



Weatherford[®]

**ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG**

COMPANY	O'BRIEN ENERGY RESOURCES CORP.		
WELL	RICKERS RANCH #8-17		
FIELD	ANGELL SOUTH		
PROVINCE/COUNTY	MEADE		
COUNTRY/STATE	U.S.A. / KANSAS		
LOCATION	1980' FSL & 1780' FEL		
SEC	TWP	RGE	Other Services
17	33S	29W	MPD/MDN
API Number	15-119-21349		MML
Permit Number			
Permanent Datum GL, Elevation	2663 feet		Elevations:
Log Measured From	KB		2675.00
Drilling Measured From	KB@12FEET		DF 2673.00
			GL 2663.00
Date	13-SEP-2013		
Run Number	ONE		
Service Order	3541082		
Depth Driller	6315.00 feet		
Depth Logger	6315.00 feet		
First Reading	6312.00 feet		
Last Reading	1491.00 feet		
Casing Driller	1475.00 feet		
Casing Logger	1491.00 feet		
Bit Size	7.875 inches		
Hole Fluid Type	CHEMICAL		
Density / Viscosity	9.20 lb/USg	53.00 CP	
PH / Fluid Loss	9.50	8.80 ml/30Min	
Sample Source	MUDDPIT		
Rm @ Measured Temp	1.30 @ 93.0	ohm-m	
Rmf @ Measured Temp	1.04 @ 93.0	ohm-m	
Rmc @ Measured Temp	1.56 @ 93.0	ohm-m	
Source Rmf / Rmc	CALC	CALC	
Rm @ BHT	0.97 @125.0	ohm-m	
Time Since Circulation	5 HOURS		
Max Recorded Temp	125.00	deg F	
Equipment / Base	13096	LIB	
Recorded By	ROB HOFFMAN		
Witnessed By	PETER DEBENHAM		
JOB #	LB13-258		

BOREHOLE RECORD			Last Edited: 13-SEP-2013 21:17
Bit Size inches	Depth From feet	Depth To feet	
7.875	1475.00	6315.00	

CASING RECORD				
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	8.625	0.00	1475.00	24.00

REMARKS

- SOFTWARE ISSUE: WLS 13.05.9583.

- MCG, MML, MDN, MPD, MFE, MAI RUN IN COMBINATION.
 - HARDWARE: DUAL BOWSPRING USED ON MDN.
 0.5 INCH STANDOFF USED ON MFE.
 0.5 INCH STANDOFF USED ON MAI.

- 2.71 G/CC LIMESTONE DENSITY MATRIX USED TO CALCULATE POROSITY.

- BOREHOLE RUGOSITY, TIGHT PULLS, AND WASHOUTS WILL AFFECT DATA QUALITY.

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

- TOTAL HOLE VOLUME FROM TD TO SURFACE CASING: 1865 CU. FT.

- ANNULAR HOLE VOLUME WITH 4.5 INCH CASING FROM TD TO 3800 FEET: 605 CU. FT.

- RIG: DUKE #6

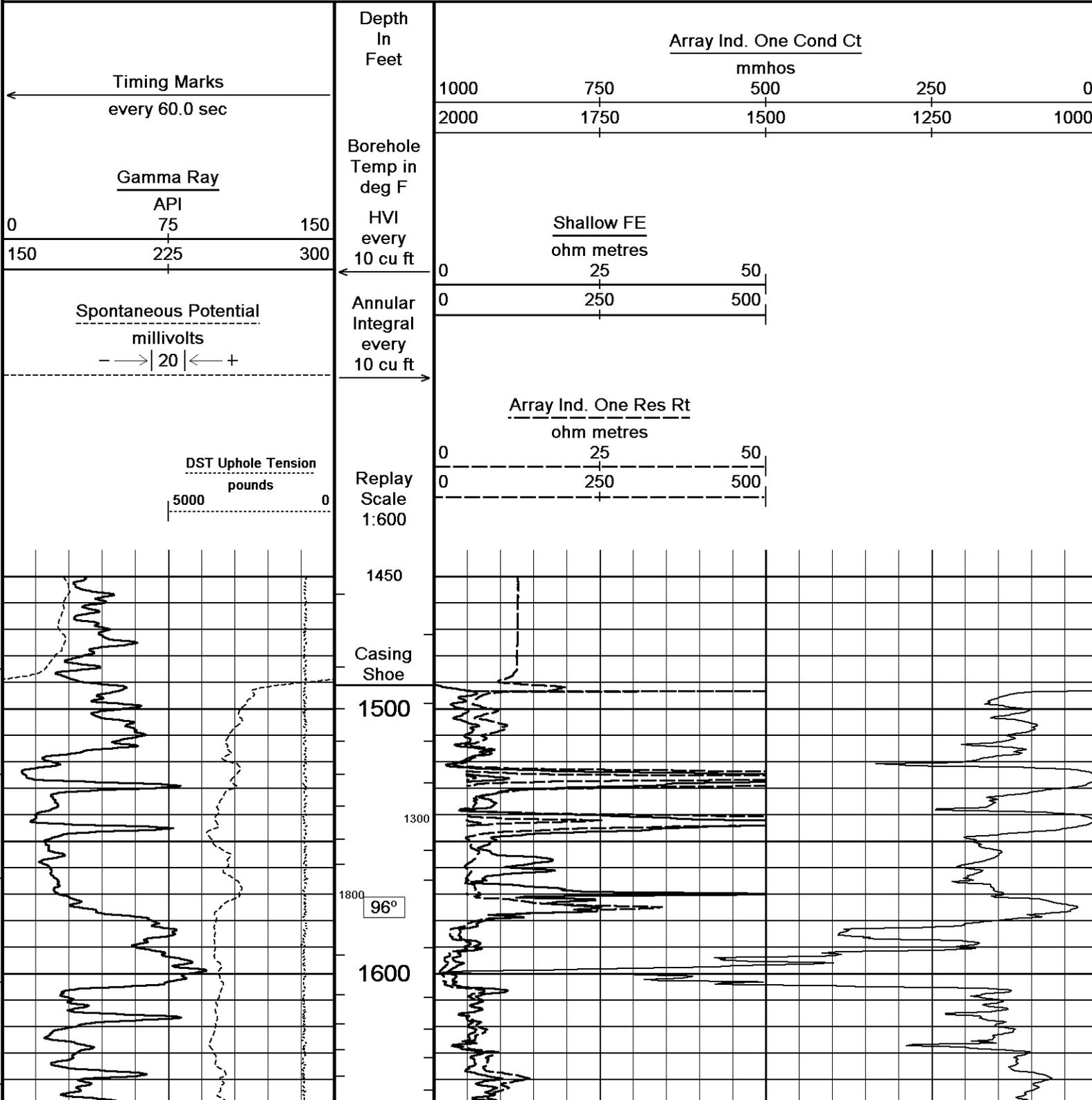
- ENGINEER: R. HOFFMAN

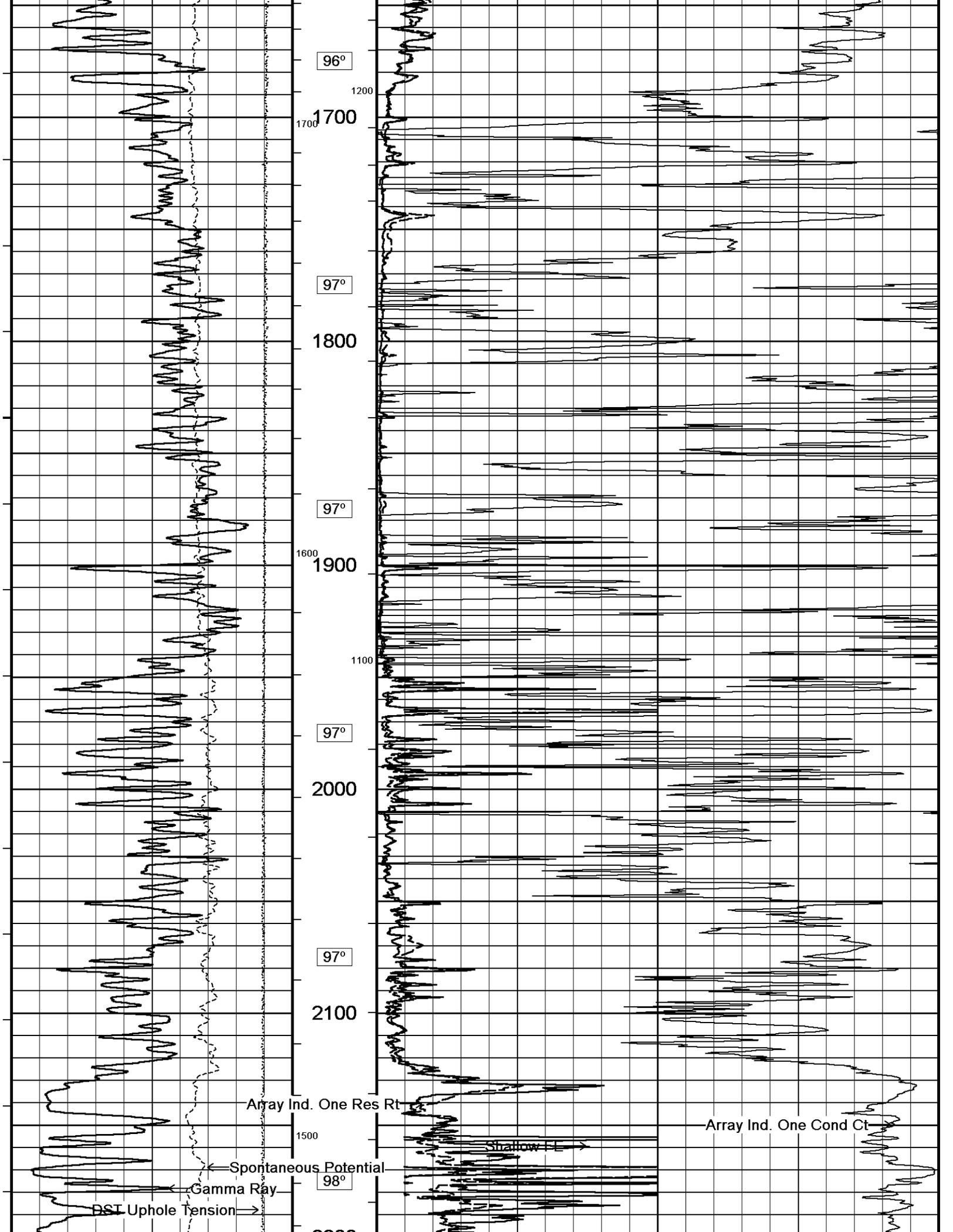
- OPERATOR(S): K. RINEHART, J. DUNLAP

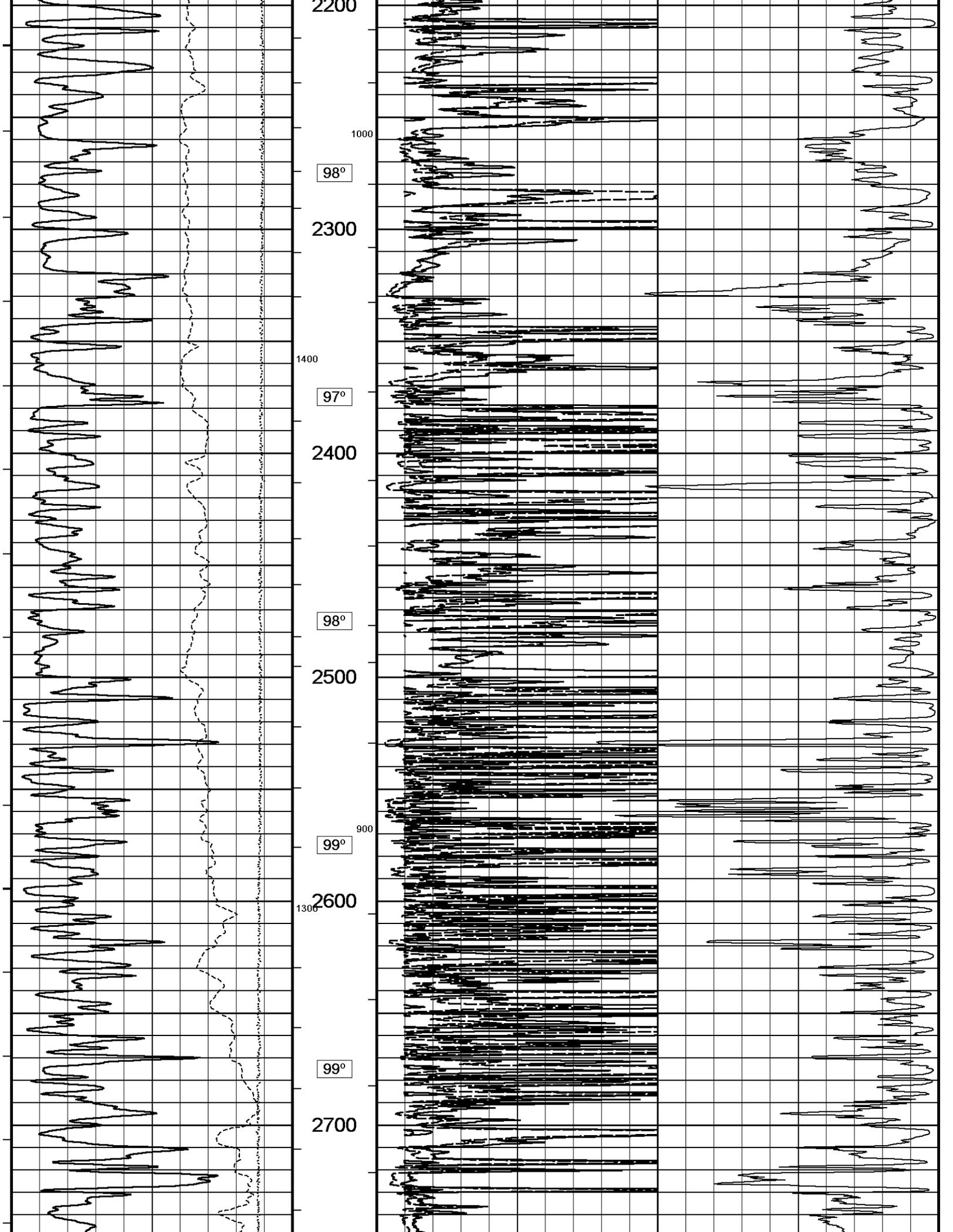
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

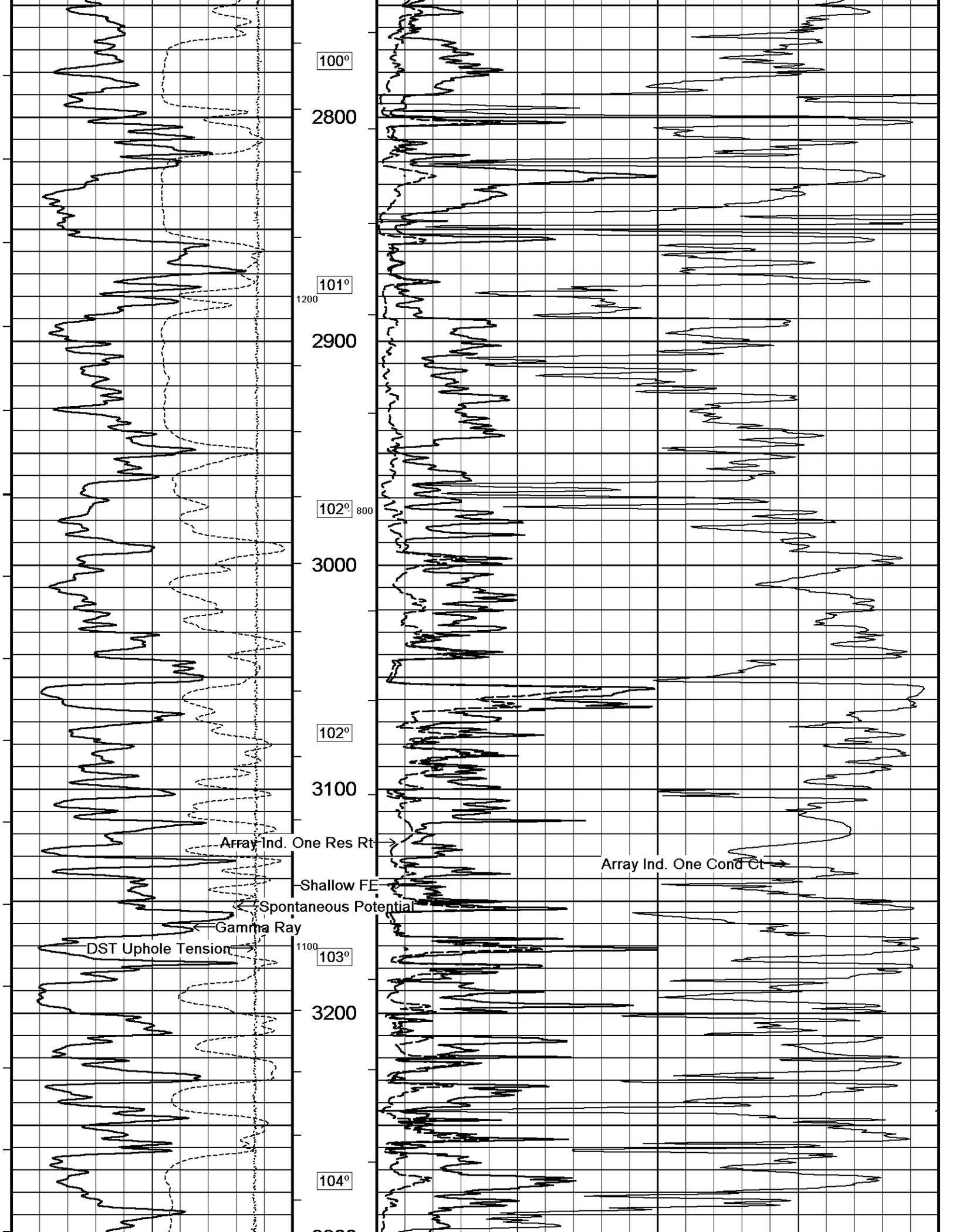
2 INCH MAIN

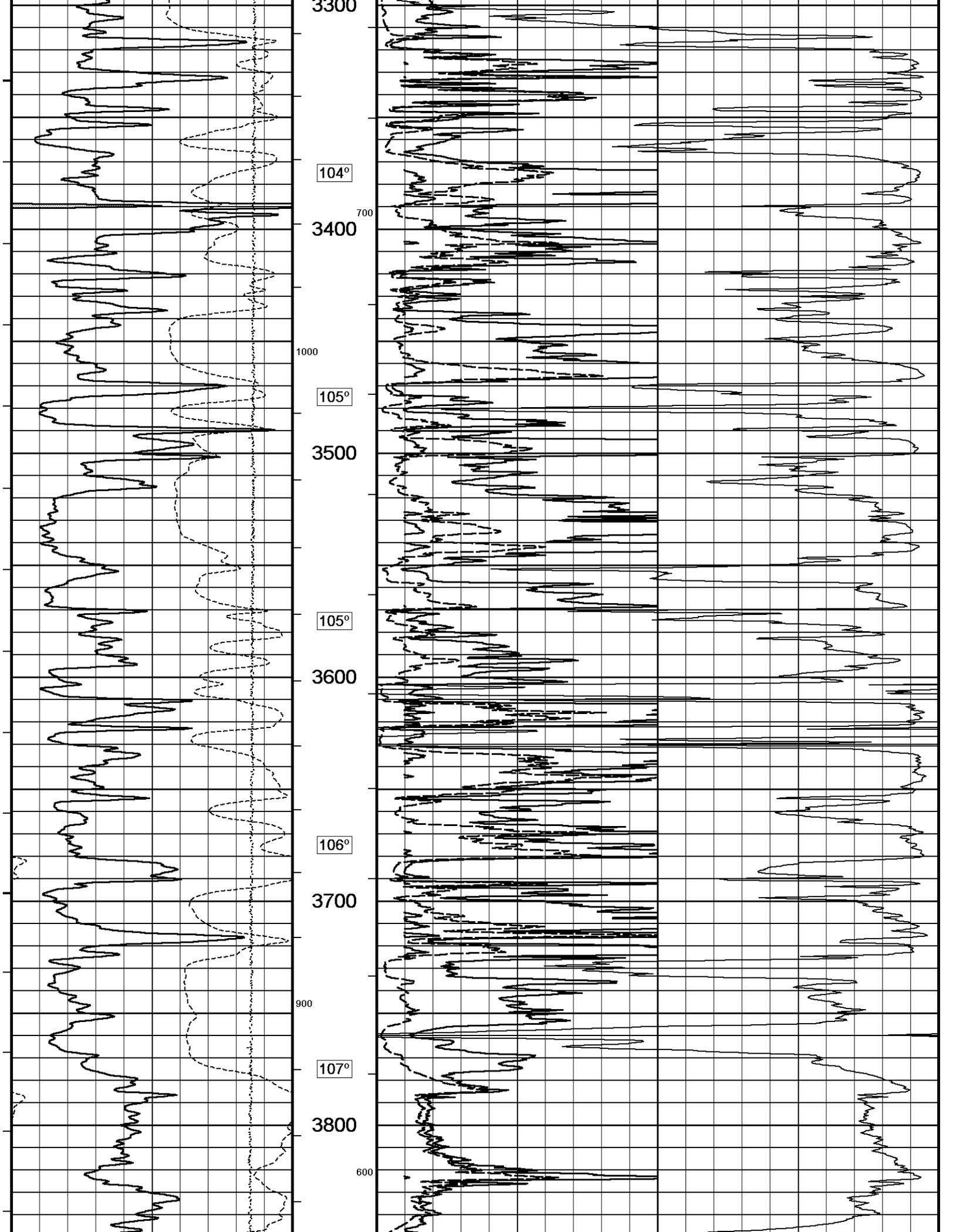
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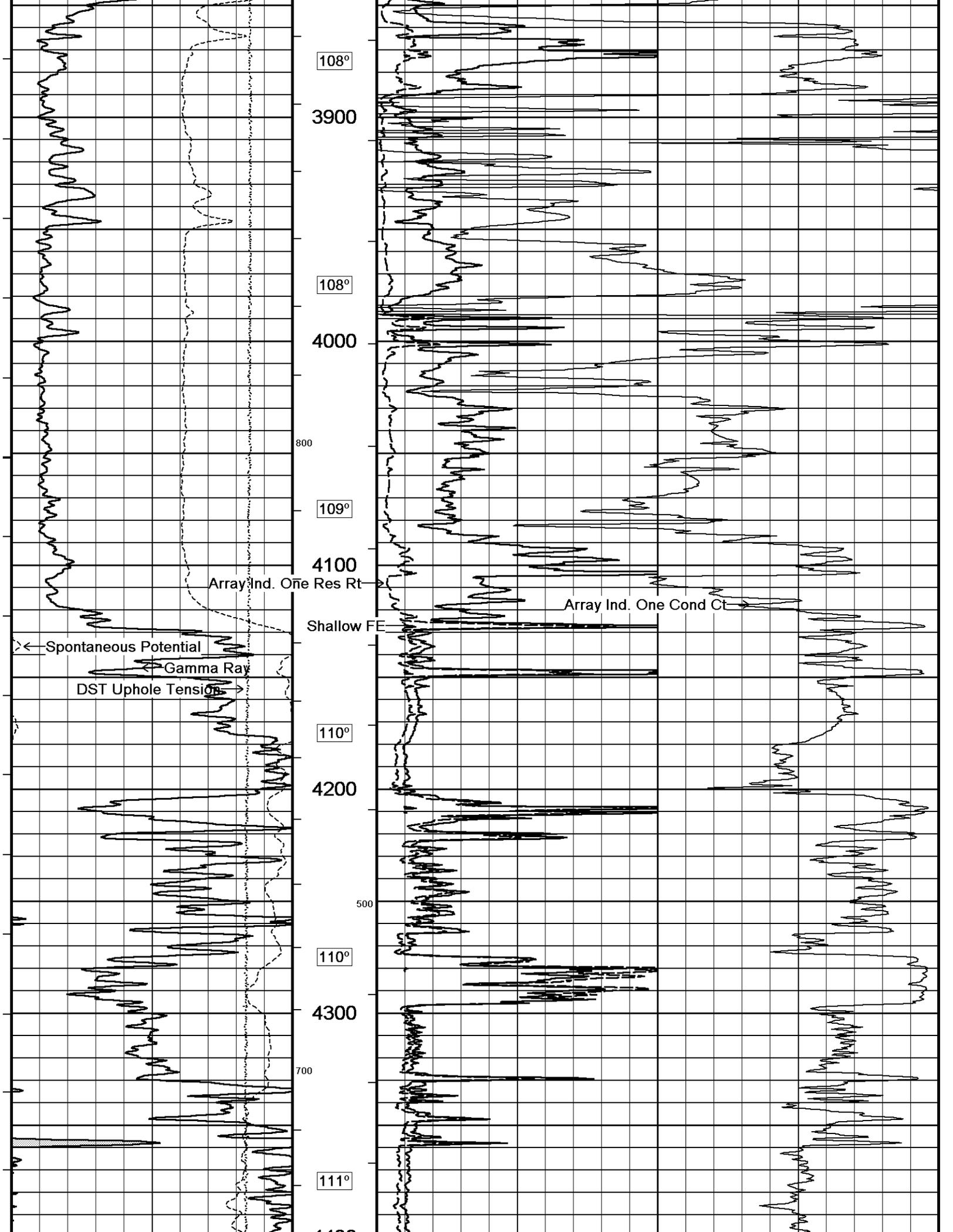


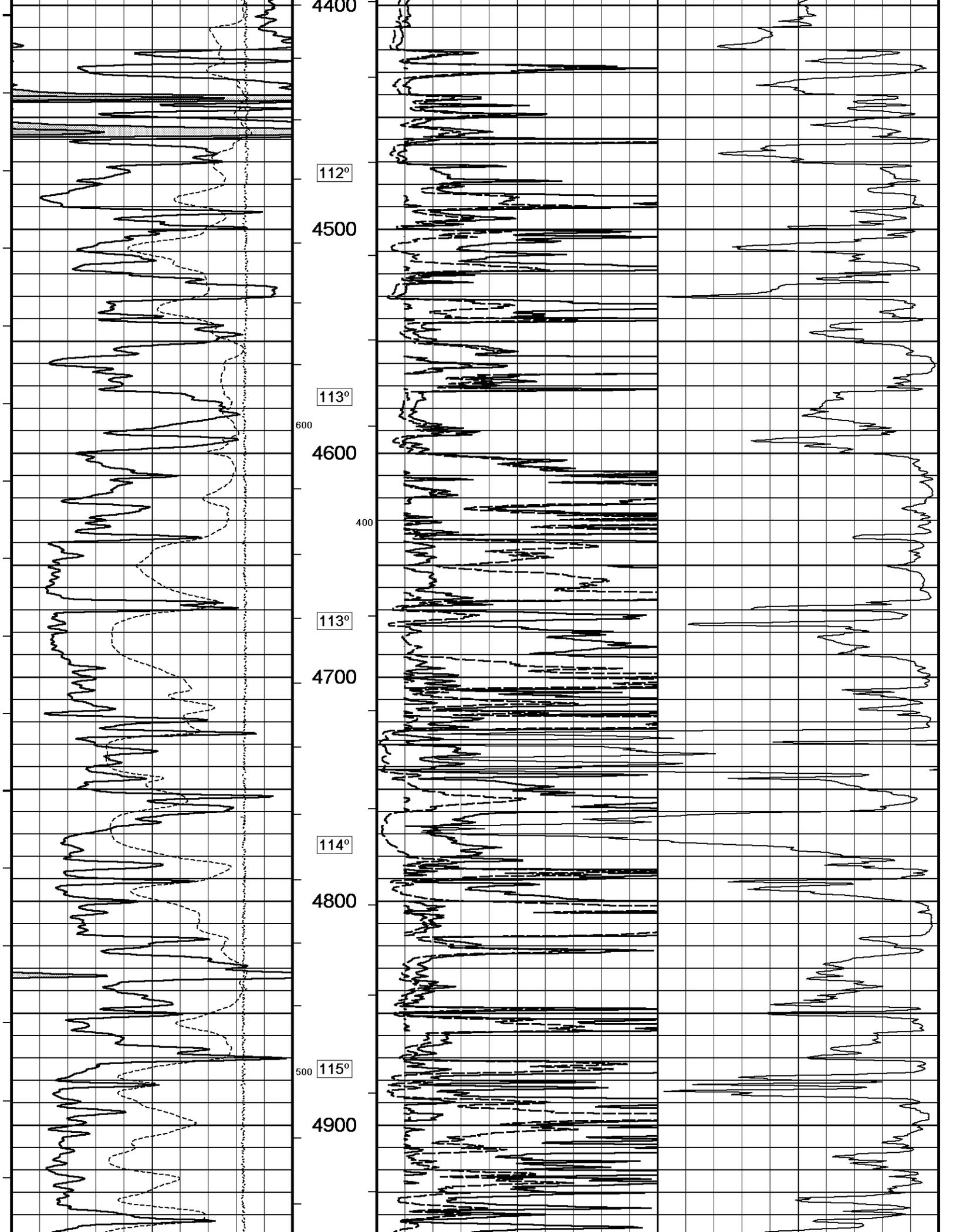


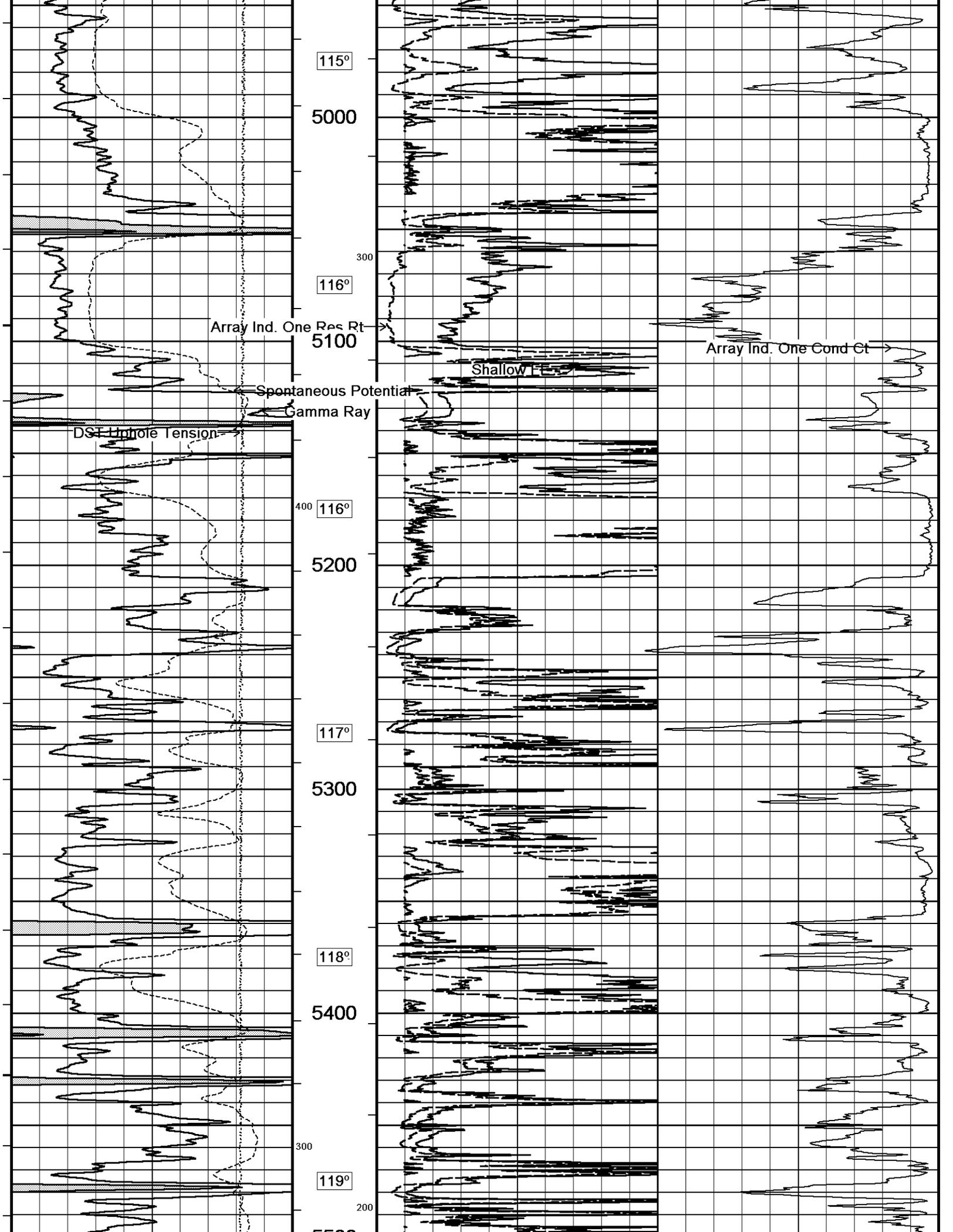


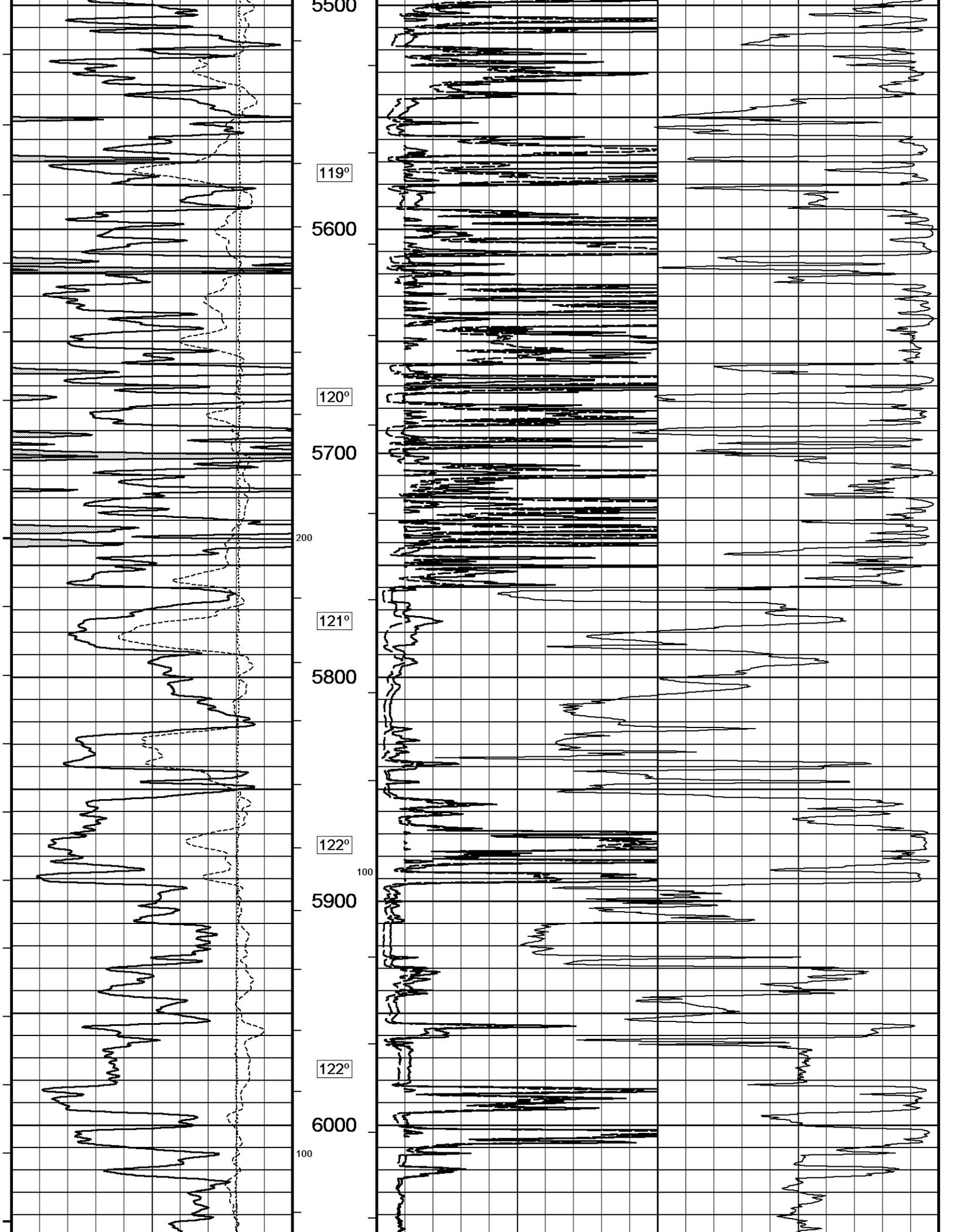


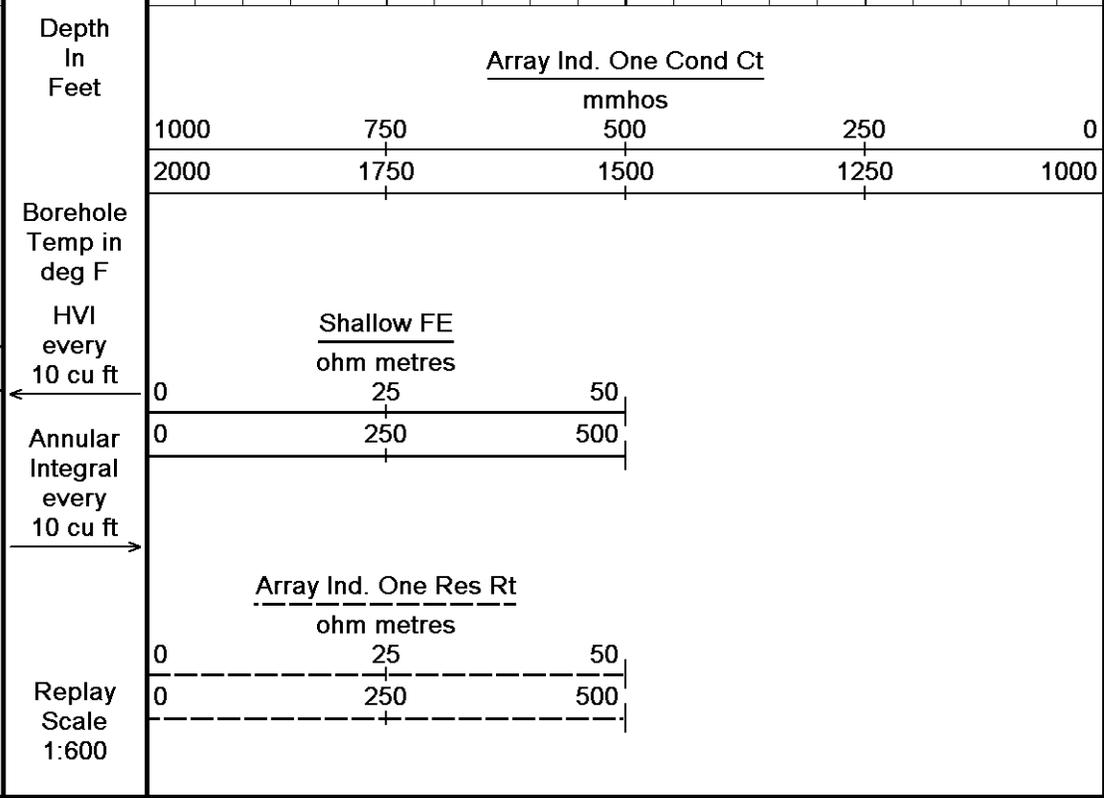
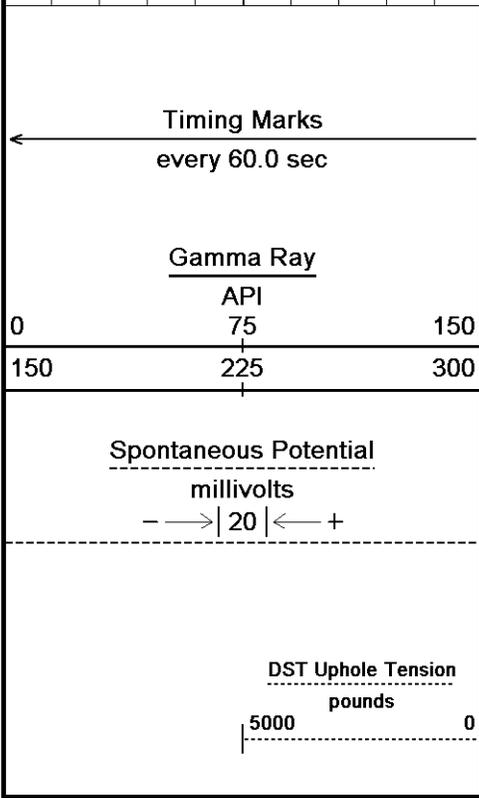
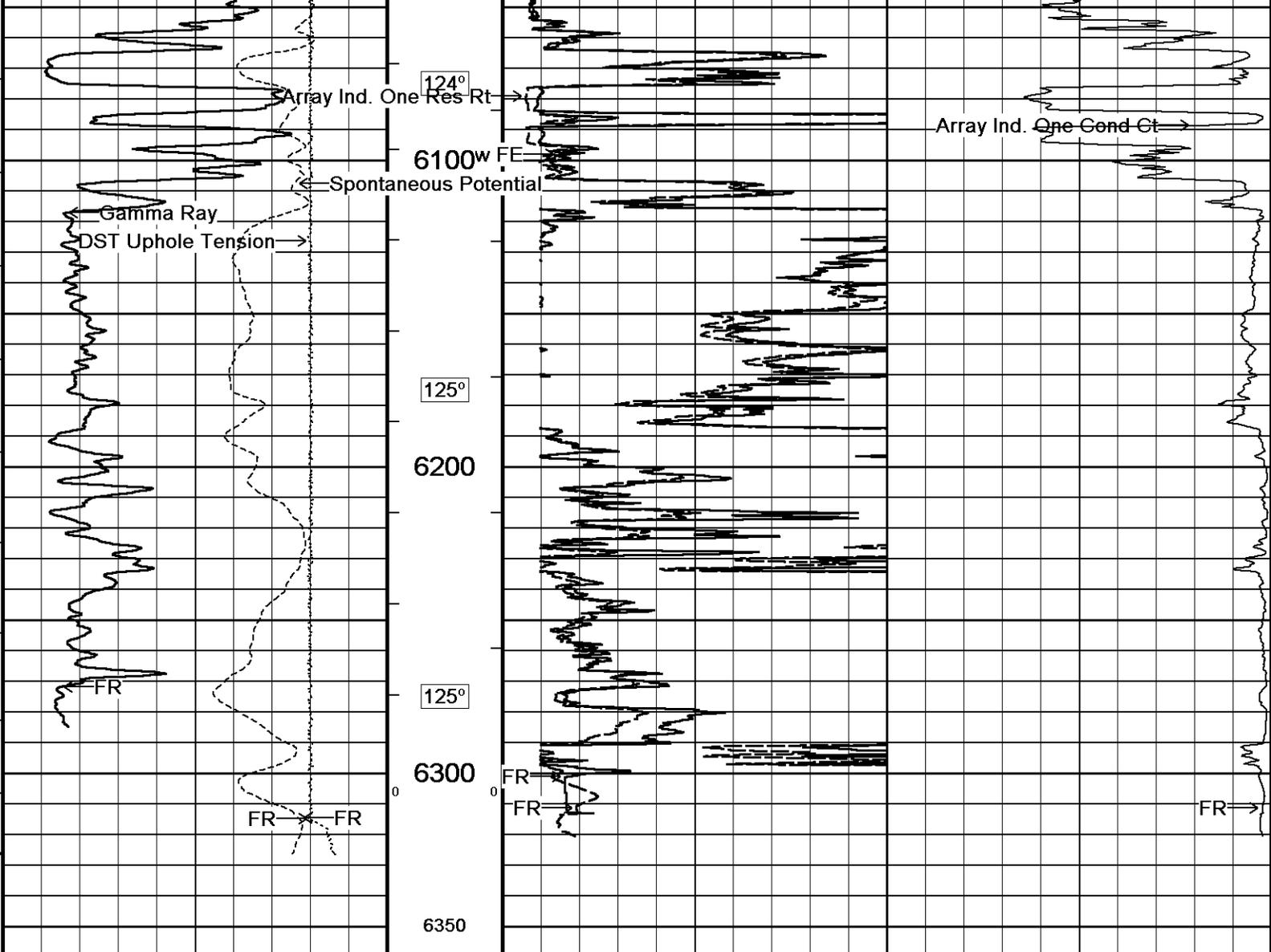












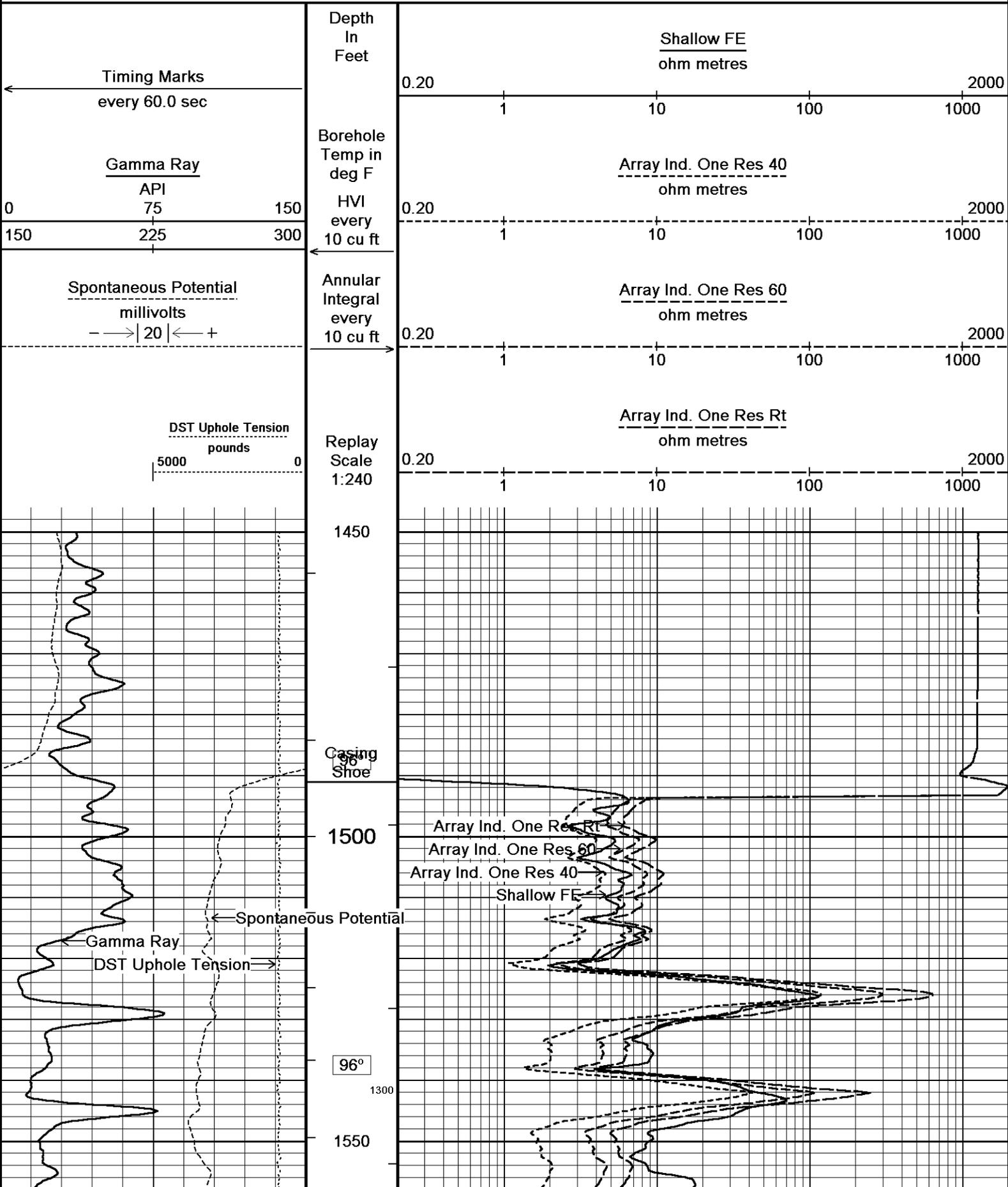
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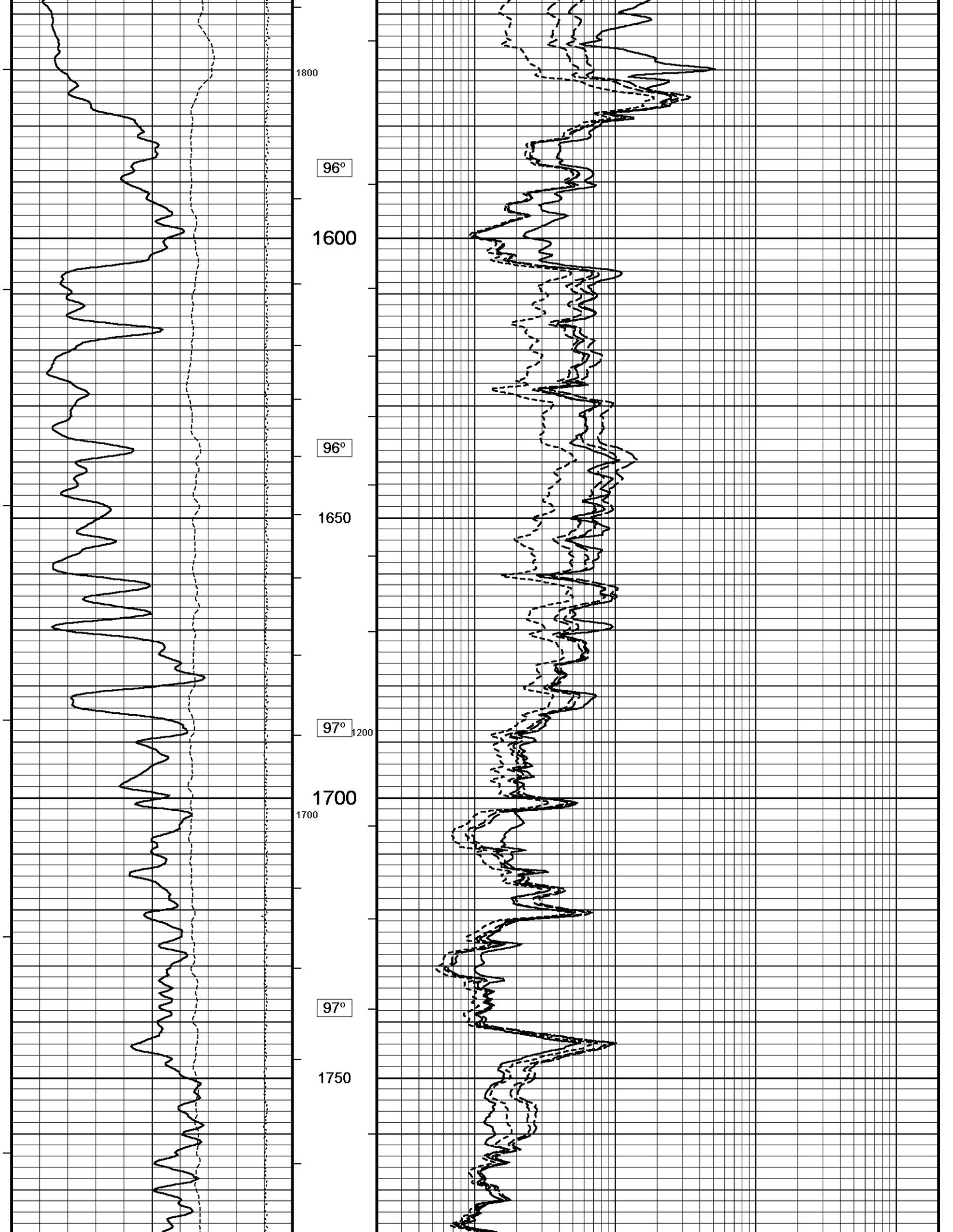
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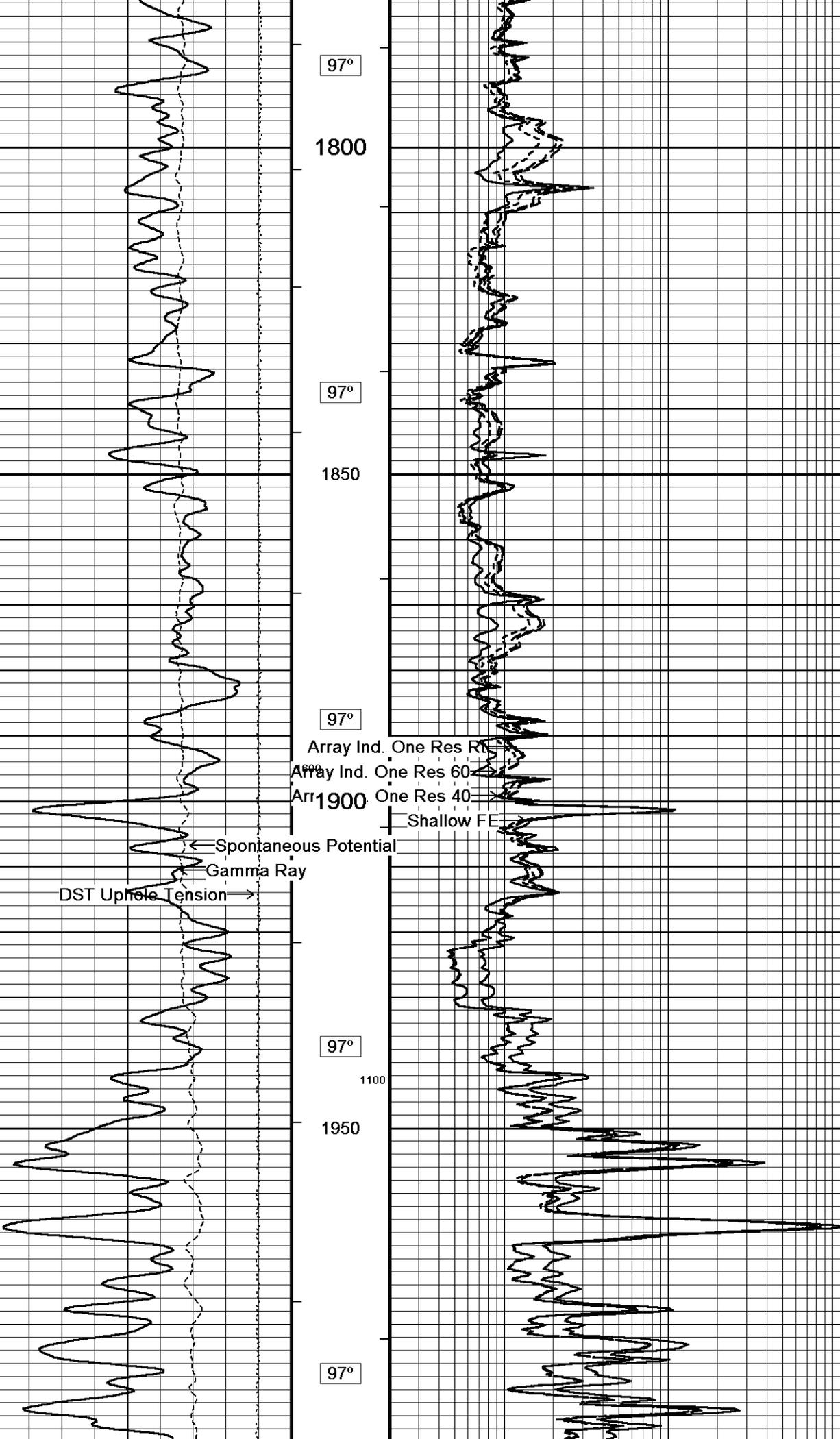
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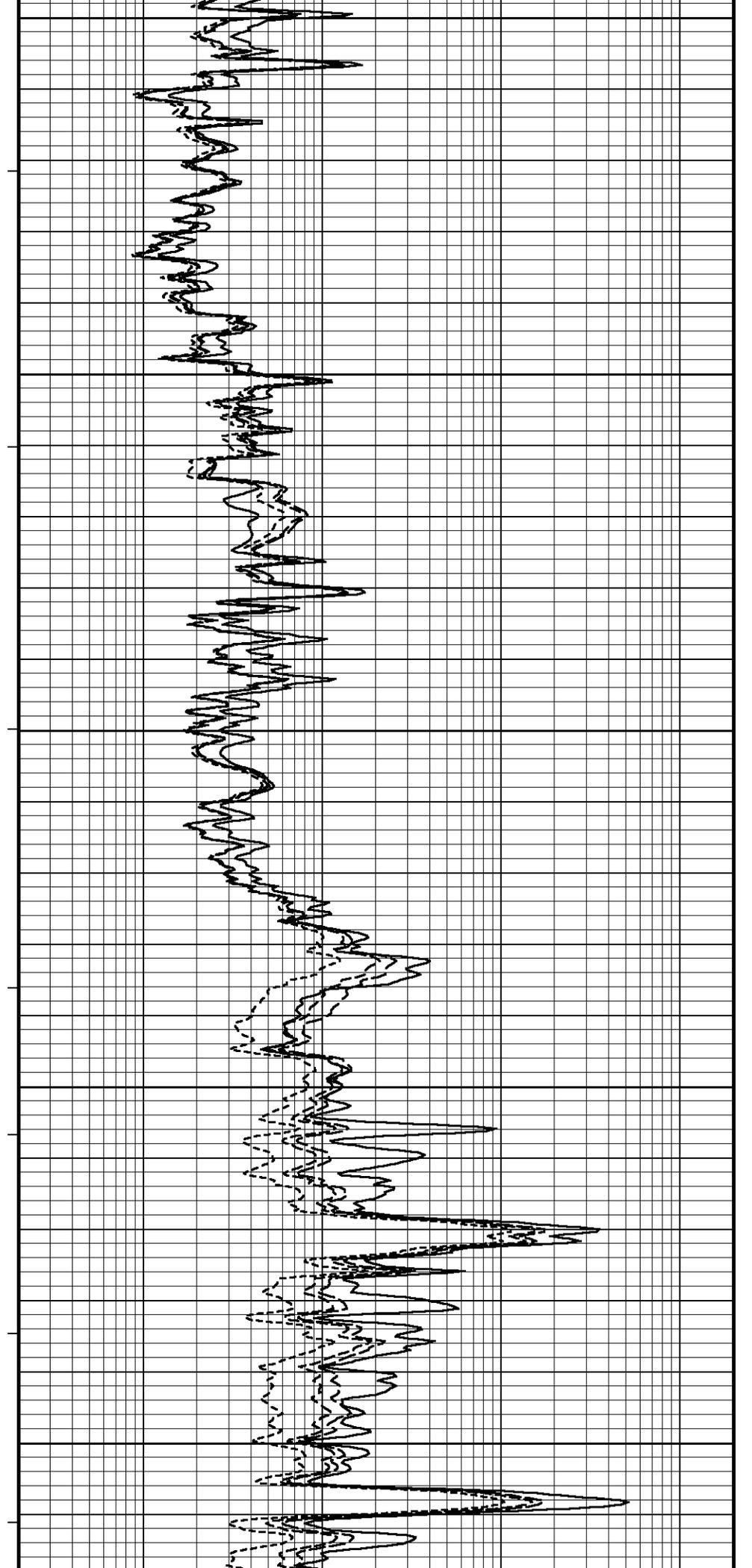
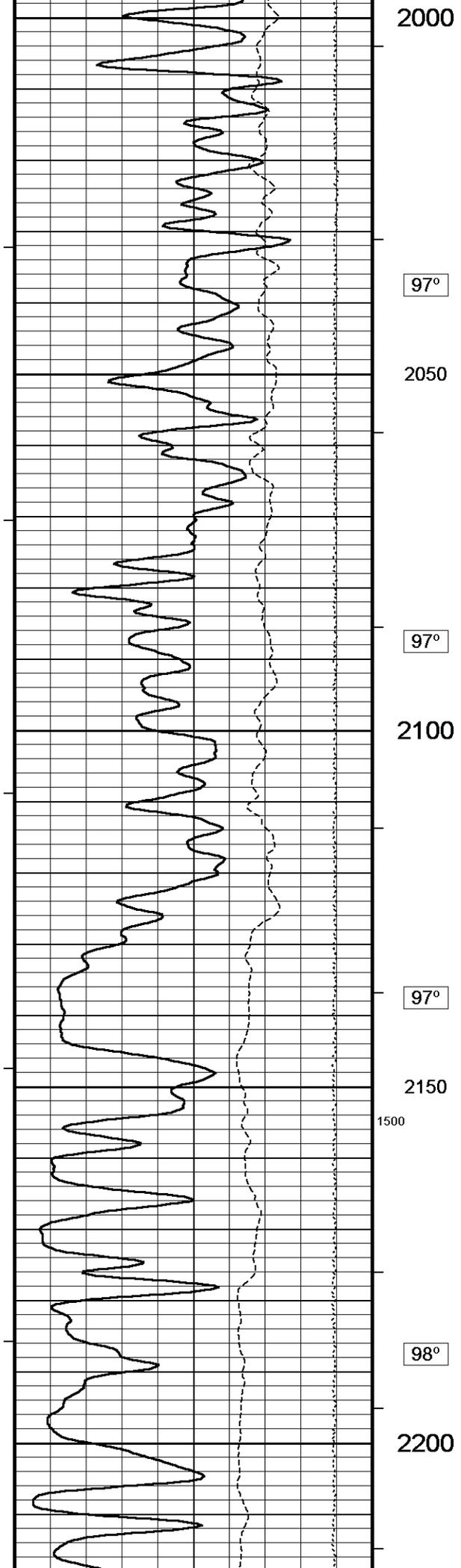
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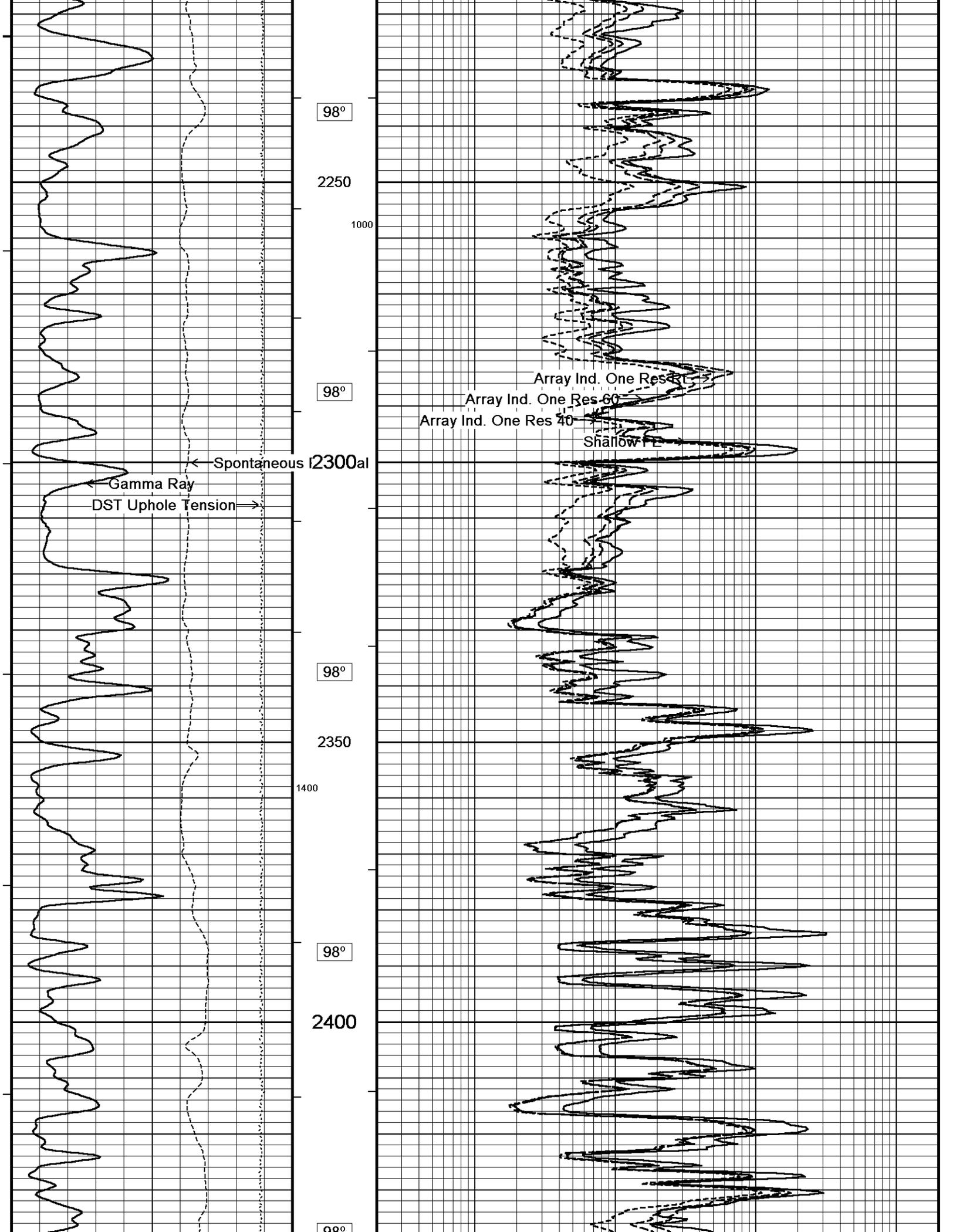
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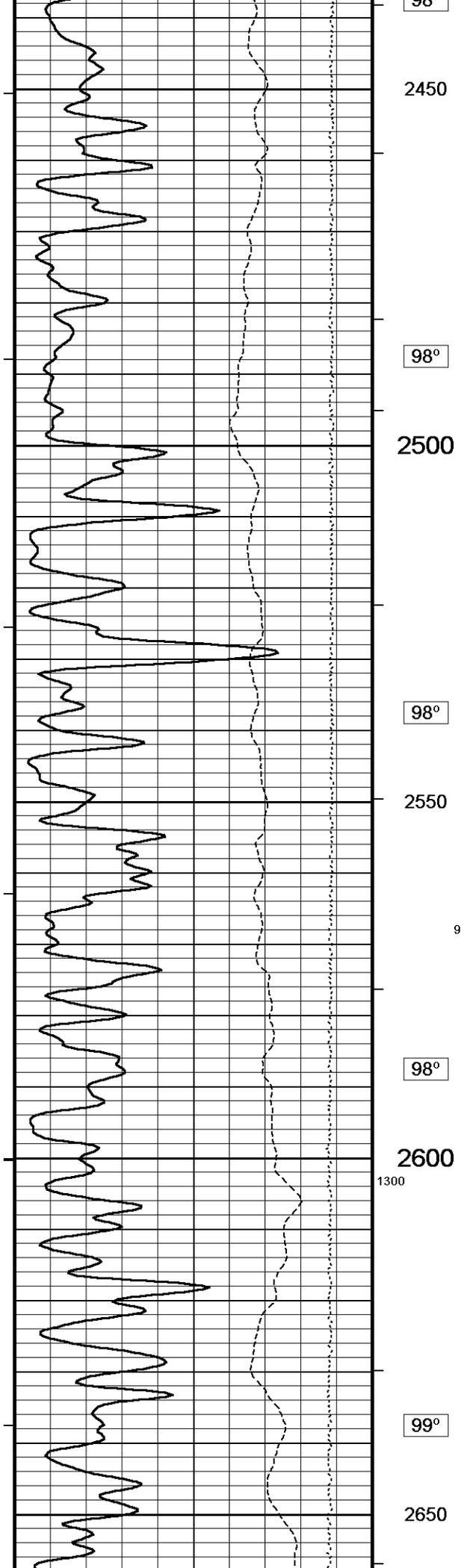












96

2450

98°

2500

98°

2550

900

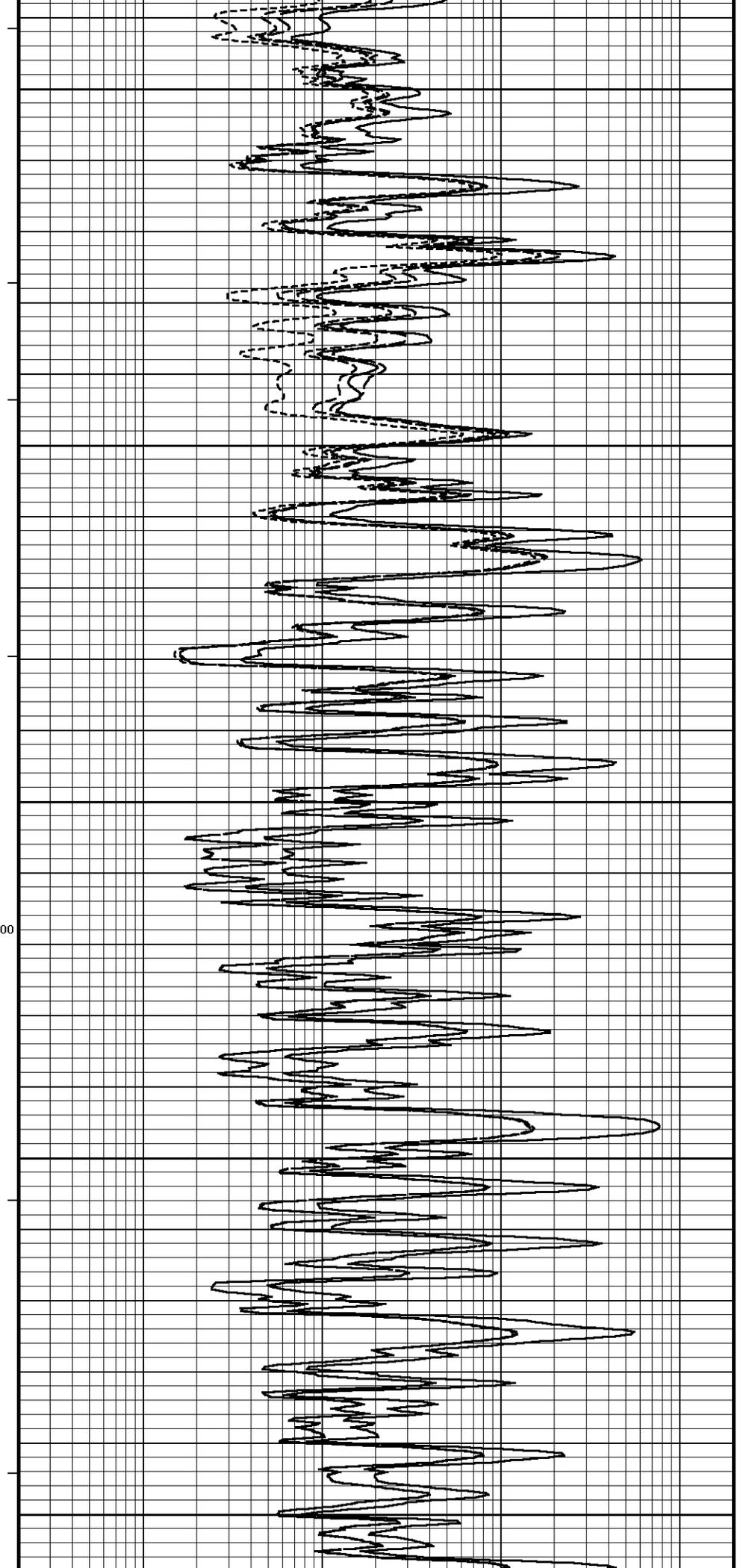
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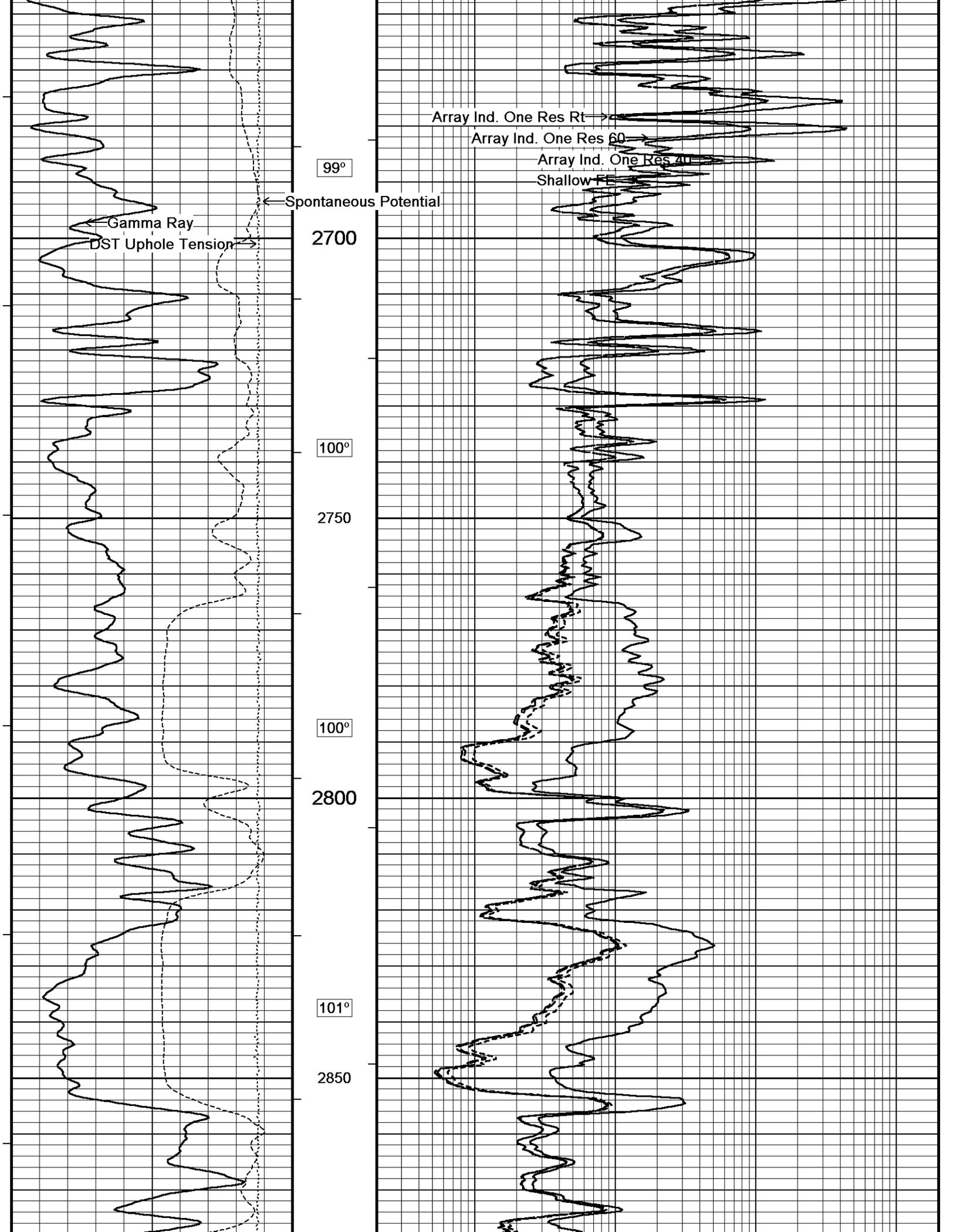
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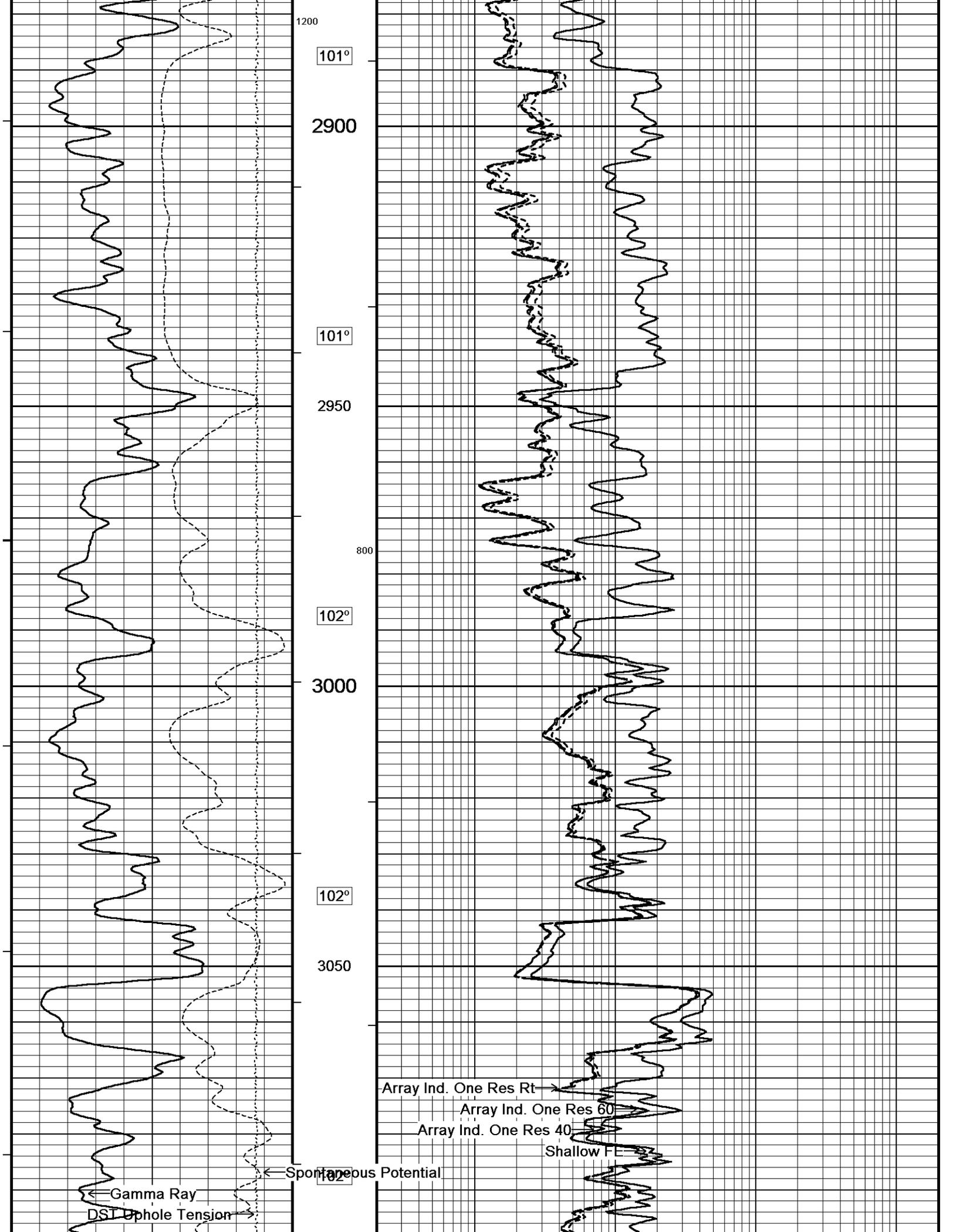
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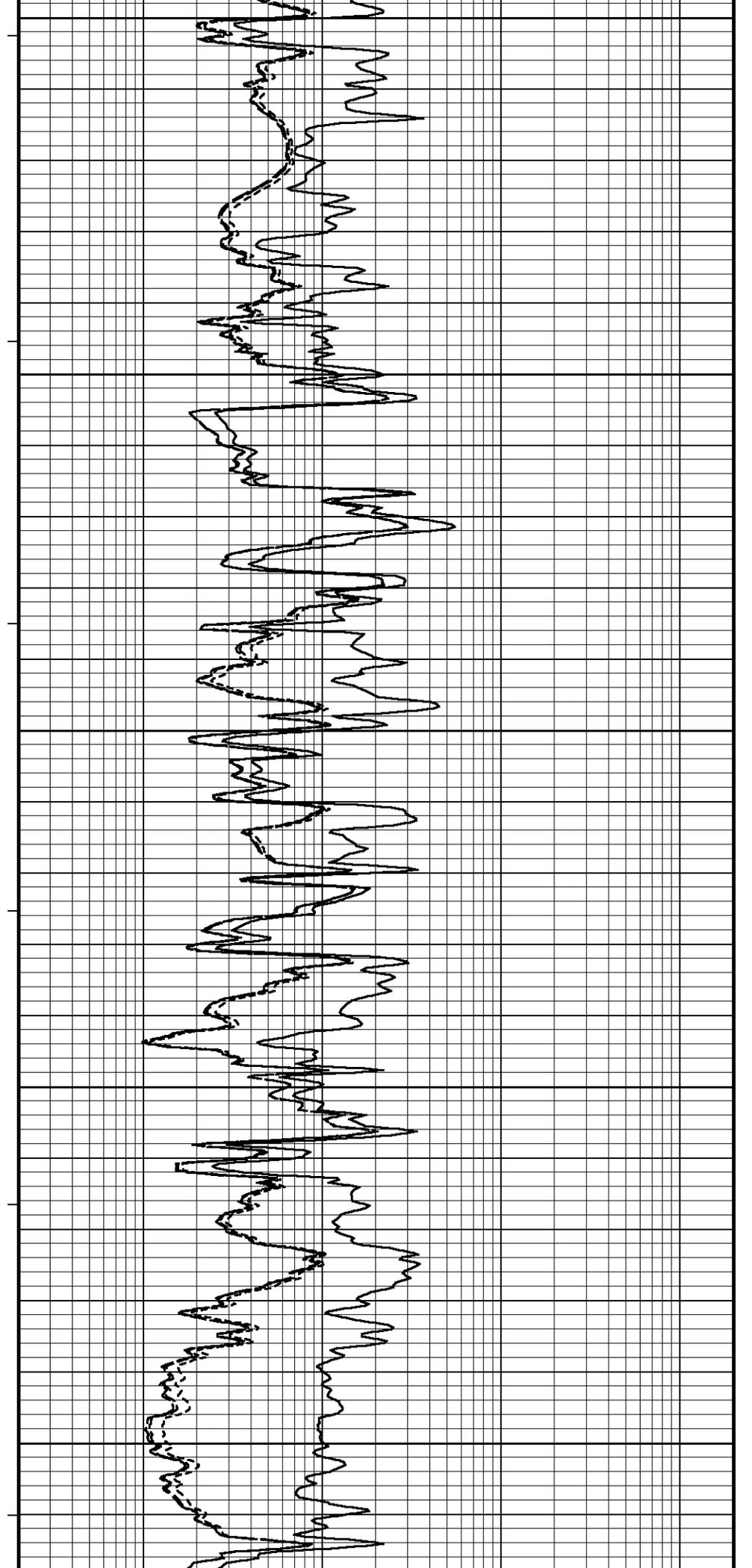
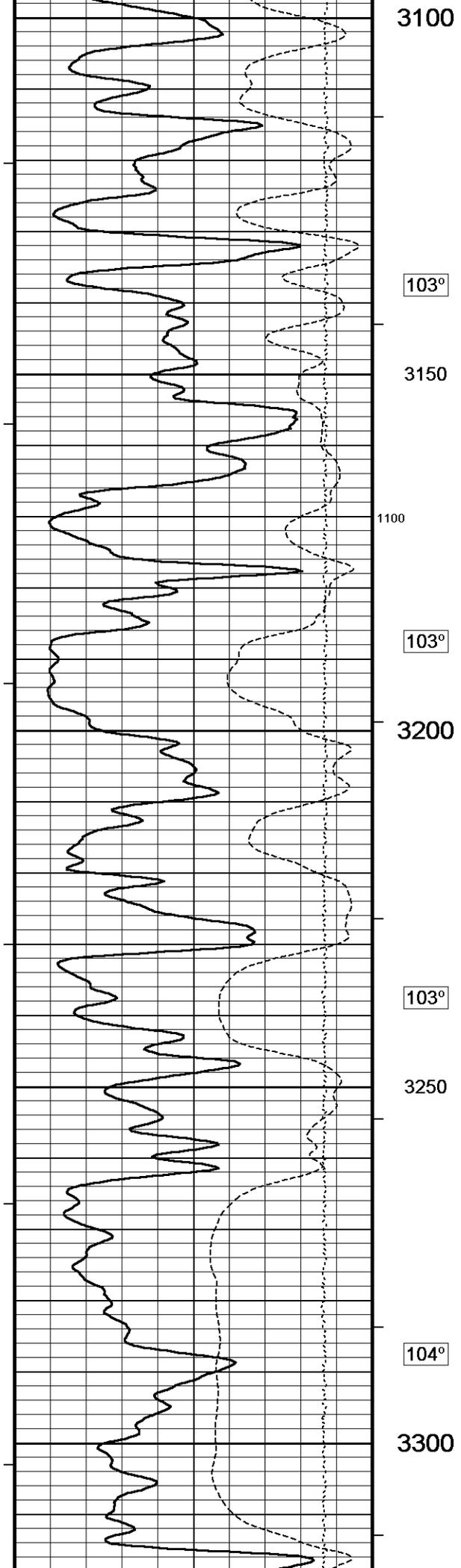
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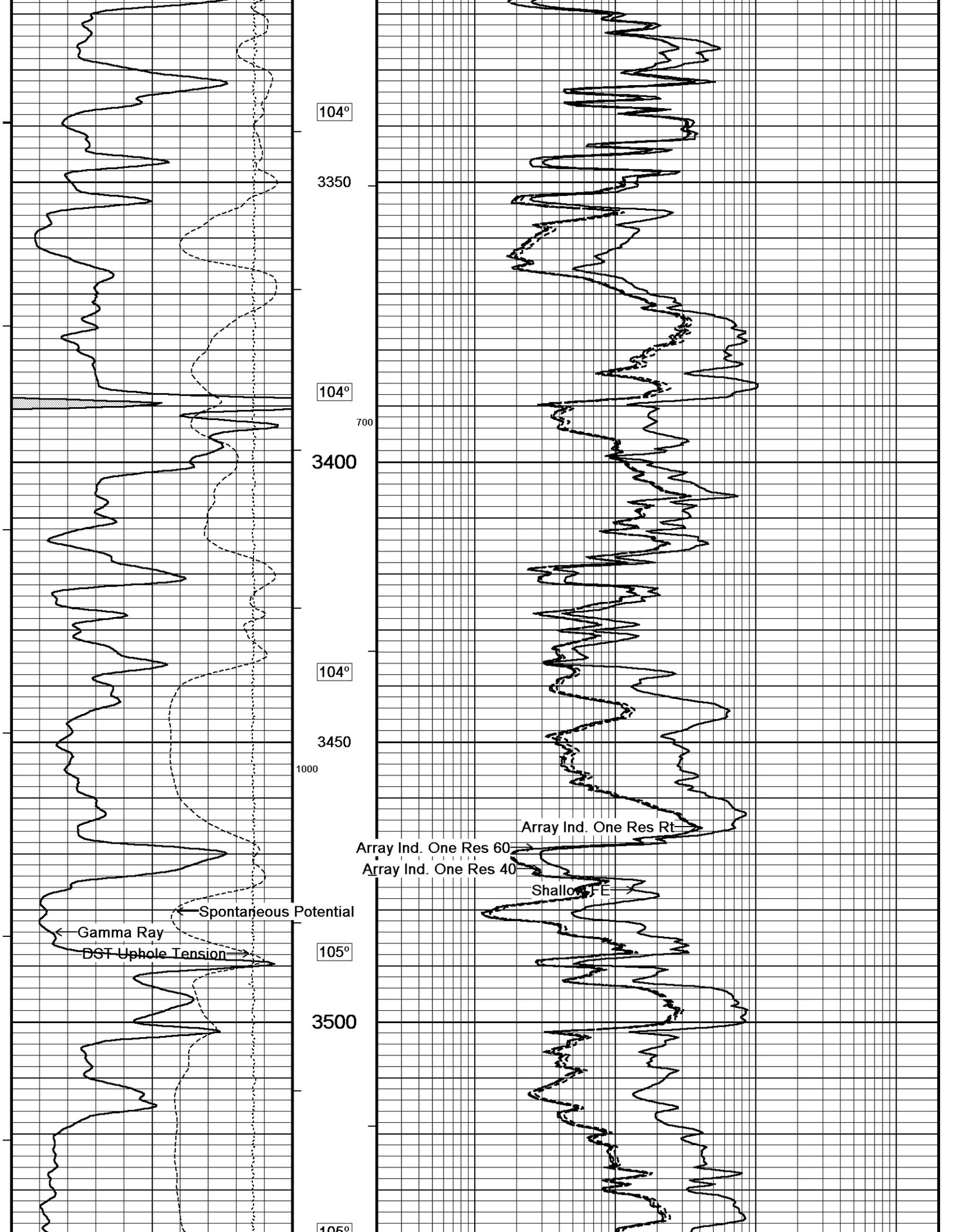
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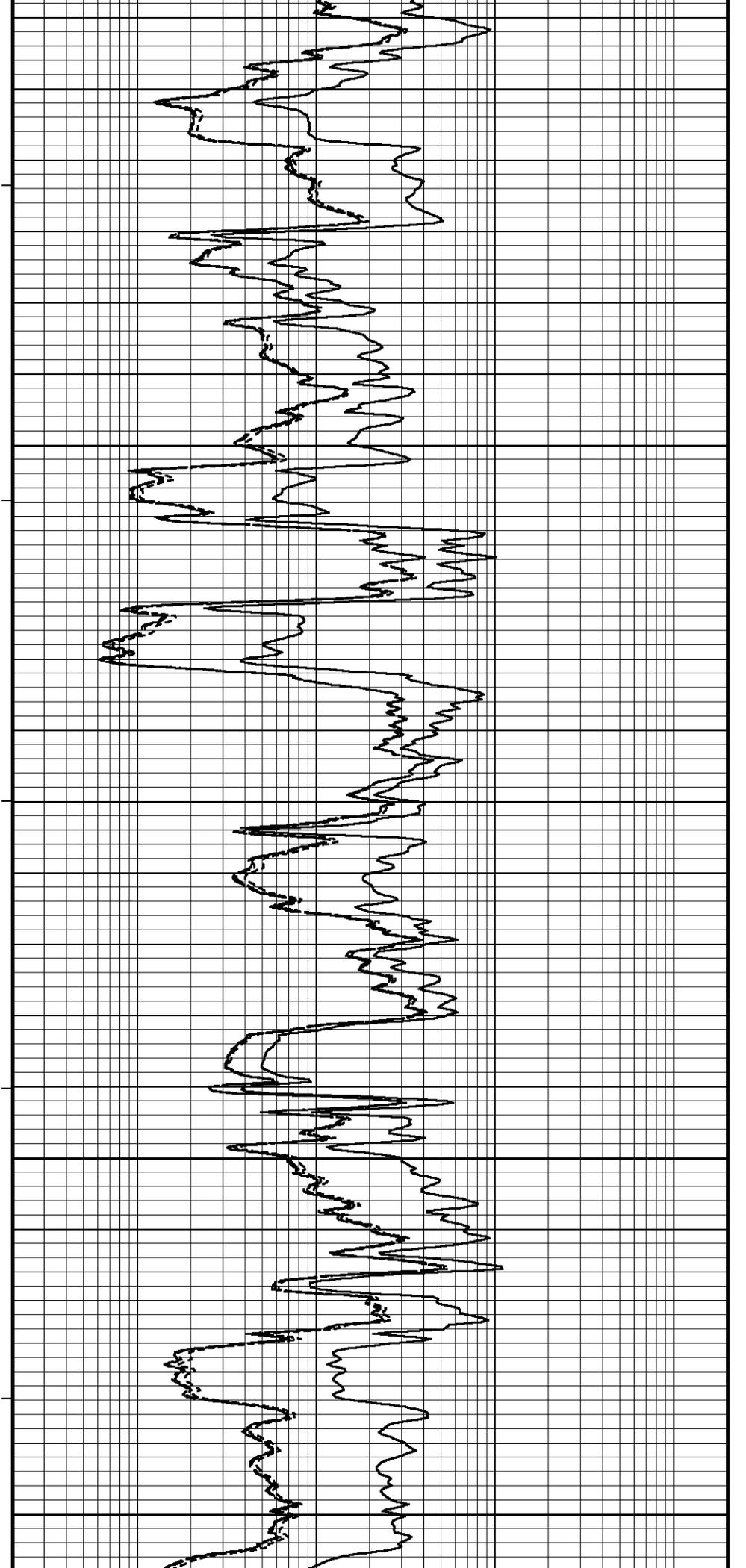
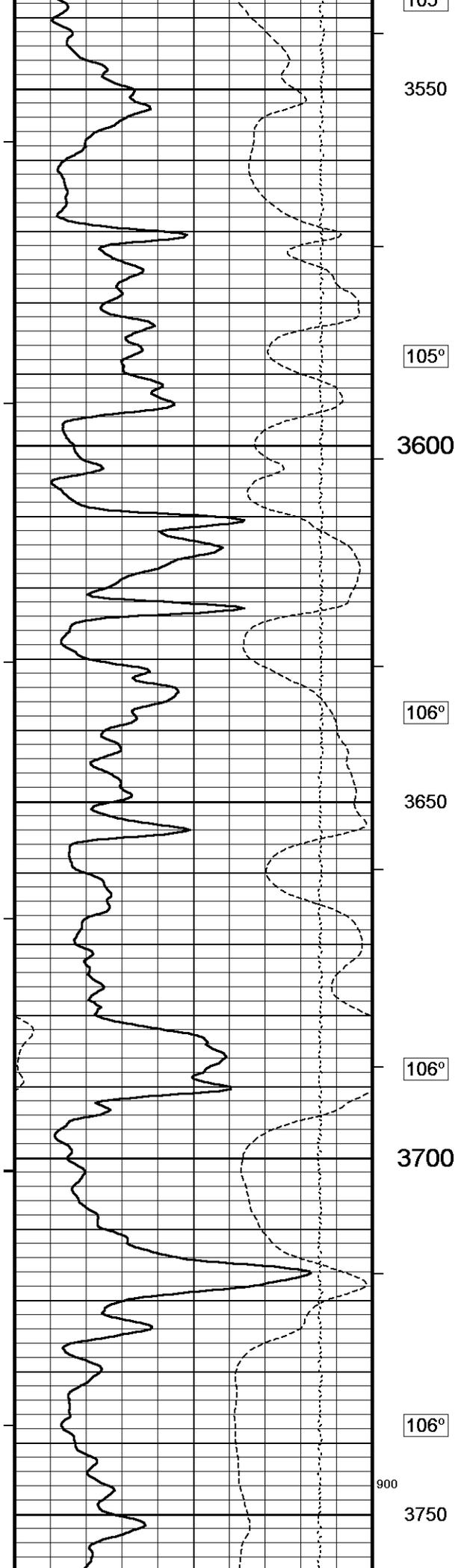


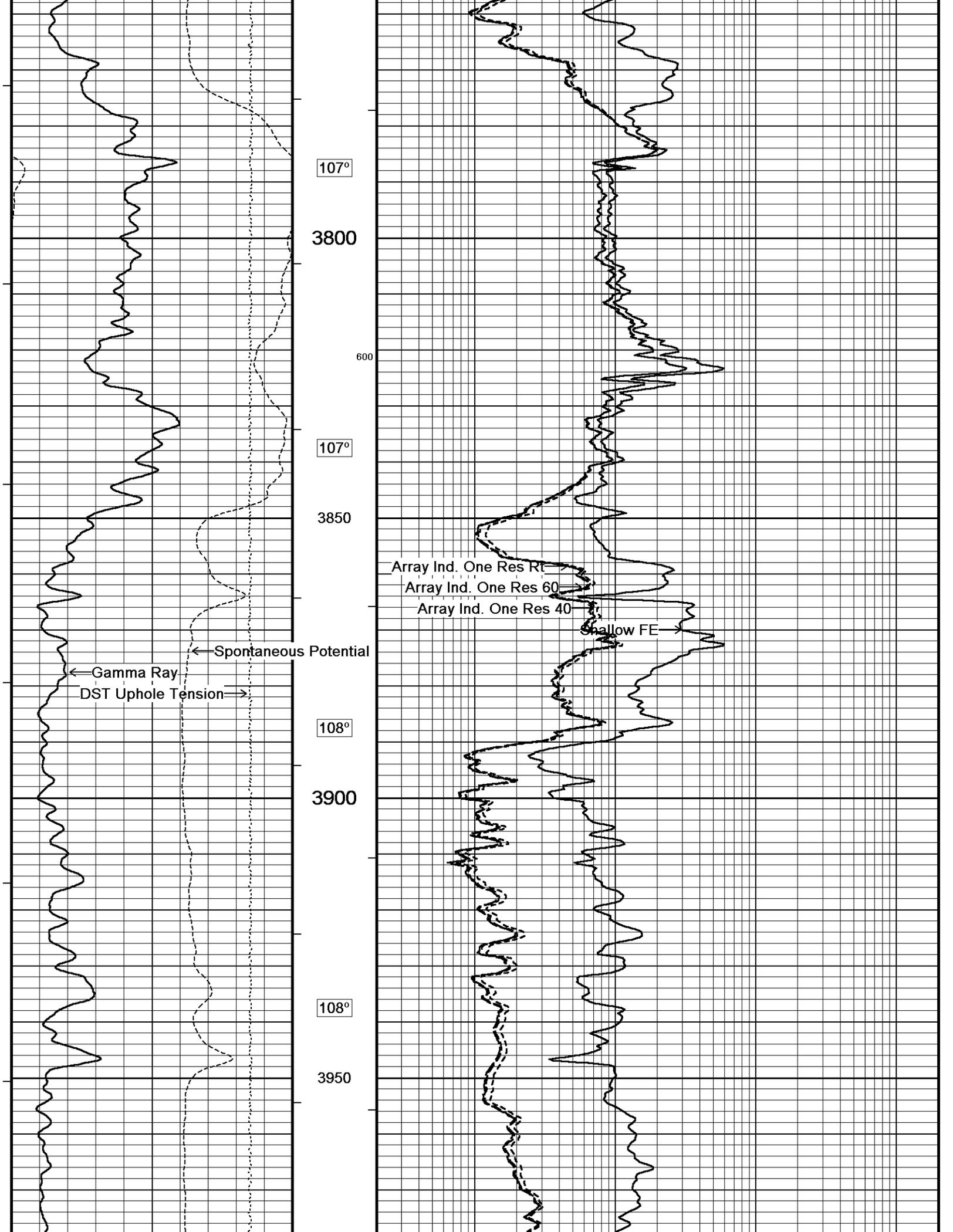


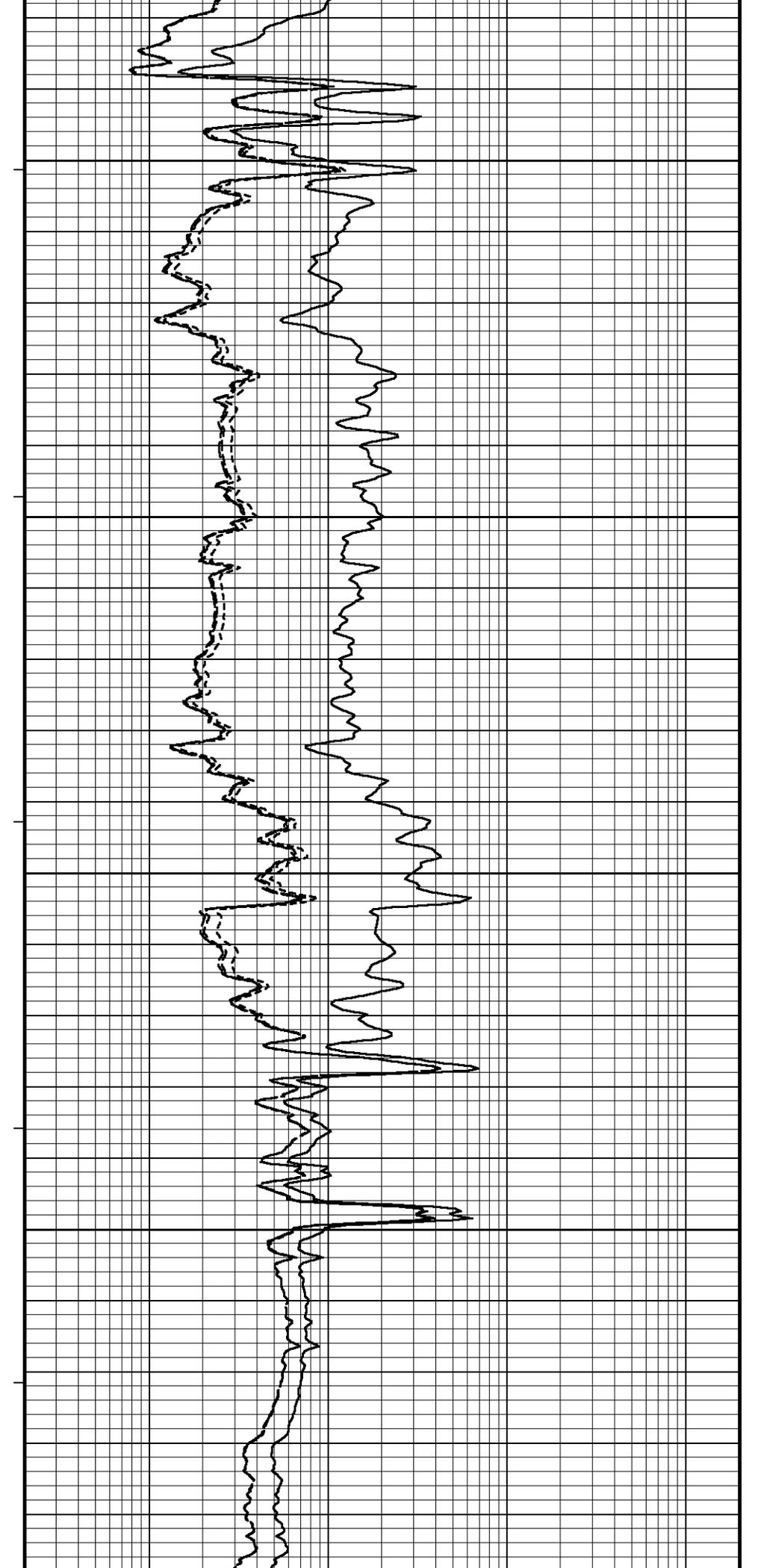
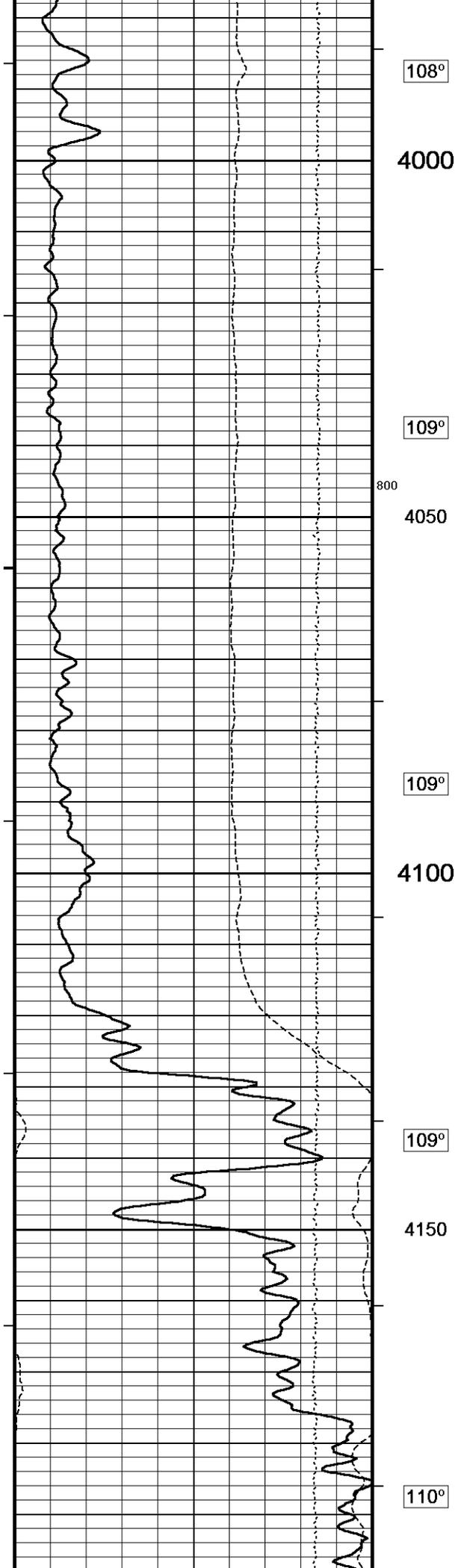


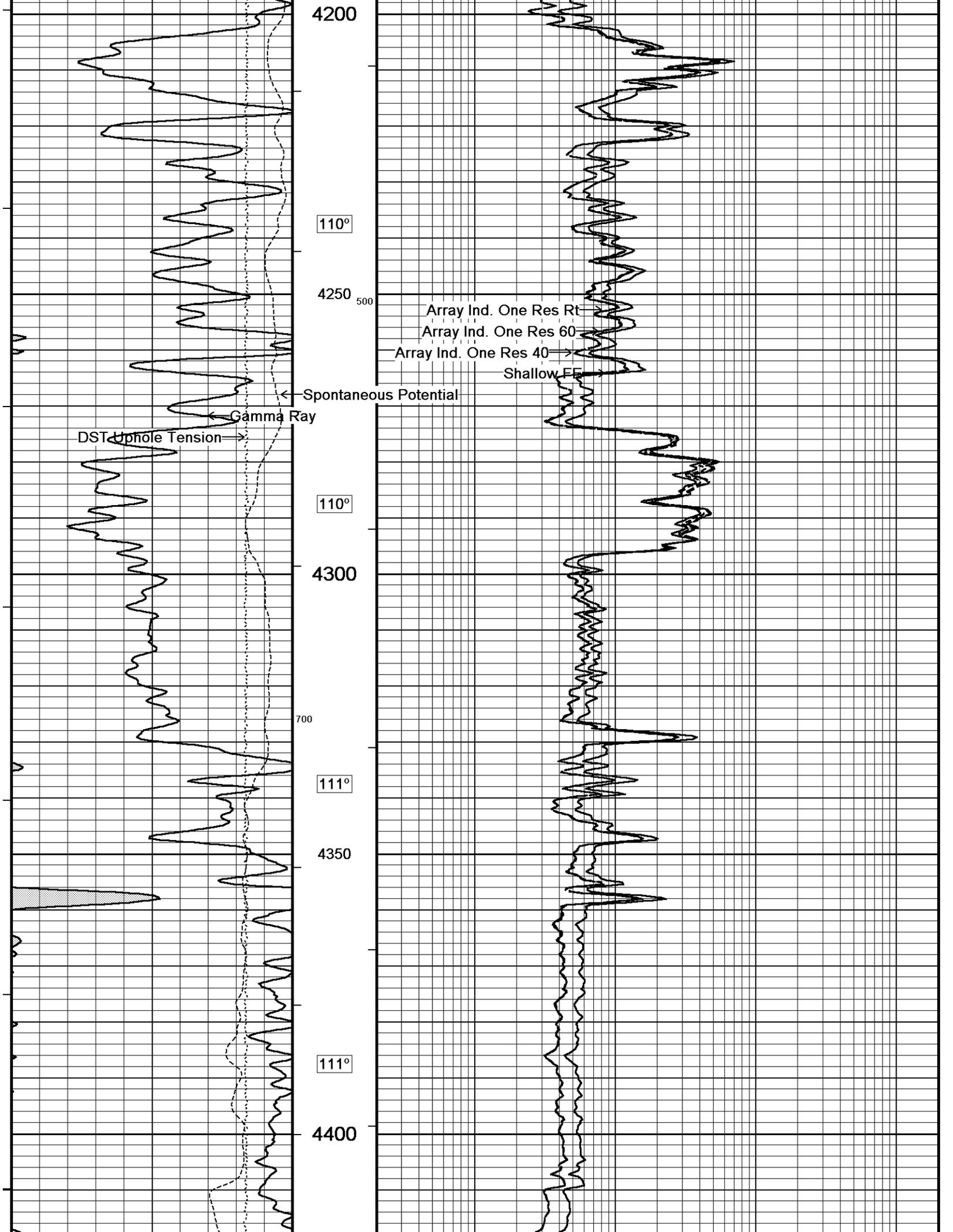


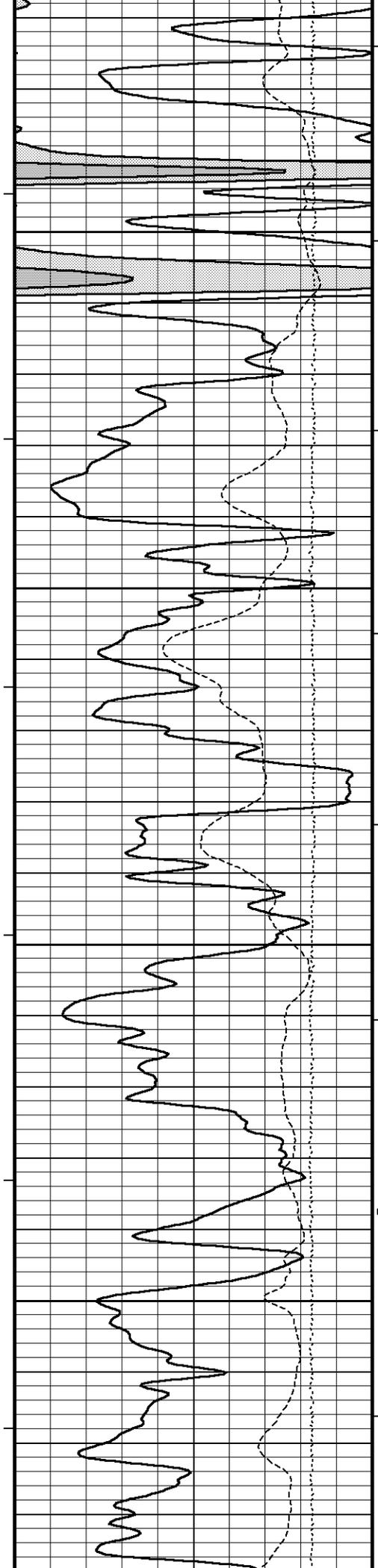












112°

4450

112°

4500

112°

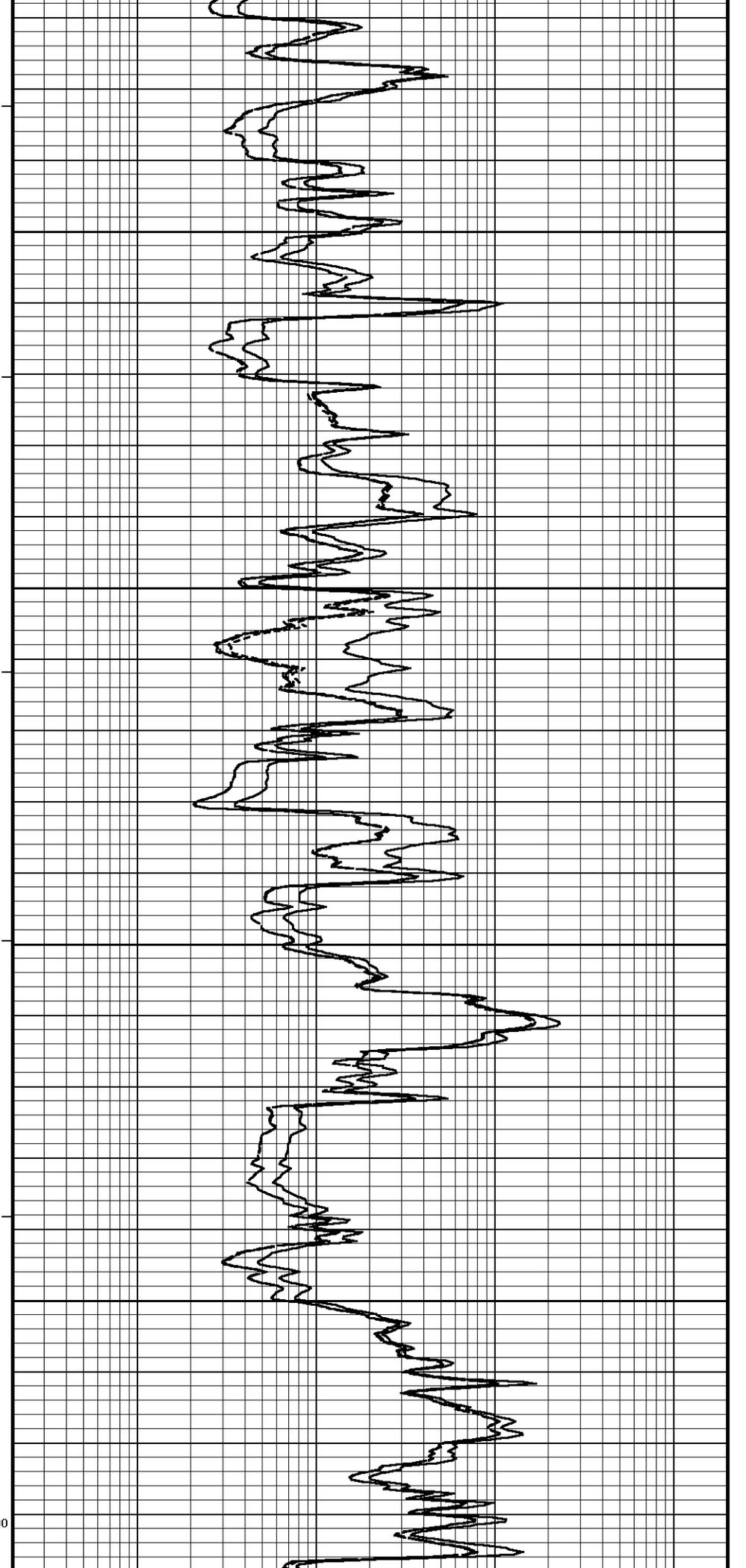
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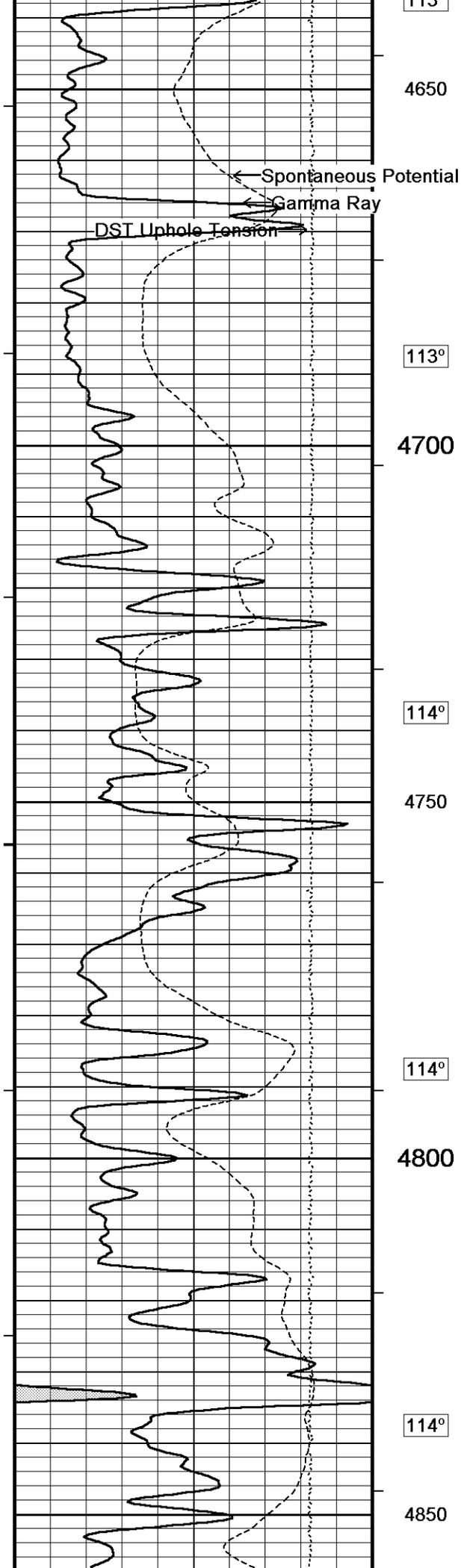
600 113°

4600

112°

400





113

4650

← Spontaneous Potential

← Gamma Ray

DST Uphole Tension →

113°

4700

114°

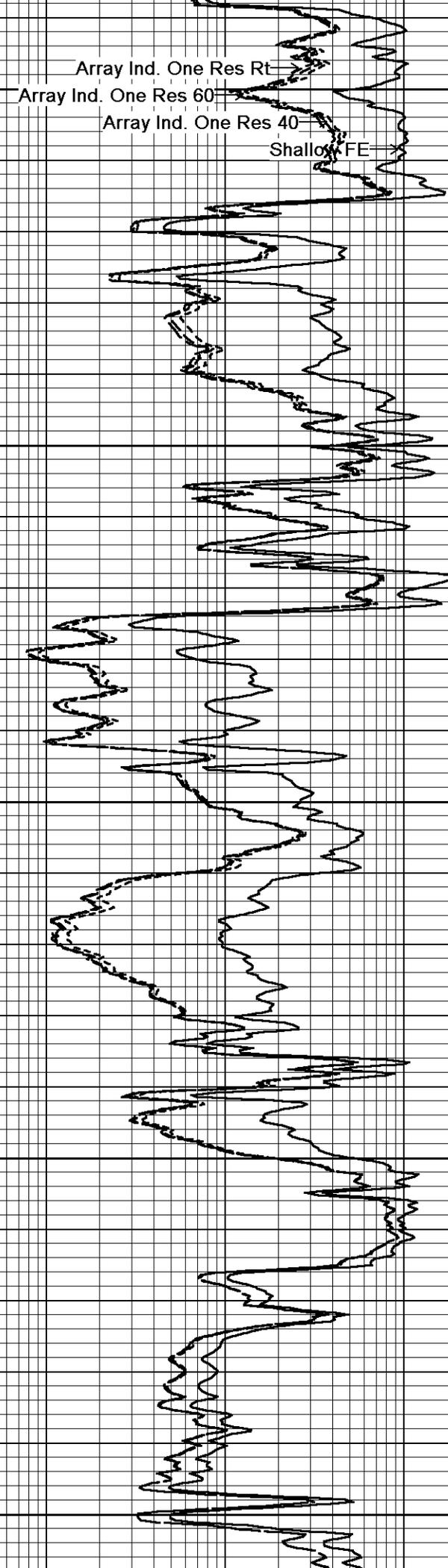
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114°

4800

114°

4850

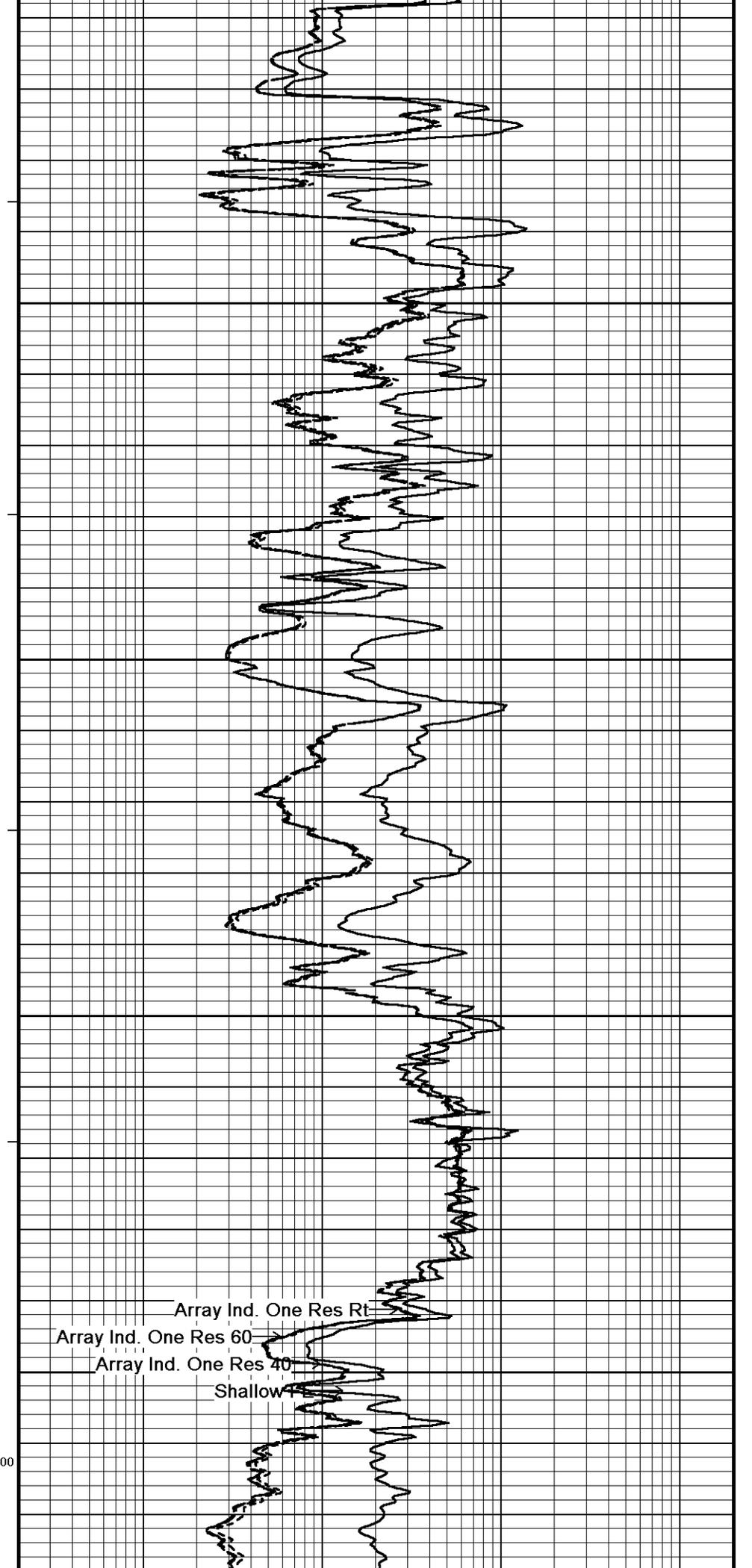
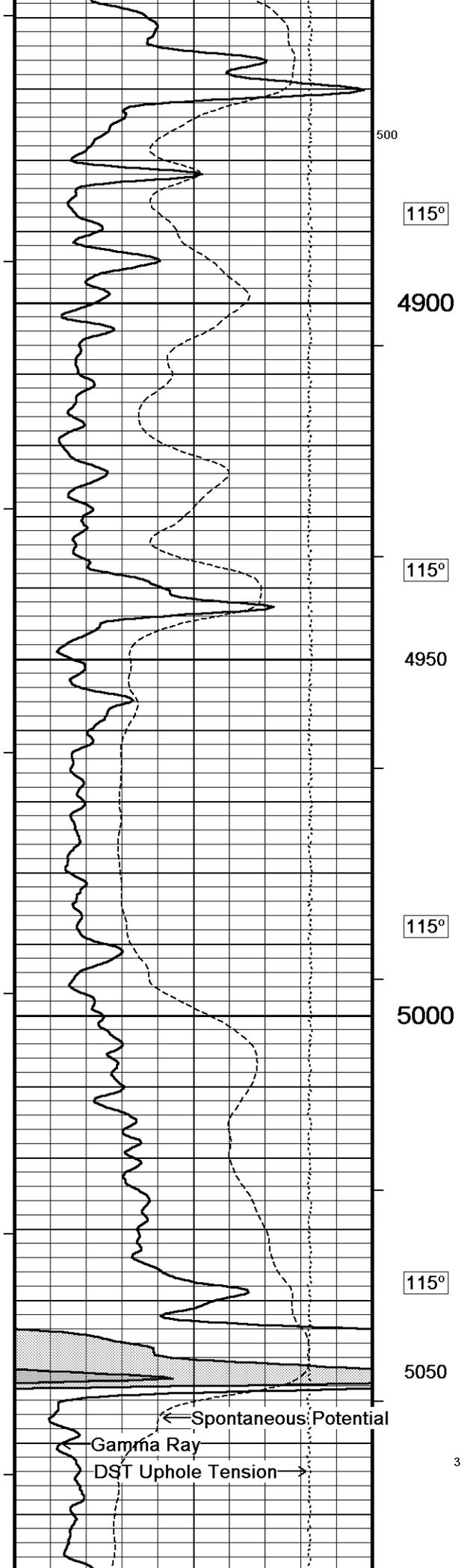


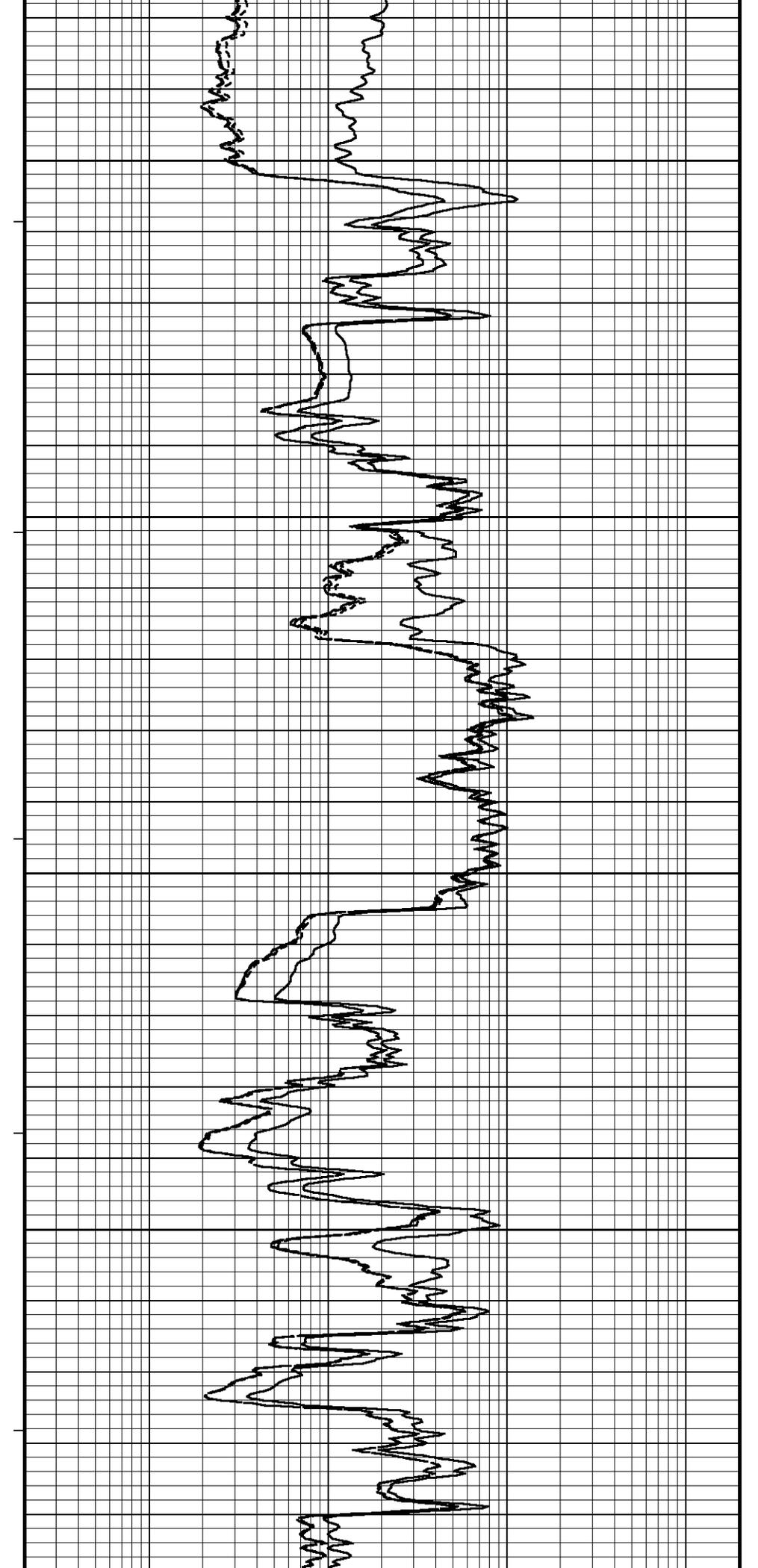
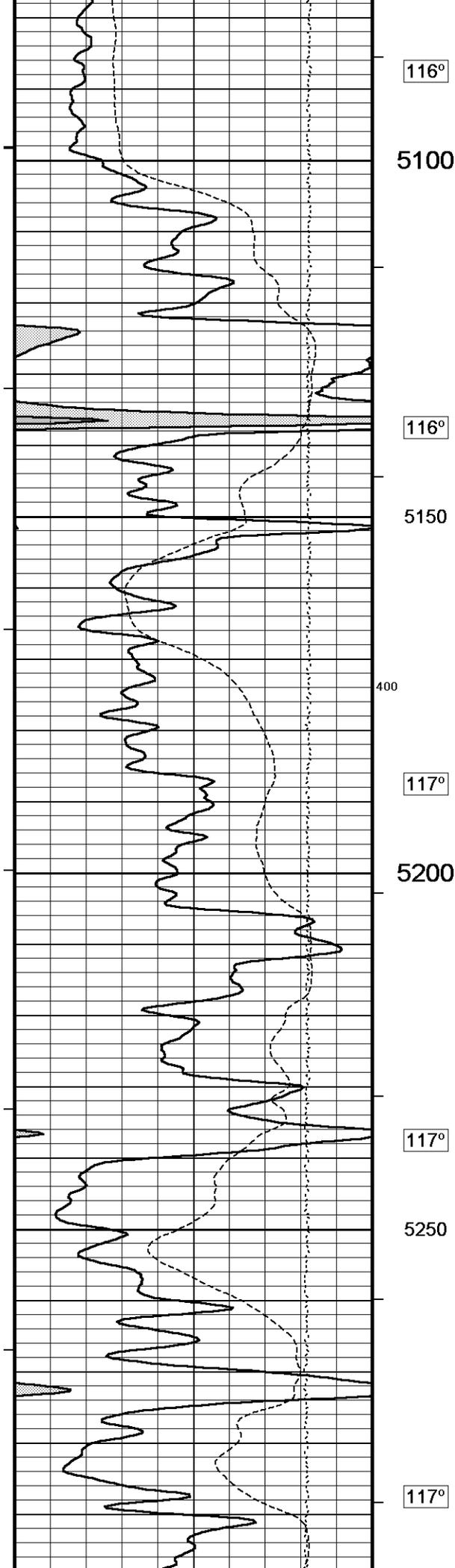
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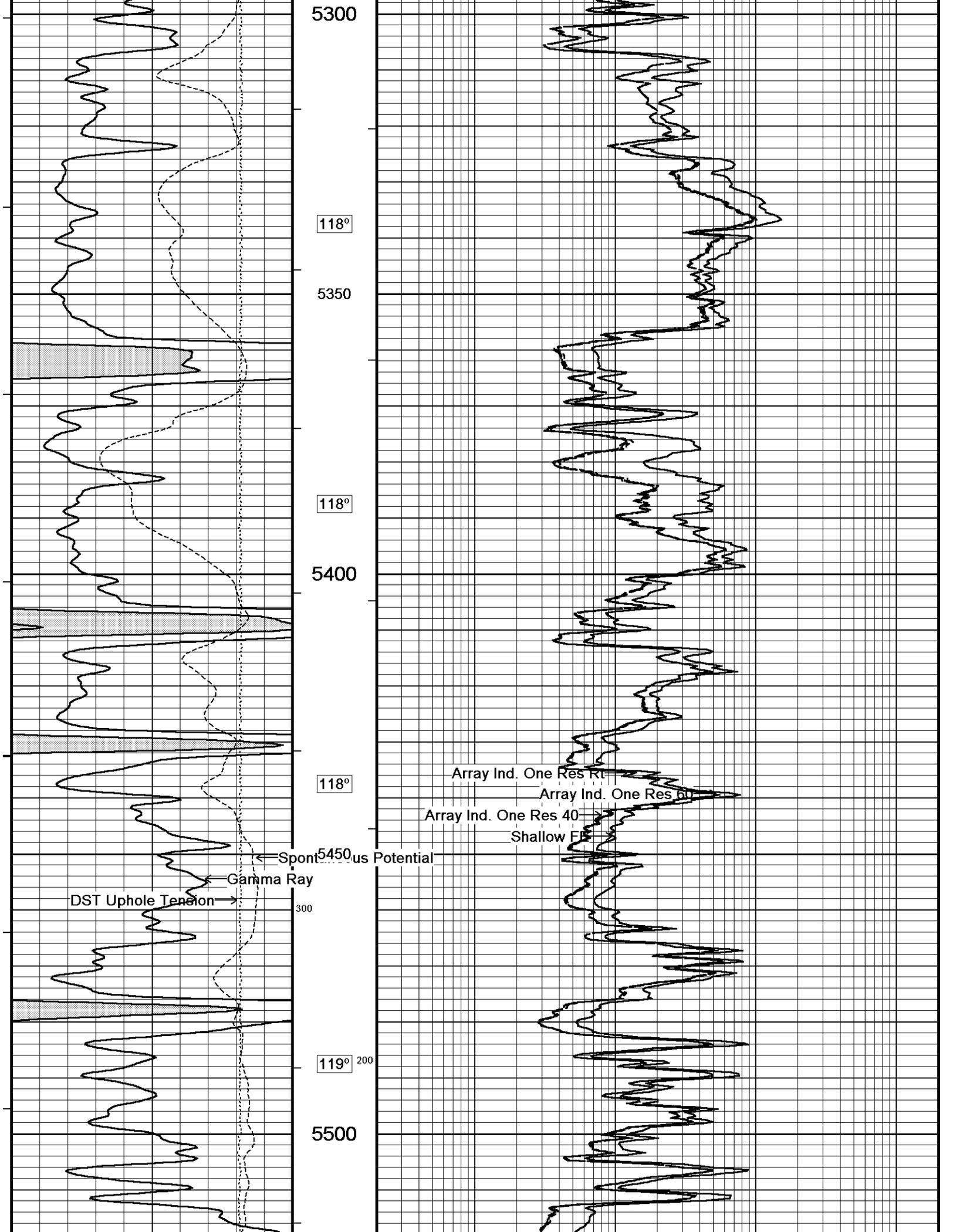
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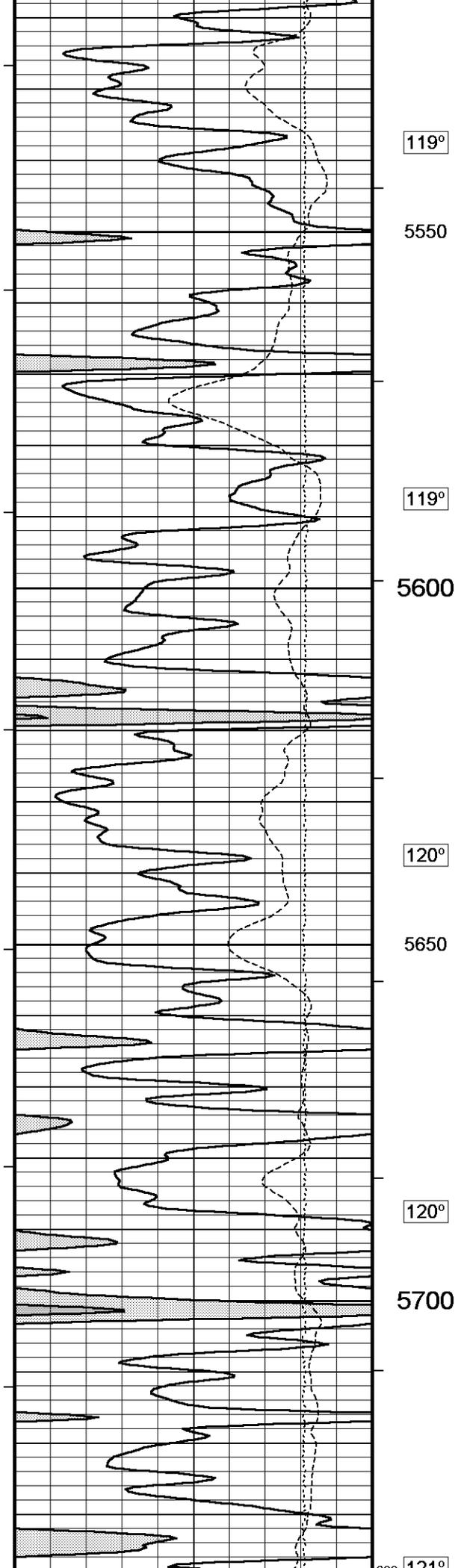
Array Ind. One Res 40 →

Shallow FE →









119°

5550

119°

5600

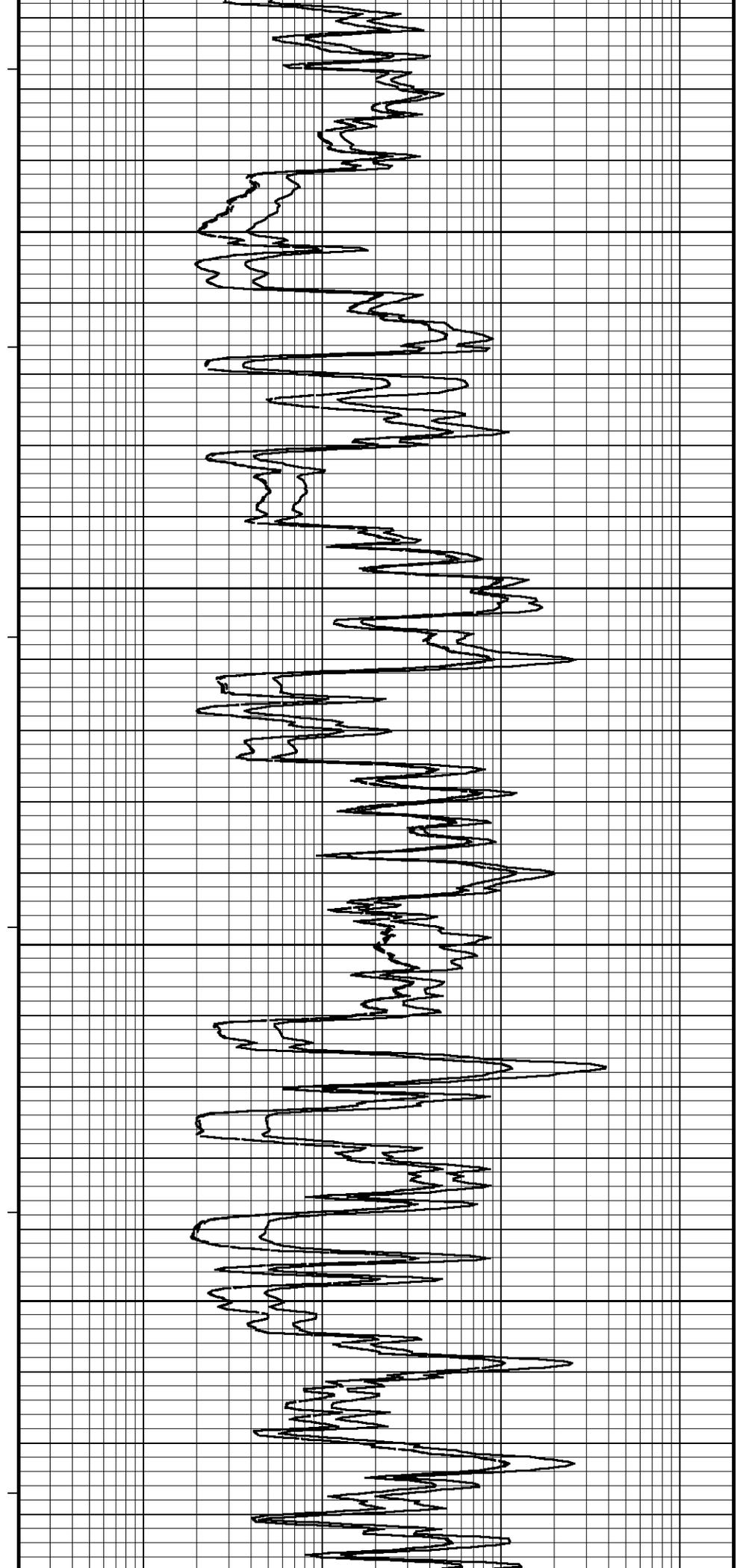
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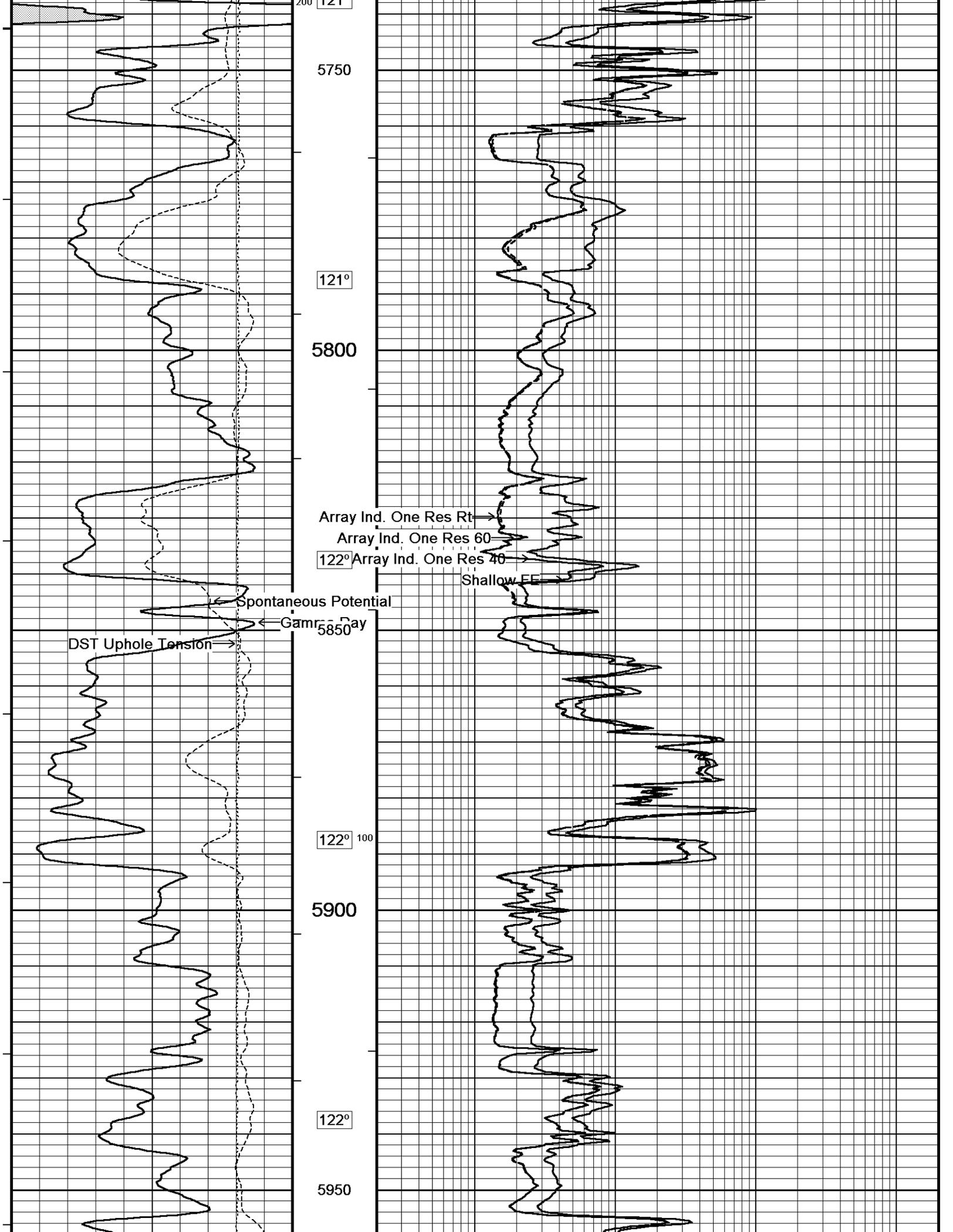
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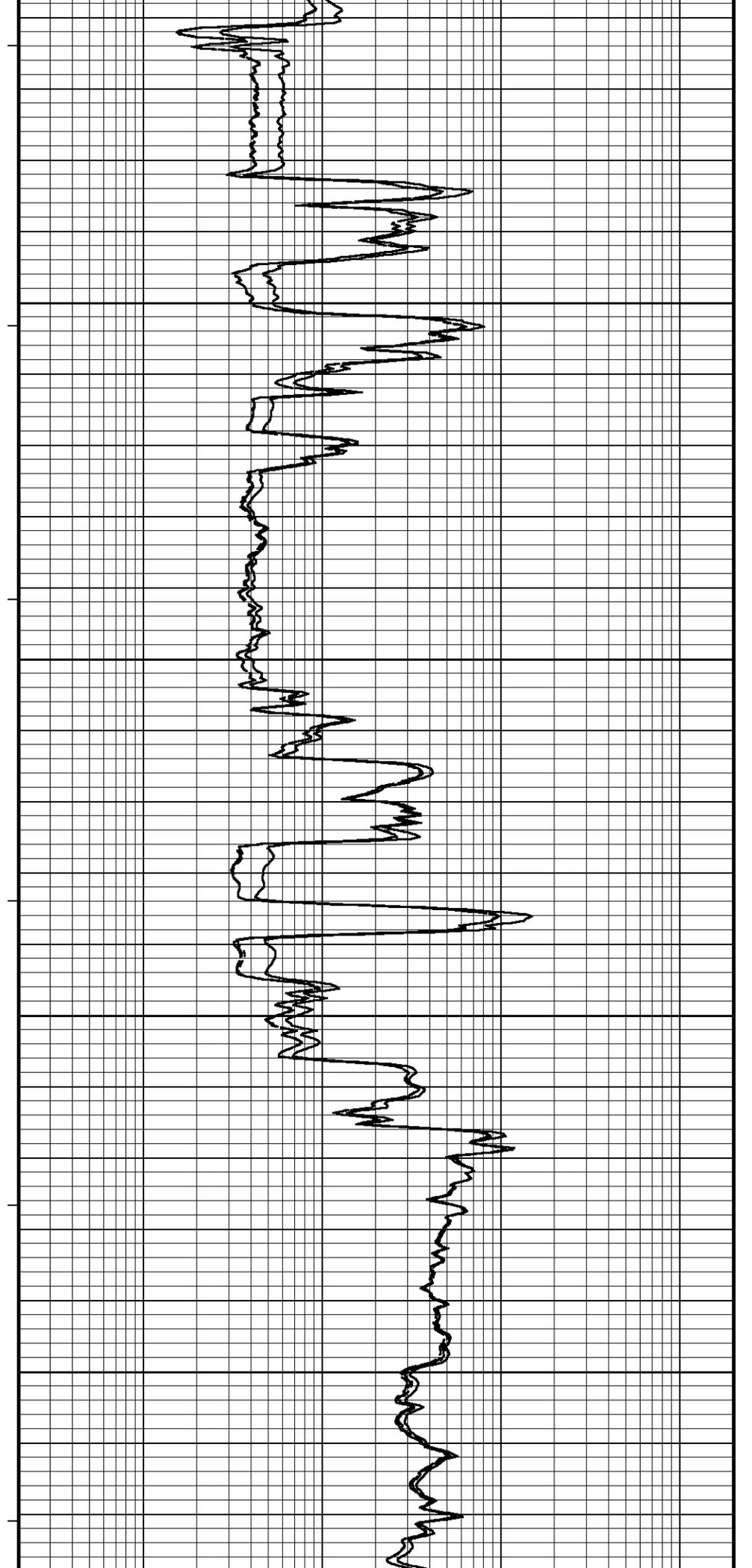
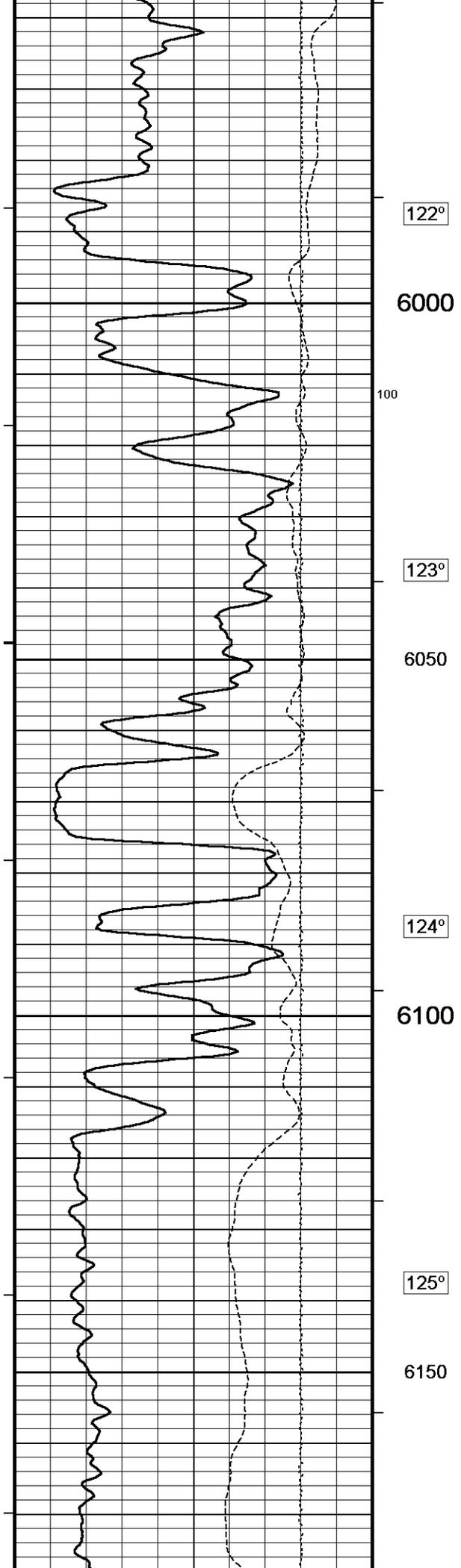
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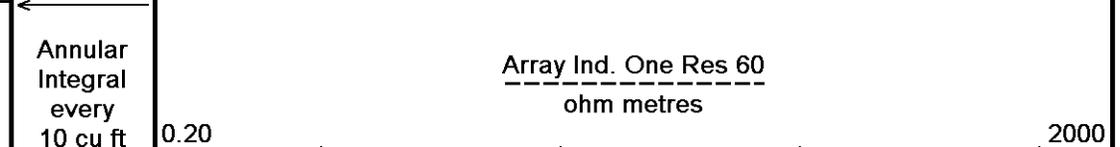
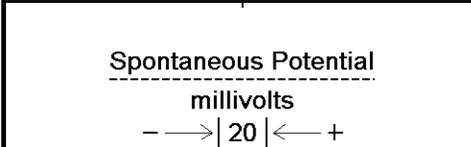
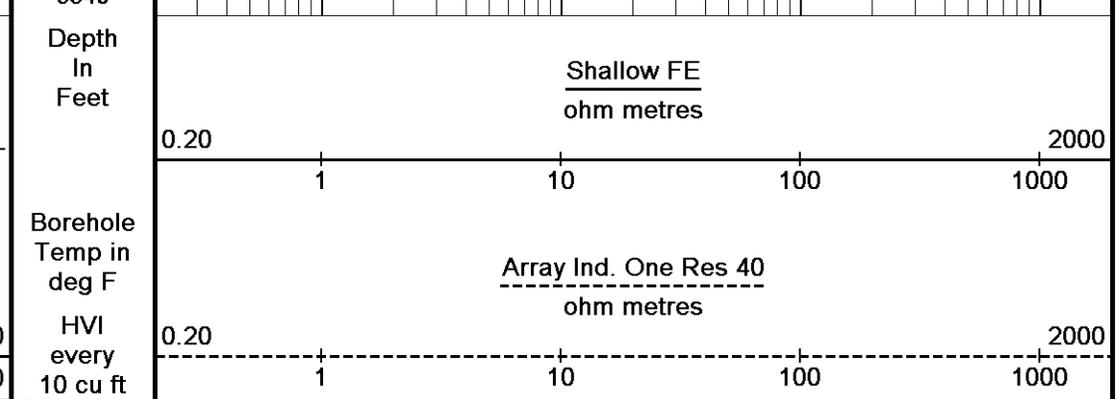
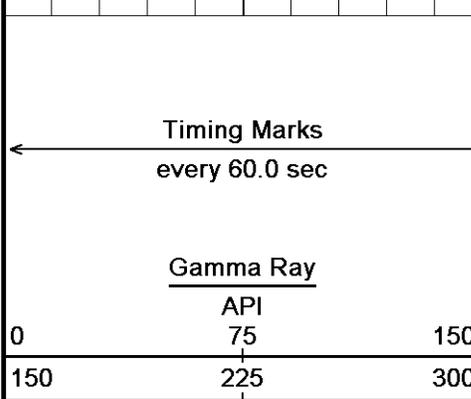
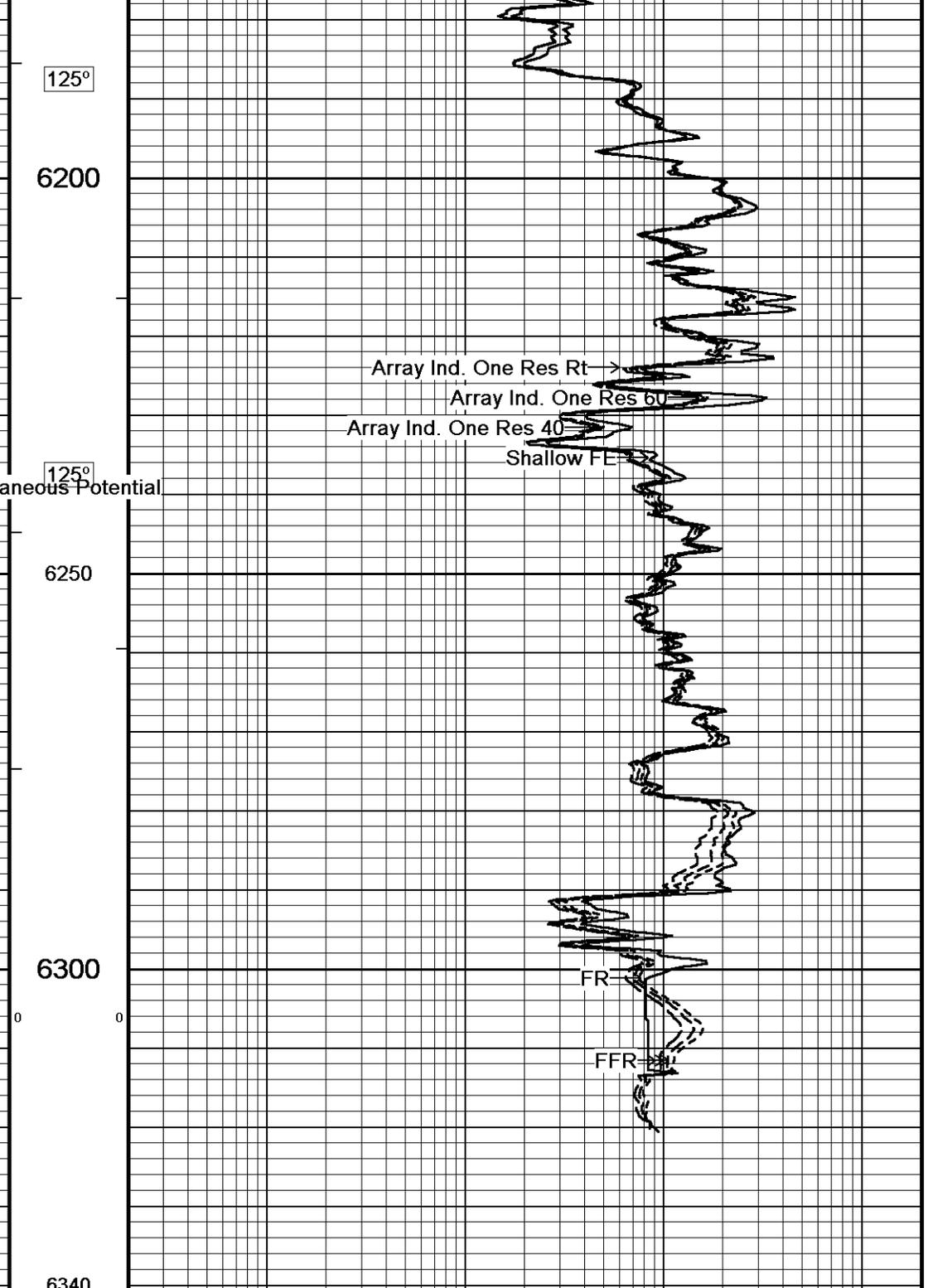
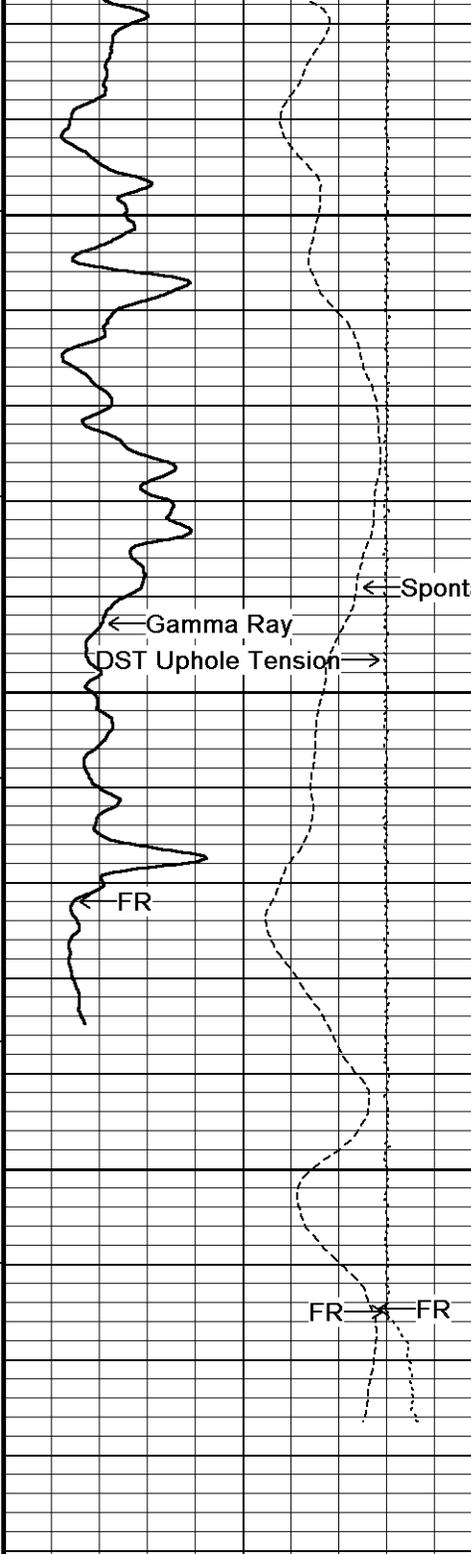
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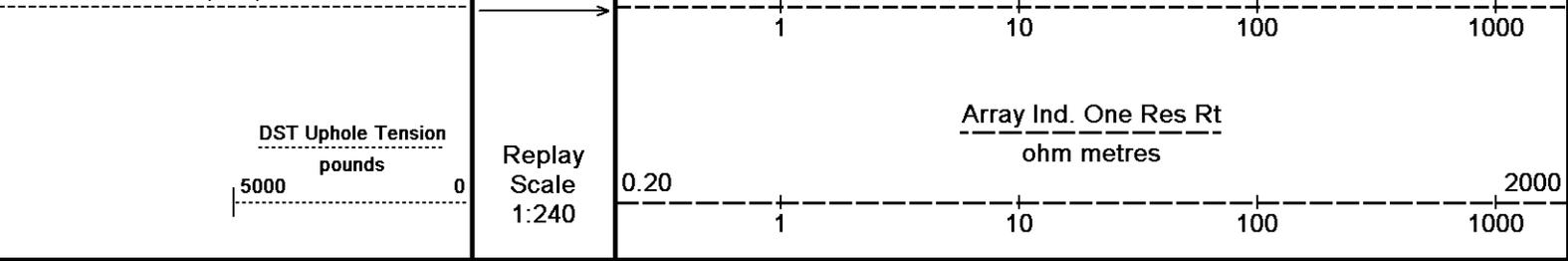
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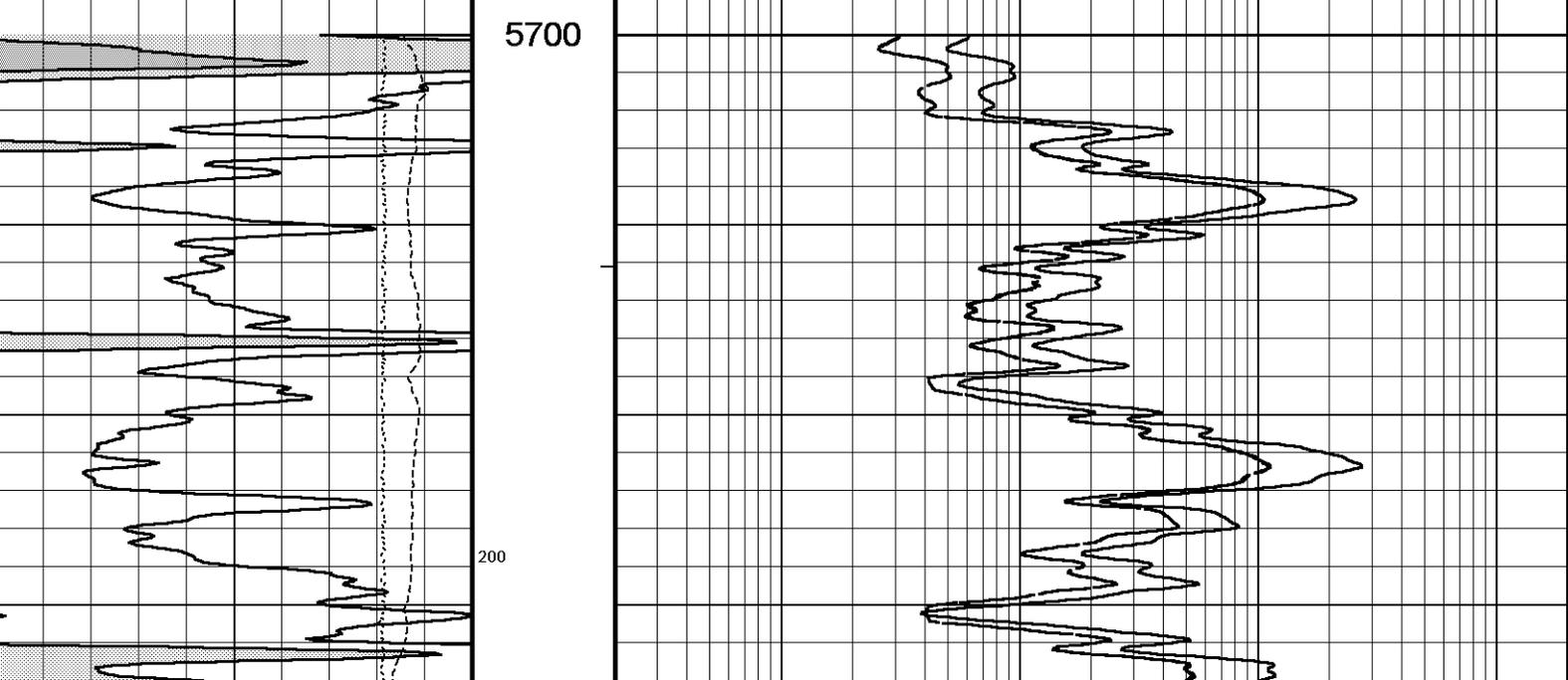
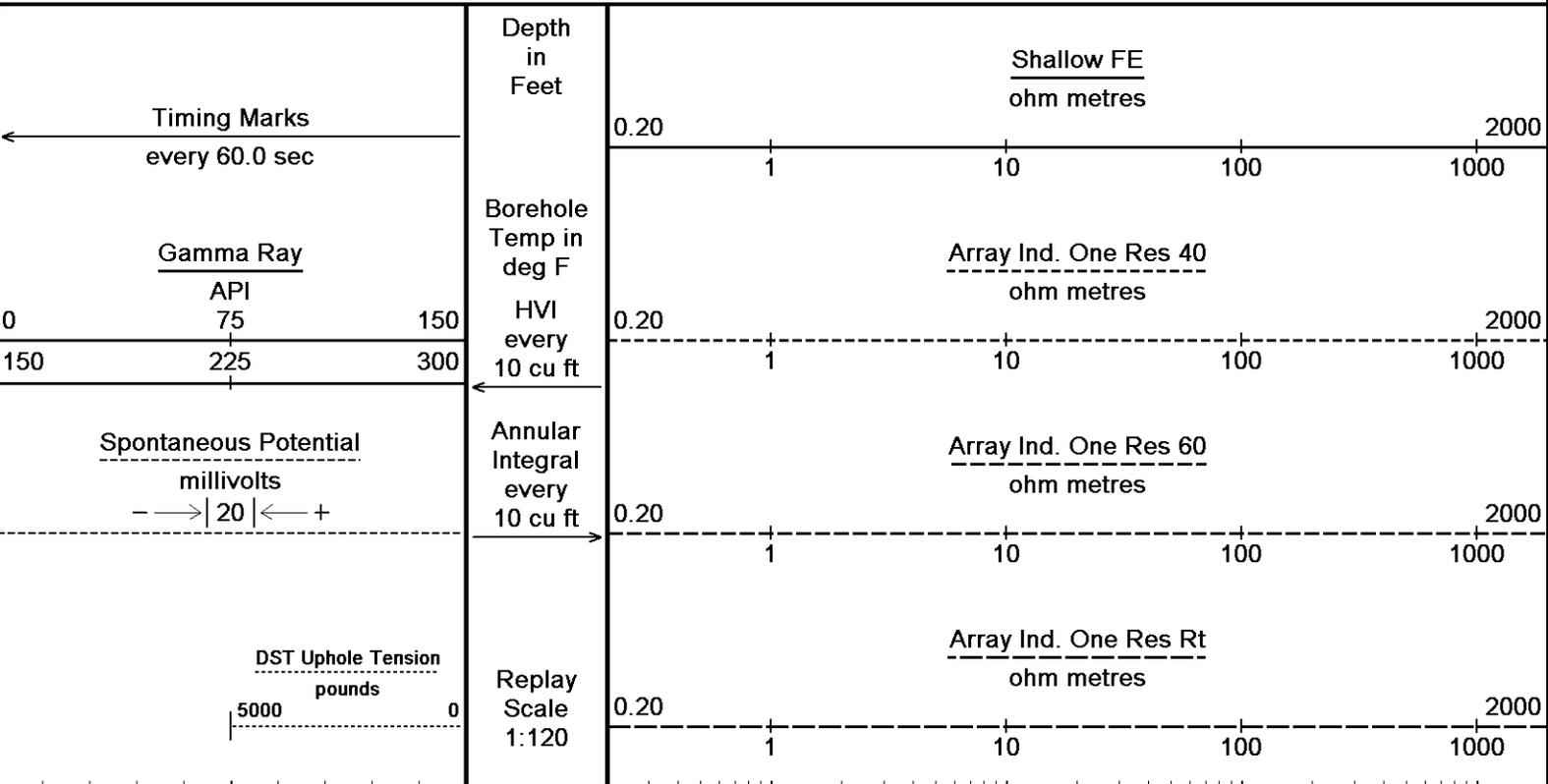


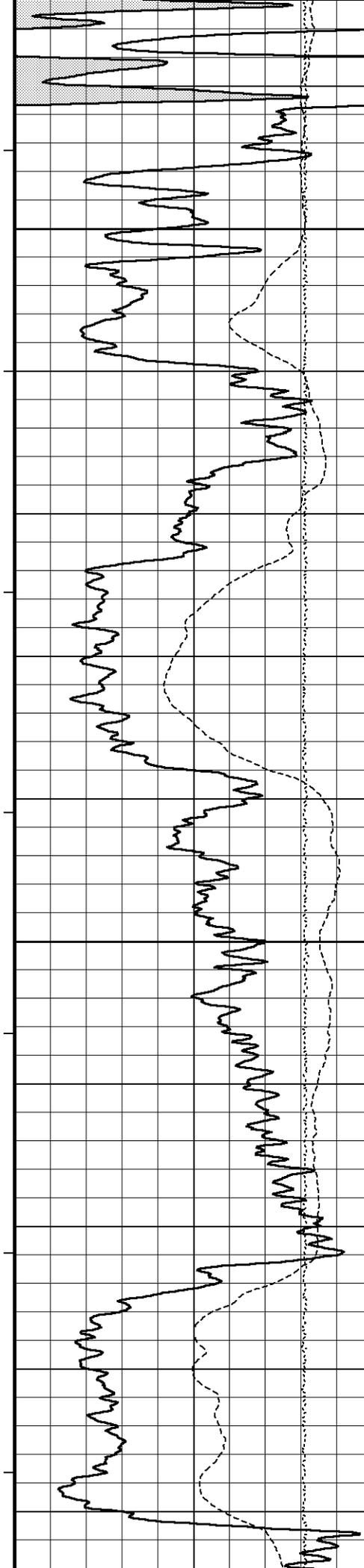
Depth Based Data - Maximum Sampling Increment 10.0cm
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 Filename: C:\Minimus 13.05.9583\Log\O'Brien Rickers Ranch ...\O'Brien Rickers Ranch #8-17_Main.dta
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 System Versions: Logged with 13.05.9583 Processed with 13.05.9583 Plotted with 13.05.9583

↑ **5 INCH MAIN** ↑

↓ **10 INCH HI-RES** ↓

Depth Based Data - Maximum Sampling Increment 2.5cm
 Plotted on 14-SEP-2013 03:06
 Filename: C:\Minimus 13.05.9583\Log\O'Brien Rickers Ranch #...O'Brien Rickers Ranch #8-17_001.dta
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 System Versions: Logged with 13.05.9583 Plotted with 13.05.9583





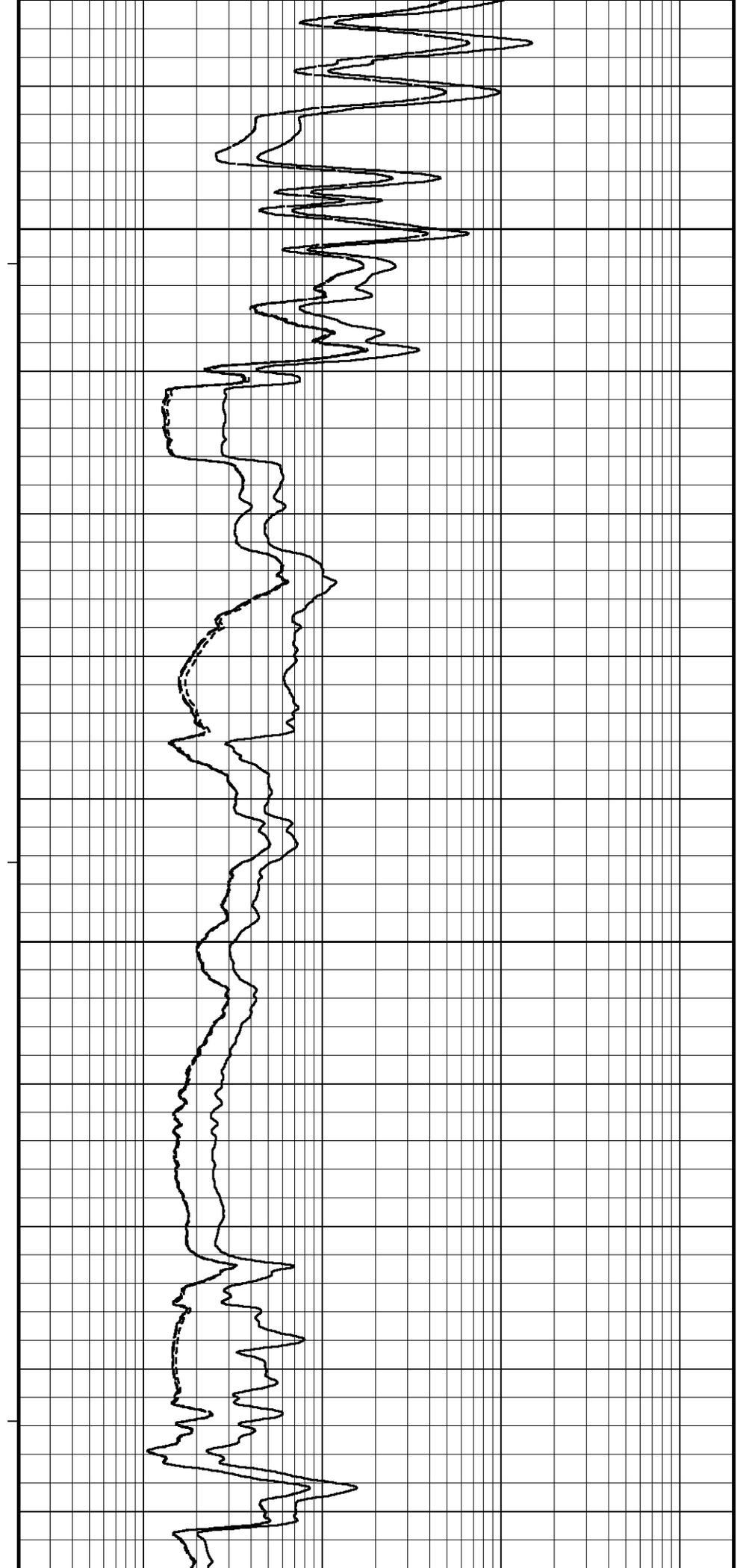
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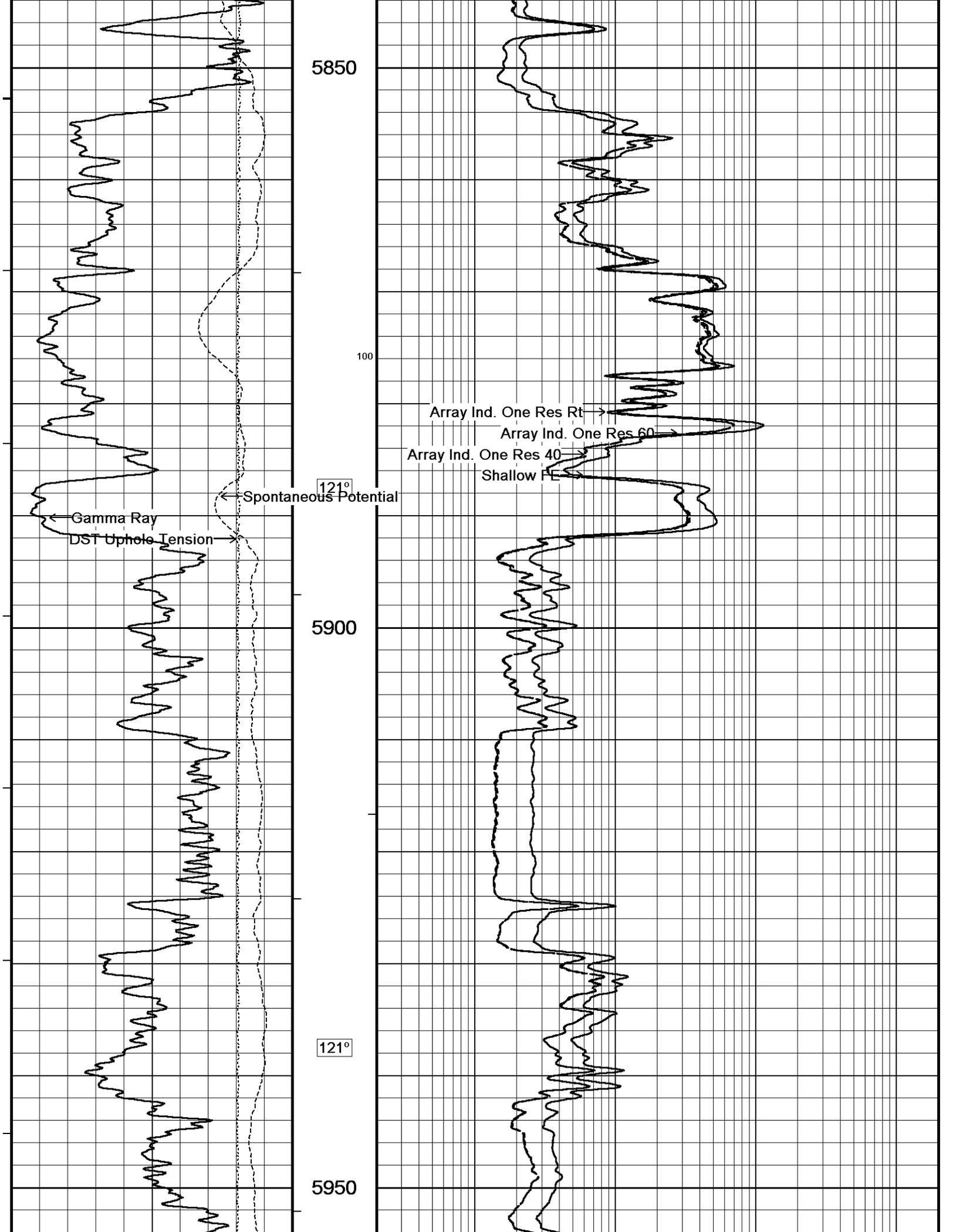
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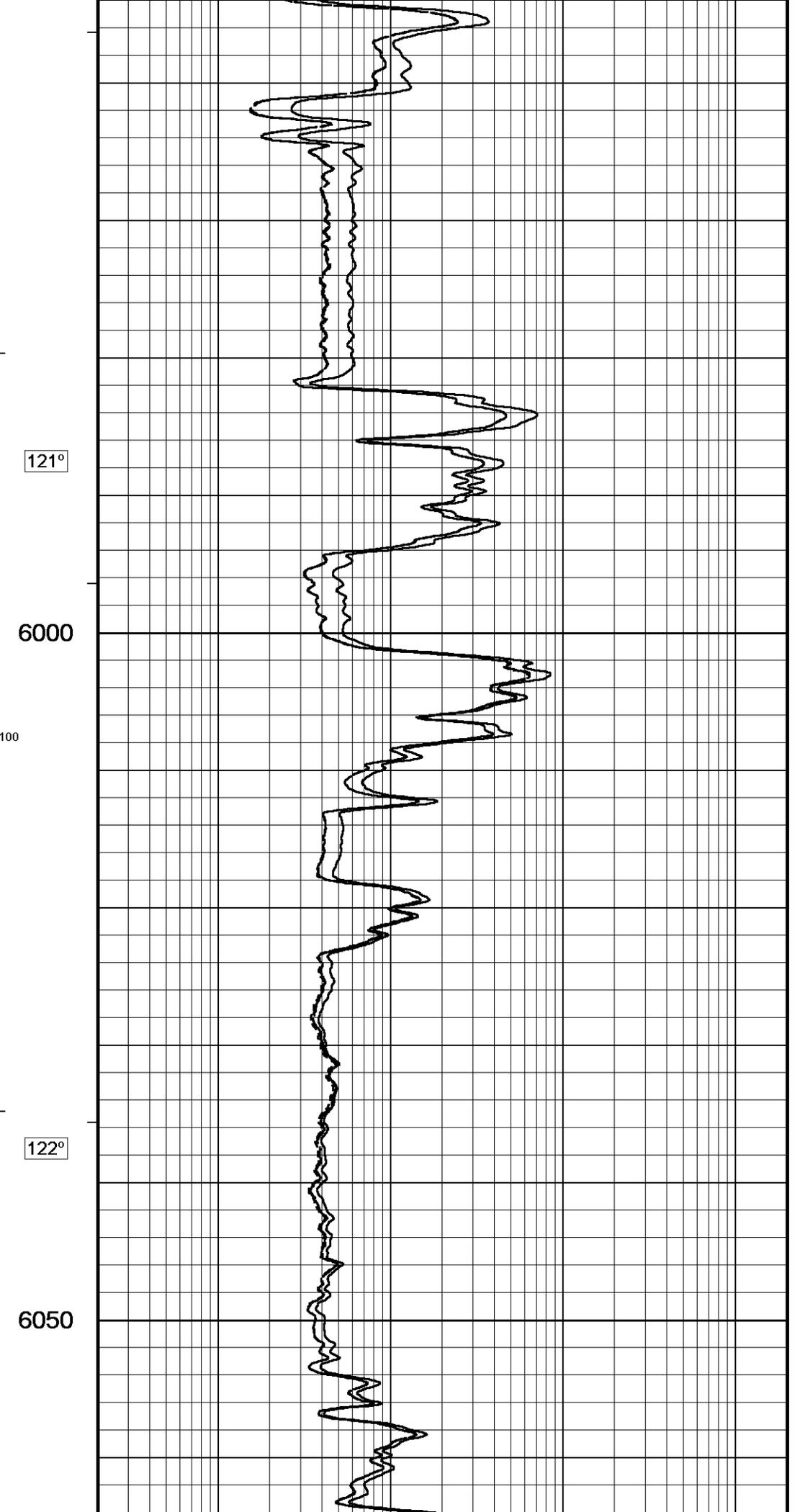
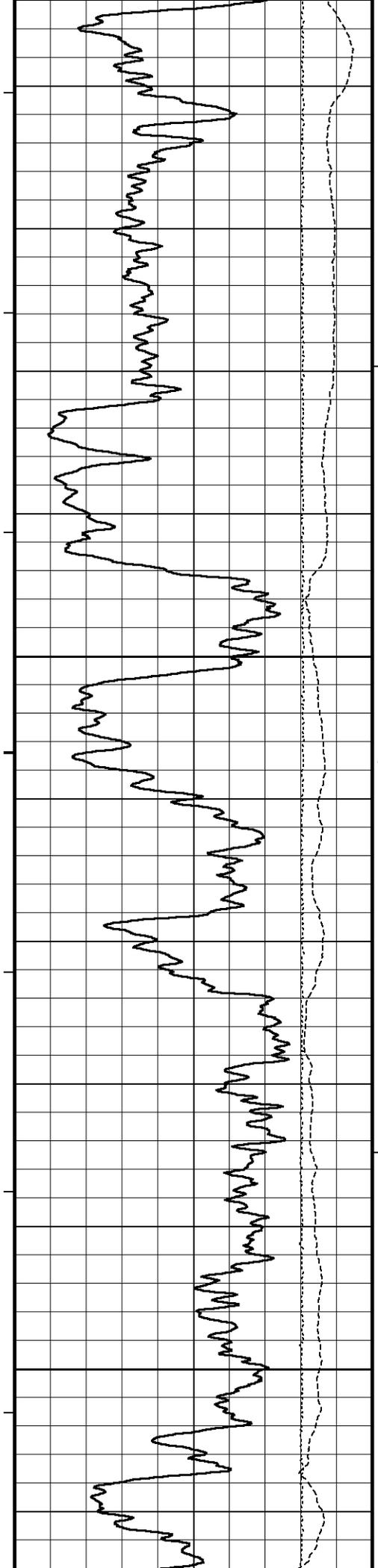
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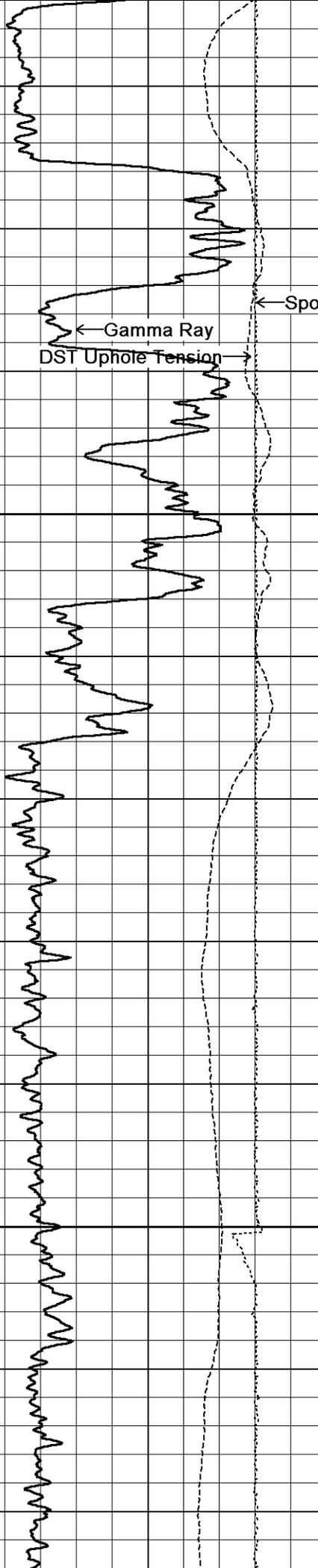
5800

120°



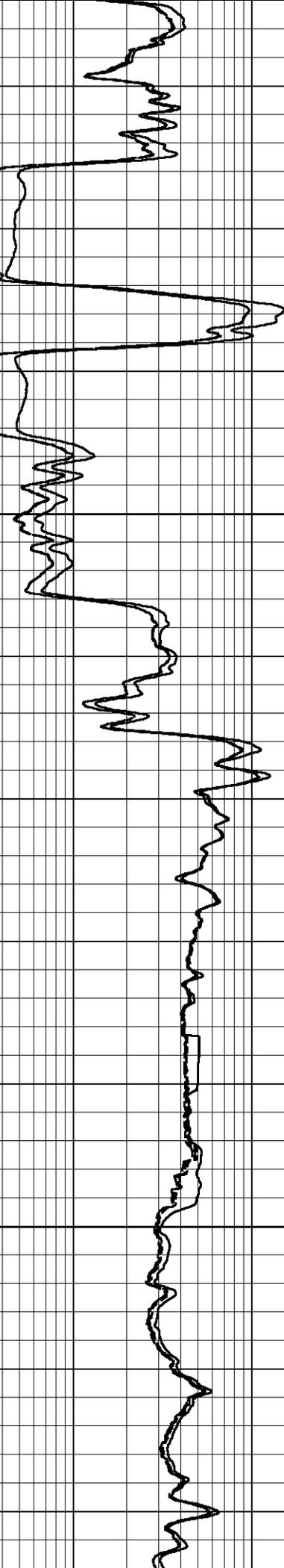


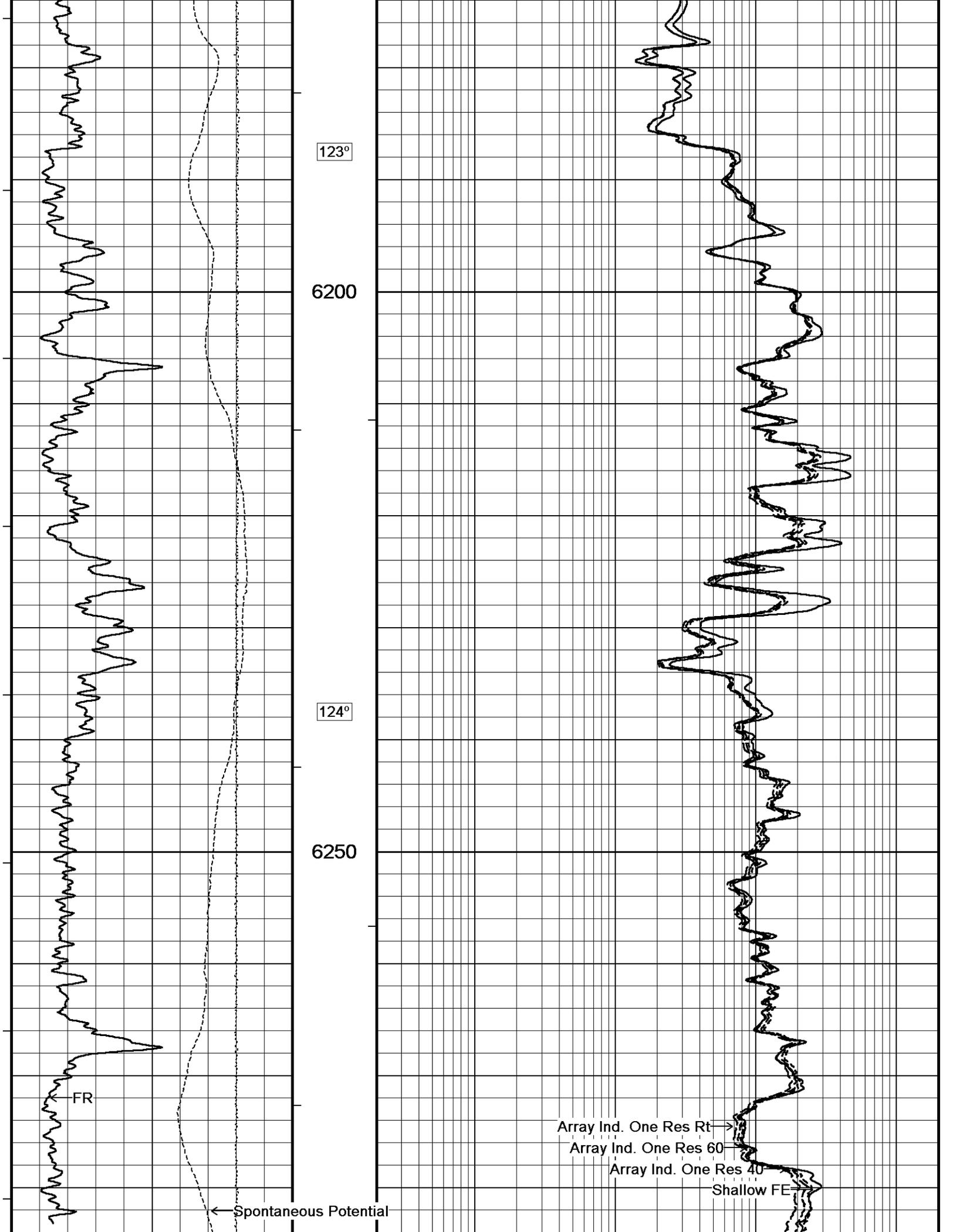




123°
6100
123°
6150

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





123°

6200

124°

6250

FR

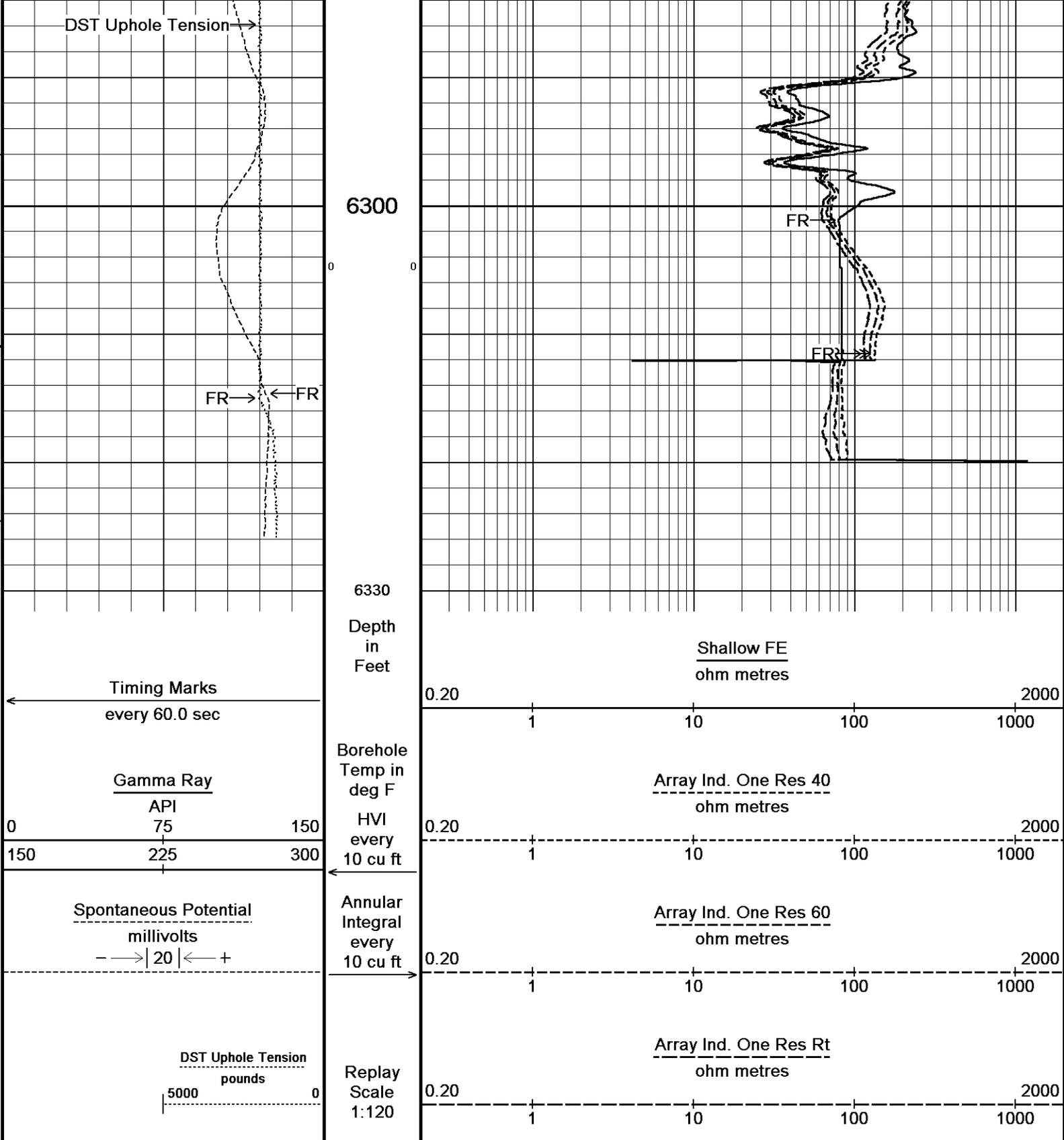
← Spontaneous Potential

Array Ind. One Res Rt →

Array Ind. One Res 60 →

Array Ind. One Res 40 →

Shallow FE →



Depth Based Data - Maximum Sampling Increment 2.5cm Plotted on 14-SEP-2013 03:06
 Filename: C:\Minimus 13.05.9583\Log\O'Brien Rickers Ranch #8-17_001.dta Recorded on 13-SEP-2013 23:48
 System Versions: Logged with 13.05.9583 Plotted with 13.05.9583

↑ 10 INCH HI-RES ↑

↓ REPEAT SECTION ↓

Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 14-SEP-2013 03:06
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 System Versions: Logged with 13.05.9583 Processed with 13.05.9583 Plotted with 13.05.9583

Depth

Timing Marks
every 60.0 sec

Gamma Ray
API
0 75 150
150 225 300

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

DST Uphole Tension
pounds
5000 0

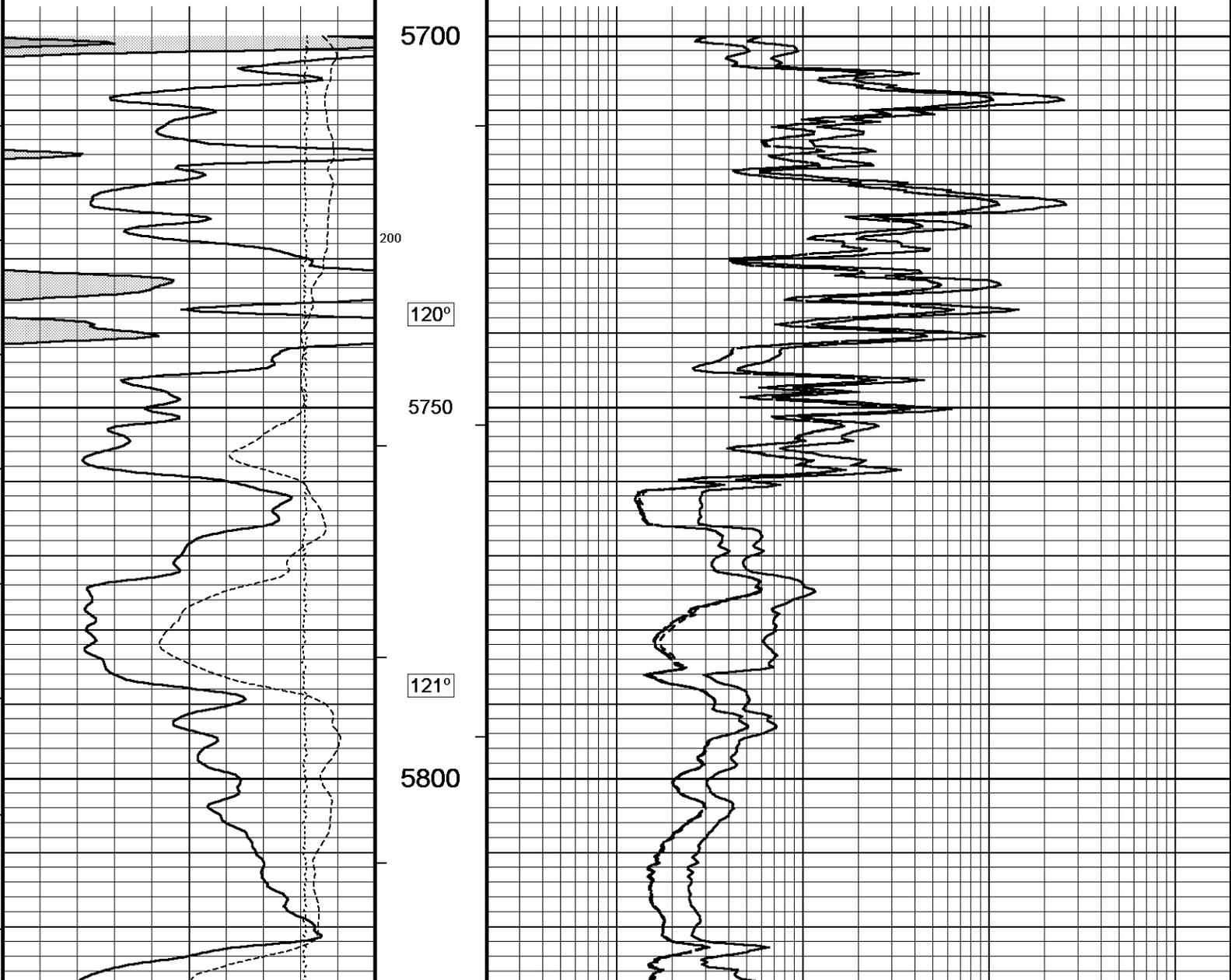
in
Feet
Borehole
Temp in
deg F
HVI
every
10 cu ft

Annular
Integral
every
10 cu ft

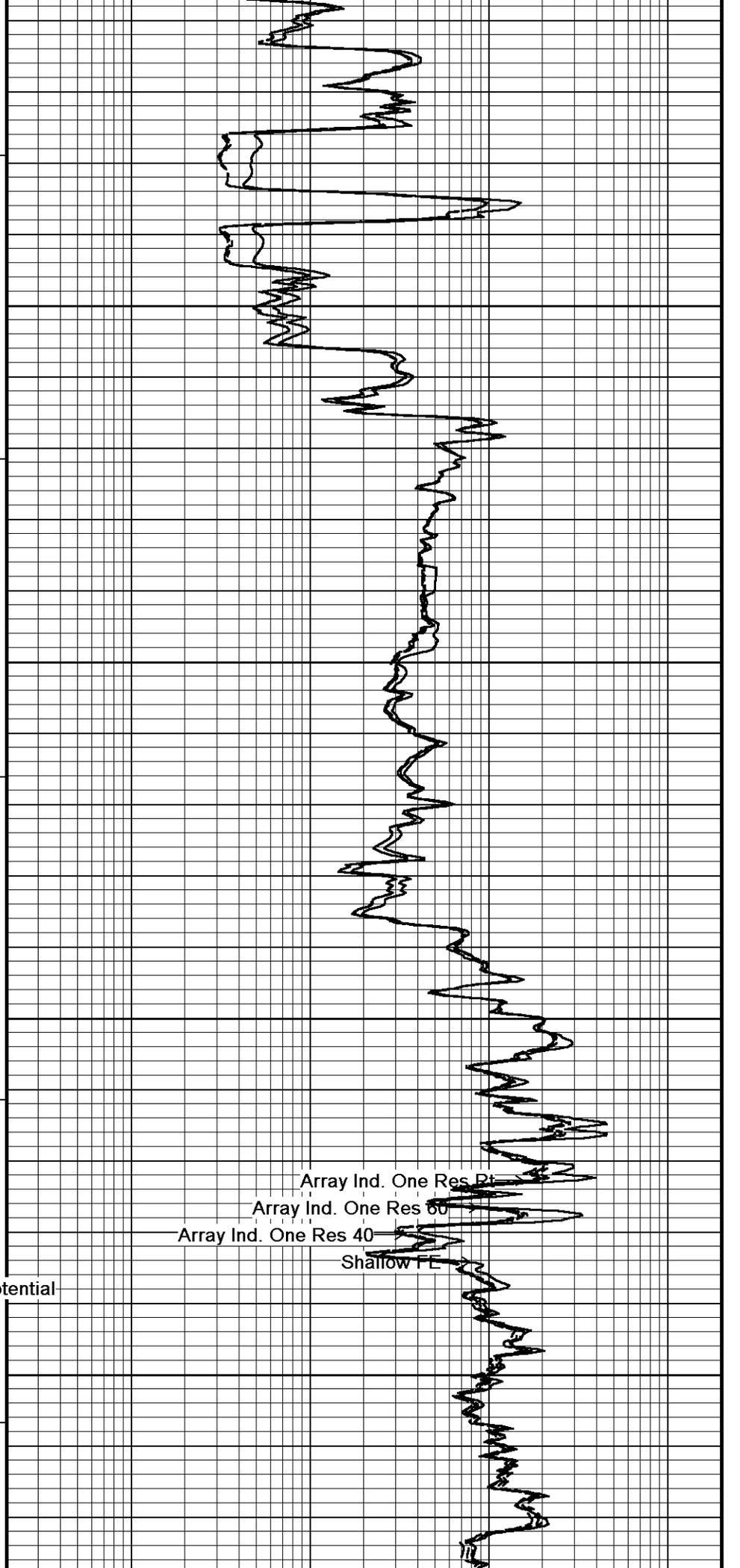
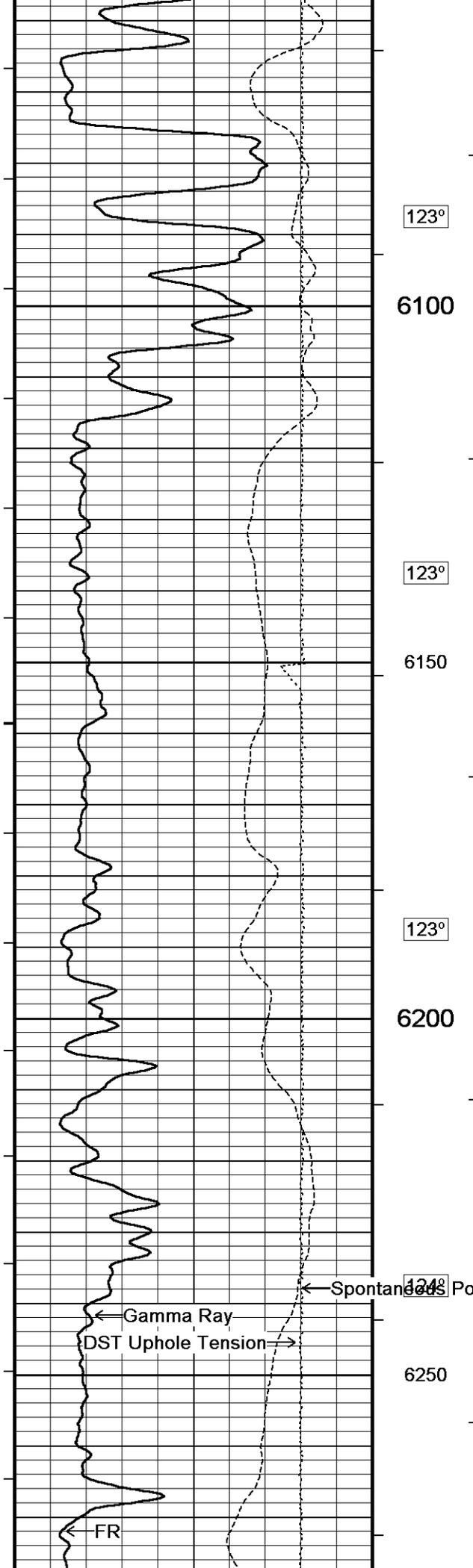
Replay
Scale
1:240

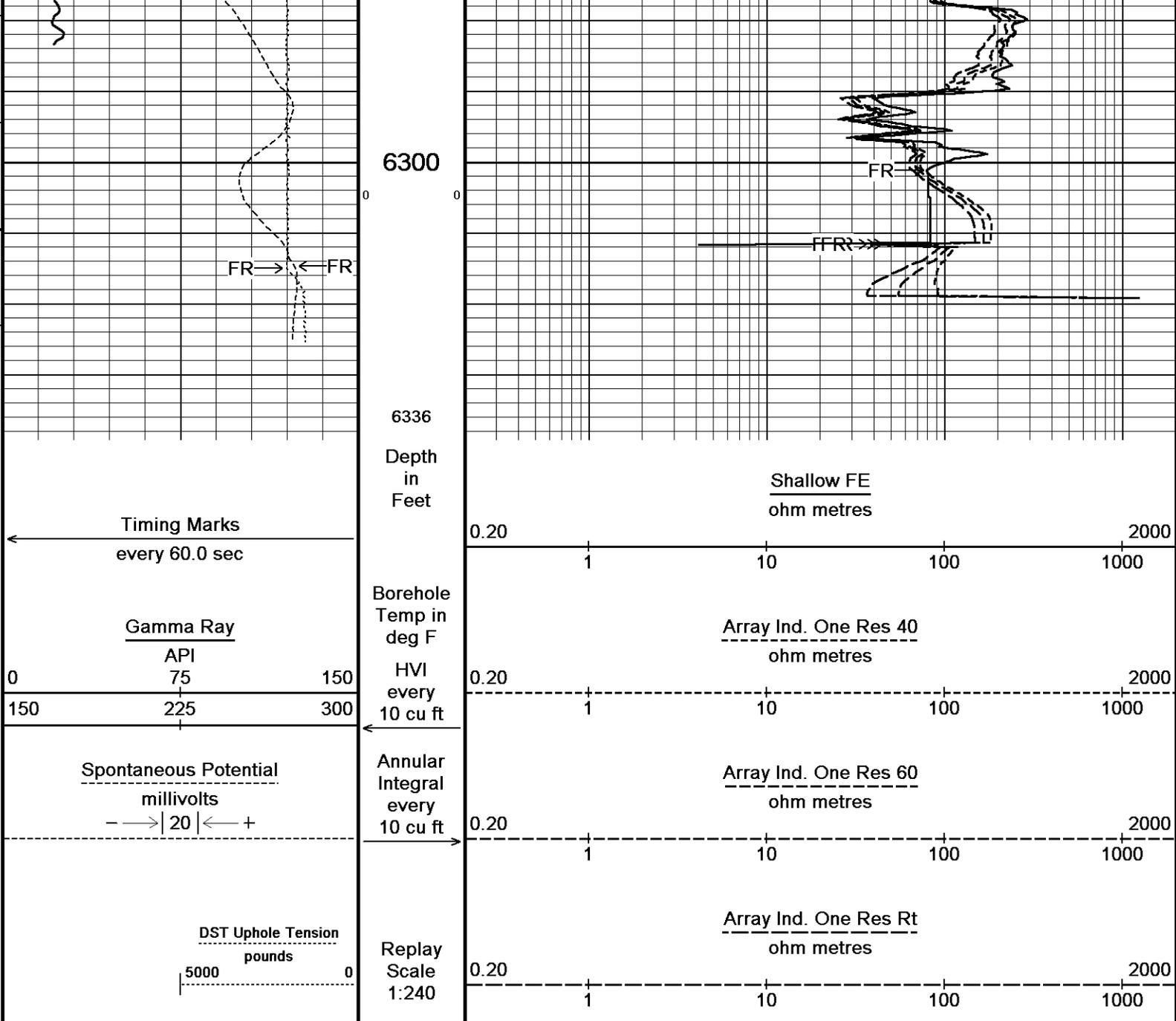
5700
200
120°
5750
121°
5800

Shallow FE
ohm metres
0.20 1 10 100 1000 2000
Array Ind. One Res 40
ohm metres
0.20 1 10 100 1000 2000
Array Ind. One Res 60
ohm metres
0.20 1 10 100 1000 2000
Array Ind. One Res Rt
ohm metres
0.20 1 10 100 1000 2000



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





Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 14-SEP-2013 03:06
 Filename: C:\Minimus 13.05.9583\Log\O'Brien Rickers Ranch...\O'Brien Rickers Ranch #8-17_Repeat.dta Recorded on 13-SEP-2013 23:48
 System Versions: Logged with 13.05.9583 Processed with 13.05.9583 Plotted with 13.05.9583

↑ REPEAT SECTION ↑

BEFORE SURVEY CALIBRATION
 C:\Minimus 13.05.9583\Log\O'Brien Rickers Ranch #8-17\O'Brien Rickers Ranch #8-17_Main.dta

General Constants All 000 Last Edited on 13-SEP-2013,21:28

General Parameters		
Mud Resistivity	1.300	ohm-metres
Mud Resistivity Temperature	93.000	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	Density Caliper	

Rwa Parameters	
Porosity used	Base Density 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 13-SEP-2013 23:03
Reading No	Measured	Calibrated (lbs)	
1	13565.27	0.00	
2	14027.40	395.00	

Gamma Calibration MCG-D.K 469			Field Calibration on 11-SEP-2013 14:30
	Measured	Calibrated (API)	
Background	68	47	
Calibrator (Gross)	1124	772	
Calibrator (Net)	1055	725	

Gamma Constants MCG-D.K 469			Last Edited on 13-SEP-2013,07:33
Gamma Calibrator Number	GRC38		
Mud Density	1.10	gm/cc	
Caliper Source for Processing	Density Caliper		
Tool Position	Eccentred		
Concentration of KCl		kppm	
K Mud Type	Chloride		
K Mud Concentration	0.00	%	

High Resolution Temperature Calibration MCG-D.K 469			Field Calibration on 18-AUG-2013,02:35
	Measured	Calibrated(Deg F)	
Lower	50.00	50.00	
Upper	100.00	100.00	

High Resolution Temperature Constants MCG-D.K 469			Last Edited on 18-AUG-2013,02:35
Pre-filter Length	11		

SP Calibration MCG-D.K 469			Field Calibration on 12-SEP-2013 15:11
	Measured	Calibrated (mV)	
Reference 1	100.2	100.0	
Reference 2	-99.2	-100.1	

Caliper Calibration MML-A 3			Base Calibration on 15-AUG-2013 08:50	Field Calibration on 11-SEP-2013 14:21
Base Calibration				
Reading No	Measured	Calibrator Size (in)		
1	14887	5.98		
2	18120	7.97		
3	21042	9.86		
4	25322	11.92		
5	0	0.00		
6	N/A	N/A		
Field Calibration				
	Measured Caliper (in)	Actual Caliper (in)		
	5.99	5.98		

Micro Normal and Micro Inverse Calibration MML-A 3					Base Calibration on 15-AUG-2013 09:16	Field Check on 11-SEP-2013 14:19
Base Calibration						
Channel	Resistor 1	Measured Resistor 2	Calibrated (ohm-m) Resistor 1	Calibrated (ohm-m) Resistor 2		
Micro Normal	12.3	60.3	5.0	25.0		
Micro Inverse	15.7	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			

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	

Neutron Calibration MDN-A.B 66

Base Calibration on 31-JUL-2013 10:25
Field Check on 11-SEP-2013 14:35

Base Calibration		Measured		Calibrated (cps)	
	Near	Far	Near	Far	
	3180	99	3714	110	
Ratio	32.180		33.764		
Field Calibrator at Base				Calibrated (cps)	
			1617	2323	
Ratio			0.696		
Field Check				Calibrated (cps)	
			1626	2326	
Ratio			0.693		

Neutron Constants MDN-A.B 66

Last Edited on 13-SEP-2013,21:28

Neutron Source Id	P0204NN		
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	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-B.J 353

Base Calibration on 15-AUG-2013 09:33
Field Check on 11-SEP-2013 11:33

Base Calibration		Measured		Calibrated (ohm-m)	
Reference 1	0.0		0.0		
Reference 2	964.1		126.8		
Base Check			280.9		
Field Check			281.0		

FE Constants MFE-B.J 353

Last Edited on 13-SEP-2013,21:27

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 167

Base Calibration on 19-APR-2013,13:41
Field Check on 11-SEP-2013 11:22

Base Calibration		Measured		Calibrated (mmho/m)	
Test Loop Calibration					
Channel	Low	High	Low	High	
1	17.3	474.2	9.3	966.2	
2	6.3	388.4	7.6	821.4	

3	3.3	259.4	5.2	566.0
4	1.9	133.0	2.6	279.2

Array Temperature 76.8 Deg F

Channel	Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High
1	0.0	0.0	13.4	3837.8
2	0.0	0.0	29.7	3475.3
3	0.0	0.0	29.1	3051.7
4	0.0	0.0	19.8	2080.7
Deep			18.6	2048.1
Medium			42.2	3989.4
Shallow			43.1	5051.7

Array Temperature 0.0 80.9 Deg F

Induction Constants MAI-A.A 167

Last Edited on 13-SEP-2013,21:27

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	60.00	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	

High Resolution Temperature Calibration MAI-A.A 167

Field Calibration on 18-AUG-2013,02:21

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

High Resolution Temperature Constants MAI-A.A 167

Last Edited on 18-AUG-2013,02:21

Pre-filter Length 11

Caliper Calibration MPD-B 64

Base Calibration on 15-AUG-2013 14:54
Field Calibration on 11-SEP-2013 11:34

Base Calibration Reading No	Measured	Calibrator Size (in)
1	16560	3.99
2	21222	5.00

2	24992	5.98
3	32880	7.97
4	41184	9.86
5	50688	11.92
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
5.89	5.98

Photo Density Calibration MPD-B 64

Base Calibration on 15-AUG-2013 14:37
Field Check on 11-SEP-2013 14:18

Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	60206	33560	59556	30836
Reference 2	25378	2915	24941	2541

Field Check at Base

1155.1	1345.7
--------	--------

Field Check

1161.0	1348.7
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PE Calibration

Base Calibration	WS	Measured		Calibrated
		WH	Ratio	Ratio
Background	211	1029		
Reference 1	22957	60005	0.386	0.371
Reference 2	6904	25238	0.276	0.272

Field Check at Base

211.2	1028.9
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Field Check

208.9	1032.5
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Density Constants MPD-B 64

Last Edited on 13-SEP-2013,07:33

Density Source Id	18235B
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	1.10 gm/cc
Mud Density Z/A Multiplier	1.11
Mud Filtrate Density	1.00 gm/cc
Dry Hole Mud Filtrate Density	1.00 gm/cc
DNCT	0.00 gm/cc
CRCT	0.00 gm/cc
Density Z/A Correction	Hybrid

Matrix density (gm/cc)	Depth (m)
2.71	
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00

DOWNHOLE EQUIPMENT

C:\Minimus 13.05.9583\Log\O'Brien Rickers Ranch #8-17\O'Brien Rickers Ranch #8-17_Main.dta

Compact Comms Gamma
MCG-D.K 469 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in



42.87 ft
39.96 ft

GRGC - Gamma Ray
CGXT - MCG External Temperature

Compact Micro-log
MML-A 3 LG: 7.97 ft WT: 81.6 lb OD: 2.24 in

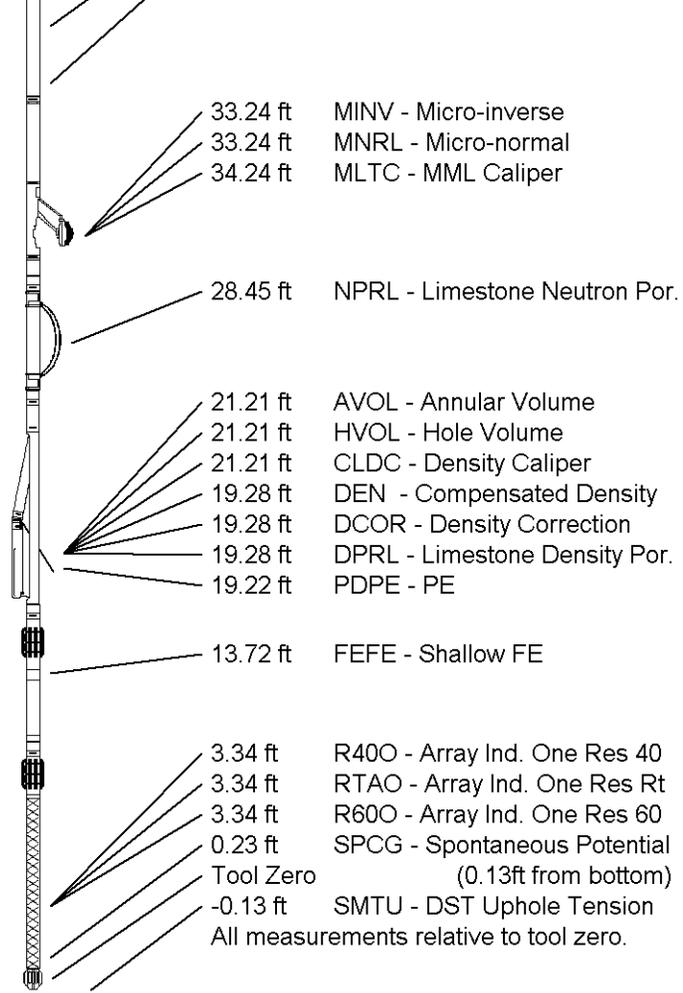
Compact Neutron
MDN-A.B 66 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper
MPD-B 64 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

Compact Focused Electric
MFE-B.J 353 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

Compact Induction
MAI-A.A 167 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 48.16 ft Weight: 383.6 lb



COMPANY O'BRIEN ENERGY RESOURCES CORP.
WELL RICKERS RANCH #8-17
FIELD ANGELL SOUTH
PROVINCE/COUNTY MEADE
COUNTRY/STATE U.S.A. / KANSAS

Elevation Kelly Bushing	2675.00	feet	First Reading	6312.00	feet
Elevation Drill Floor	2673.00	feet	Depth Driller	6315.00	feet
Elevation Ground Level	2663.00	feet	Depth Logger	6315.00	feet



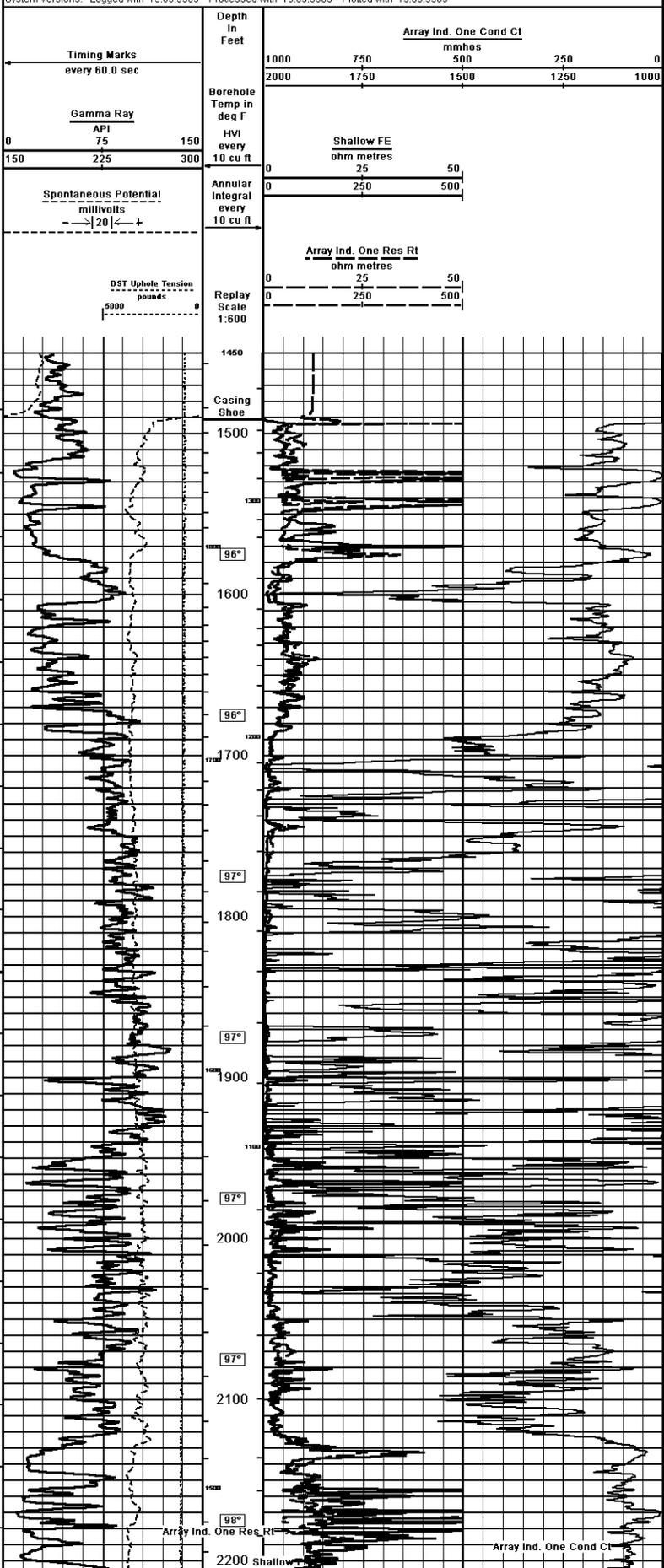
Weatherford[®]

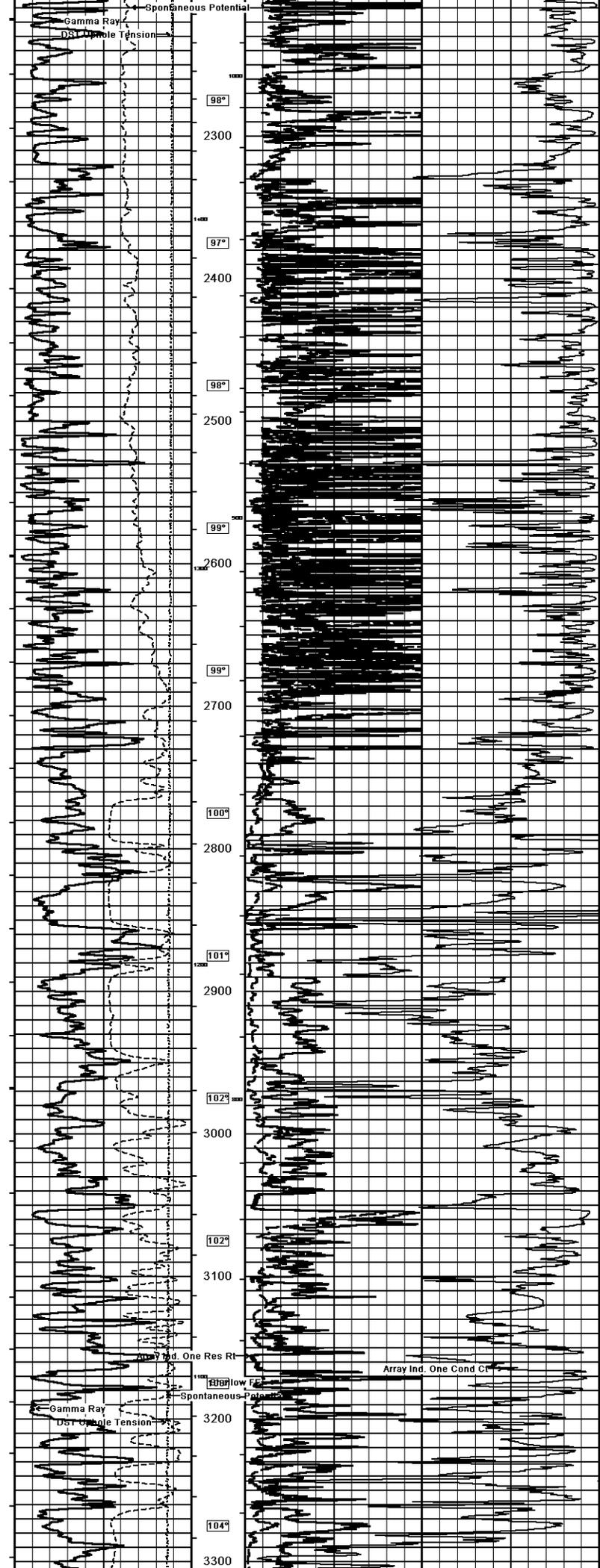
**ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG**

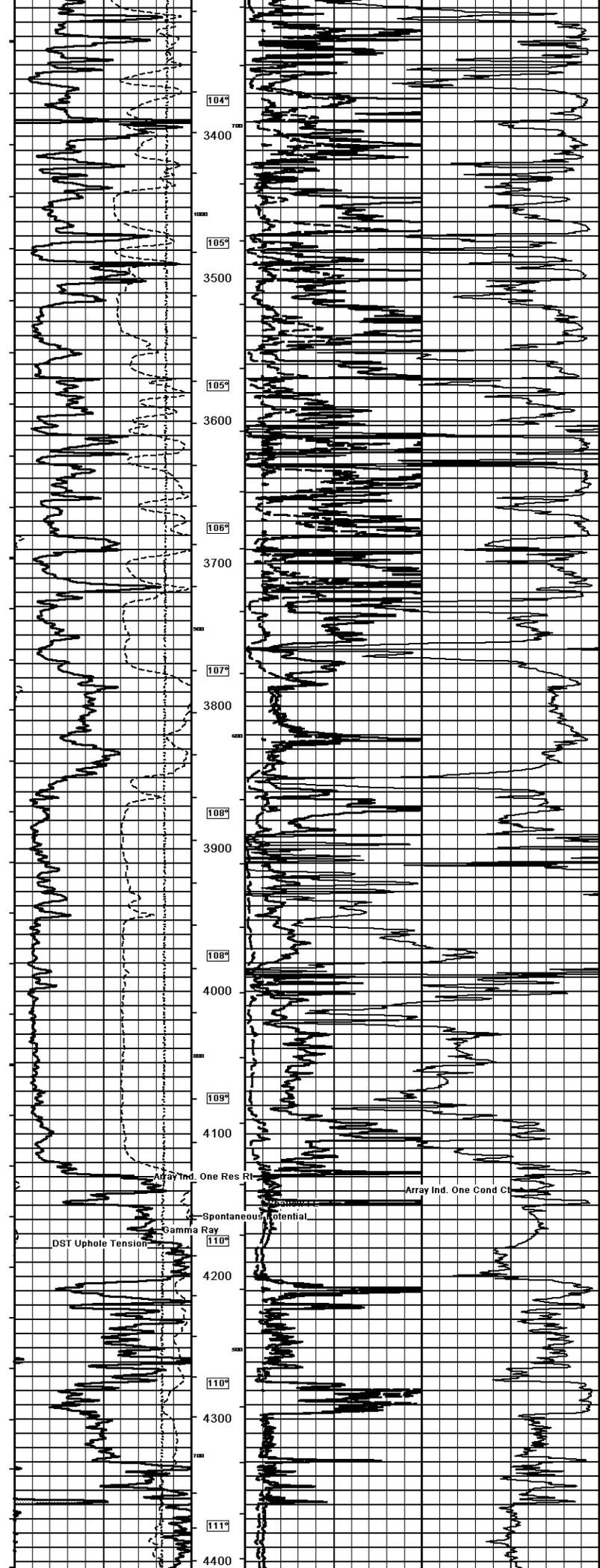
Weatherford		ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG	
COMPANY O'BRIEN ENERGY RESOURCES CORP.			
WELL RICKERS RANCH #8-17			
FIELD ANGELL SOUTH			
PROVINCE/COUNTY MEADE			
COUNTRY/STATE U.S.A. / KANSAS			
LOCATION 1980' FSL & 1780' FEL			
SEC 17	TWP 29N	Other Services	
RUN NUMBER 335	RISER 129W	MML	
PERMITS 15-119-21349	MPD/MON		
Permanent Datum OL, Elevation 2663 feet			
Logs Measured From KB			
Drilling Measured From KB@2FEET			
Date	13-SEP-2013		
Run Number	ONE		
Service Order	3541082		
Depth Driller	6315.00	feet	
Depth Logger	6315.00	feet	
First Reading	6312.00	feet	
Last Reading	1491.00	feet	
Casing Driller	1475.00	feet	
Casing Logger	1491.00	feet	
Bit Size	7.875	inches	
Hole Fluid Type	CHEMICAL		
Density/Viscosity	9.20	lb/lb gal	53.00 CP
PH/Filtrate Loss	9.50	ml/30min	
Sample Source	MUDPIT		
Rim @ Measured Temp	1.30	@ 33.0	dm-m
Rim @ Measured Temp	1.04	@ 93.0	dm-m
Rim @ Measured Temp	1.56	@ 93.0	dm-m
Source Rm/ Rmc	CALC		CALC
Rm @ BHT	0.97	@ 75.0	dm-m
Time Since Circulation	5 HOURS		
Max Recorded Temp	175.00	deg F	
Equipment/ Base	113096	LIB	
Recorded By	ROB HOFFMAN		
Witnessed By	PETER DEBRINHAM		
DOB #	181 3-286		ROBERT

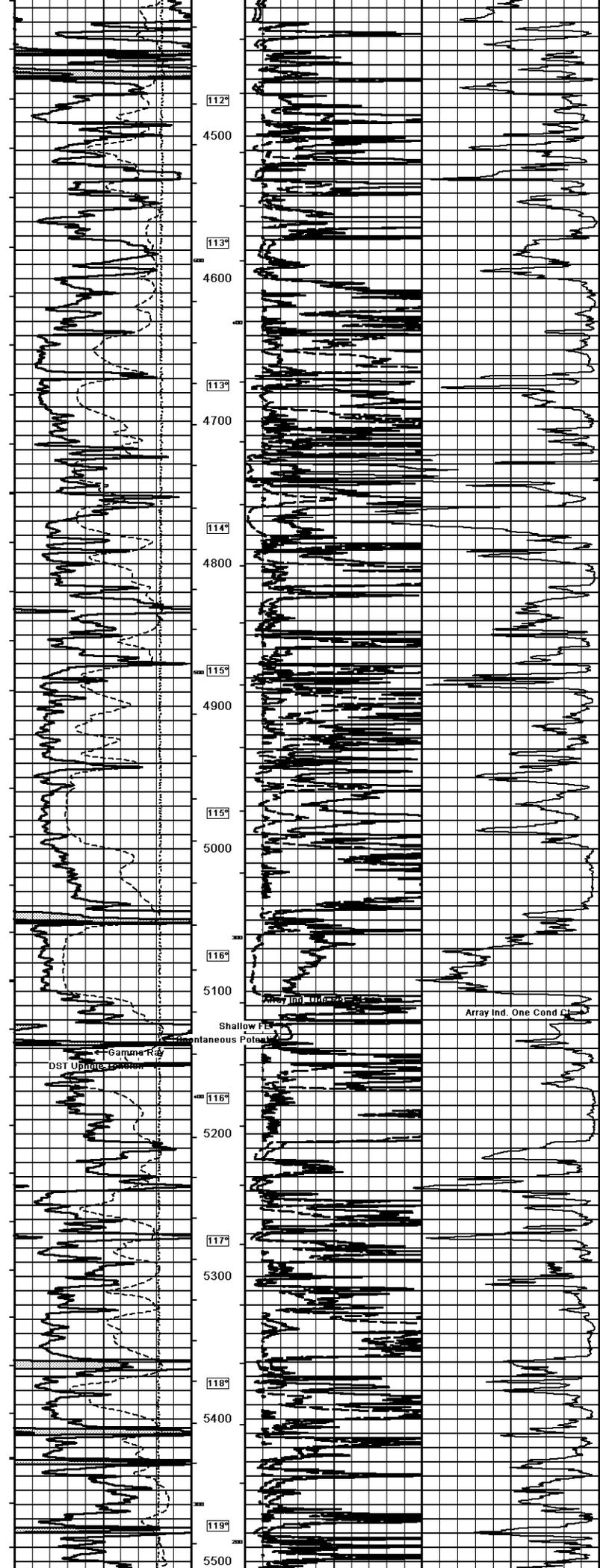
2 INCH MAIN

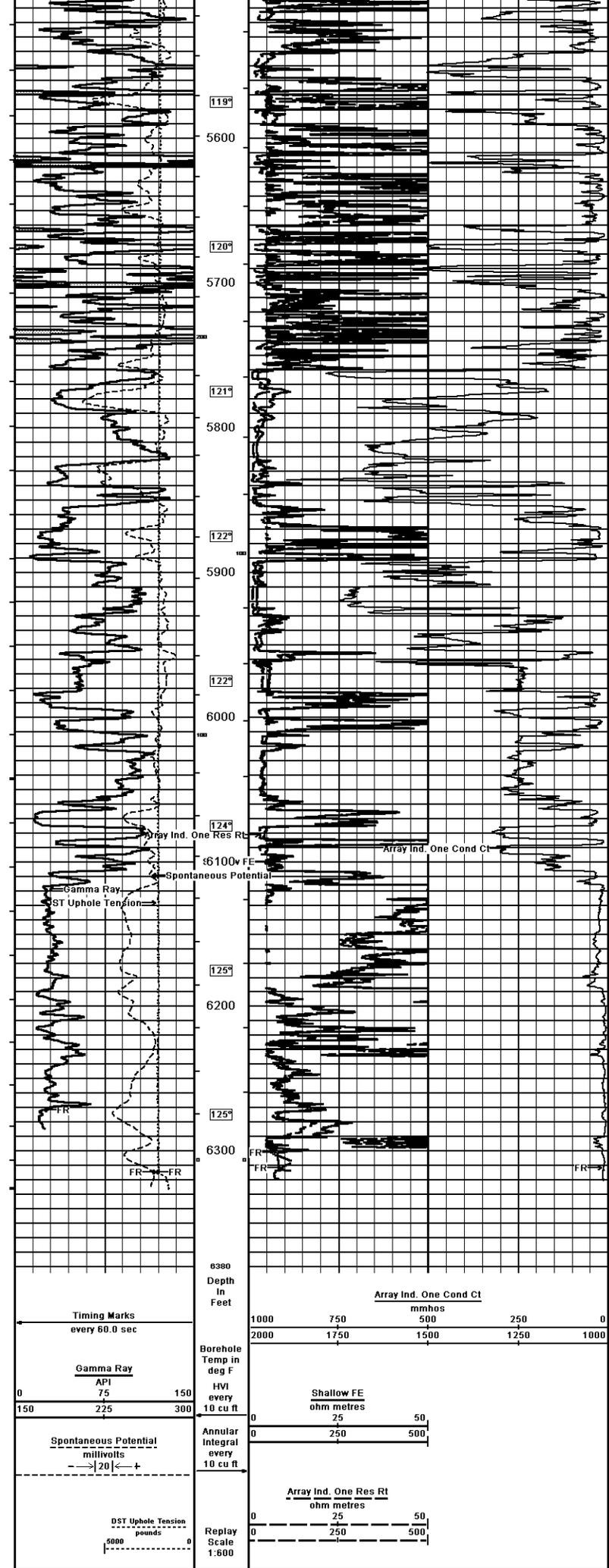
Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 14-SEP-2013 03:06
 Filename: C:\Minimus 13.05.9583\Log\O'Brien Rickers Ranch #8_10'Brien Rickers Ranch #8-17_Main.dta Recorded on 14-SEP-2013 00:38
 System Versions: Logged with 13.05.9583 Processed with 13.05.9583 Plotted with 13.05.9583











COMPANY	O'BRIEN ENERGY RESOURCES CORP.		
WELL	RICKERS RANCH #8-17		
FIELD	ANGELL SOUTH		
PROVINCE/COUNTY	MEADE		
COUNTRY/STATE	U.S.A. / KANSAS		

Elevation Kelly Bushing	2675.00	feet	First Reading	6312.00	feet
Elevation Drill Floor	2673.00	feet	Depth Driller	6315.00	feet
Elevation Ground Level	2663.00	feet	Depth Logger	6315.00	feet

	ARRAY INDUCTION
	SHALLOW FOCUSED
	ELECTRIC LOG