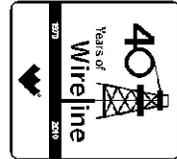




**Weatherford**

**ARRAY INDUCTION  
SHALLOW FOCUSED  
ELECTRIC LOG**

COMPANY O'BRIEN ENERGY RESOURCES CORP.  
 WELL MEADE LAKE OFFSET #2-13  
 FIELD WILDCAT  
 PROVINCE/COUNTY MEADE  
 COUNTRY/STATE U.S.A. / KANSAS  
 LOCATION 430' FNL & 350' FWL  
 SE NW NW NW



SEC TWP RGE Other Services  
 13 33S 29W MPD/MDN MML  
 API Number 15-119-21299  
 Permit Number  
 Permanent Datum G.L., Elevation 2505 feet  
 Log Measured From KB Elevations: 2516.00  
 Drilling Measured From K.B. DF 2514.00  
 GL 2505.00

Date	04-OCT-2011
Run Number	ONE
Depth Driller	6250.00 feet
Depth Logger	6254.00 feet
First Reading	6251.00 feet
Last Reading	1462.00 feet
Casing Driller	1462.00 feet
Casing Logger	1462.00 feet
Bit Size	7.875 inches
Hole Fluid Type	CHEMICAL
Density / Viscosity	9.10 lb/USg 47.00 CP
PH / Fluid Loss	10.00 8.00 ml/30Min
Sample Source	FLOWLINE
Rm @ Measured Temp	0.99 @ 90.0 ohm-m
Rmf @ Measured Temp	0.79 @ 90.0 ohm-m
Rmc @ Measured Temp	1.19 @ 90.0 ohm-m
Source Rmf / Rmc	CALC CALC
Rm @ BHT	0.70 @127.0 ohm-m
Time Since Circulation	4 HOURS
Max Recorded Temp	127.00 deg F
Equipment Name	COMPACT
Equipment / Base	13025 LIB
Recorded By	L. SCOTT
Witnessed By	PETER DEBENHAM
S.O.# / JOB#	3531195
	ROGER PEARSON
	LB11-254

BOREHOLE RECORD			Last Edited: 04-OCT-2011 04:52
Bit Size inches	Depth From feet	Depth To feet	
7.875	1462.00	6254.00	
CASING RECORD			
Type	Size inches	Depth From feet	Shoe Depth feet
SURFACE	8.625	0.00	1462.00
			Weight pounds/ft
			24.00

**REMARKS**

Tools Run: MAI, MPD, MCG, MDN, MFE, MML,  
 Hardware: MPD: 8 inch profile plate used. MAI and MFE: 0.5 inch standoffs used. MDN: Dual Eccentralizer used.  
 2.71 G/CC Limestone density matrix used to calculate porosity.  
 Borhole rugosity, tight pulls, and washouts will affect data quality.  
 All intervals logged and scaled per customer's request.  
 Annular volume with 4.5 inch production casing= 549 cu. ft.  
 Service order #3531195  
 Rig: Duke #6  
 Engineer: L. Scott  
 Operator(s): K. Rinehart, B. Johnson

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

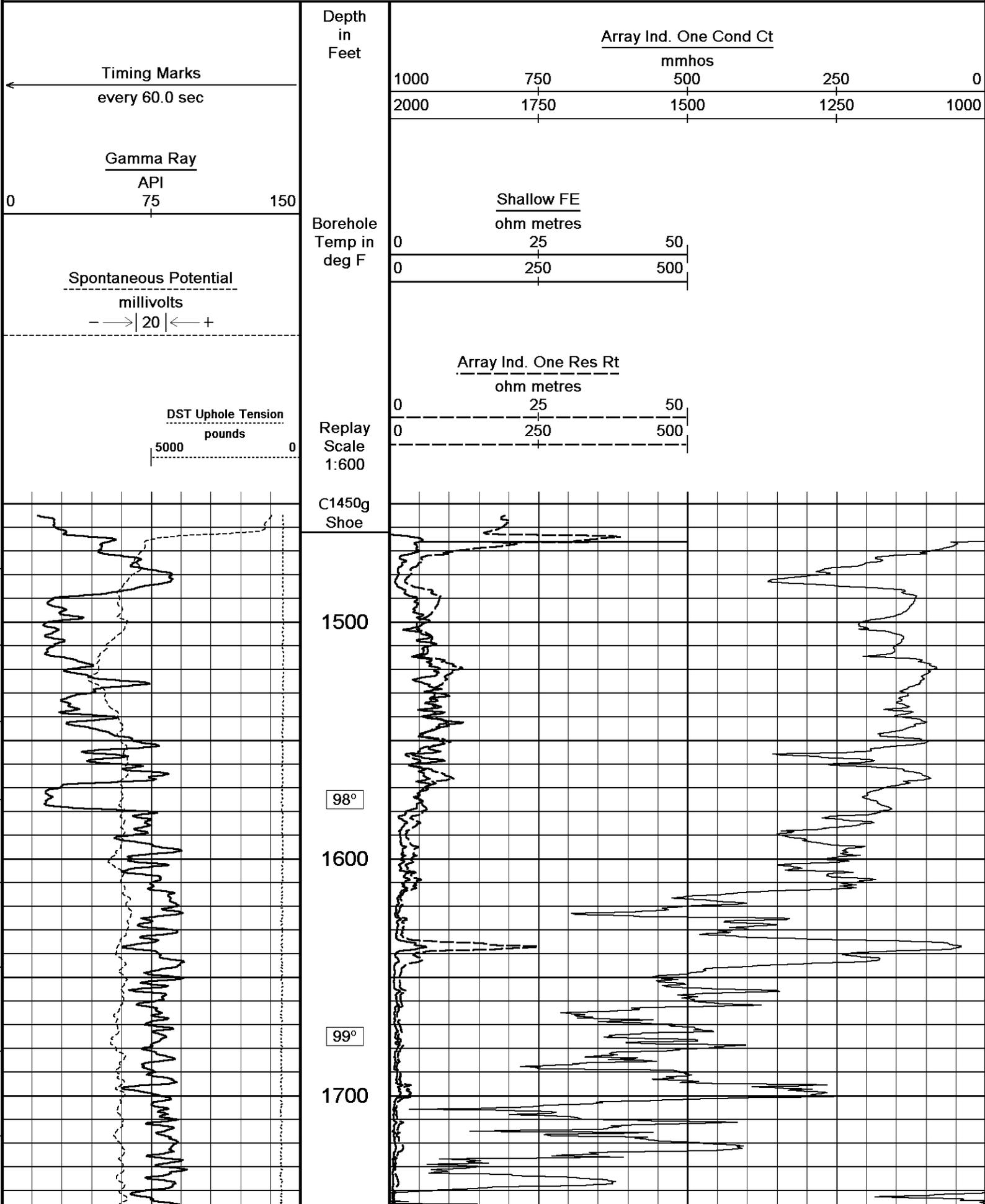
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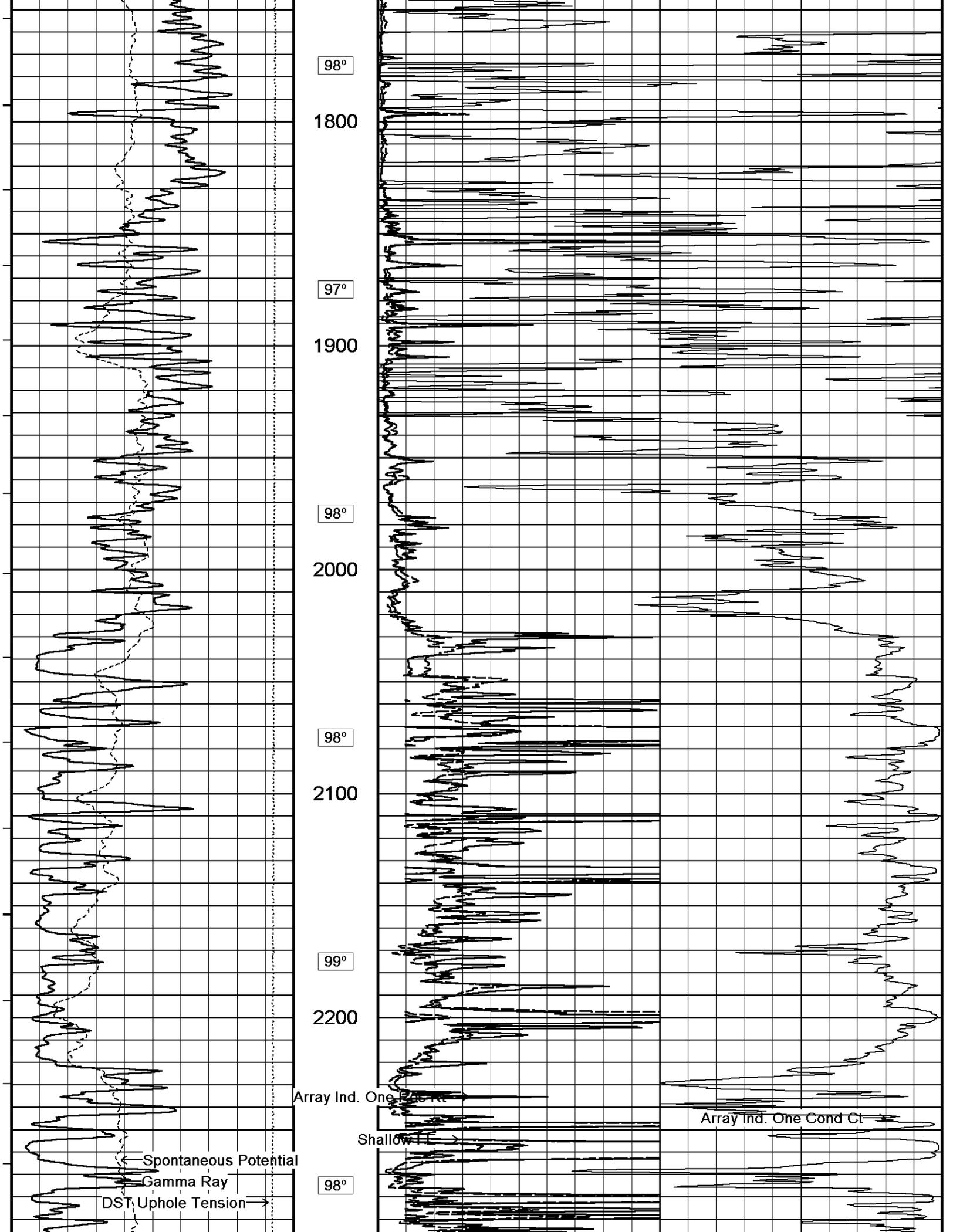
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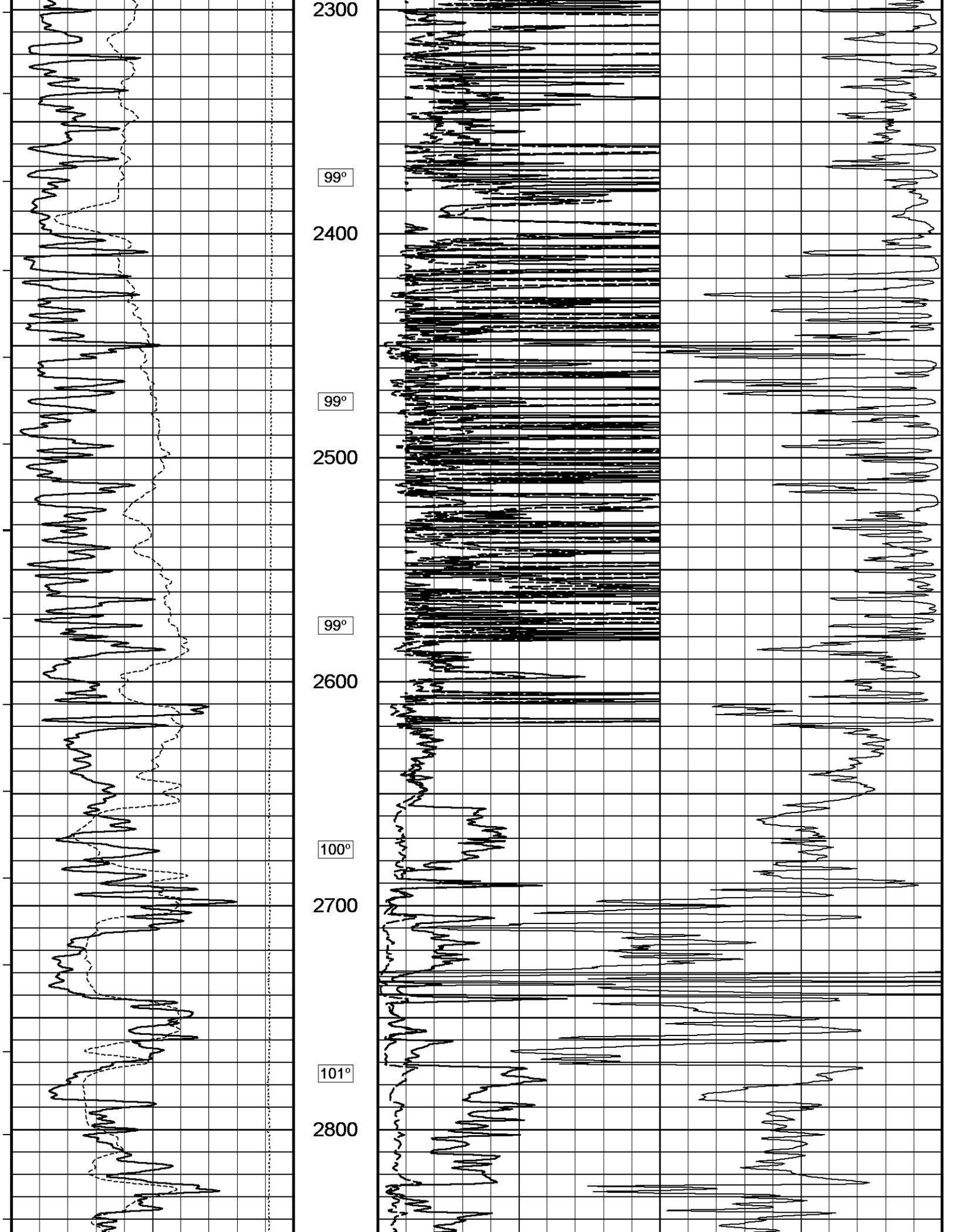
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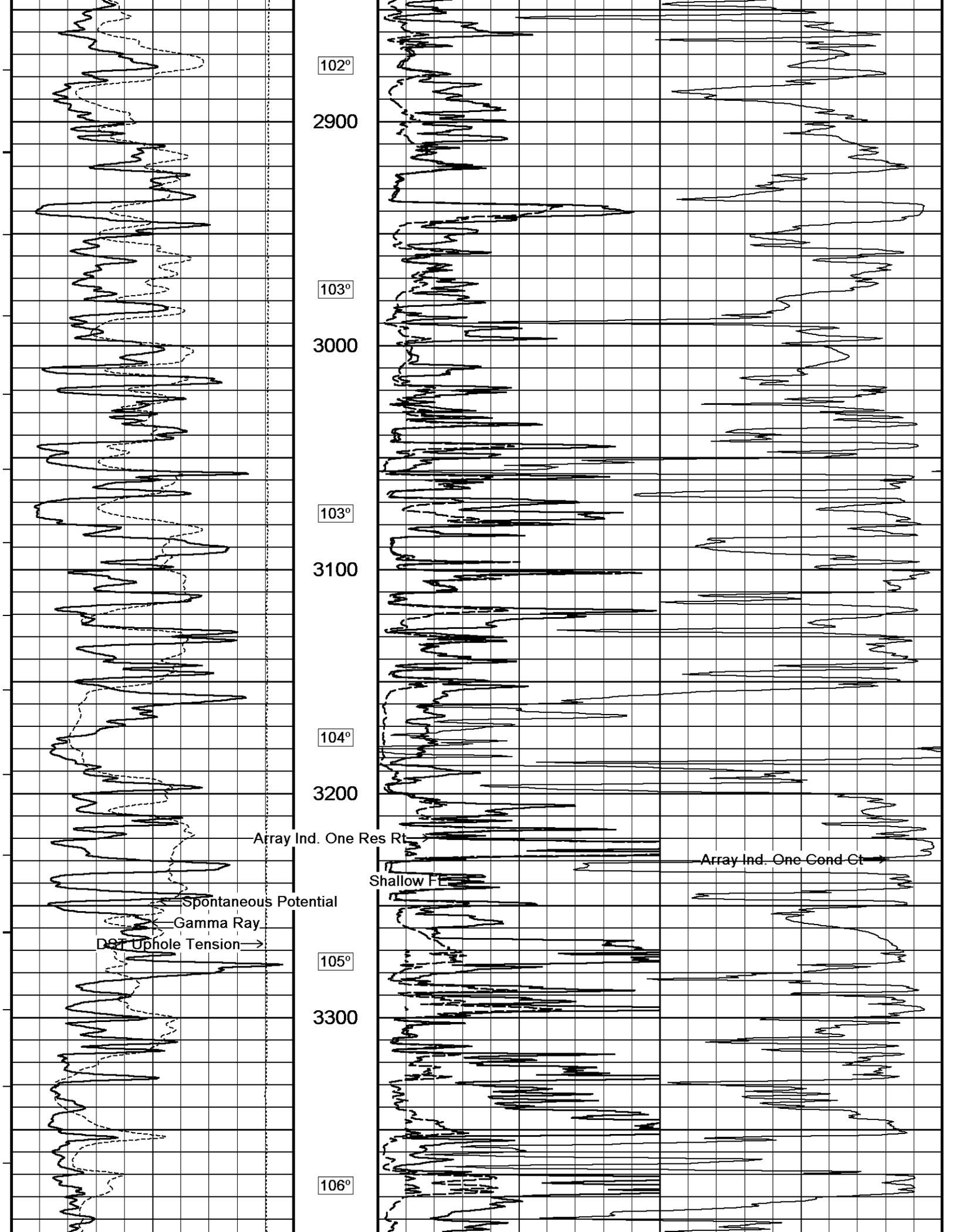
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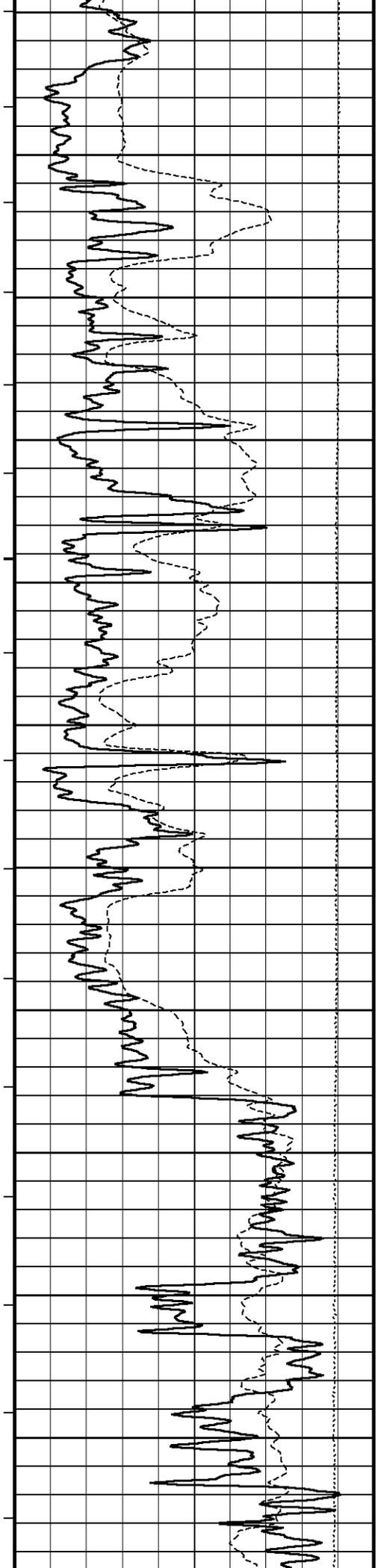
System Versions: Logged with 11.03.4044 Processed with 11.03.4044 Plotted with 12.01.3513



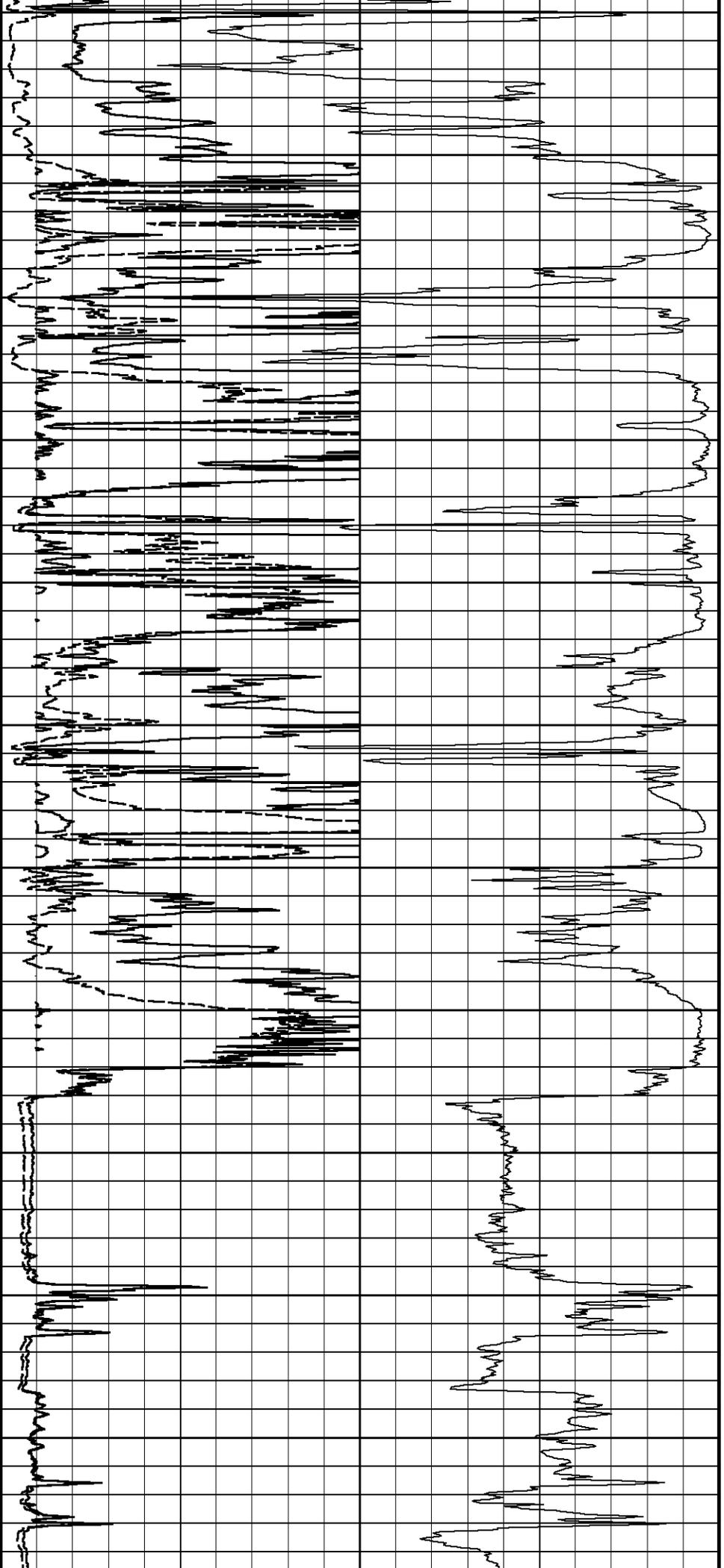


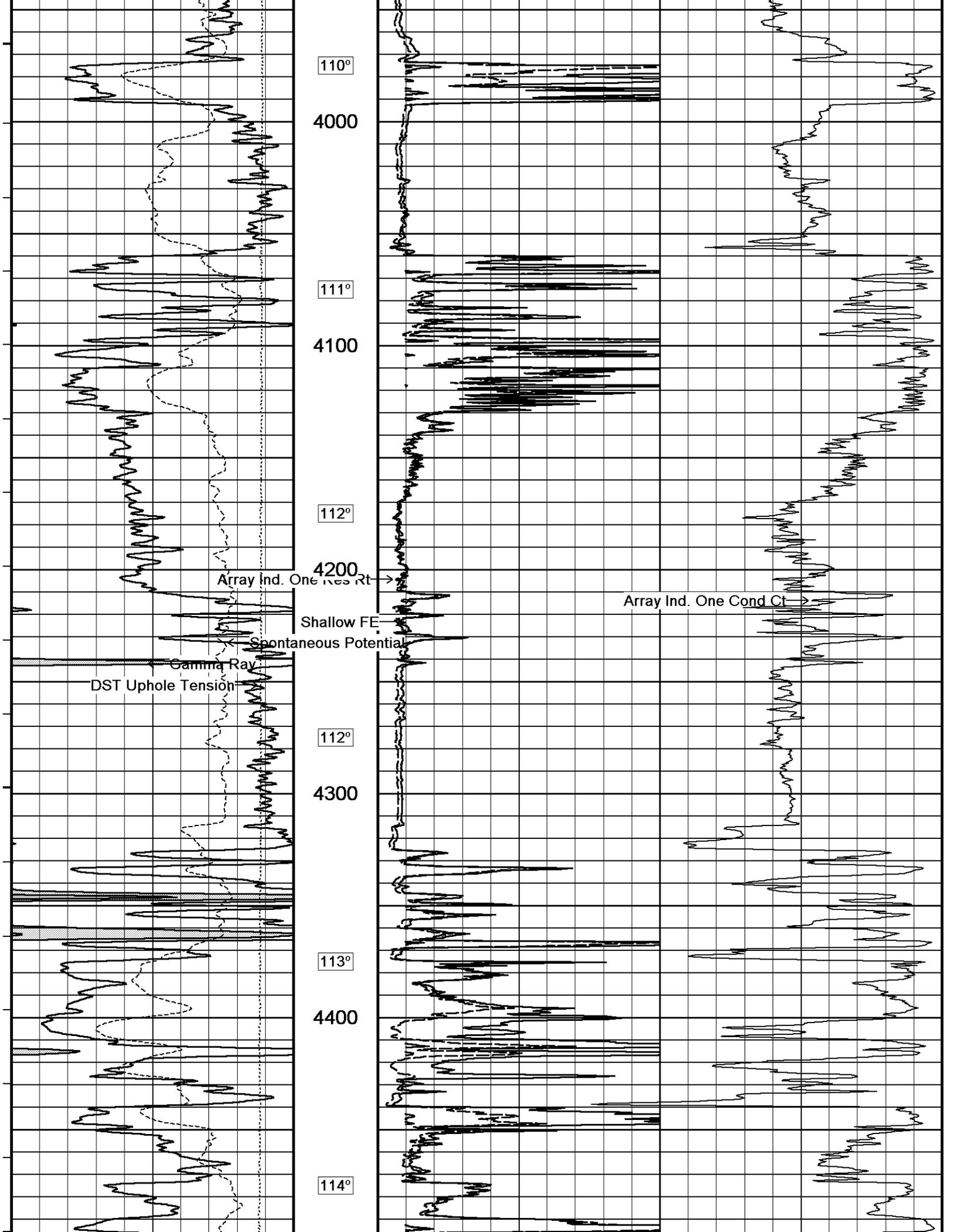


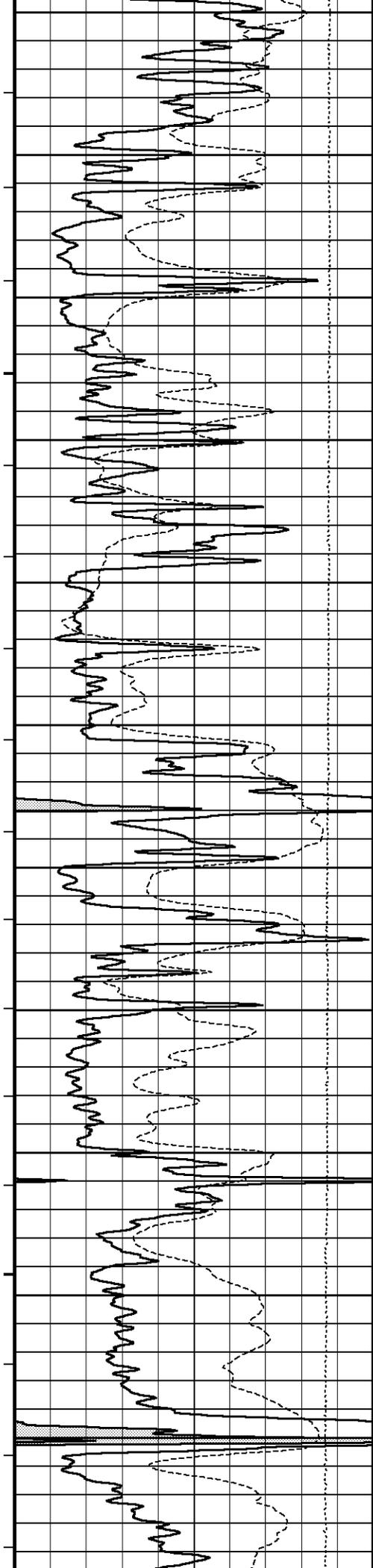




3400  
106°  
3500  
107°  
3600  
108°  
3700  
108°  
3800  
109°  
3900







4500

115°

4600

115°

4700

116°

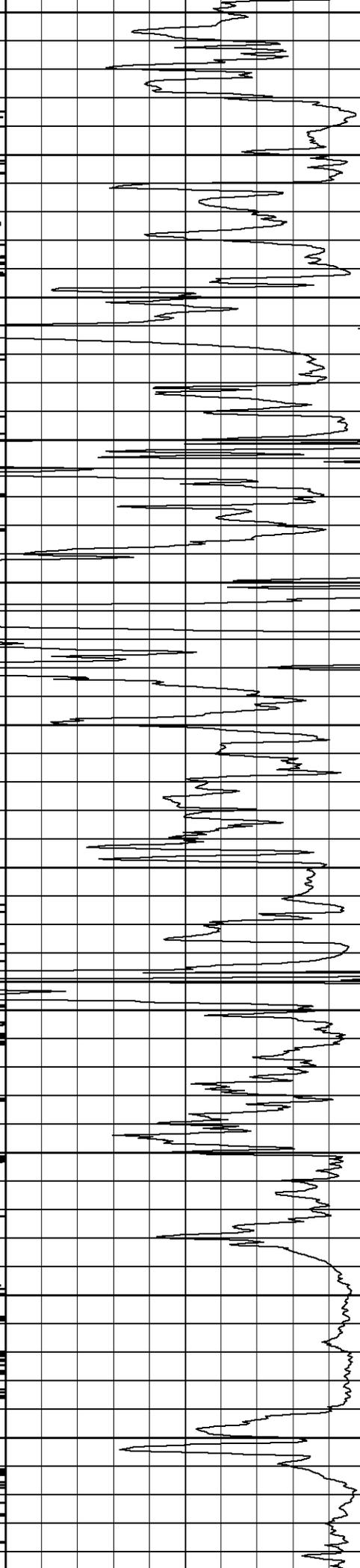
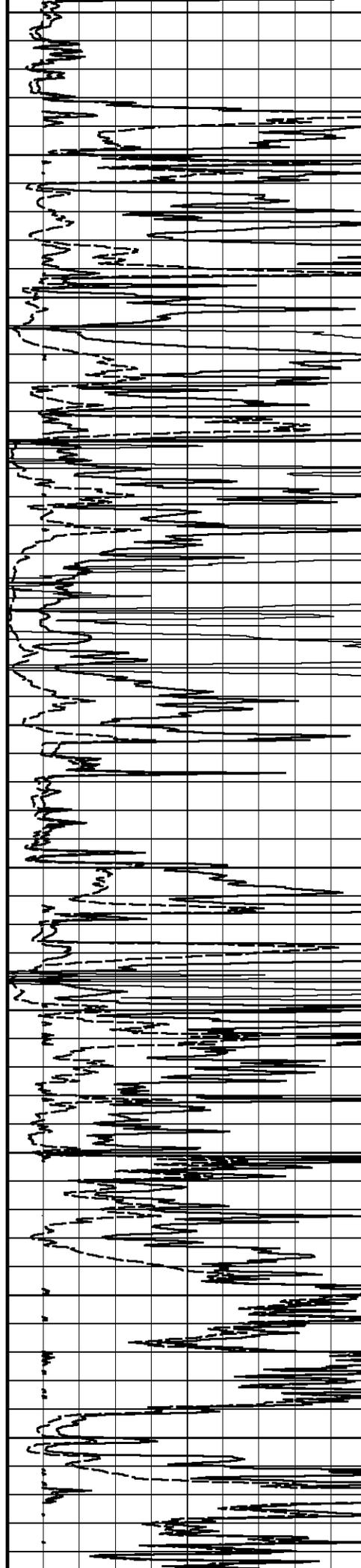
4800

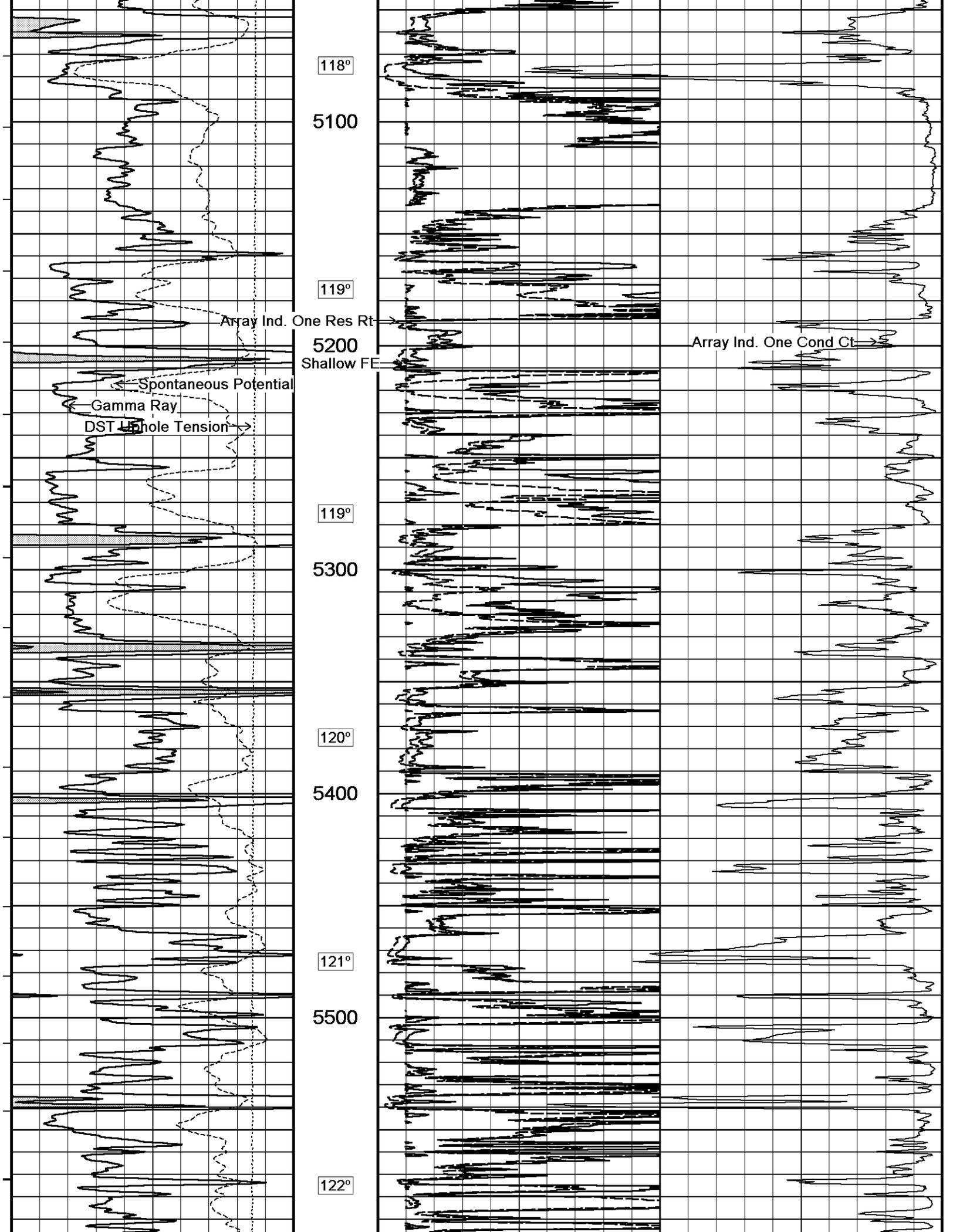
117°

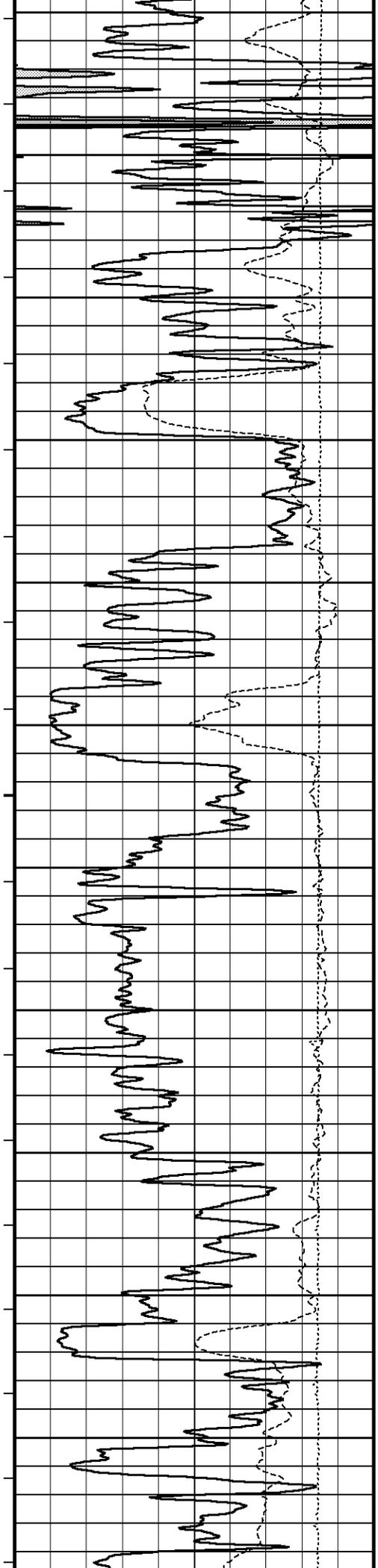
4900

117°

5000







5600

122°

5700

123°

5800

123°

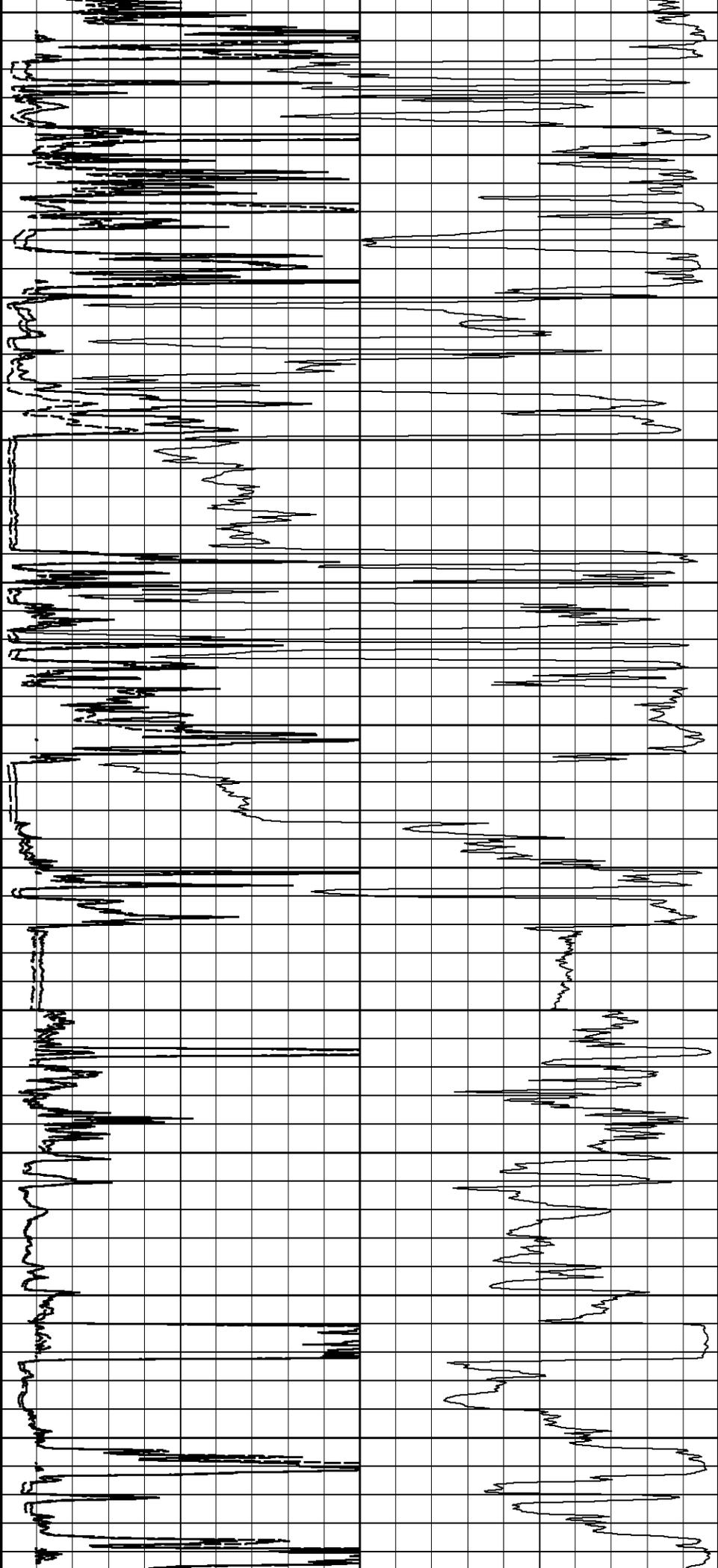
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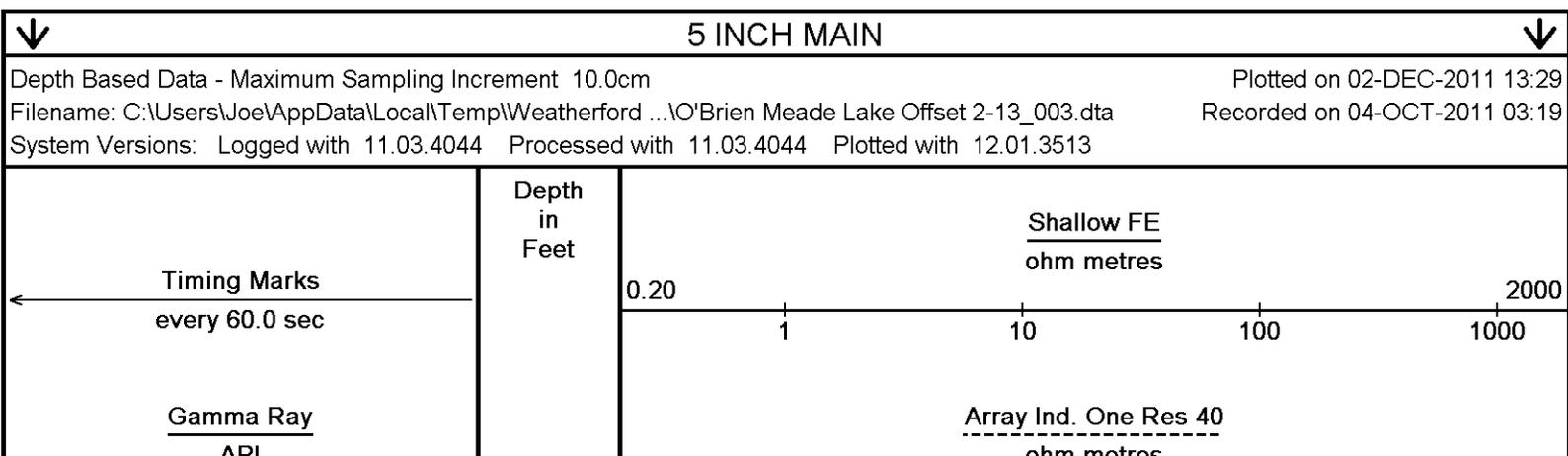
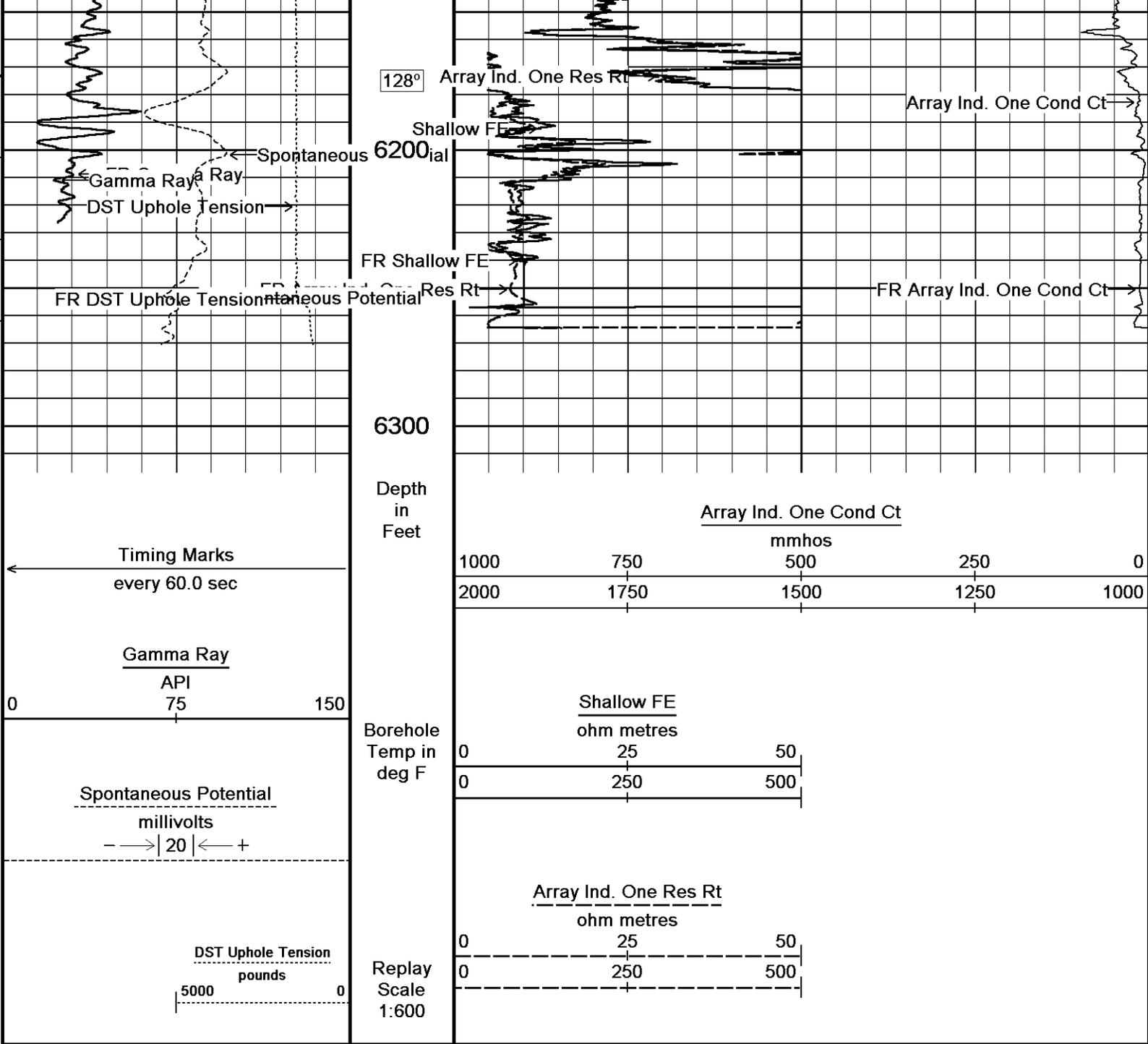
124°

6000

127°

6100





0 75 150

Spontaneous Potential

millivolts

- -> | 20 | <- +

DST Uphole Tension

pounds

5000 0

Borehole Temp in deg F

Replay Scale 1:240

4000

110°

4050

111°

4100

111°

4150

0.20 1 10 100 1000 2000

Array Ind. One Res 60

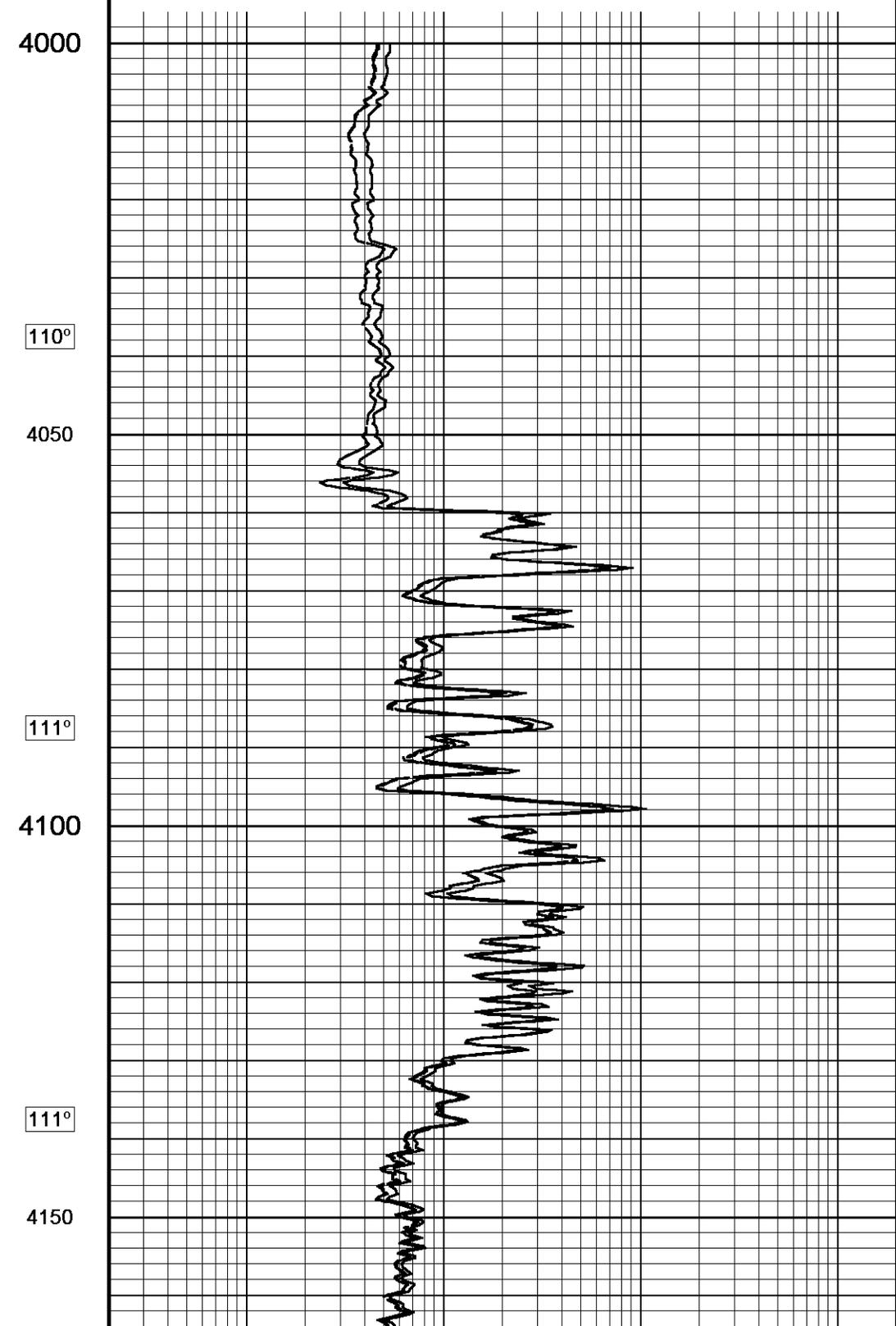
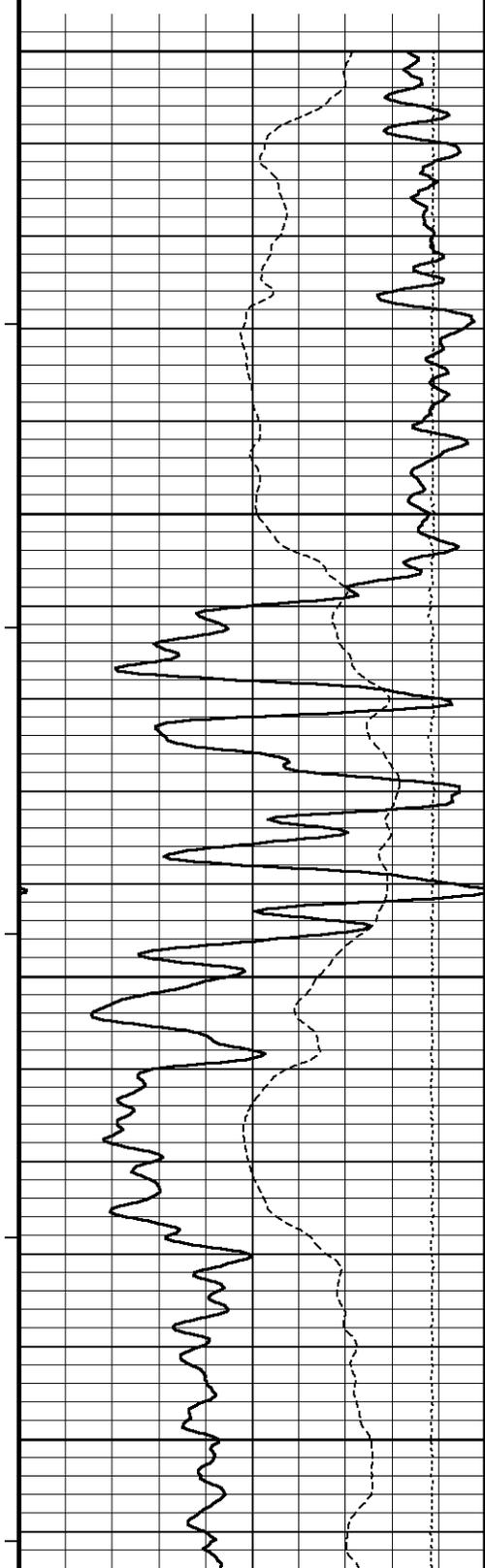
ohm metres

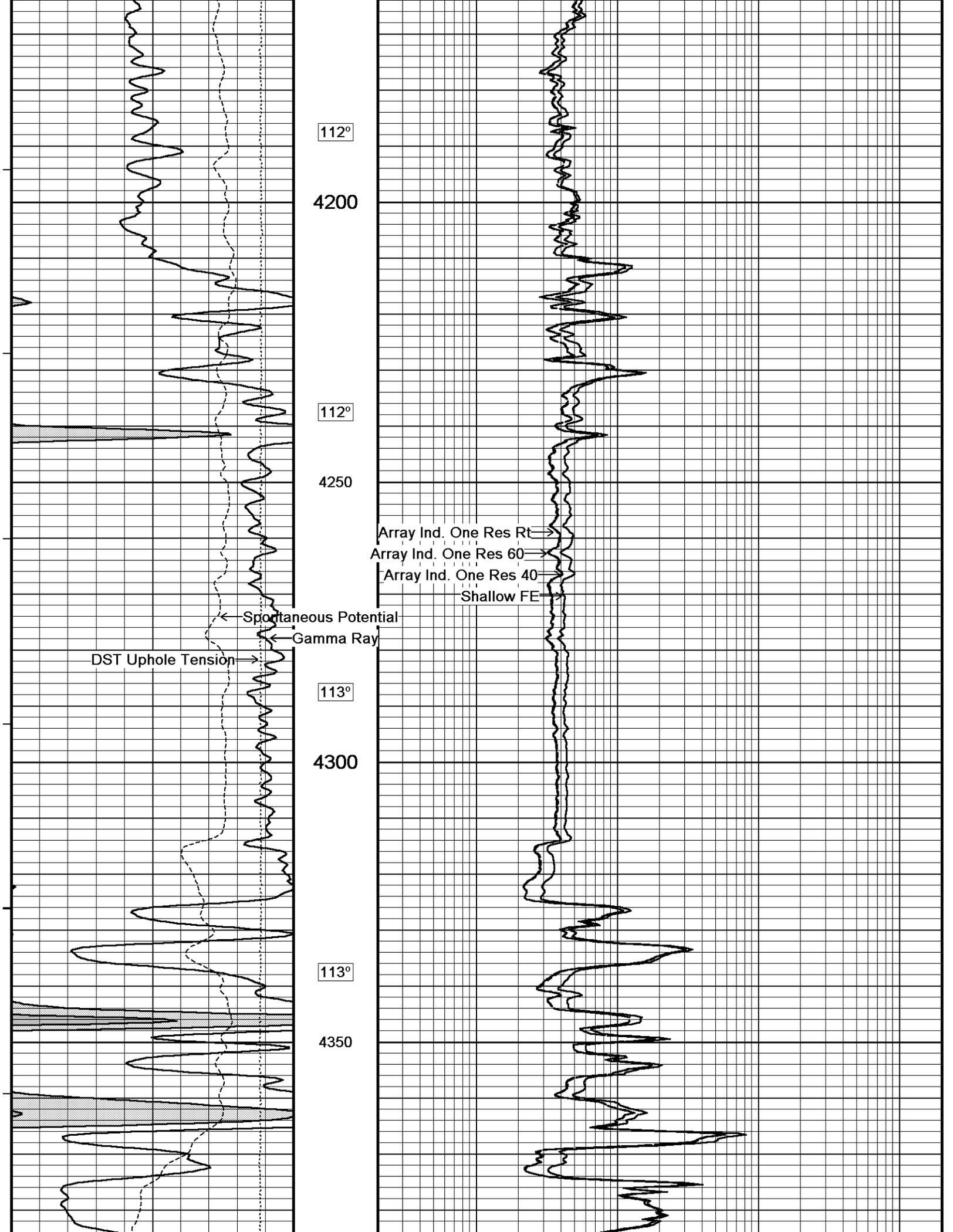
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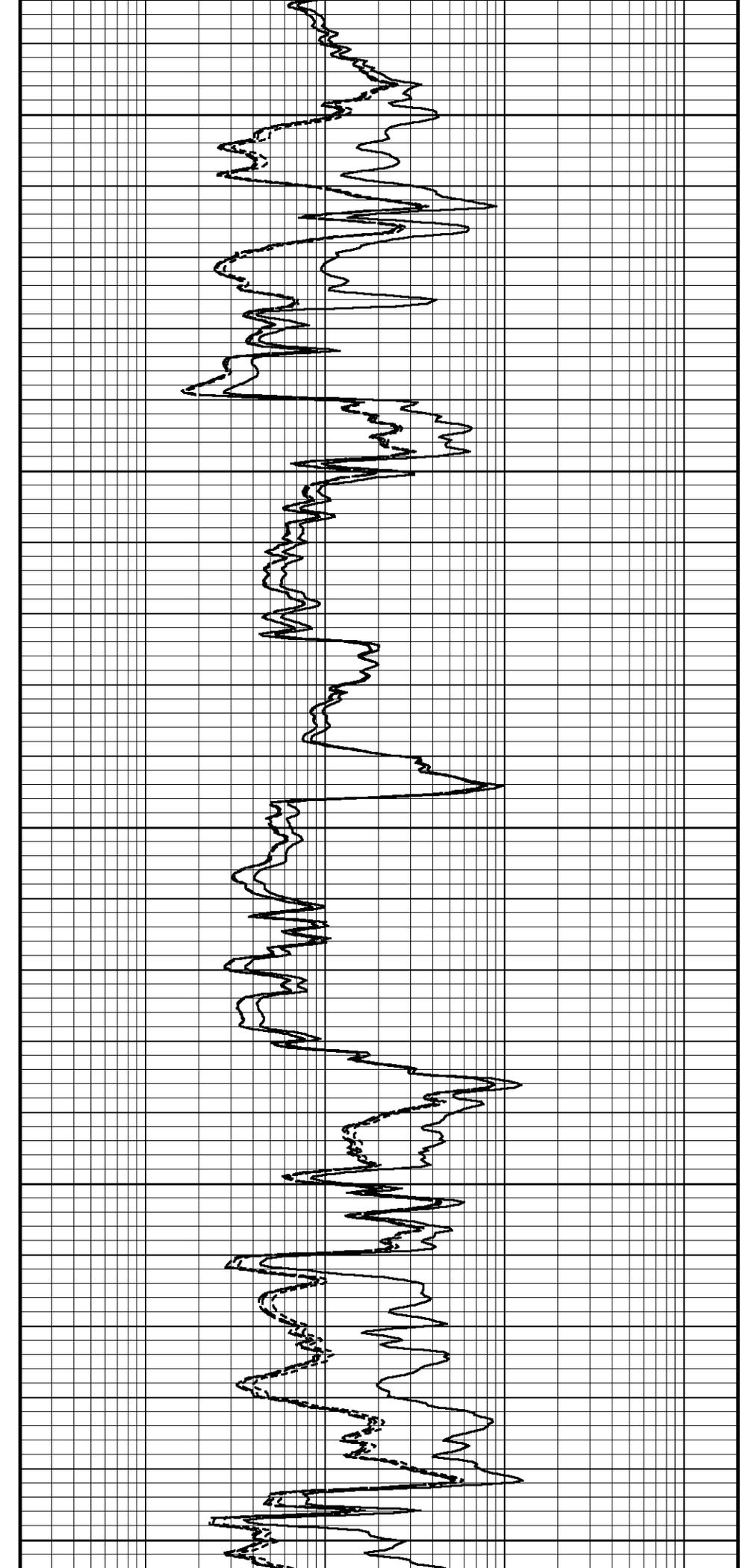
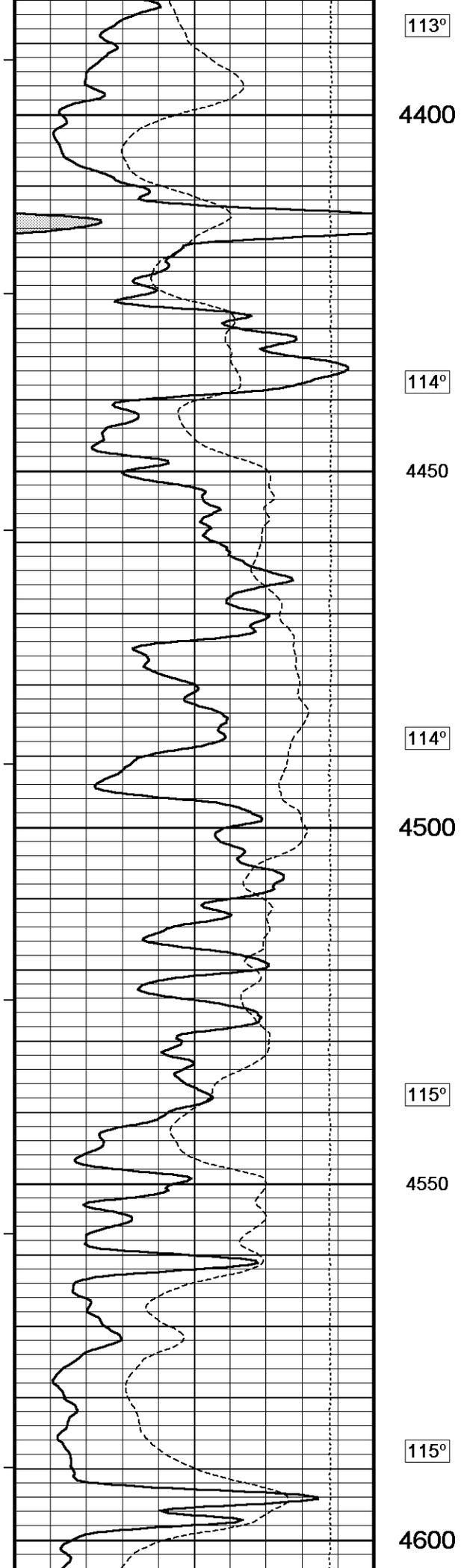
Array Ind. One Res Rt

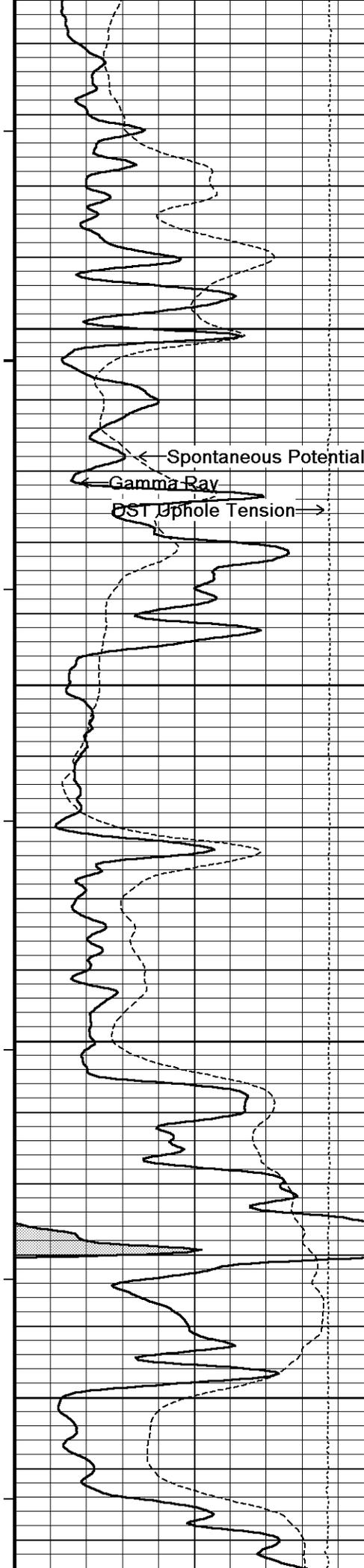
ohm metres

0.20 1 10 100 1000 2000









115°

4650

Array Ind. One Res R

Array Ind. One Res 60

Array Ind. One Res 40

Shallow FF

116°

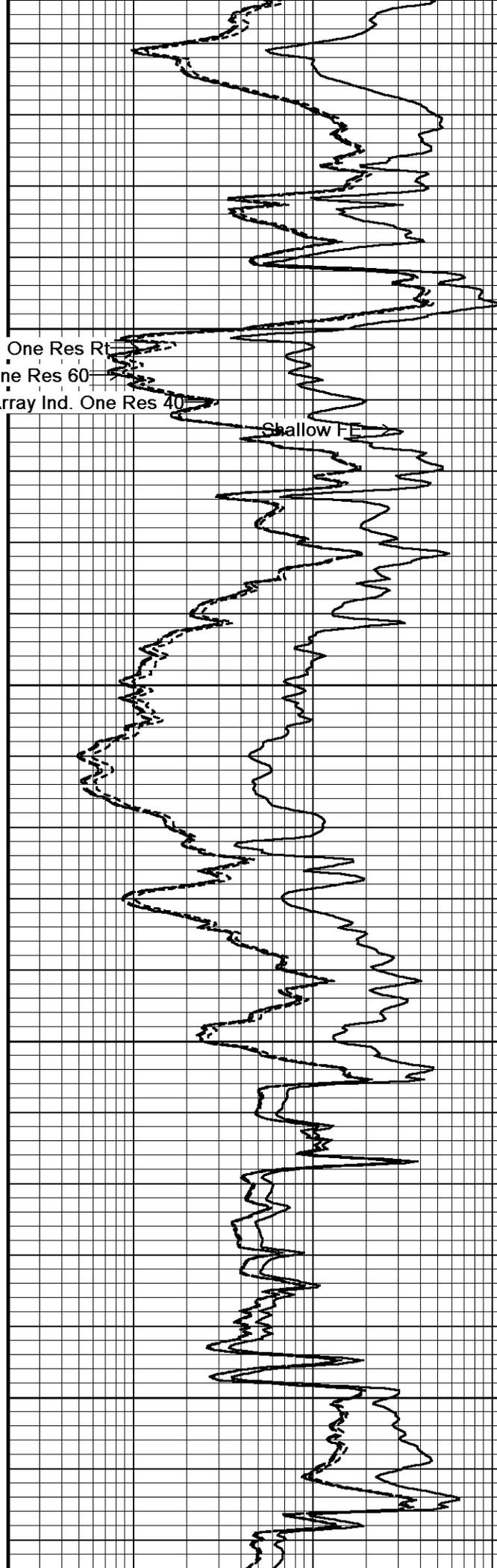
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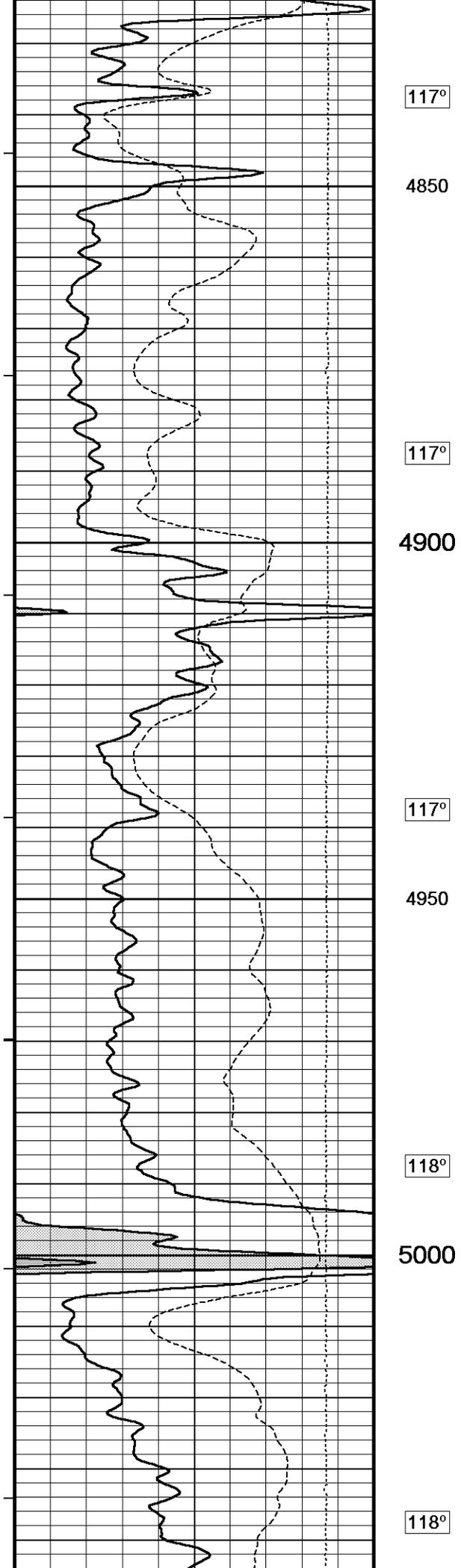
116°

4750

116°

4800





117°

4850

117°

4900

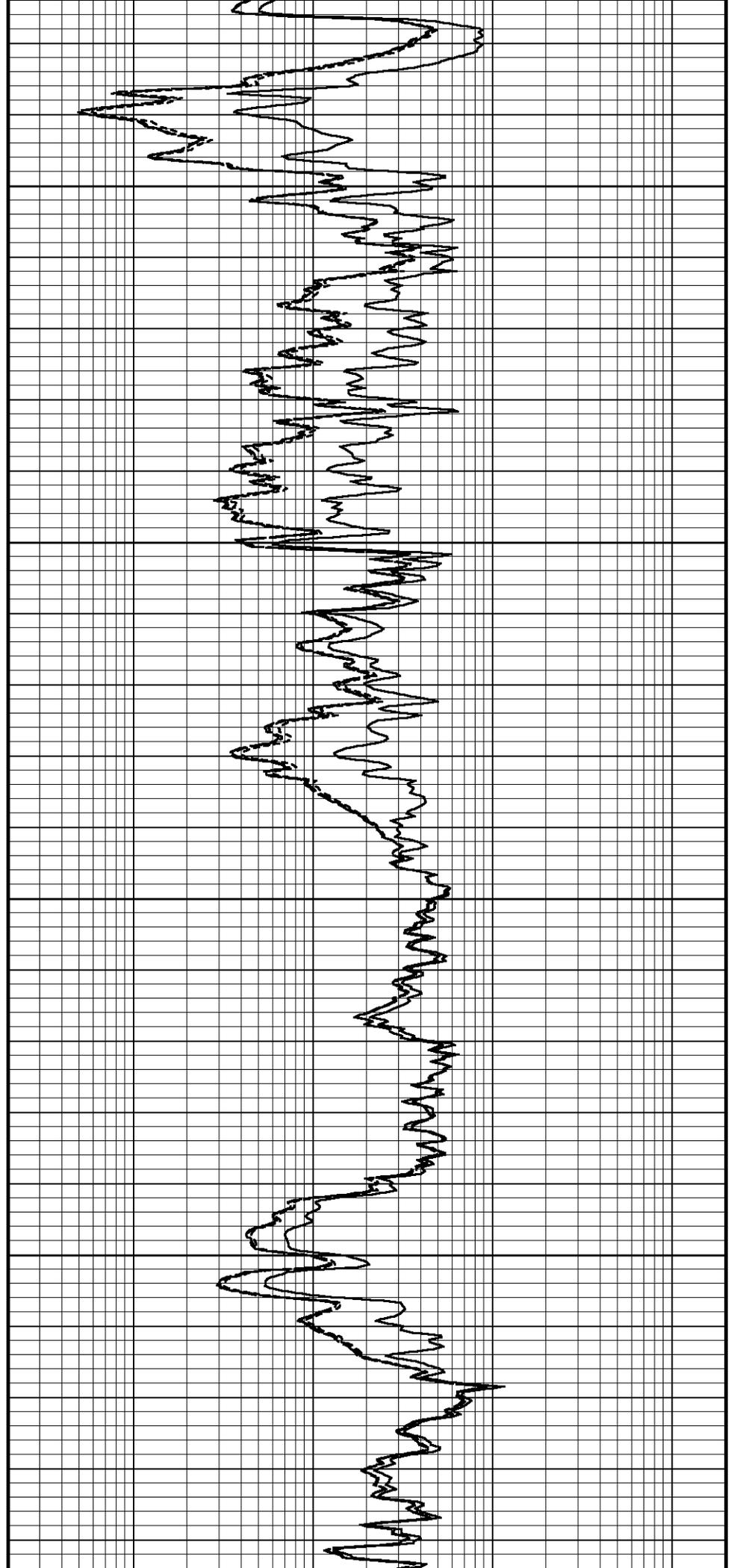
117°

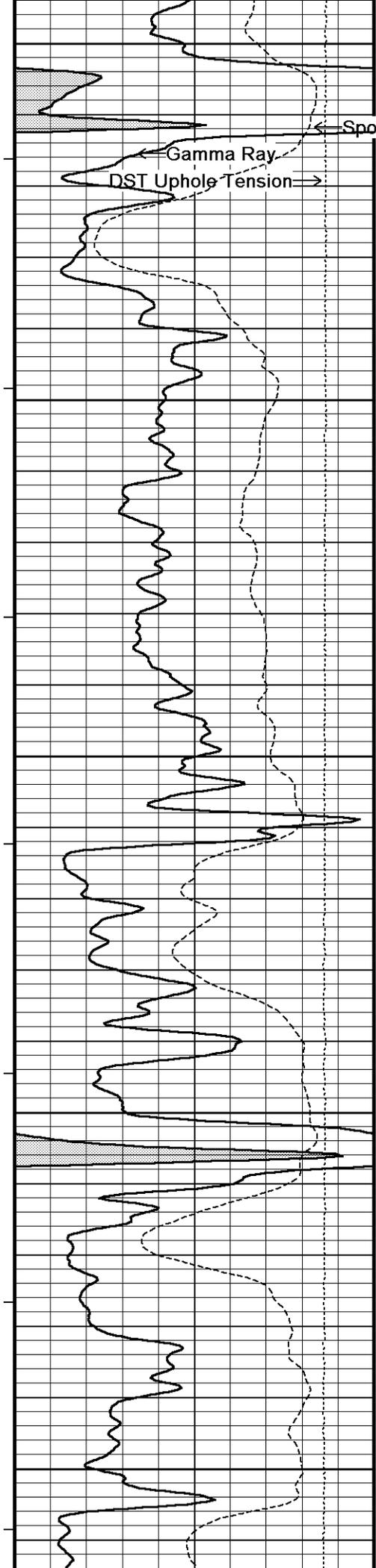
4950

118°

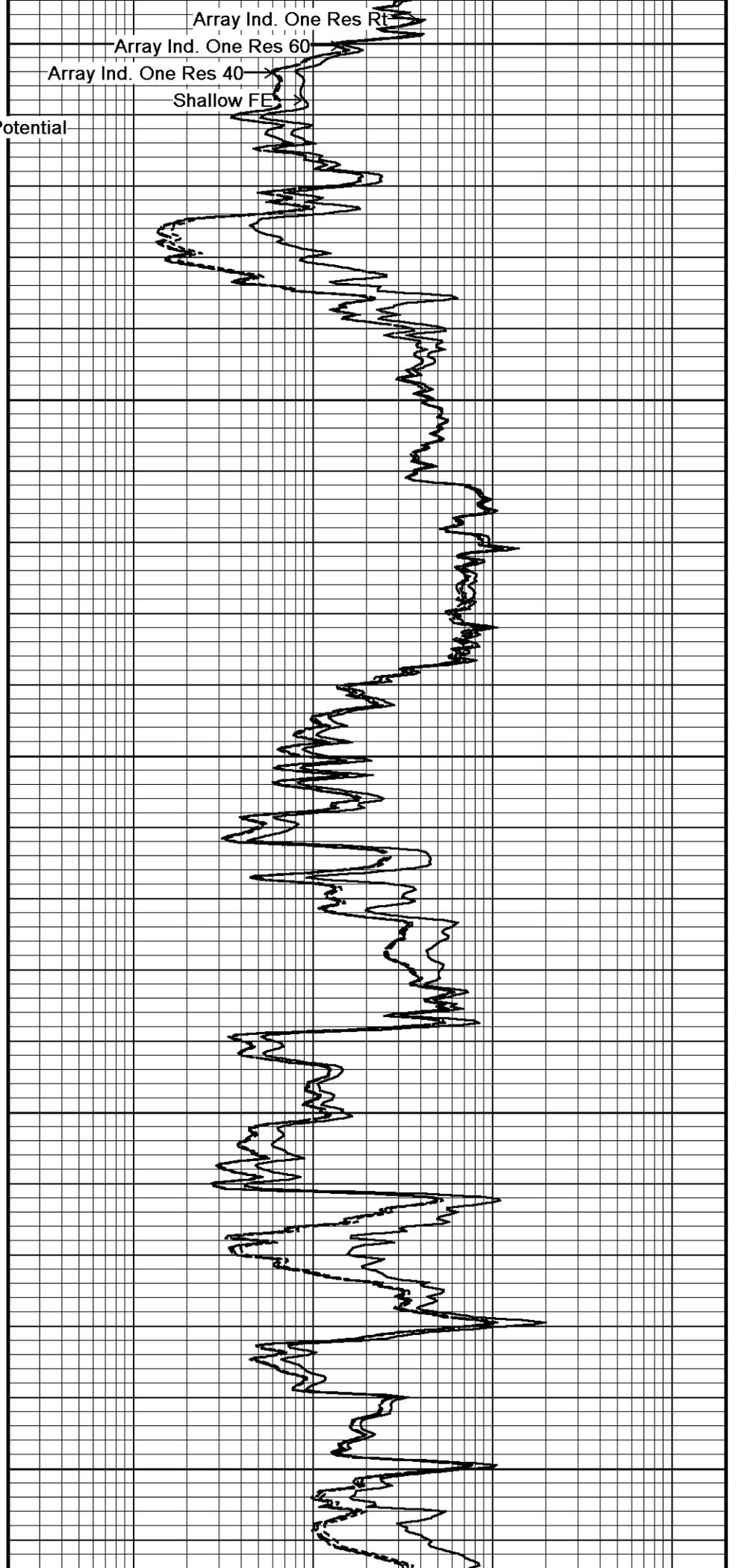
5000

118°

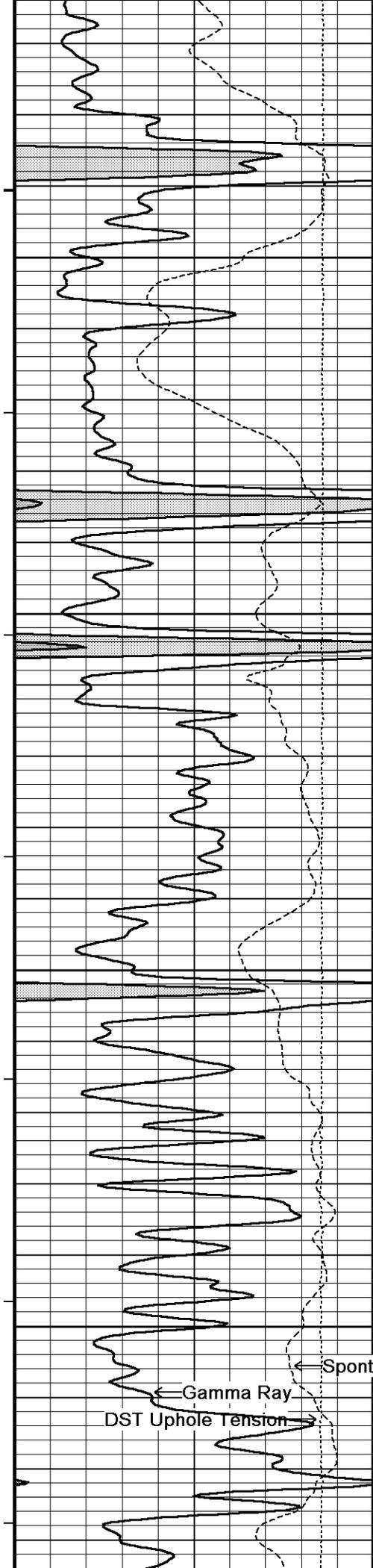




5050  
118°  
5100  
118°  
5150  
119°  
5200  
119°  
5250



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



120°

5300

120°

5350

120°

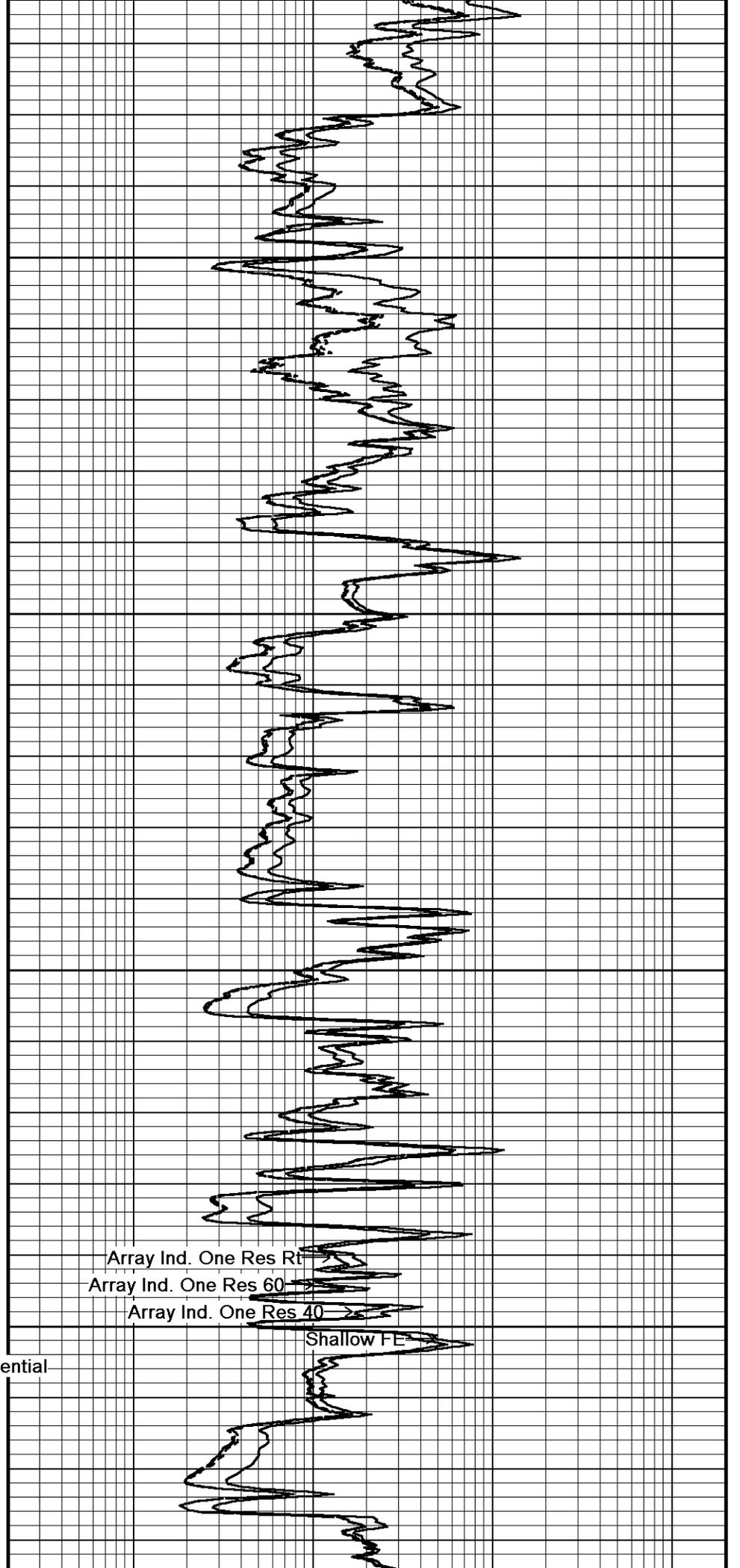
5400

121°

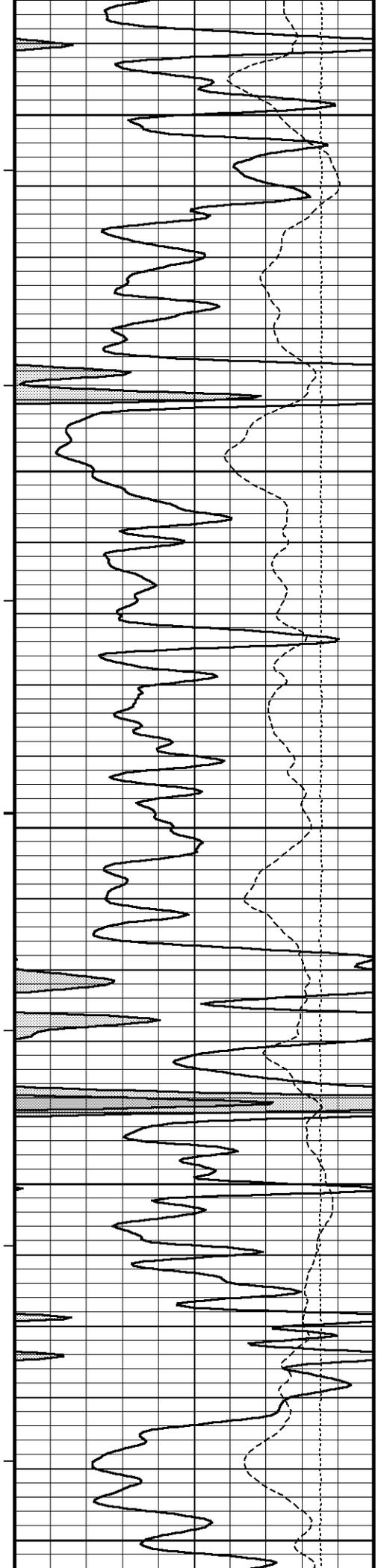
5450

← Gamma Ray  
DST Uphole Tension →

← Spontaneous Potential



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



121°

5500

122°

5550

122°

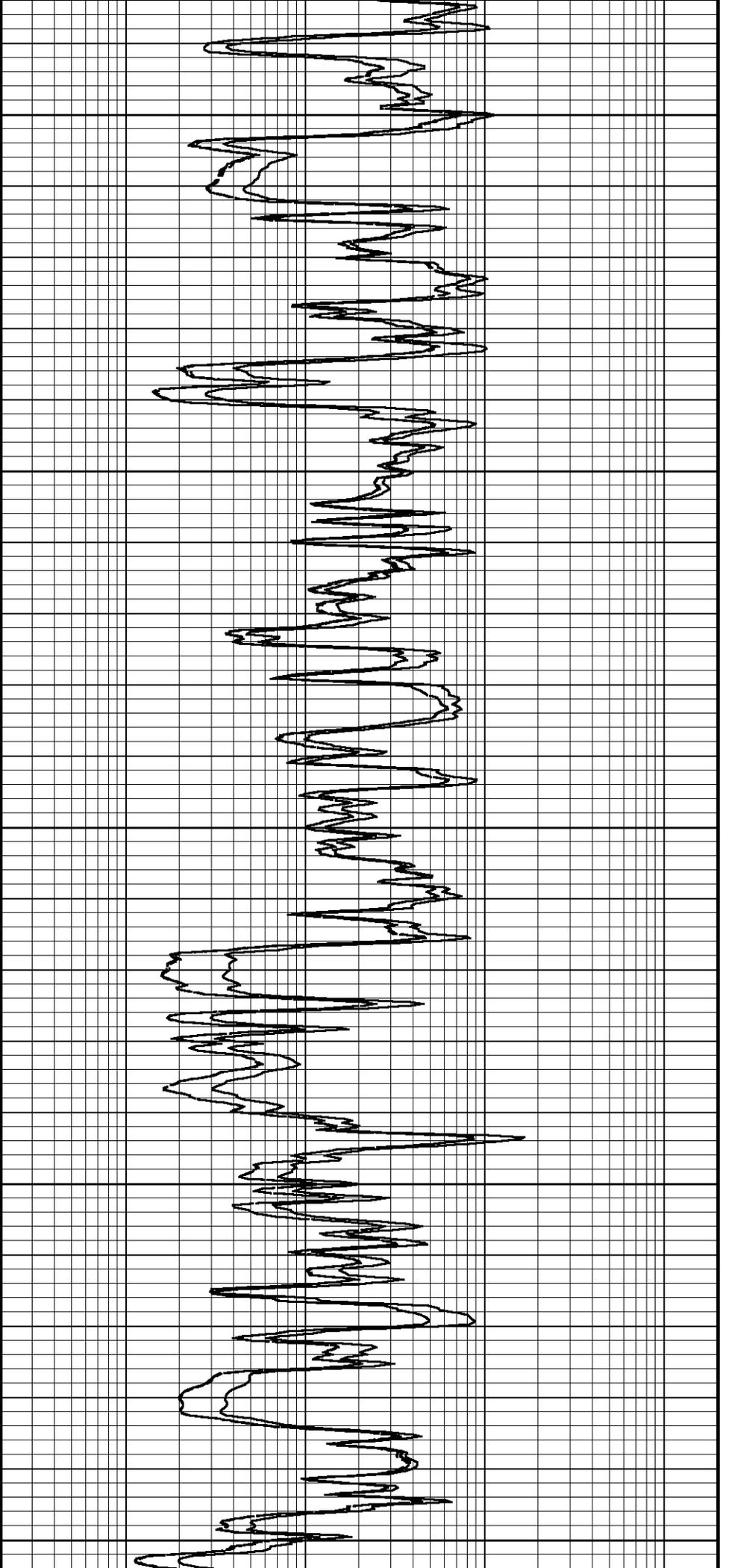
5600

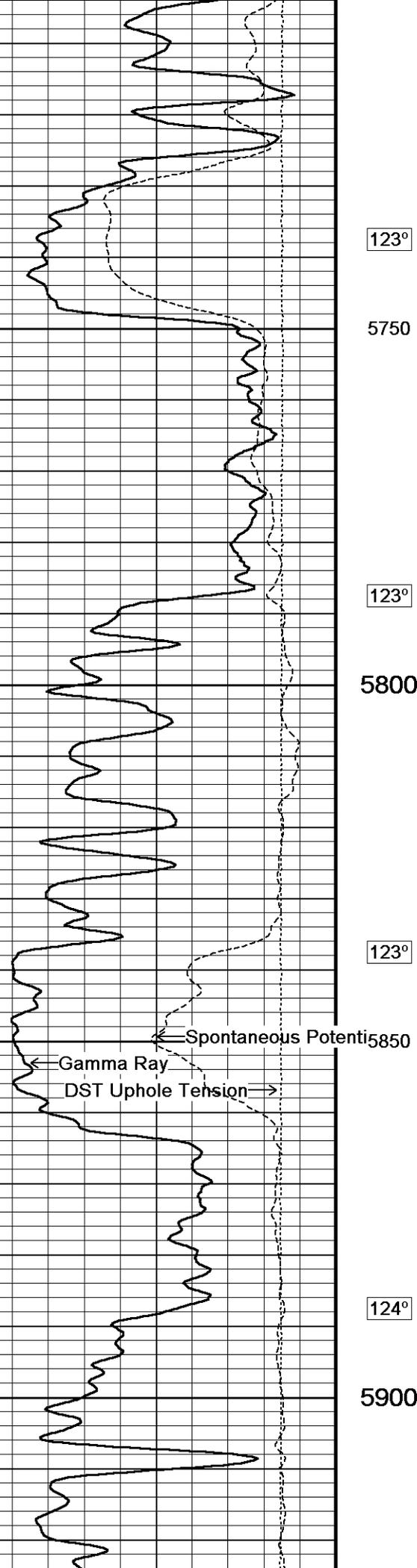
122°

5650

123°

5700





123°

5750

123°

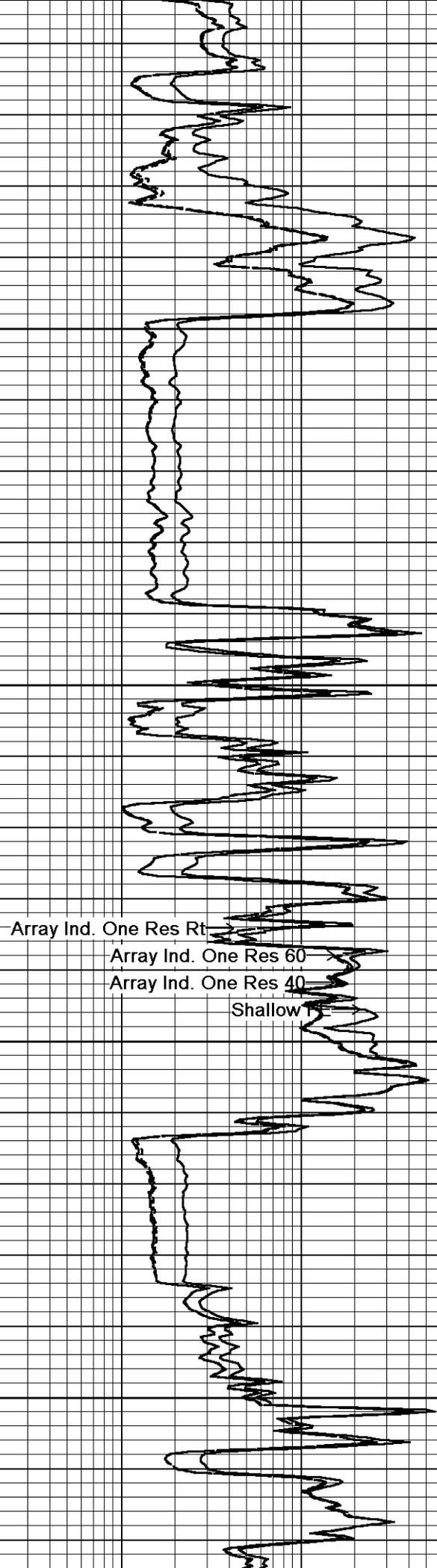
5800

123°

5850

124°

5900

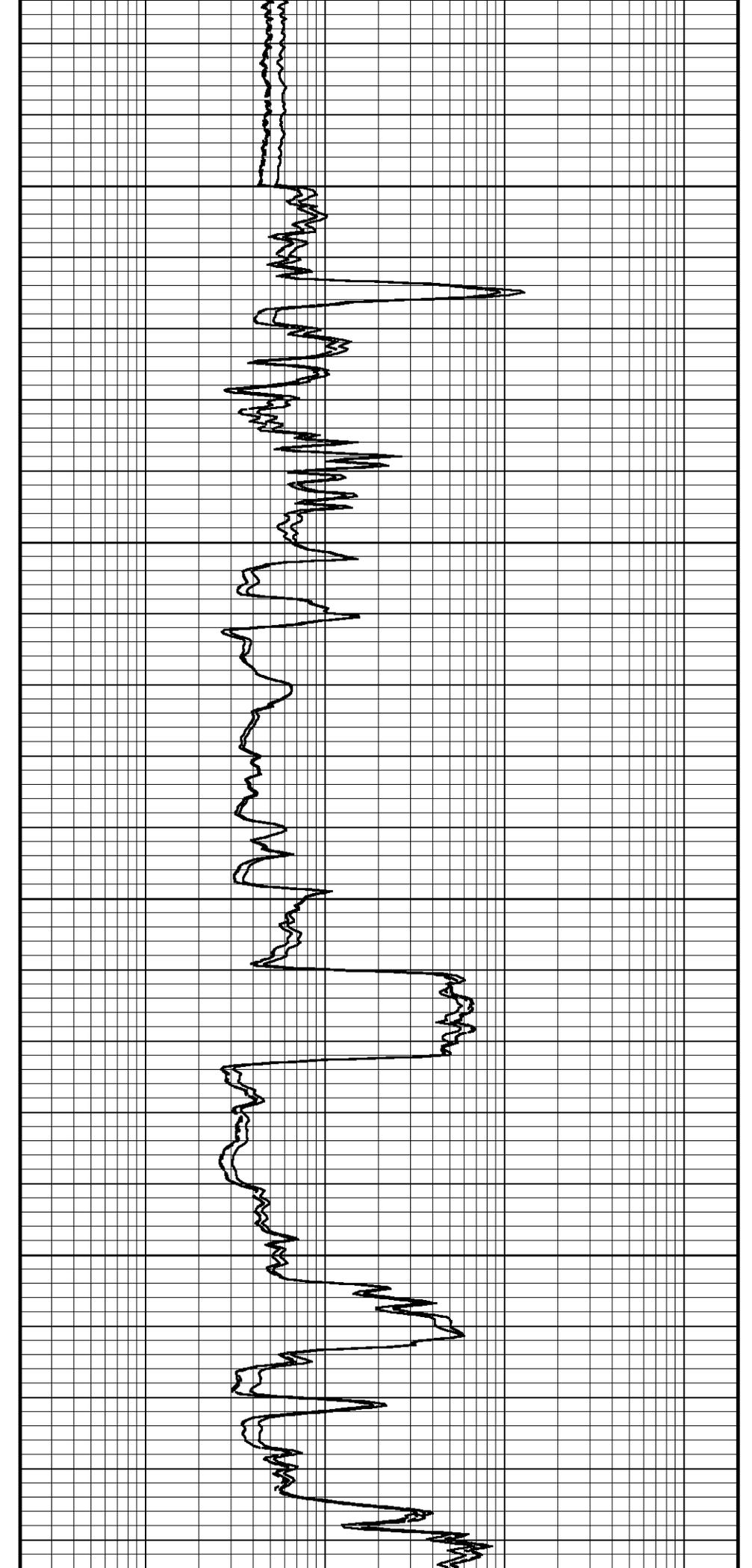
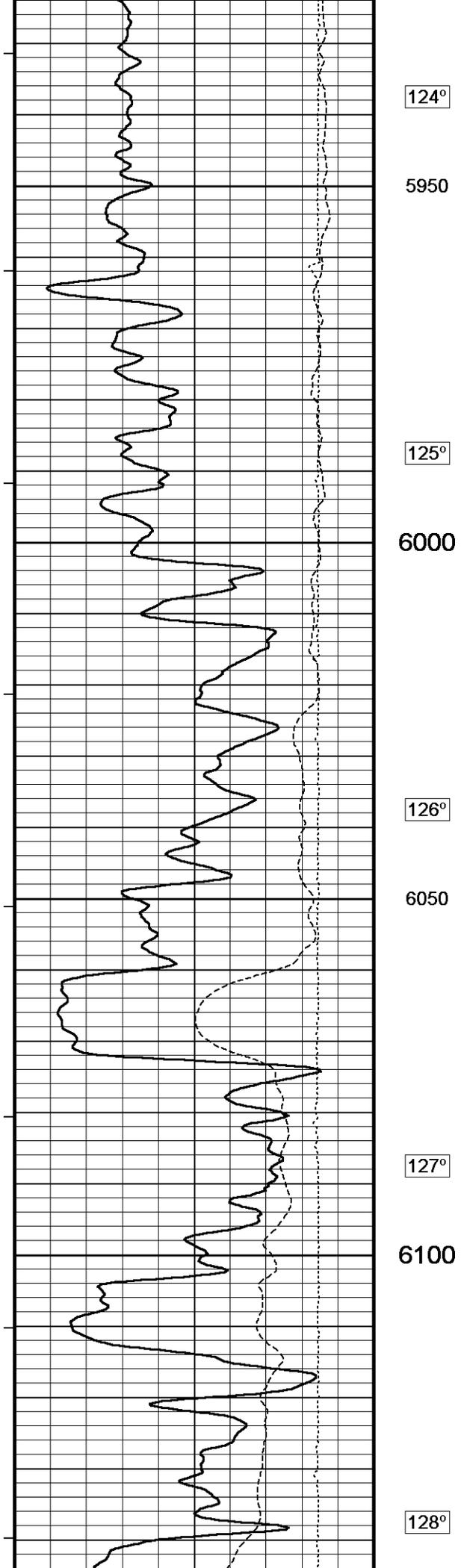


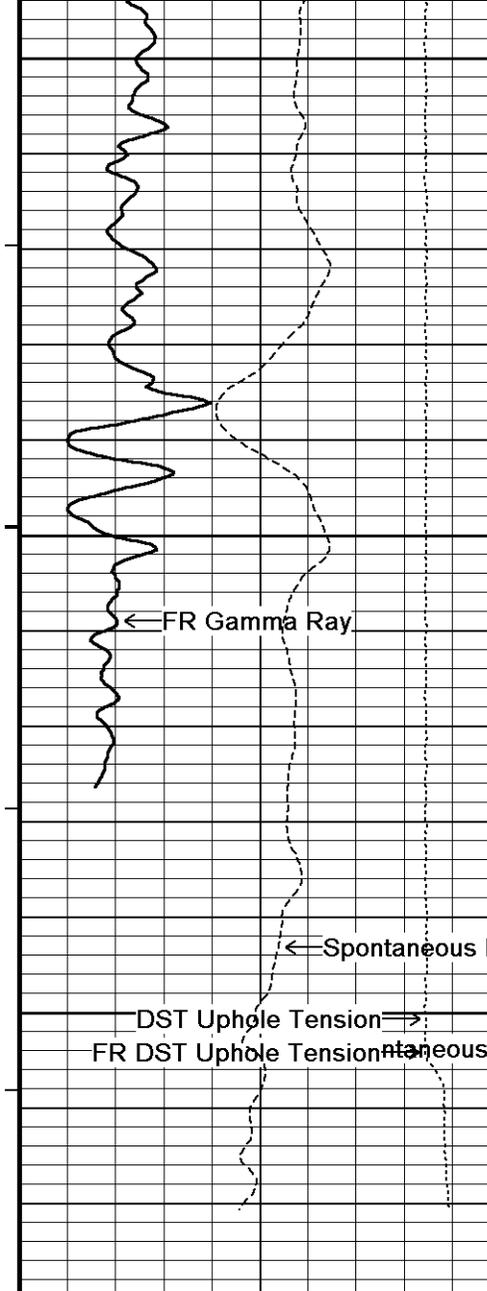
Array Ind. One Res Rt

Array Ind. One Res 60

Array Ind. One Res 40

Shallow





6150

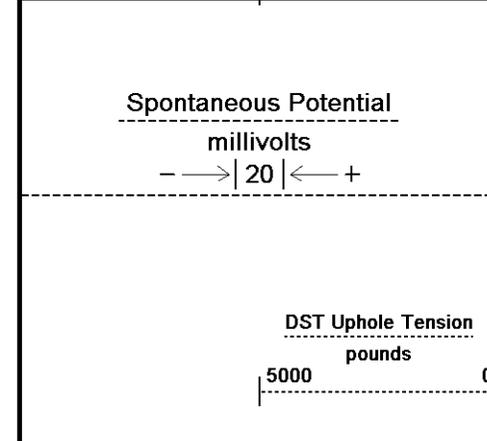
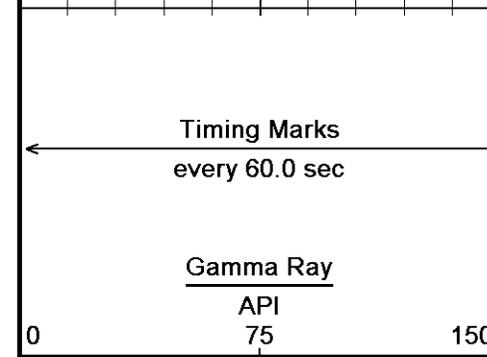
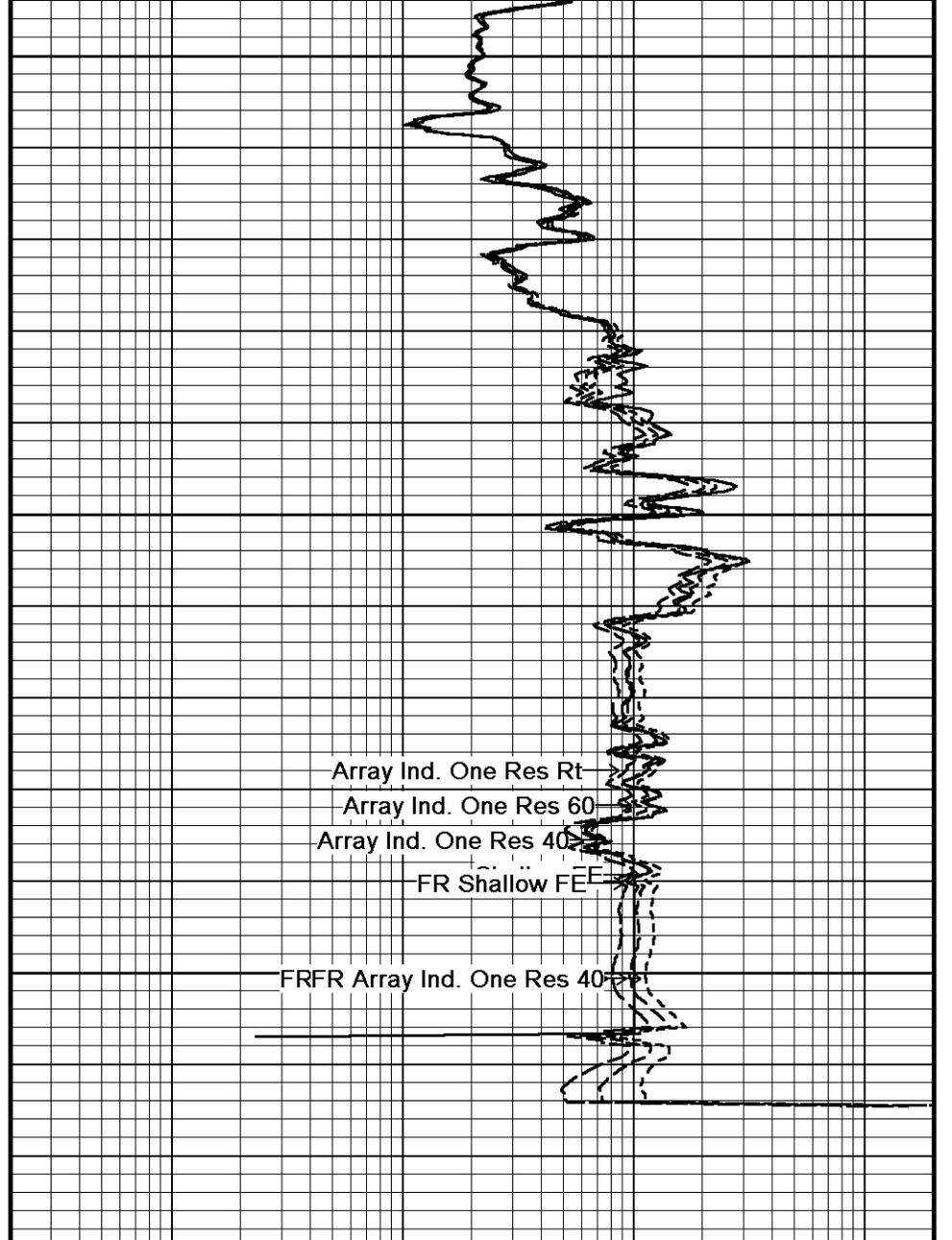
127°

6200

6250

6278

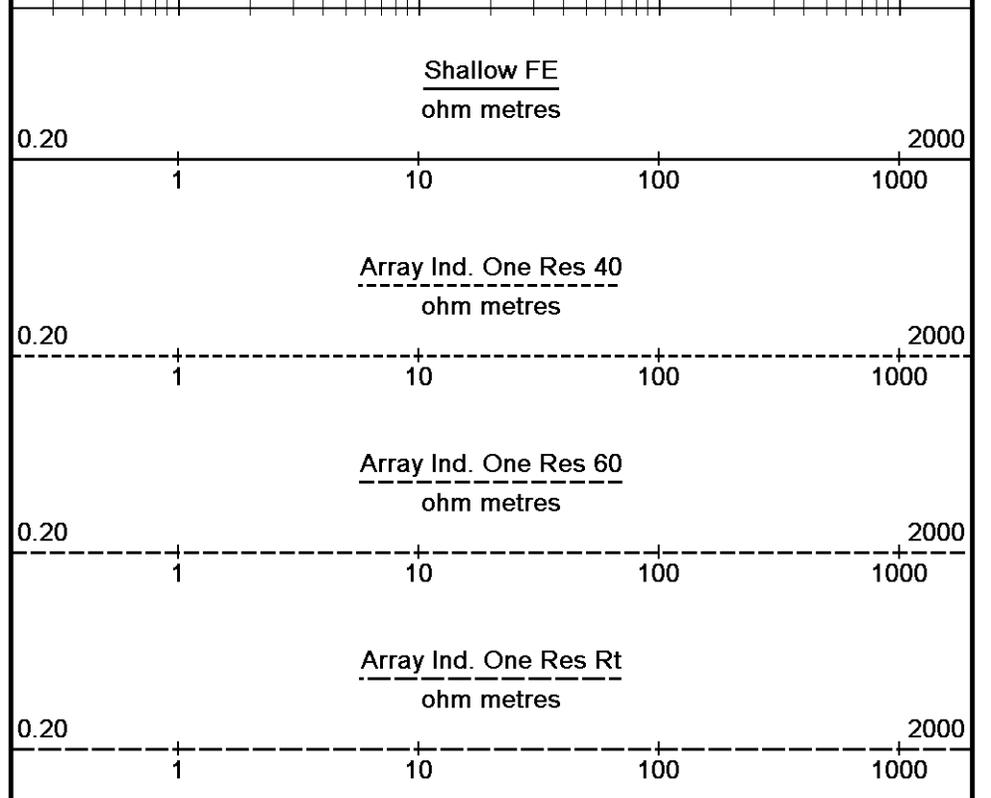
Depth in Feet



Depth in Feet

Borehole Temp in deg F

Replay Scale 1:240



5 INCH MAIN

10 INCH HIGH RESOLUTION

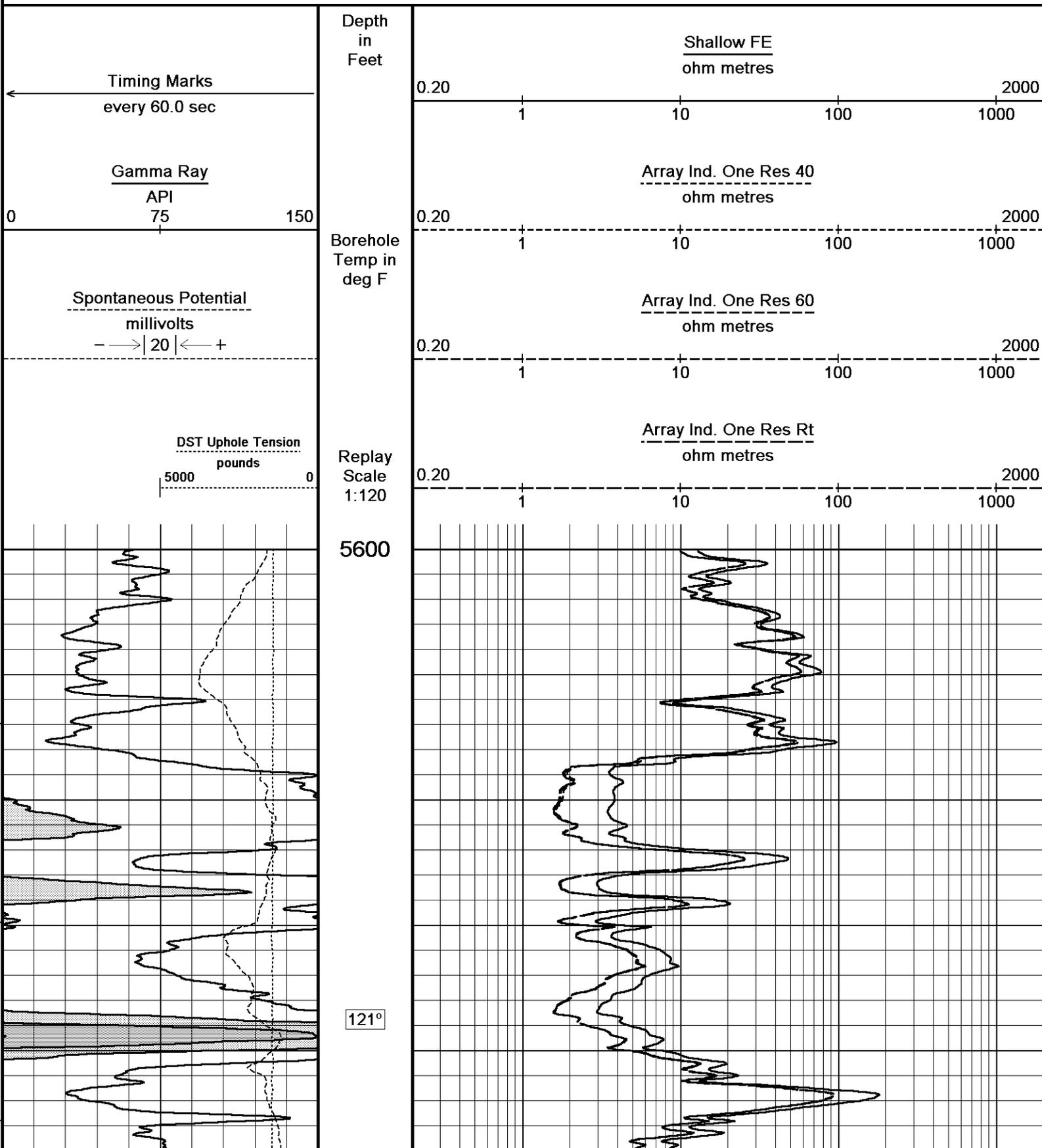
Depth Based Data - Maximum Sampling Increment 2.5cm

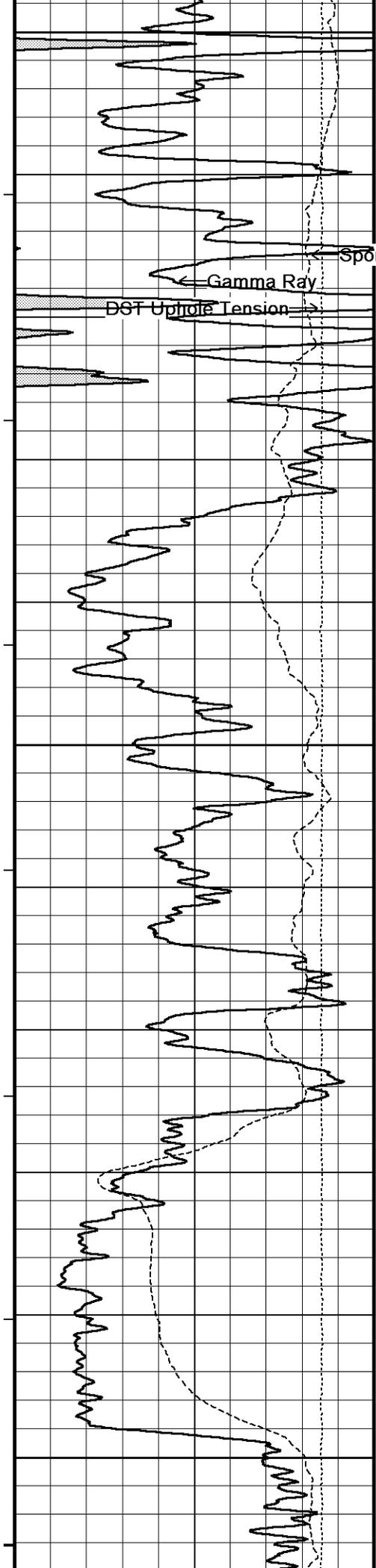
Plotted on 02-DEC-2011 13:29

Filename: C:\Users\Joe\AppData\Local\Temp\Weatherford...O'Brien Meade Lake Offset 2-13\_001.dta

Recorded on 04-OCT-2011 02:18

System Versions: Logged with 11.03.4044 Plotted with 12.01.3513





5650

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

Spontaneous Potential

Gamma Ray

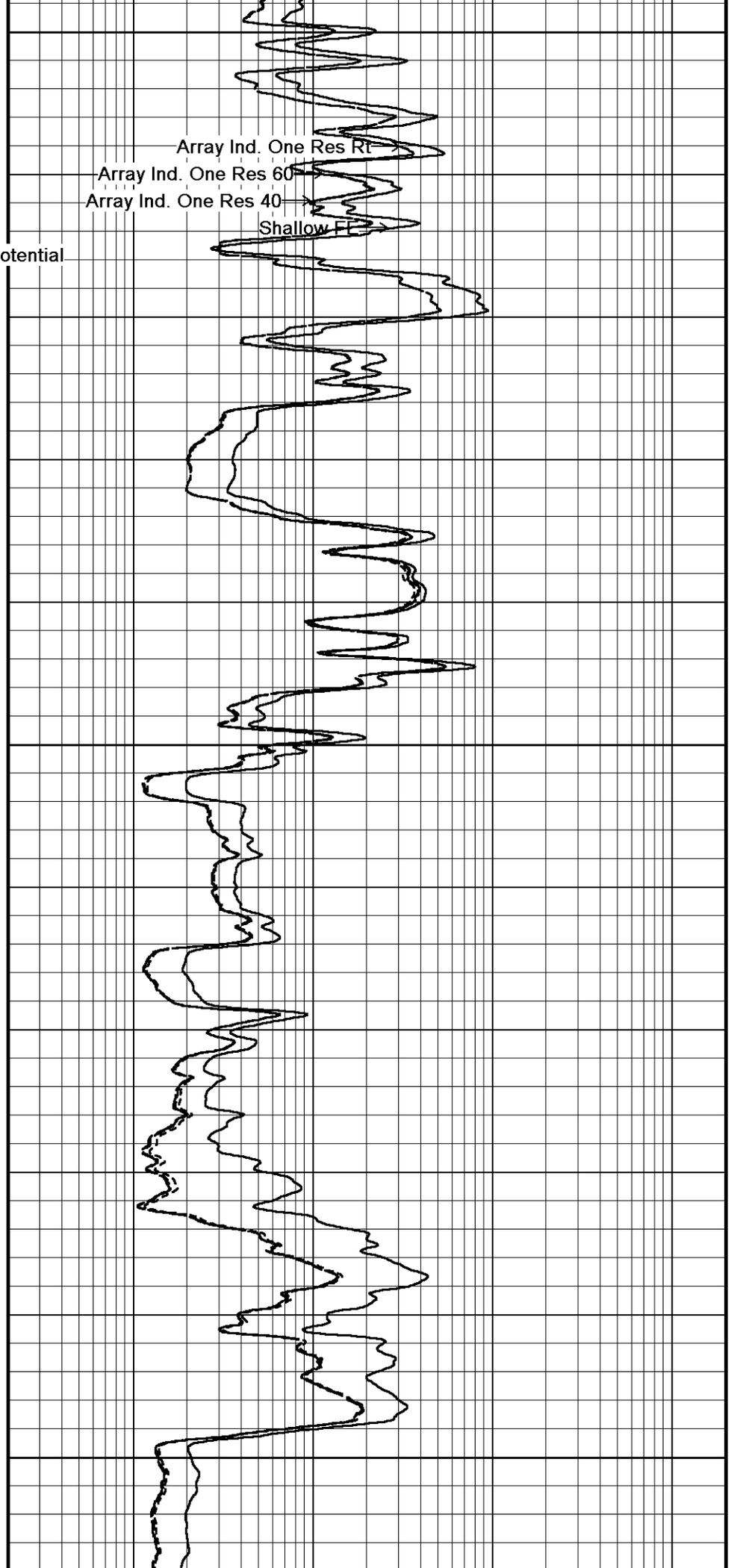
DST Upflow Tension

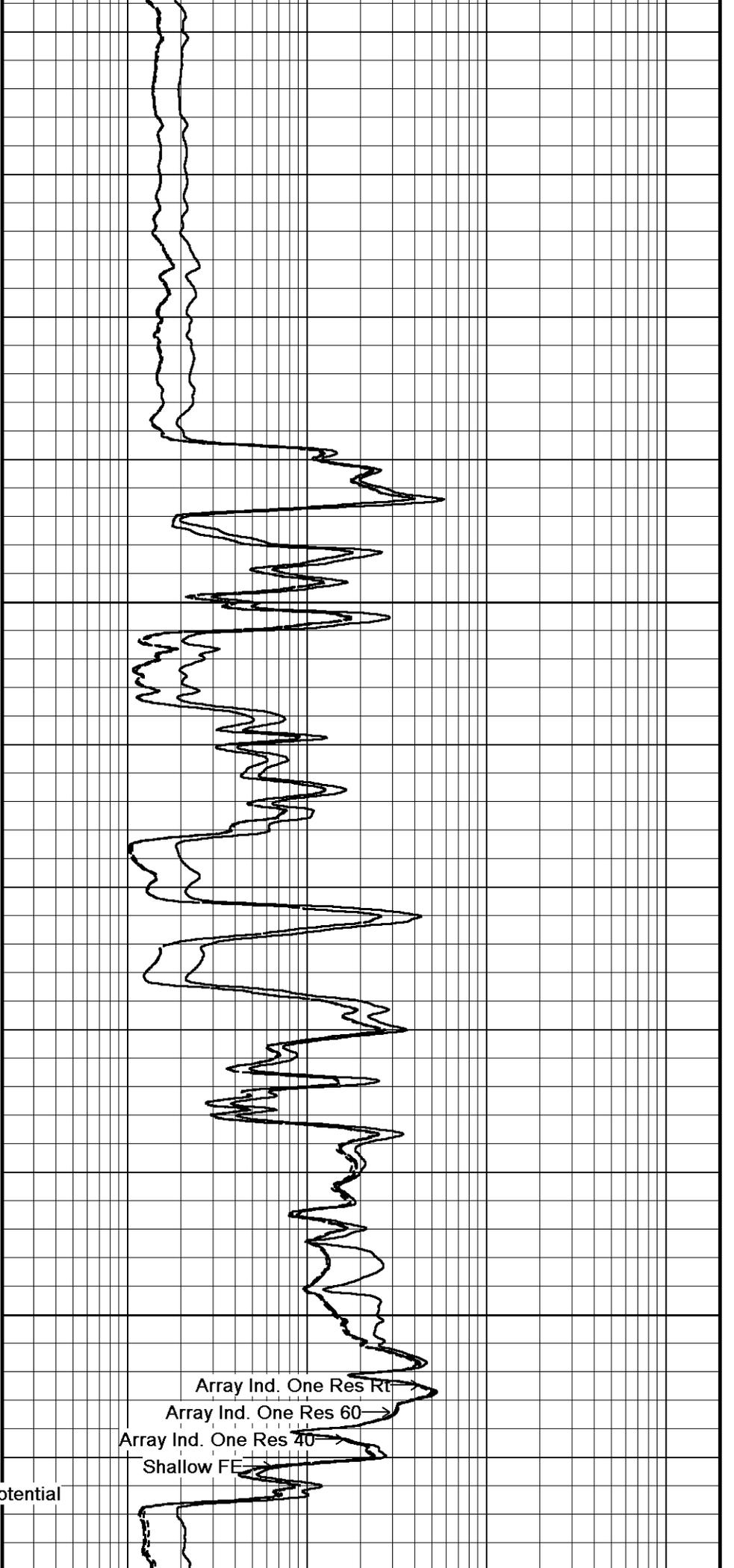
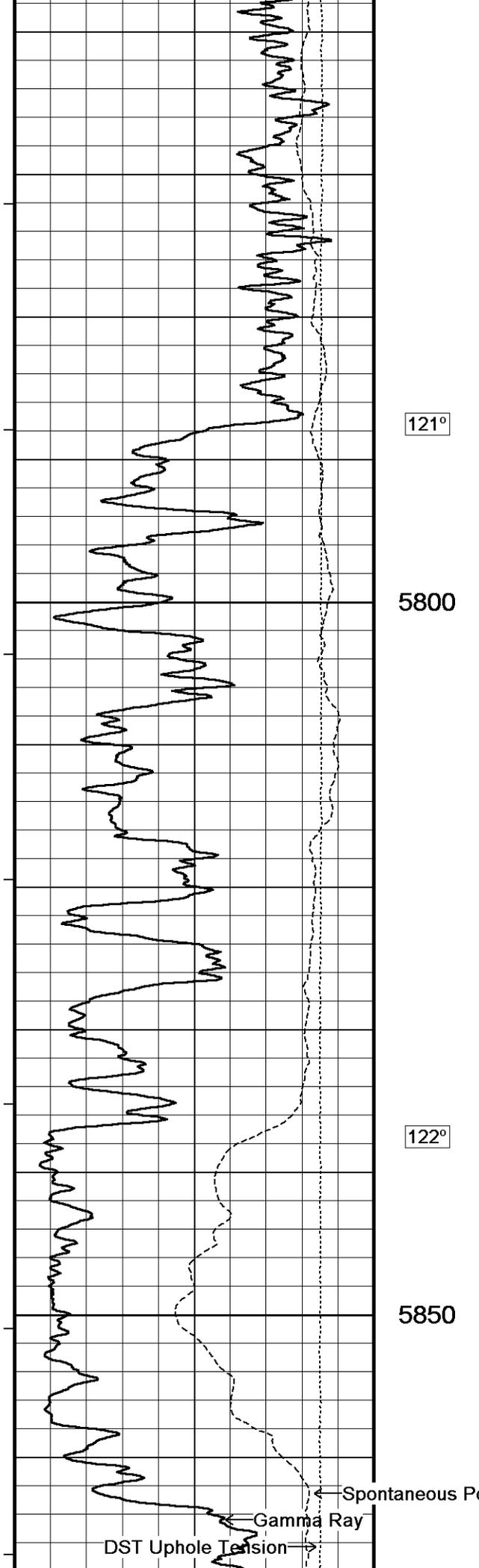
121°

5700

121°

5750





121°

5800

122°

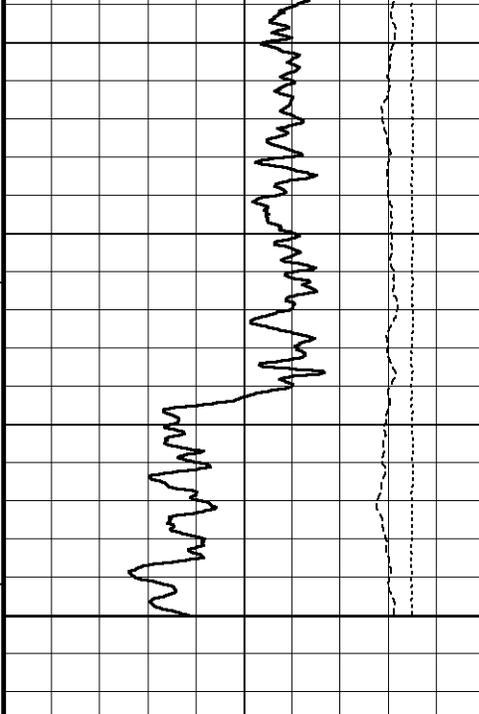
5850

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

Spontaneous Potential

Gamma Ray

DST Uphole Tension



122°

5900

5904

Depth in Feet

Timing Marks every 60.0 sec

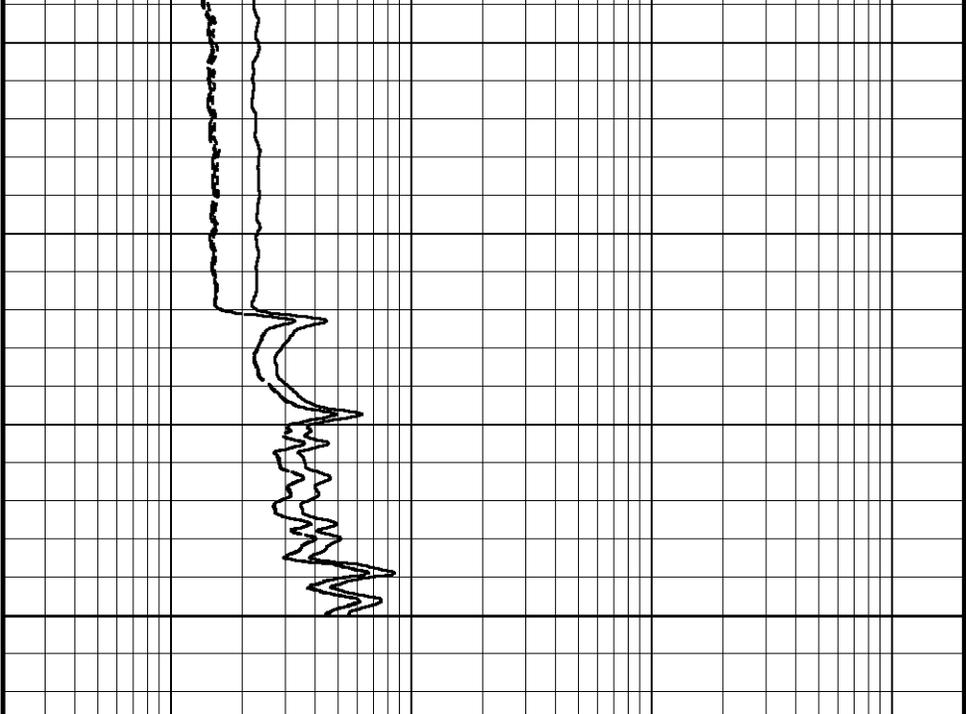
Gamma Ray  
API  
0 75 150

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

DST Uphole Tension  
pounds  
5000 0

Borehole Temp in deg F

Replay Scale  
1:120



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

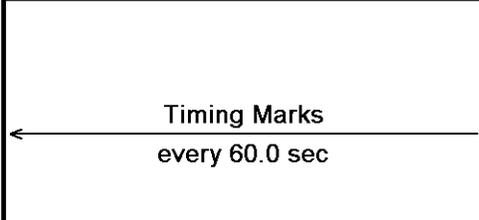
Array Ind. One Res Rt  
ohm metres  
0.20 1 10 100 1000 2000

Depth Based Data - Maximum Sampling Increment 2.5cm Plotted on 02-DEC-2011 13:29  
 Filename: C:\Users\Joe\AppData\Local\Temp\Weatherford ...O'Brien Meade Lake Offset 2-13\_001.dta Recorded on 04-OCT-2011 02:18  
 System Versions: Logged with 11.03.4044 Plotted with 12.01.3513

↑ 10 INCH HIGH RESOLUTION ↑

↓ REPEAT SECTION ↓

Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 02-DEC-2011 13:29  
 Filename: C:\Users\Joe\AppData\Local\Temp\Weatherford ...O'Brien Meade Lake Offset 2-13\_002.dta Recorded on 04-OCT-2011 02:18  
 System Versions: Logged with 11.03.4044 Processed with 11.03.4044 Plotted with 12.01.3513



Depth in Feet

Shallow FE  
ohm metres  
0.20 1 10 100 1000 2000

Gamma Ray

API  
75

0 150

Spontaneous Potential

millivolts

-->|20|<--+

DST Uphole Tension

pounds

5000 0

Borehole  
Temp in  
deg F

Replay  
Scale  
1:240

5950

123°

6000

123°

6050

125°

6100

Array Ind. One Res 40

ohm metres

0.20 2000

1 10 100 1000

Array Ind. One Res 60

ohm metres

0.20 2000

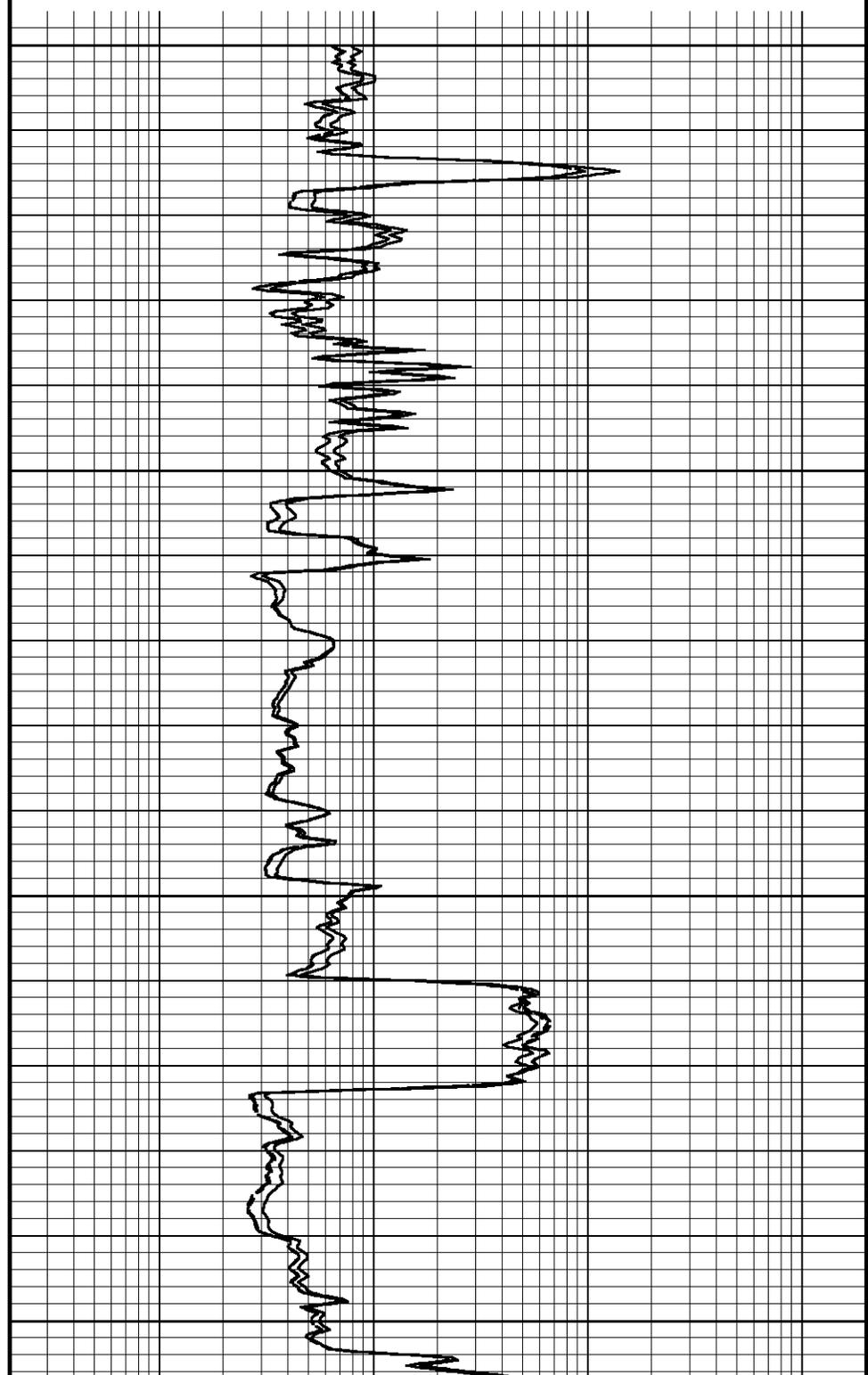
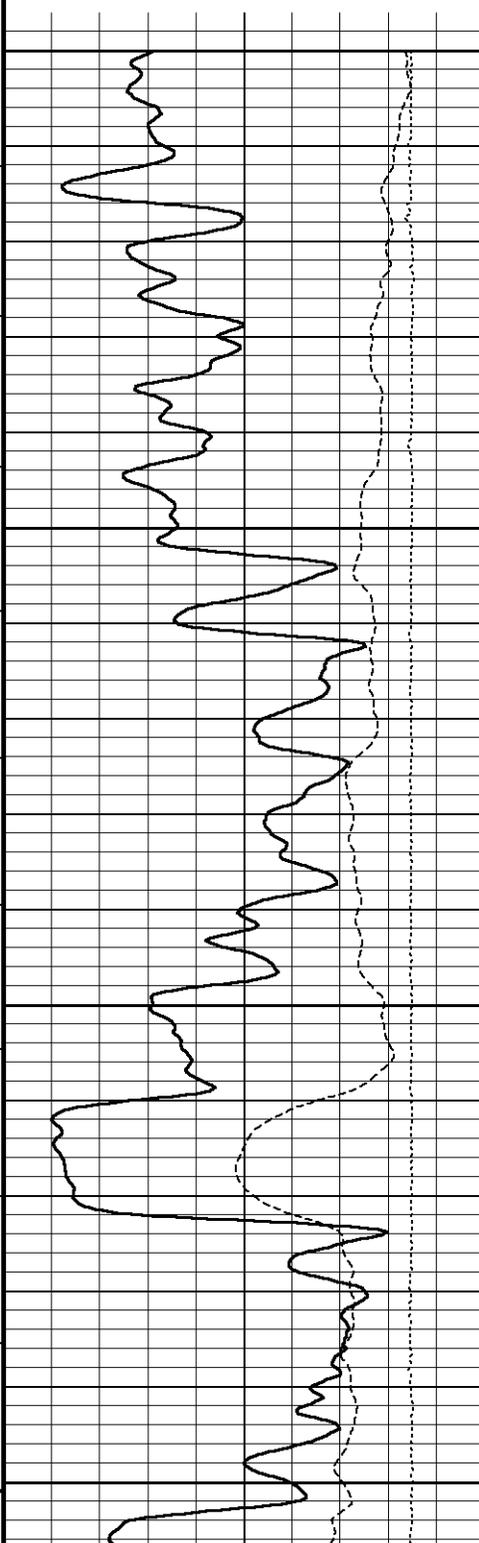
1 10 100 1000

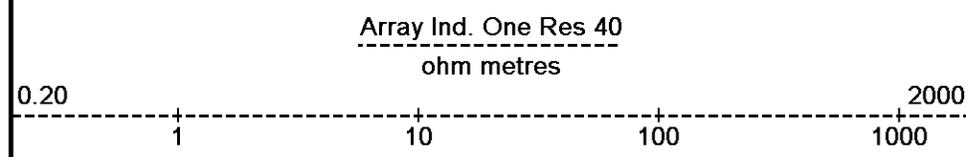
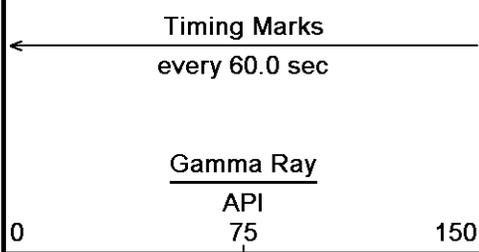
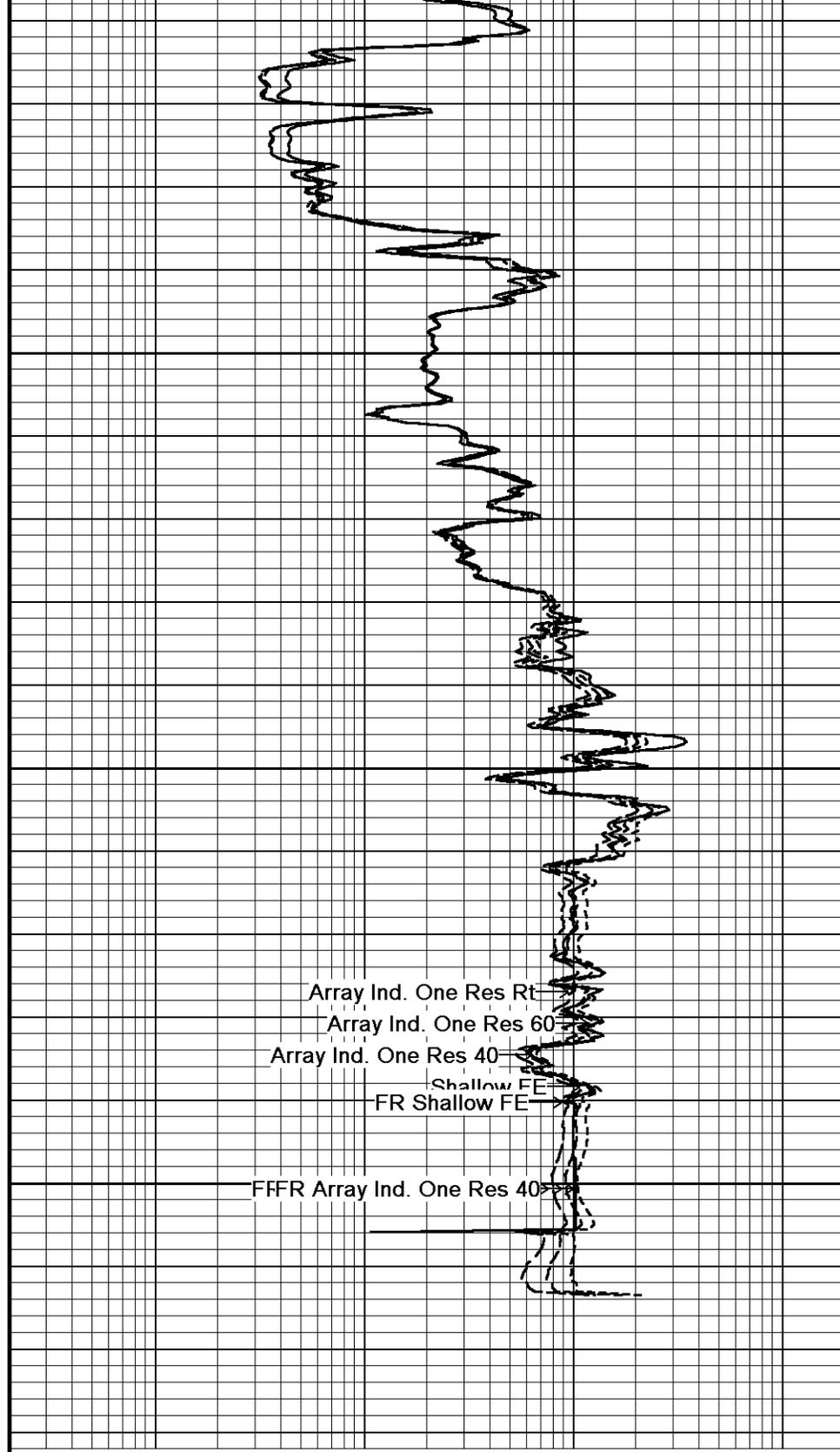
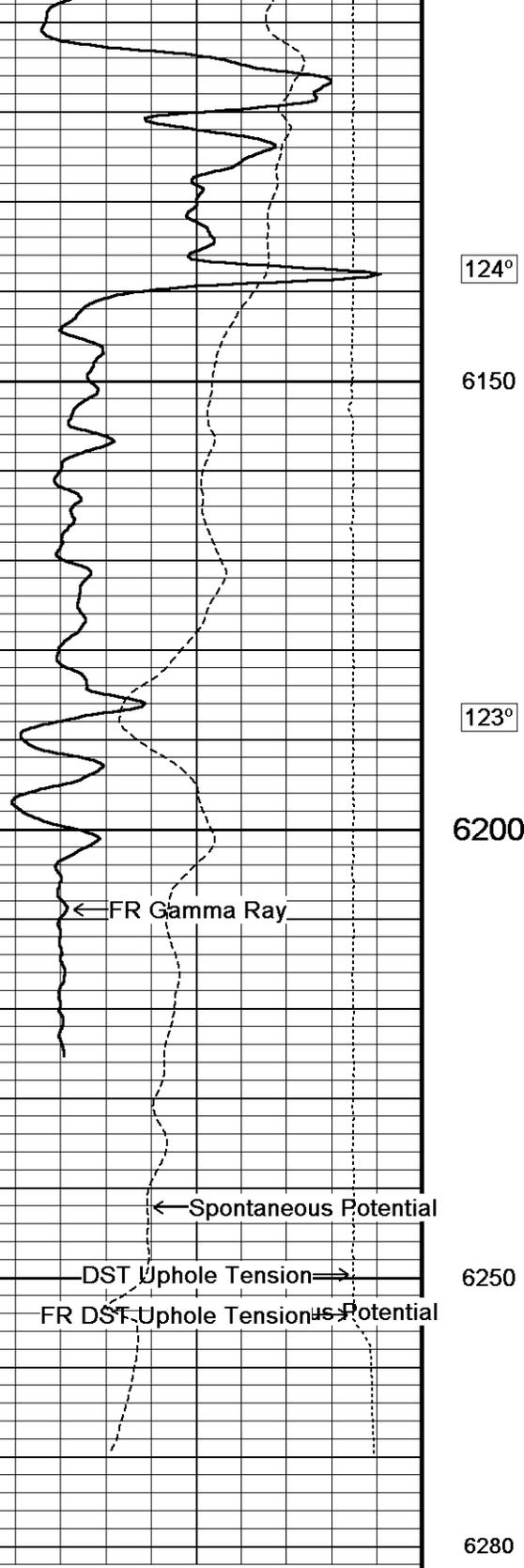
Array Ind. One Res Rt

ohm metres

0.20 2000

1 10 100 1000





Borehole Temp in deg F

Spontaneous Potential

millivolts

- -> | 20 | <- +

Array Ind. One Res 60

ohm metres

0.20

2000

1

10

100

1000

DST Uphole Tension

pounds

5000 0

Replay Scale 1:240

Array Ind. One Res Rt

ohm metres

0.20

2000

1

10

100

1000

Depth Based Data - Maximum Sampling Increment 10.0cm

Plotted on 02-DEC-2011 13:29

Filename: C:\Users\Joe\AppData\Local\Temp\Weatherford ...\O'Brien Meade Lake Offset 2-13\_002.dta

Recorded on 04-OCT-2011 02:18

System Versions: Logged with 11.03.4044 Processed with 11.03.4044 Plotted with 12.01.3513



REPEAT SECTION



### BEFORE SURVEY CALIBRATION

C:\Users\Joe\AppData\Local\Temp\Weatherford PreView\0\O'Brien Meade Lake Offset 2-13.dta

#### Down-hole Tension Calibration All 000

Field Calibration on 30-JUN-2010 01:00

Reading No	Measured	Calibrated (lbs)
1	14112.01	10.00
2	15164.79	427.00

#### General Constants All 000

Last Edited on 04-OCT-2011 01:11

##### General Parameters

Mud Resistivity	0.990	ohm-metres
Mud Resistivity Temperature	90.000	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	4.500	inches
Caliper for Differential Caliper	Density Caliper	

##### Rwa Parameters

Porosity used	Base Density Porosity
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 10-SEP-2011 05:32

Reading No	Measured	Calibrated (lbs)
1	-2243.52	0.00
2	-2203.03	480.60

#### High Resolution Temperature Calibration MCG-C 139

Field Calibration on 02-AUG-2011 18:13

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

#### High Resolution Temperature Constants MCG-C 139

Last Edited on

Pre-filter Length	11
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#### SP Calibration MCG-C 139

Field Calibration on 29-AUG-2011 10:25

	Measured	Calibrated (mV)
Reference 1	103.7	100.0
Reference 2	-96.7	-100.0

#### Gamma Calibration MCG-C 139

Field Calibration on 03-OCT-2011 14:43

	Measured	Calibrated (API)
Background	71	49
Calibrator (Gross)	1136	774
Calibrator (Net)	1065	725

## Gamma Constants MCG-C 139

Last Edited on 04-OCT-2011 01:11

Gamma Calibrator Number	grc38	
Mud Density	1.09	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

## Micro Normal and Micro Inverse Calibration MML-A 16

Base Calibration on 06-SEP-2011 15:54

Field Check on 03-OCT-2011 14:23

## Base Calibration

Channel	Measured		Calibrated (ohm-m)	
	Resistor 1	Resistor 2	Resistor 1	Resistor 2
Micro Normal	12.2	60.2	2.6	12.8
Micro Inverse	15.6	78.3	1.7	8.4

Channel	Base Check (ohm-m)	Field Check (ohm-m)
Micro Normal	32.1	32.1
Micro Inverse	16.3	16.3

## Micro Normal and Micro Inverse Constants MML-A 16

Last Edited on 03-OCT-2011 14:22

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

## Caliper Calibration MML-A 16

Base Calibration on 06-SEP-2011 15:42

Field Calibration on 03-OCT-2011 14:31

## Base Calibration

Reading No	Measured	Calibrator Size (in)
1	14123	5.98
2	17493	7.97
3	20788	9.86
4	24810	11.92
5	0	0.00
6	N/A	N/A

## Field Calibration

Measured Caliper (in)	Actual Caliper (in)
5.99	5.98

## Neutron Calibration MDN-A.B 66

Base Calibration on 13-SEP-2011 12:51

Field Check on 03-OCT-2011 14:49

## Base Calibration

Ratio	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	3143	99	3714	110
	31.704		33.764	

## Field Calibrator at Base

Ratio	Calibrated (cps)
	1637 2327
	0.703

## Field Check

Ratio	Calibrated (cps)
	1624 2323
	0.699

## Neutron Constants MDN-A.B 66

Last Edited on 04-OCT-2011 01:12

Neutron Source Id	P58125B
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

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
Barite Mud Correction	Not Applied	

**FE Calibration MFE-A.A 52**

Base Calibration on 06-SEP-2011 15:24  
Field Check on 03-OCT-2011 14:22

Base Calibration		
	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	965.4	126.8
Base Check		279.9
Field Check		279.8

**FE Constants MFE-A.A 52**

Last Edited on 04-OCT-2011 01:12

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

**High Resolution Temperature Calibration MAI-A.A 167**

Field Calibration on 02-AUG-2011 18:25

	Measured	Calibrated(Deg F)
Lower	1.00	33.80
Upper	11.00	51.80

**High Resolution Temperature Constants MAI-A.A 167**

Last Edited on

Pre-filter Length	11
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**Induction Calibration MAI-A.A 167**

Base Calibration on 11-MAR-2011 09:58  
Field Check on 03-OCT-2011 14:21

Base Calibration					
Test Loop Calibration		Measured		Calibrated (mmho/m)	
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	13.5	3837.9	
2	0.0	0.0	29.6	3475.0	
3	0.0	0.0	29.1	3051.1	
4	0.0	0.0	19.7	2080.2	
Deep	0.0	0.0	18.5	2047.5	
Medium	0.0	0.0	42.2	3988.7	
Shallow	0.0	0.0	43.1	5051.7	
Array Temperature	0.0		81.6		Deg F

**Induction Constants MAI-A.A 167**

Last Edited on 04-OCT-2011 01:13

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

Stand-off	0.00	metres
Number of Fins on Stand-off	8.0000	
Stand-off Fin Angle	45.00	degrees
Stand-off Fin Width	0.5000	inches
Borehole Corr. Rm Source	Temperature Corr	
Temp. for Rm Corr.	MCG External Temperature	
Squasher Start	0.0020	mhos/metre
Squasher Offset	N/A	mhos/metre

Borehole Normalisation			
DRM1	0.0000	DRC1	0.0000
DRM2	0.0000	DRC2	0.0000
MRM1	0.0000	MRC1	0.0000
MRM2	0.0000	MRC2	0.0000
SRM1	0.0000	SRC1	0.0000
SRM2	0.0000	SRC2	0.0000

Calibration Site Corrections			
Channel 1	0.00	mmhos/metre	
Channel 2	0.00	mmhos/metre	
Channel 3	0.00	mmhos/metre	
Channel 4	0.00	mmhos/metre	

Apparent Porosity and Water Saturation Constants			
Archie Constant (A)	1.00		
Cementation Exponent (M)	2.00		
Saturation Exponent (N)	2.00		
Saturation of Water for Apor	100.00	percent	
Resistivity of Water for Apor and Sw	0.05	ohm-m	
Resistivity of Mud Filtrate for Sw	0.00	ohm-m	
Source for Rt	0.00		
Source for Rxo	0.00		

Caliper Calibration MPD-B 35 Base Calibration on 06-SEP-2011 17:16  
Field Calibration on 03-OCT-2011 14:25

Base Calibration			
Reading No	Measured	Calibrator Size (in)	
1	19648	3.99	
2	29970	5.98	
3	40402	7.97	
4	49920	9.86	
5	60645	11.92	
6	N/A	N/A	
Field Calibration			
	Measured Caliper (in)	Actual Caliper (in)	
	5.86	5.98	

Photo Density Calibration MPD-B 35 Base Calibration on 06-SEP-2011 17:37  
Field Check on 03-OCT-2011 14:30

Density Calibration					
Base Calibration		Measured		Calibrated (sdu)	
	Near	Far	Near	Far	
Reference 1	56515	26877	59556	30836	
Reference 2	23047	2560	24941	2541	
Field Check at Base					
	1159.0	1382.3			
Field Check					
	1159.9	1377.1			

PE Calibration					
Base Calibration		Measured		Calibrated	
	WS	WH	Ratio	Ratio	
Background	208	1024			
Reference 1	21161	56315	0.379	0.371	
Reference 2	6144	22898	0.271	0.272	
Field Check at Base					
	208.4	1023.8			

Density Constants MPD-B 35

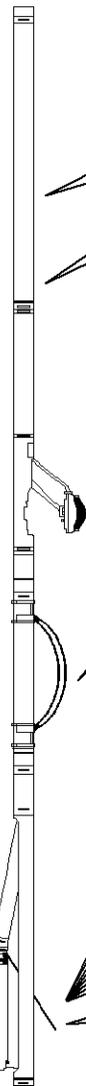
Last Edited on 04-OCT-2011 01:12

Density Source Id	p50557b	
Nylon Calibrator Number	dnce695	
Aluminium Calibrator Number	dacd698	
Density Shoe Profile	8 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.09	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	
<b>Matrix Density (gm/cc)</b>	<b>Depth (ft)</b>	
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	0.00	

DOWNHOLE EQUIPMENT

C:\Users\Joe\AppData\Local\Temp\Weatherford PreView\0\O'Brien Meade Lake Offset 2-13.dta

- Compact Comms Gamma  
MCG-C 139 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in
- Compact Comms Gamma  
MCG-C 139 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in
- Compact Micro-log  
MML-A 16 LG: 7.97 ft WT: 81.6 lb OD: 2.24 in
- Compact Micro-log  
MML-A 16 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 Neutron  
MDN-A.B 66 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 Density/Caliper  
MPD-B 35 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in
- SKJ-D.A Compact Knuckle Joint  
SKJ-D.A 36 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in
- SKJ-D.A Compact Knuckle Joint  
SKJ-D.A 36 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in
- Compact Focussed Electric  
MFE-A.A 52 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in



- 45.04 ft GRGC - Gamma Ray
- 45.04 ft GRGC - Gamma Ray
- 42.13 ft CGXT - MCG External Temperature
- 42.13 ft CGXT - MCG External Temperature
- 35.41 ft MINV - Micro-inverse
- 35.41 ft MNRL - Micro-normal
- 36.40 ft MLTC - MML Caliper
- 35.41 ft MINV - Micro-inverse
- 35.41 ft MNRL - Micro-normal
- 36.40 ft MLTC - MML Caliper
- 30.61 ft NPRL - Limestone Neutron Por.
- 30.61 ft NPRL - Limestone Neutron Por.
- 23.37 ft CLDC - Density Caliper
- 23.37 ft CLDC - Density Caliper
- 21.44 ft DPRL - Limestone Density Por.
- 21.44 ft DEN - Compensated Density
- 21.44 ft DCOR - Density Correction
- 21.44 ft DCOR - Density Correction
- 21.44 ft DPRL - Limestone Density Por.
- 21.44 ft DEN - Compensated Density
- 21.38 ft PDPE - PE
- 21.38 ft PDPE - PE

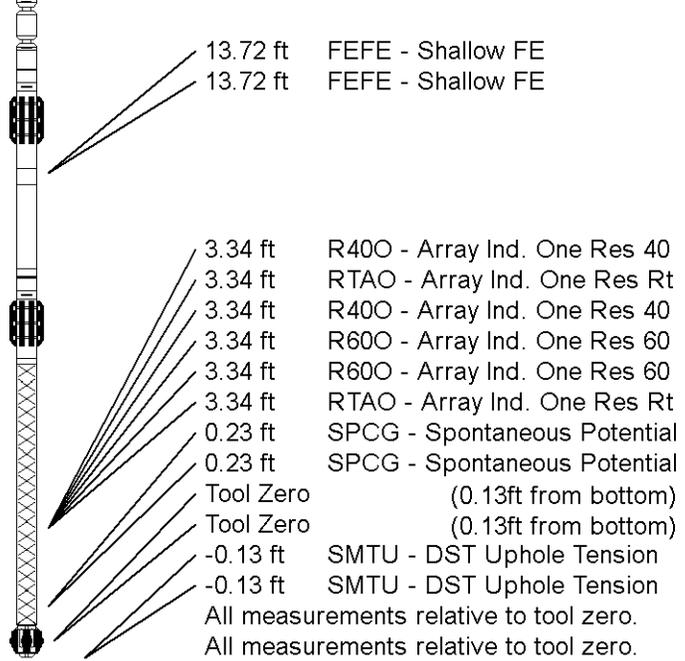
Compact Focussed Electric  
MFE-A.A 52 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

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

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

Total Length: 50.32 ft Weight: 407.9 lb

Total Length: 50.32 ft Weight: 407.9 lb



<b>COMPANY</b>	O'BRIEN ENERGY RESOURCES CORP.		
<b>WELL</b>	MEADE LAKE OFFSET #2-13		
<b>FIELD</b>	WILDCAT		
<b>PROVINCE/COUNTY</b>	MEADE		
<b>COUNTRY/STATE</b>	U.S.A. / KANSAS		

Elevation Kelly Bushing	2516.00	feet	First Reading	6251.00	feet
Elevation Drill Floor	2514.00	feet	Depth Driller	6250.00	feet
Elevation Ground Level	2505.00	feet	Depth Logger	6254.00	feet

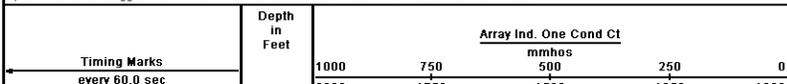


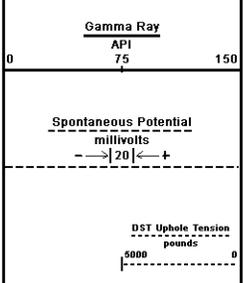
**ARRAY INDUCTION  
SHALLOW FOCUSED  
ELECTRIC LOG**



<b>Weatherford</b>		<b>ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG</b>	
COMPANY: O'BRIEN ENERGY RESOURCES CORP. WELL: MEADE LAKE OFFSET #2-13 FIELD: WILDCAT PROVINCE/COUNTY: MEADE COUNTRY/STATE: U.S.A. / KANSAS LOCATION: 430' FNL & 350' FWL SE NW NW NW			
SEC 13	TYPE 335	RGE 20W	Other Services: MFC/DMM/IN
Permit Number: 15-119-21298			MML
Permanent Datum O.L. Elevation 2505 feet			Equipments: HG 2516.00, PF 2514.00, OL 2505.00
Log Measured From KB			
Drilling Measured From KB			
Date: 04-OCT-2011	Run Number: ONE		
Depth Driller: 6250.00	feet		
Depth Logger: 6254.00	feet		
First Reading: 6251.00	feet		
Last Reading: 1462.00	feet		
Casing Driller: 1462.00	feet		
Casing Logger: 1462.00	feet		
BIT Size: 7.375	inches		
Flow Fluid Type: CHEMICAL		47.00	CP
Density/Viscosity: 9.10	lb/Oil	8.00	m/30min
PH/Fluid Loss: 10.00			
Sample Source: FLOWLINE			
From @ Measured Temp: 0.99 @ 30.0	ohm-m		
From @ Measured Temp: 0.79 @ 30.0	ohm-m		
From @ Measured Temp: 1.19 @ 30.0	ohm-m		
Source Fmt/Rmc: CALC			
From @ BHT: 0.70 @ 27.0	ohm-m		
Time Since Circulation: 4HOURS			
Max Recorded Temp: 127.00	deg F		
Equipment Name: COMPACT			
Equipment Base: 13025	LB		
Recorded By: L.SCOTT			
Witnessed By: PETER DEBENHAM			
SO# 700#	3531195		
			ROGER PEARSON LEH7254

1 INCH MAIN  
Depth Based Data - Maximum Sampling Increment 10.0cm  
Plotted on 02-DEC-2011 13:29  
Filename: C:\Users\Joe\AppData\Local\Temp\Weatherford PreVi...0'Brien Meade Lake Offset 2-13\_003.dta  
Recorded on 04-OCT-2011 03:19  
System Versions: Logged with 11.03.4044 Processed with 11.03.4044 Plotted with 12.01.3513

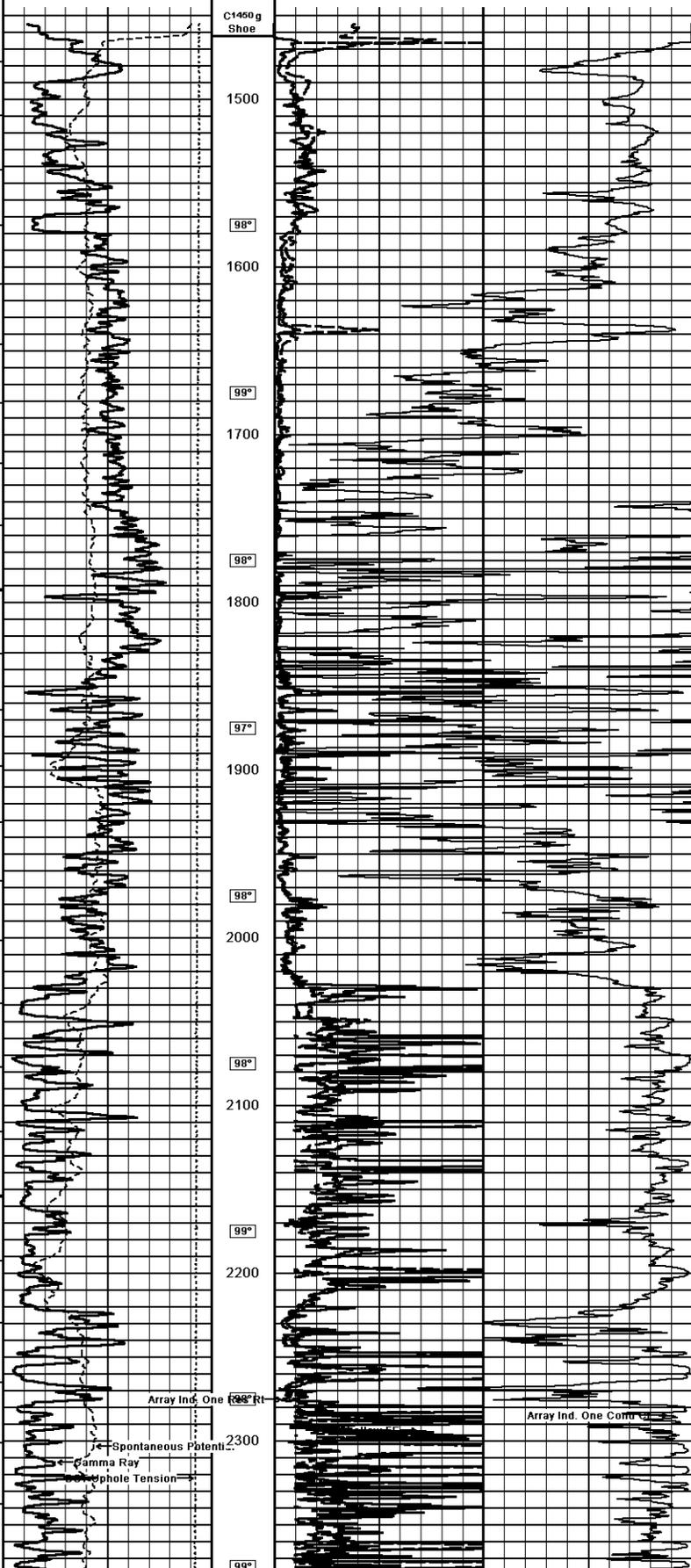
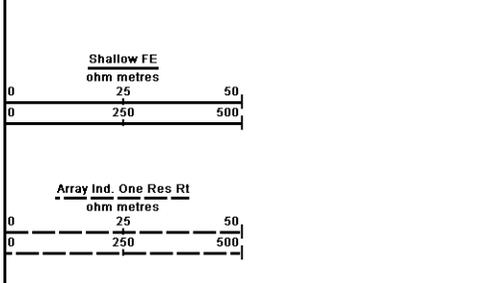




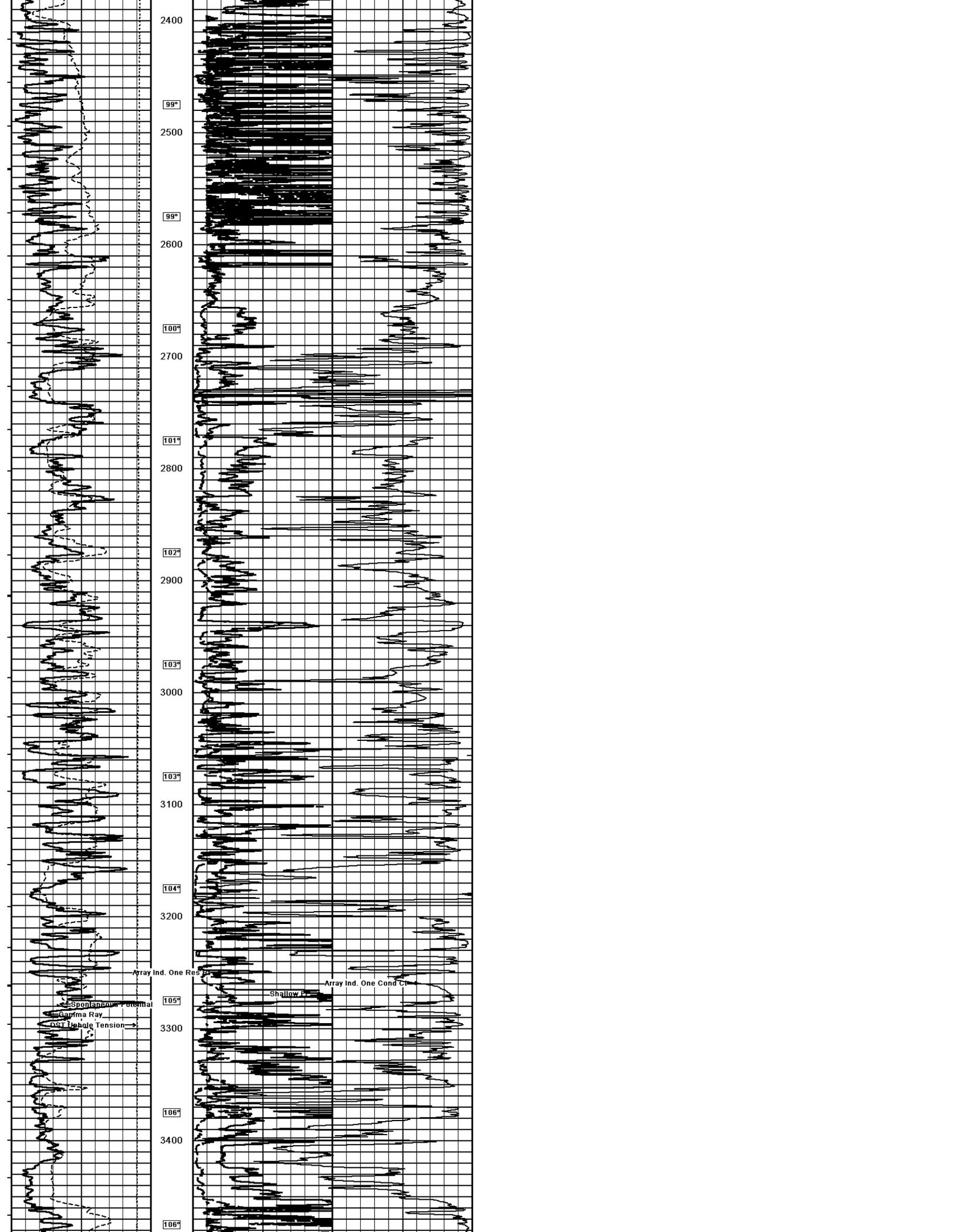
Borehole  
Temp in  
deg F

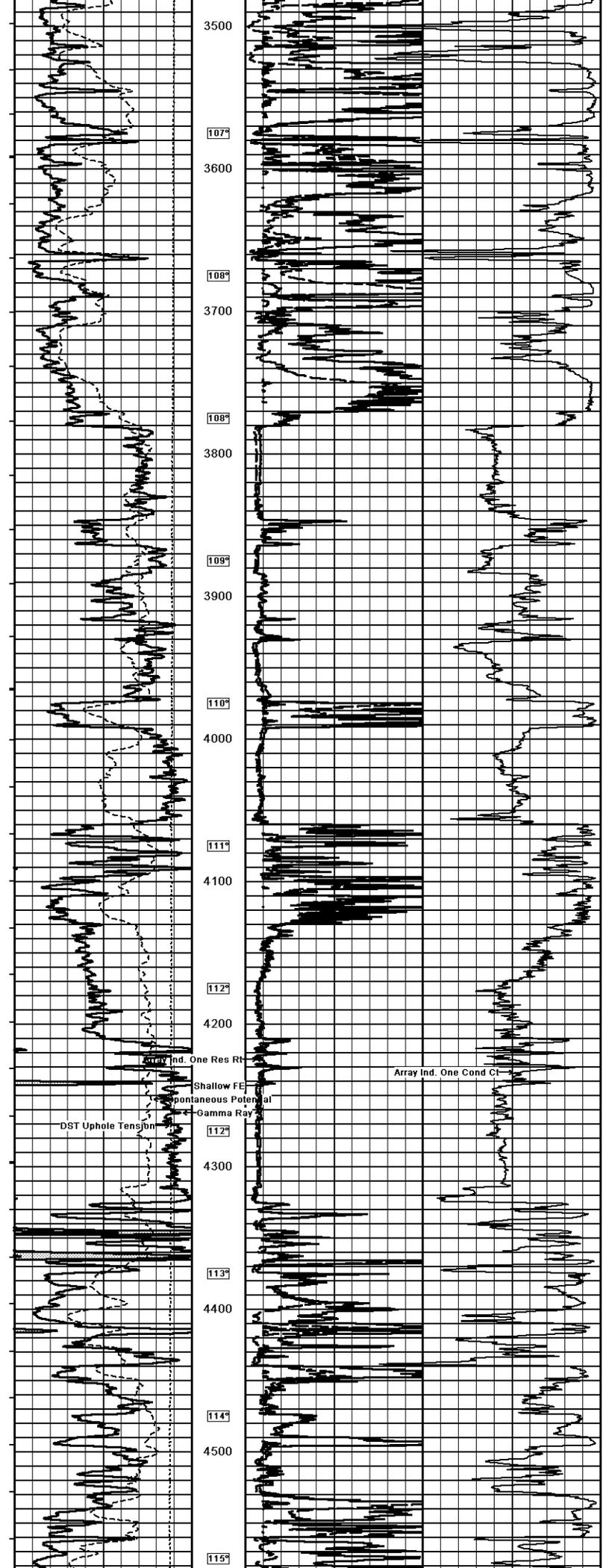
Replay  
Scale  
1:600

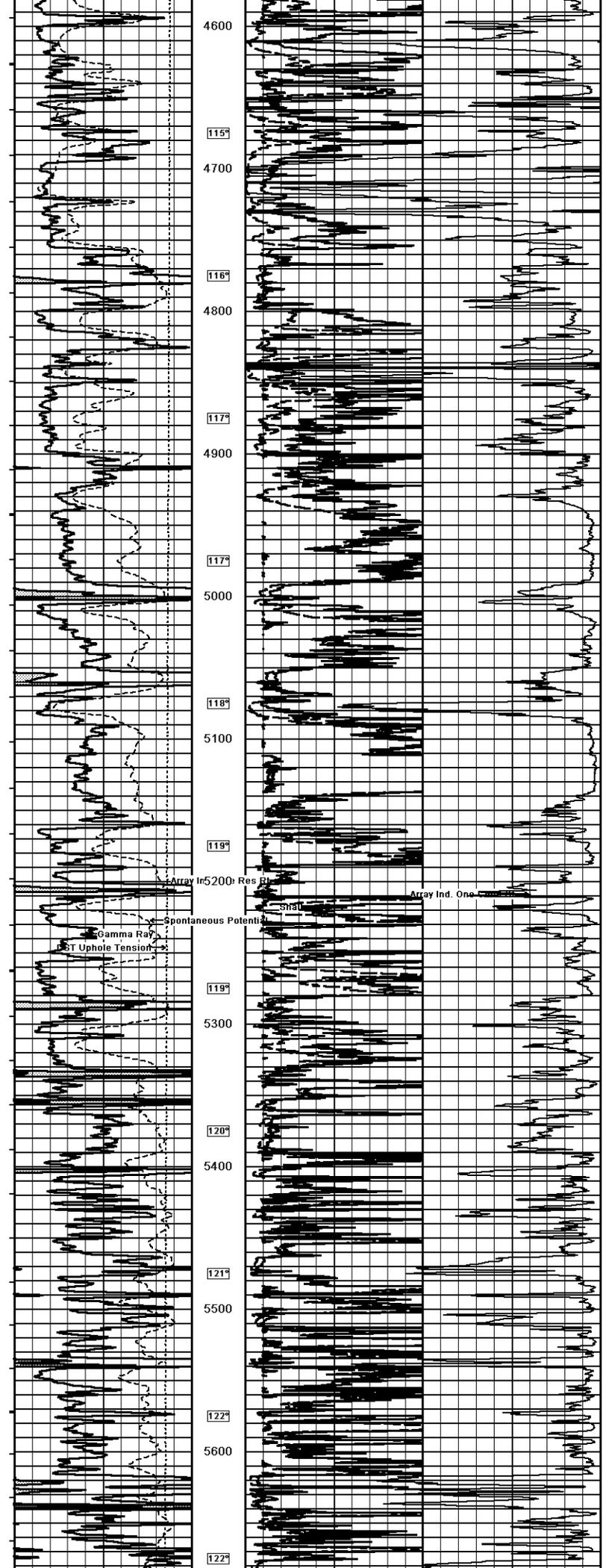
C1460 g  
Shoe

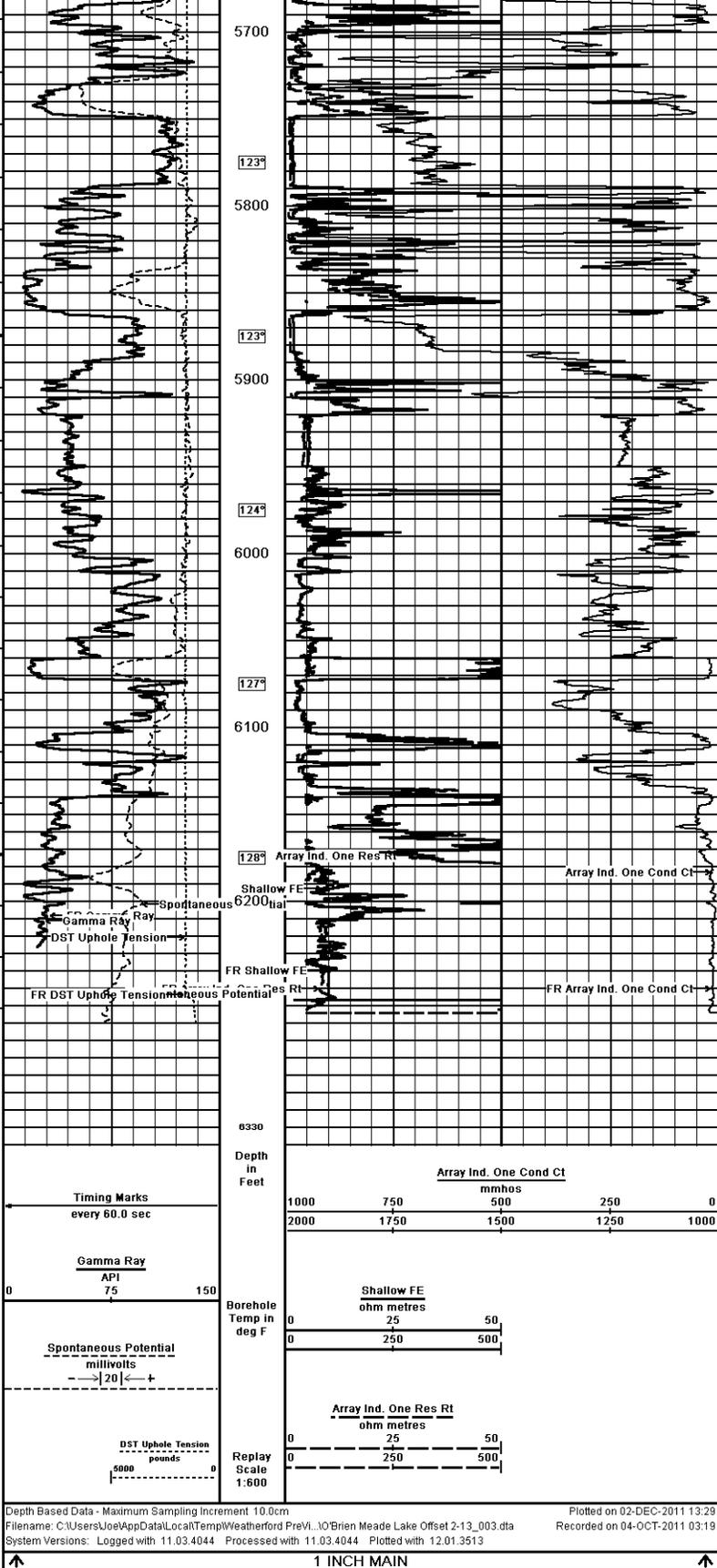


2000 1750 1500 1250 1000









Depth Based Data - Maximum Sampling Increment 10.0cm  
 Plotted on 02-DEC-2011 13:29  
 Filename: C:\Users\Joe\AppData\Local\Temp\Weatherford PreVi...10'Brien Meade Lake Offset 2-13\_003.dta  
 Recorded on 04-OCT-2011 03:19  
 System Versions: Logged with 11.03.4044 Processed with 11.03.4044 Plotted with 12.01.3513

COMPANY O'BRIEN ENERGY RESOURCES CORP.  
 WELL MEADE LAKE OFFSET #2-13  
 FIELD WILDCAT  
 PROVINCE/COUNTY MEADE  
 COUNTRY/STATE U.S.A. / KANSAS

Elevation Kelly Bushing	2516.00	feet	First Reading	6251.00	feet
Elevation Drill Floor	2514.00	feet	Depth Driller	6250.00	feet
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**Weatherford** ARRAY INDUCTION  
 SHALLOW FOCUSED  
 ELECTRIC LOG

