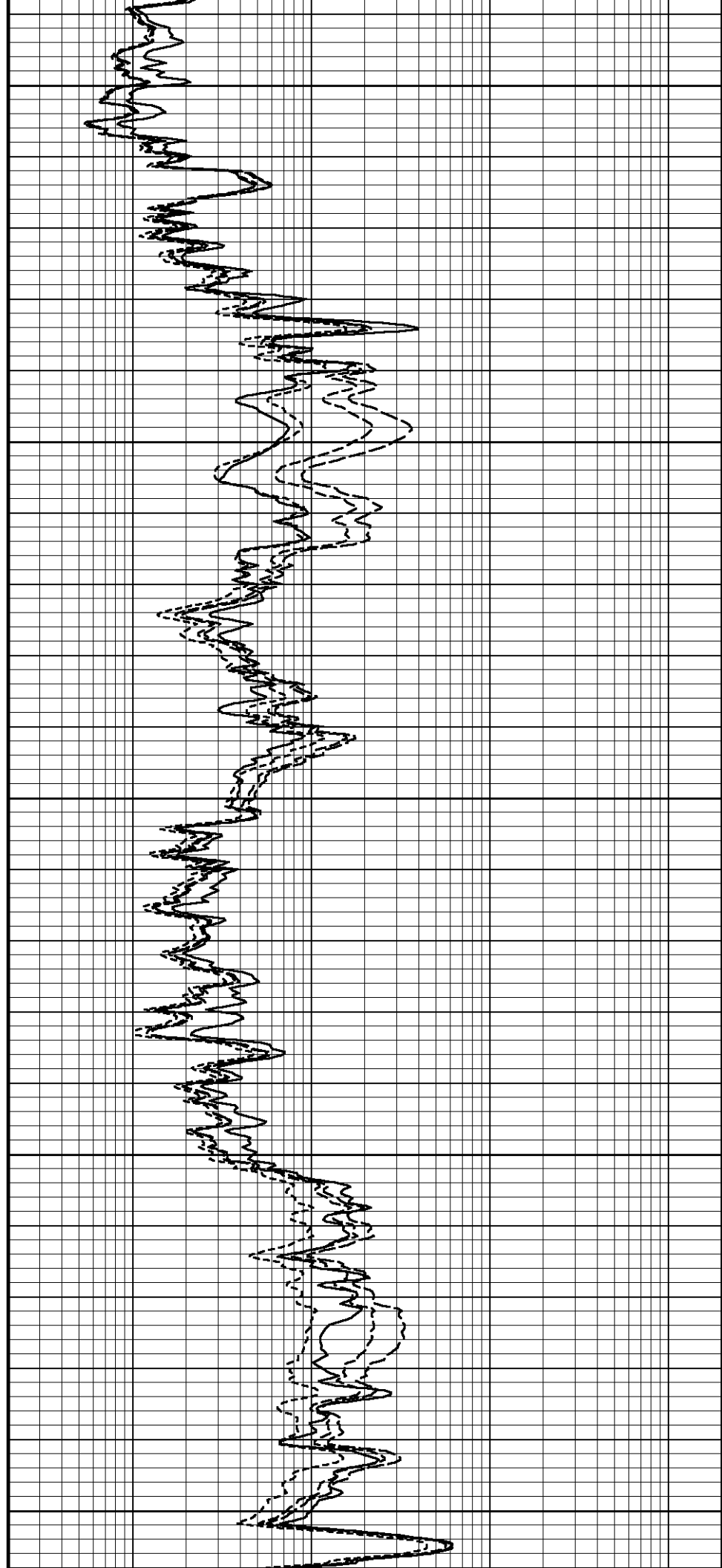
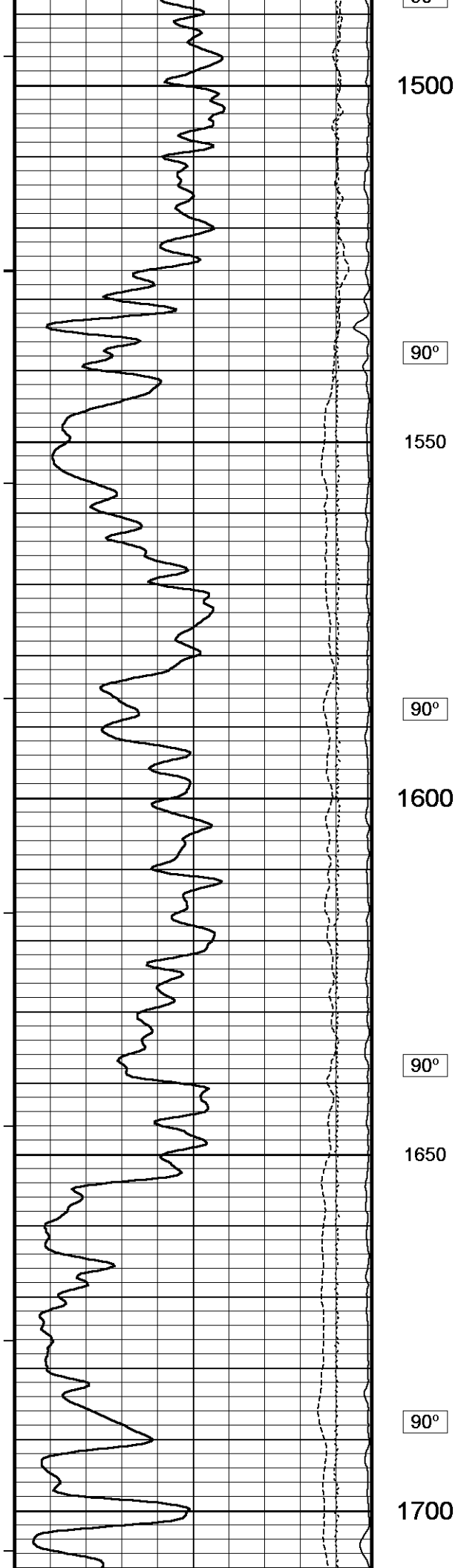














91°

1750

91°

1800

91°

1850

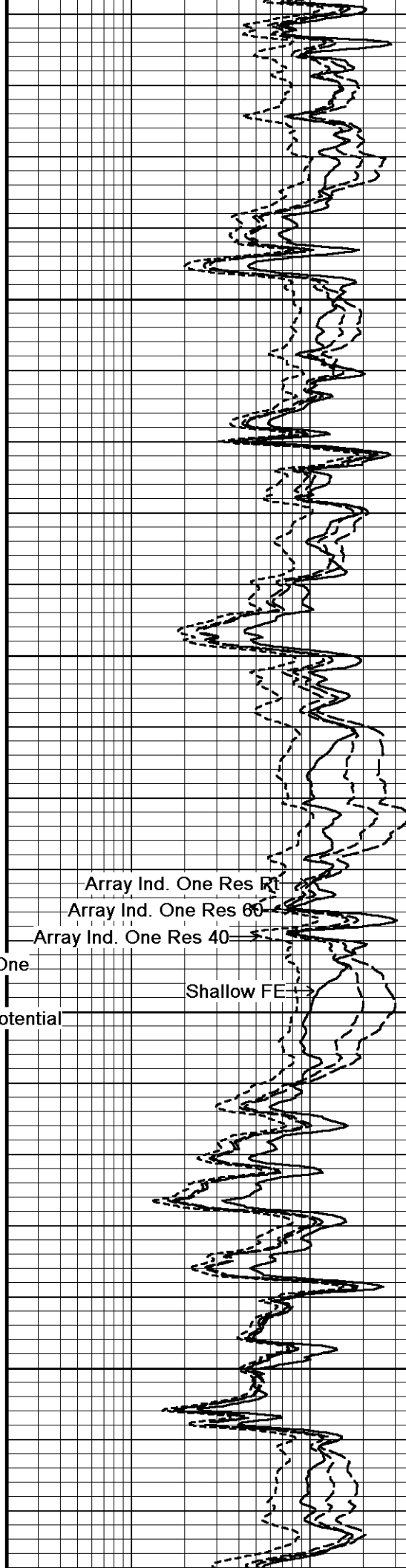
92°

1900

← Gamma Ray
DST Uphole Tension →

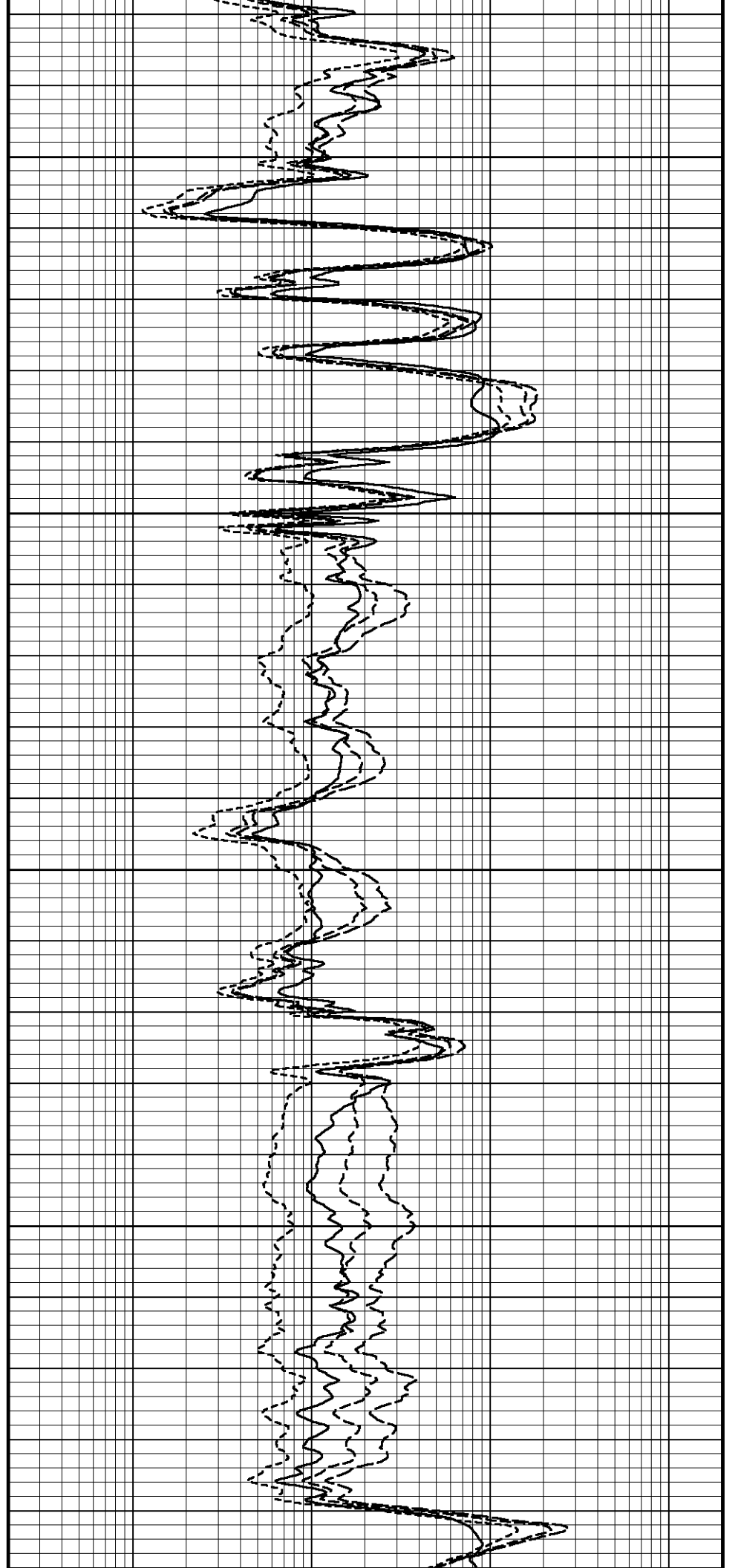
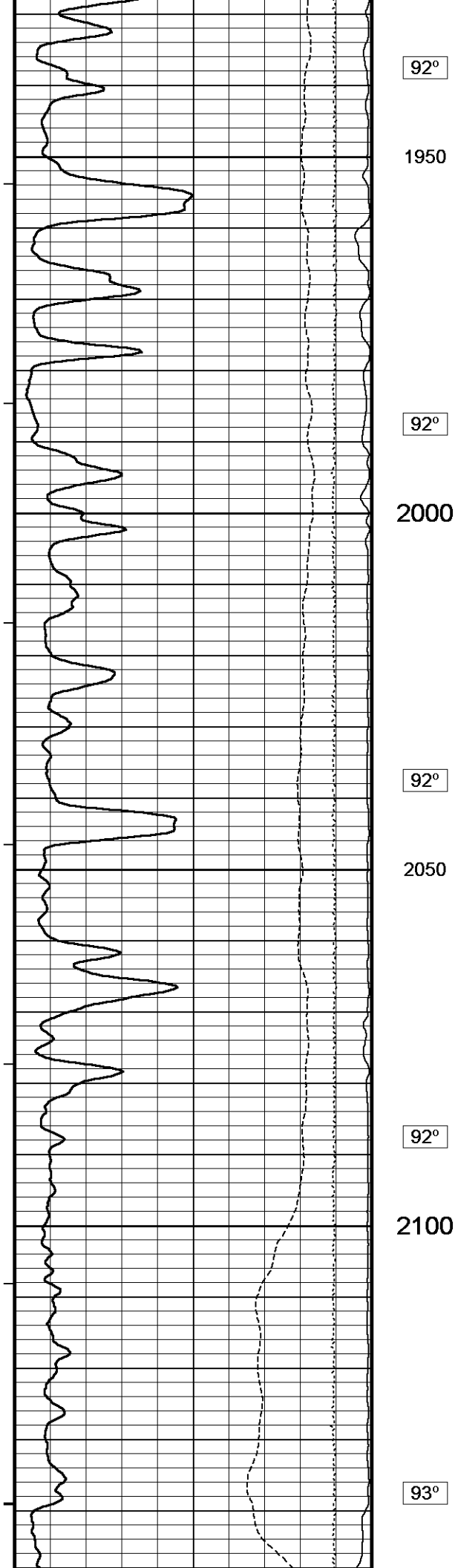
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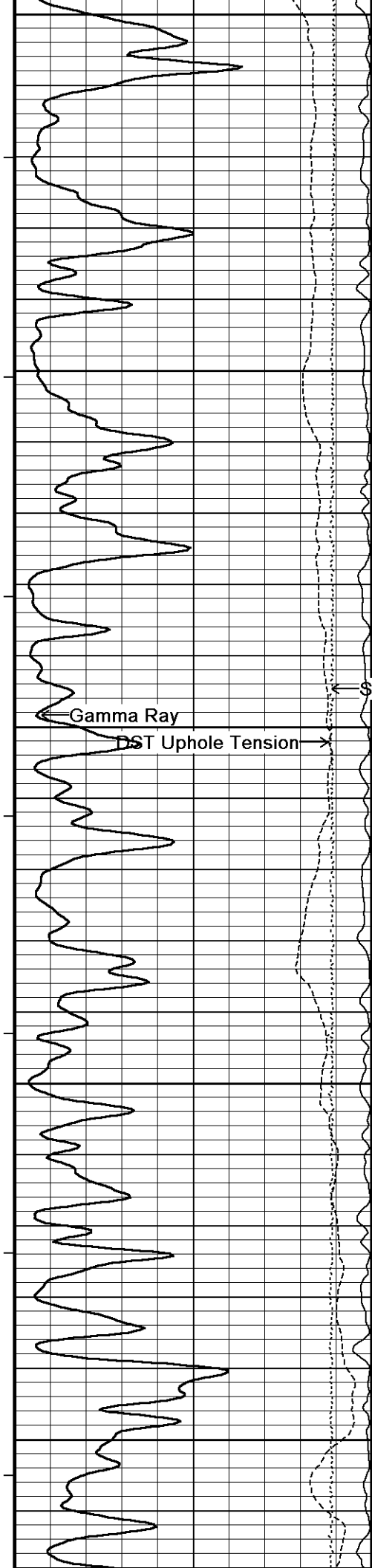
← Spontaneous Potential



Array Ind. One Res 80
Array Ind. One Res 60
Array Ind. One Res 40

Shallow FEs





2150

94°

2200

Array Ind. One Res Rt

Array Ind. One Res 60

Array Ind. One Res 40

Ratio - One

Shallow FE

Spontaneous Potential

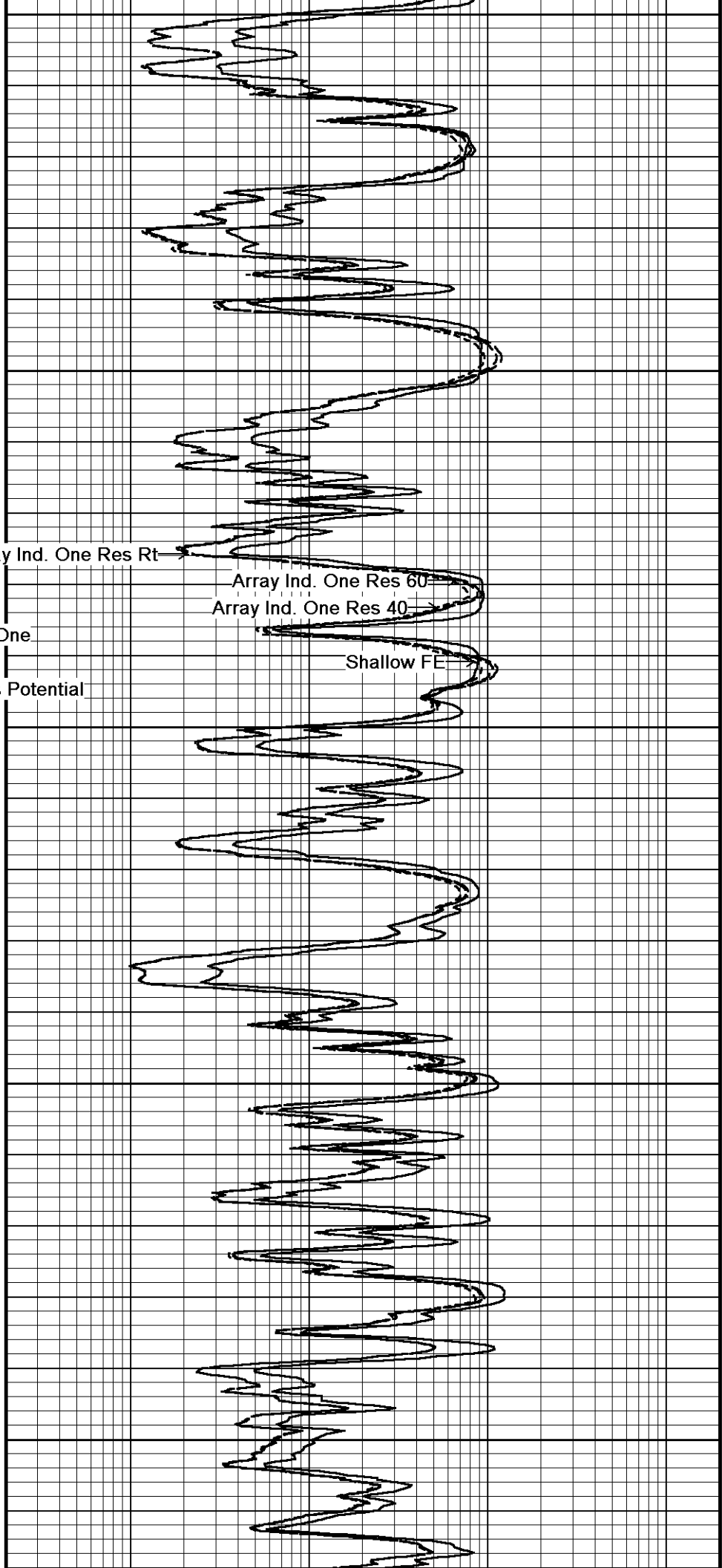
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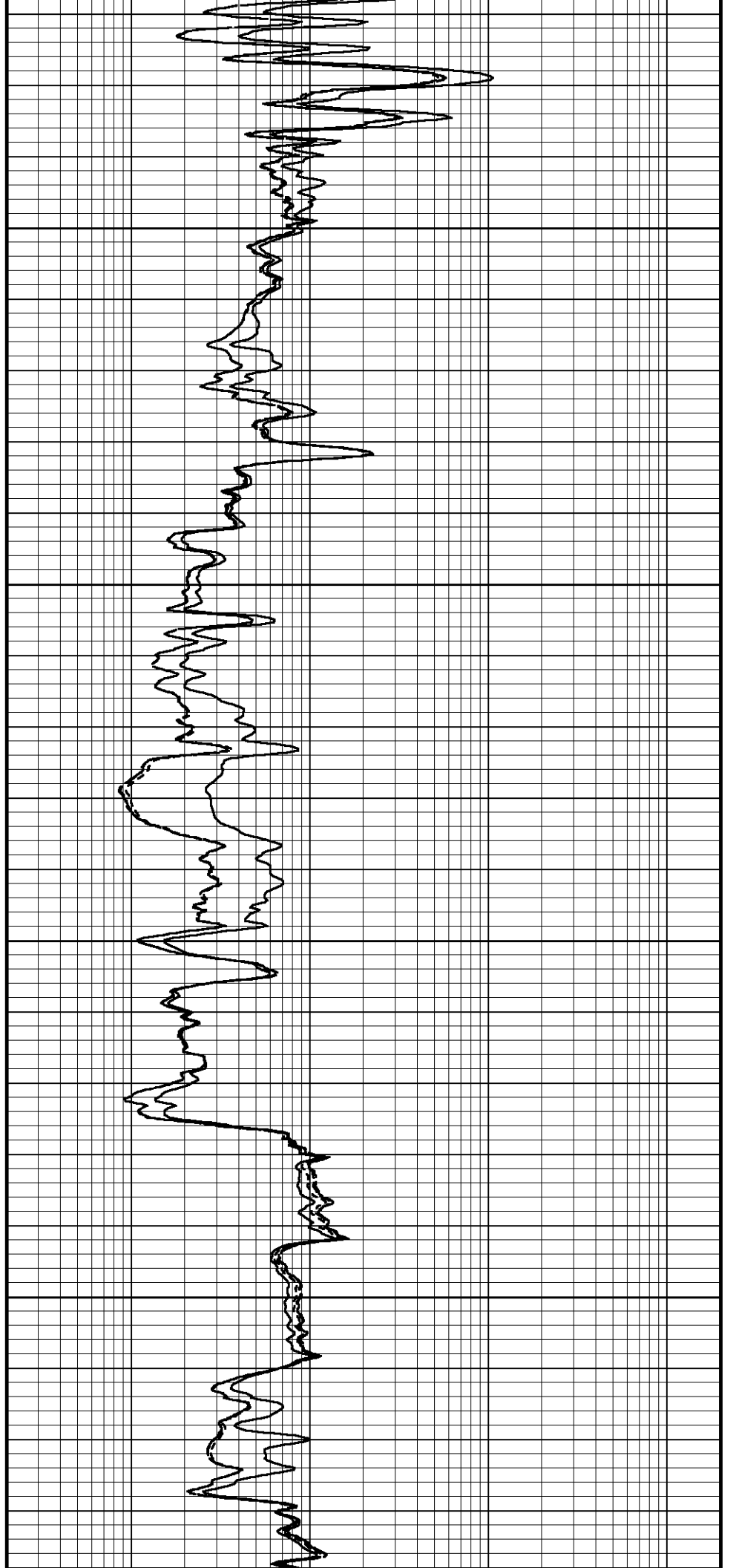
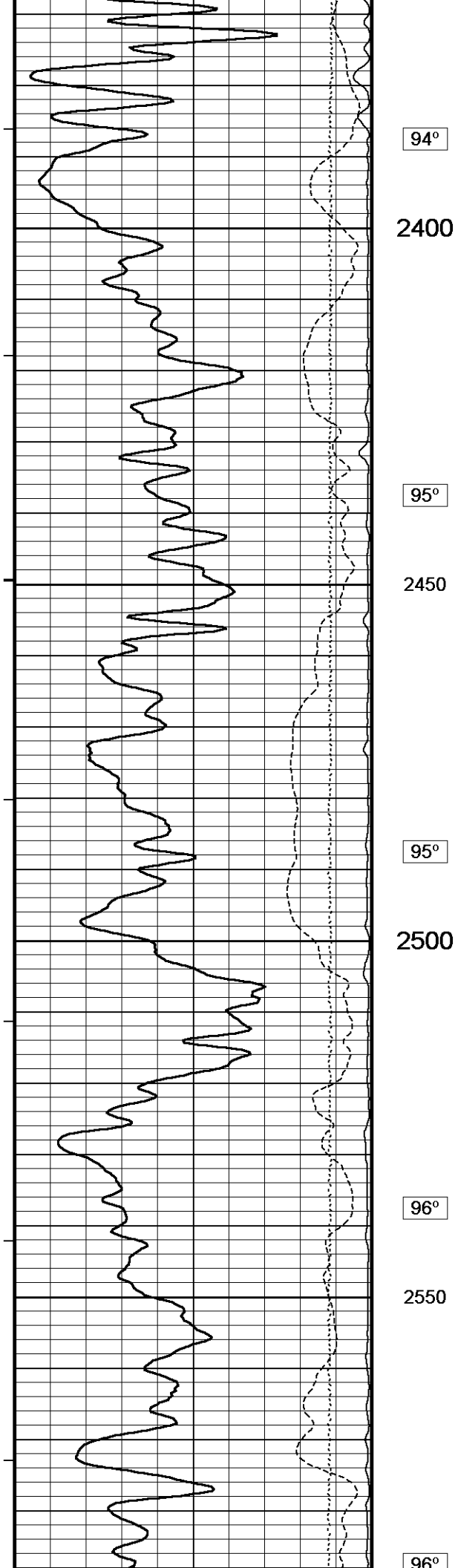
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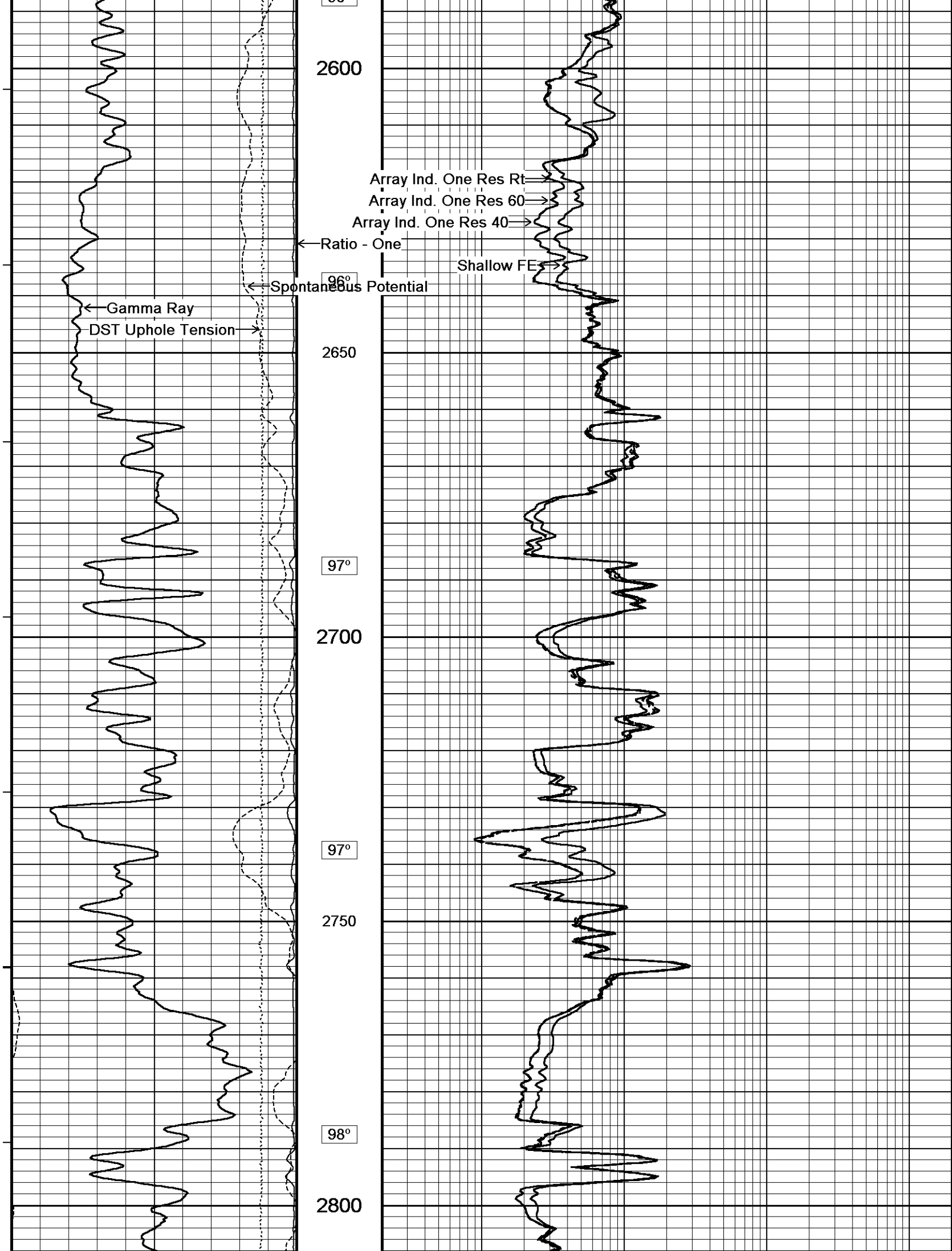
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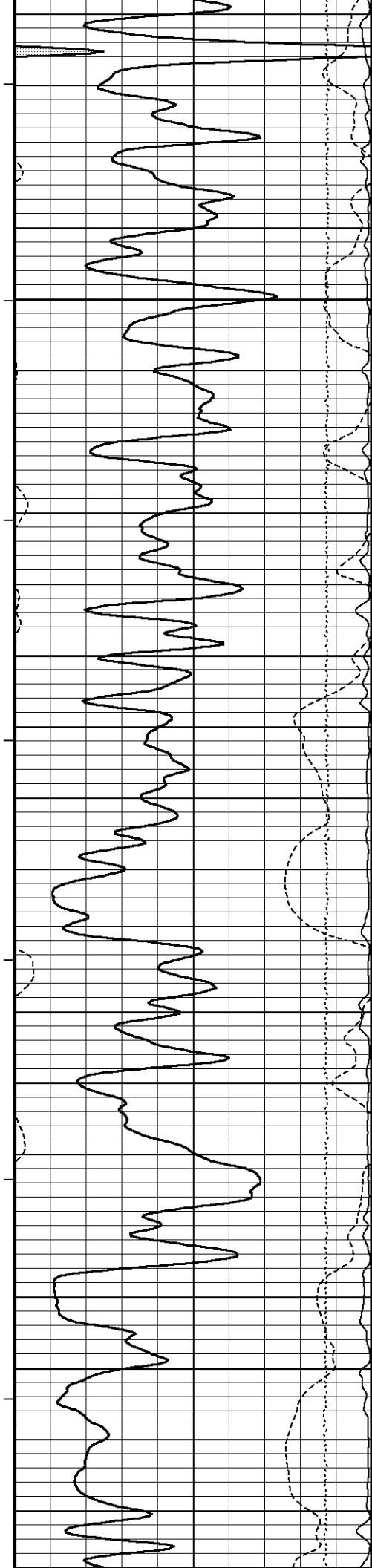
94°

2350









98°

2850

99°

2900

99°

2950

100°

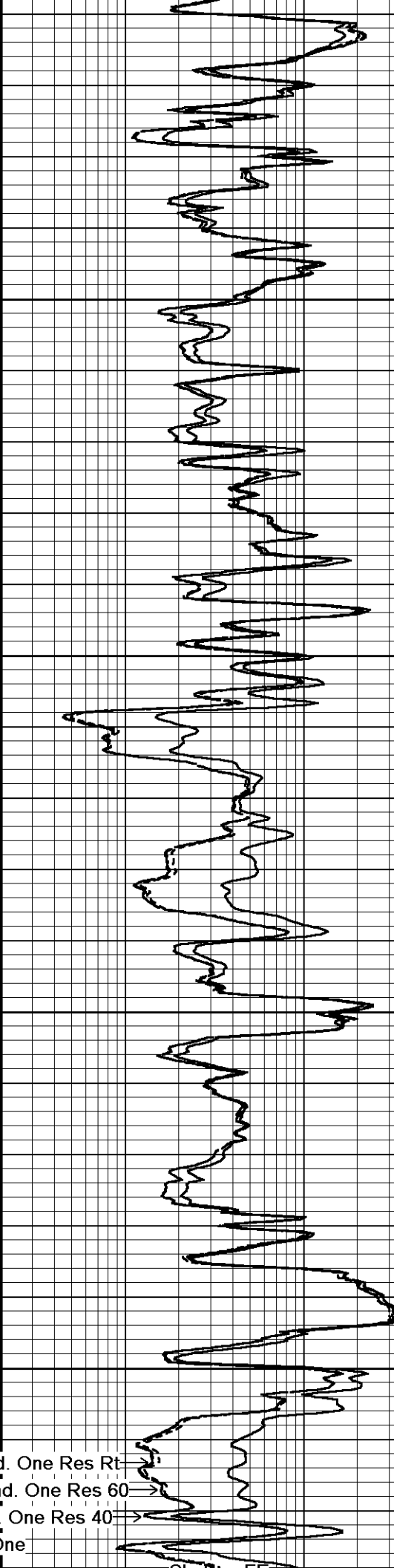
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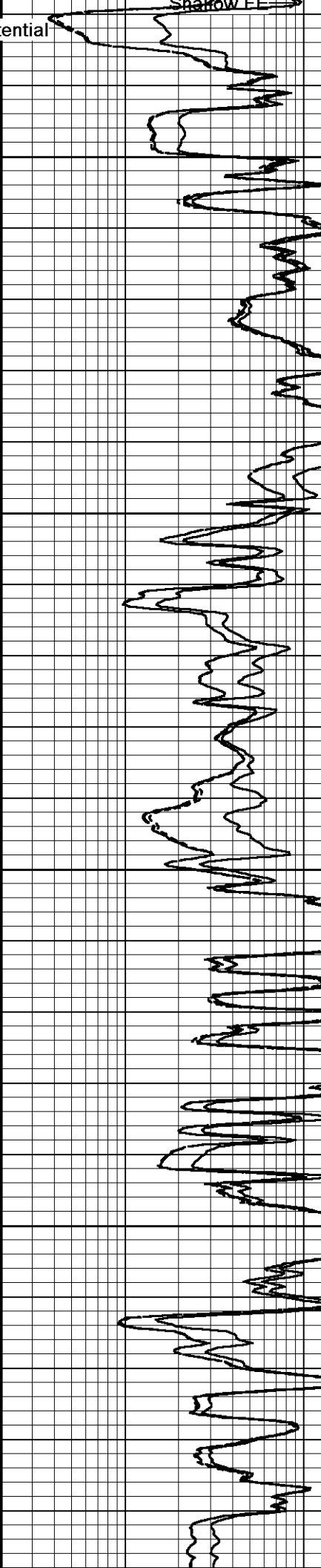
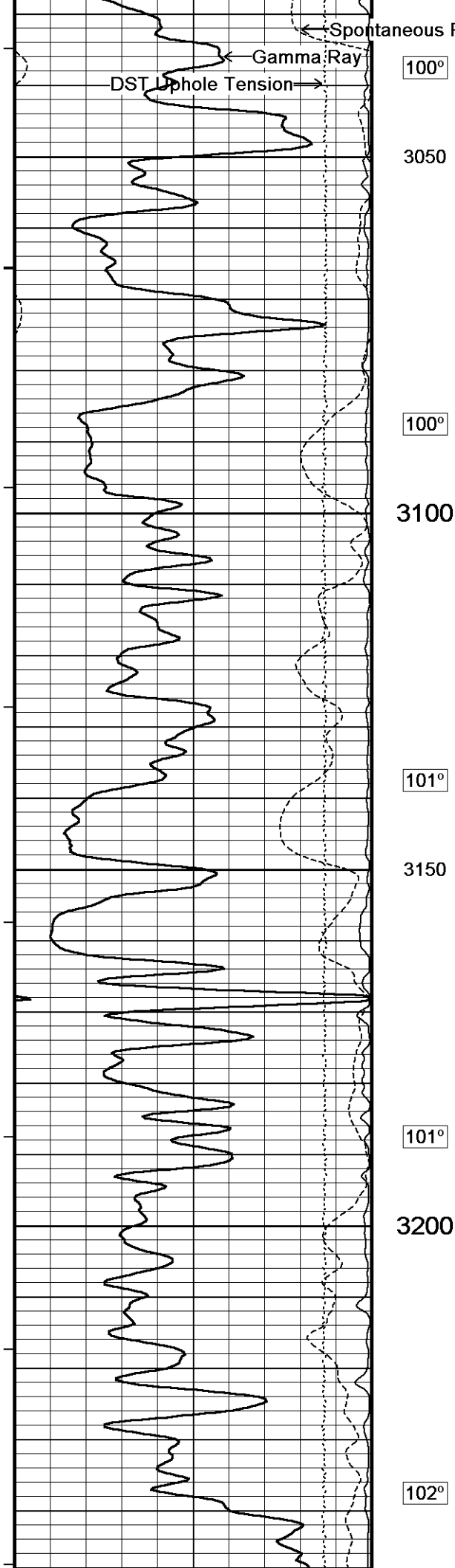
Array Ind. One Res Rt

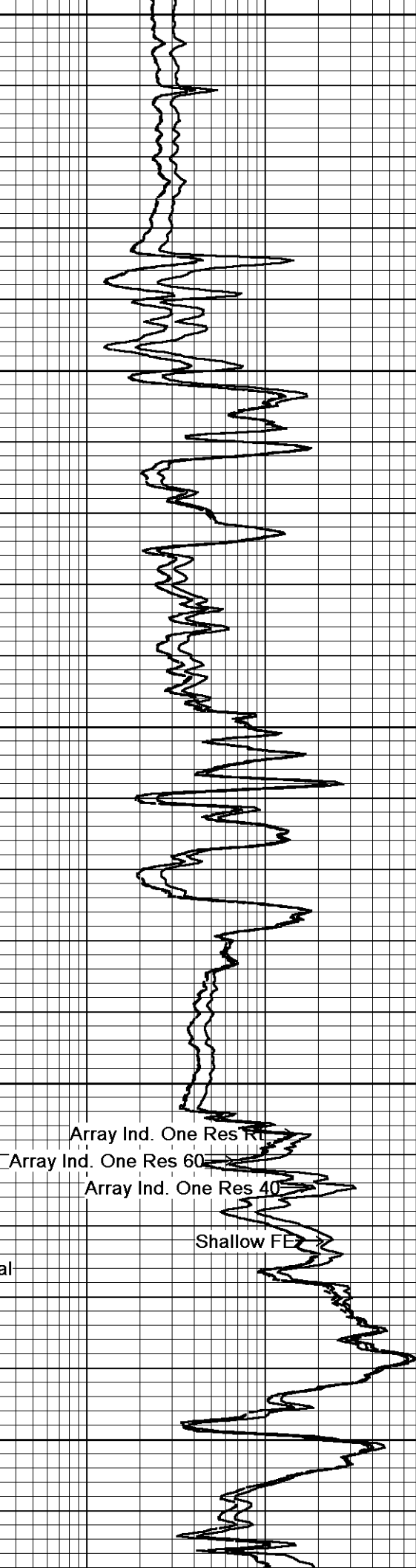
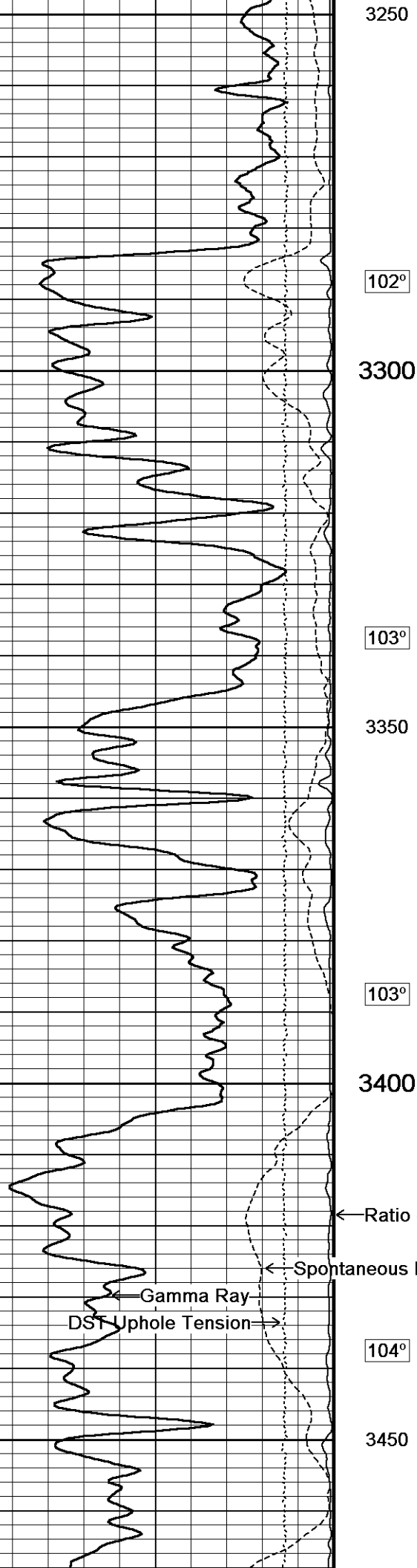
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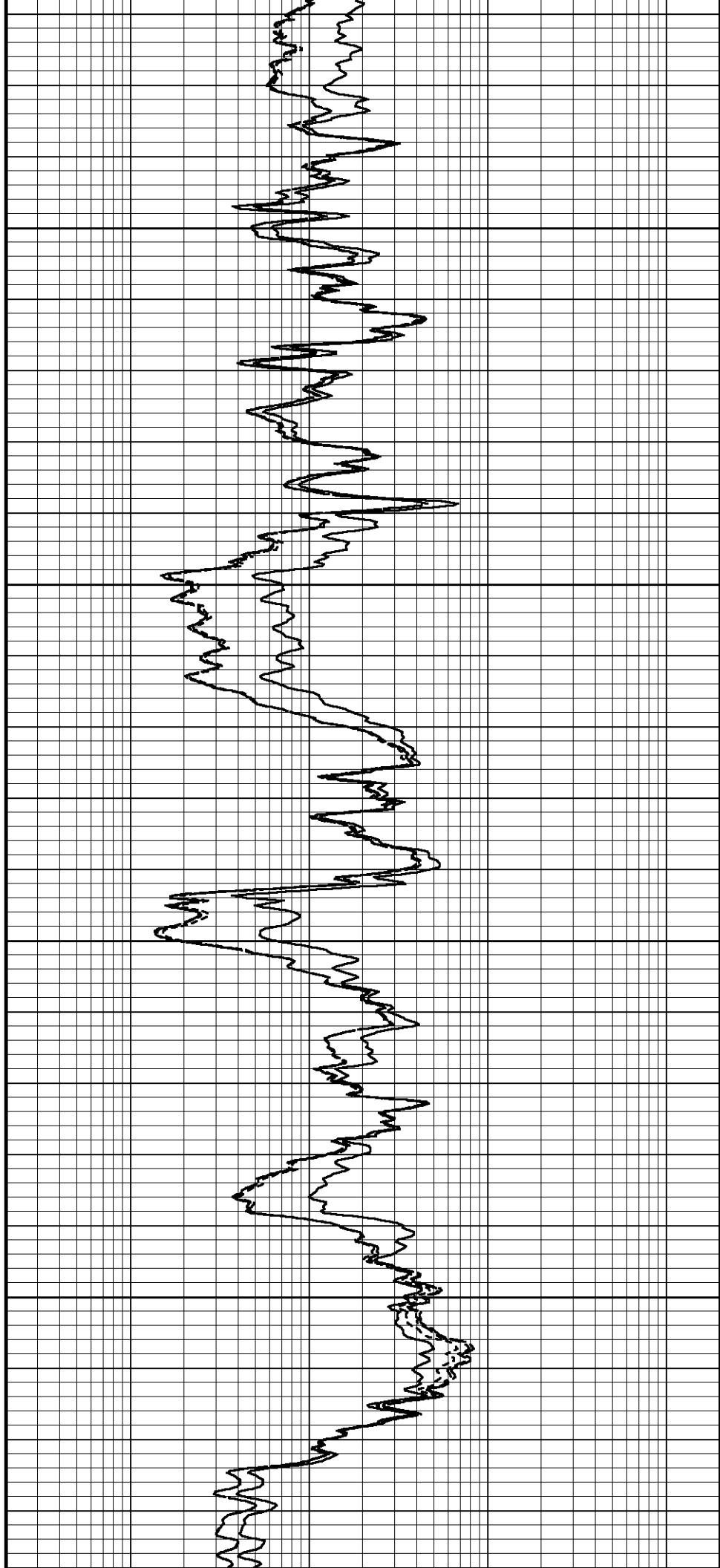
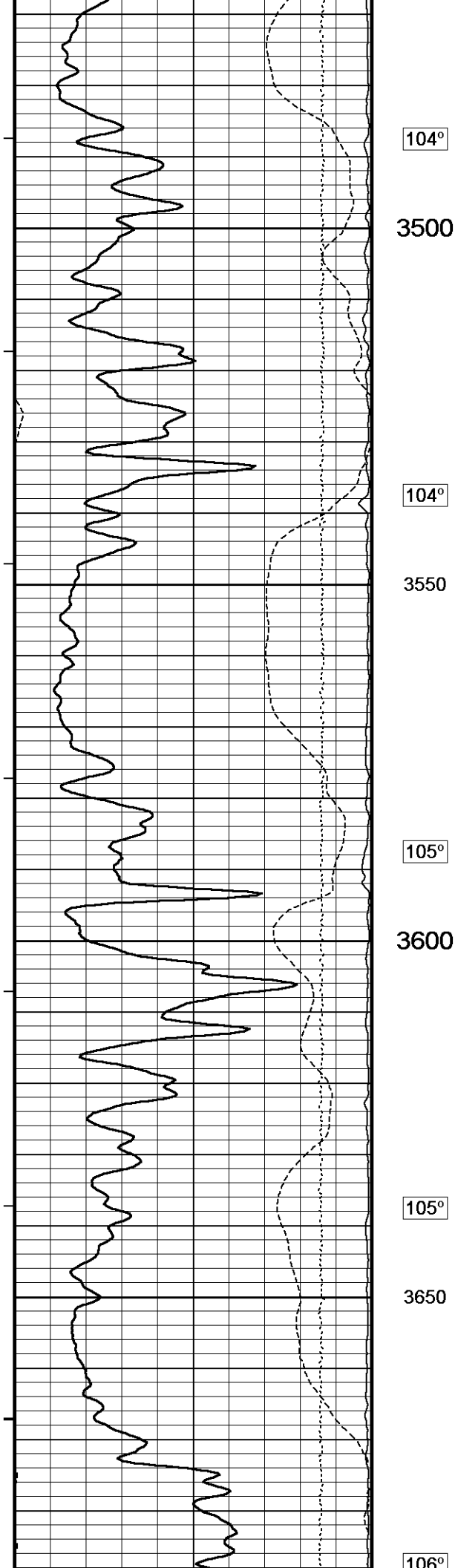
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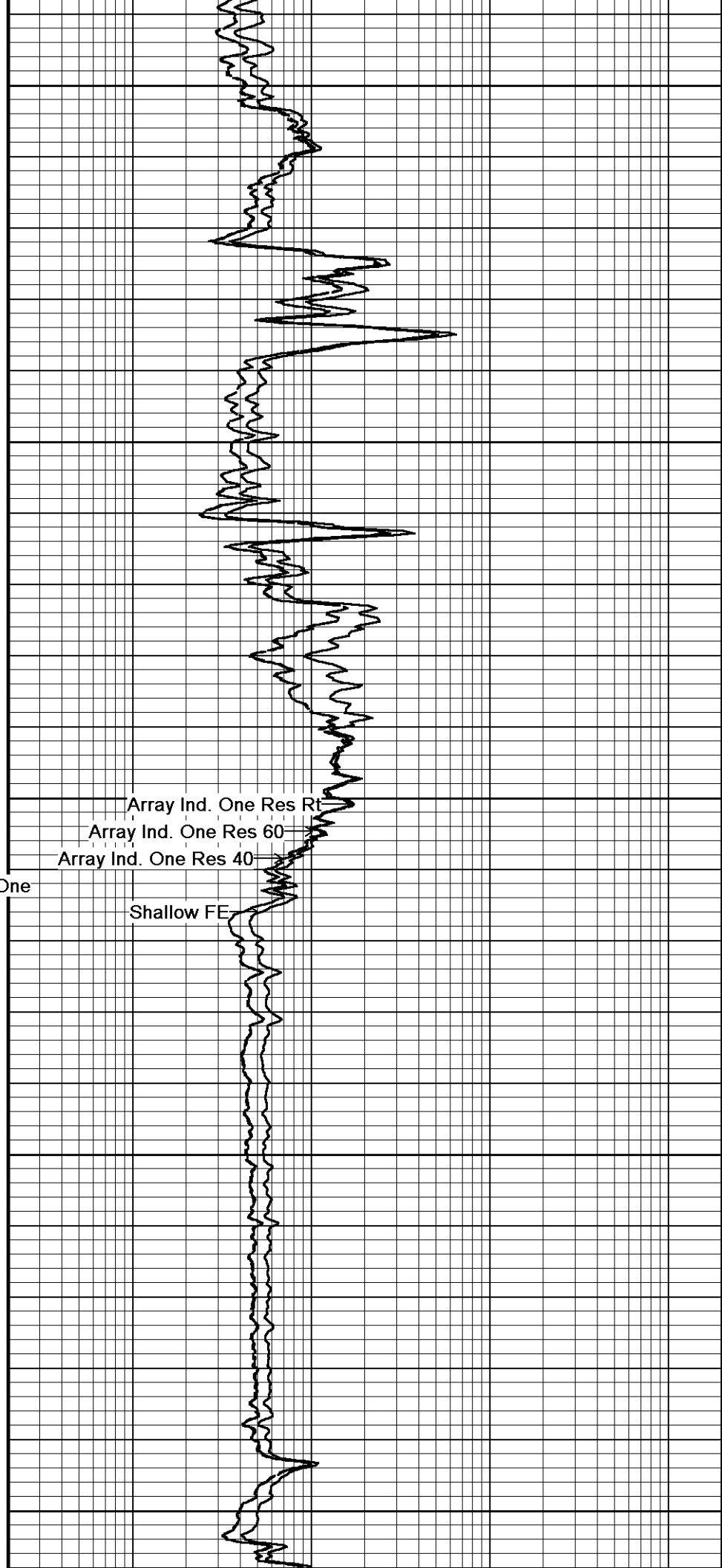
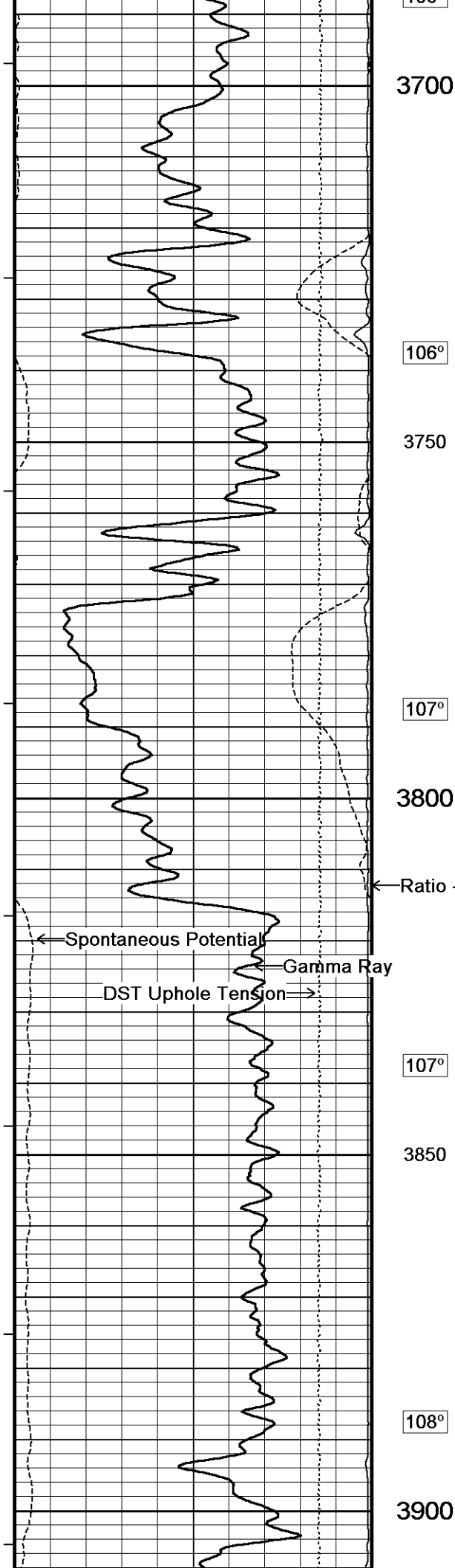
Ratio - One

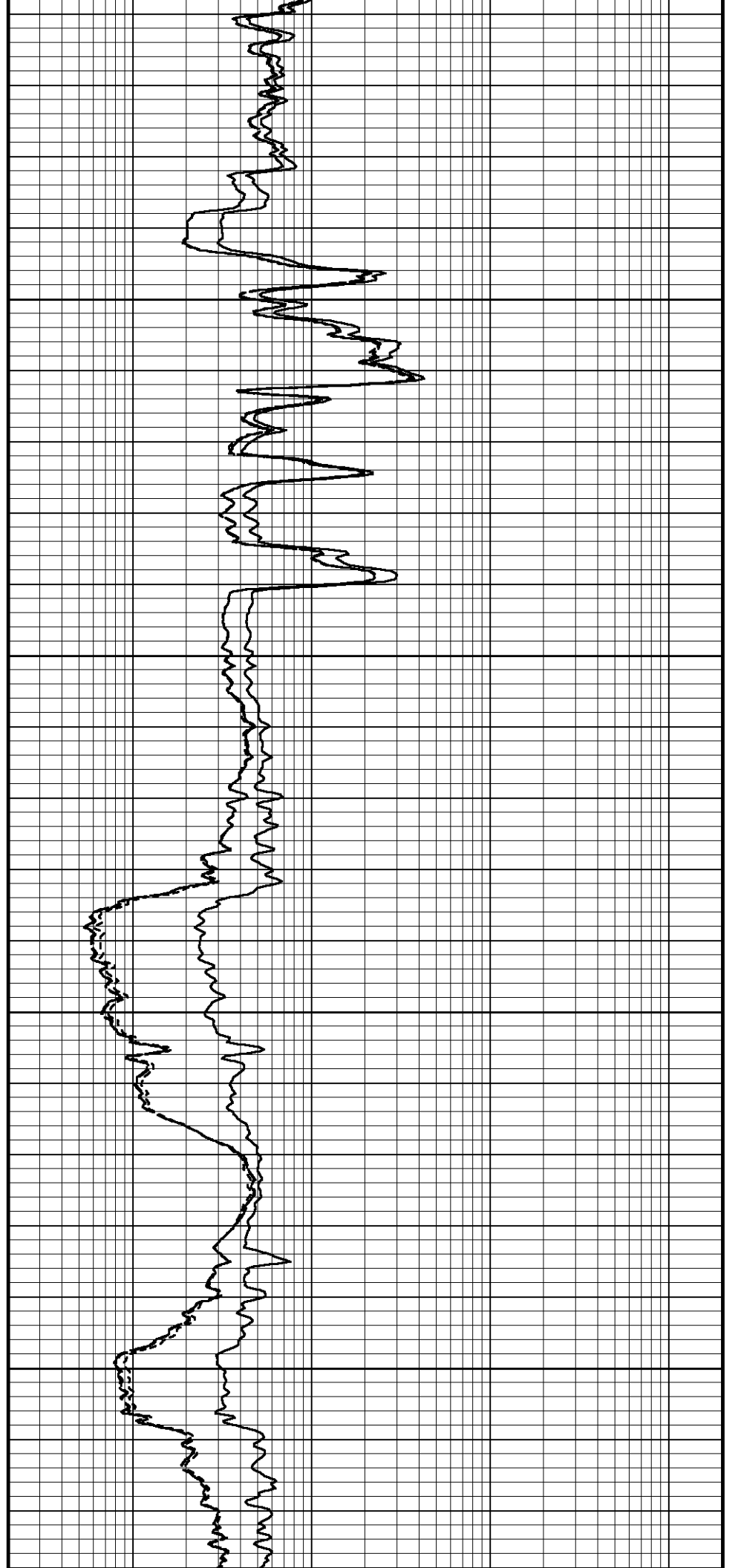
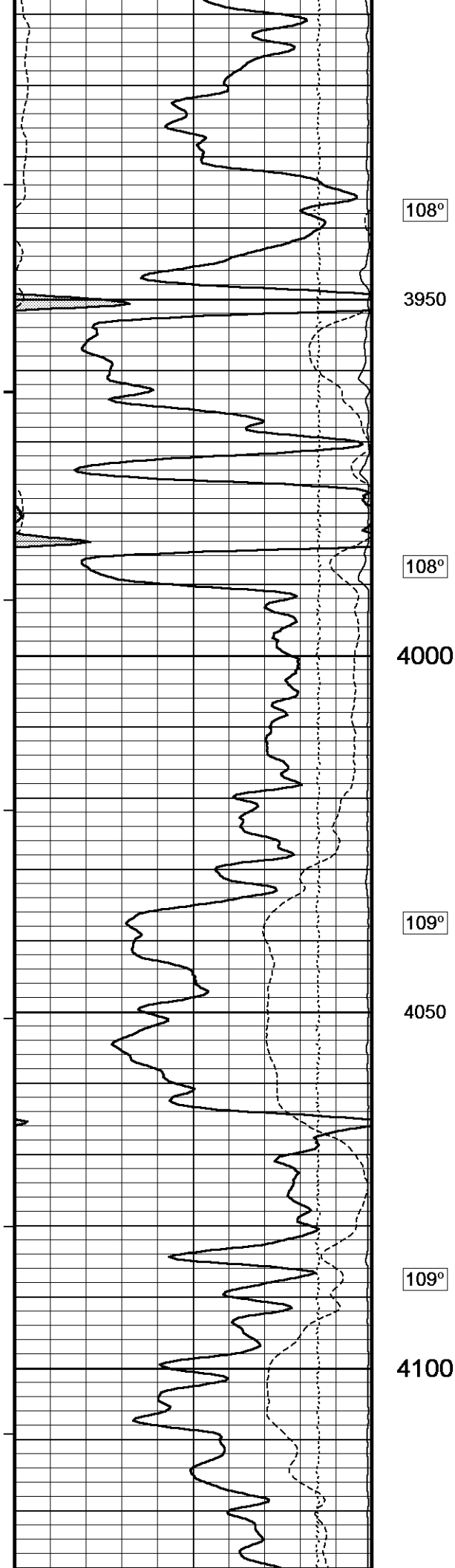


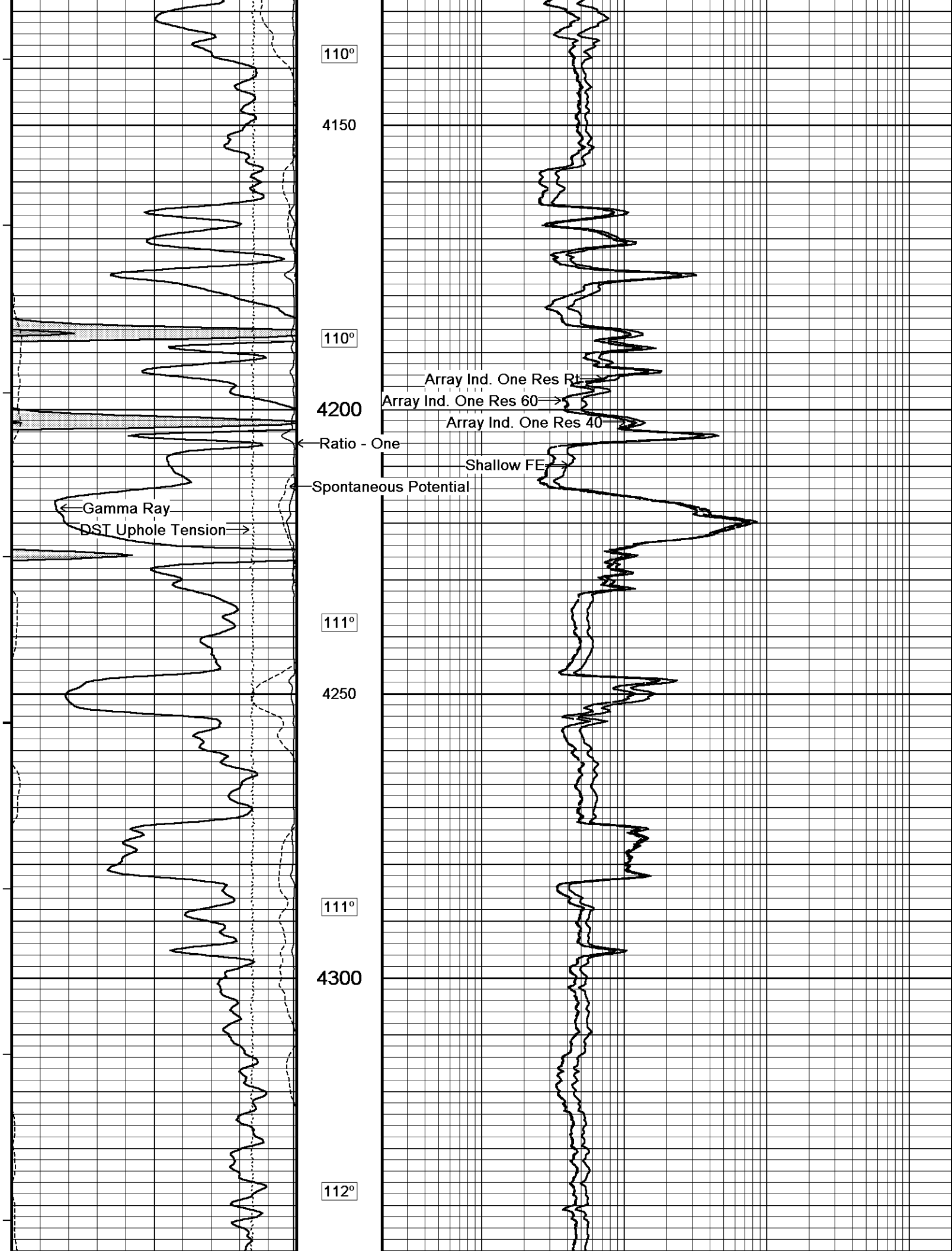


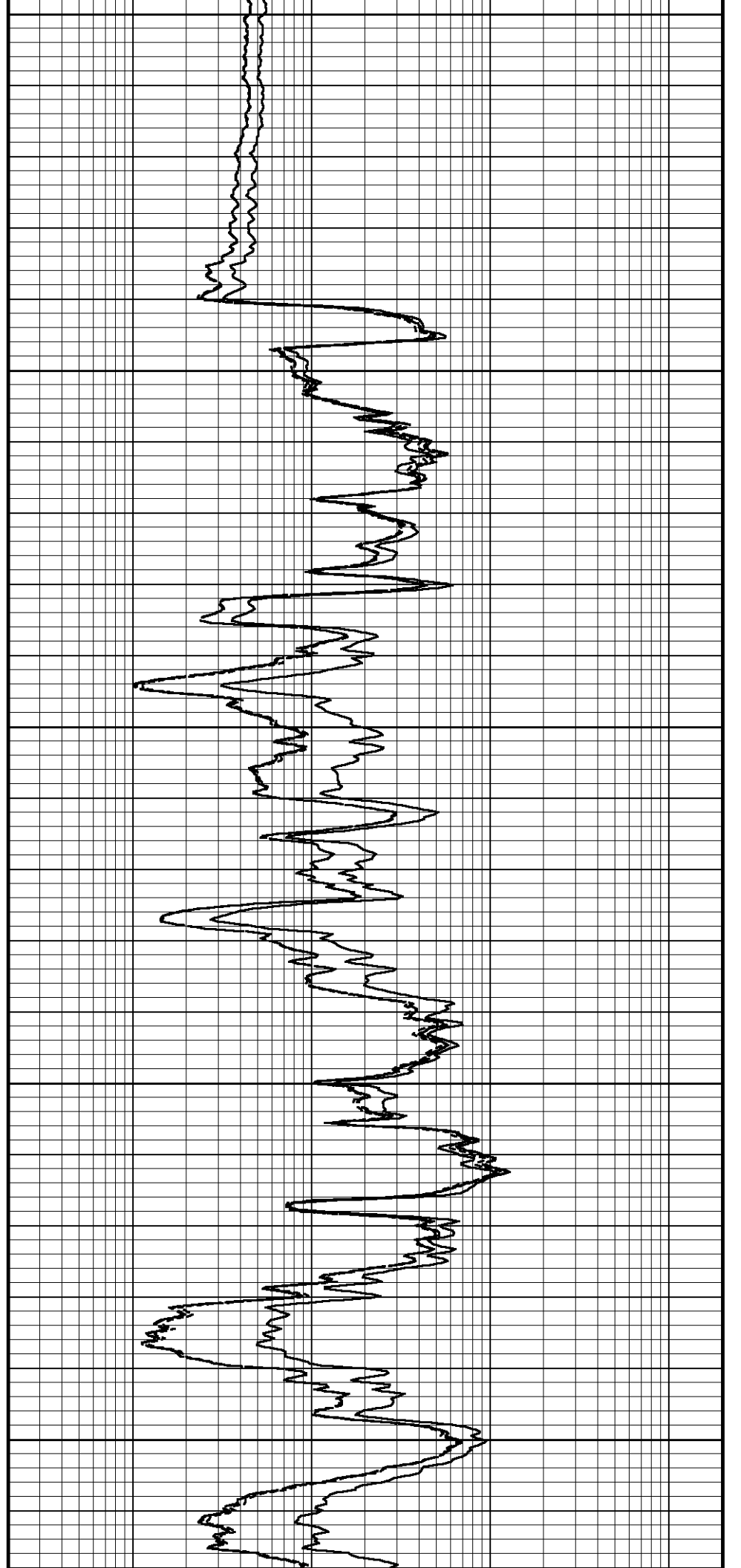
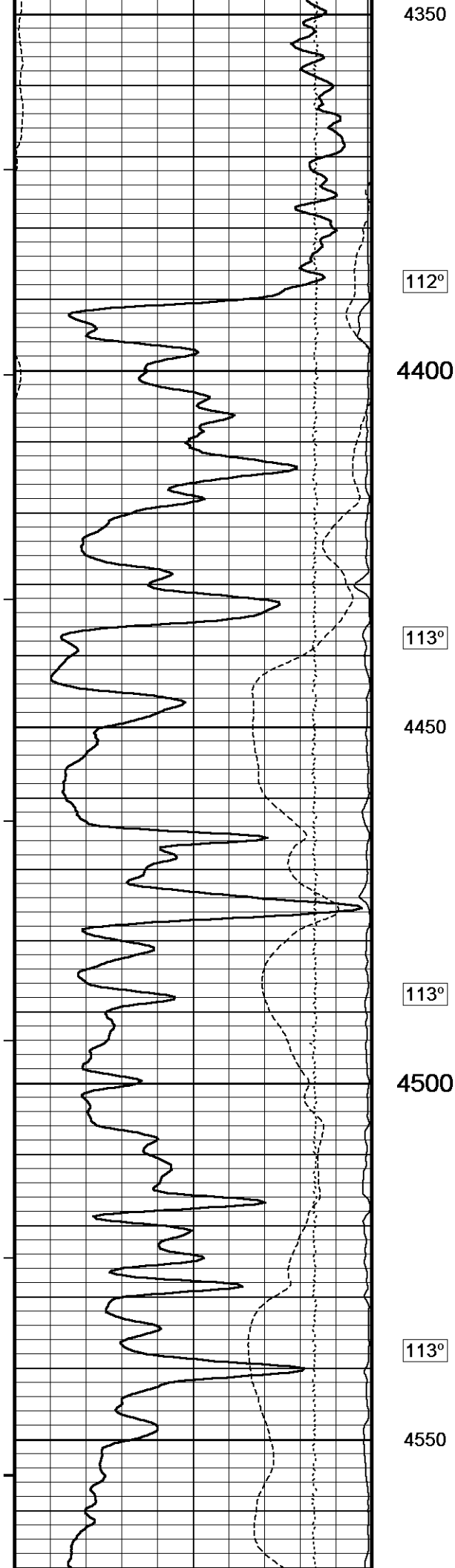


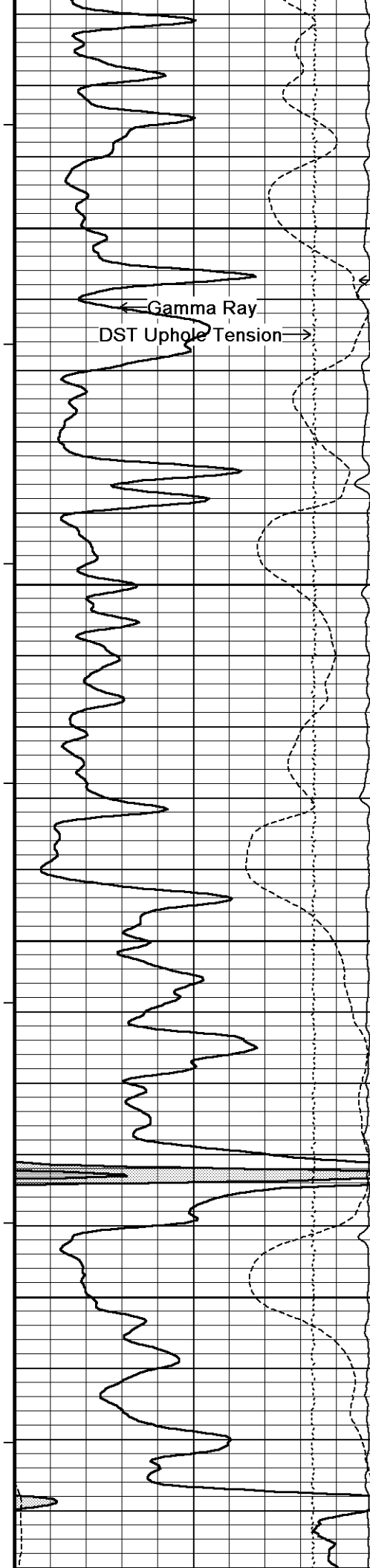












113°

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

4600 One

Spontaneous Potential

Gamma Ray
DST Uphole Tension

Shallow EE

114°

4650

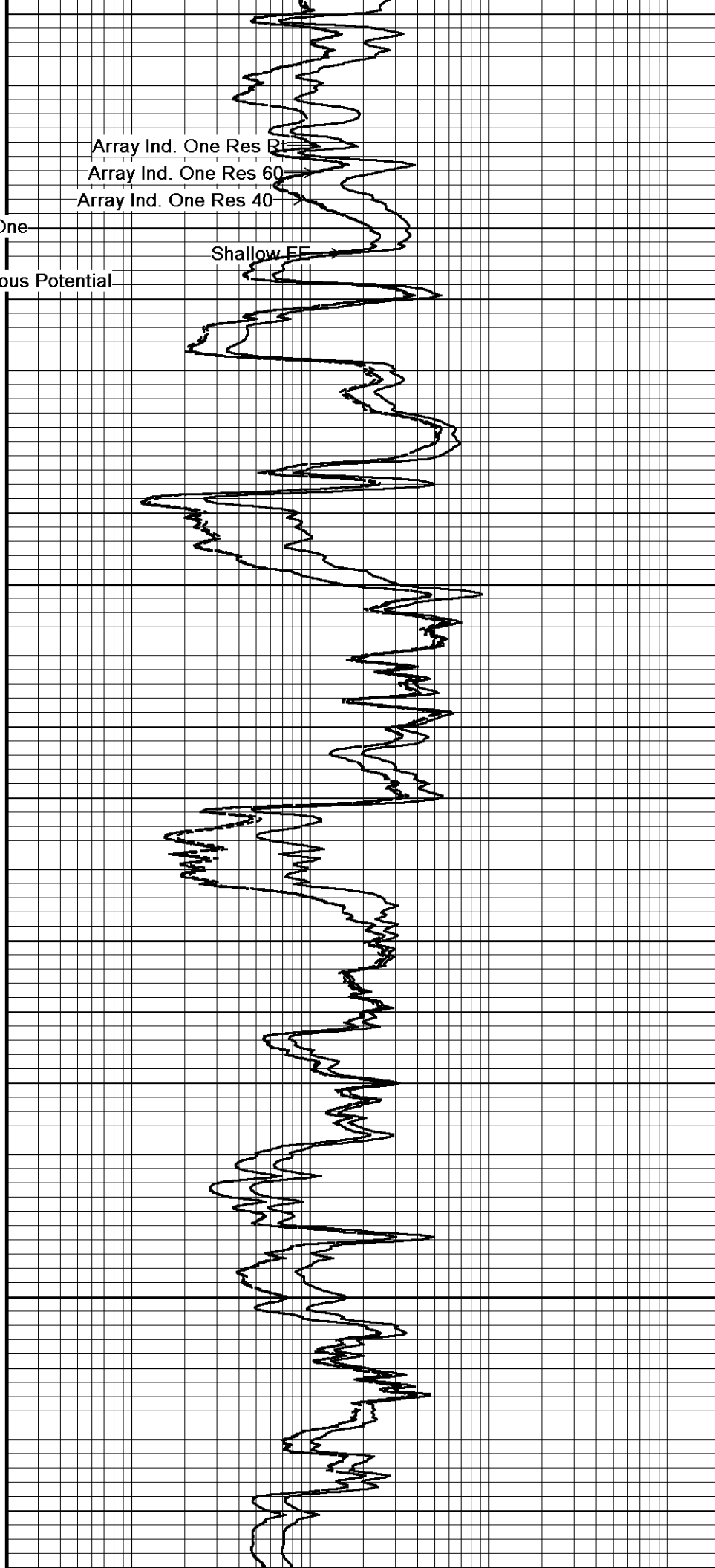
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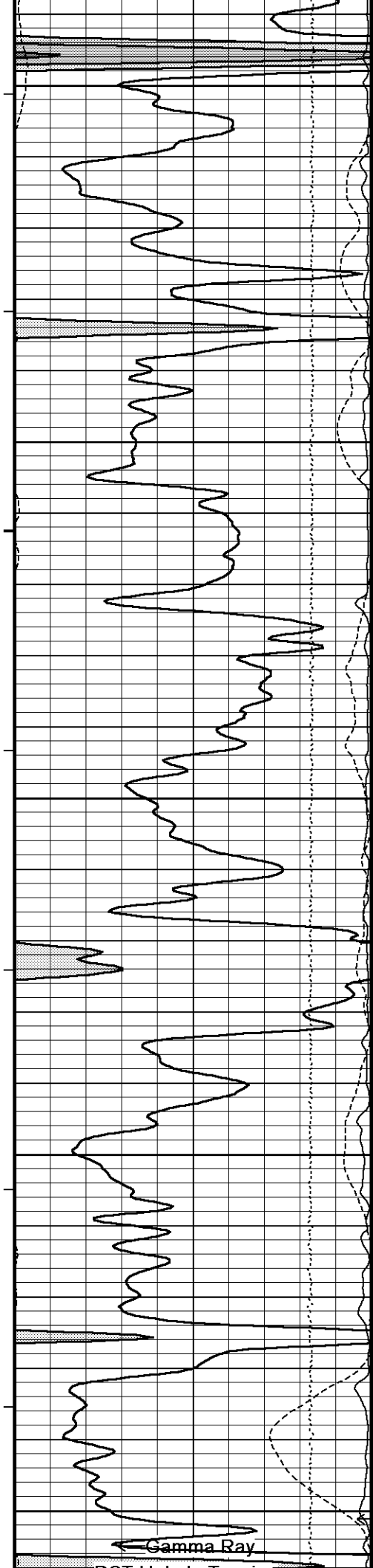
4700

115°

4750

116°





115°
4800

116°

4850

117°

4900

118°

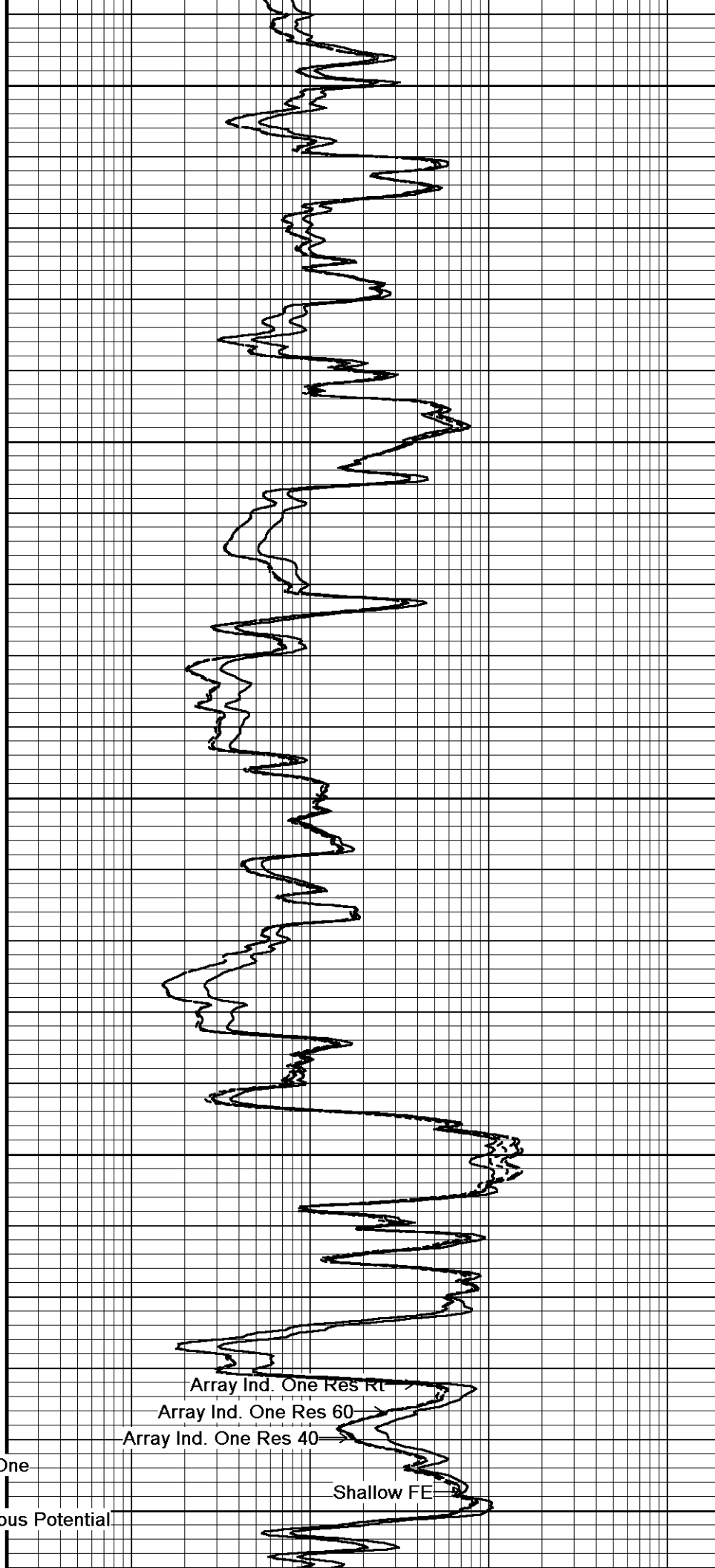
4950

118°

Ratio - One

5000
Spontaneous Potential

Gamma Ray

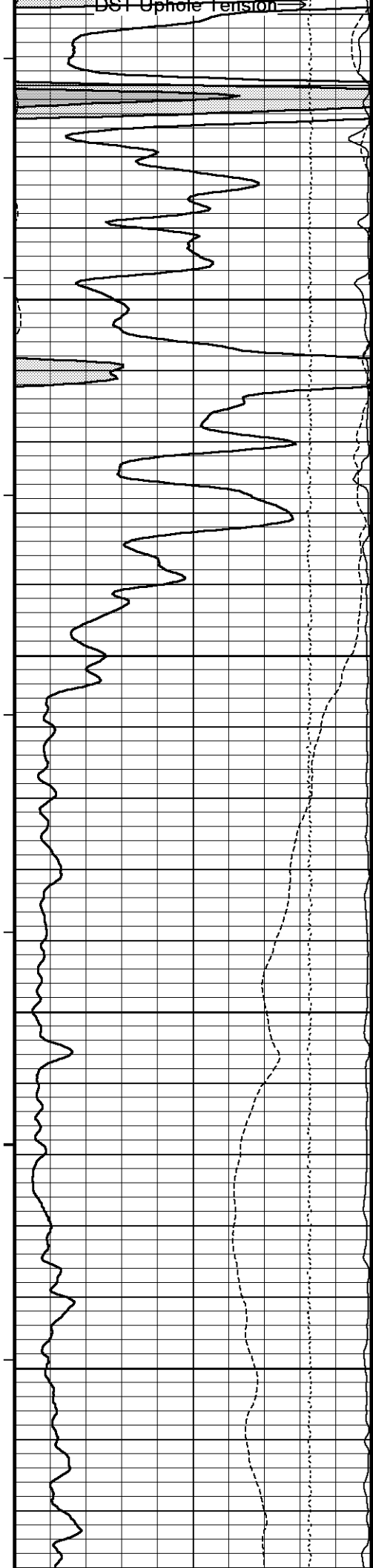


Array Ind. One Res Rt

Array Ind. One Res 60

Array Ind. One Res 40

Shallow FE



118°

5050

119°

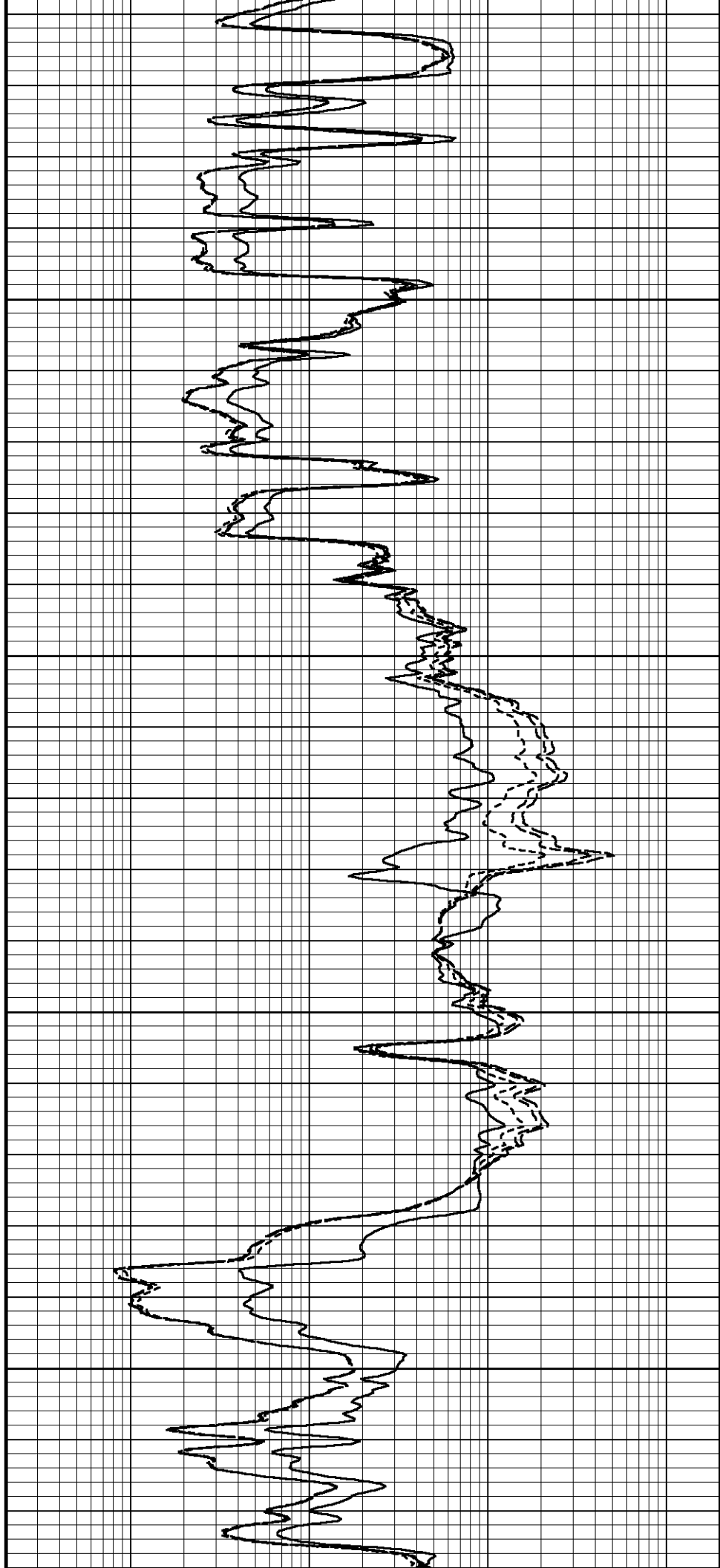
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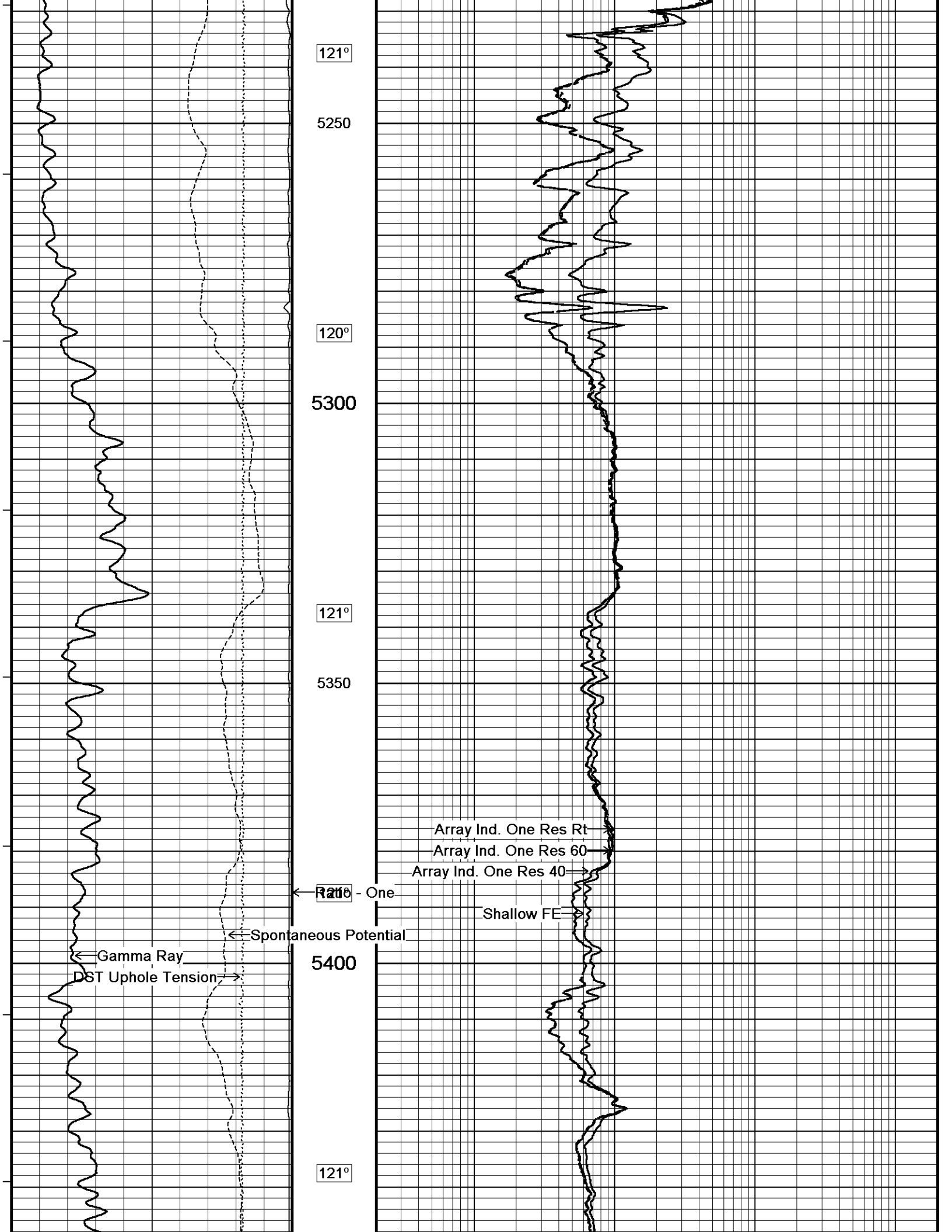
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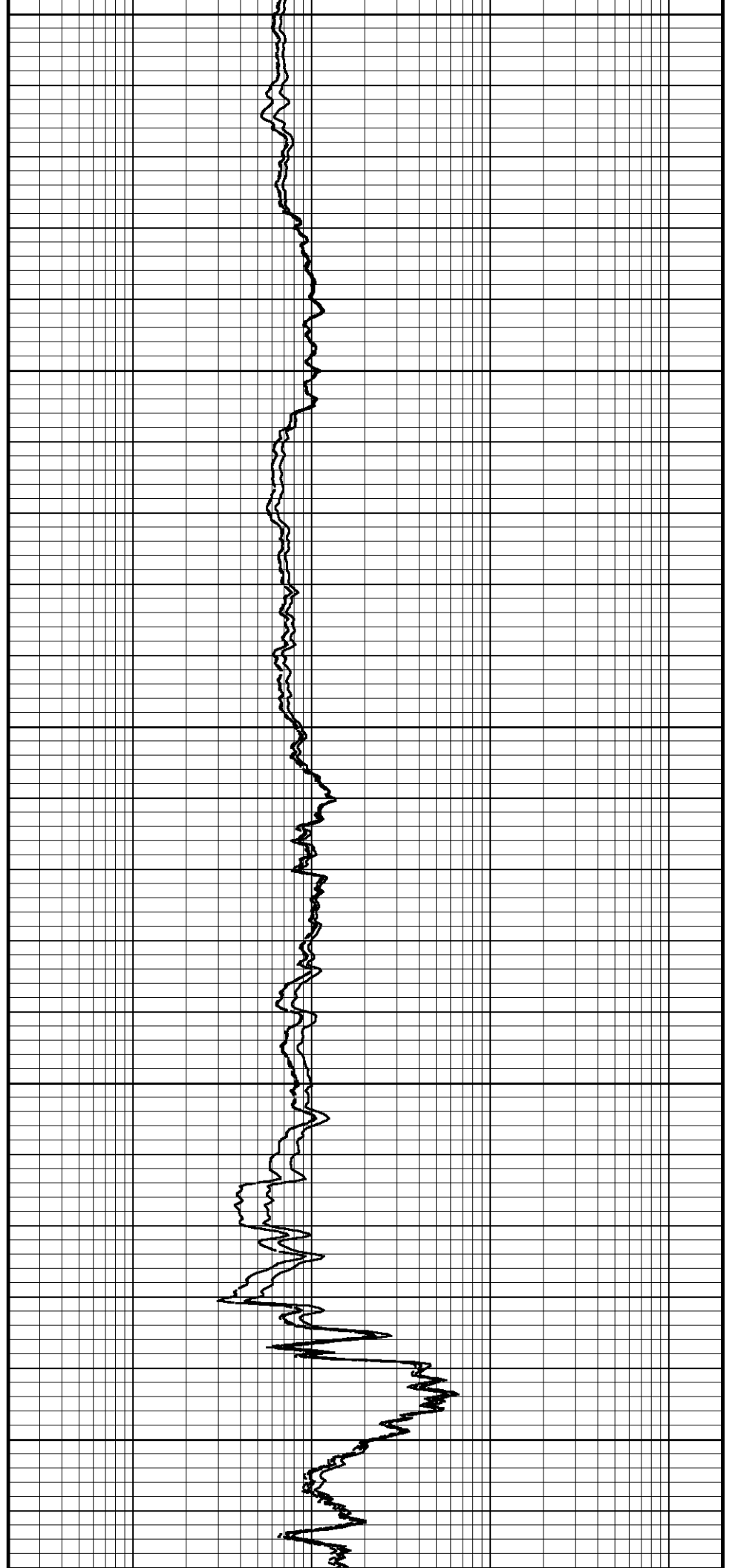
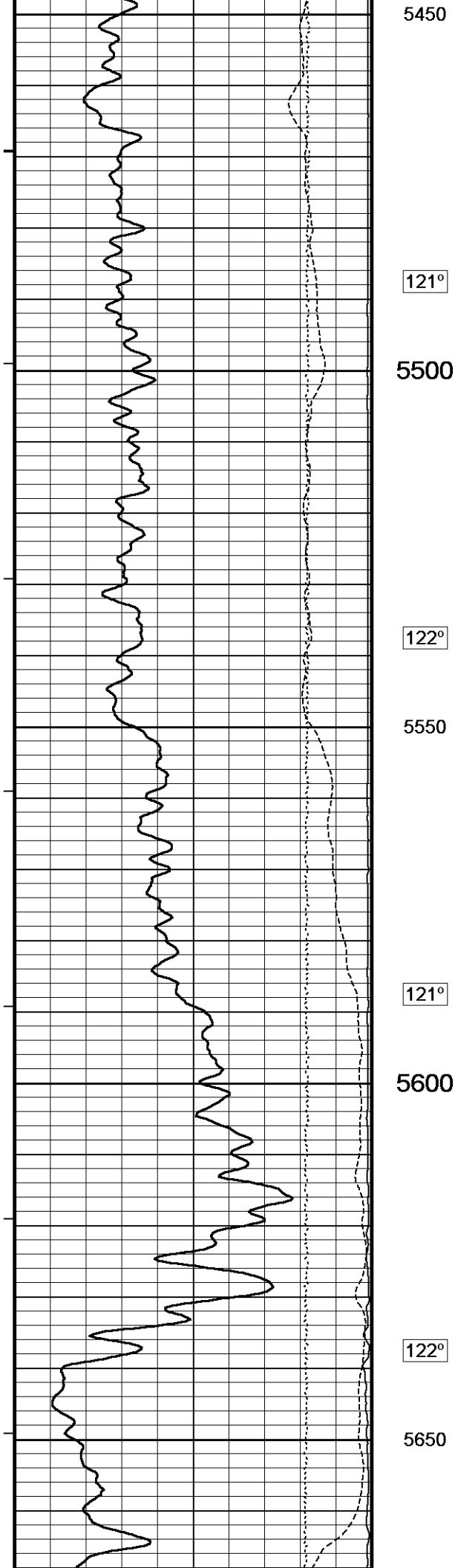
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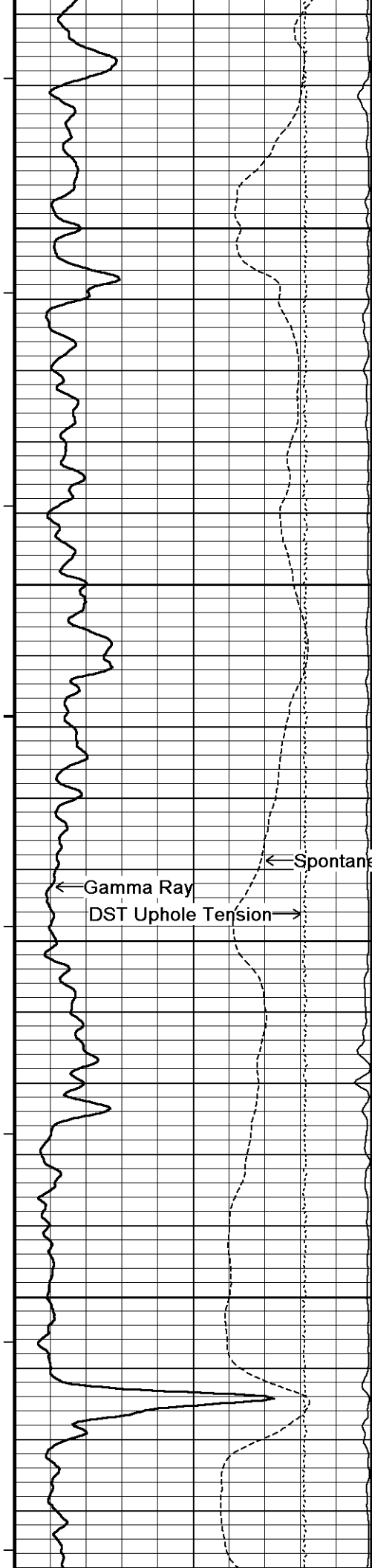
120°

5200









123°

5700

124°

5750

125°

5800

125°

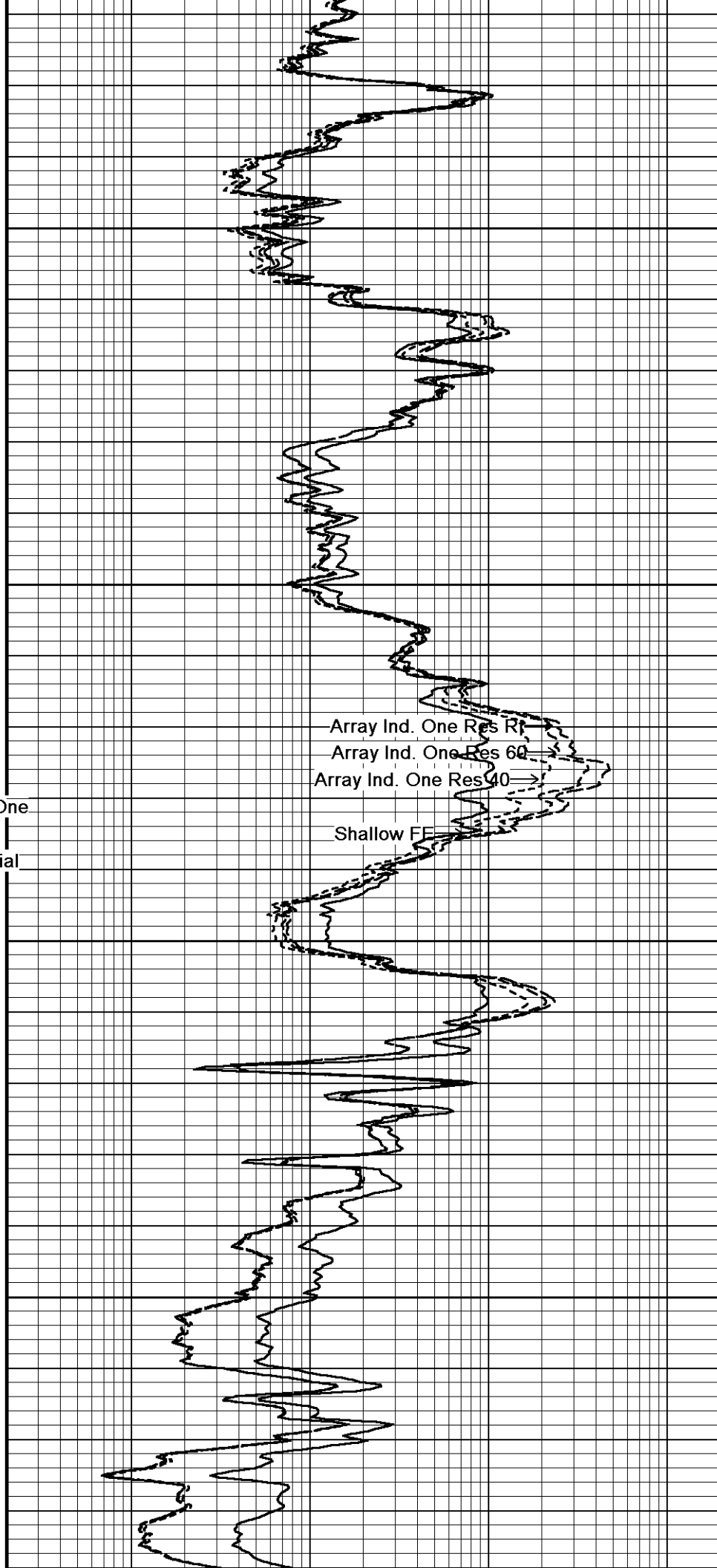
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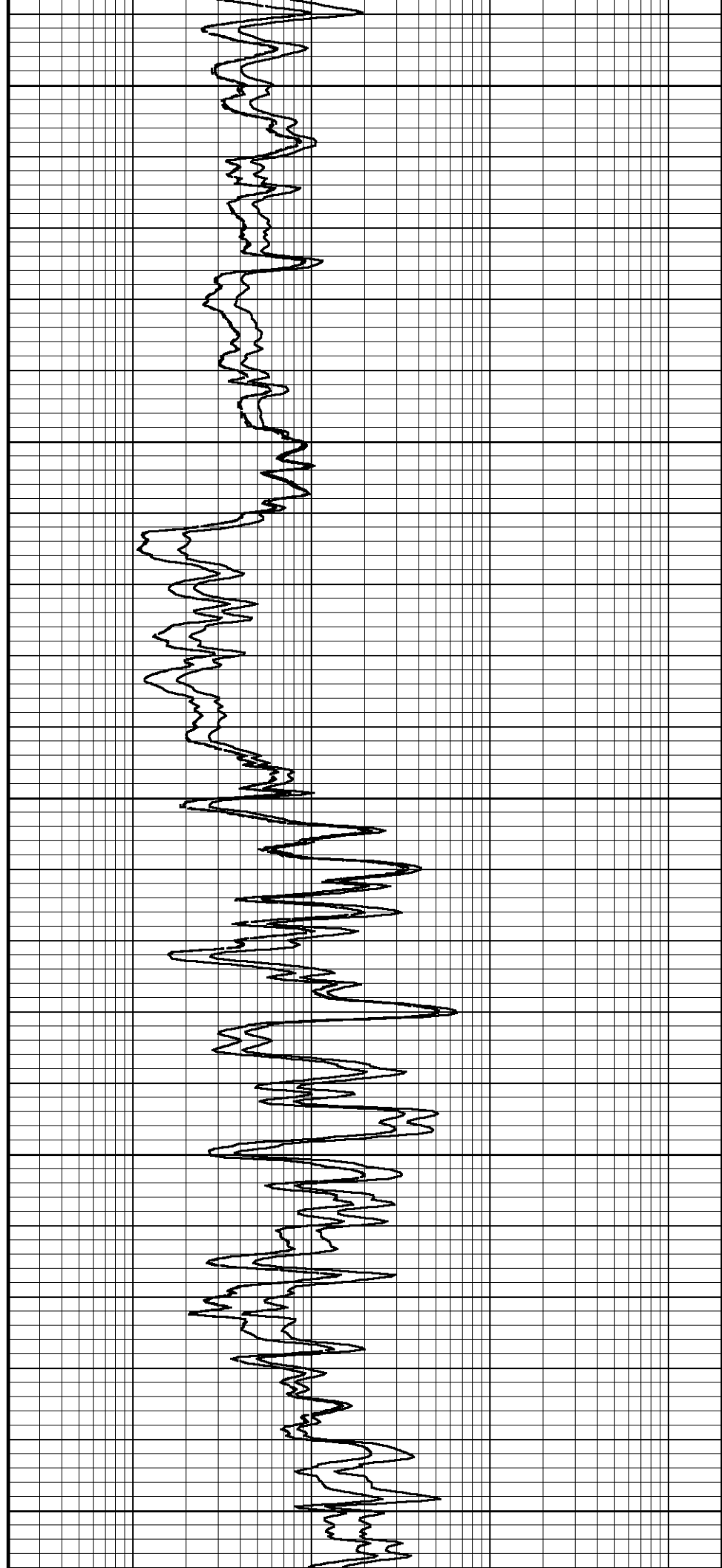
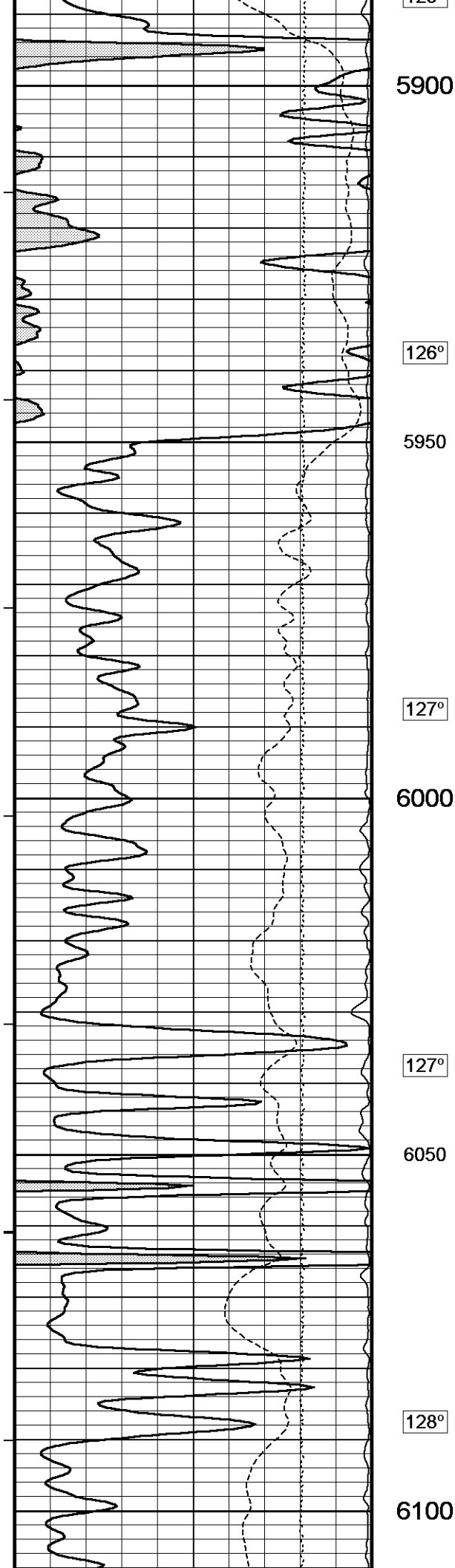
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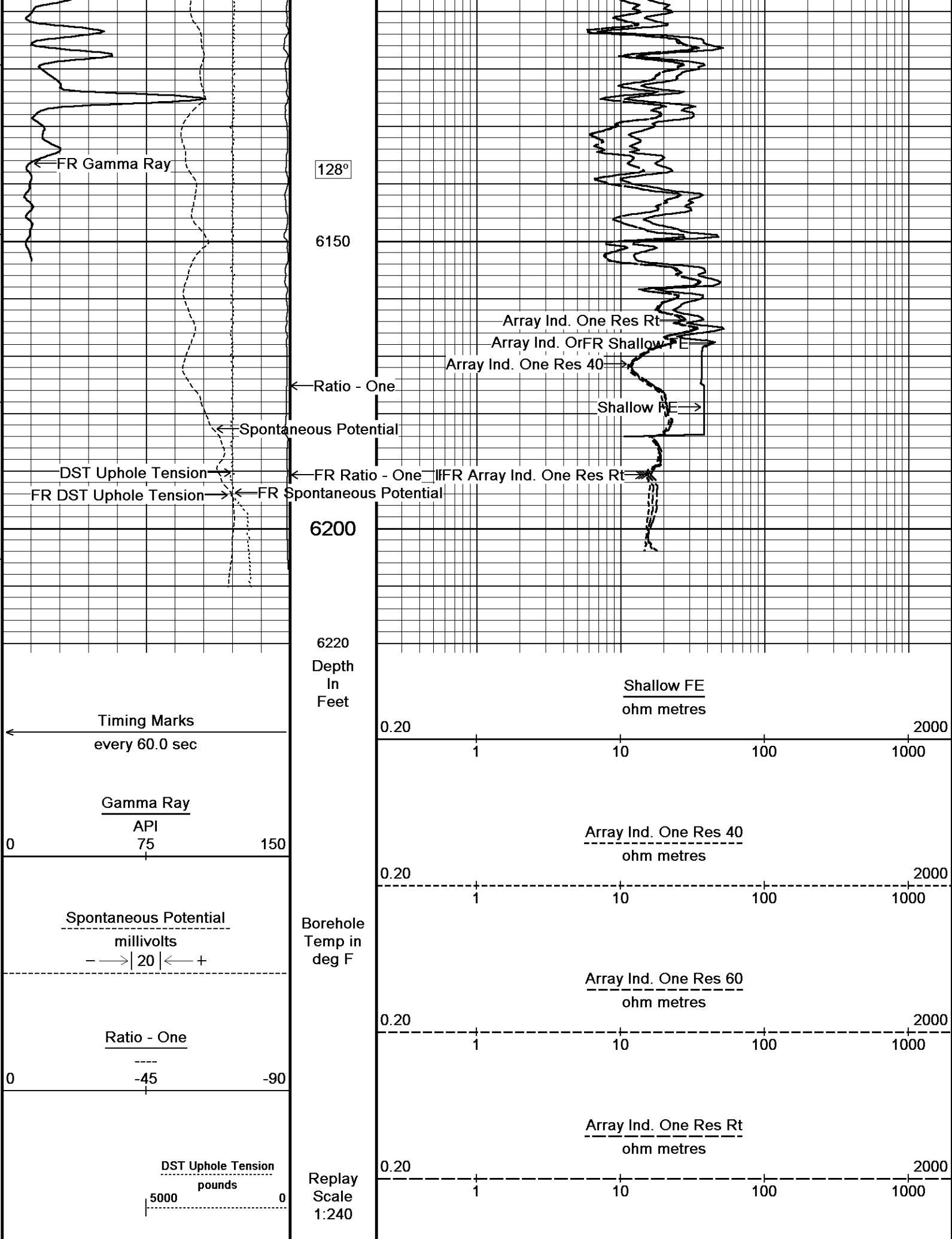
← Ratio - One

← Spontaneous Potential

← Gamma Ray
DST Uphole Tension →







↑

5 INCH MAIN

↑

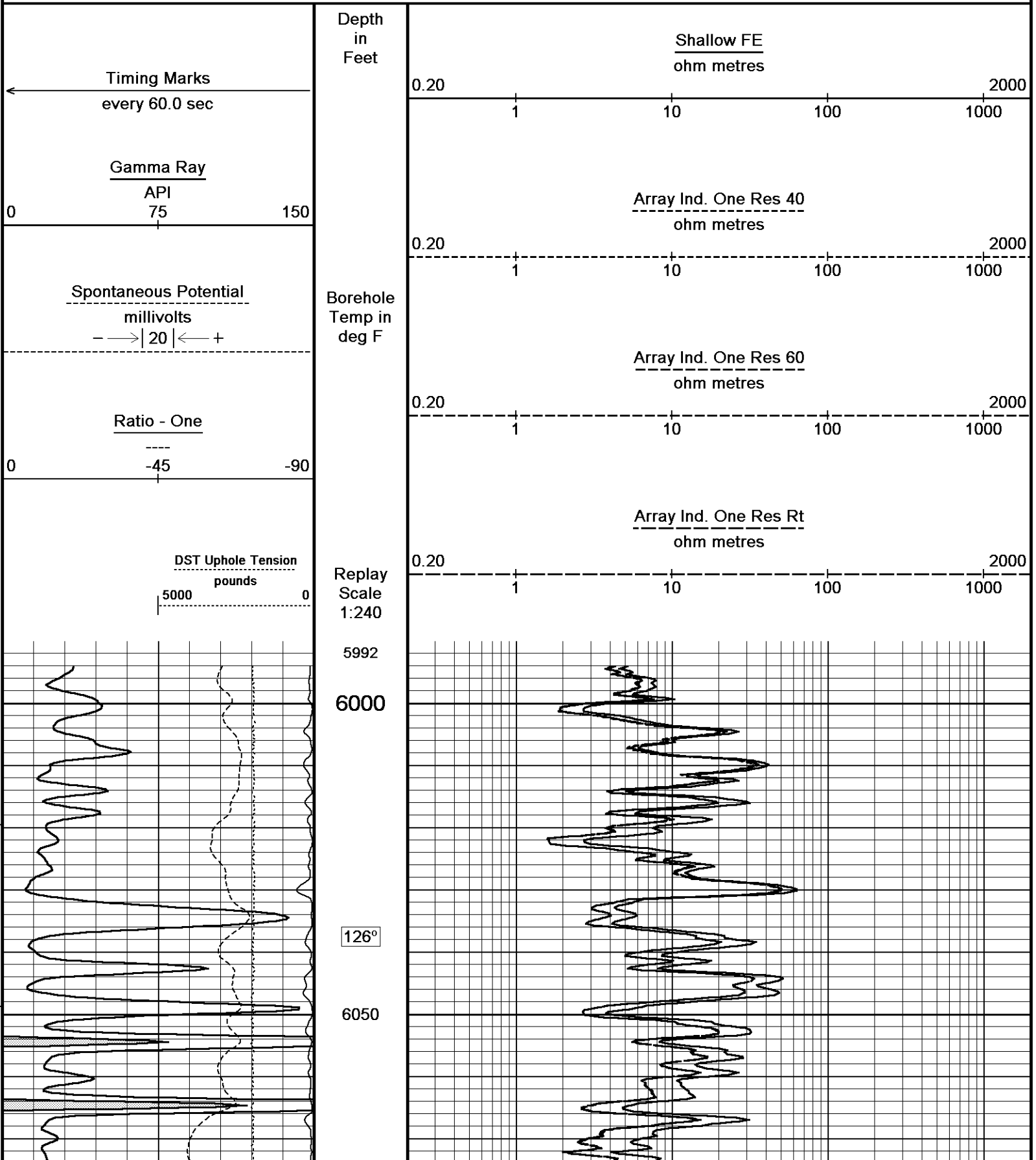
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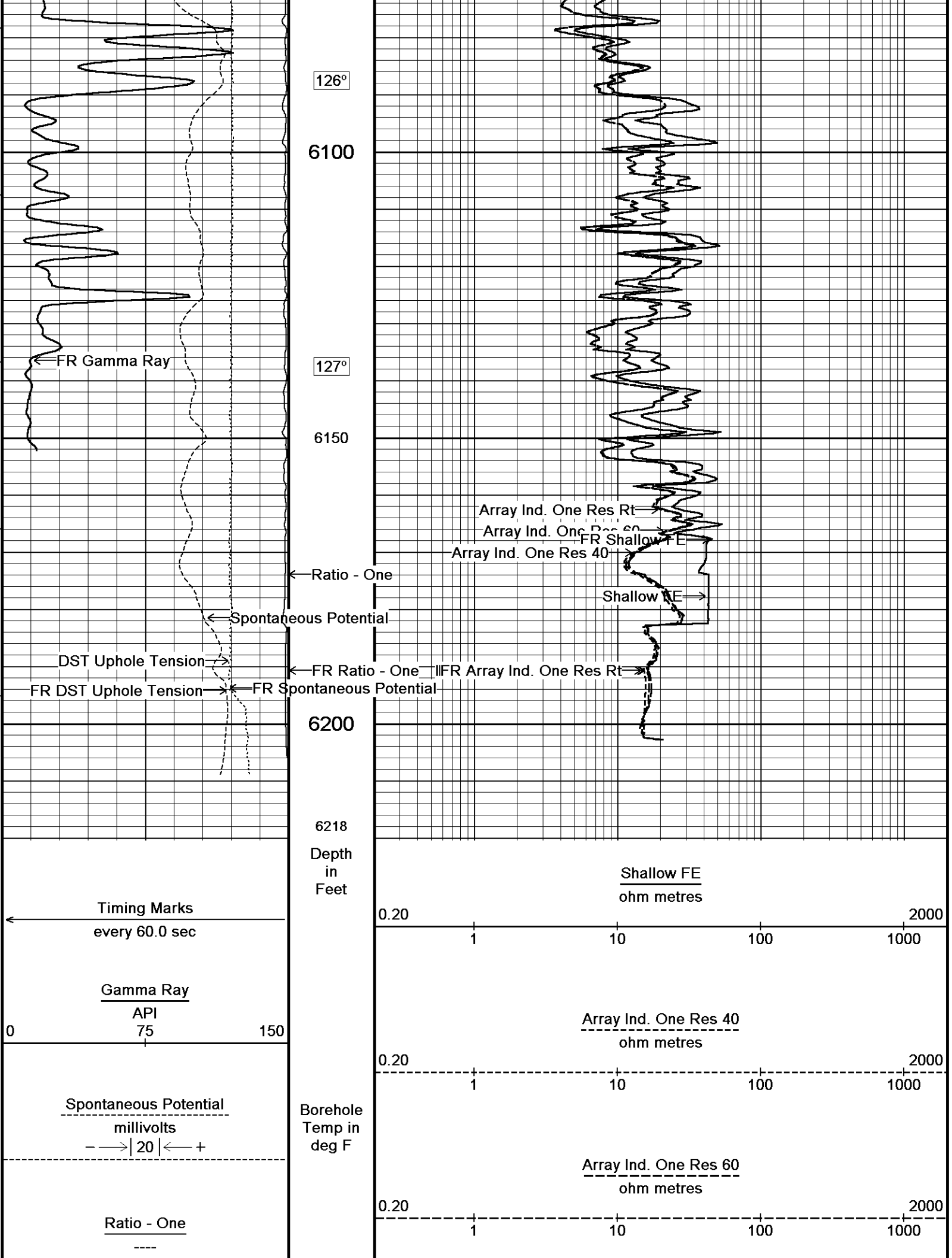
REPEAT SECTION

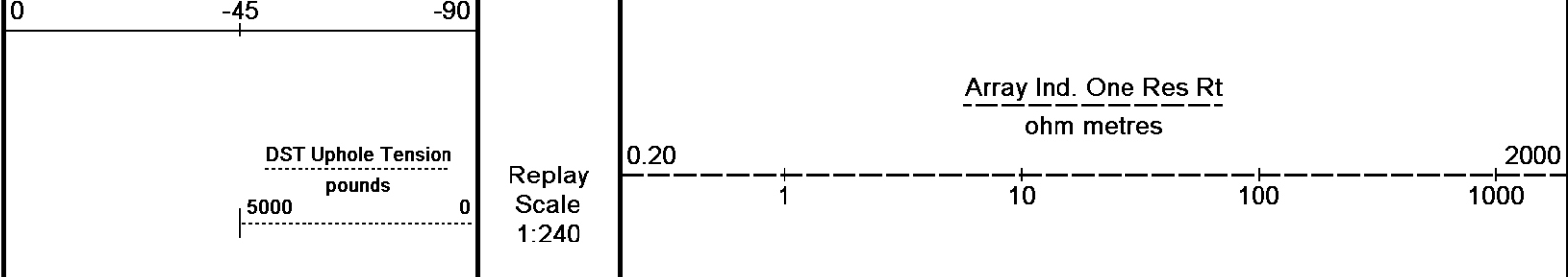
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Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\Minimus 11_03_4044\Data\SandRidge Yankee ...\SandRidge Yankee SWD 1-27_001.dta
System Versions: Logged with 11.03.4044 Plotted with 11.03.4044

Plotted on 14-MAR-2012 18:17
Recorded on 14-MAR-2012 14:42







Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 14-MAR-2012 18:17
 Filename: C:\Minimus 11_03_4044\Data\SandRidge Yankee ...\SandRidge Yankee SWD 1-27_001.dta Recorded on 14-MAR-2012 14:42
 System Versions: Logged with 11.03.4044 Plotted with 11.03.4044

↑
 REPEAT SECTION
 ↑

BEFORE SURVEY CALIBRATION
 C:\Minimus 11_03_4044\Data\SandRidge Yankee SWD 1-27\SandRidge Yankee SWD 1-27_002.dta

General Constants All 000			Last Edited on 14-MAR-2012,08:54		
General Parameters					
Mud Resistivity	0.620		ohm-metres		
Mud Resistivity Temperature	84.000		degrees F		
Water Level	0.000		feet		
Density/Neutron 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	7.000		inches		
Caliper for Differential Caliper	None				
Rwa Parameters					
Porosity used	Limestone Density Por.				
Resistivity used	Array Ind. One Res Rt				
RWA Constant A	1.000				
RWA Constant M	2.000				

Down-hole Tension Calibration SMS 0			Field Calibration on 23-FEB-2012 23:25
Reading No	Measured	Calibrated (lbs)	
1	13693.36	0.00	
2	14387.39	407.90	

SP Calibration MCG-D.K 443			Field Calibration on 01-FEB-2012 10:26
	Measured	Calibrated (mV)	
Reference 1	100.9	100.0	
Reference 2	-98.4	-100.0	

High Resolution Temperature Calibration MCG-D.K 443			Field Calibration on 12-JAN-2012,09:06
	Measured	Calibrated(Deg F)	
Lower	50.00	50.00	
Upper	100.00	100.00	

High Resolution Temperature Constants MCG-D.K 443		Last Edited on
Pre-filter Length	11	

Gamma Calibration MCG-D.K 443			Field Calibration on 12-MAR-2012 17:00
	Measured	Calibrated (API)	
Background	66	44	
Calibrator (Gross)	743	500	
Calibrator (Net)	677	456	

Gamma Constants MCG-D.K 443		Last Edited on 14-MAR-2012,08:40
Gamma Calibrator Number	grc141	

Mud Density	1.12	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

Caliper Calibration MML-A 9			Base Calibration on 06-FEB-2012 09:52 Field Calibration on 12-MAR-2012 16:54		
Base Calibration					
Reading No		Measured	Calibrator Size (in)		
1		15071	5.98		
2		18450	7.97		
3		21808	9.86		
4		25812	11.92		
5		0	0.00		
6		N/A	N/A		
Field Calibration					
		Measured Caliper (in)	Actual Caliper (in)		
		6.09	5.98		

Micro Normal and Micro Inverse Calibration MML-A 9					Base Calibration on 06-FEB-2012 09:39	
					Field Check on 12-MAR-2012 16:55	
Base Calibration						
		Measured		Calibrated (ohm-m)		
Channel	Resistor 1	Resistor 2	Resistor 1	Resistor 2		
Micro Normal	12.1	59.8	2.6	12.8		
Micro Inverse	15.6	78.1	1.7	8.4		
Channel		Base Check (ohm-m)		Field Check (ohm-m)		
Micro Normal		32.4		32.4		
Micro Inverse		16.4		16.4		

Micro Normal and Micro Inverse Constants MML-A 9				Last Edited on 12-MAR-2012,16:54	
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	N/A		inches		

Neutron Calibration MDN-A.B 39				Base Calibration on 12-MAR-2012 14:56	
				Field Check on 12-MAR-2012 15:18	
Base Calibration					
	Measured		Calibrated (cps)		
	Near	Far	Near	Far	
	2762	87	3714	110	
Ratio	31.770		33.764		
Field Calibrator at Base					
			Calibrated (cps)		
			2387	3366	
Ratio			0.709		
Field Check					
			Calibrated (cps)		
			2373	3373	
Ratio			0.703		

Neutron Constants MDN-A.B 39			Last Edited on 13-MAR-2012,10:47		
Neutron Source Id	N1095				
Neutron Jig Number	NECD117				
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	None				
Formation Pressure	N/A	kpsi			
Temperature Source	Constant Value				
Temperature	68.00	degrees F			
Mud Salinity	0.00	kppm			
Formation Fluid Salinity Source	Constant Value				
Formation Fluid Salinity	0.00	kppm			

Formation Fluid Salinity	0.00	kppm
Barite Mud Correction	Not Applied	

FE Calibration MFE-A.A 67			Base Calibration on 06-FEB-2012 10:02
			Field Check on 12-MAR-2012 16:46
Base Calibration			
	Measured	Calibrated (ohm-m)	
Reference 1	0.0	0.0	
Reference 2	959.8	126.8	
Base Check		280.8	
Field Check		280.8	

FE Constants MFE-A.A 67			Last Edited on 13-MAR-2012,10:46	
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

Sonic Constants MSS-A.A 126			Last Edited on 14-MAR-2012,08:39
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
3' Waveform Filter	N/A	
4' Waveform Filter	N/A	
5' Waveform Filter	N/A	
6' Waveform Filter	N/A	
Semblance Level	N/A	
Semblance Window Width	N/A	micro-sec
Sonic 1 Despiker	N/A	N/A
Sonic 2 Despiker	N/A	N/A

High Resolution Temperature Calibration MAI-A.A 188			Field Calibration on 12-AUG-2011,21:41
	Measured	Calibrated(Deg F)	
Lower	32.00	32.00	
Upper	68.00	68.00	

High Resolution Temperature Constants MAI-A.A 188		Last Edited on 21-JUN-2011,19:05
Pre-filter Length	11	

Induction Calibration MAI-A.A 188				Base Calibration on 04-JAN-2012,13:31	
				Field Check on 12-MAR-2012 16:44	
Base Calibration					
Test Loop Calibration		Measured		Calibrated (mmho/m)	
Channel	Low	High	Low	High	
1	16.9	470.2	9.3	966.2	
2	6.4	377.1	7.6	821.4	
3	3.9	257.8	5.2	566.0	
4	1.7	135.1	2.6	279.2	
Array Temperature		66.3	Deg F		
Channel	Base Check (mmho/m)		Field Check (mmho/m)		
	Low	High	Low	High	
1	0.0	0.0	14.0	3867.0	
2	0.0	0.0	30.2	3583.9	
3	0.0	0.0	28.0	3078.1	
4	0.0	0.0	19.9	2046.4	
Deep	0.0	0.0	17.3	1954.7	
Medium	0.0	0.0	40.4	4113.9	
Shallow	0.0	0.0	45.0	5368.3	
Array Temperature		0.0		74.3	Deg F

Induction Constants MAI-A.A 188		Last Edited on 13-MAR-2012,10:46	
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 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 65

Base Calibration on 06-FEB-2012 15:42

Field Calibration on 12-MAR-2012 16:48

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	14246	3.99
2	22911	5.98
3	31473	7.97
4	39776	9.86
5	48992	11.92
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
6.04	5.98

Photo Density Calibration MPD-B 65

Base Calibration on 06-FEB-2012 16:03

Field Check on 12-MAR-2012 16:53

Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	58421	27705	59556	30836
Reference 2	23654	2410	24941	2541

Field Check at Base

1233.9 1179.6

Field Check

1226.3 1175.3

PE Calibration

Base Calibration	WS	Measured		Calibrated Ratio
		WH	Ratio	
Background	226	1097		
Reference 1	21385	58213	0.370	0.371
Reference 2	6241	23505	0.268	0.272

Field Check at Base

225.7 1097.3

Field Check

222.9 1089.8

Density Constants MPD-B 65

Last Edited on 14-MAR-2012,08:40

Density Source Id	P57072B
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	1.12 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

DOWNHOLE EQUIPMENT

C:\Minimus 11_03_4044\Data\SandRidge Yankee SWD 1-27\SandRidge Yankee SWD 1-27_002.dta

Compact Comms Gamma
MCG-D.K 443 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Comms Gamma
MCG-D.K 443 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Micro-log
MML-A 9 LG: 7.97 ft WT: 81.6 lb OD: 2.24 in

Compact Micro-log
MML-A 9 LG: 7.97 ft WT: 81.6 lb OD: 2.24 in

Compact Neutron
MDN-A.B 39 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Neutron
MDN-A.B 39 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper
MPD-B 65 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

Compact Density/Caliper
MPD-B 65 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

SKJ-D.A Compact Knuckle Joint
SKJ-D.A 91 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

SKJ-D.A Compact Knuckle Joint
SKJ-D.A 91 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

Compact Focussed Electric
MFE-A.A 67 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

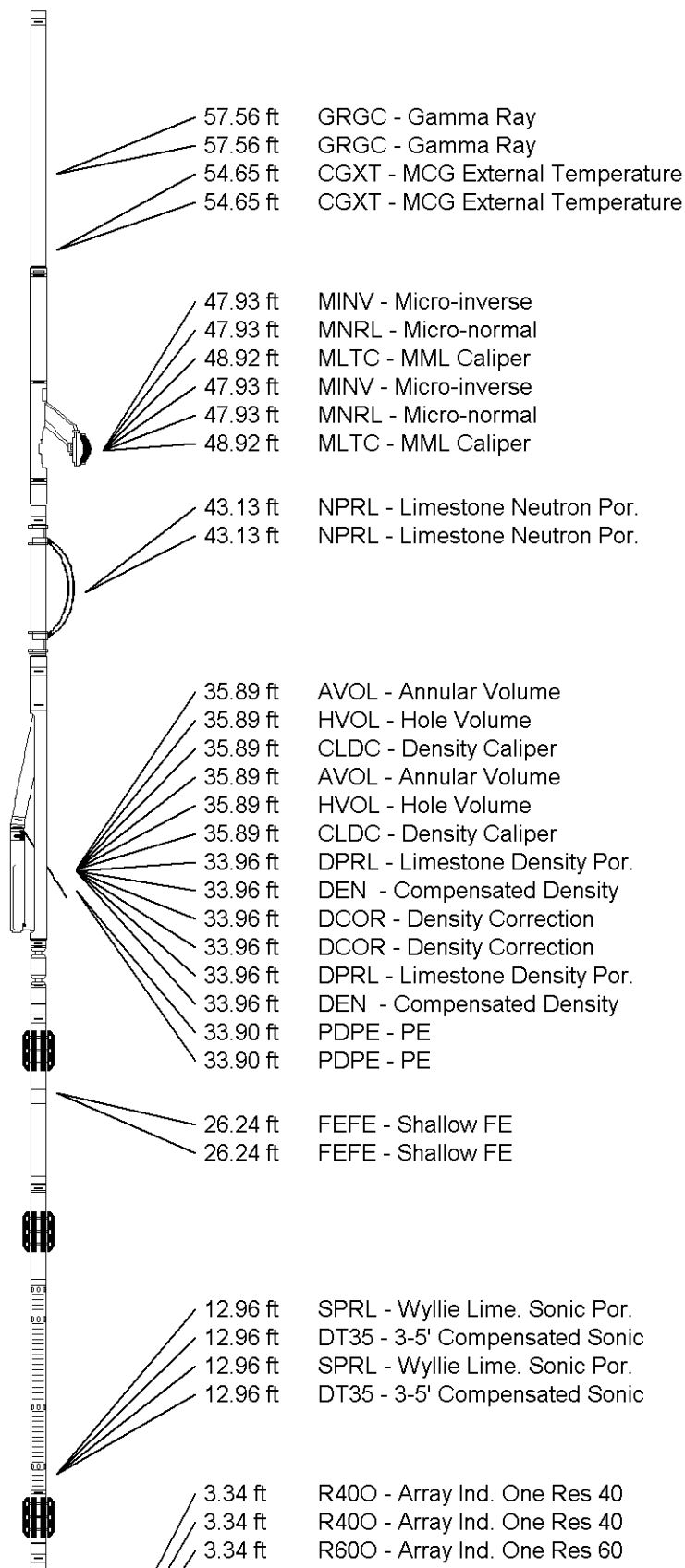
Compact Focussed Electric
MFE-A.A 67 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

Compact Sonic
MSS-A.A 126 LG: 12.52 ft WT: 72.8 lb OD: 2.24 in

Compact Sonic
MSS-A.A 126 LG: 12.52 ft WT: 72.8 lb OD: 2.24 in

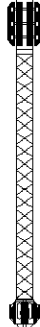
Compact Induction
MAI-A.A 188 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Compact Induction
MAI-A.A 188 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in



Total Length: 62.84 ft Weight: 480.6 lb

Total Length: 62.84 ft Weight: 480.6 lb



3.34 ft RTAO - Array Ind. One Res Rt
3.34 ft RTAO - Array Ind. One Res Rt
0.23 ft SPCG - Spontaneous Potential
0.23 ft SPCG - Spontaneous Potential
Tool Zero (0.13ft from bottom)
Tool Zero (0.13ft from bottom)
-0.13 ft SMTU - DST Uphole Tension
-0.13 ft SMTU - DST Uphole Tension
All measurements relative to tool zero.
All measurements relative to tool zero.

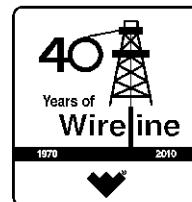
COMPANY SANDRIDGE EXPL. & PRODUCTION LLC
WELL YANKEE 1-27 SWD
FIELD BEALS FIELD AREA
PROVINCE/COUNTY COMANCHE
COUNTRY/STATE U.S.A. / KANSAS

Elevation Kelly Bushing	1854.00	feet	First Reading	6191.00	feet
Elevation Drill Floor	1852.00	feet	Depth Driller	6200.00	feet
Elevation Ground Level	1838.00	feet	Depth Logger	6194.00	feet

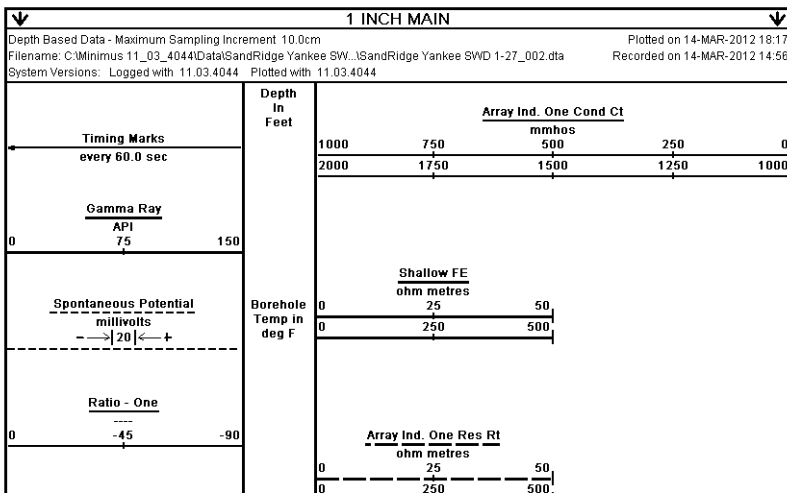


Weatherford

ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG



Weatherford		ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG	
COMPANY SANDRIDGE EXPL. & PRODUCTION LLC			
WELL YANKEE 1-27 SWD			
FIELD BEALS FIELD AREA			
PROVINCE/COUNTY COMANCHE			
COUNTRY/STATE U.S.A. / KANSAS			
LOCATION 406' FSL & 261' F.W.L. SW/4			
SEC 27	TWP 33S	R6E	Other Services
Well Number 15-003-21026	11W	IMPDIMON	MML
Log Measured From 1391			
Permanent Datum O.L. Elevation 1838 feet			
Drilling Measured From 1391			
Date 14-MAR-2012	Elevations: 1854.00 1852.00 1838.00		
Run Number ONE	Depth Driller 6200.00	feet	
Depth Logger 6194.00	feet		
First Reading 6191.00	feet		
Last Reading 615.00	feet		
Casing Driller 618.00	feet		
Casing Logger 615.00	feet		
Bit Size 8.750	inches		
Fluid Type CHEMICAL	48.00	CP	
Density/Viscosity 9.50	lb/USg	6.80	micronin
PH/Fluid Loss 9.50			
Sample Source FLOWLINE			
Em @ Measured Temp 0.62 @ 84.0	ohm-m		
Em @ Measured Temp 0.50 @ 84.0	ohm-m		
Em @ Measured Temp 0.74 @ 84.0	ohm-m		
Source Rmt/Fmc CALC	CALC		
Fm @ BHT 0.41 @ 28.0	ohm-m		
Time Since Circulation 5 HOURS	deg F		
Max Recorded Temp 128.00	deg F		
Equipment Name COMPACT	LB		
Equipment Base 13006			
Recorded By R. HOFFMAN			
Witnessed By JIMMY DUREN			
5.01.206# 3534716			
			KATHY GENTRY 1817206



DST Up-hole Tension
pounds
5000 0

Replay
Scale
1:600

600
Casing
Shoe

83°

700

84°

800

85°

900

85°

1000

87°

1100

88°

1200

Array Ind. One Res Rt

Ratio - One

Shallow FE

Spontaneous Potential

Gamma Ray

DST Up-hole Tension

1300

89°

1400

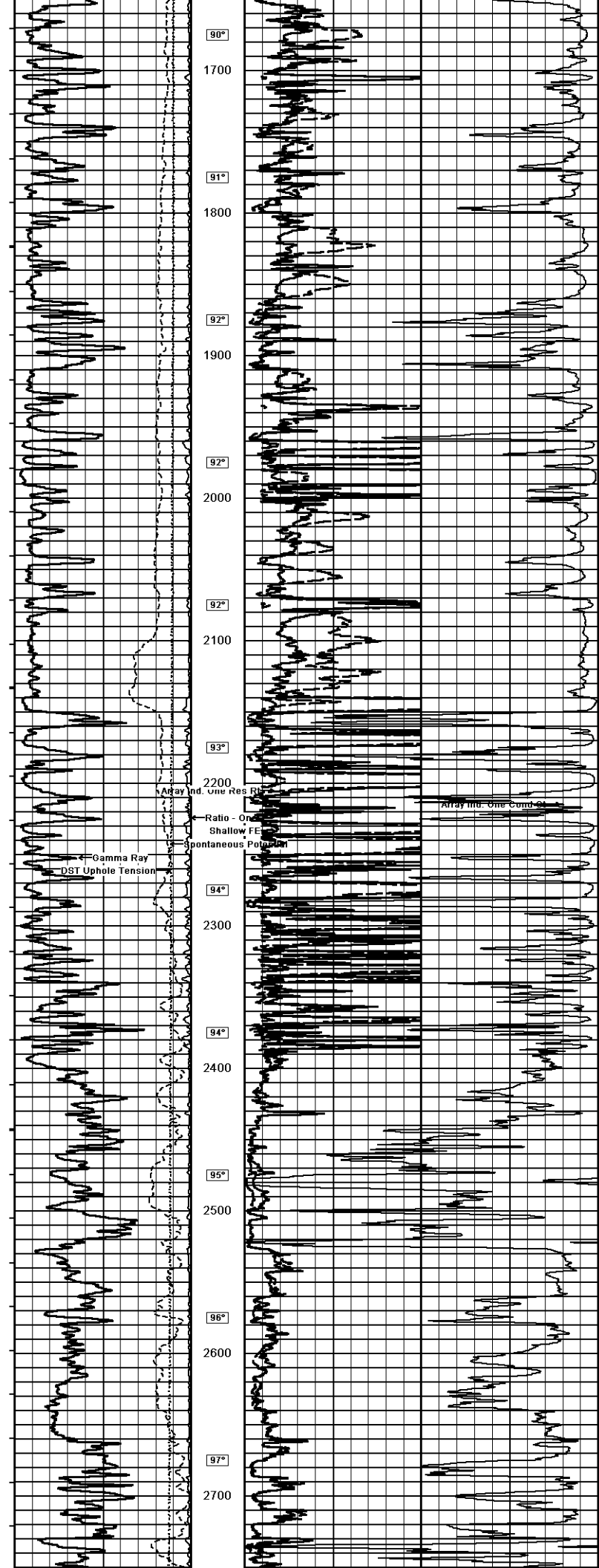
90°

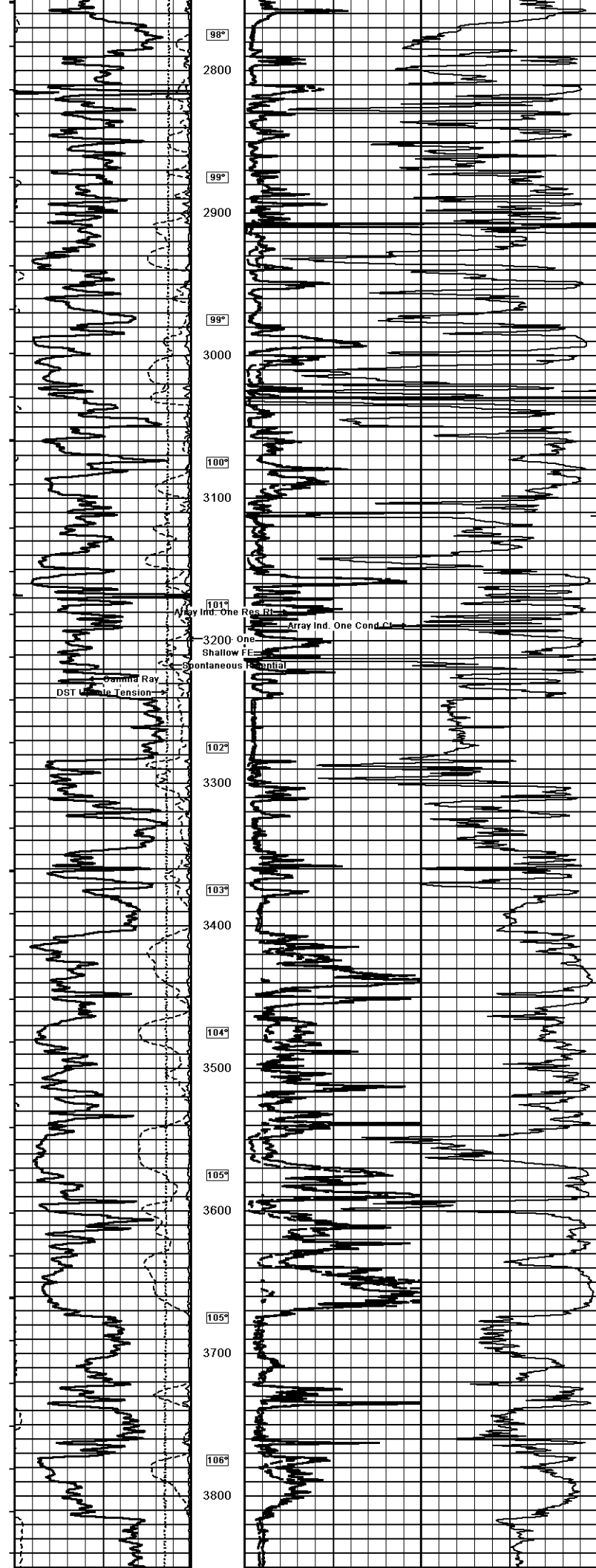
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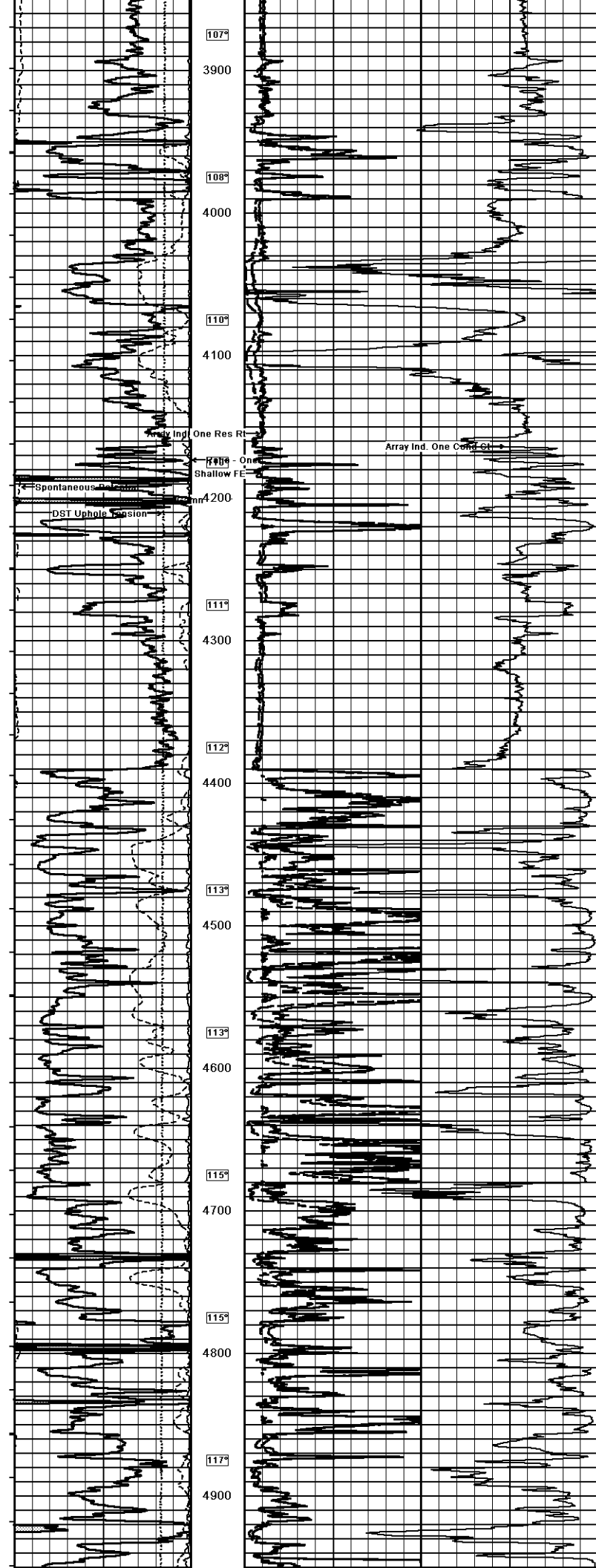
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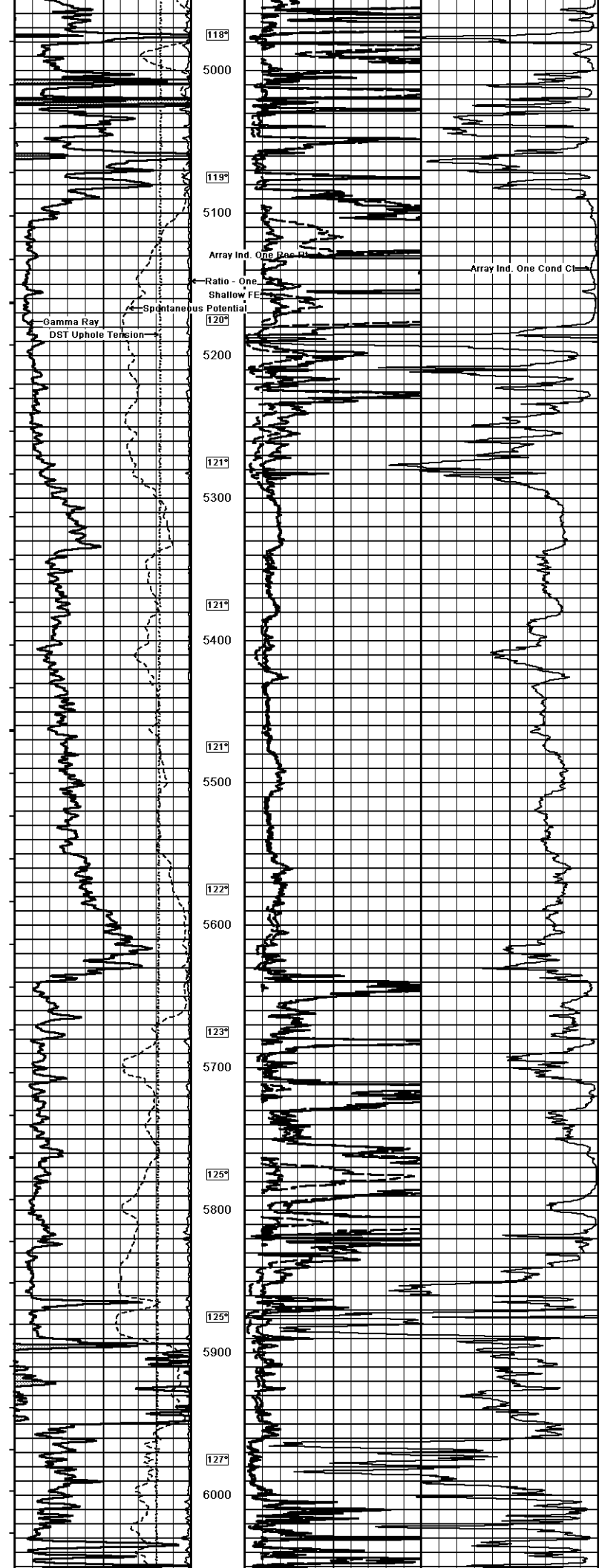
1600

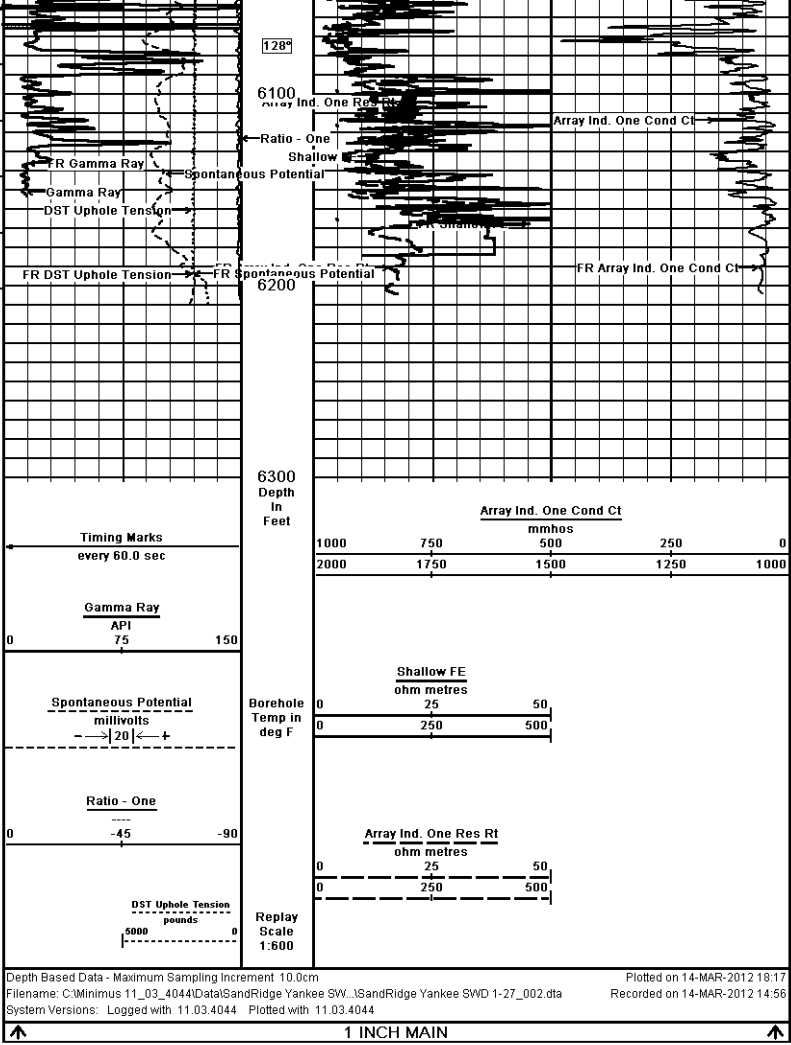
Array Ind. One Cond Ct











COMPANY		SANDRIDGE EXPL. & PRODUCTION LLC			
WELL		YANKEE 1-27 SWD			
FIELD		BEALS FIELD AREA			
PROVINCE/COUNTY		COMANCHE			
COUNTRY/STATE		U.S.A. / KANSAS			
Elevation Kelly Bushing	1854.00	feet	First Reading	6191.00	feet
Elevation Drill Floor	1852.00	feet	Depth Driller	6200.00	feet
Elevation Ground Level	1838.00	feet	Depth Logger	6194.00	feet
			ARRAY INDUCTION		
			SHALLOW FOCUSED		
			ELECTRIC LOG		
					