

**Weatherford**[®]**ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG**

COMPANY

COMANCHE RESOURCES CO., LLC

WELL

JAMES # 31-1

FIELD

WILDCAT

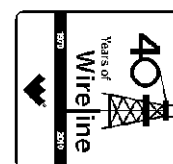
PROVINCE/COUNTY

SCOTT

COUNTRY/STATE

U.S.A. / KANSAS

LOCATION

2300' FSL & 330' FEL**S2 NE NE SE**

SEC 31 TWP 19S RGE 34W Other Services MPD/MDN MML

Permit Number

15-171-20881

Permanent Datum G.L., Elevation 3066 feet

Log Measured From KB

Drilling Measured From K.B.

Elevations:	feet
KB	3077.00
DF	3075.00
GL	3066.00

Date 22-MAY-2012

Run Number ONE

Depth Driller 5000.00 feet

Depth Logger 4992.00 feet

First Reading 4989.00 feet

Last Reading 359.00 feet

Casing Driller 362.00 feet

Casing Logger 359.00 feet

Bit Size 7.875 inches

Hole Fluid Type CHEMICAL

Density / Viscosity 9.20 lb/USg 60.00 CP

PH / Fluid Loss 11.00 5.00 ml/30Min

Sample Source FLOWLINE

Rm @ Measured Temp 0.80 @ 71.0 ohm-m

Rmf @ Measured Temp 0.64 @ 71.0 ohm-m

Rmc @ Measured Temp 0.96 @ 71.0 ohm-m

Source Rmf / Rmc CALC CALC

Rm @ BHT 0.49 @120.0 ohm-m

Time Since Circulation 5 HOURS

Max Recorded Temp 121.00 deg F

Equipment Name COMPACT

Equipment / Base 13096 LIB

Recorded By A. GIAMBALVO

Witnessed By JIM SPELLMAN

S.O. / JOB # 3534547

TROY FOWLER

LB12-131

BOREHOLE RECORD

Last Edited: 23-MAY-2012 01:35

Bit Size
inches

7.875

Depth From
feet

359.00

Depth To
feet

4992.00

CASING RECORD

Type

Size
inches

8.625

Depth From
feet

11.00

Shoe Depth
feet

359.00

Weight
pounds/ft

24.00

SURFACE

REMARKS

Tools Used: MPD, MCG, MDN, MFE, MAI, MML.

Hardware: MPD: 8 inch profile plate used. MAI_MFE: 0.5 Inch standoffs used. MDN: Dual Bowspring used.

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.

Annular volume with 5.5 inch production casing = 202 cu. ft.

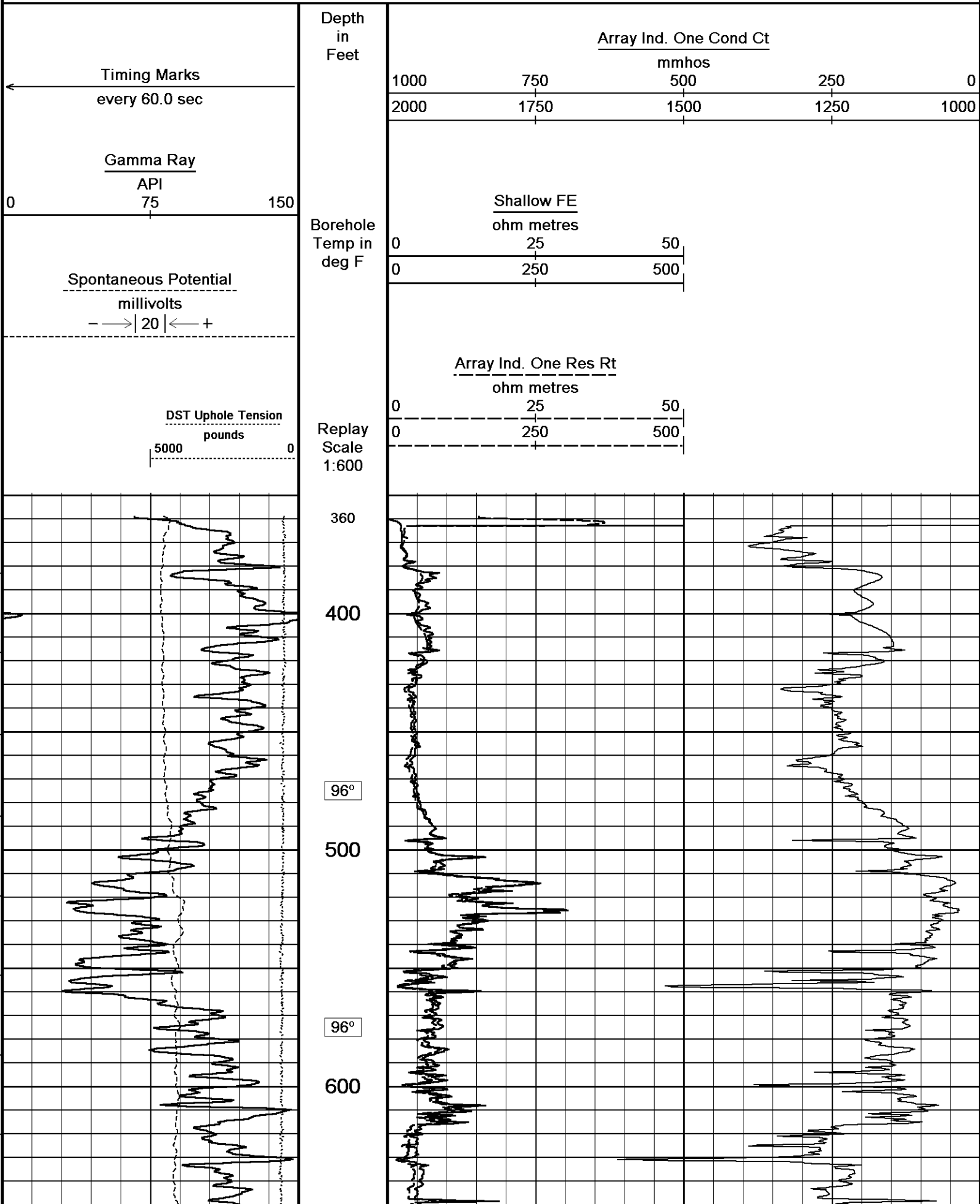
Service order #3534547

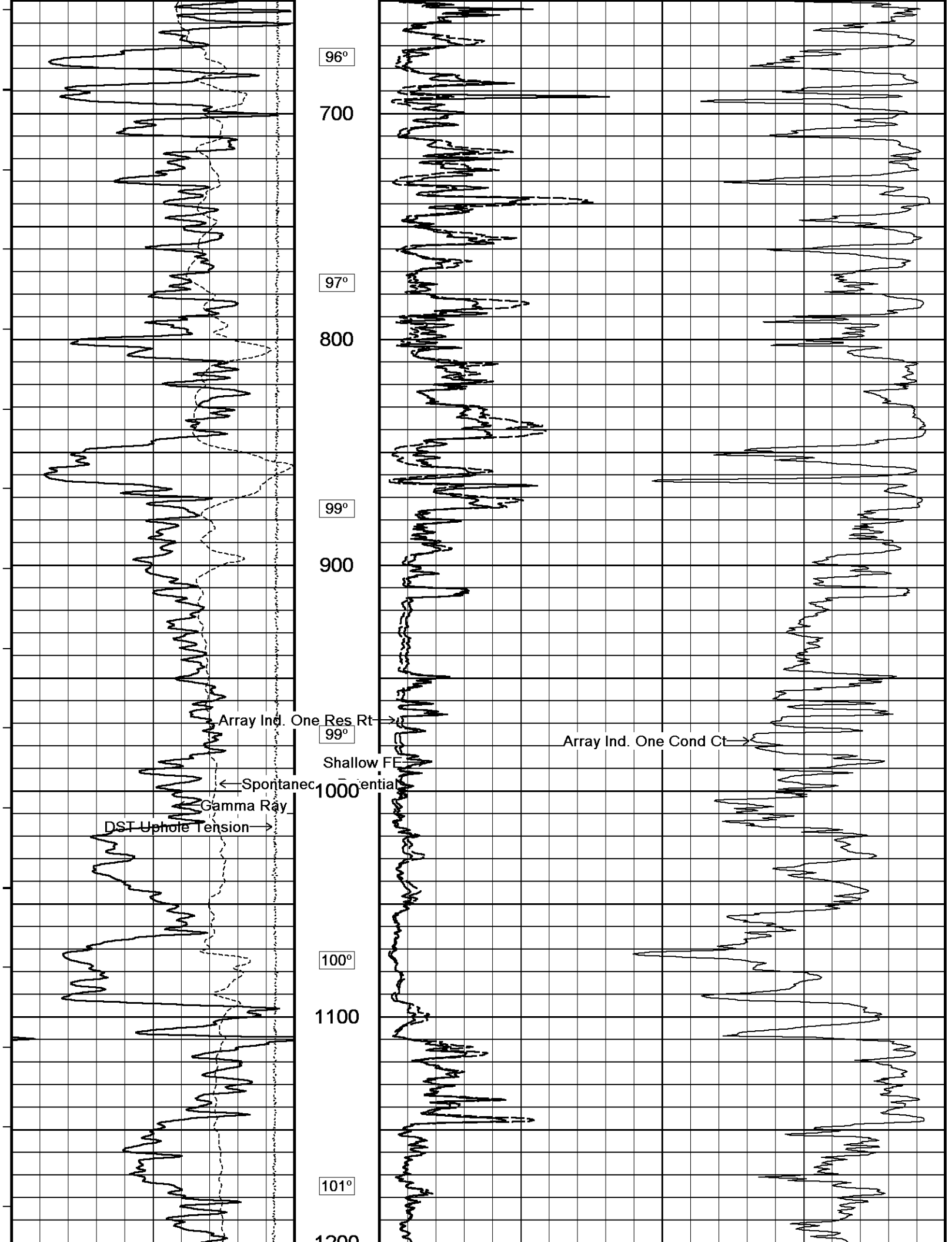
Rig: Murfin Drilling Rig #2

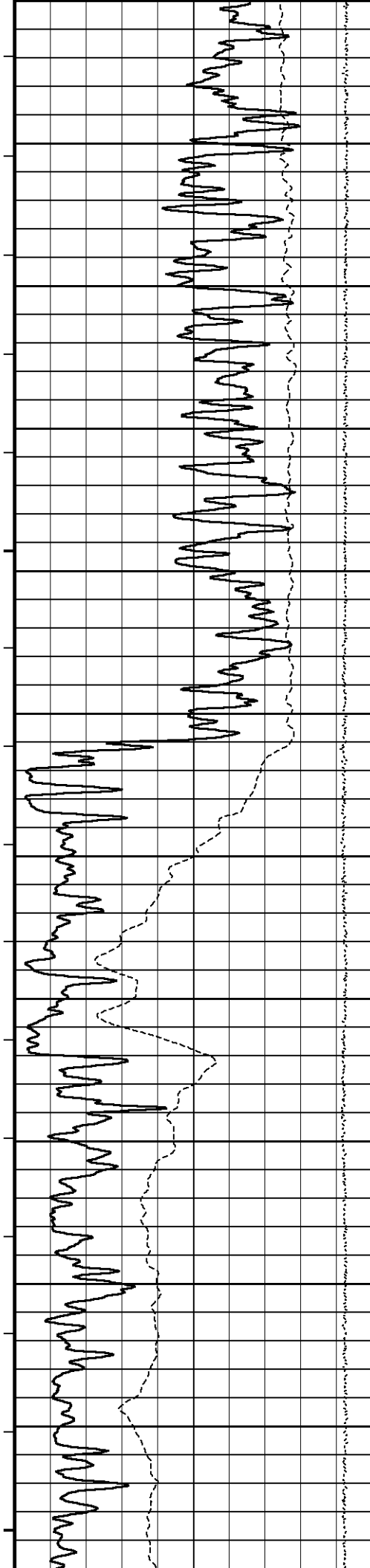
Engineer: A. Giambalvo

Operator(s): N. Adame

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.







1200

101°

1300

101°

1400

101°

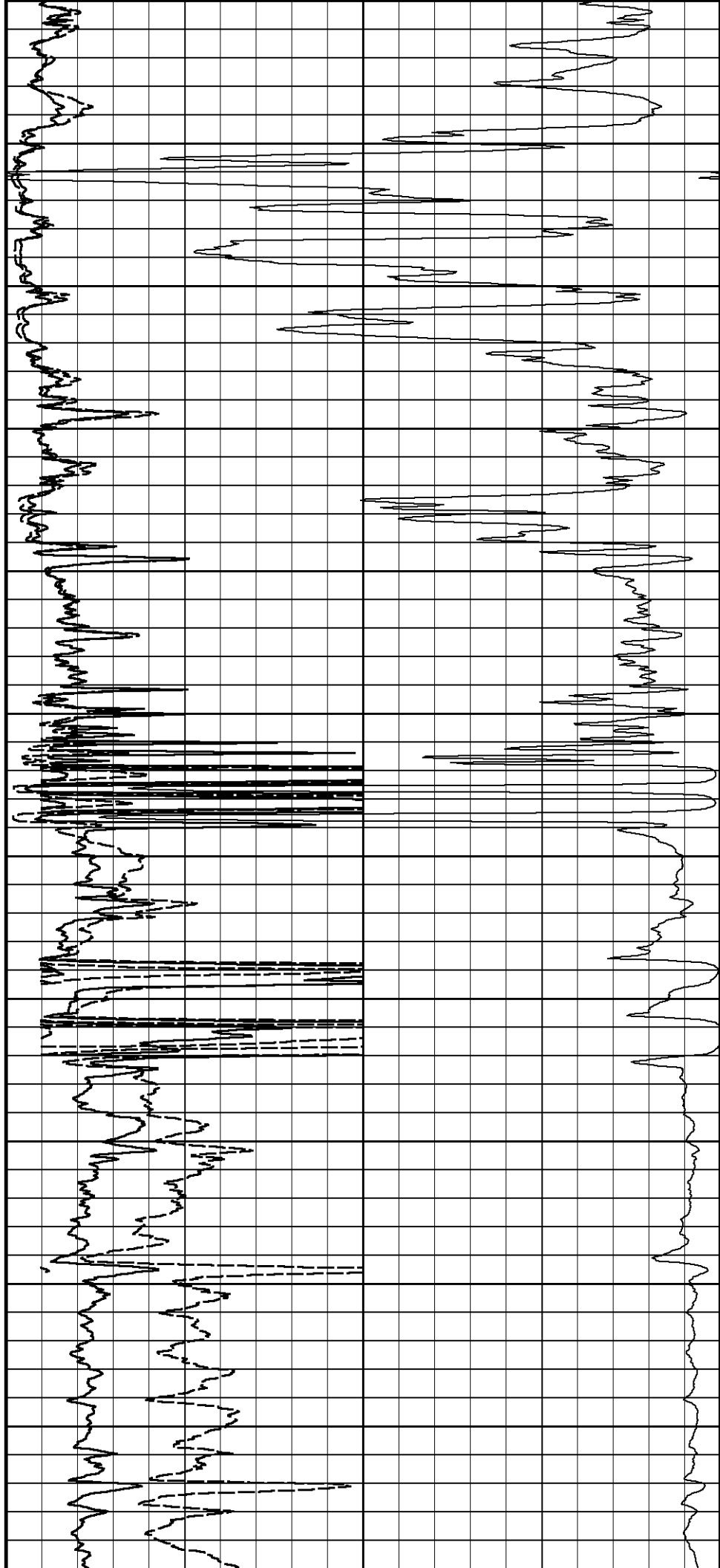
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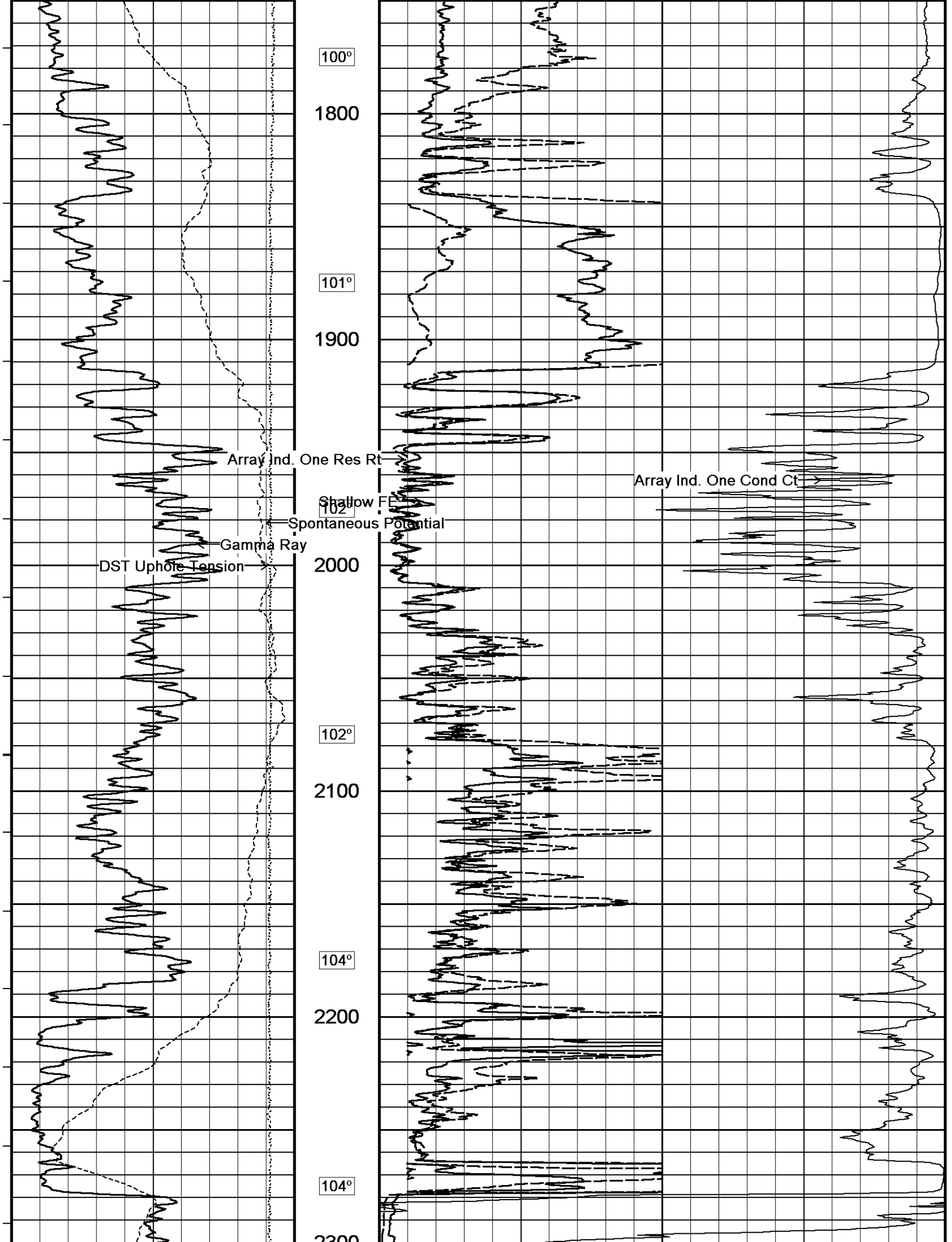
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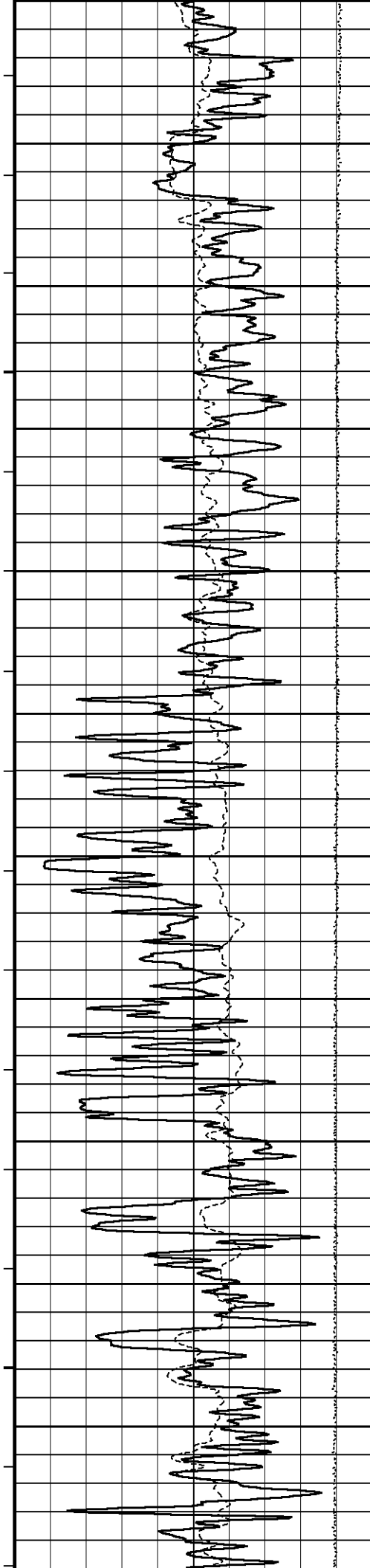
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100°

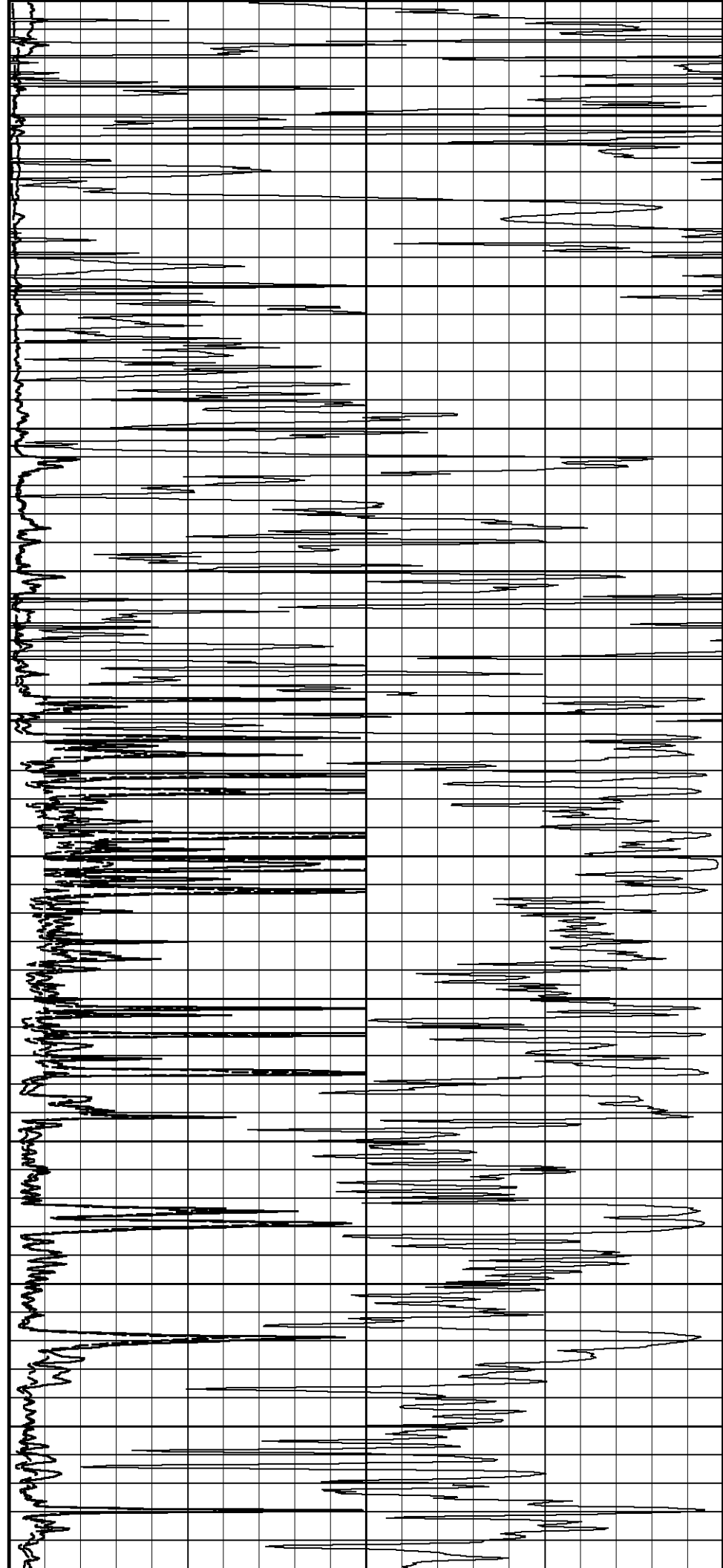
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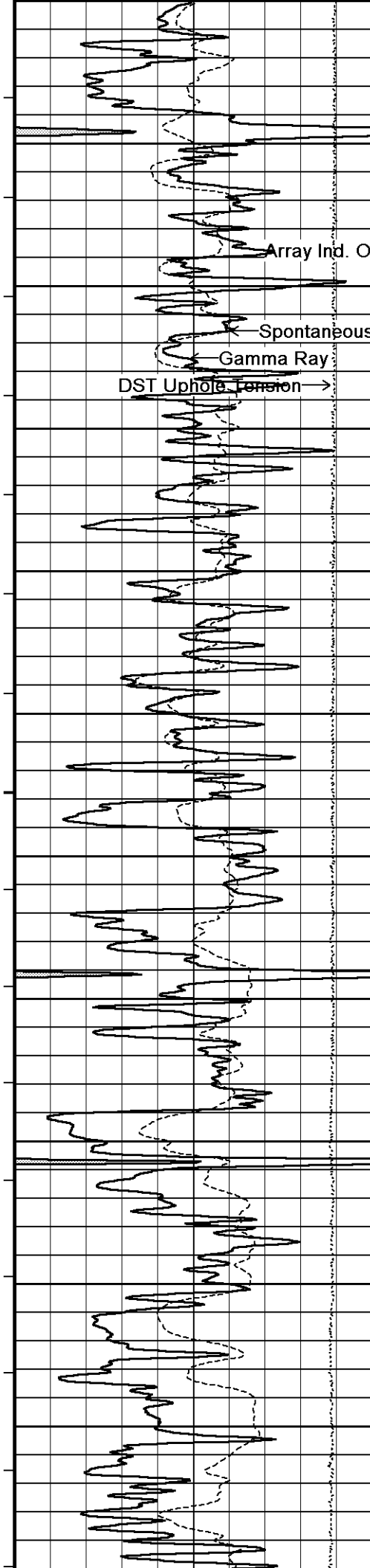






2300
104°
2400
105°
2500
105°
2600
106°
2700
106°
2800





107°

2900

Array Ind. One Res Rt

Shallow FE

Spontaneous Potential

Gamma Ray

DST Uphole Tension

107°

3000

108°

3100

109°

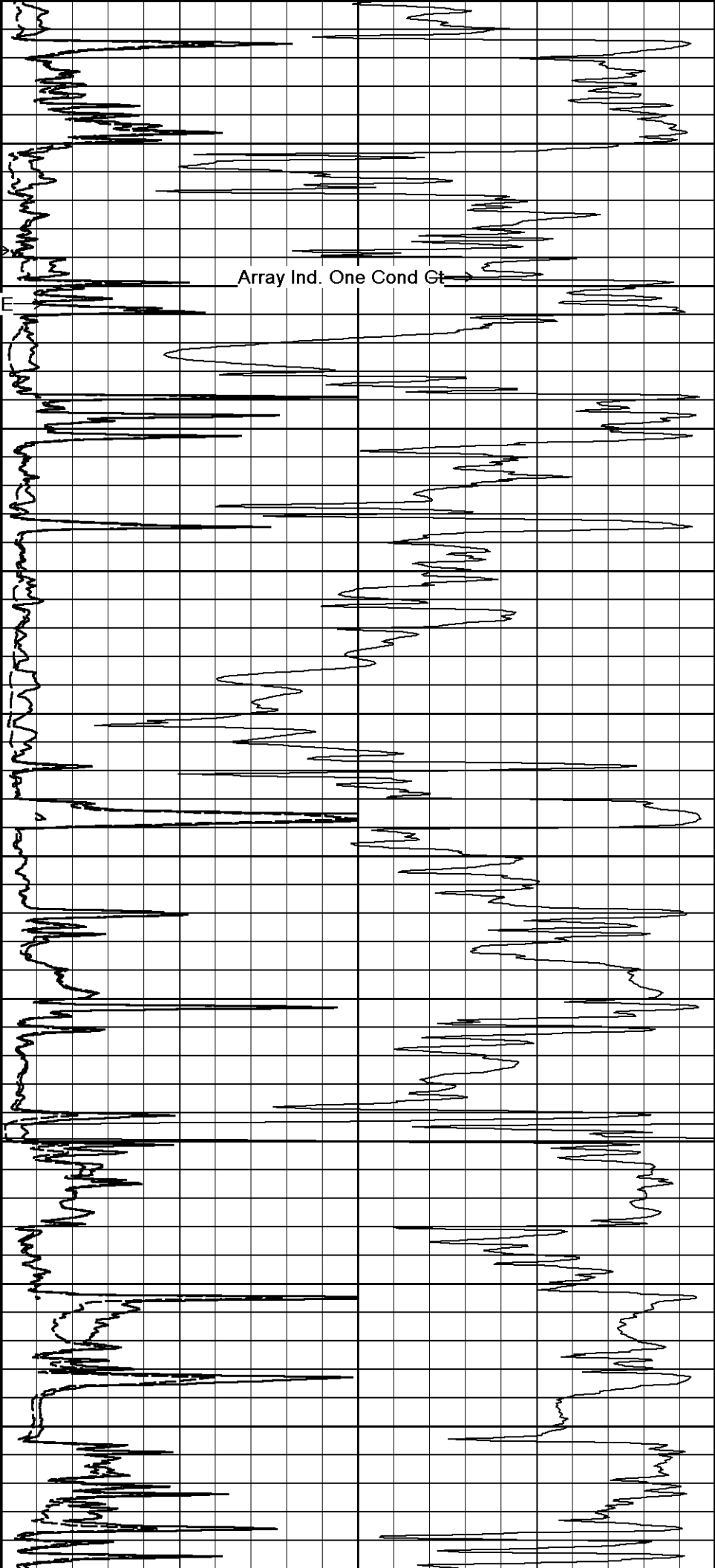
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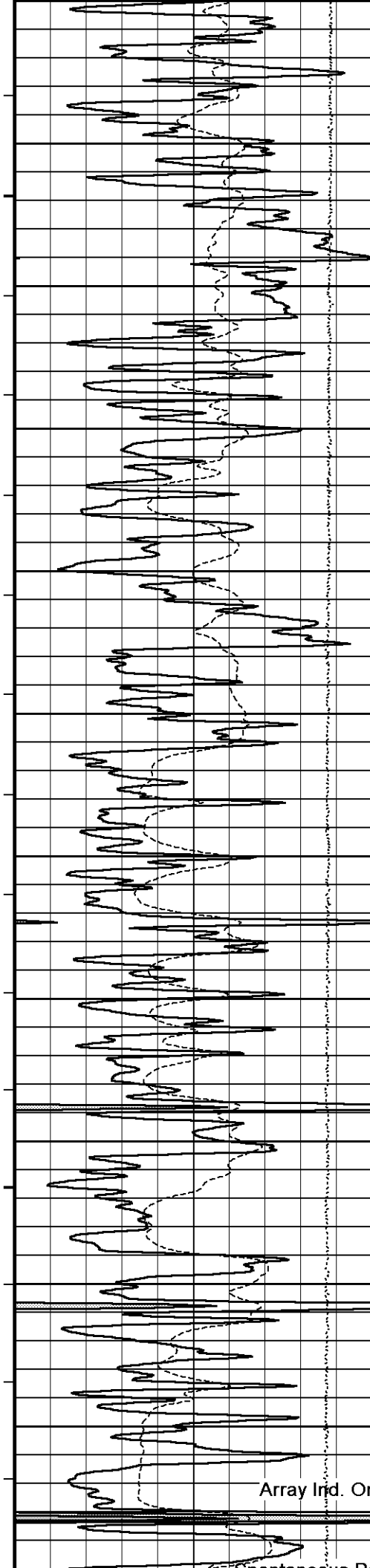
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3300

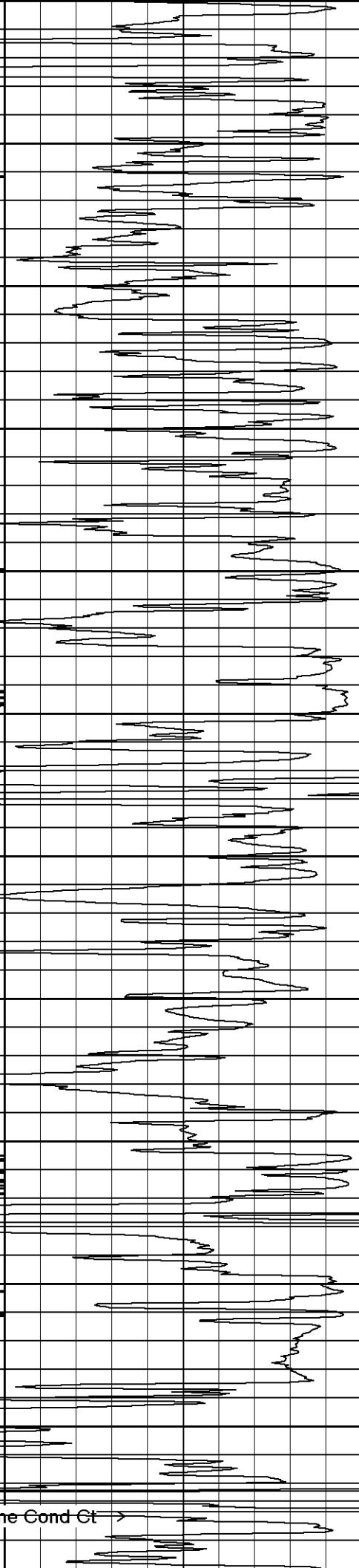
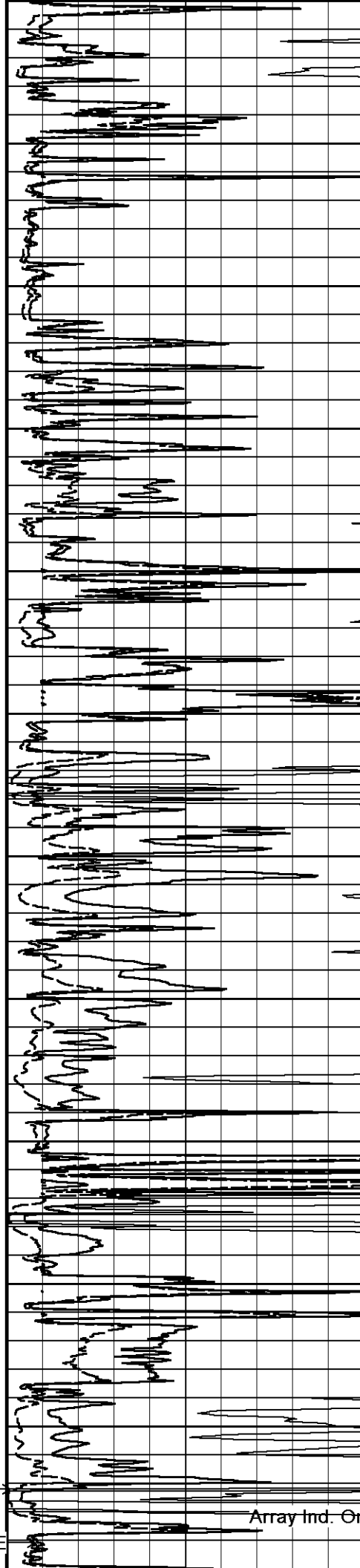
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3400





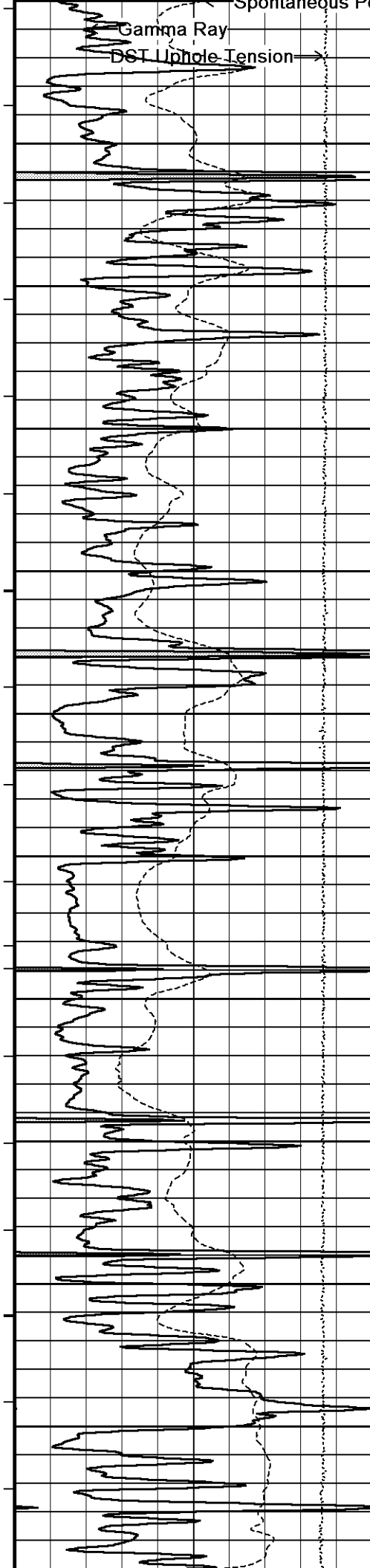
3400
110°
3500
111°
3600
111°
3700
112°
3800
112°
3900



Array Ind. One Res Rt

Array Ind. One Cond Ct

Shallow FE



113°

4000

113°

4100

114°

4200

114°

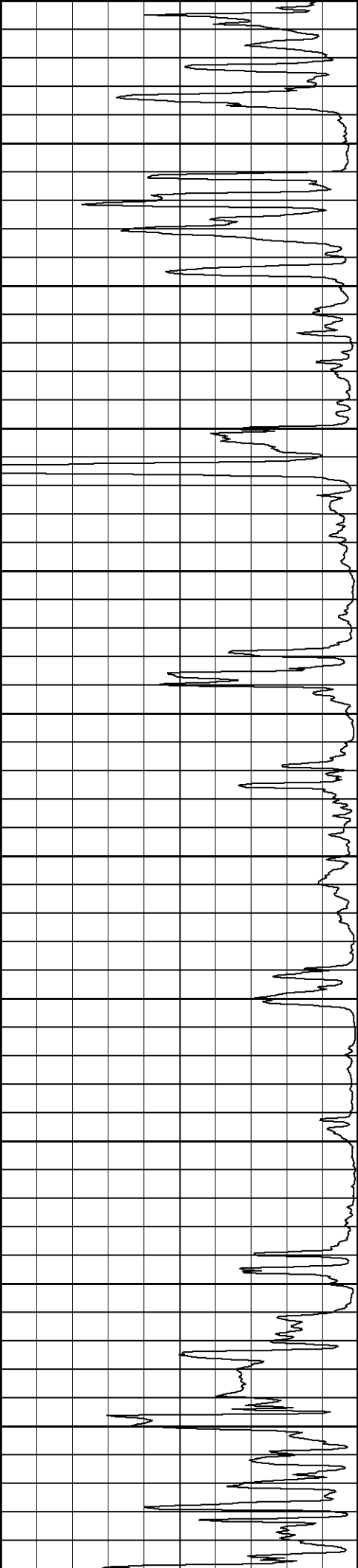
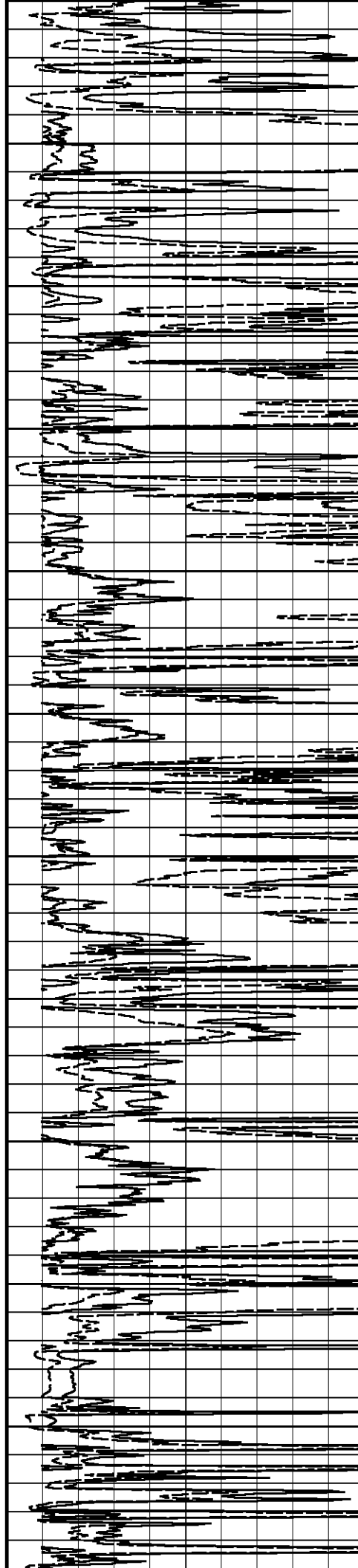
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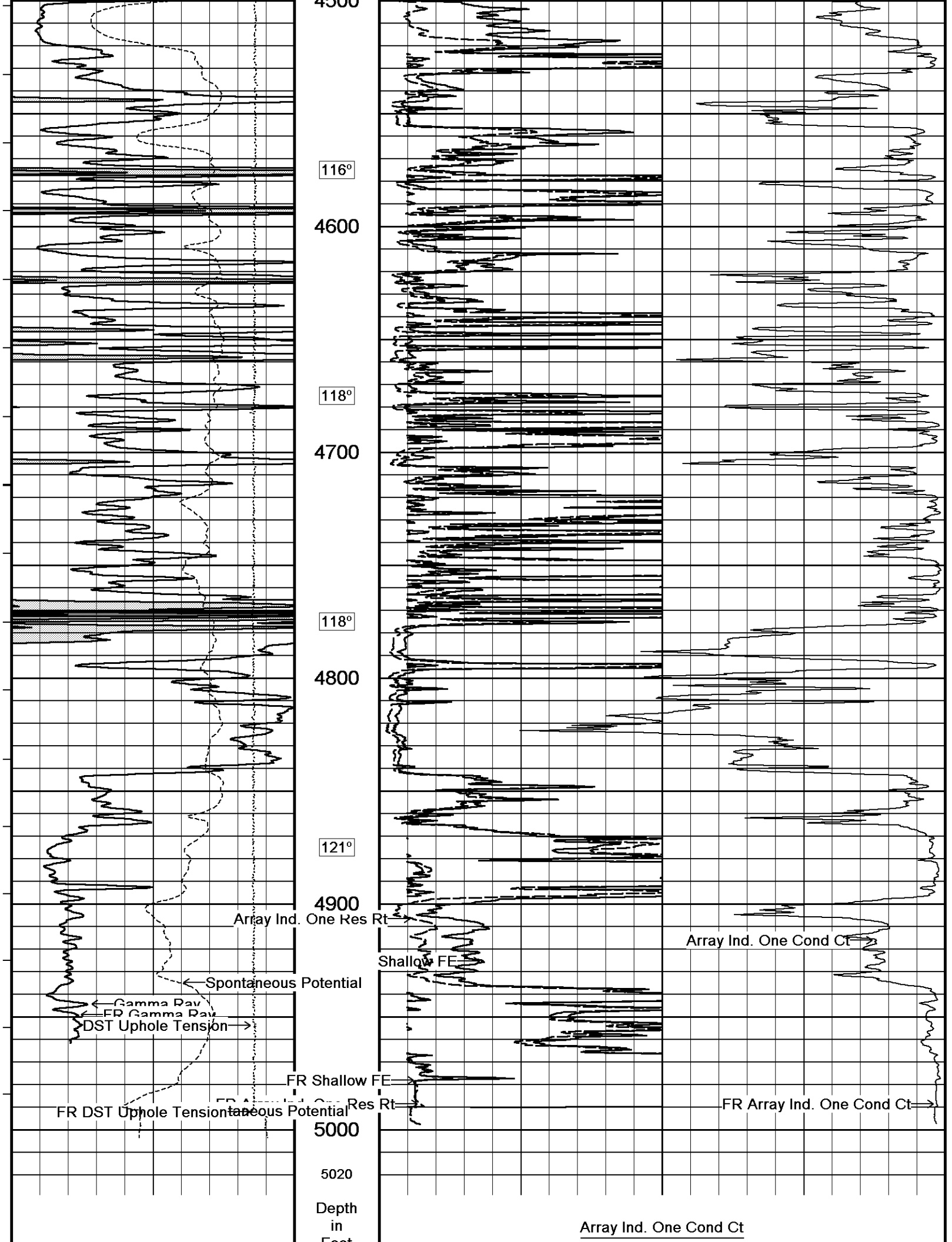
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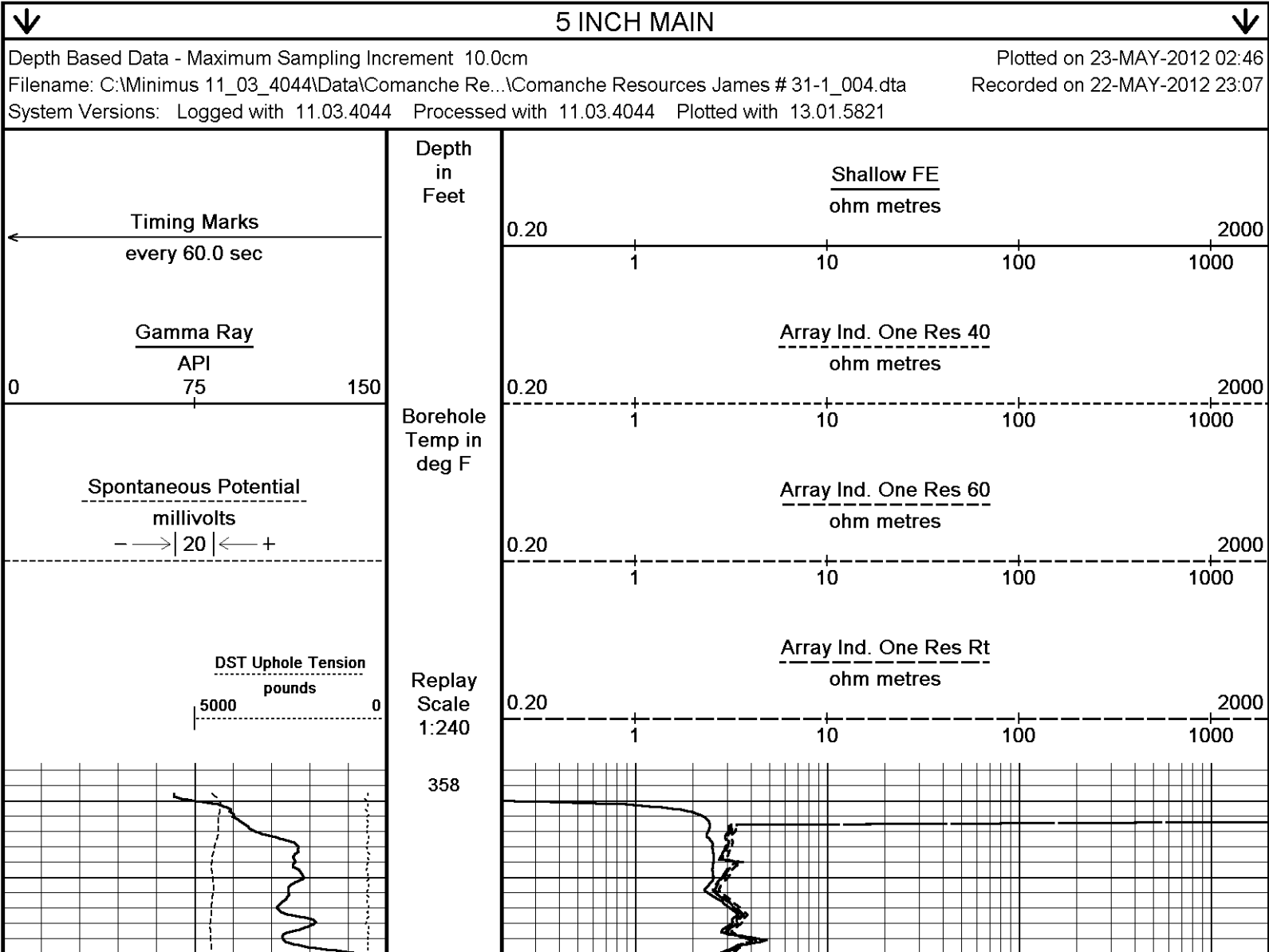
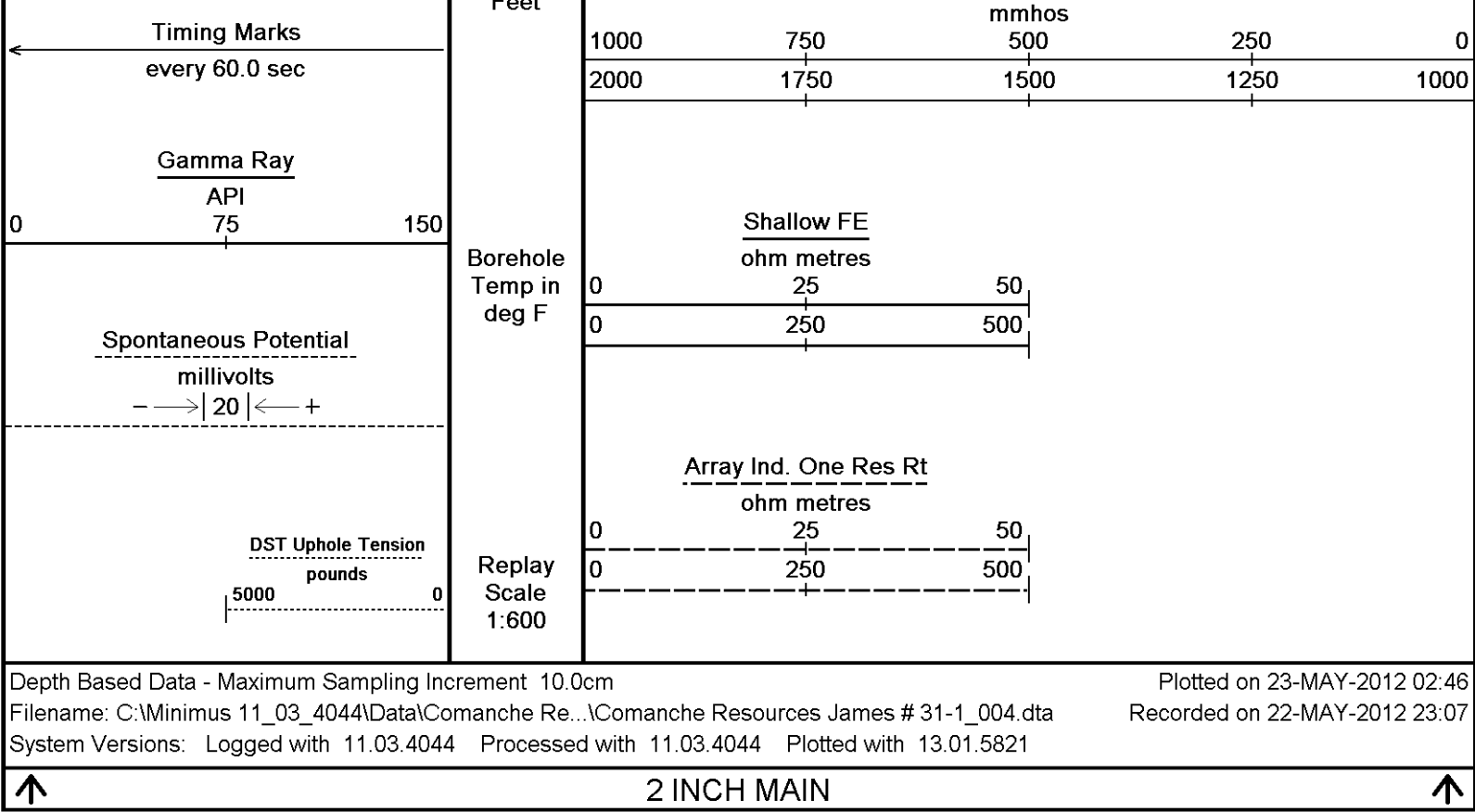
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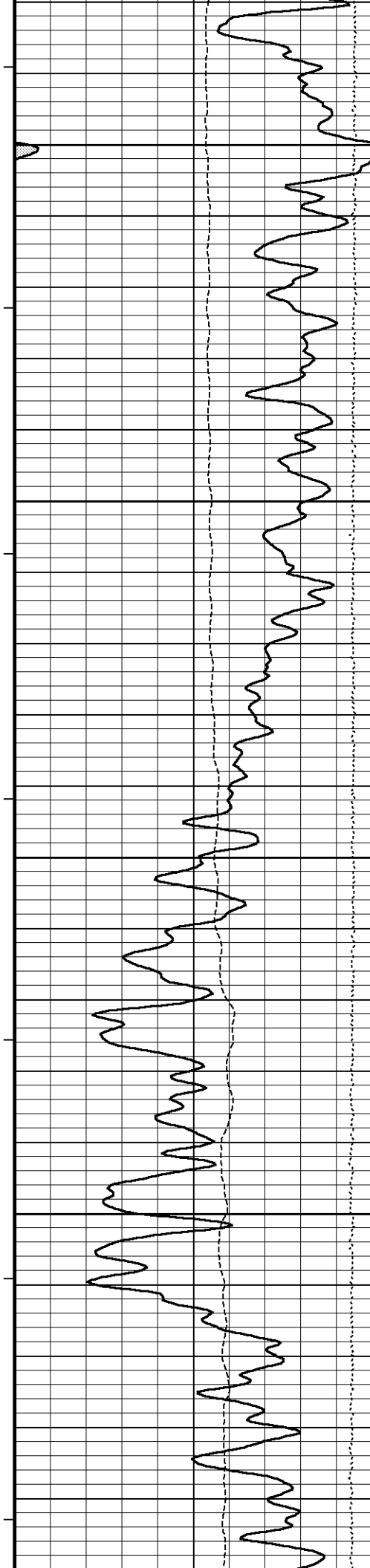
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4500









400

96°

450

96°

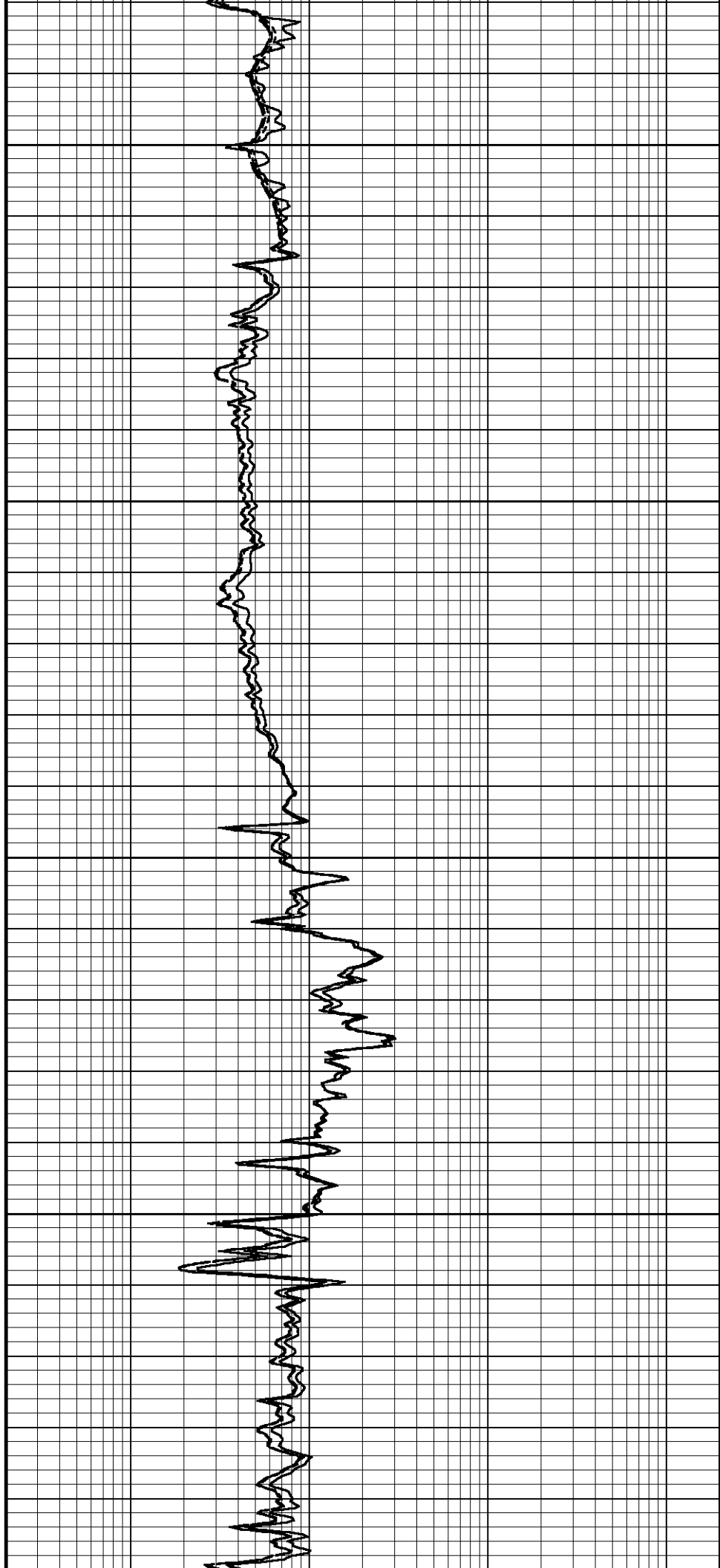
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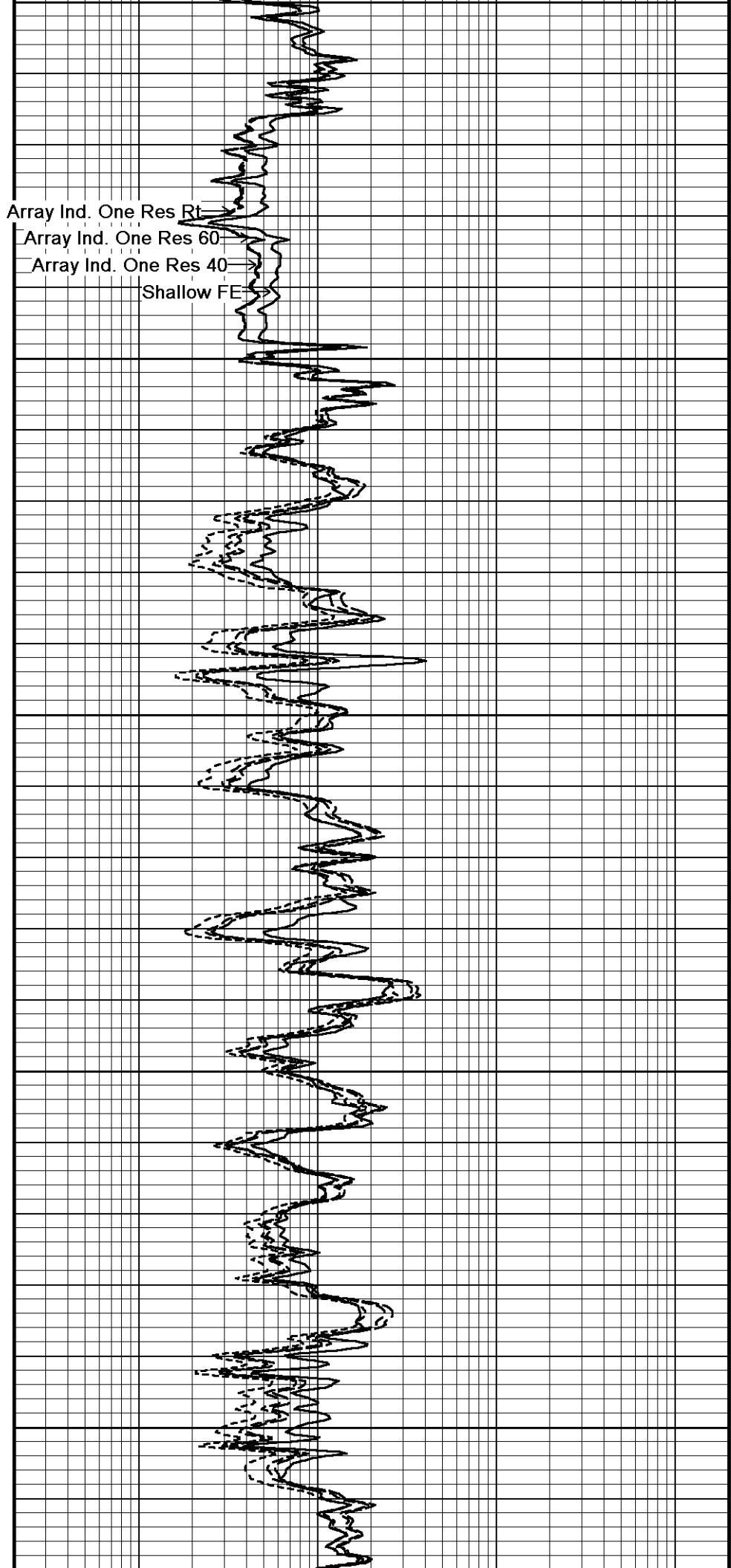
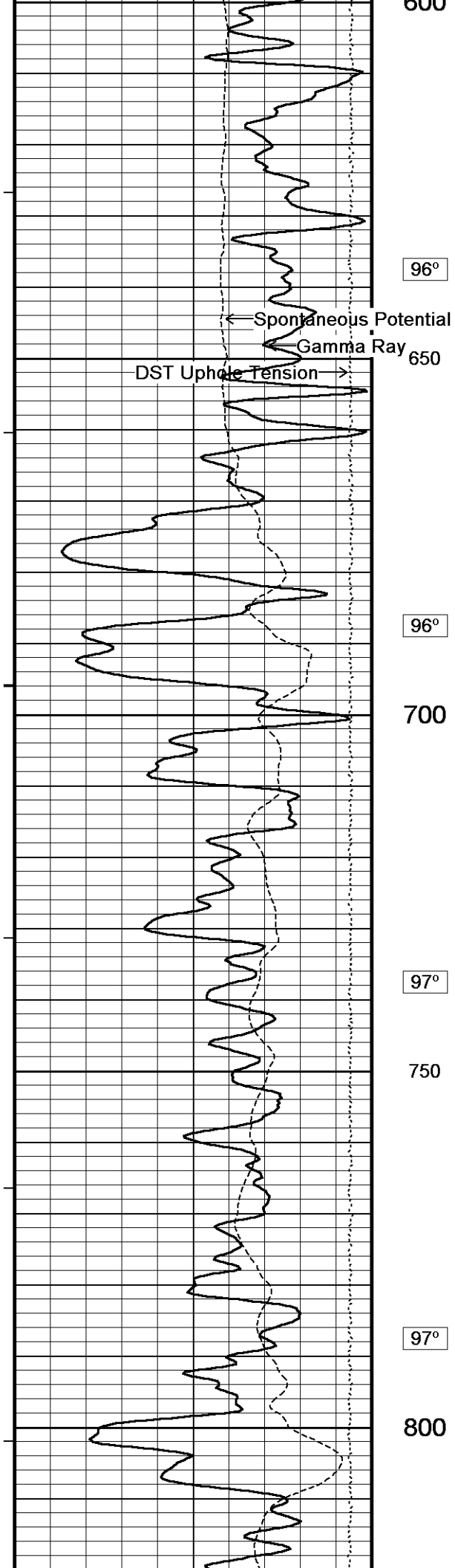
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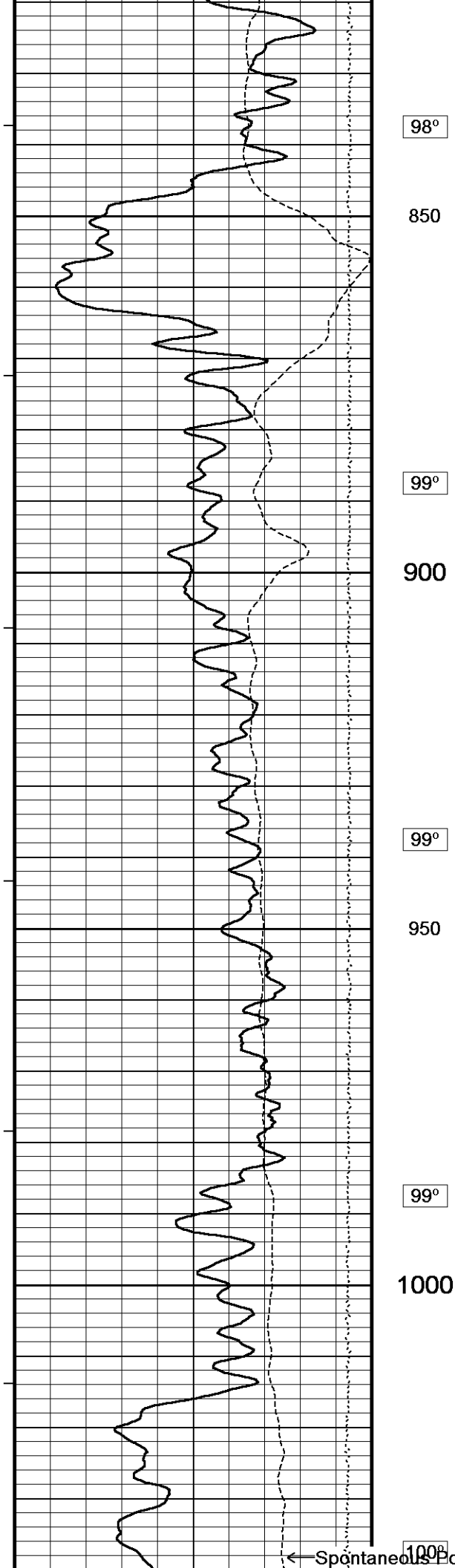
550

96°

600







98°

850

99°

900

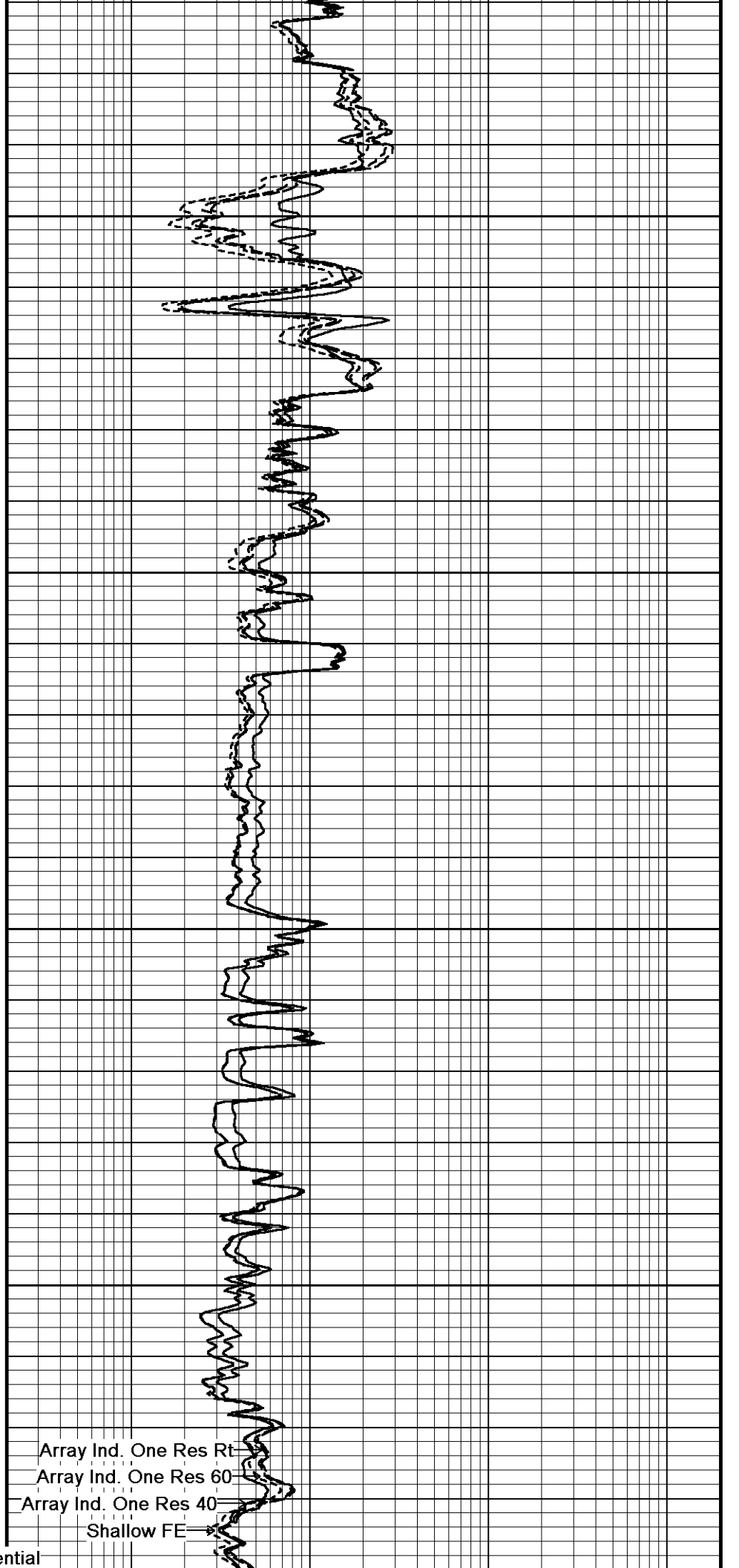
99°

950

99°

1000

← Spontaneous Potential

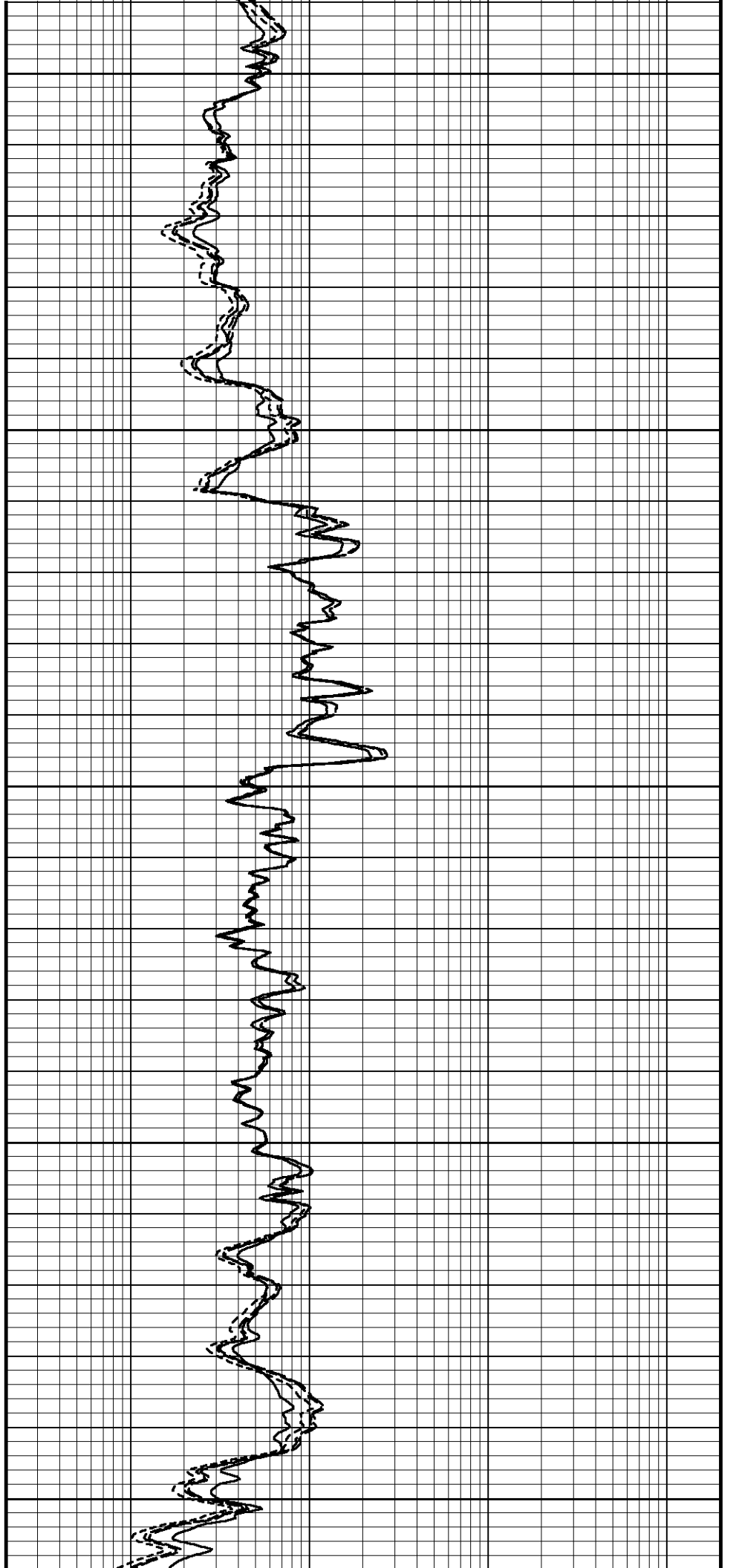
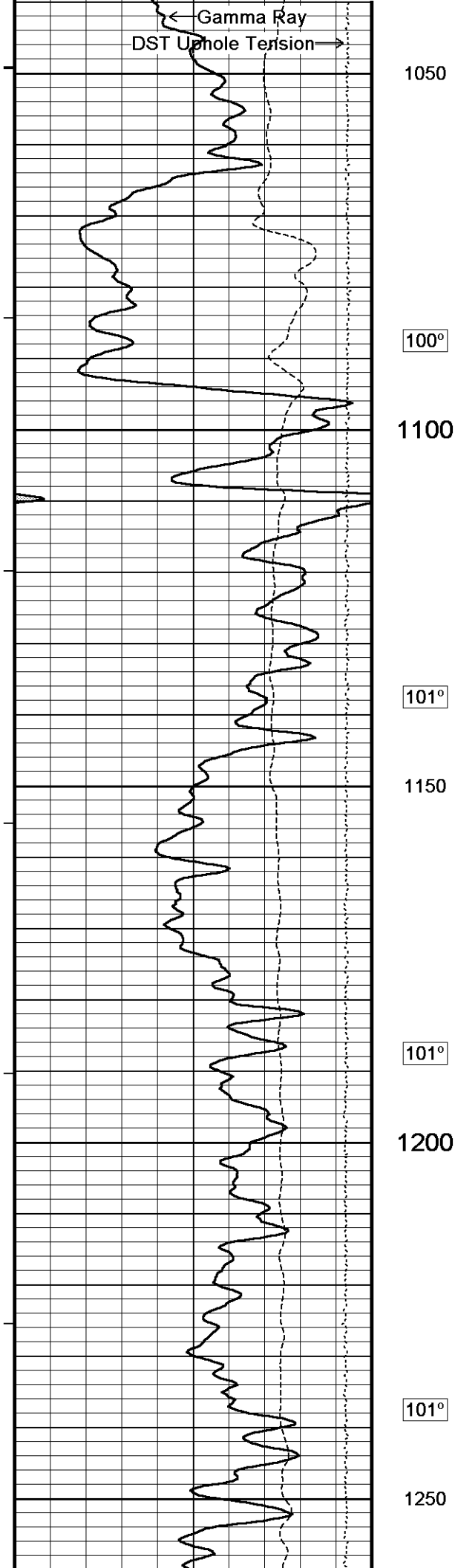


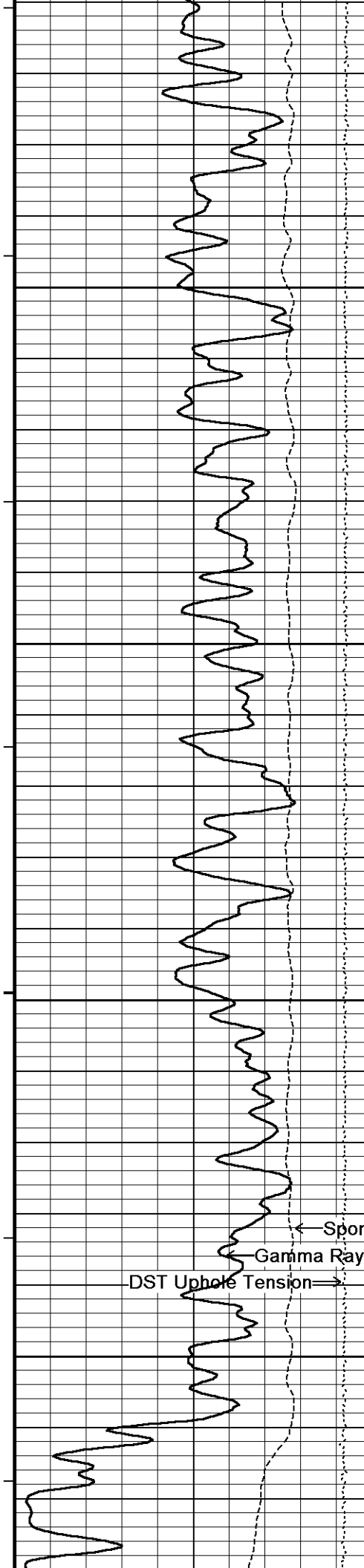
Array Ind. One Res Rt

Array Ind. One Res 60

Array Ind. One Res 40

Shallow FE





101°

1300

101°

1350

101°

1400

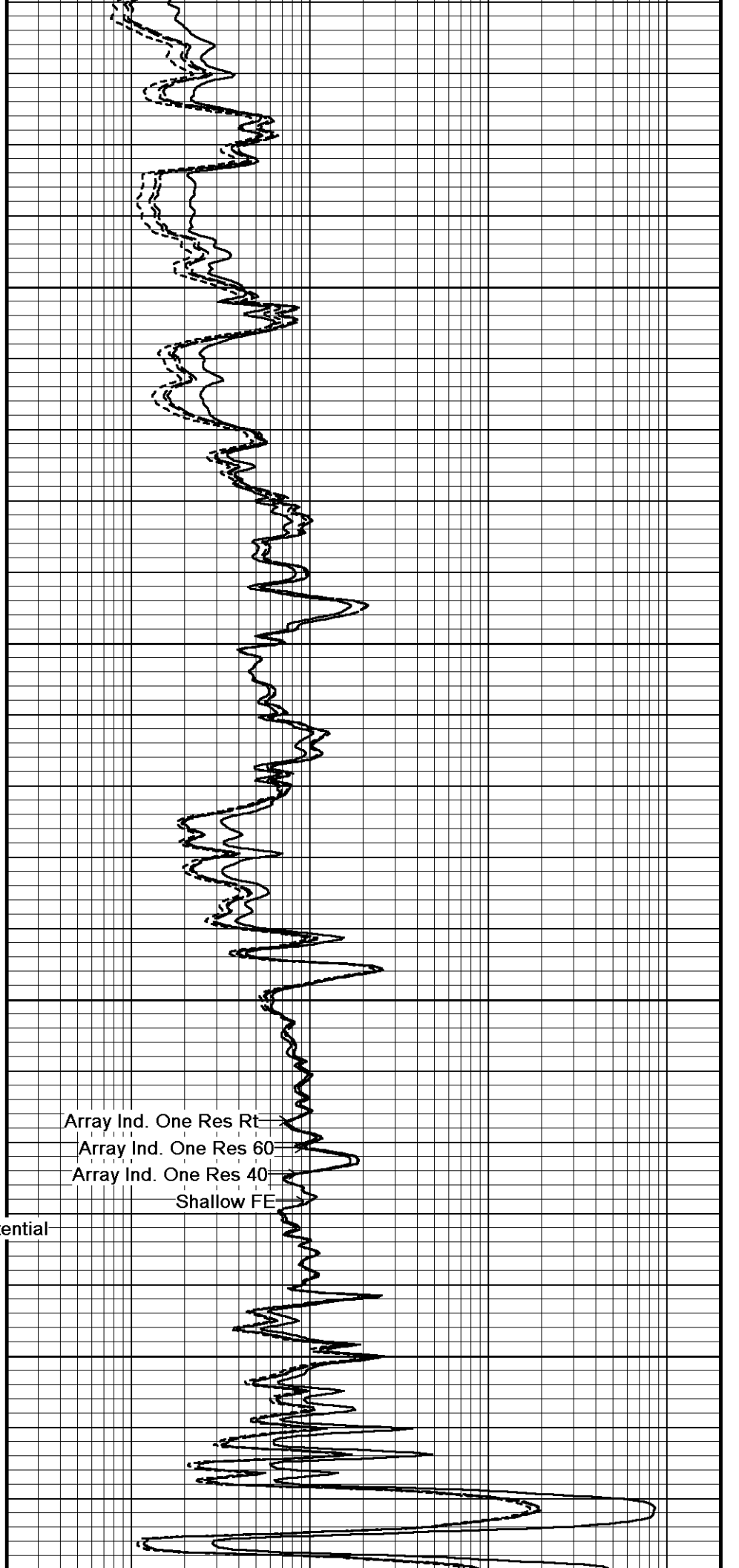
← Spontaneous Potential

Gamma Ray

DST Uphole Tension →

101°

1450

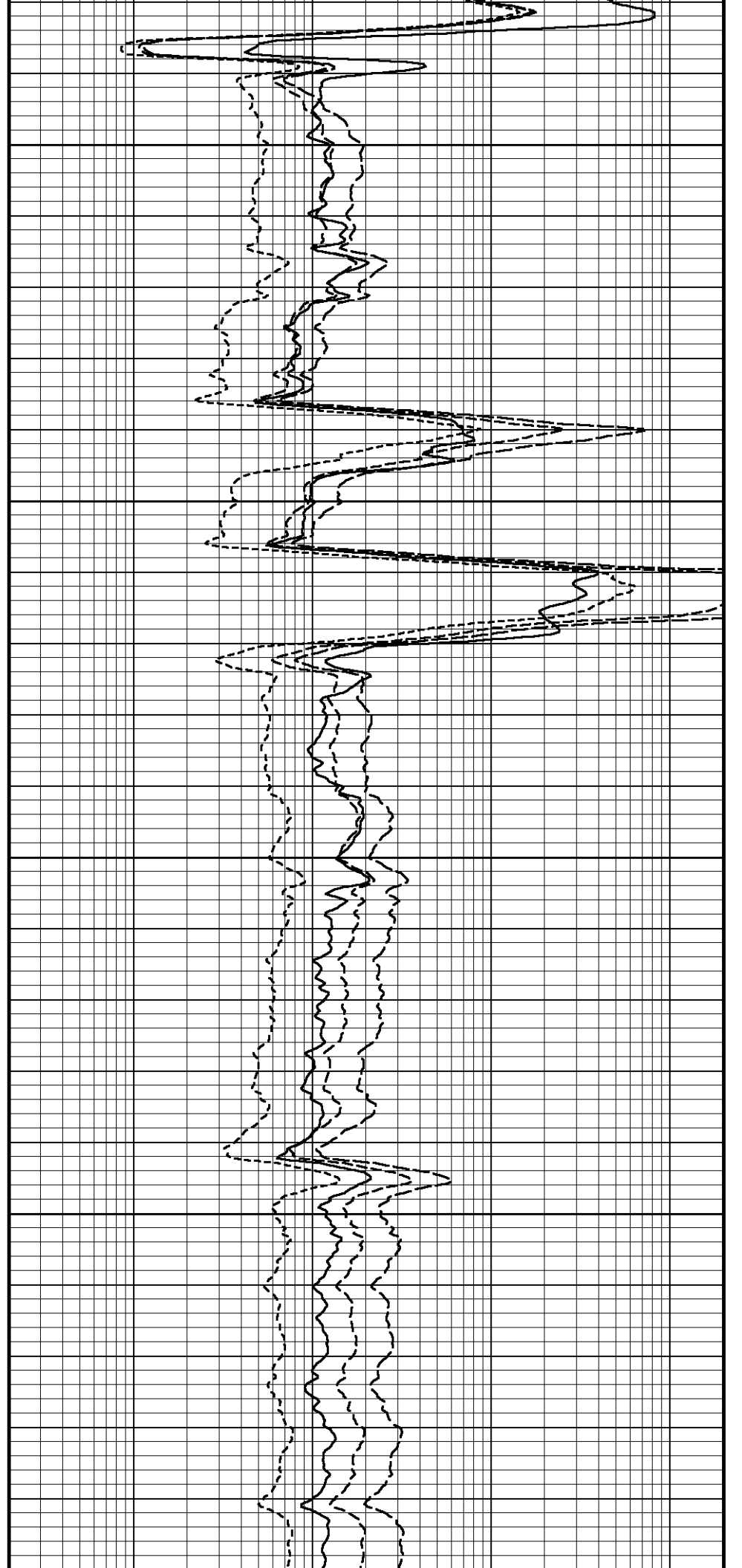
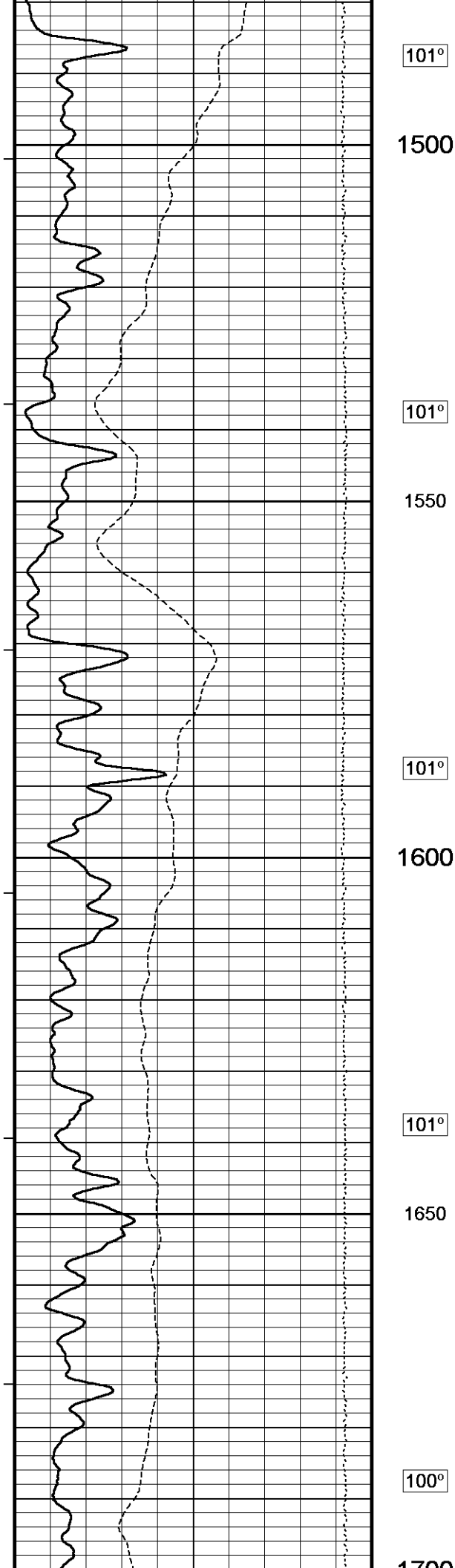


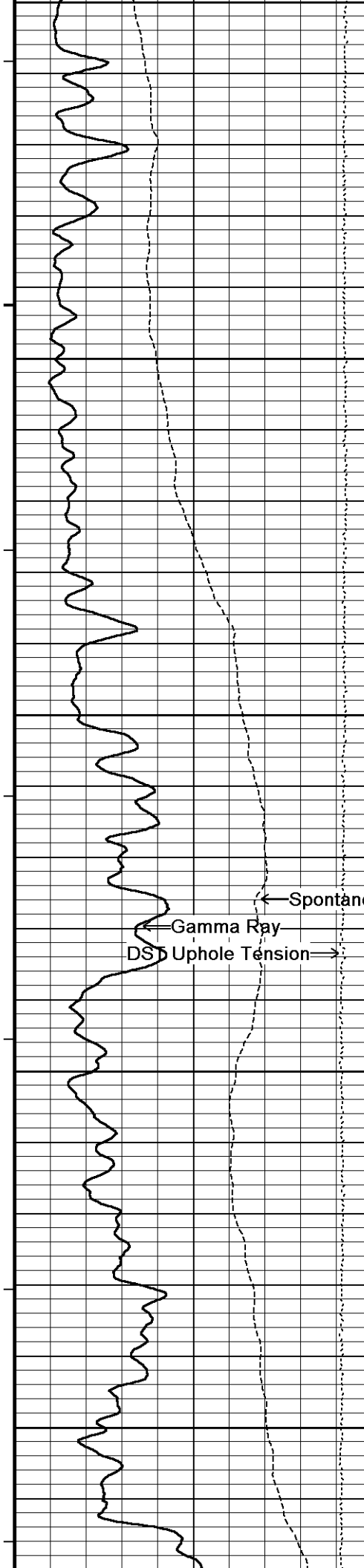
Array Ind. One Res Rt

Array Ind. One Res 60

Array Ind. One Res 40

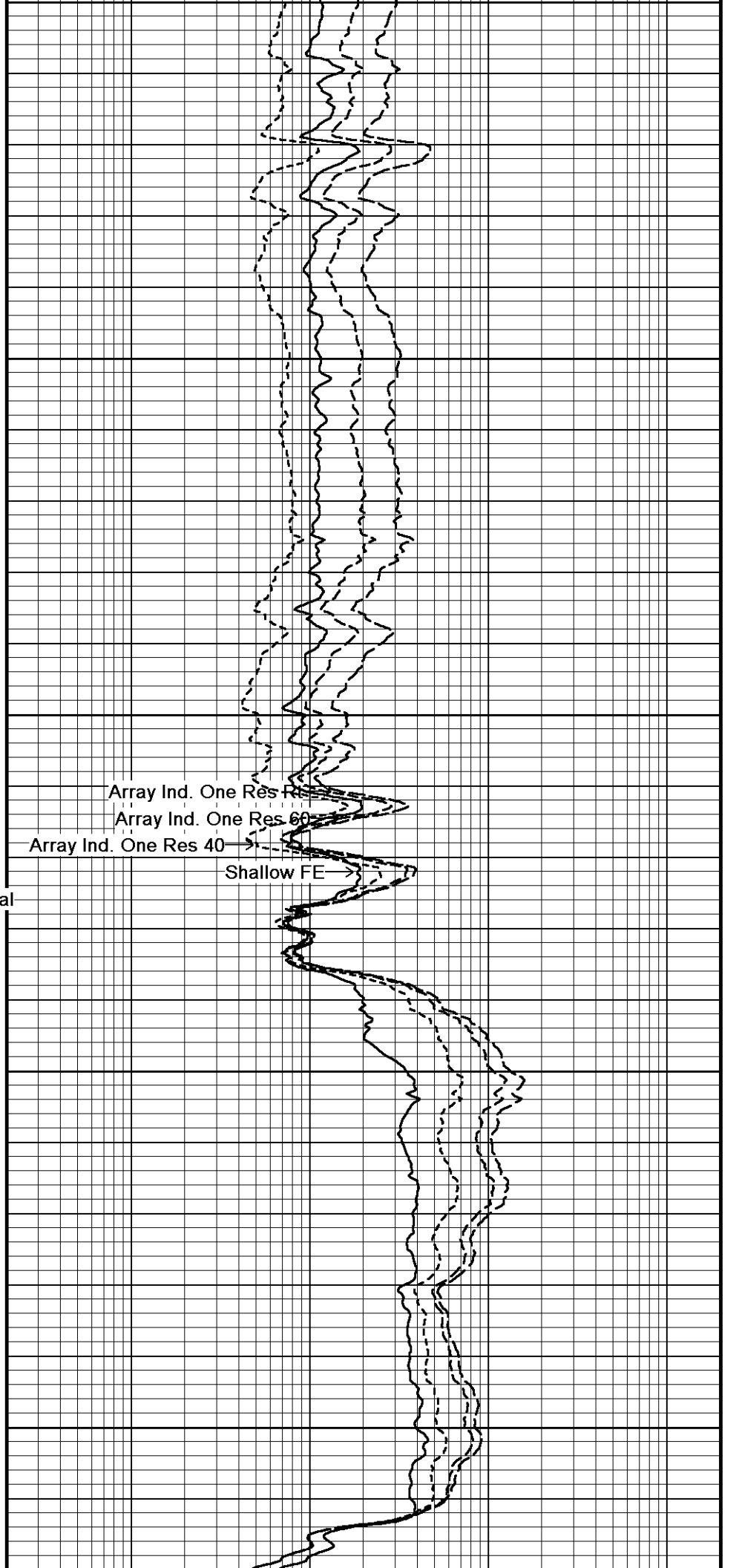
Shallow FE



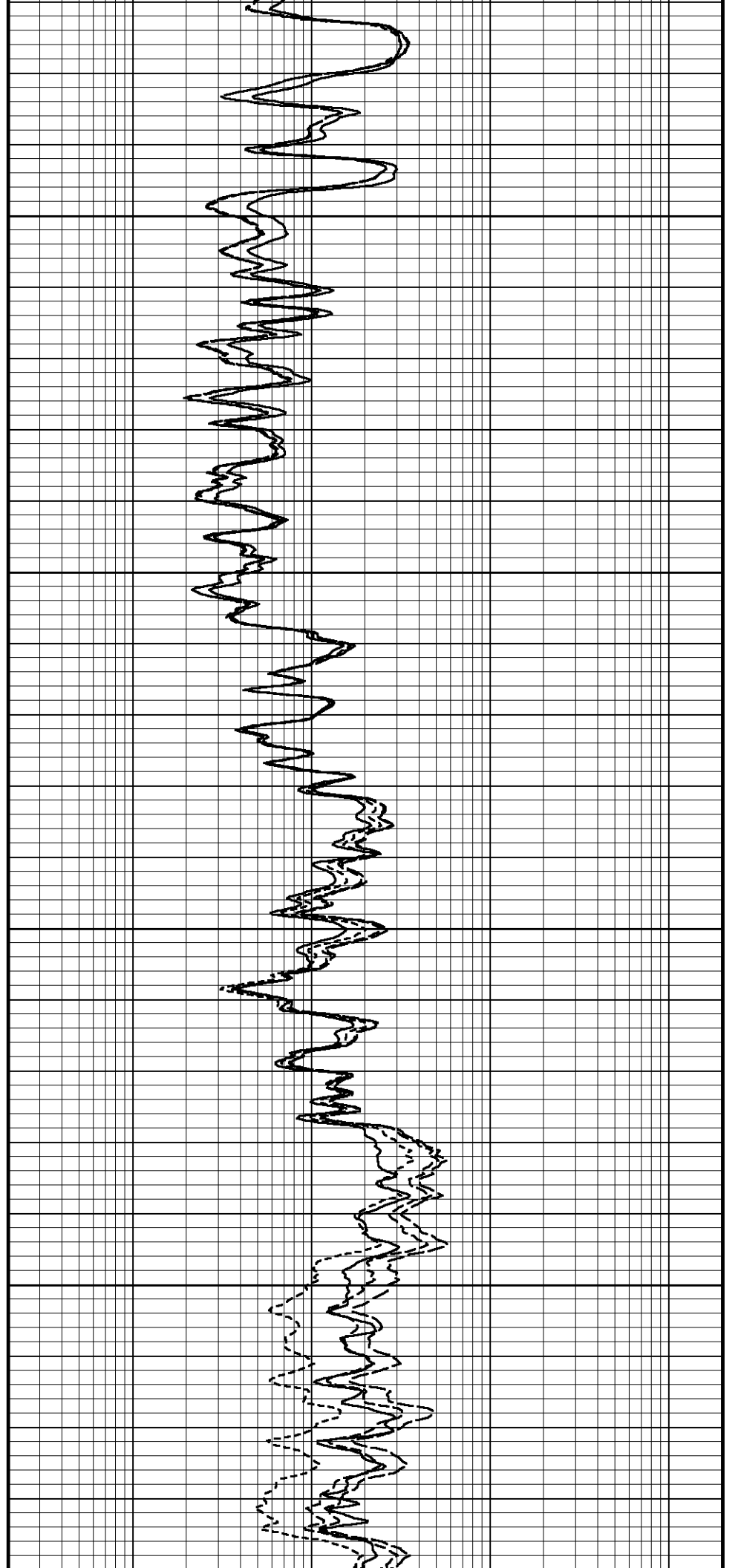
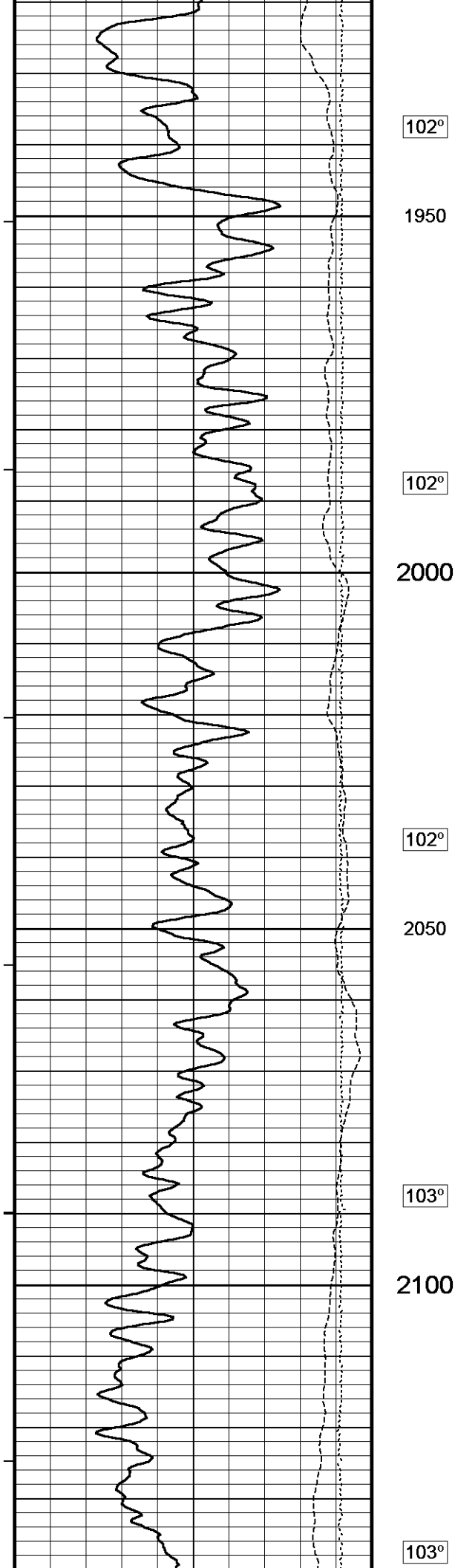


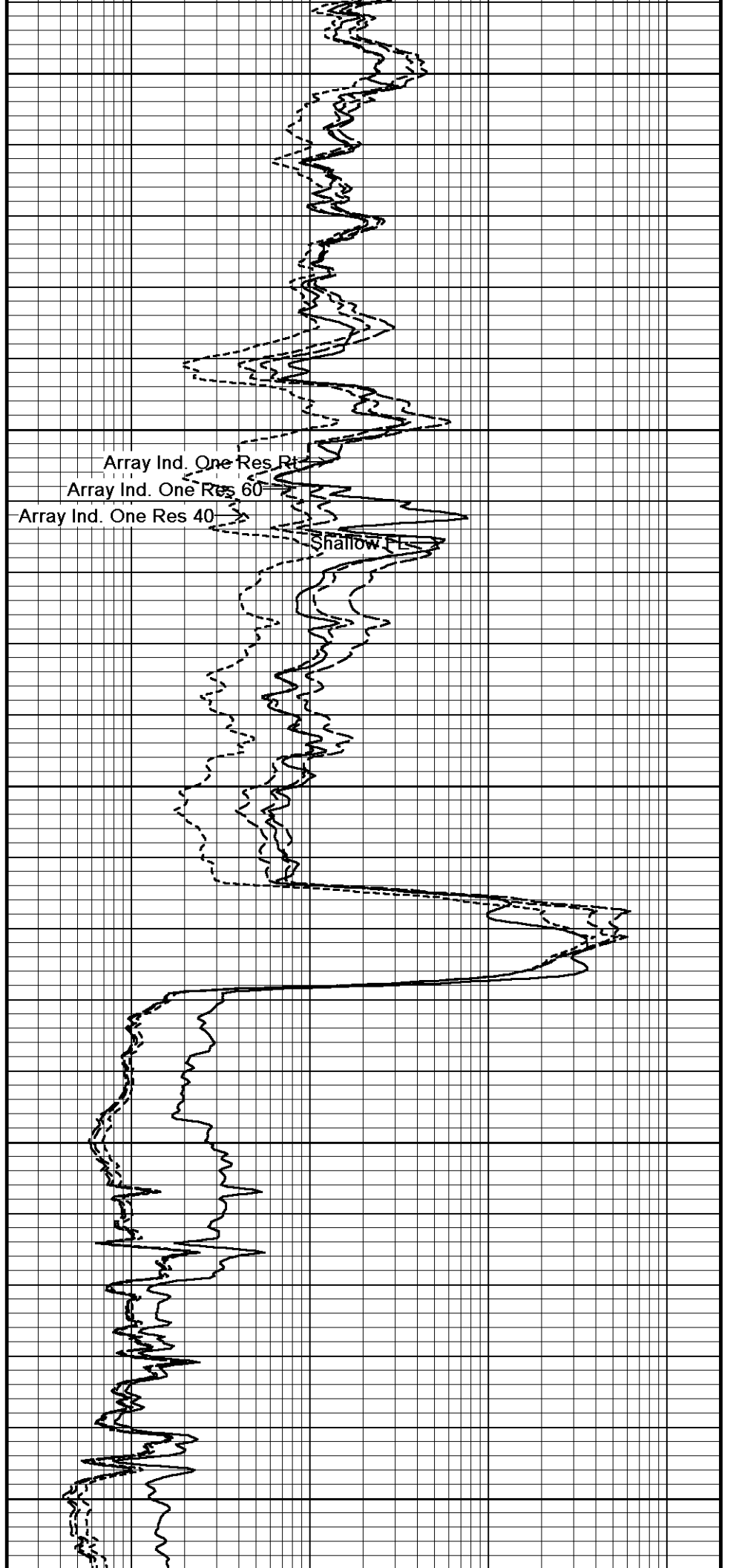
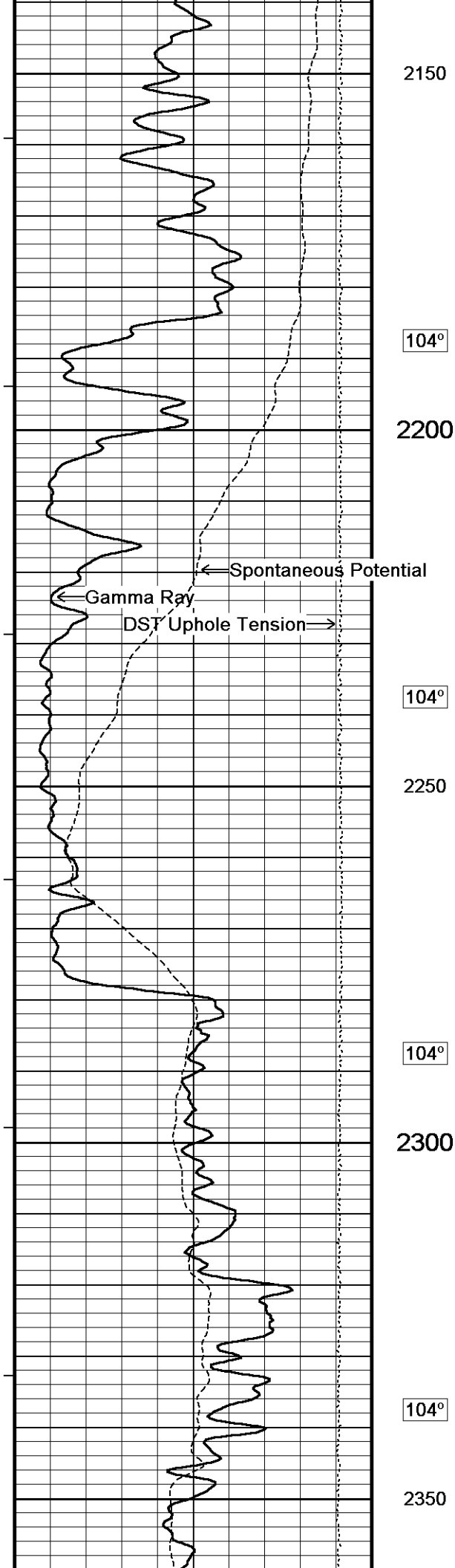
1700
100°
1750
100°
1800
100°
1850
101°
1900

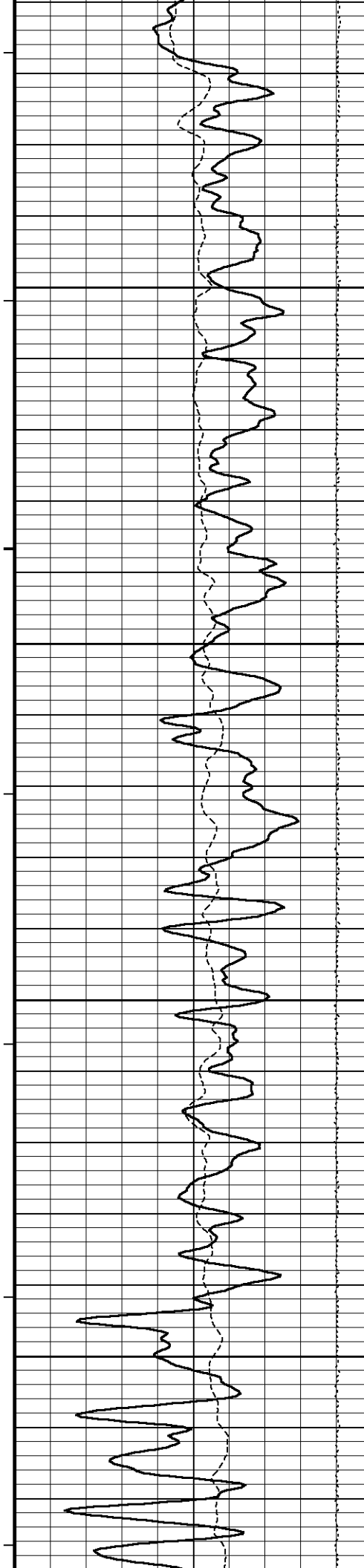
← Spontaneous Potential
← Gamma Ray
DS Uphole Tension →



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







104°

2400

105°

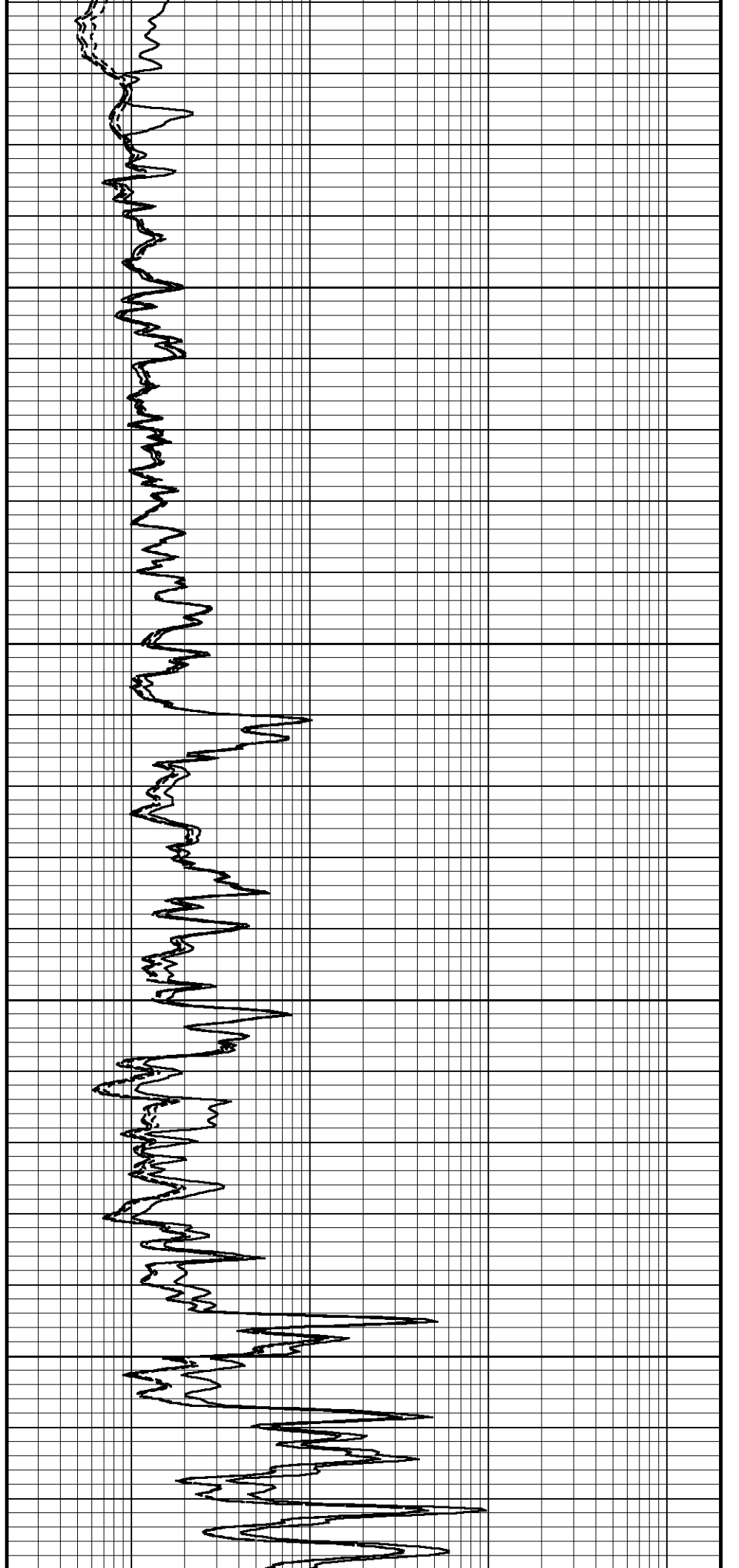
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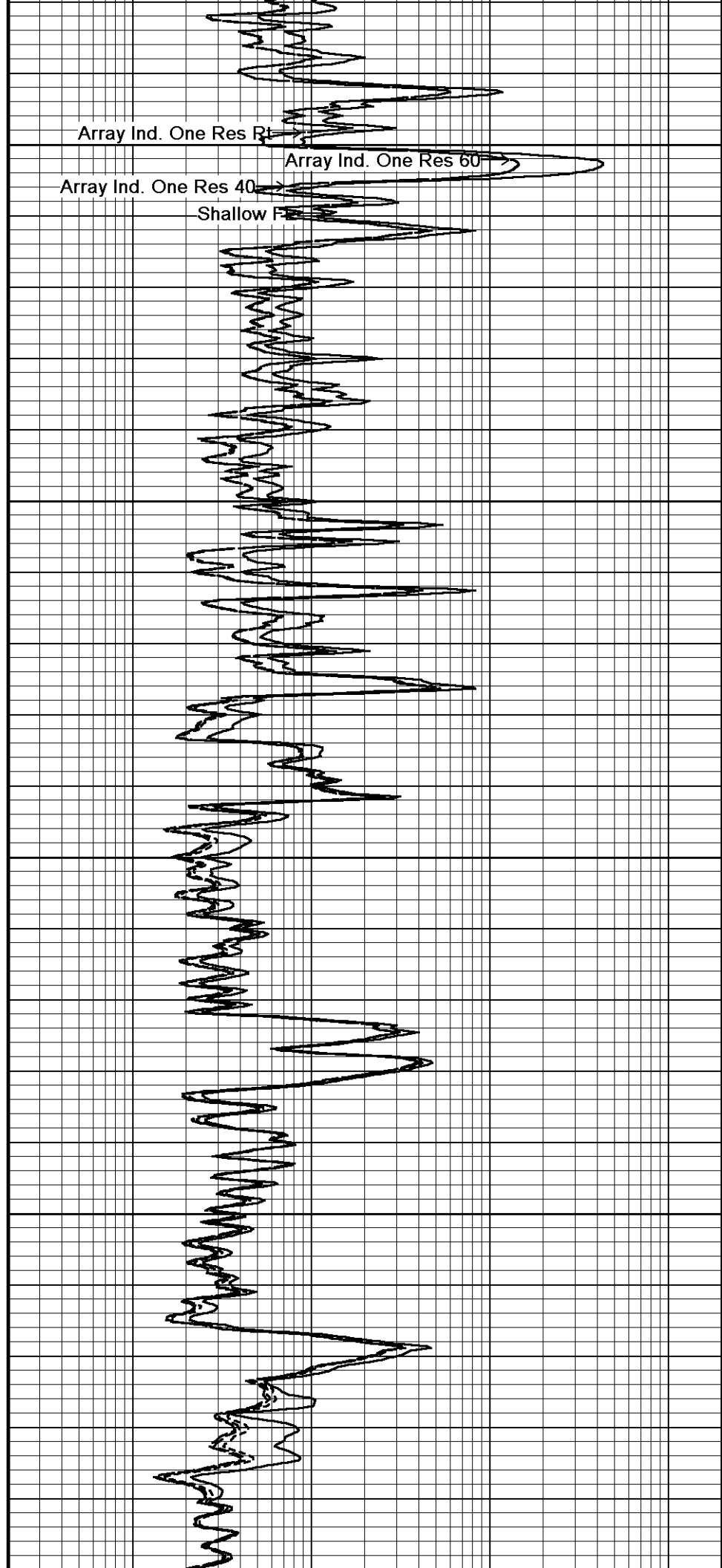
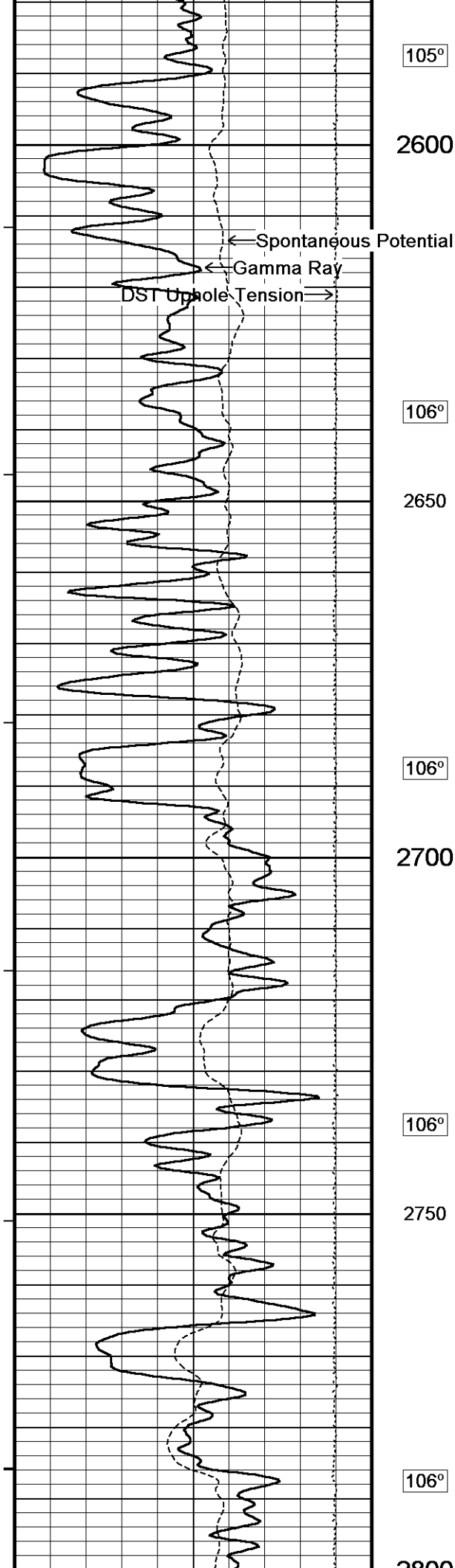
105°

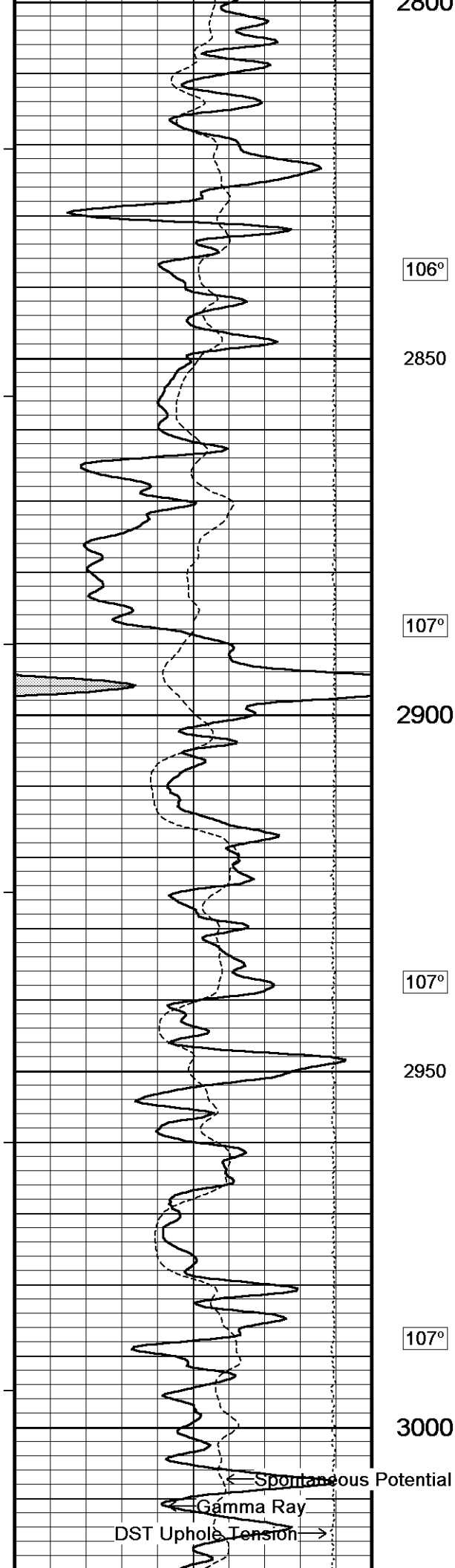
2500

105°

2550







2800

106°

2850

107°

2900

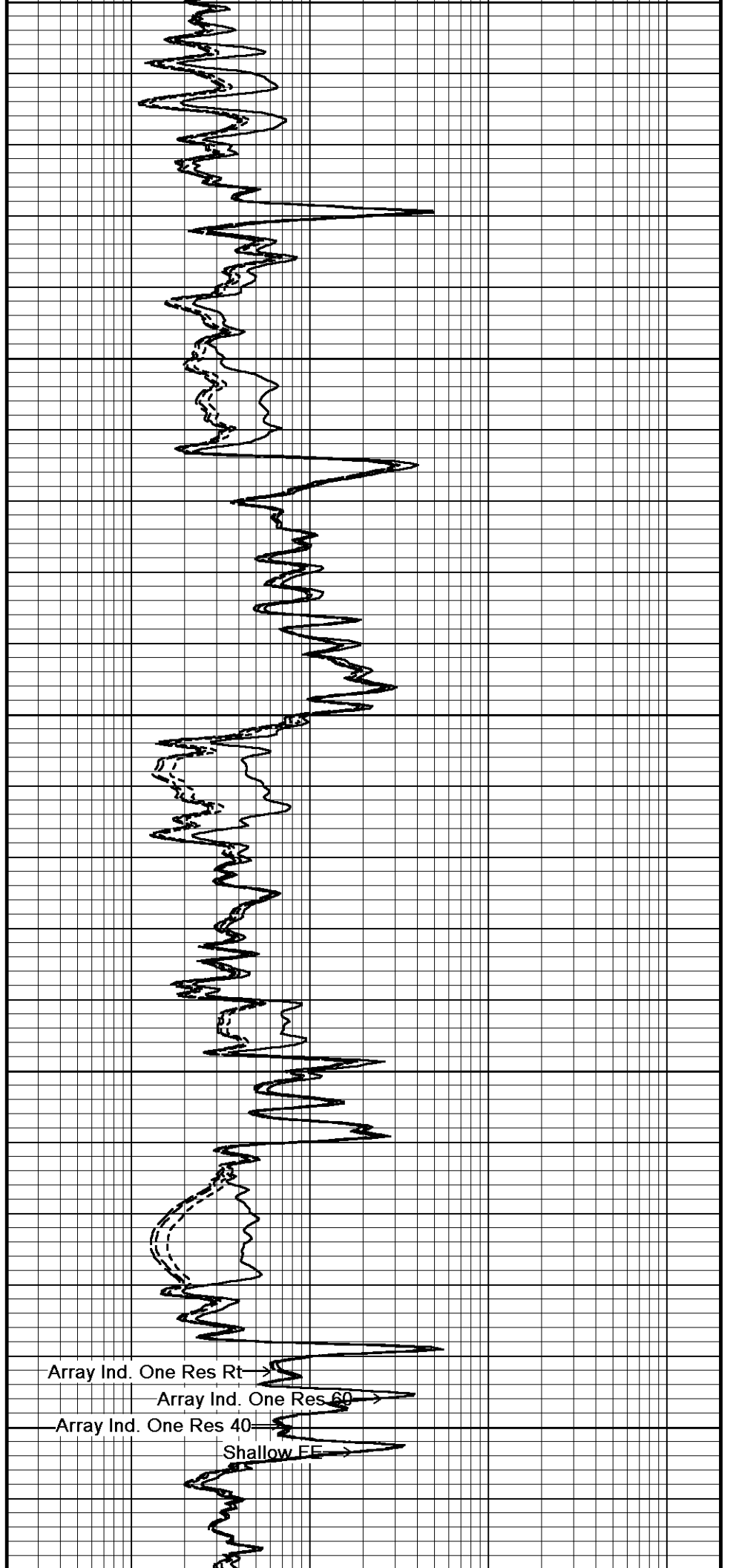
107°

2950

107°

3000

← Spontaneous Potential
Gamma Ray
DST Uphole Tension →

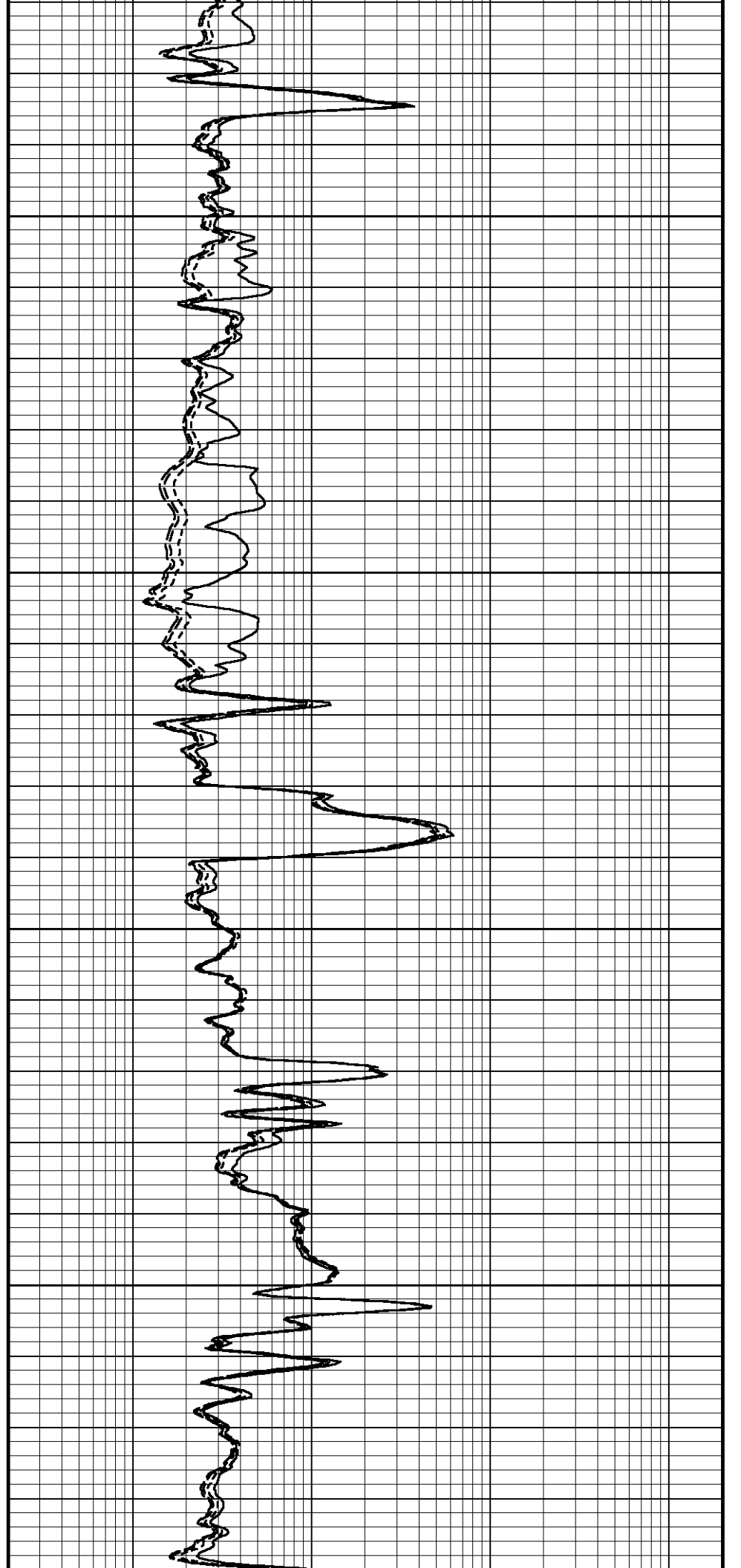
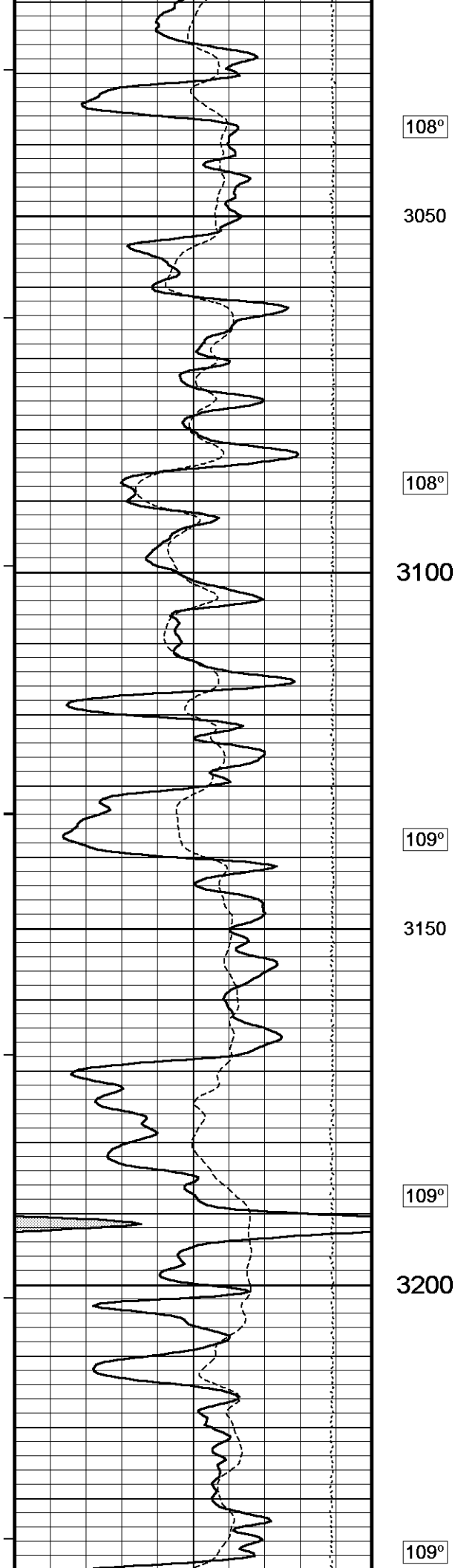


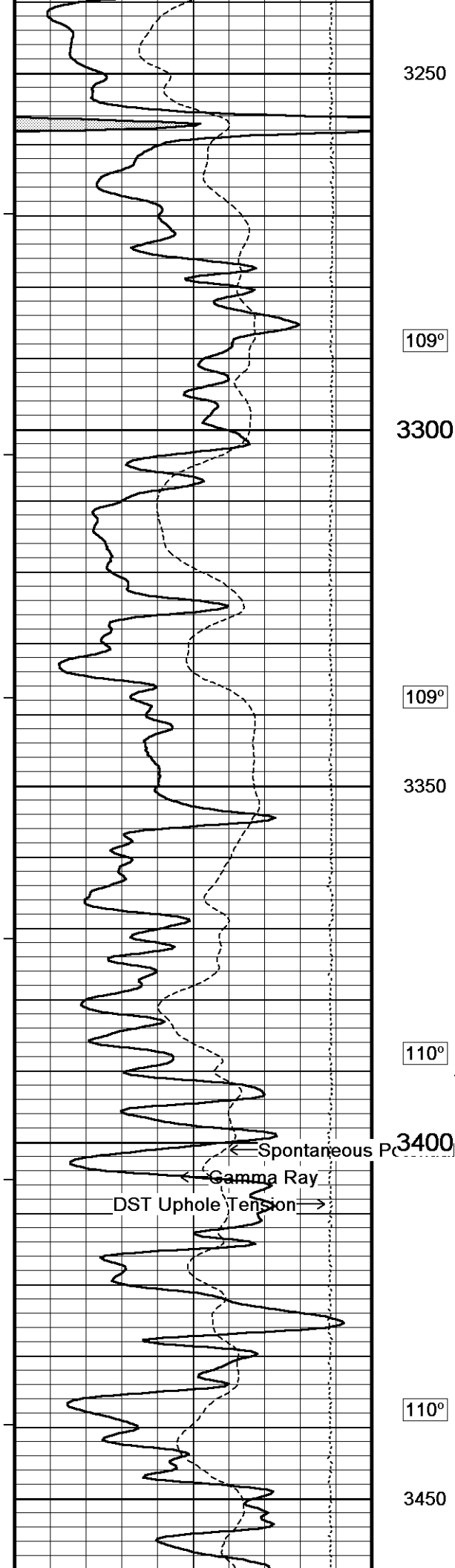
Array Ind. One Res Rt →

Array Ind. One Res 60 →

← Array Ind. One Res 40

Shallow EE →





3250

109°

3300

109°

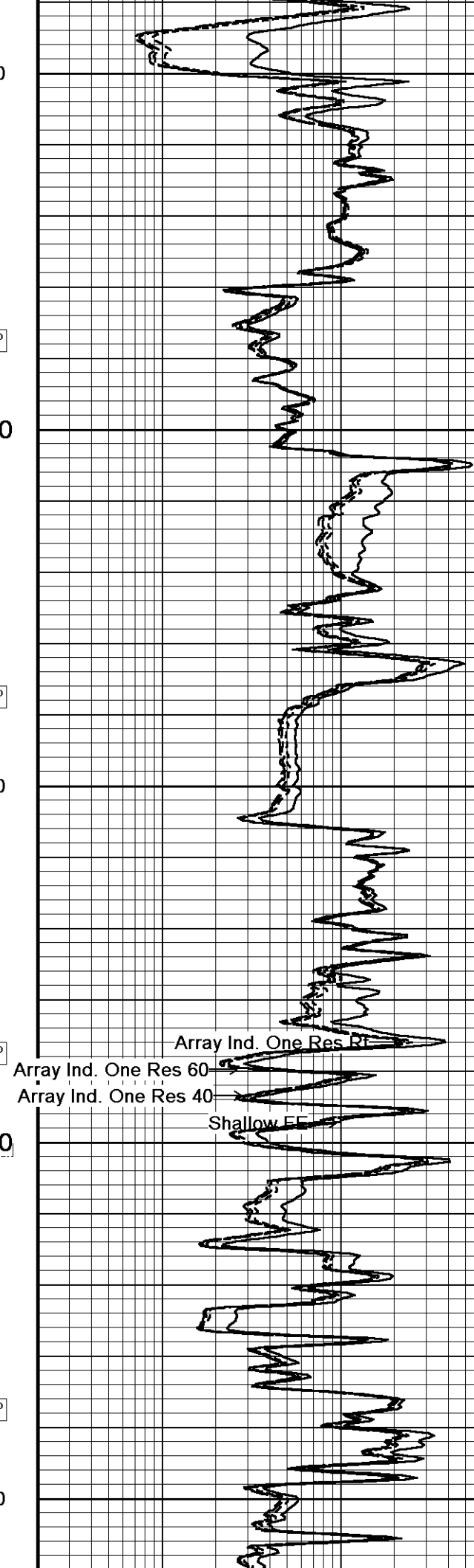
3350

110°

3400

110°

3450

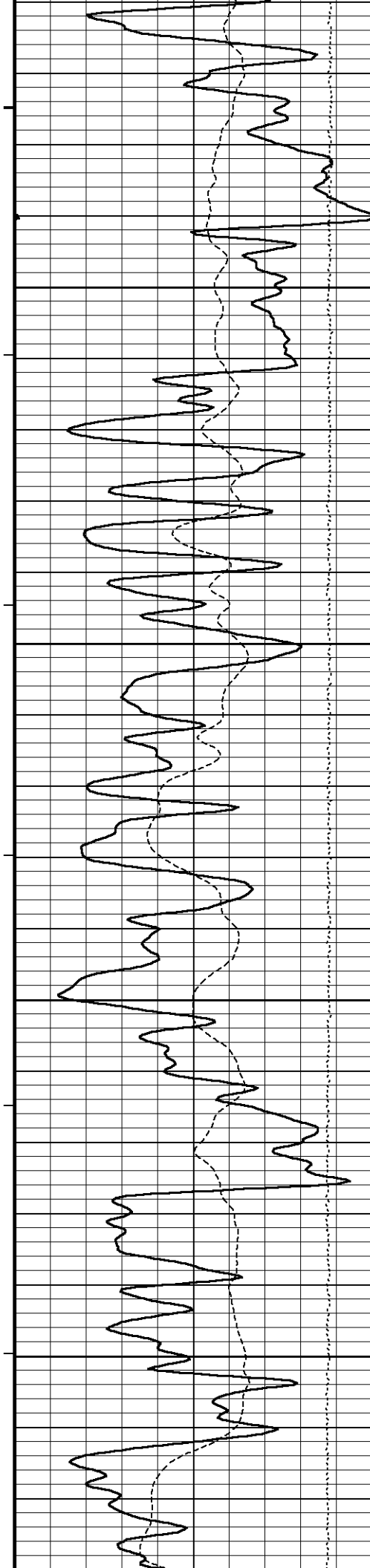


Array Ind. One Res RT

Array Ind. One Res 60

Array Ind. One Res 40

Shallow EE



110°

3500

111°

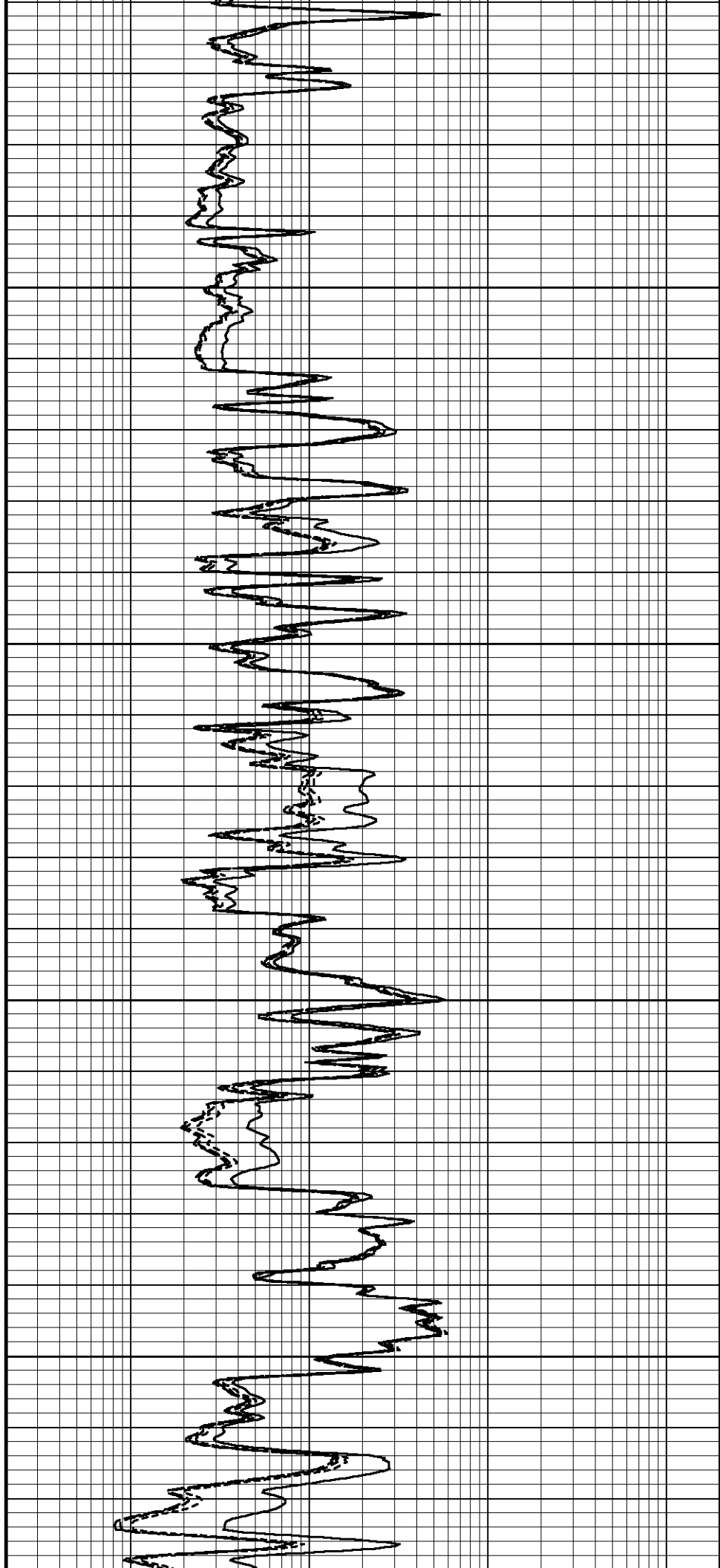
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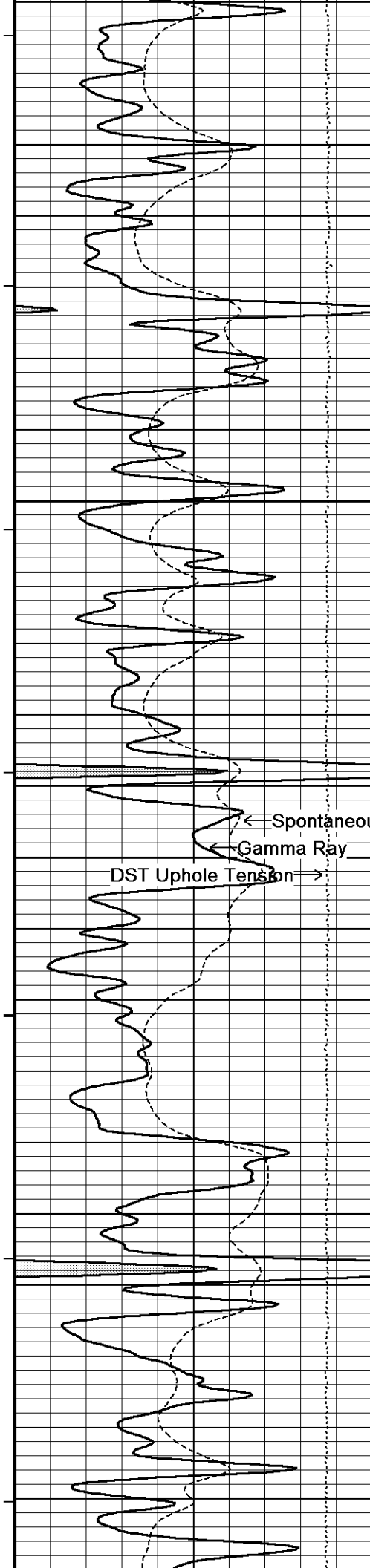
111°

3600

111°

3650





111°

3700

112°

3750

Array Ind. One Res Rt

Array Ind. One Res 60

112°

Array Ind. One Res 40

Shallow FF

← Spontaneous Potential

← Gamma Ray

DST Uphole Tension →

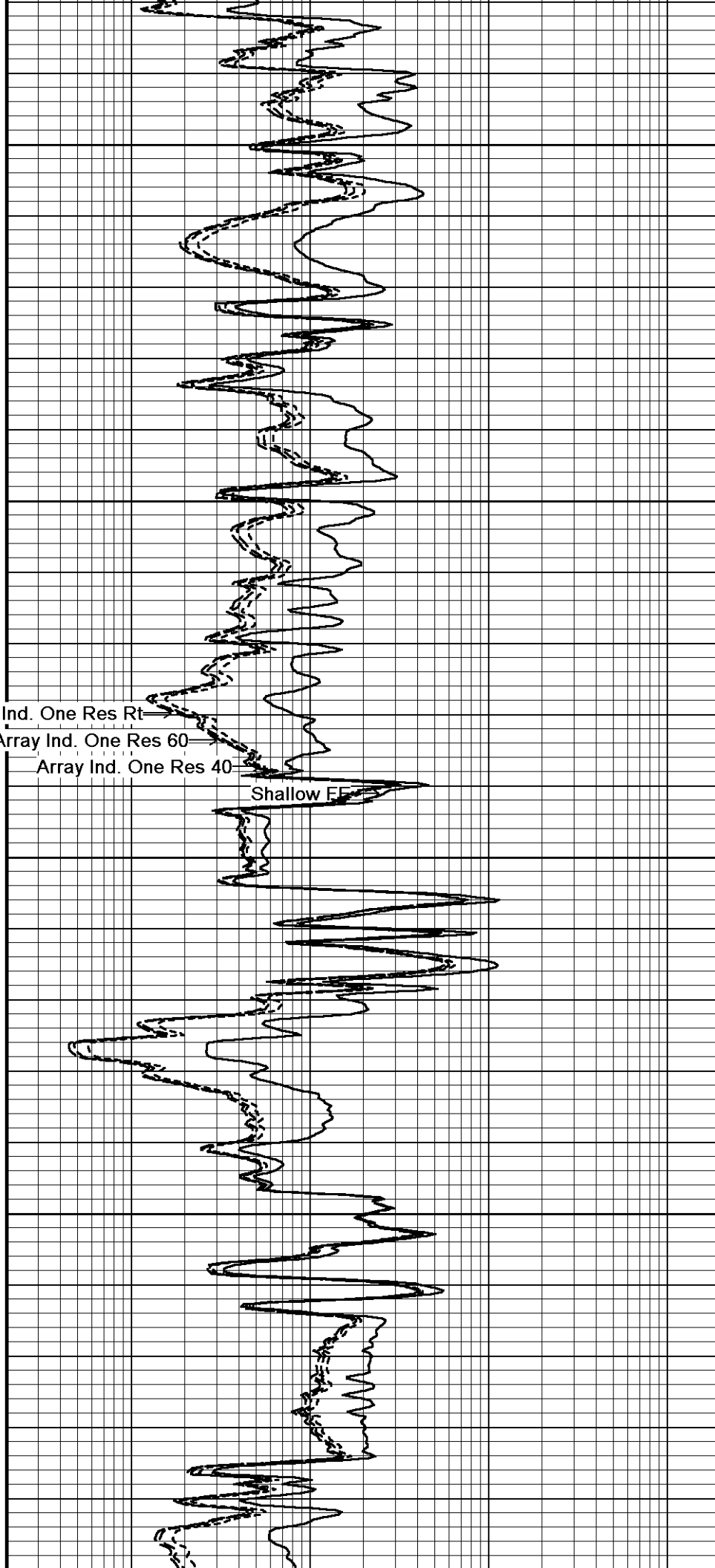
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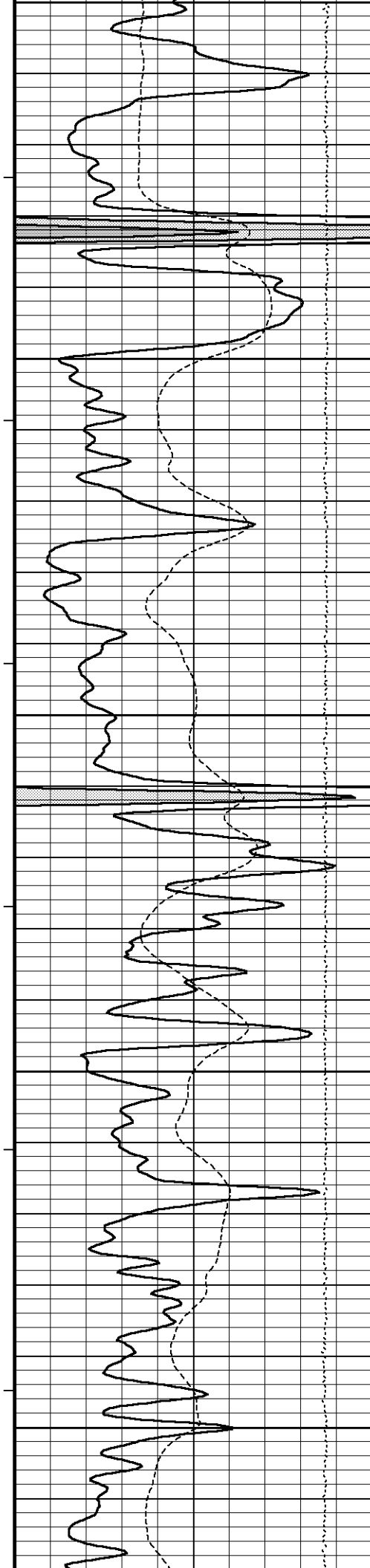
112°

3850

112°

3900





3900

113°

3950

113°

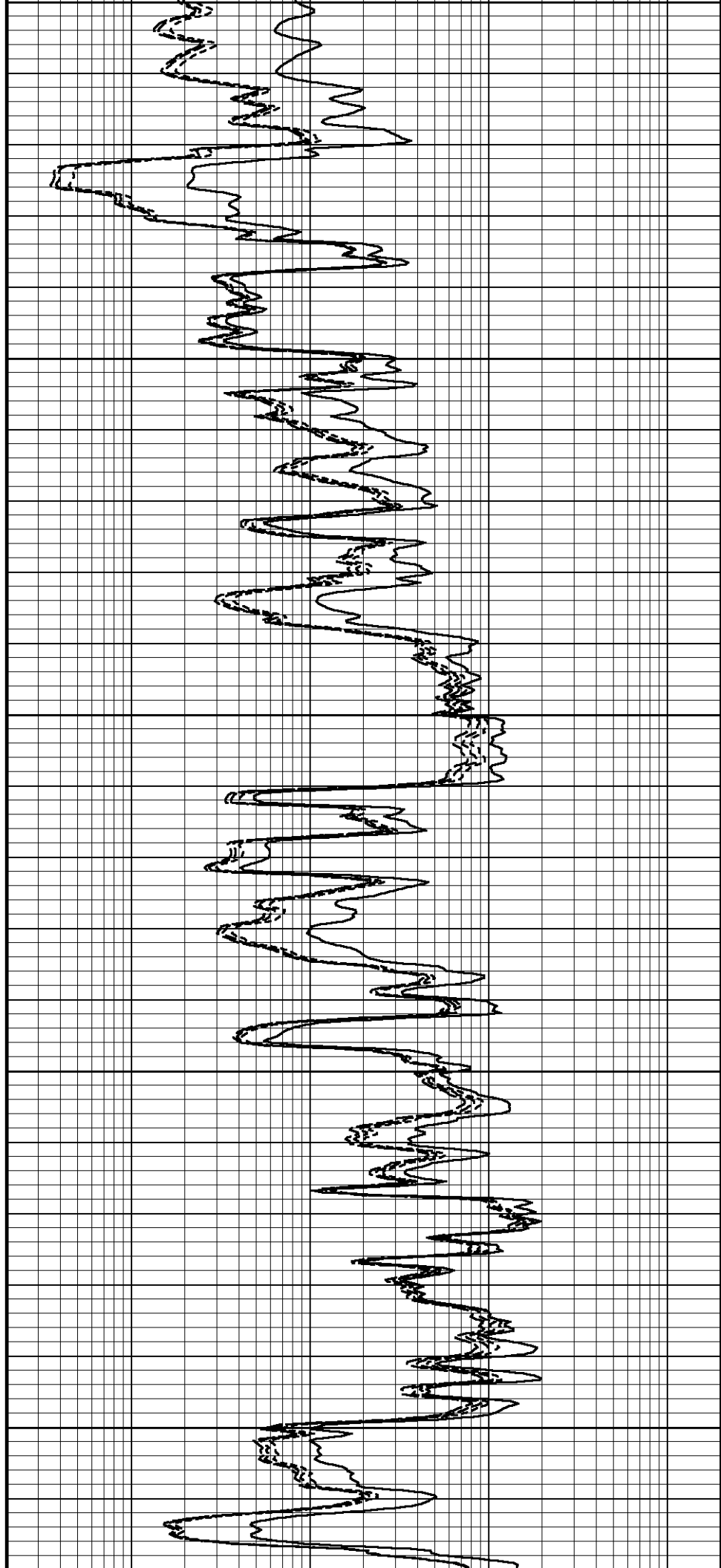
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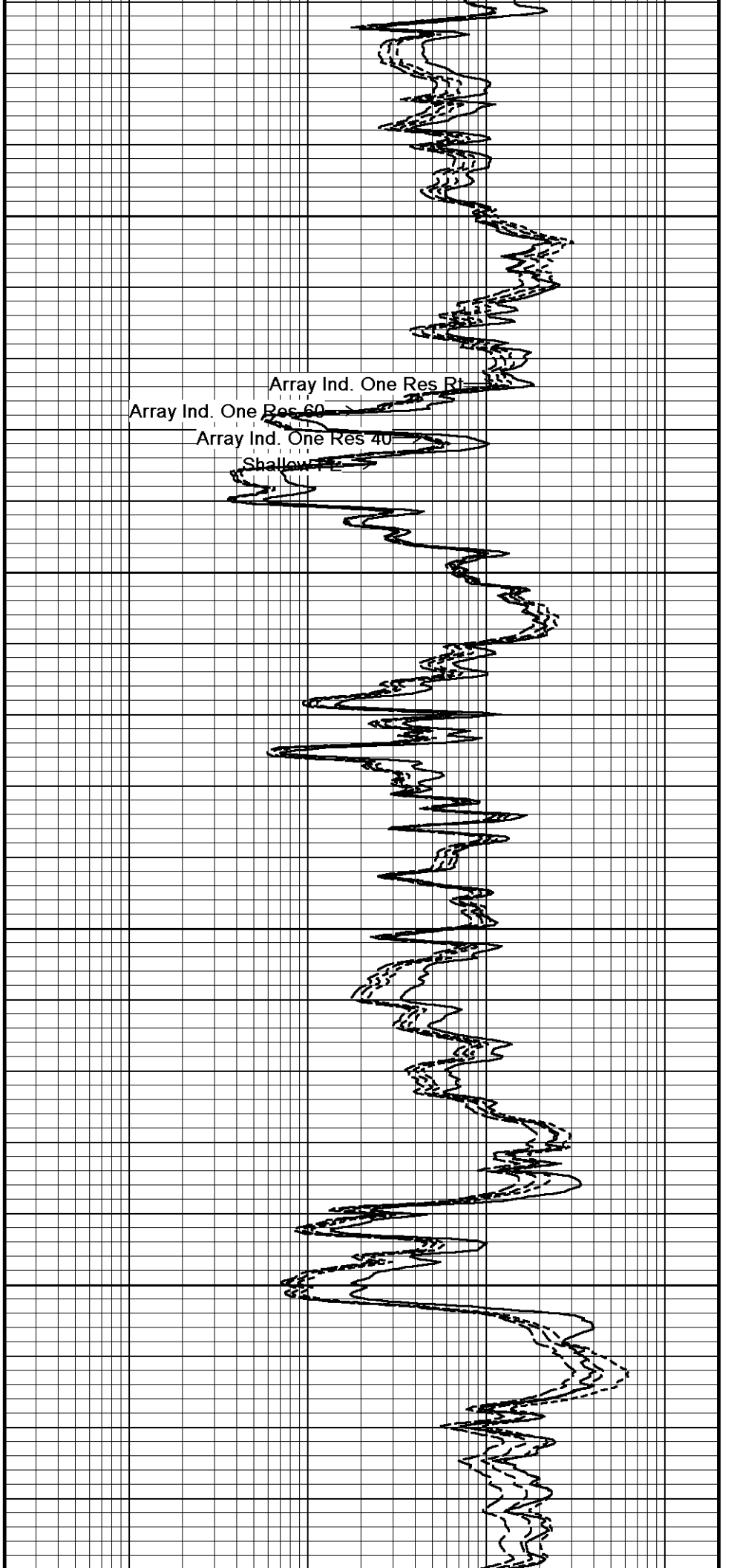
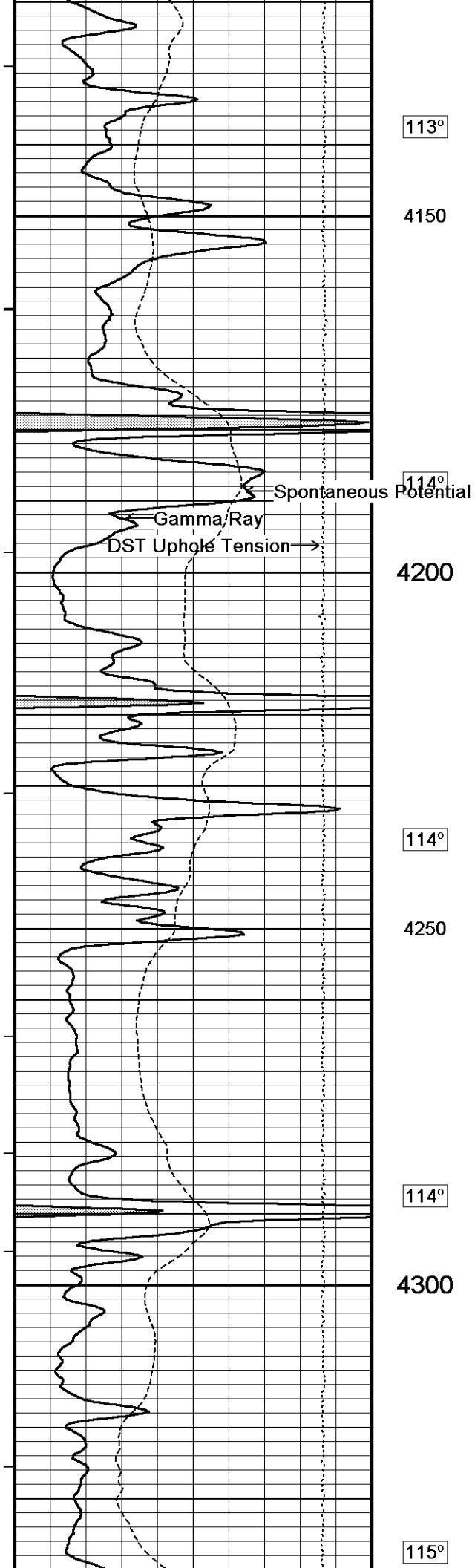
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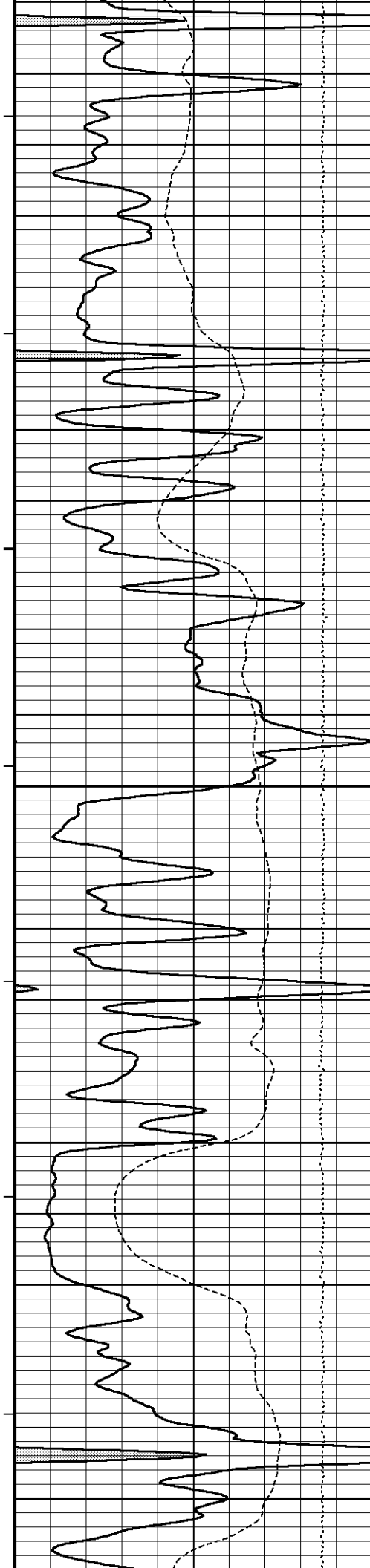
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113°

4100







4350

115°

4400

115°

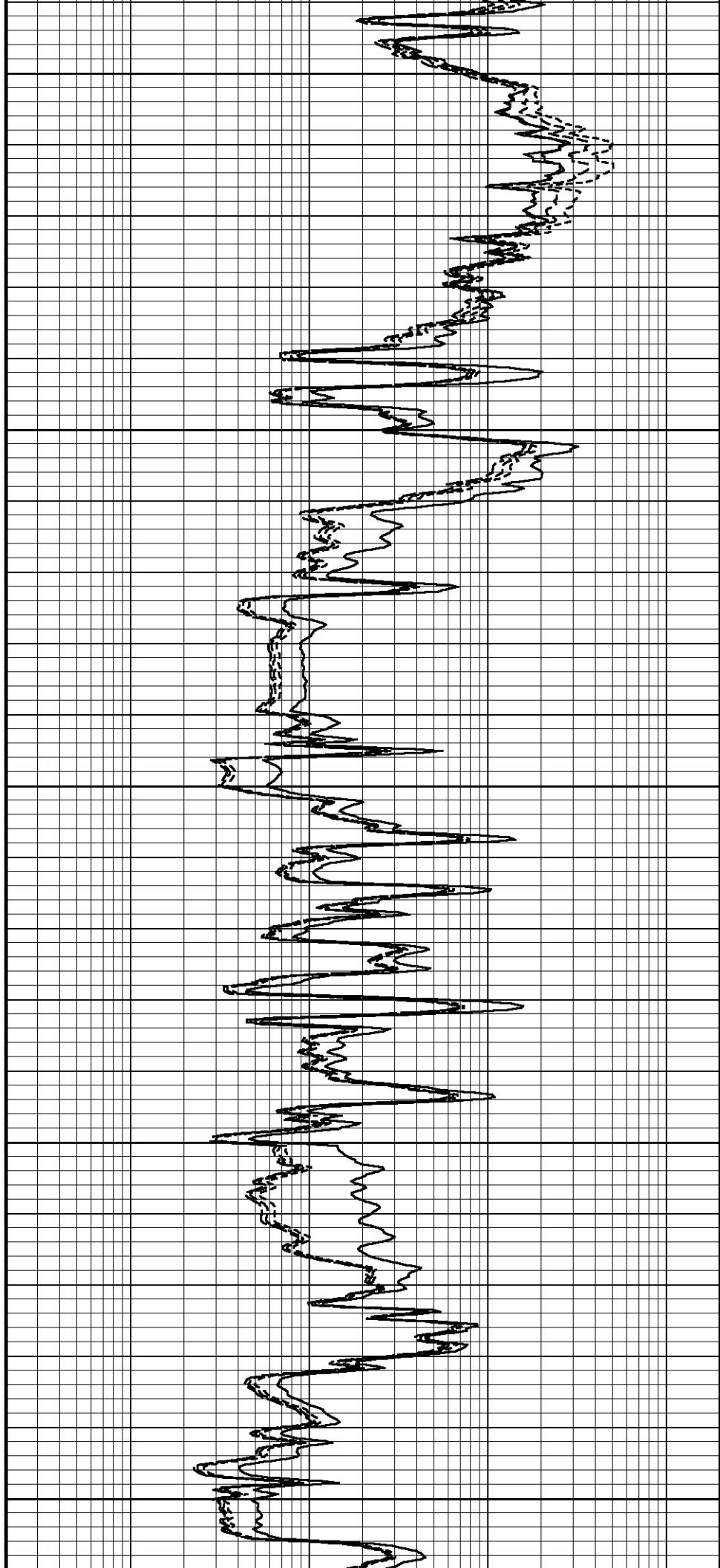
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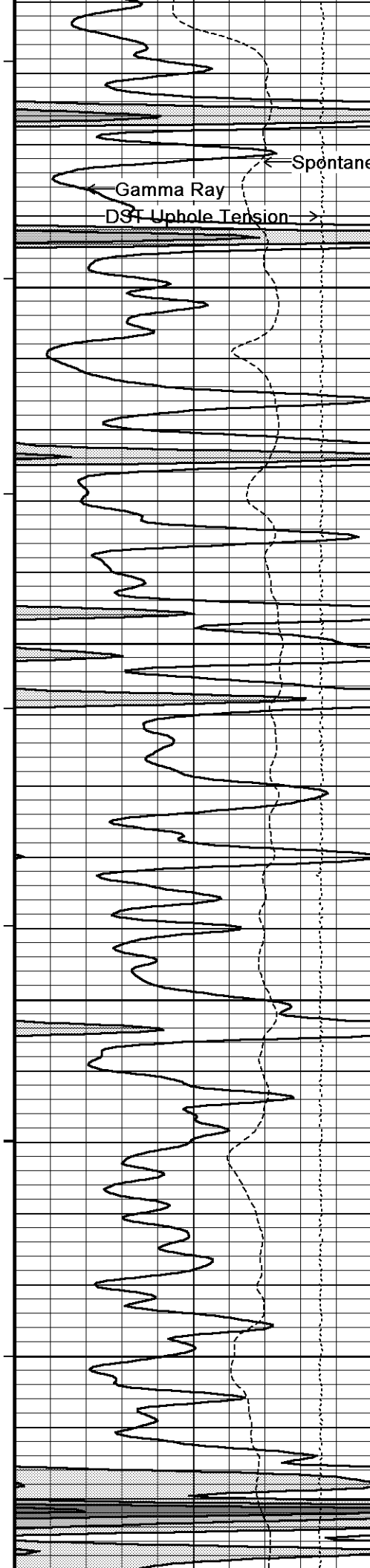
116°

4500

116°

4550





116°

4600

117°

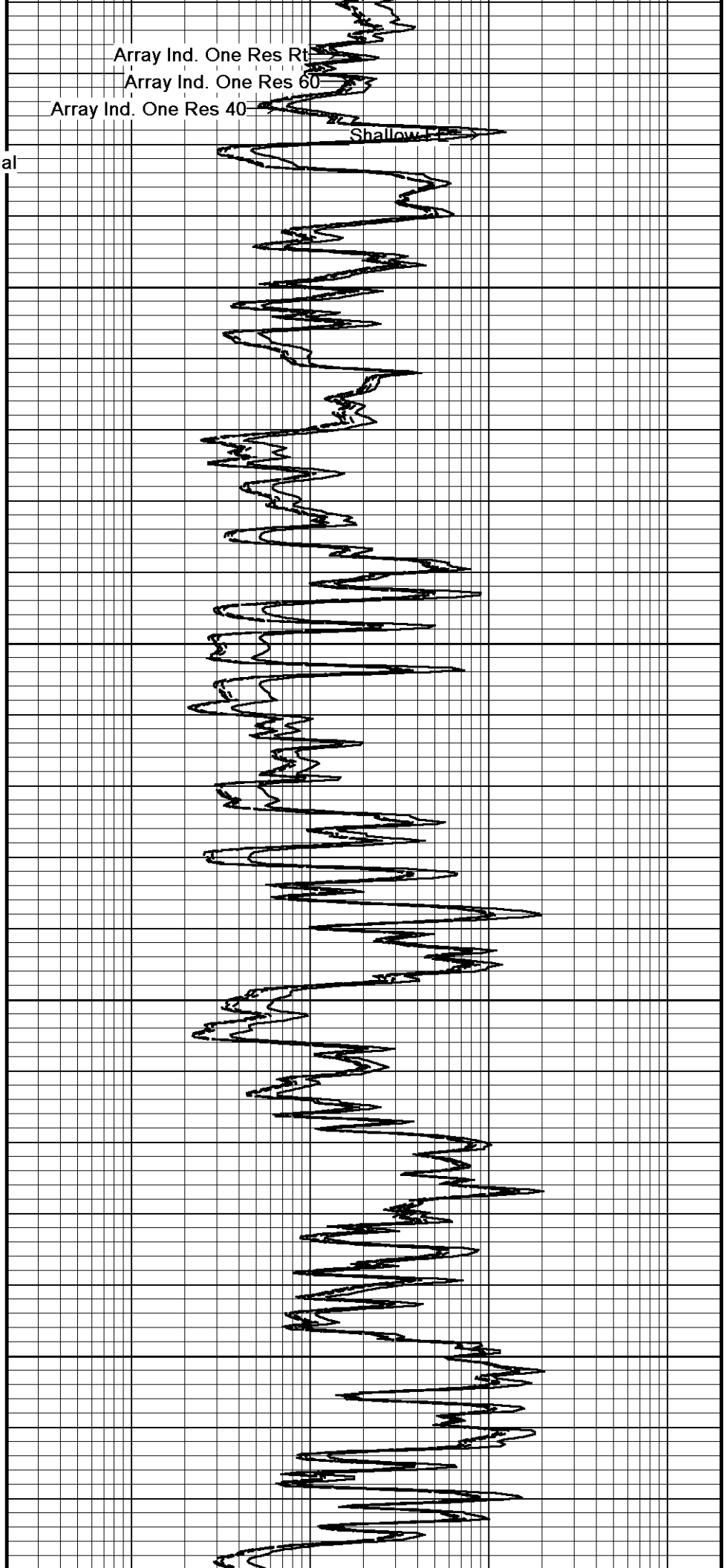
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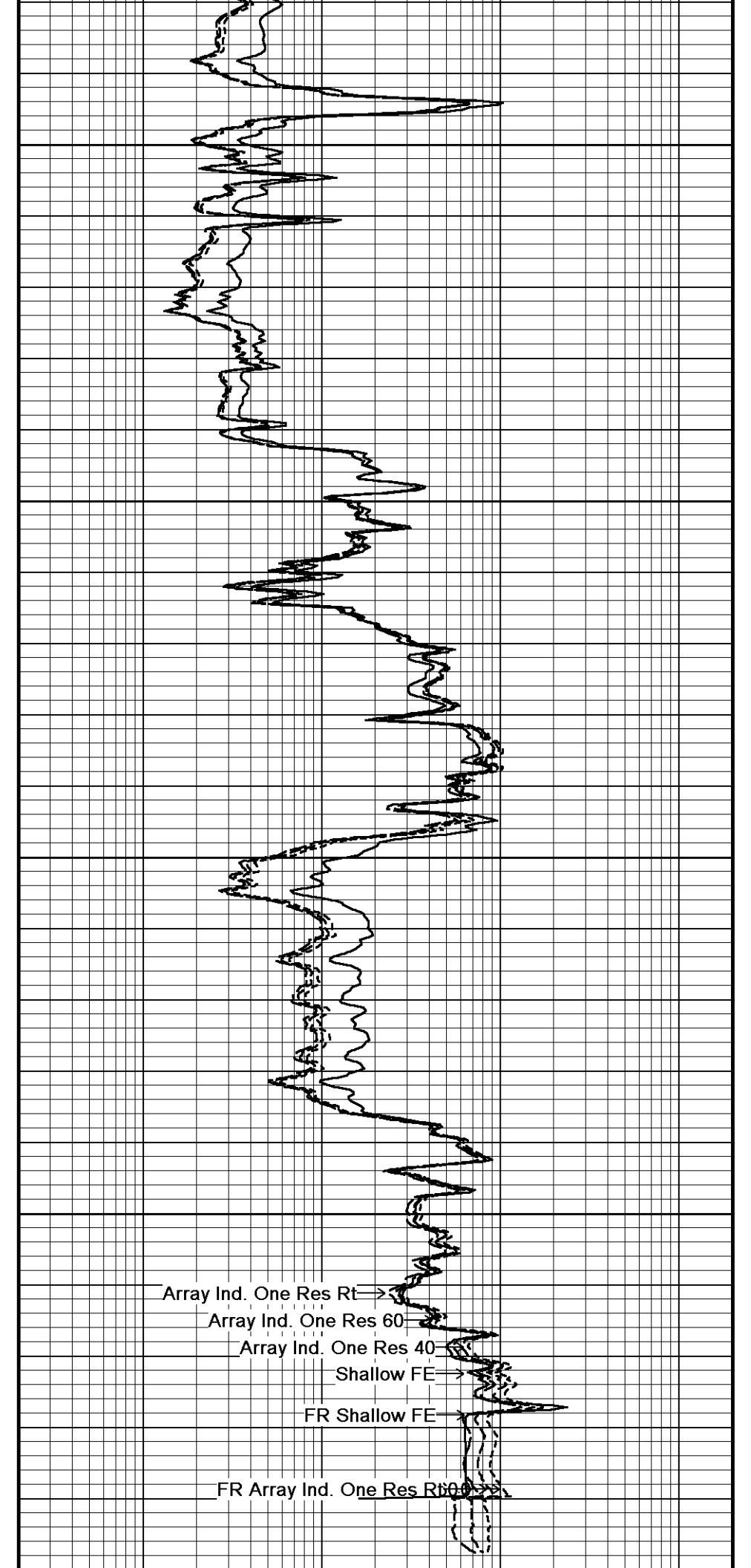
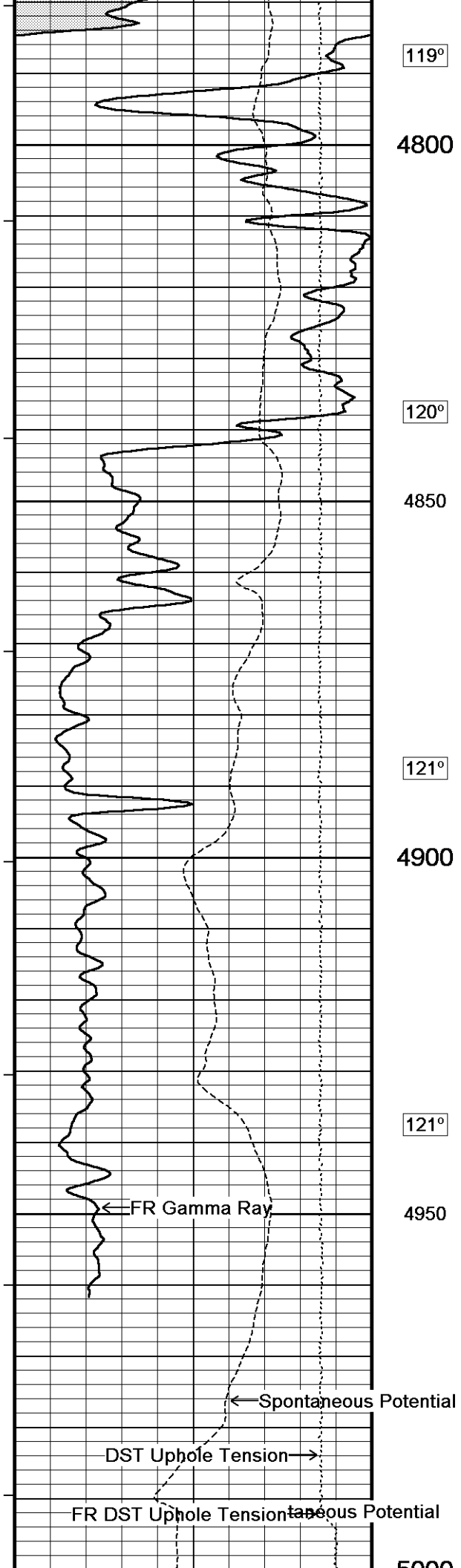
118°

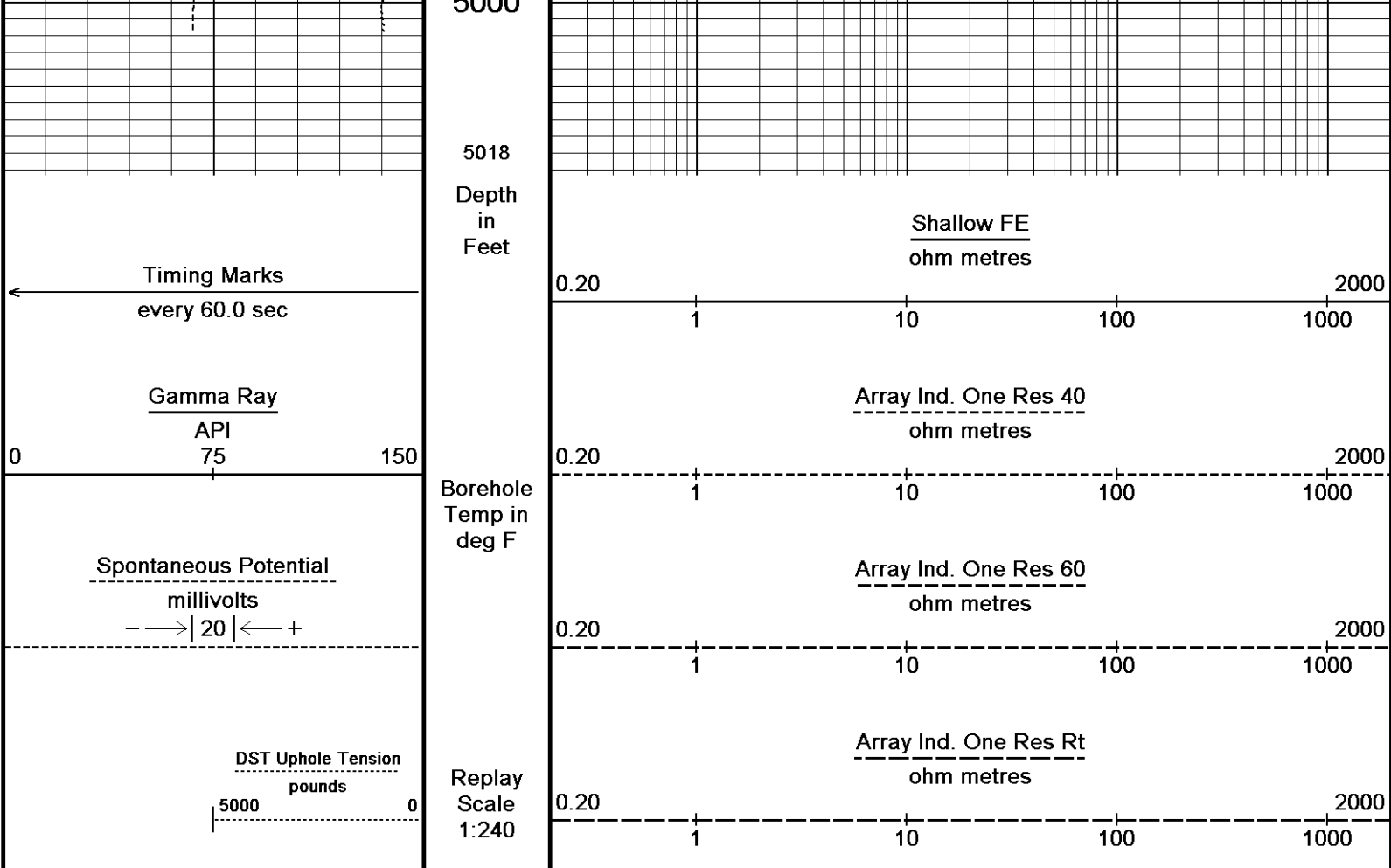
4700

118°

4750





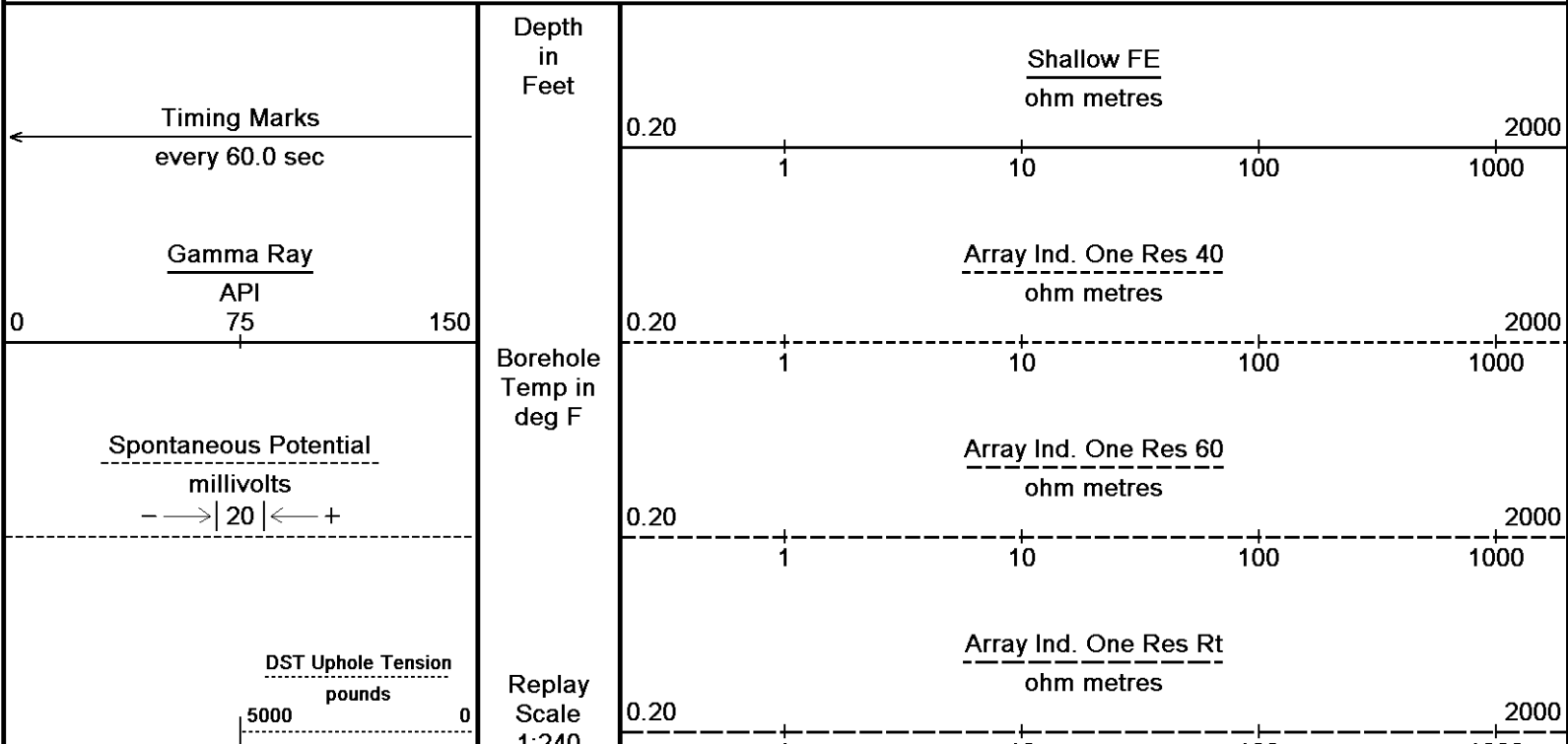


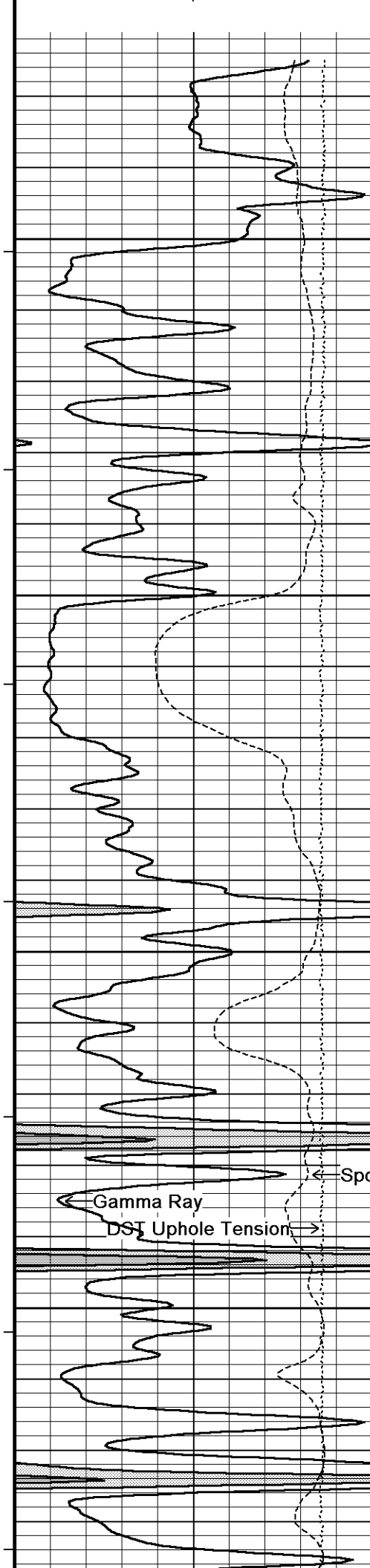
Depth Based Data - Maximum Sampling Increment 10.0cm	Plotted on 23-MAY-2012 02:46
Filename: C:\Minimus 11_03_4044\Data\Comanche Re...\Comanche Resources James # 31-1_004.dta	Recorded on 22-MAY-2012 23:07
System Versions: Logged with 11.03.4044 Processed with 11.03.4044 Plotted with 13.01.5821	

↑	5 INCH MAIN	↑
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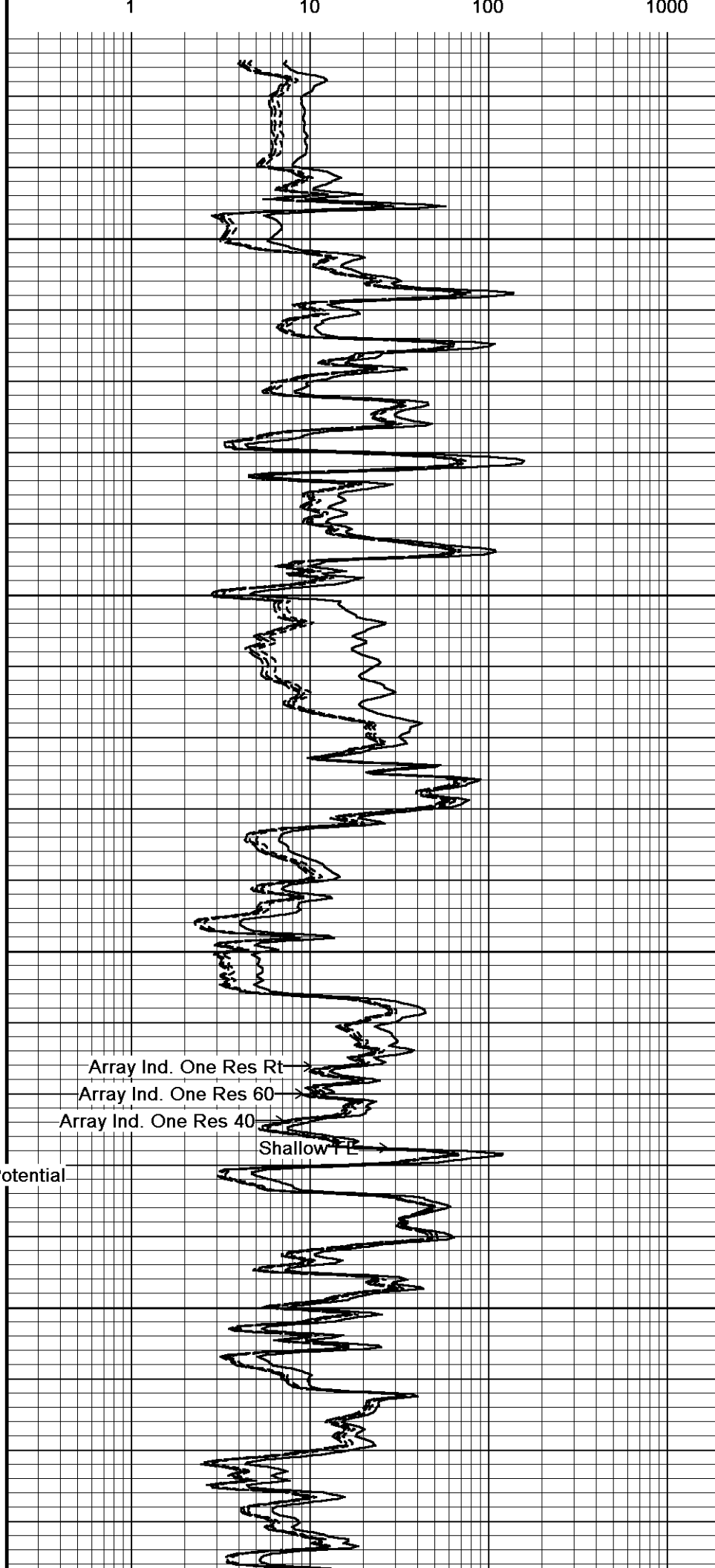
↓	REPEAT SECTION	↓
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Depth Based Data - Maximum Sampling Increment 10.0cm	Plotted on 23-MAY-2012 02:46
Filename: C:\Minimus 11_03_4044\Data\Comanche Re...\Comanche Resources James # 31-1_003.dta	Recorded on 22-MAY-2012 22:29
System Versions: Logged with 11.03.4044 Processed with 11.03.4044 Plotted with 13.01.5821	

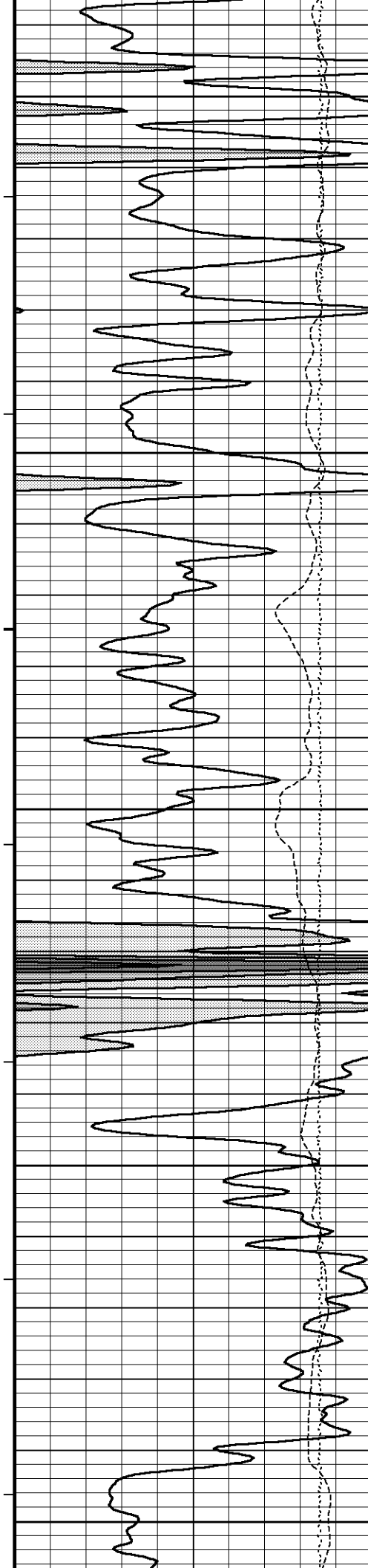




1.240
4424
4450
115°
4500
115°
4550
116°
4600



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



117°

4650

117°

4700

117°

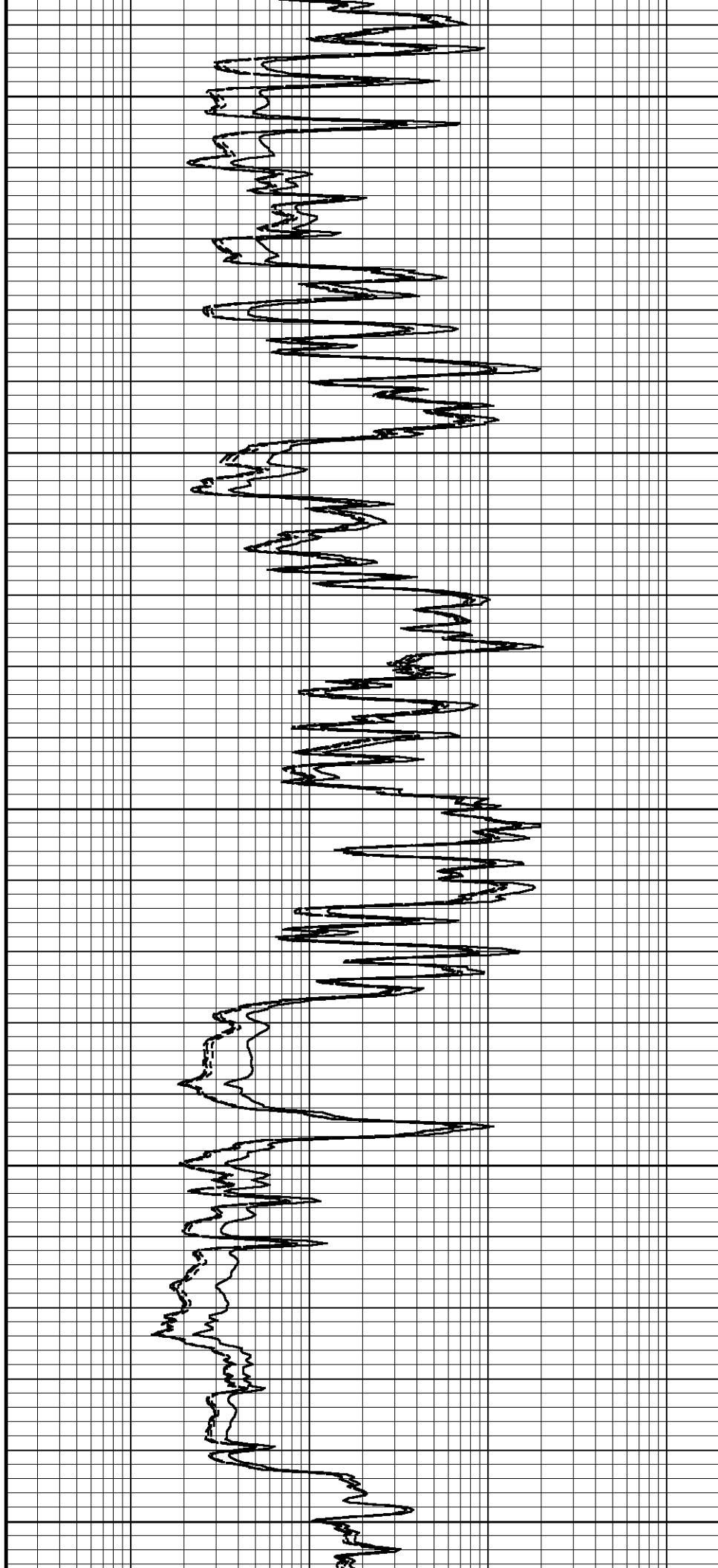
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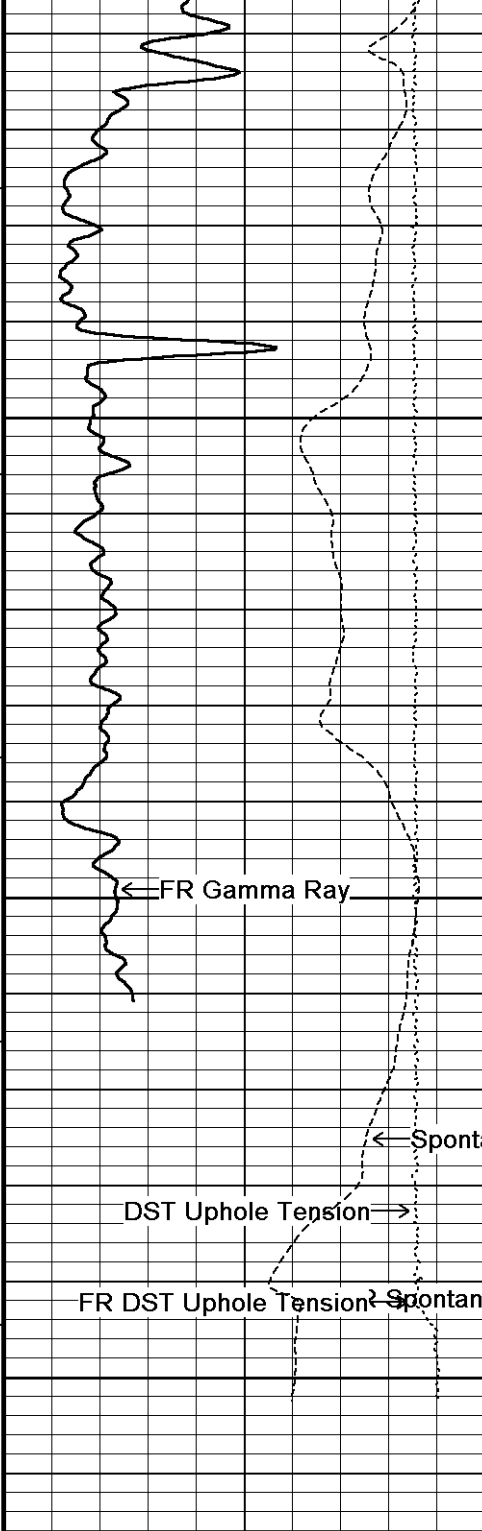
118°

4800

119°

4850





120°

4900

119°

4950

← Spontaneous Potential

DST Uphole Tension →

FR DST Uphole Tension ← Spontaneous Potential

5000

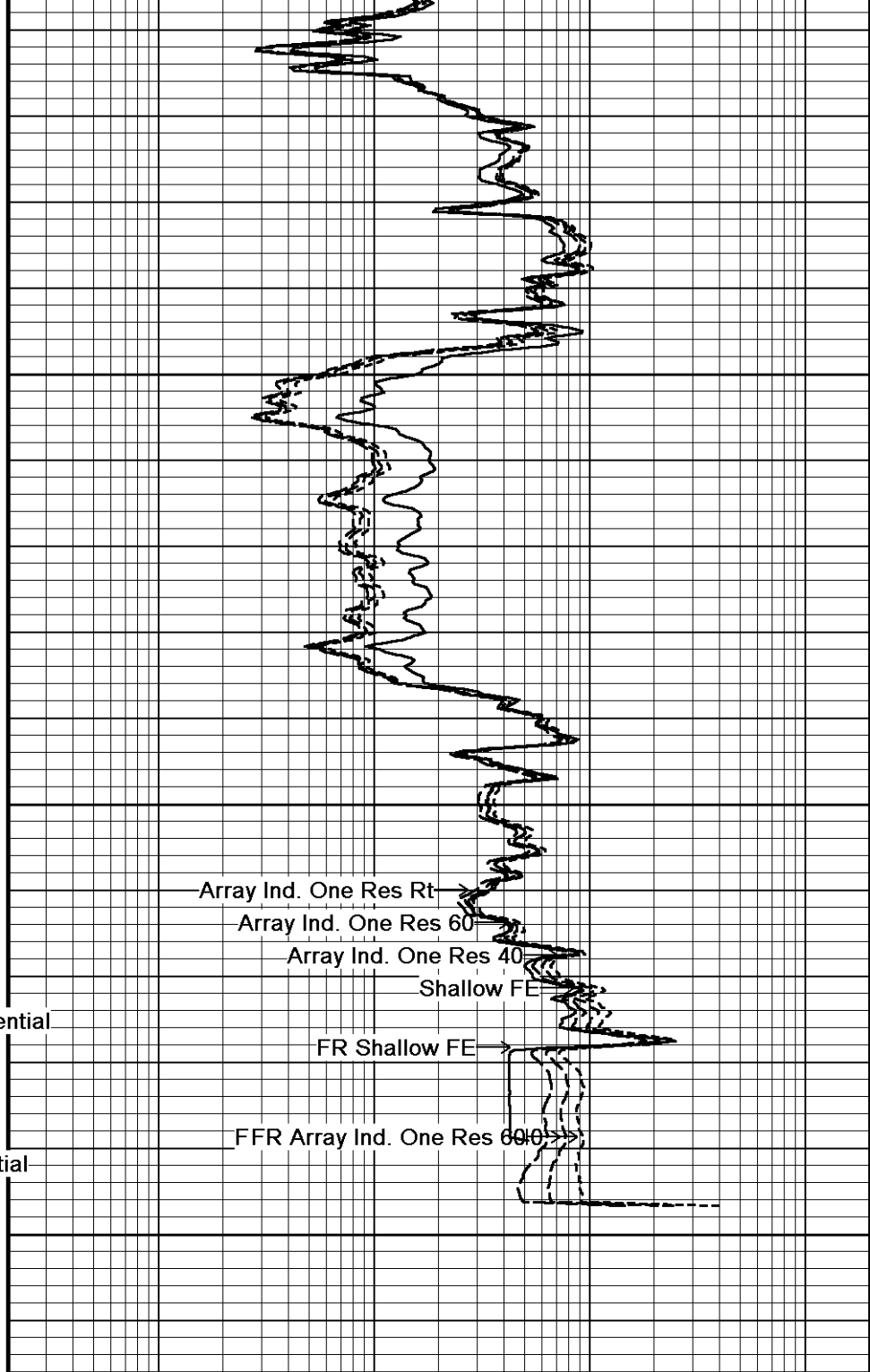
5014
Depth
in
Feet

Timing Marks
every 60.0 sec

Gamma Ray
API
0 75 150

Spontaneous Potential
millivolts
- → | 20 | ← +

Borehole
Temp in
deg F



Array Ind. One Res Rt →

Array Ind. One Res 60 →

Array Ind. One Res 40 →

Shallow FE →

FR Shallow FE →

FFR Array Ind. One Res 60 →

Shallow FE
ohm metres

0.20

1

10

100

2000

0.20

1

10

100

2000

0.20

1

10

100

2000

DST Uphole Tension
pounds
5000 0

Replay
Scale
1:240

Array Ind. One Res Rt
ohm metres

0.20 1 10 100 1000 2000

Depth Based Data - Maximum Sampling Increment 10.0cm

Plotted on 23-MAY-2012 02:46

Filename: C:\Minimus 11_03_4044\Data\Comanche Re...\Comanche Resources James # 31-1_003.dta

Recorded on 22-MAY-2012 22:29

System Versions: Logged with 11.03.4044 Processed with 11.03.4044 Plotted with 13.01.5821



REPEAT SECTION



BEFORE SURVEY CALIBRATION

C:\Minimus 11_03_4044\Data\Comanche Resources James # 31-1\Comanche Resources James # 31-1_004.dta

General Constants All 000

Last Edited on 22-MAY-2012,21:31

General Parameters

Mud Resistivity	0.800	ohm-metres
Mud Resistivity Temperature	71.000	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	5.500	inches
Caliper for Differential Caliper	Density Caliper	

Rwa Parameters

Porosity used	Limestone Density Por.
Resistivity used	Array Ind. One Res Rt
RWA Constant A	0.610
RWA Constant M	2.150

Down-hole Tension Calibration SMS 0

Field Calibration on 09-MAY-2012 17:14

Reading No	Measured	0
1	12472.43	0.00
2	13803.95	582.00

Gamma Calibration MCG-B 39

Field Calibration on 22-MAY-2012 09:29

	Measured	Calibrated (API)
Background	64	43
Calibrator (Gross)	1139	768
Calibrator (Net)	1076	725

Gamma Constants MCG-B 39

Last Edited on 22-MAY-2012,21:31

Gamma Calibrator Number	GRC038	
Mud Density	1.10	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

SP Calibration MCG-B 39

Field Calibration on 02-APR-2012,14:02

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

High Resolution Temperature Calibration MCG-B 39

Field Calibration on 02-APR-2012,14:03

	Measured	Calibrated (Deg F)
Lower	50.00	50.00
Upper	100.00	100.00

High Resolution Temperature Constants MCG-B 39

Last Edited on

Pre-filter Length		11	
Caliper Calibration MML-A 4		Base Calibration on 15-MAY-2012 17:25 Field Calibration on 22-MAY-2012 09:21	
Base Calibration			
Reading No	Measured	Calibrator Size (in)	
1	15117	5.98	
2	18514	7.97	
3	21781	9.86	
4	25834	11.92	
5	0	0.00	
6	N/A	N/A	
Field Calibration			
	Measured Caliper (in)	Actual Caliper (in)	
	6.06	5.98	

Micro Normal and Micro Inverse Calibration MML-A 4					Base Calibration on 15-MAY-2012 17:31 Field Check on 22-MAY-2012 09:23	
Base Calibration						
		Measured		Calibrated (ohm-m)		
Channel	Resistor 1	Resistor 2	Resistor 1	Resistor 2		
Micro Normal	12.2	60.3	5.0	25.0		
Micro Inverse	15.7	78.5	5.0	25.0		
Channel		Base Check (ohm-m)		Field Check (ohm-m)		
Micro Normal		62.8		62.8		
Micro Inverse		48.2		48.2		

Micro Normal and Micro Inverse Constants MML-A 4			Last Edited on 18-MAY-2012,03:55
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-B.J 387				Base Calibration on 15-MAY-2012 16:34	
				Field Check on 22-MAY-2012 09:39	
Base Calibration					
		Measured		Calibrated (cps)	
	Near	Far		Near	Far
	2995	90		3714	110
Ratio	33.447			33.764	
Field Calibrator at Base					
				Calibrated (cps)	
				1667	2508
Ratio	0.664				
Field Check					
				Calibrated (cps)	
				1665	2449
Ratio	0.680				

Neutron Constants MDN-B.J 387			Last Edited on 22-MAY-2012,21:31
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	Constant Value		
Formation Pressure	0.00	kpsi	
Temperature Source	Constant Value		
Temperature	68.00	degrees F	
Mud Salinity	0.00	kppm	
Salinity Correction	Not Applied		
Formation Fluid Salinity Source	Constant Value		
Formation Fluid Salinity	0.00	kppm	
Barite Mud Correction	Not Applied		

Base Calibration MFE-B.J 352

Base Calibration on 15-MAY-2012 17:11
Field Check on 22-MAY-2012 09:06

Base Calibration

	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	963.4	126.8
Base Check		281.4
Field Check		281.6

FE Constants MFE-B.J 352

Last Edited on 22-MAY-2012,21:32

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 178

Base Calibration on 15-MAY-2012,14:15
Field Check on 22-MAY-2012 09:04

Base Calibration

Test Loop Calibration		Measured		Calibrated (mmho/m)	
Channel		Low	High	Low	High
1		17.6	484.7	9.3	966.2
2		6.2	391.4	7.6	821.4
3		4.0	264.5	5.2	566.0
4		2.3	135.1	2.6	279.2

Array Temperature 77.0 Deg F

Channel	Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High
1	0.0	0.0	12.1	3762.5
2	0.0	0.0	29.5	3466.9
3	0.0	0.0	27.2	3014.1
4	0.0	0.0	18.7	2064.7
Deep	0.0	0.0	15.9	1995.3
Medium	0.0	0.0	40.1	3955.3
Shallow	0.0	0.0	45.2	5081.6

Array Temperature 0.0 71.5 Deg F

Induction Constants MAI-A.A 178

Last Edited on 22-MAY-2012,21:32

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
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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 178			Field Calibration on 03-MAY-2012,01:16
	Measured	Calibrated(Deg F)	
Lower	32.00	32.00	
Upper	68.00	68.00	

High Resolution Temperature Constants MAI-A.A 178		Last Edited on 06-MAY-2012,05:34
Pre-filter Length	11	

Caliper Calibration MPD-B 35			Base Calibration on 15-MAY-2012 15:38 Field Calibration on 22-MAY-2012 09:09	
Base Calibration				
Reading No	Measured	Calibrator Size (in)		
1	21260	3.99		
2	31424	5.98		
3	41761	7.97		
4	51280	9.86		
5	61536	11.92		
6	N/A	N/A		
Field Calibration				
	Measured Caliper (in)	Actual Caliper (in)		
	5.87	5.98		

Photo Density Calibration MPD-B 35					Base Calibration on 15-MAY-2012 15:56 Field Check on 22-MAY-2012 09:17	
Density Calibration						
Base Calibration						
		Measured	Calibrated (sdu)			
	Near	Far	Near	Far		
Reference 1	62707	32170	59556	30836		
Reference 2	26808	2860	24941	2541		
Field Check at Base						
	1145.6	1360.5				
Field Check						
	1143.5	1358.7				
PE Calibration						
Base Calibration						
	WS	Measured	Calibrated			
		WH	Ratio	Ratio		
Background	206	1009				
Reference 1	23065	62504	0.372	0.371		
Reference 2	7038	26659	0.266	0.272		
Field Check at Base						
	206.0	1009.0				
Field Check						
	205.6	1008.4				

Density Constants MPD-B 35		Last Edited on 22-MAY-2012,21:32
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 (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\Comanche Resources James # 31-1\Comanche Resources James # 31-1_004.dta

MCB-A.A 11B Tension Cablehead
MCB-A.A 161 LG: 2.40 ft WT: 19.8 lb OD: 2.24 in

Compact Comms Gamma
MCG-B 39 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Micro-log
MML-A 4 LG: 7.97 ft WT: 81.6 lb OD: 2.24 in

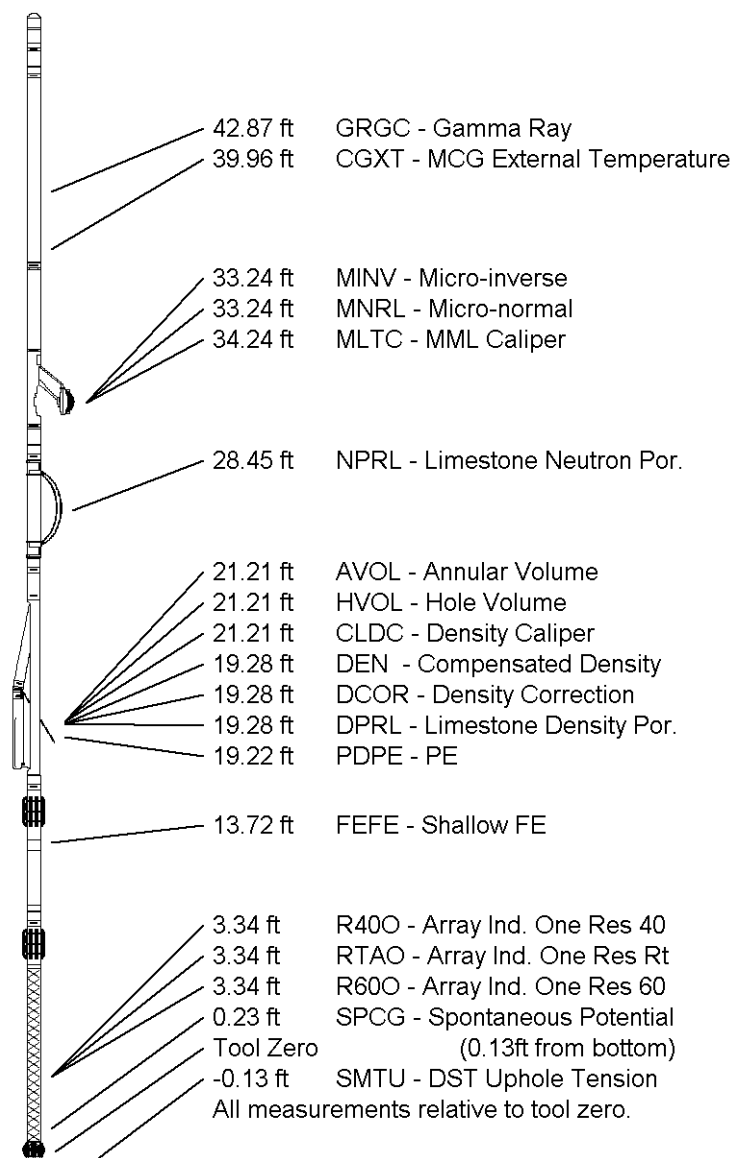
Compact Neutron
MDN-B.J 387 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper
MPD-B 35 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 178 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 50.55 ft Weight: 403.4 lb



COMPANY
WELL
FIELD

COMANCHE RESOURCES CO., LLC
JAMES # 31-1
WILDCAT

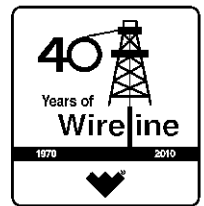
FIELD WILDCAT
PROVINCE/COUNTY SCOTT
COUNTRY/STATE U.S.A. / KANSAS

Elevation Kelly Bushing	3077.00	feet	First Reading	4989.00	feet
Elevation Drill Floor	3075.00	feet	Depth Driller	5000.00	feet
Elevation Ground Level	3066.00	feet	Depth Logger	4992.00	feet

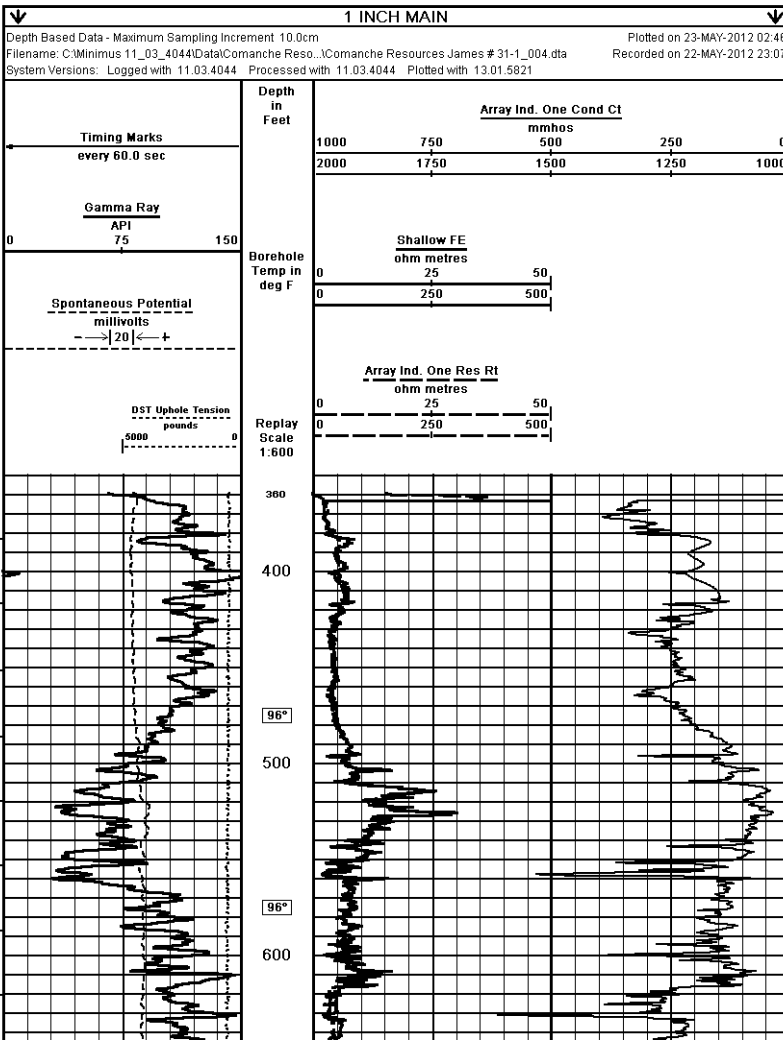


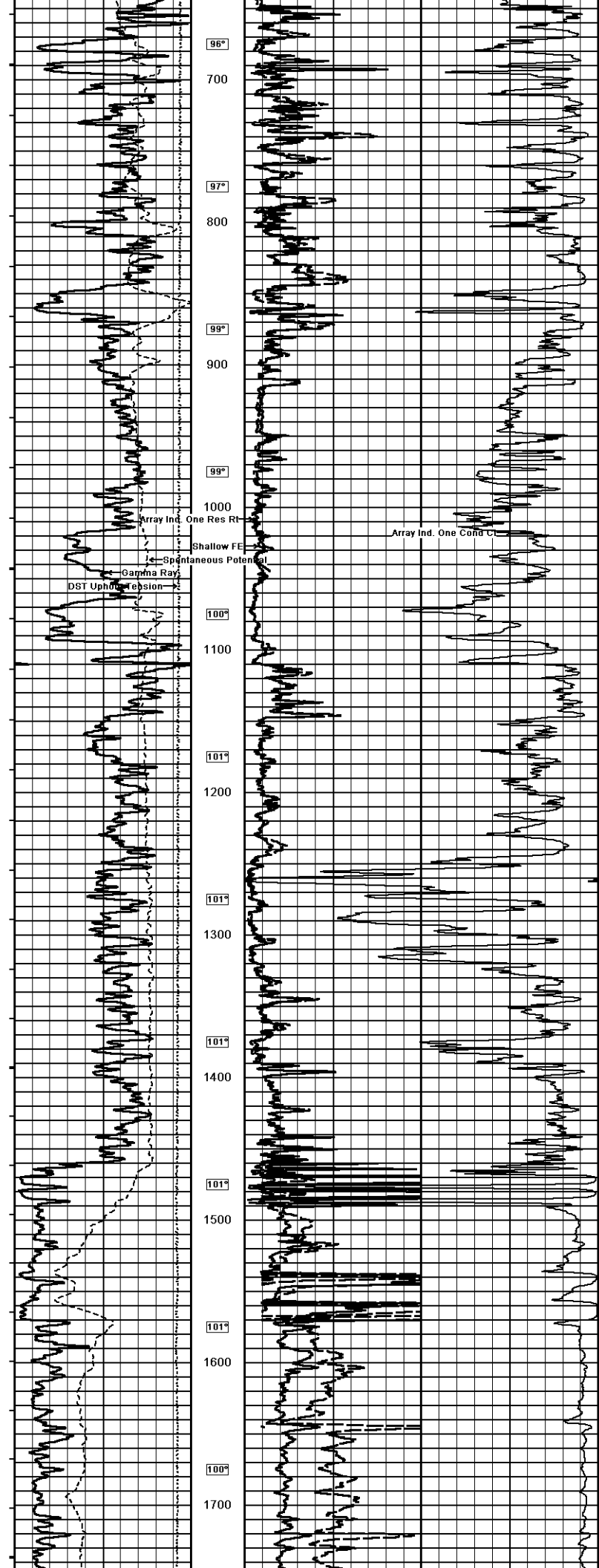
Weatherford®

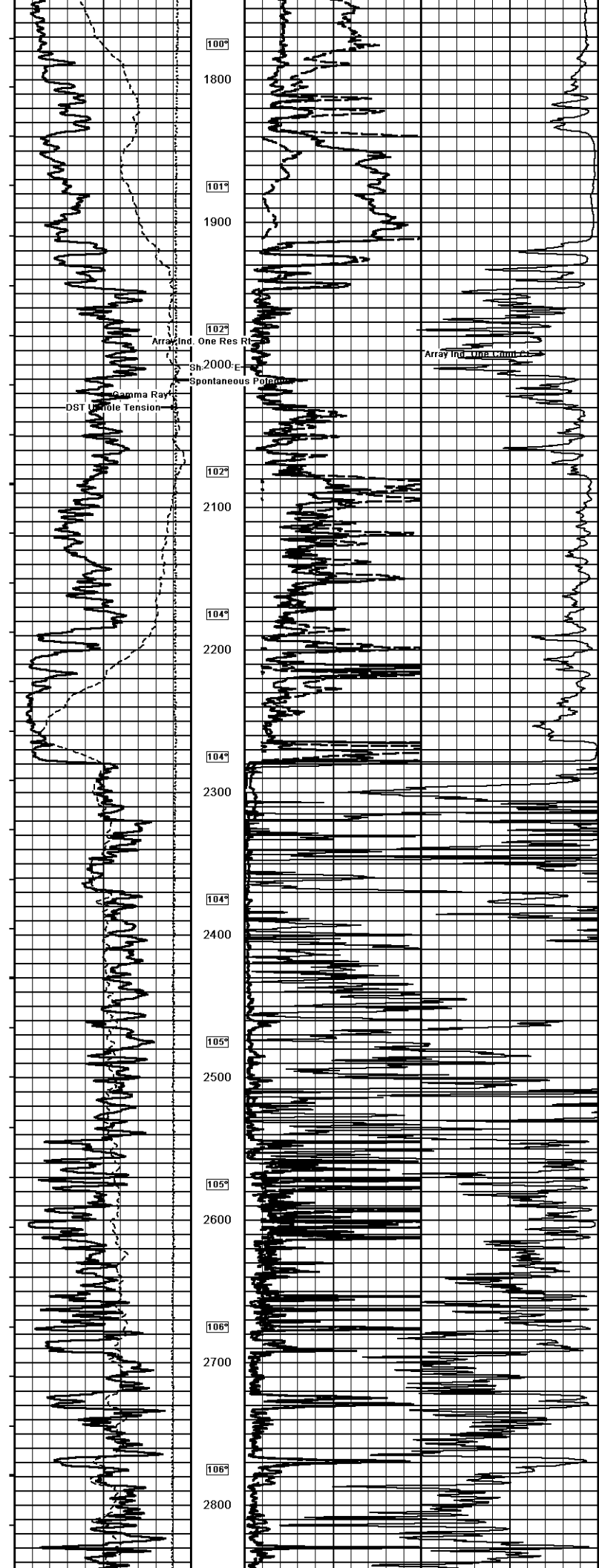
ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG

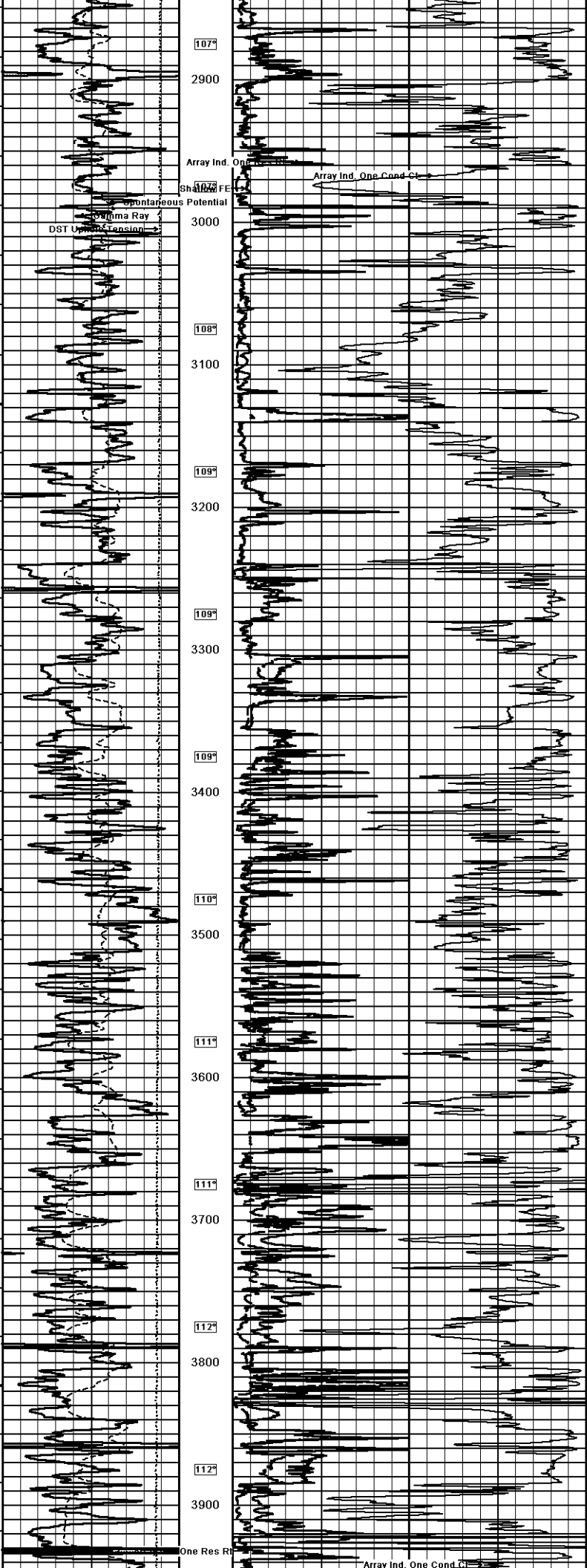


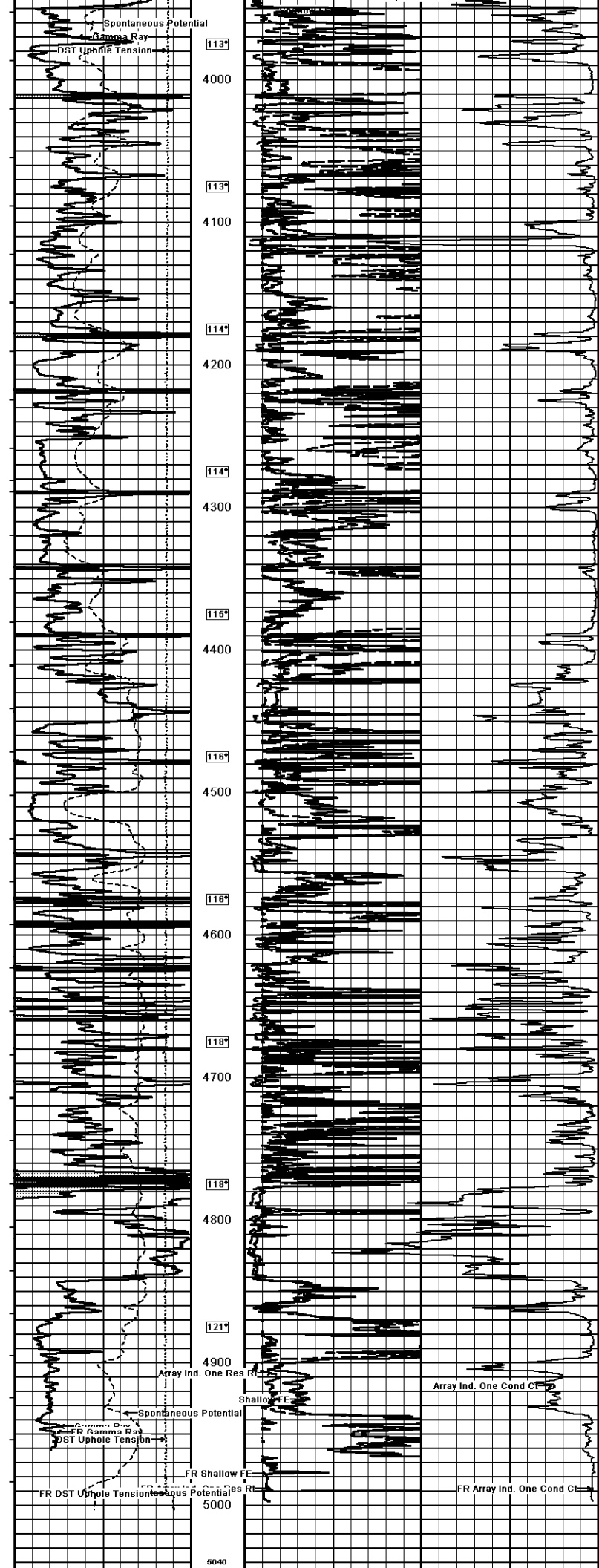
Weatherford		ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG	
COMPANY COMANCHE RESOURCES CO., LLC			
WELL JAMES # 31-1			
PROVINCE/COUNTY WILDCAT			
COUNTRY/STATE SCOTT			
LOCATION U.S.A. / KANSAS			
2300' FSL & 330' FEL			
S2 NE NE SE			
SEC	Type	LOG	Other Services
ST	1195	34W	W/D/CON
Permit Number	15-171-20891	WML	
Permanent Datum G.L. Elevation 3066 feet			
Log Measured From KB			
Drilling Measured From K.B			
Date	22-MAY-2012		
Run Number	ONE		
Depth Driller	5000.00	feet	
Depth Logger	4992.00	feet	
First Reading	4989.00	feet	
Last Reading	359.00	feet	
Casing Driller	362.00	feet	
Casing Logger	359.00	feet	
Bit Size	7/8.5	inches	
Hole Fluid Type	CHEMICAL		
Density/Viscosity	9.20 lbbl/99	60.00 CP	
PH / Fluid Loss	11.00	5.00 ml/30min	
Sample Source	FLOWLINE		
Rm @ Measured Temp	0.80 @ 71.0	ohm-m	
Rm @ Measured Temp	0.64 @ 71.0	ohm-m	
Rm @ Measured Temp	0.96 @ 71.0	ohm-m	
Source Rm / Rmc	CALC	CALC	
Rm @ BHT	0.49 @ 20.0	ohm-m	
Time Since Circulation	5 HOURS		
Max Recorded Temp	121.00	deg F	
Equipment Name	COMACT		
Equipment Base	13008		
Recorded by	A. GORMEALVO	LB	
Witnessed by	JIM SPELLMAN		
SOI JOB #	3534547		
			TROY FOWLER LE12-131

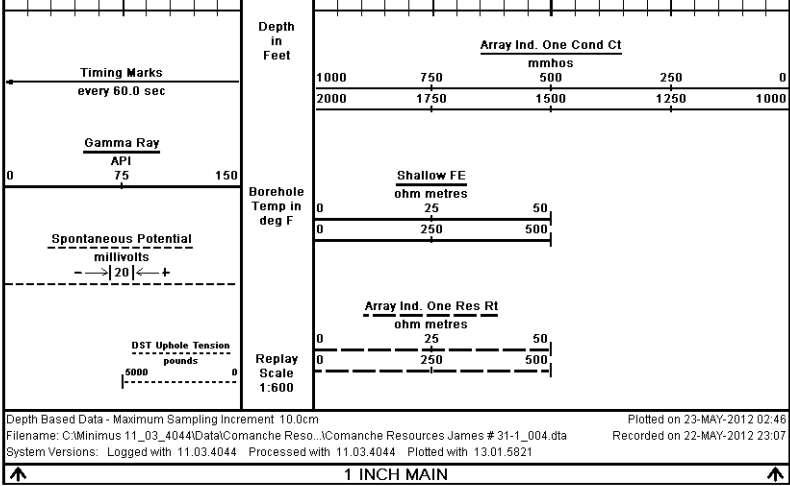












COMPANY		COMANCHE RESOURCES CO., LLC			
WELL		JAMES # 31-1			
FIELD		WILDCAT			
PROVINCE/COUNTY		SCOTT			
COUNTRY/STATE		U.S.A. / KANSAS			
Elevation Kelly Bushing	3077.00	feet	First Reading	4989.00	feet
Elevation Drill Floor	3075.00	feet	Depth Driller	5000.00	feet
Elevation Ground Level	3066.00	feet	Depth Logger	4992.00	feet
		ARRAY INDUCTION			
		SHALLOW FOCUSED			
		ELECTRIC LOG			
					