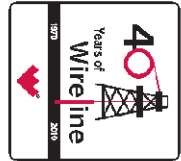




**Weatherford**

ARRAY INDUCTION  
SHALLOW FOCUSED  
ELECTRIC LOG

COMPANY O'BRIEN ENERGY RESOURCES CORP.  
 WELL HULL #2-11  
 FIELD ADAMS RANCH  
 PROVINCE/COUNTY MEADE  
 COUNTRY/STATE U.S.A. / KANSAS  
 LOCATION 660' FNL & 1650' FEL



SEC TWP RGE Other Services  
 11 34S 30W MPD/MDN MML

API Number 15-119-21280

Permit Number

Permanent Datum G.L., Elevation 2668 feet  
 Log Measured From K.B. @ 12 FEET above Permanent Datum  
 Drilling Measured From K.B.

Elevations: feet  
 KB 2680.00  
 DF 2678.00  
 GL 2668.00

Date	13-FEB-2011
Run Number	ONE
Depth Driller	6387.00 feet
Depth Logger	6383.00 feet
First Reading	6380.00 feet
Last Reading	1489.00 feet
Casing Driller	1489.00 feet
Casing Logger	1489.00 feet
Bit Size	7.875 inches
Hole Fluid Type	CHEMICAL
Density / Viscosity	9.20 lb/USg 62.00 CP
PH / Fluid Loss	10.50 5.80 ml/30Min
Sample Source	FLOWLINE
Rm @ Measured Temp	1.05 @ 73.0 ohm-m
Rmf @ Measured Temp	0.84 @ 73.0 ohm-m
Rmc @ Measured Temp	1.26 @ 73.0 ohm-m
Source Rmf / Rmc	CALC CALC
Rm @ BHT	0.65 @ 118.0 ohm-m
Time Since Circulation	5 HOURS
Max Recorded Temp	118.00 deg F
Equipment Name	COMPACT
Equipment / Base	13057 LIB
Recorded By	L. SCOTT
Witnessed By	ROGER PEARSON
S.O.# / JOB#	3529057
	PETER DEBENHAM
	LB11-028

### BOREHOLE RECORD

Last Edited: 13-FEB-2011 20:38

Bit Size inches	Depth From feet	Depth To feet
7.875	1489.00	6383.00

### CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	8.625	0.00	1489.00	24.00

### REMARKS

Tools Used: MCG, MML, MDN, MPD, SKJ, MFE, MAI  
 Hardware: MPD: 8 inch profile plate. MAI and 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 4.5 inch production casing= 821 cu. ft.  
 Service order #3529057  
 Rig: Duke #6  
 Engineer: L. Scott  
 Operator(s): J. LaPoint, 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.

# 2 INCH MAIN PASS

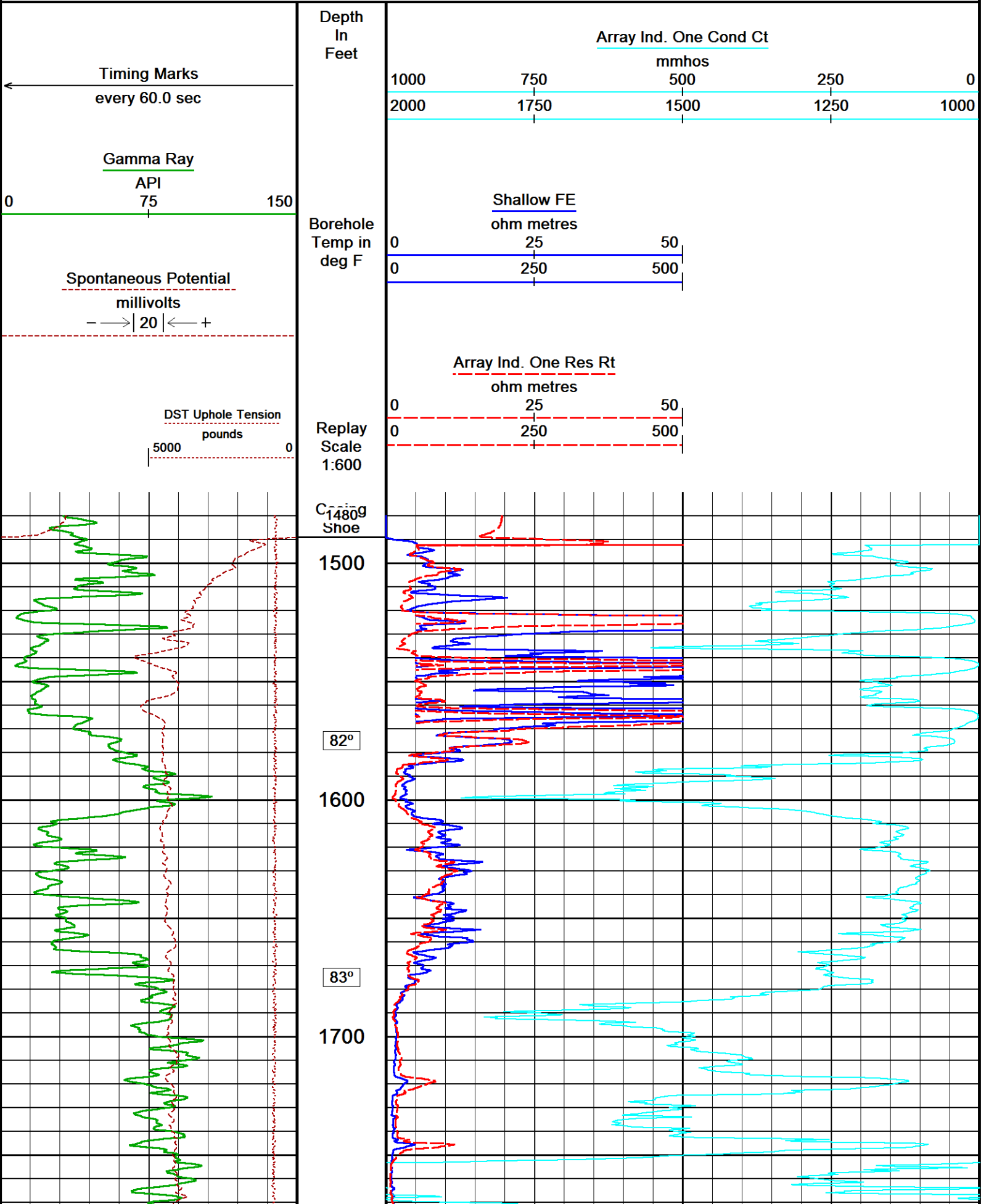
Depth Based Data - Maximum Sampling Increment 10.0cm

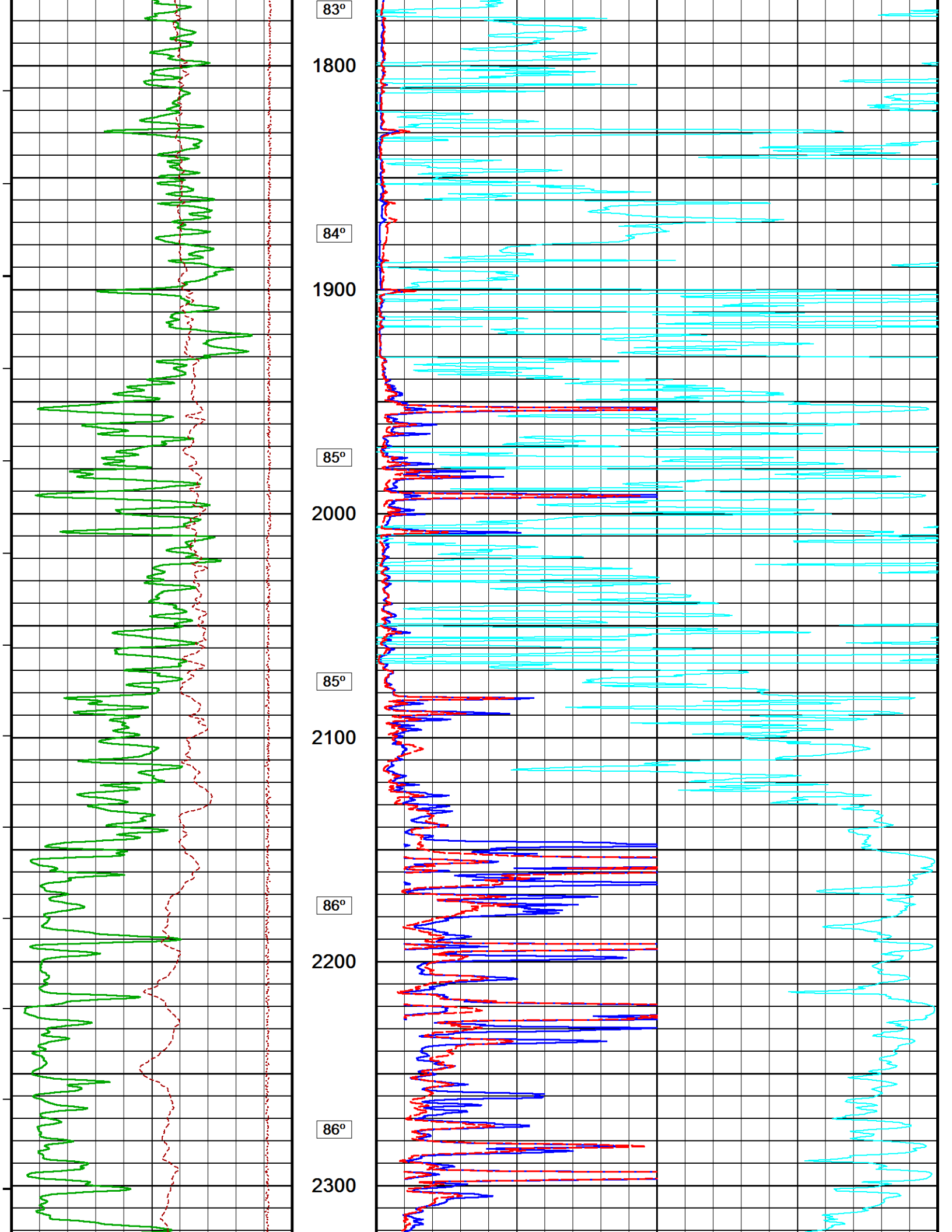
Plotted on 08-MAR-2011 15:39

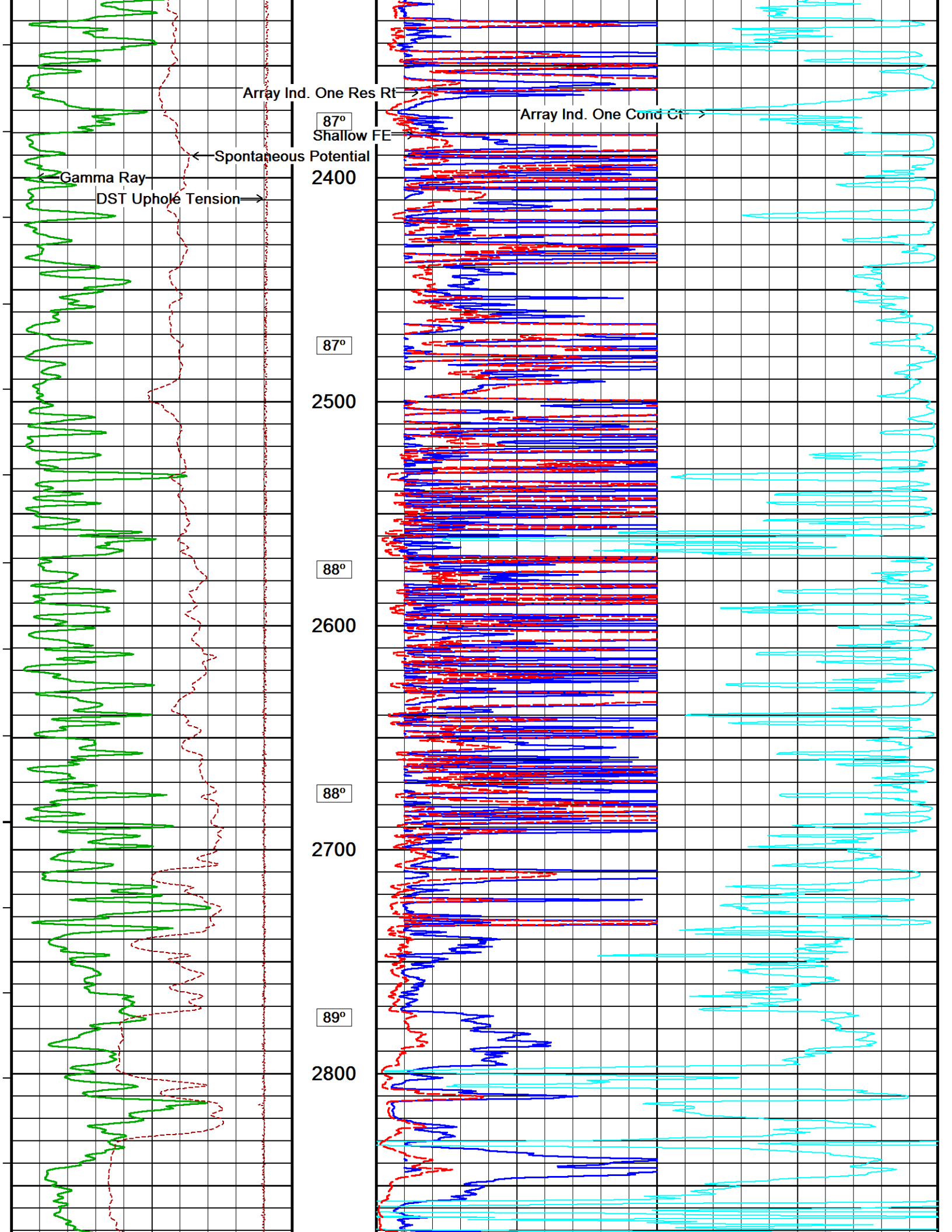
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Recorded on 13-FEB-2011 18:15

System Versions: Logged with 11.03.2789 Processed with 11.03.2789 Plotted with 11.02.2164







Array Ind. One Res Rt →

Array Ind. One Cond Ct →

87°

Shallow FE →

← Spontaneous Potential

← Gamma Ray

DST Uphole Tension →

2400

87°

2500

88°

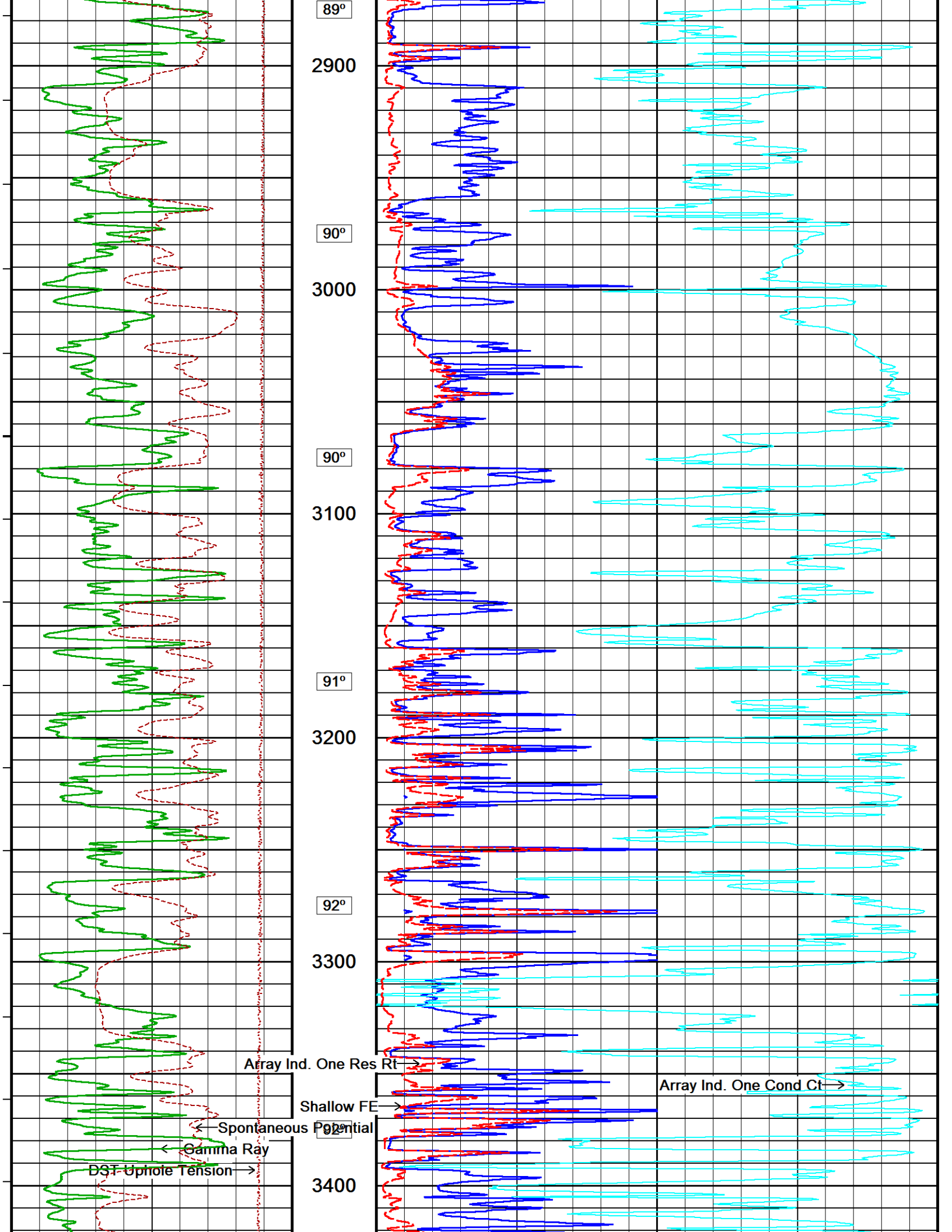
2600

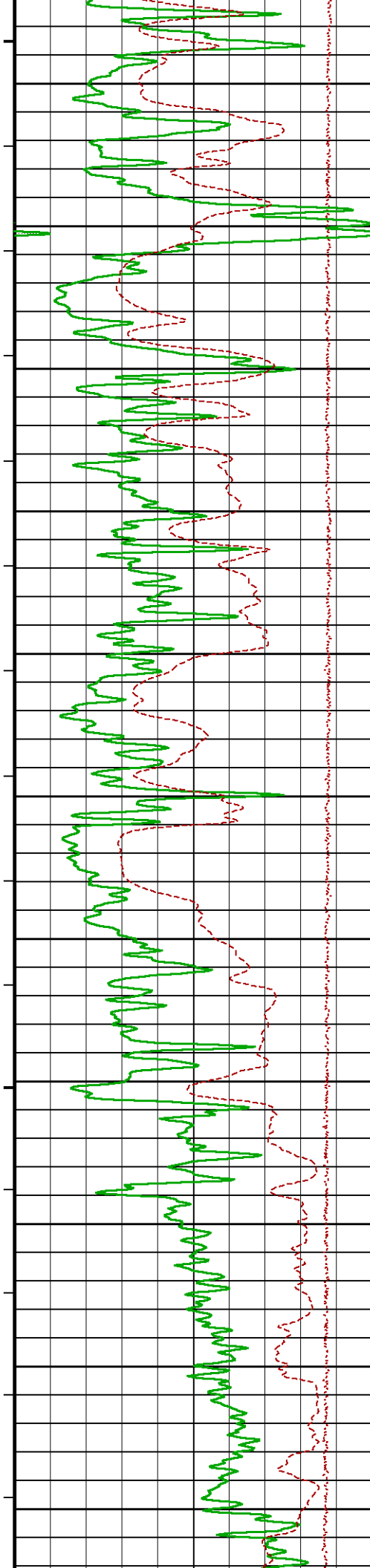
88°

2700

89°

2800





92°

3500

93°

3600

94°

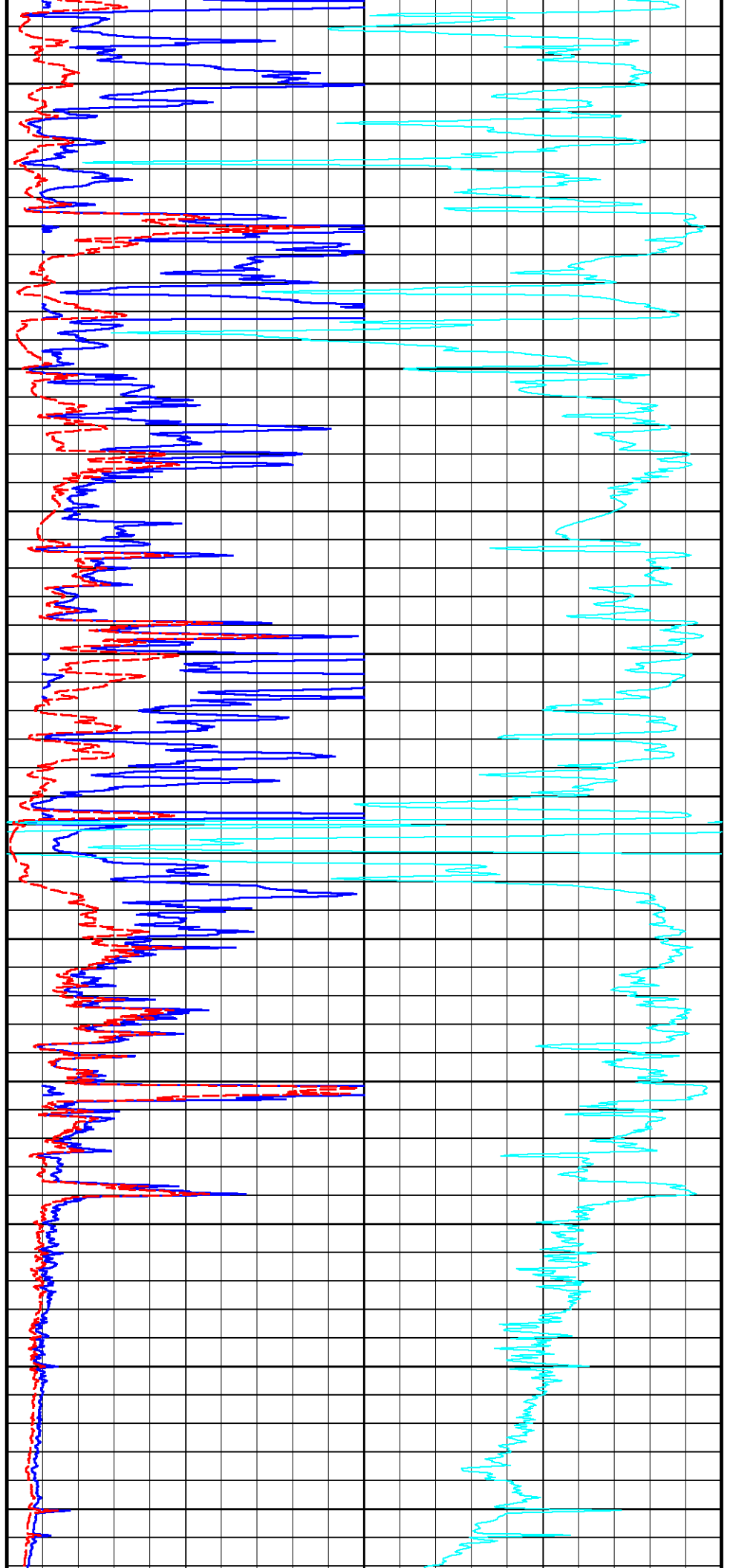
3700

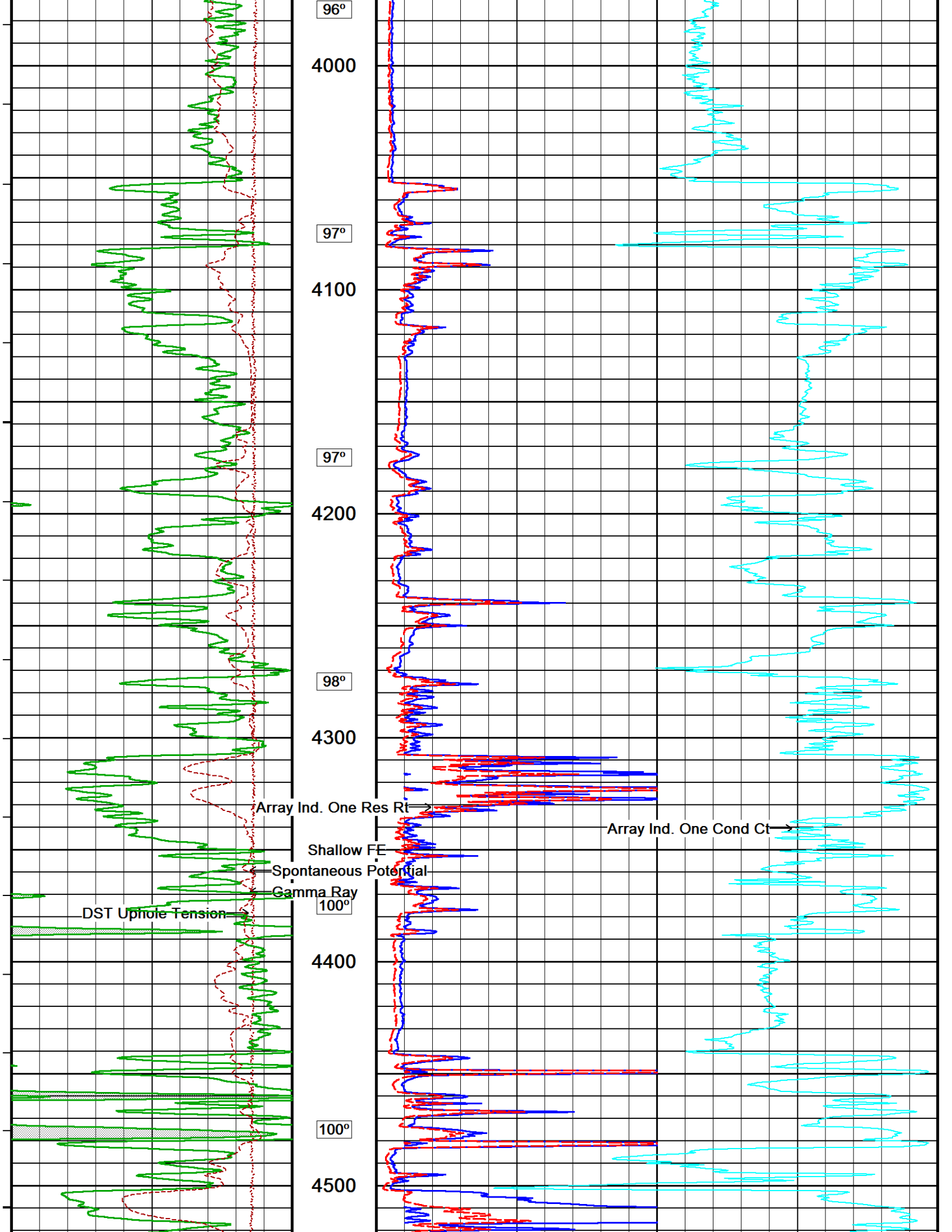
95°

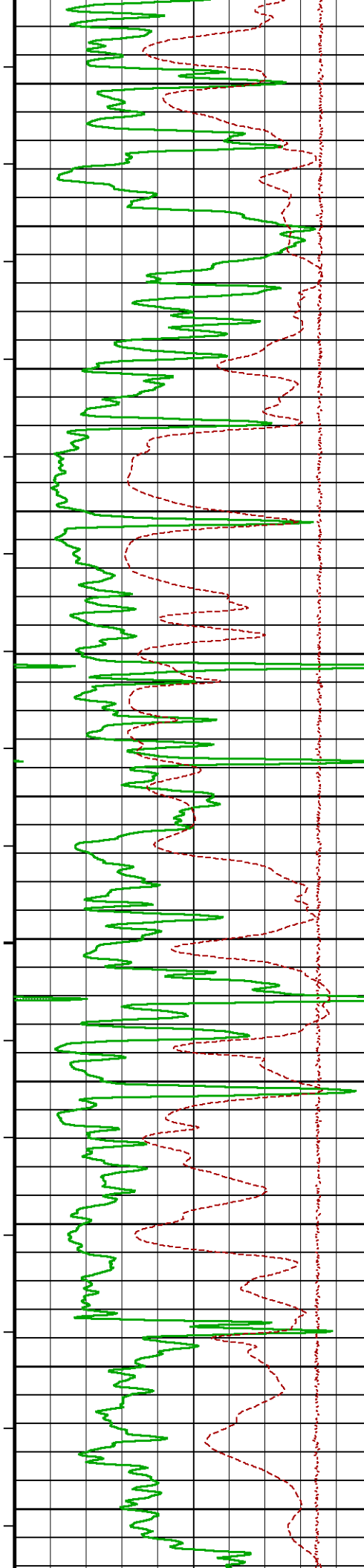
3800

95°

3900







101°

4600

102°

4700

103°

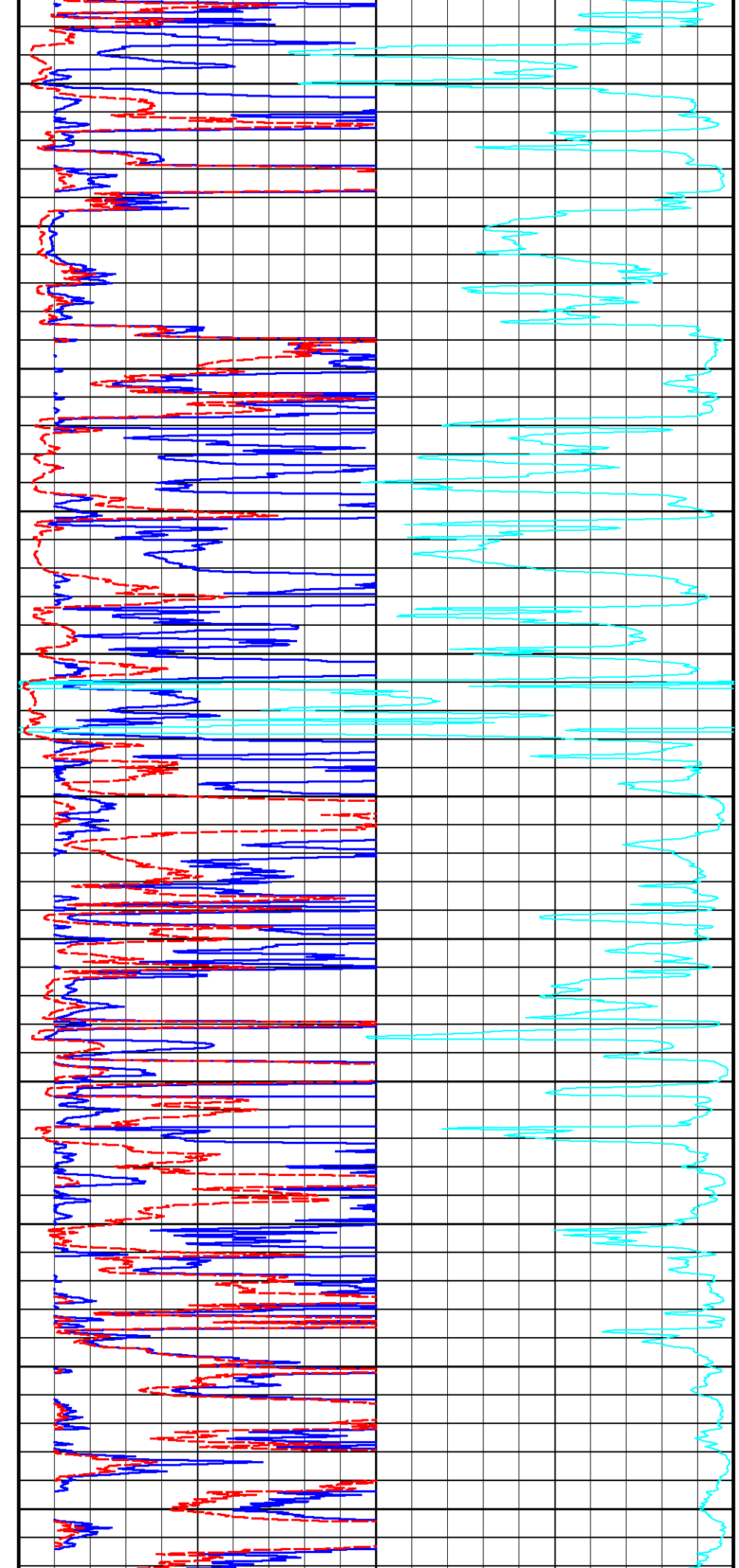
4800

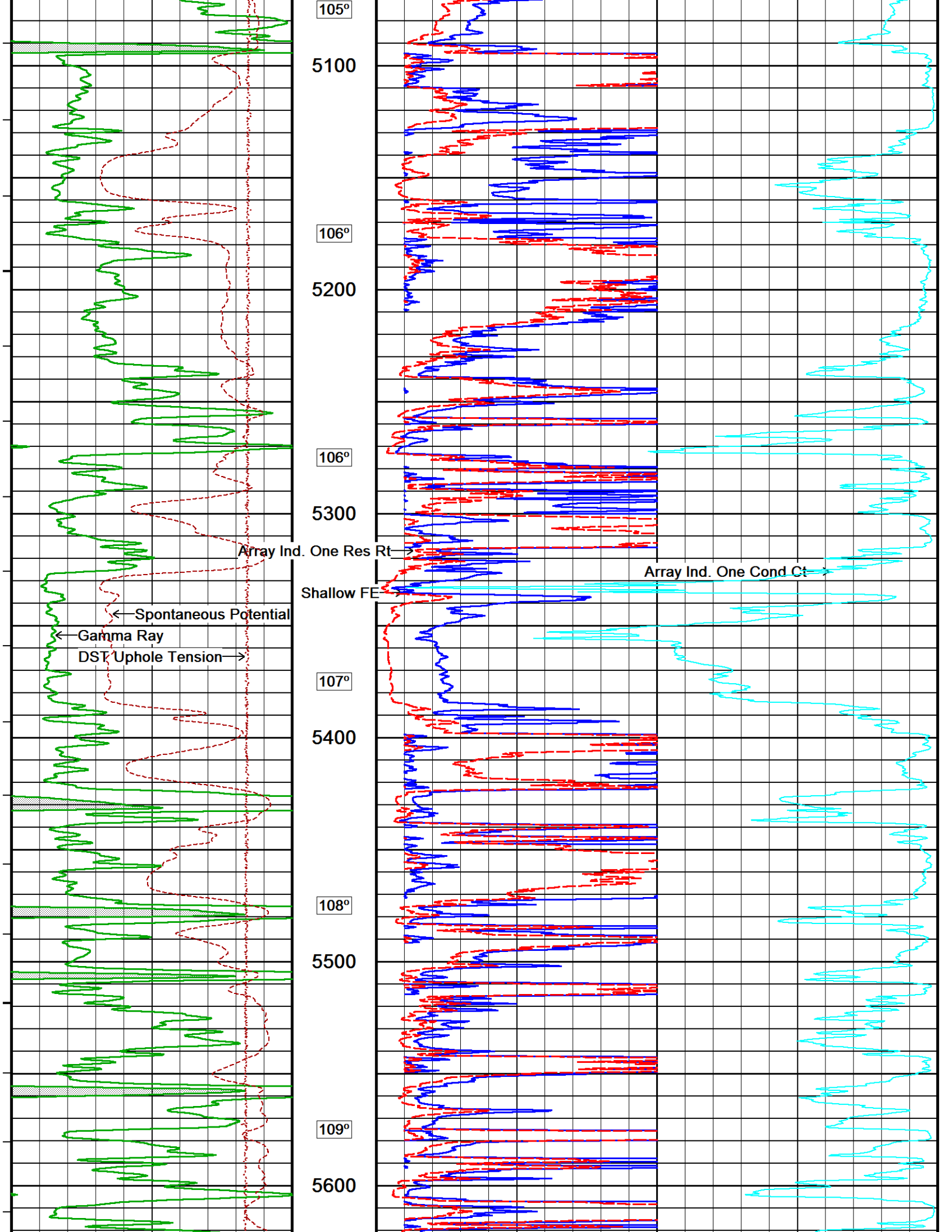
104°

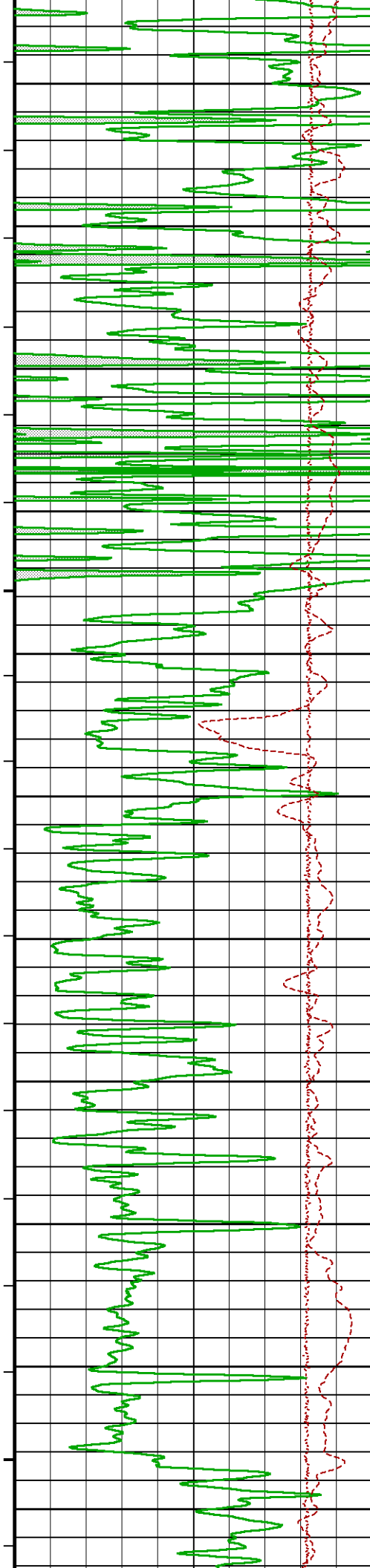
4900

104°

5000







110°

5700

111°

5800

112°

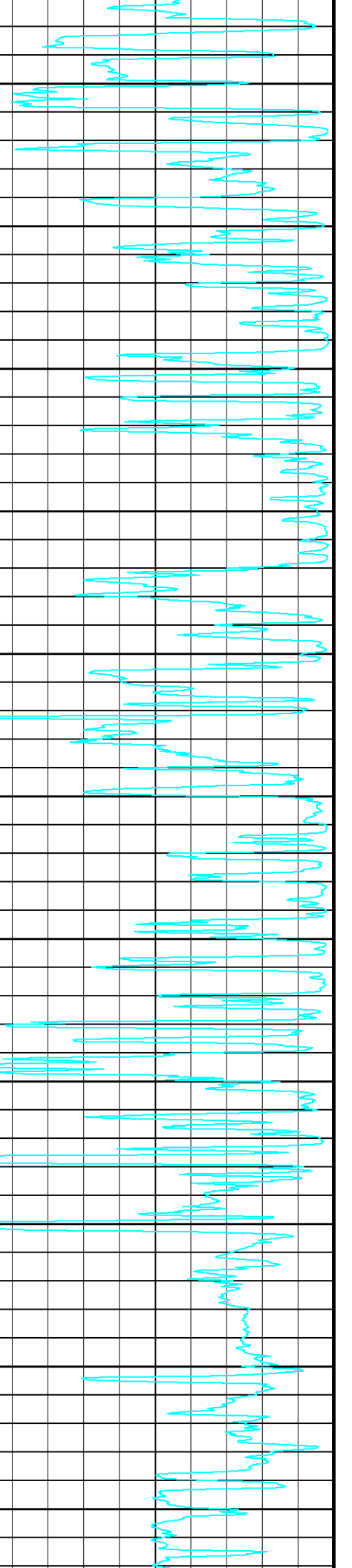
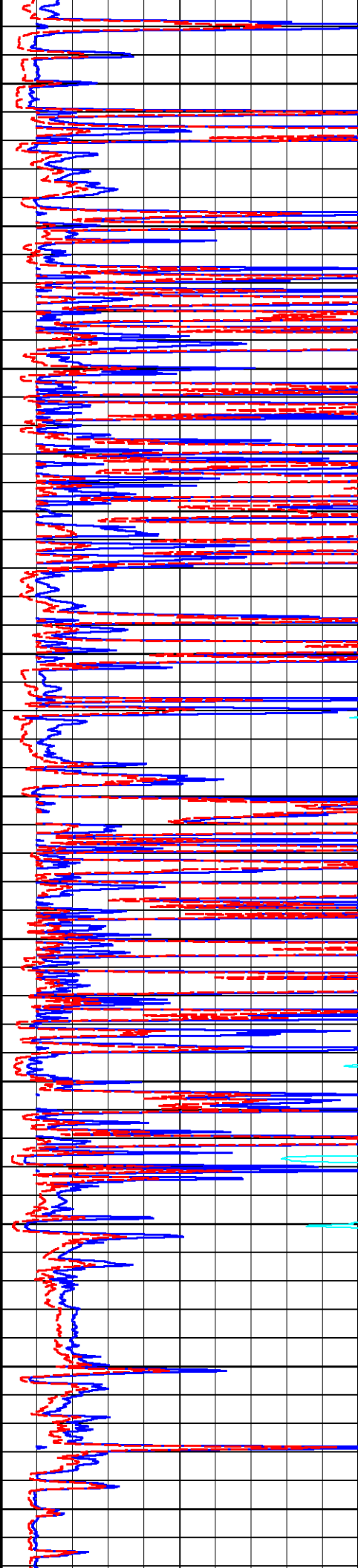
5900

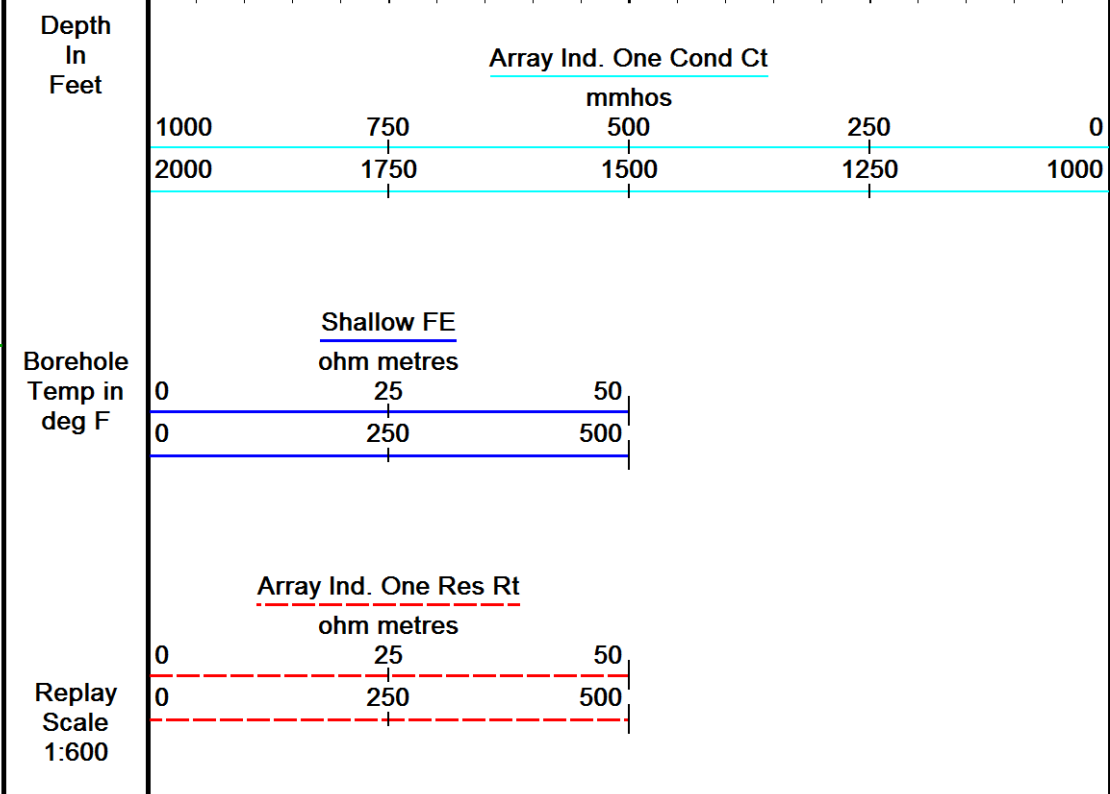
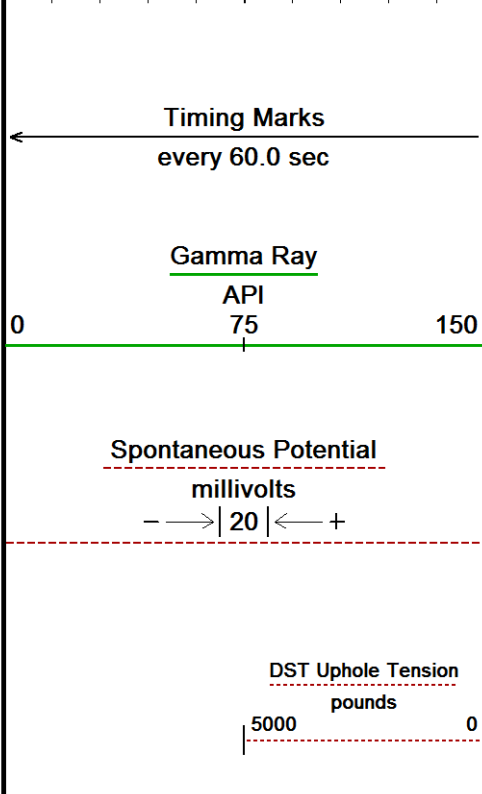
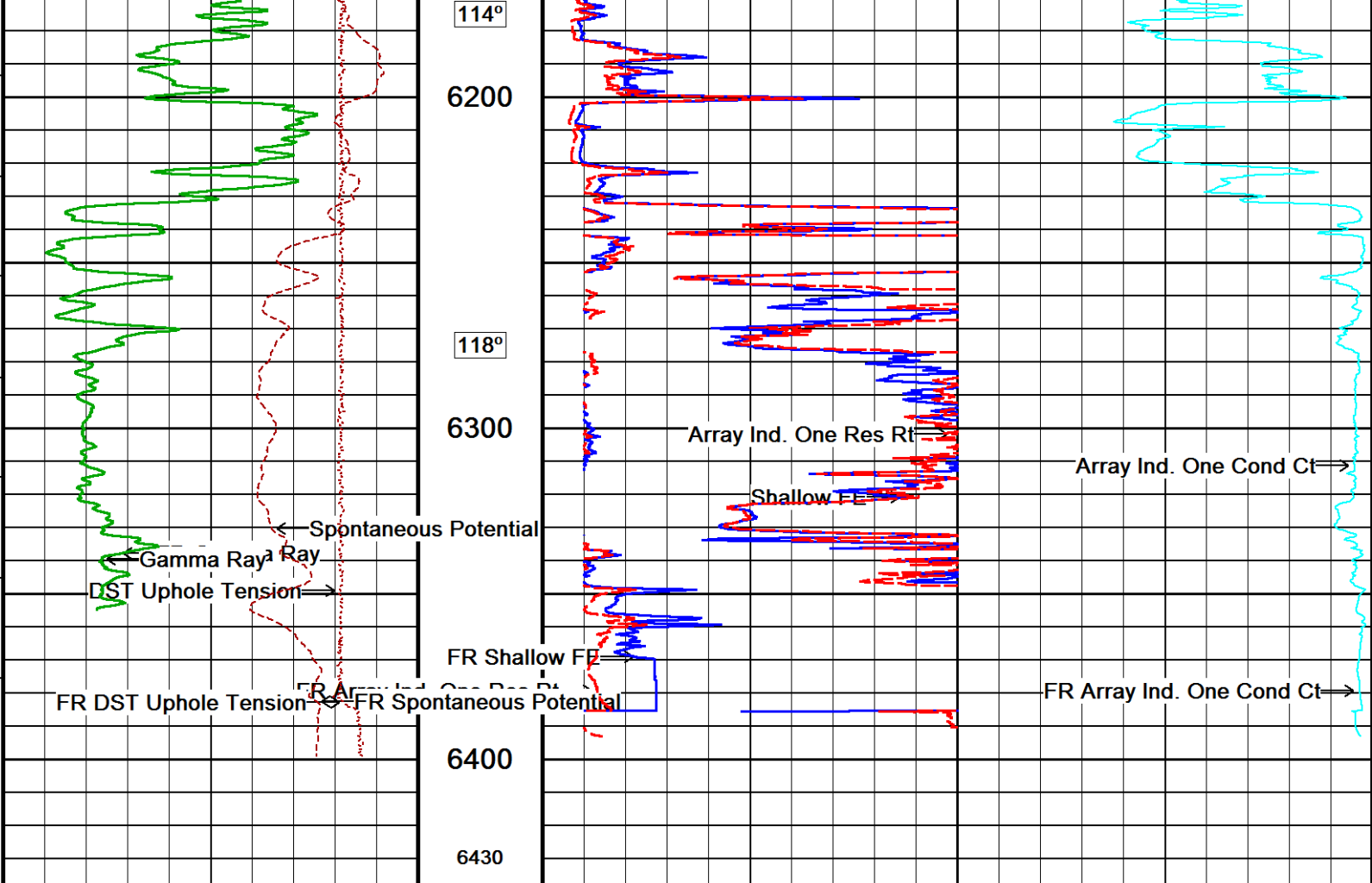
112°

6000

113°

6100



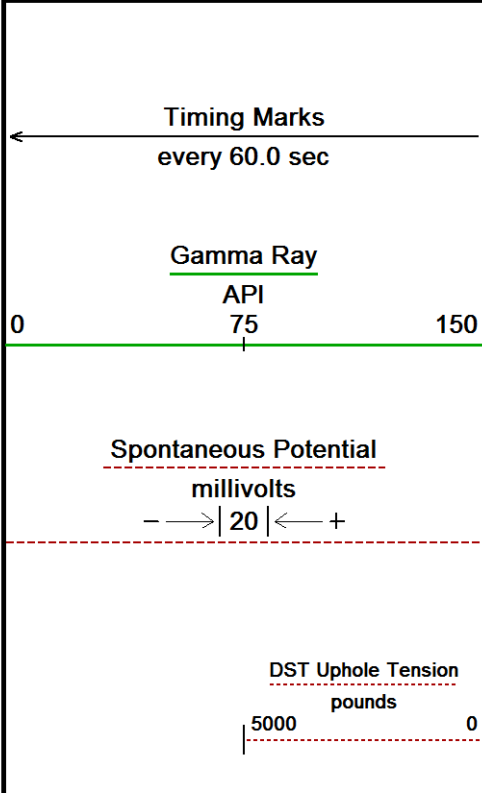


Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 08-MAR-2011 15:39  
 Filename: C:\Users\Joe\AppData\Local\Temp\Weatherford PreView\0\O'BRIEN HULL #2-11\_006.dta Recorded on 13-FEB-2011 18:15  
 System Versions: Logged with 11.03.2789 Processed with 11.03.2789 Plotted with 11.02.2164

↑ 2 INCH MAIN PASS ↑

↓ 5 INCH MAIN PASS ↓

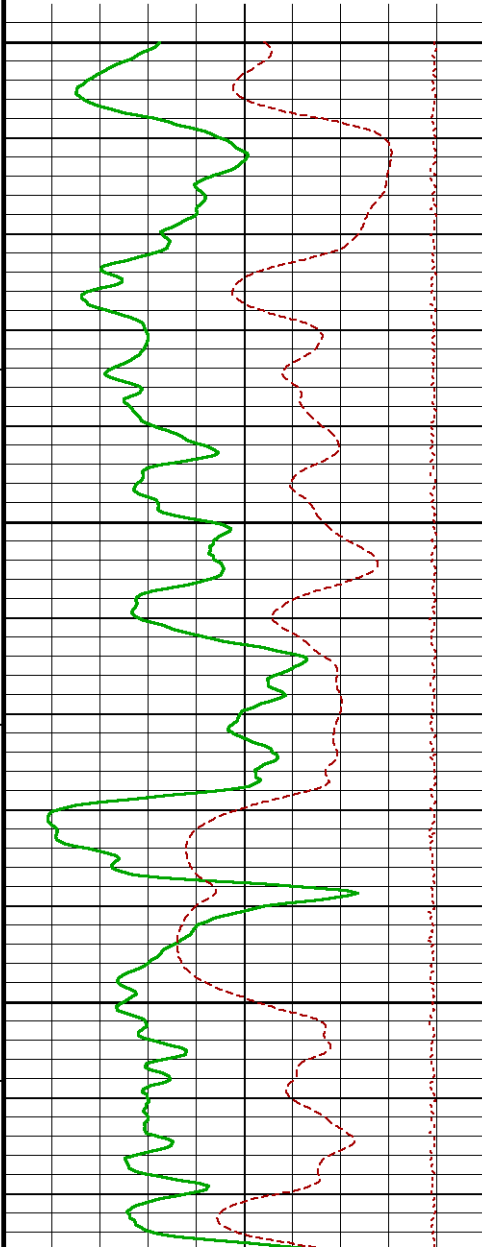
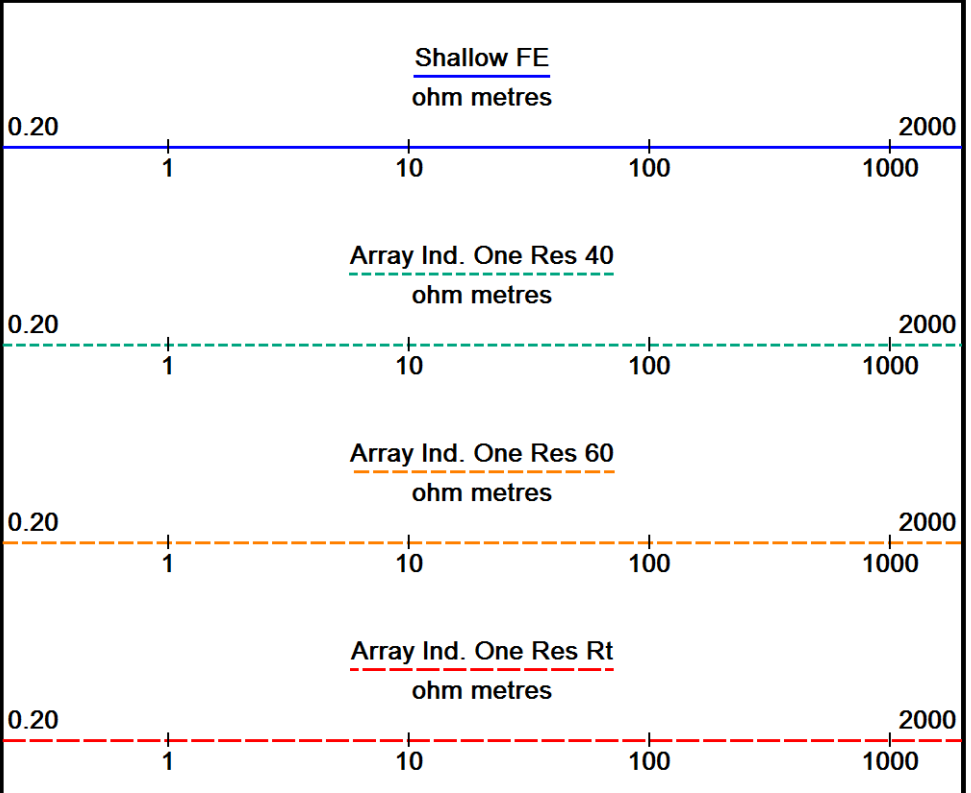
Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 08-MAR-2011 15:39



Depth in Feet

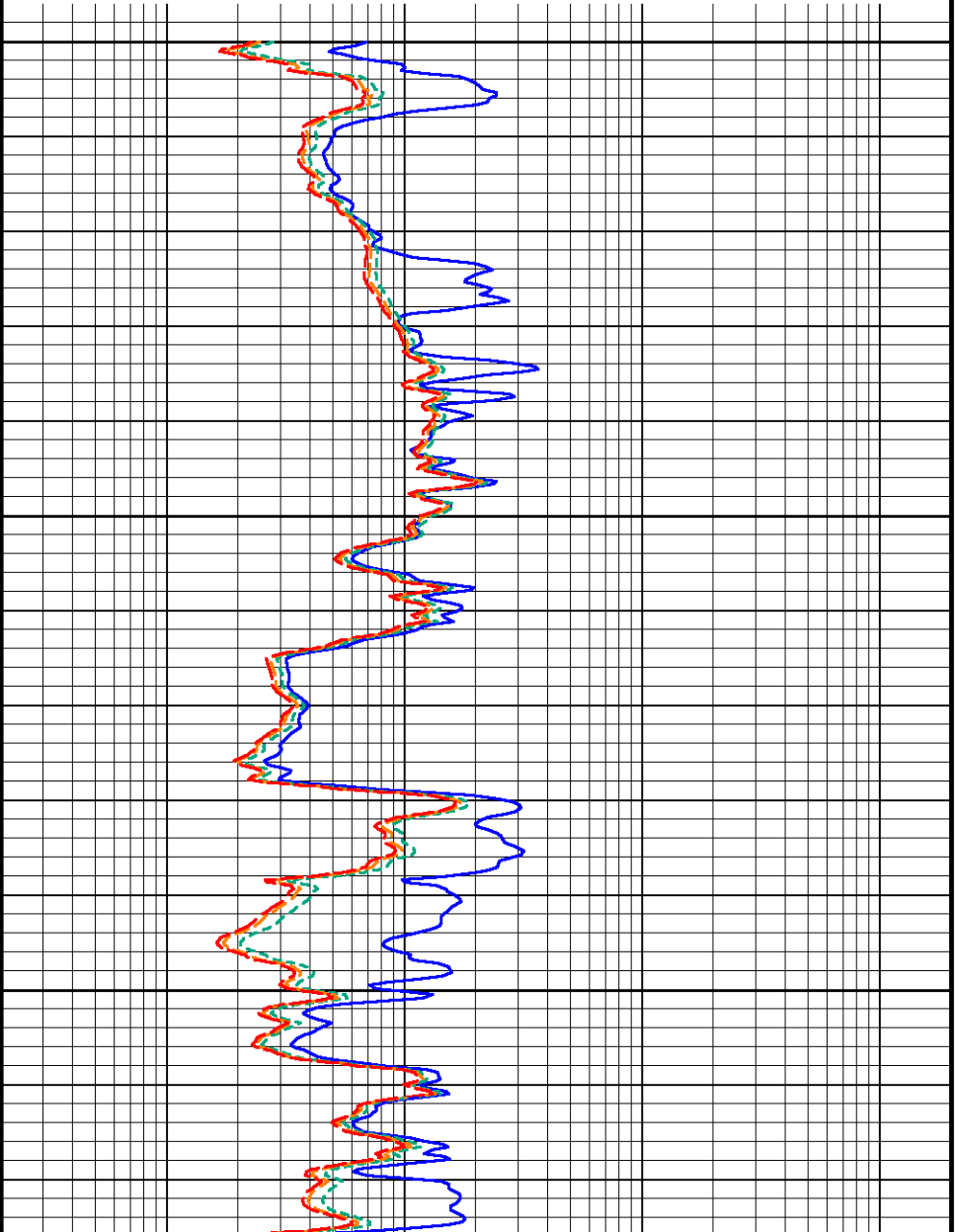
Borehole Temp in deg F

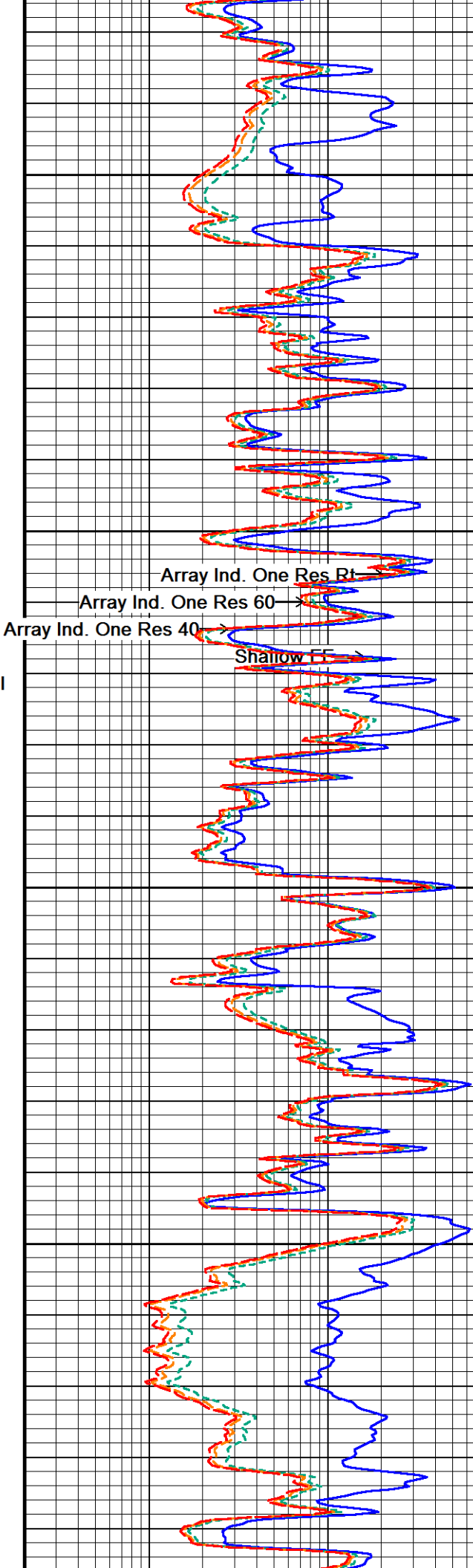
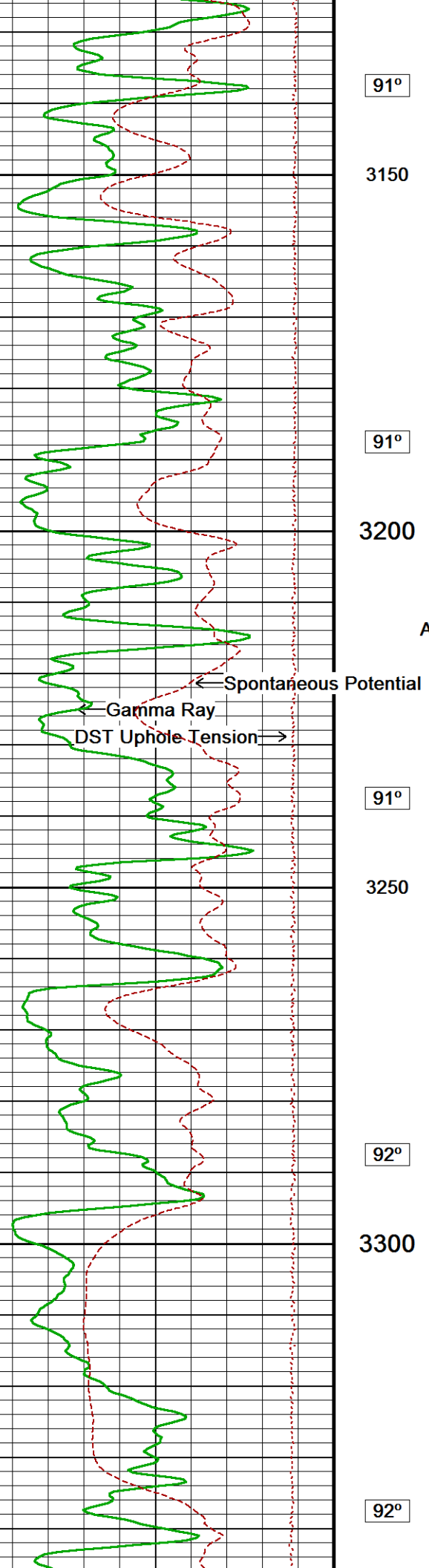
Replay Scale 1:240

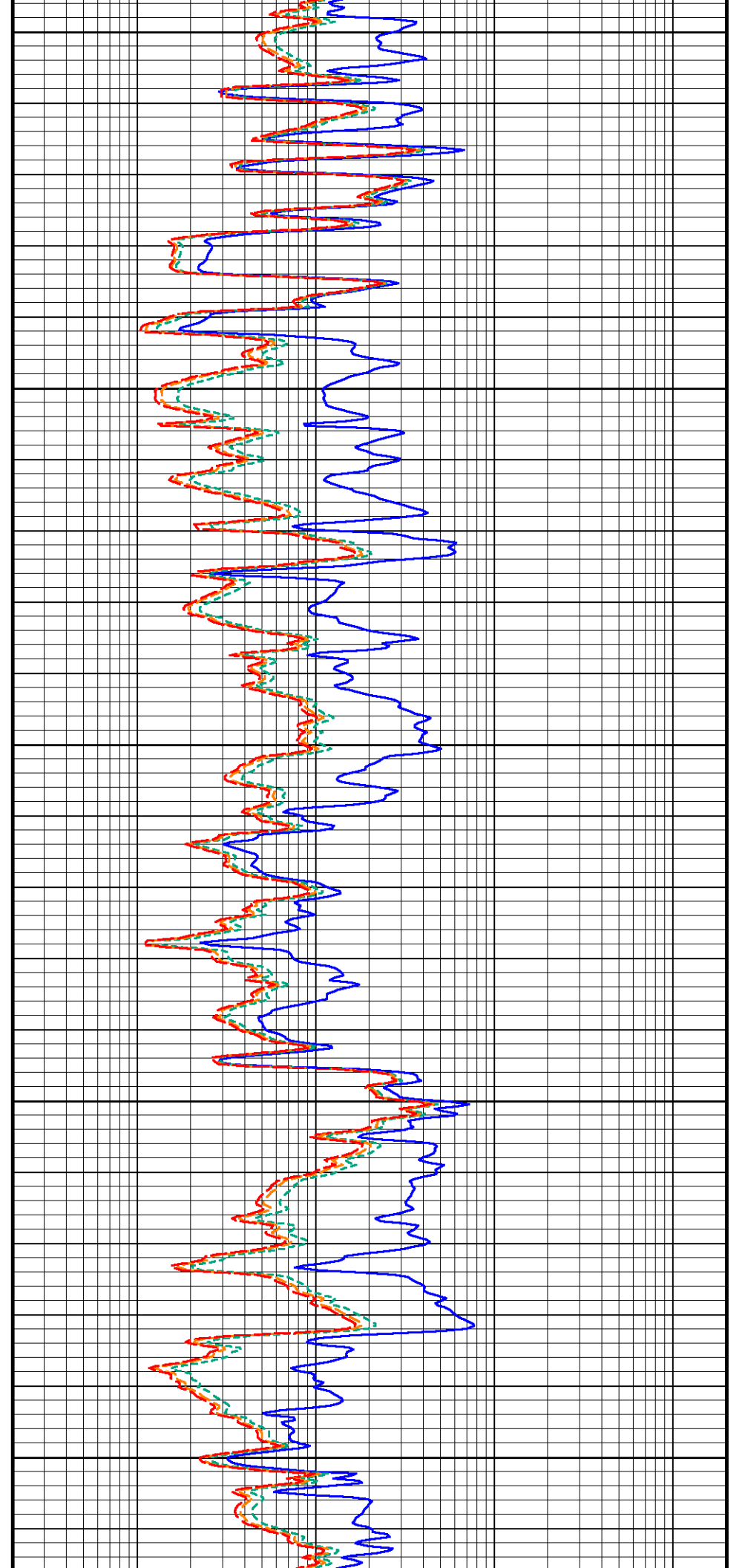
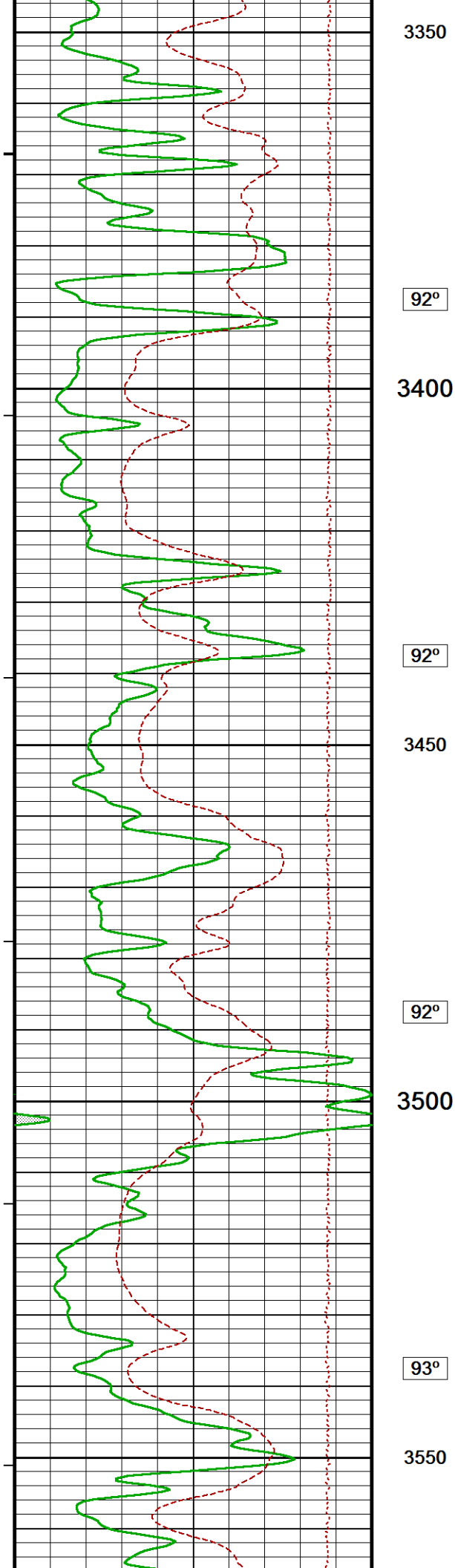


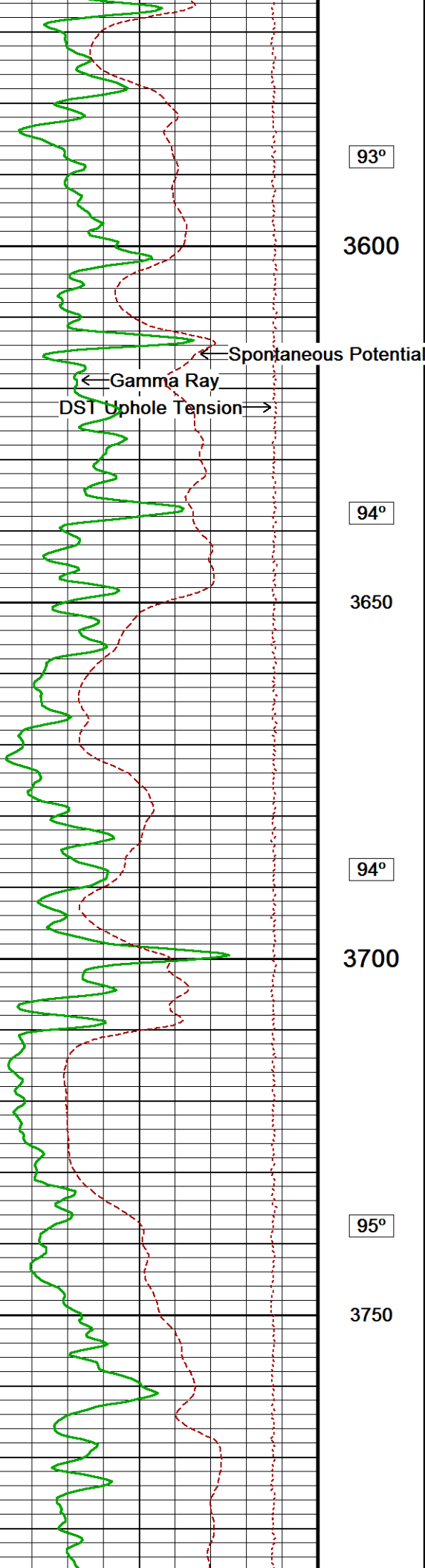
90°

91°









93°

3600

← Spontaneous Potential

← Gamma Ray

DST Uphole Tension →

94°

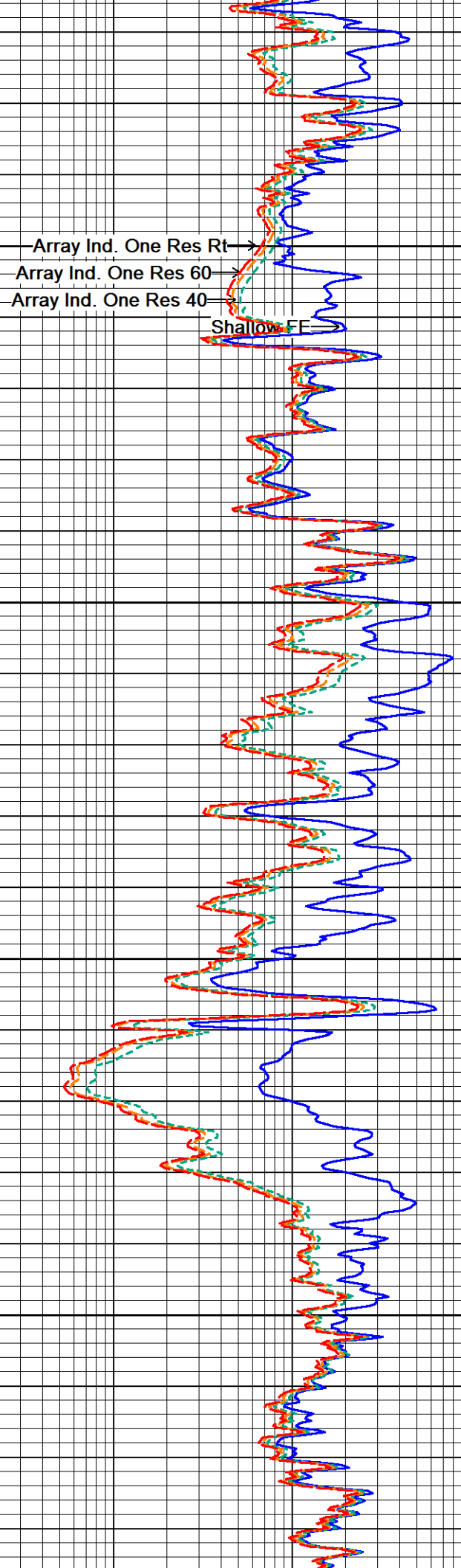
3650

94°

3700

95°

3750

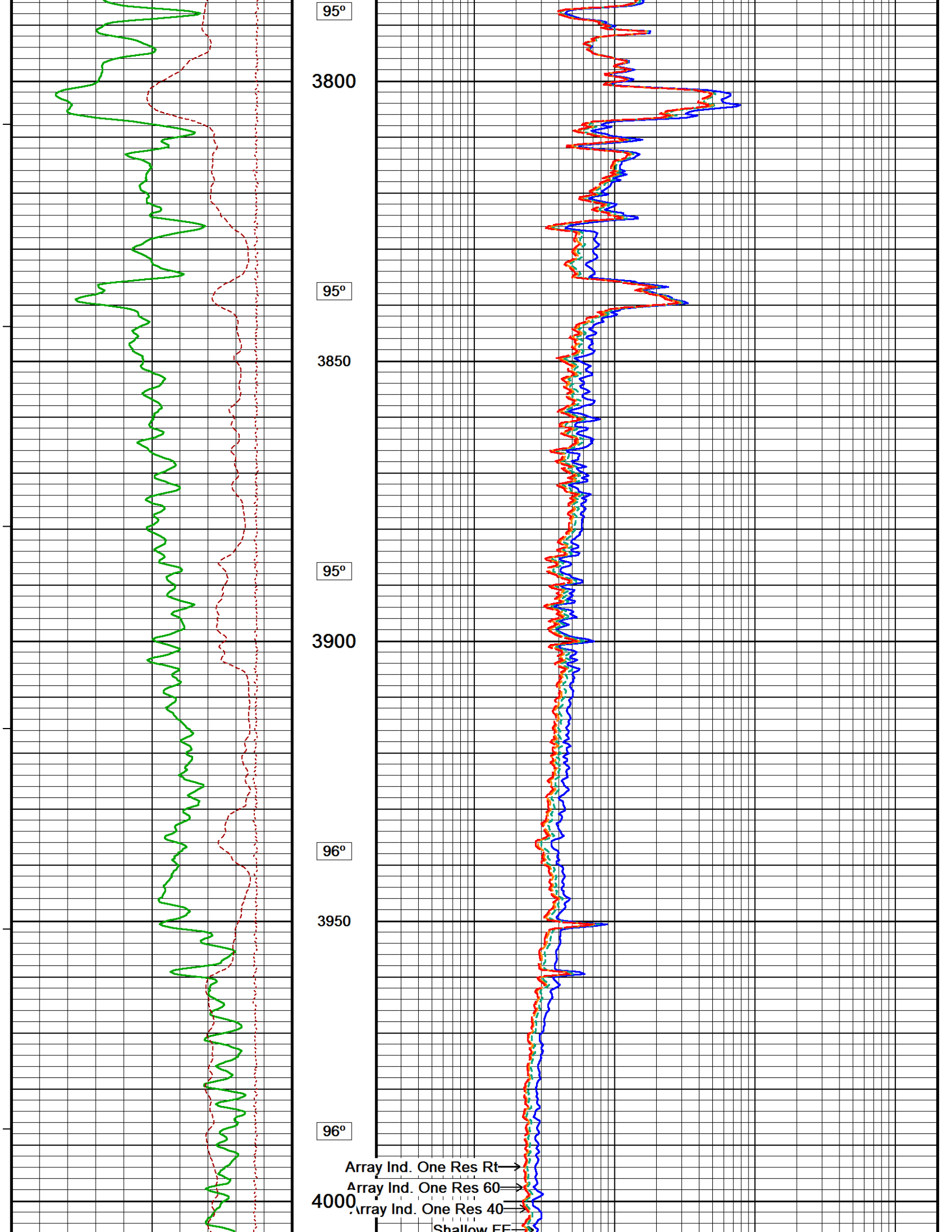


→ Array Ind. One Res Rt

→ Array Ind. One Res 60

→ Array Ind. One Res 40

→ Shallow FF



← Spontaneous Potential  
← Gamma Ray  
DST Uphole Tension →

96°

4050

97°

4100

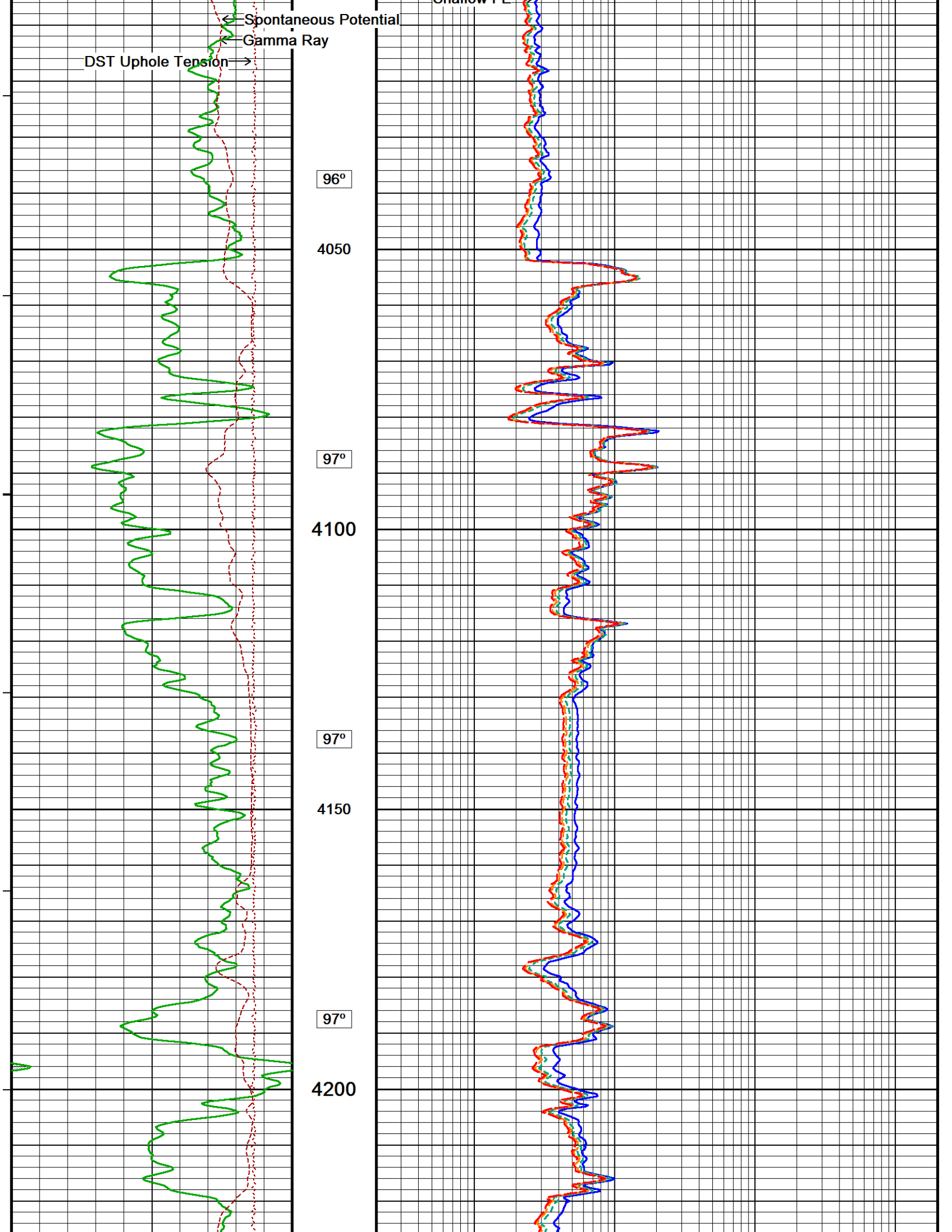
97°

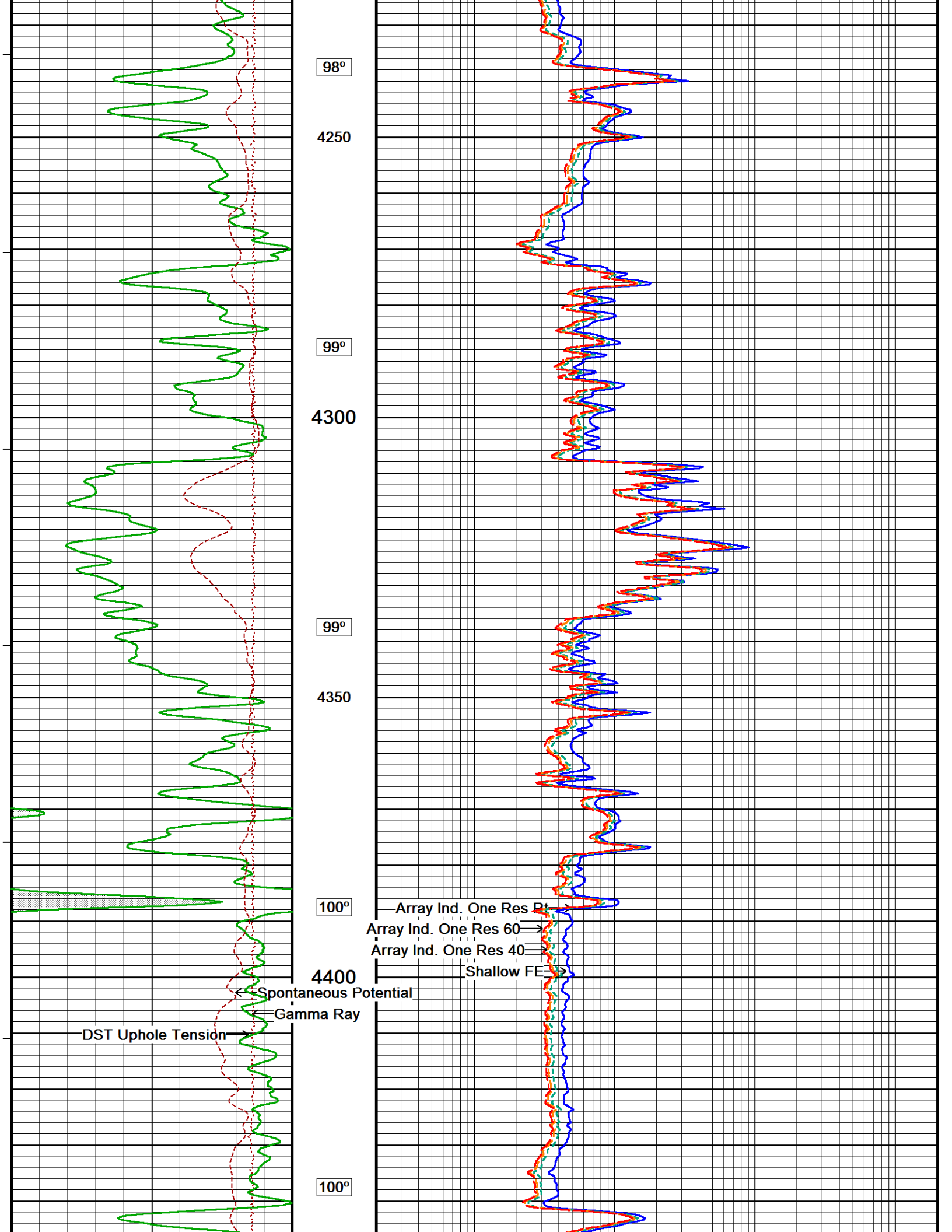
4150

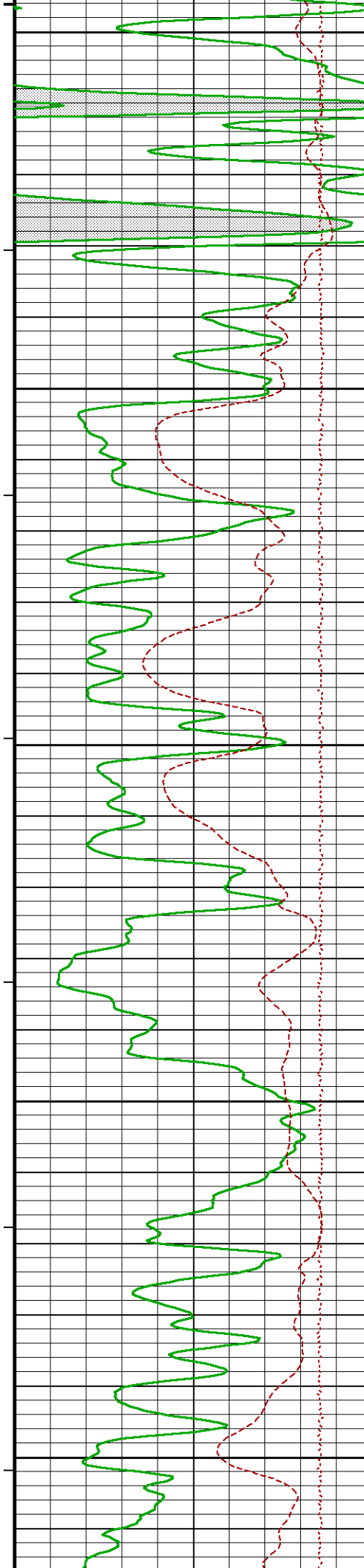
97°

4200

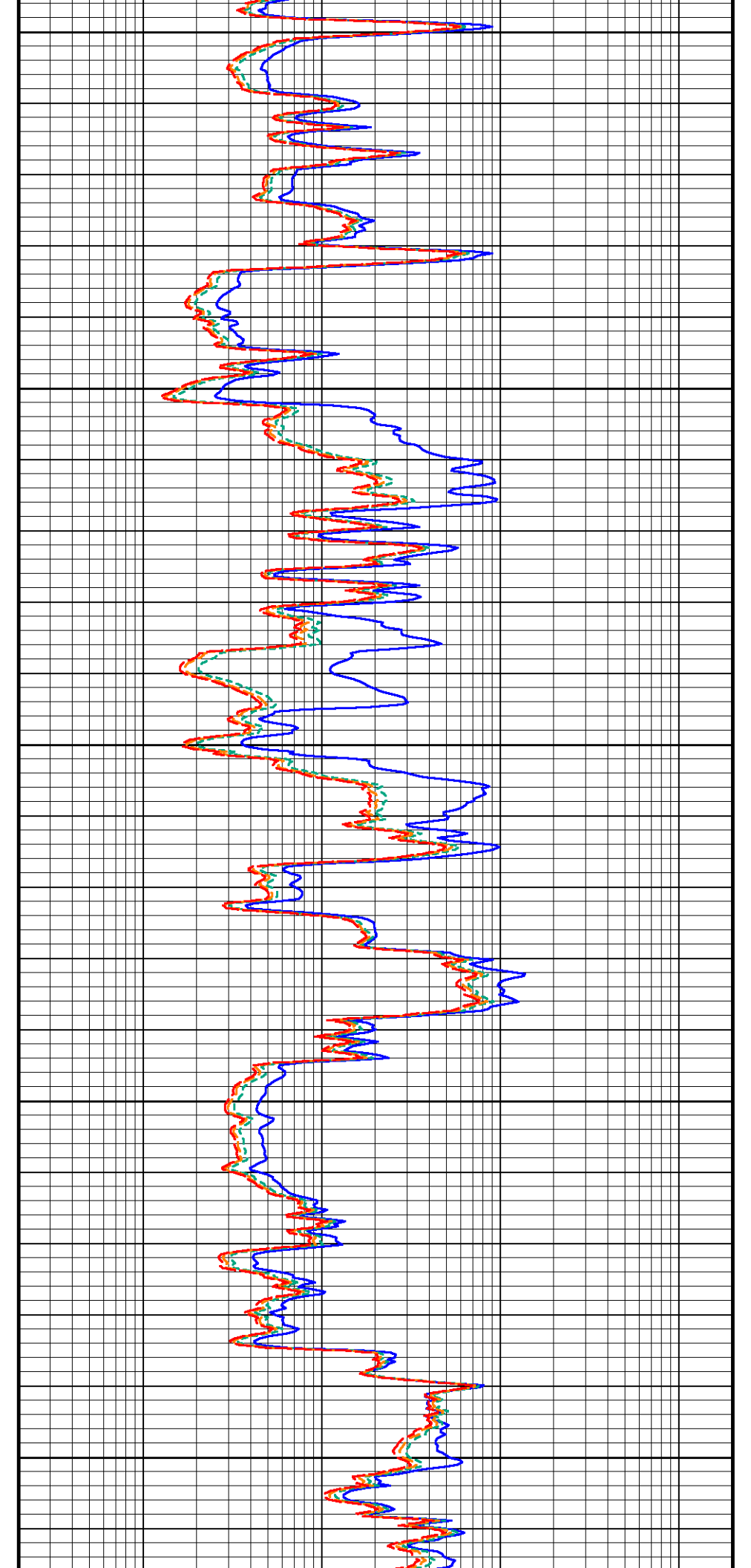
Shallow PE

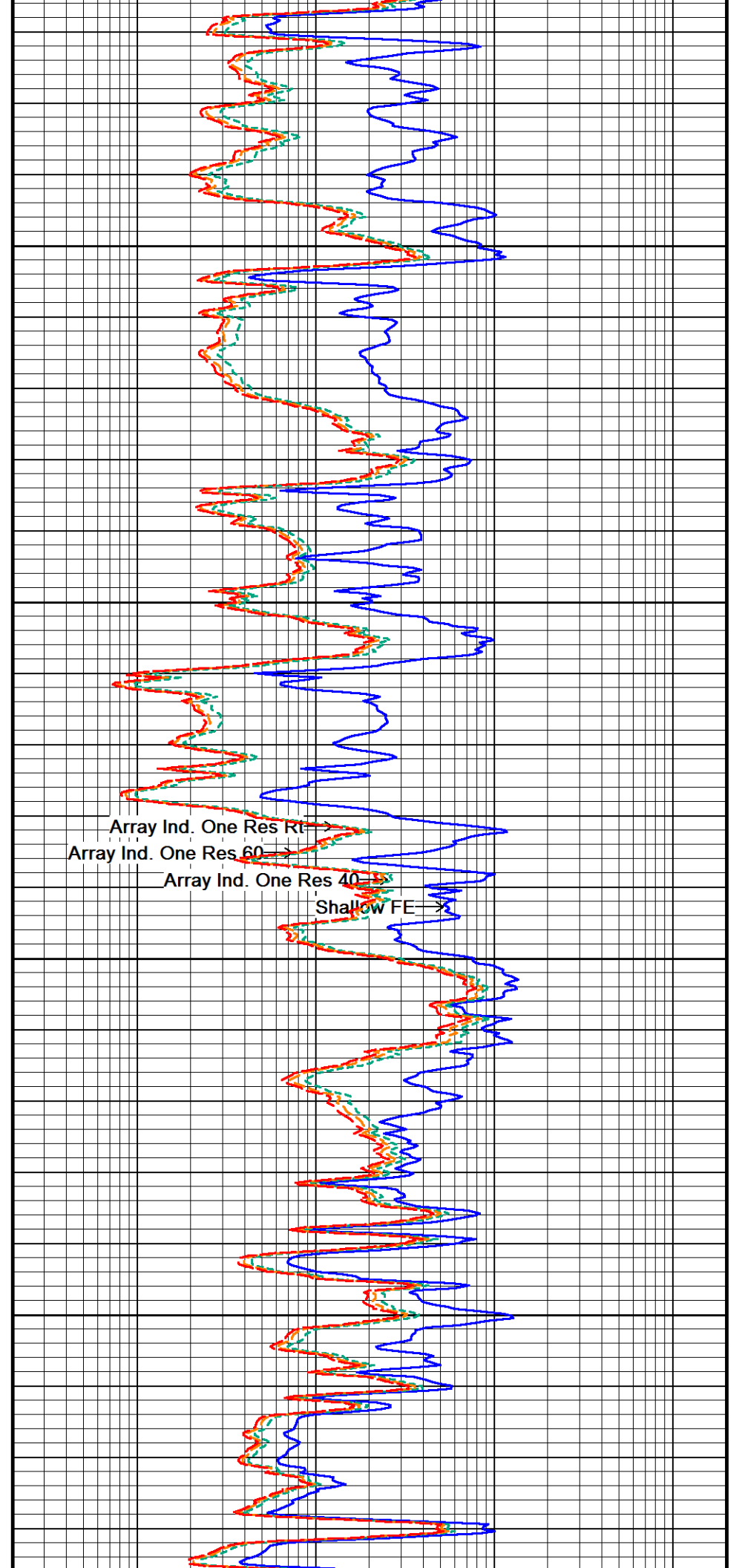
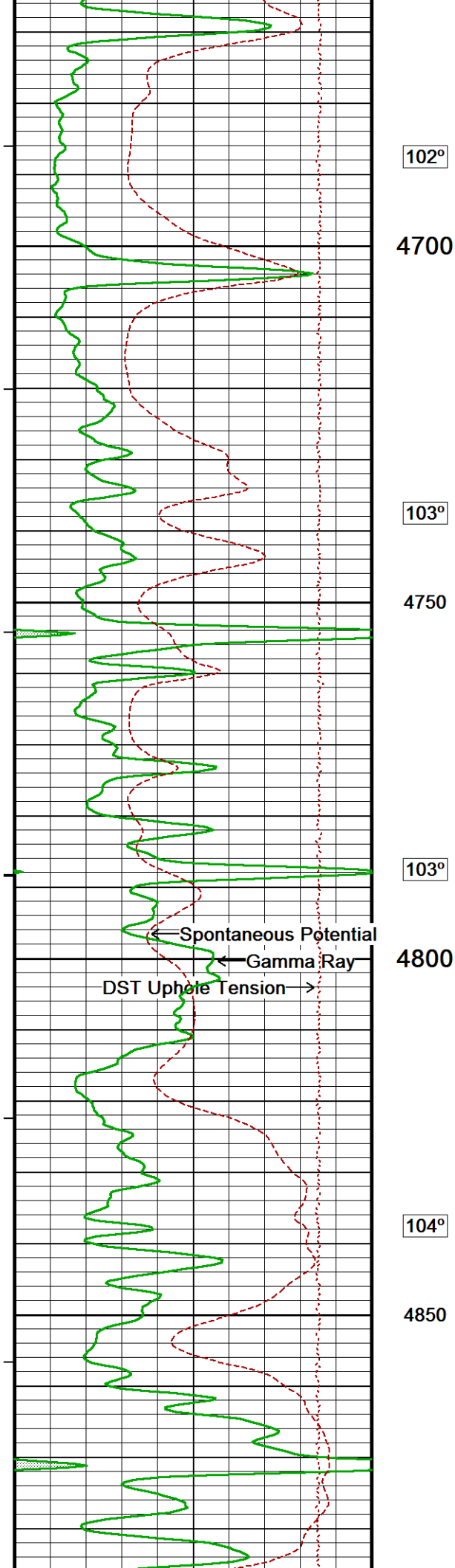


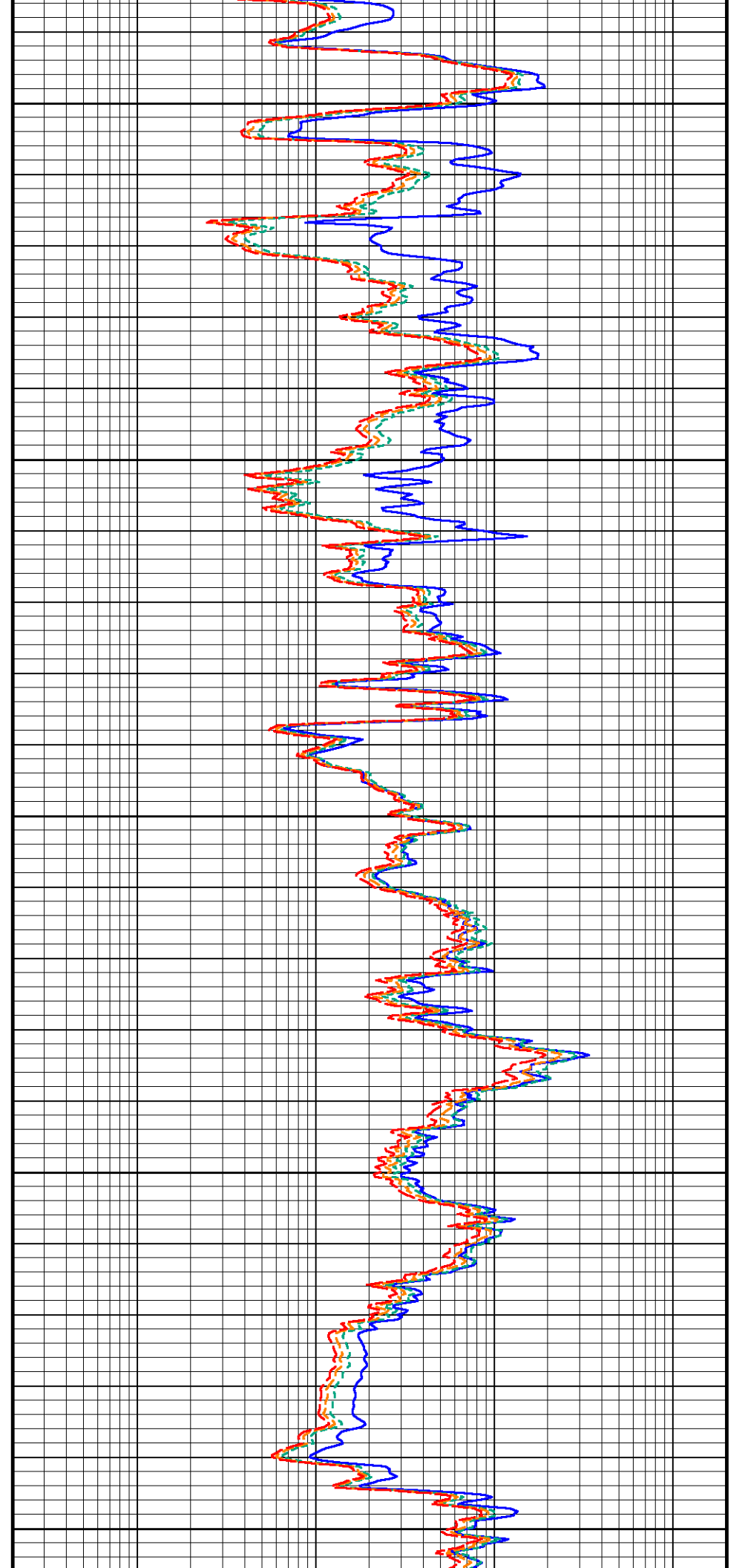
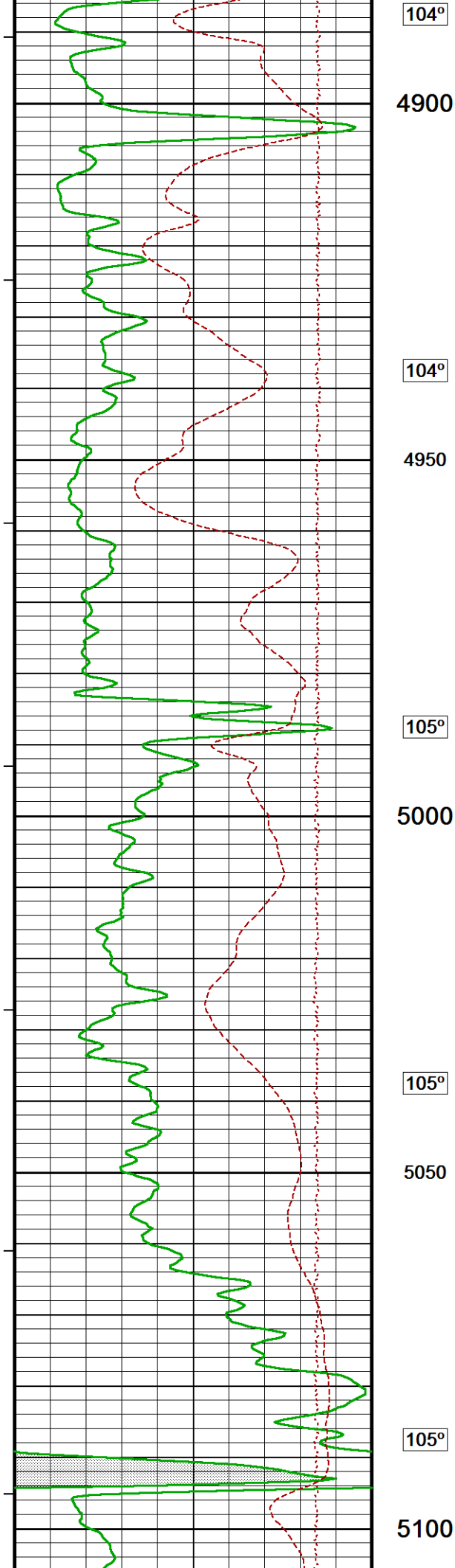


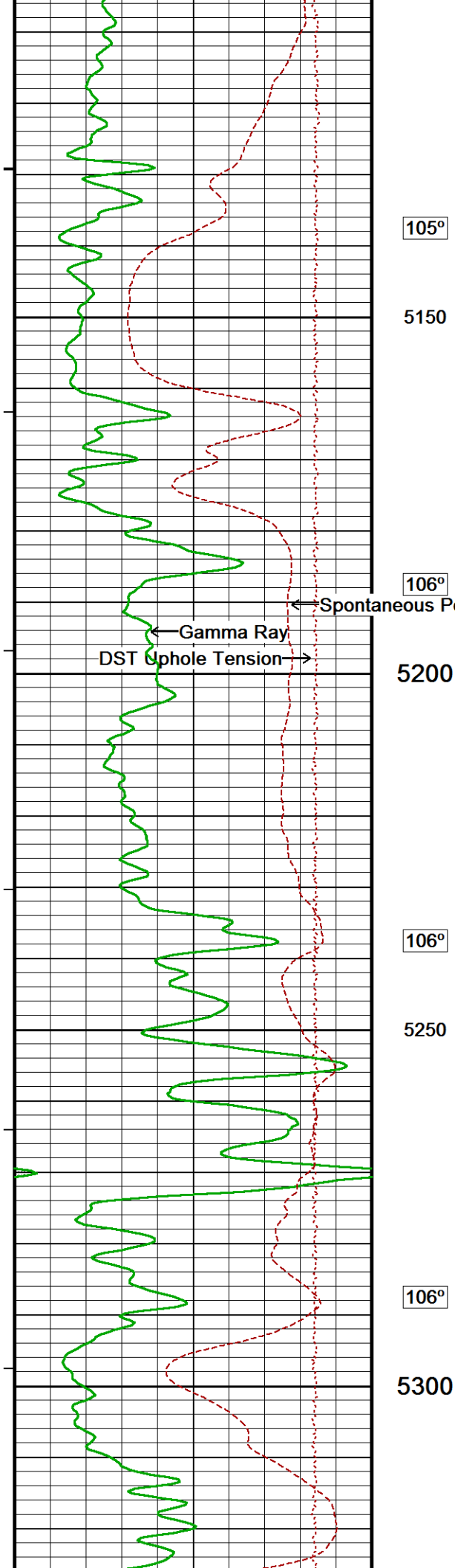


4450  
101°  
4500  
101°  
4550  
101°  
4600  
102°  
4650









105°

5150

106°

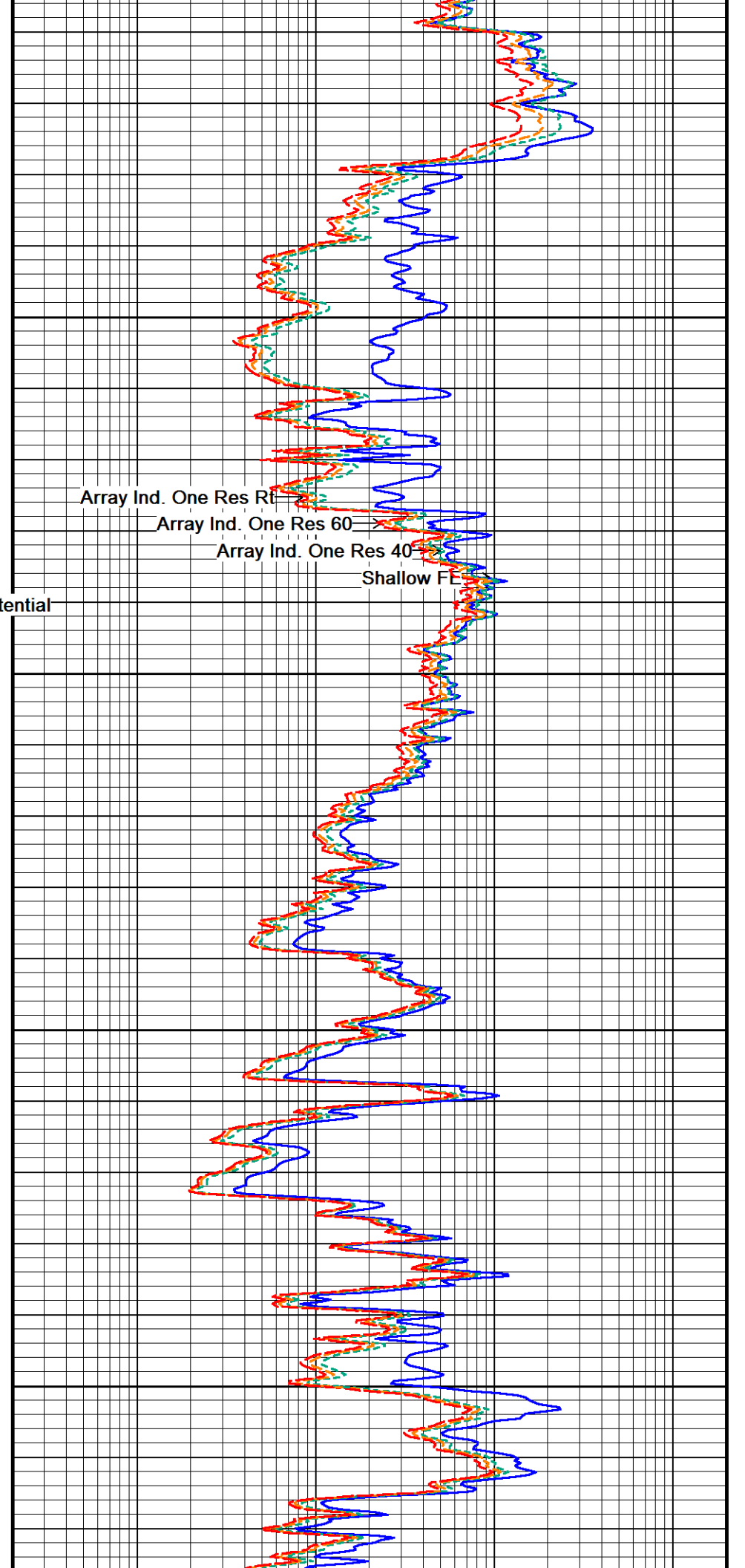
5200

106°

5250

106°

5300

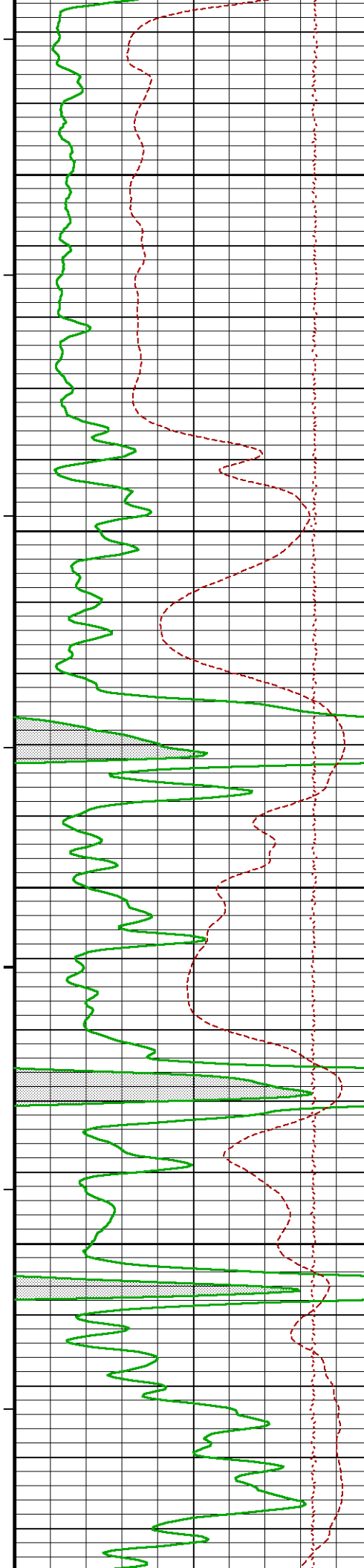


Array Ind. One Res Rt

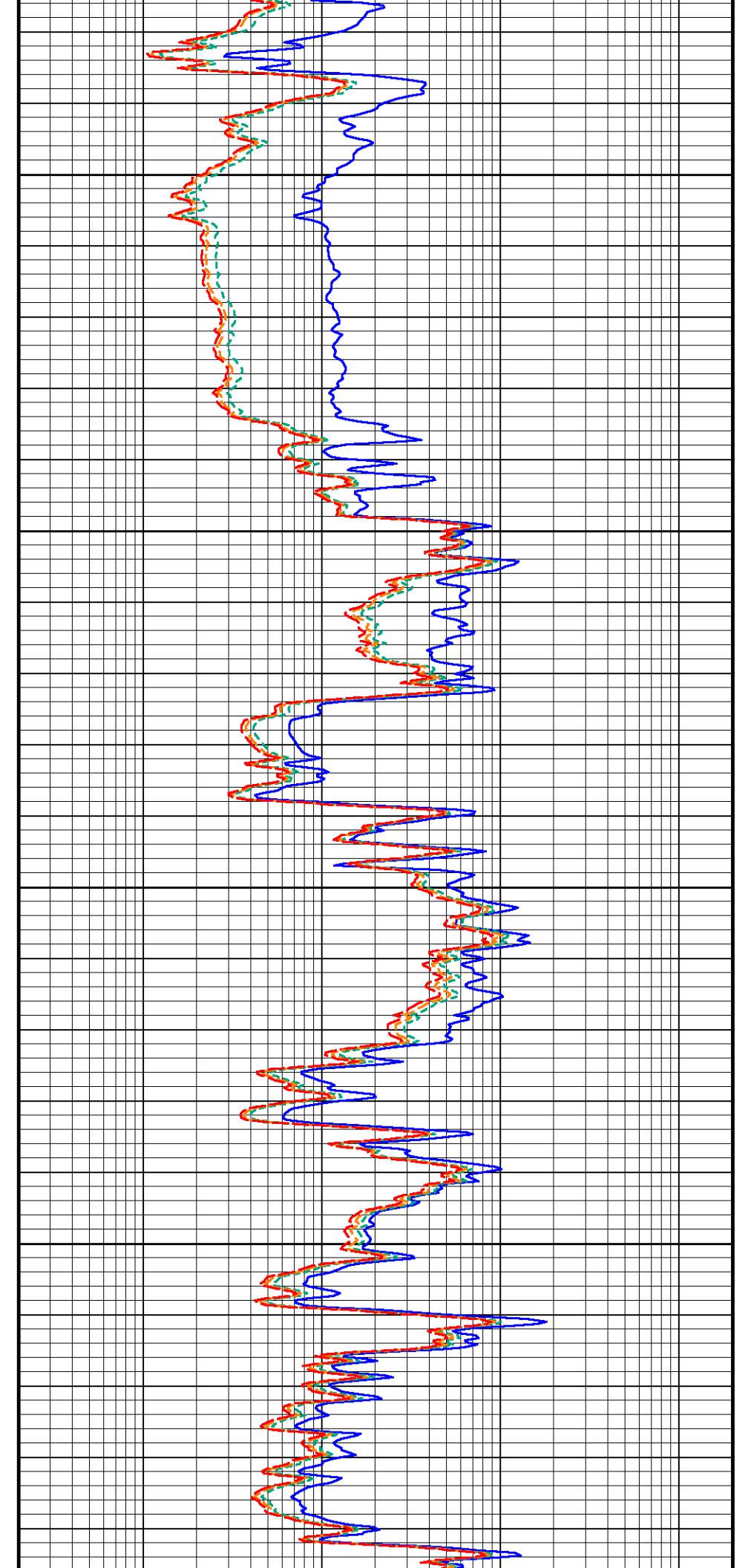
Array Ind. One Res 60

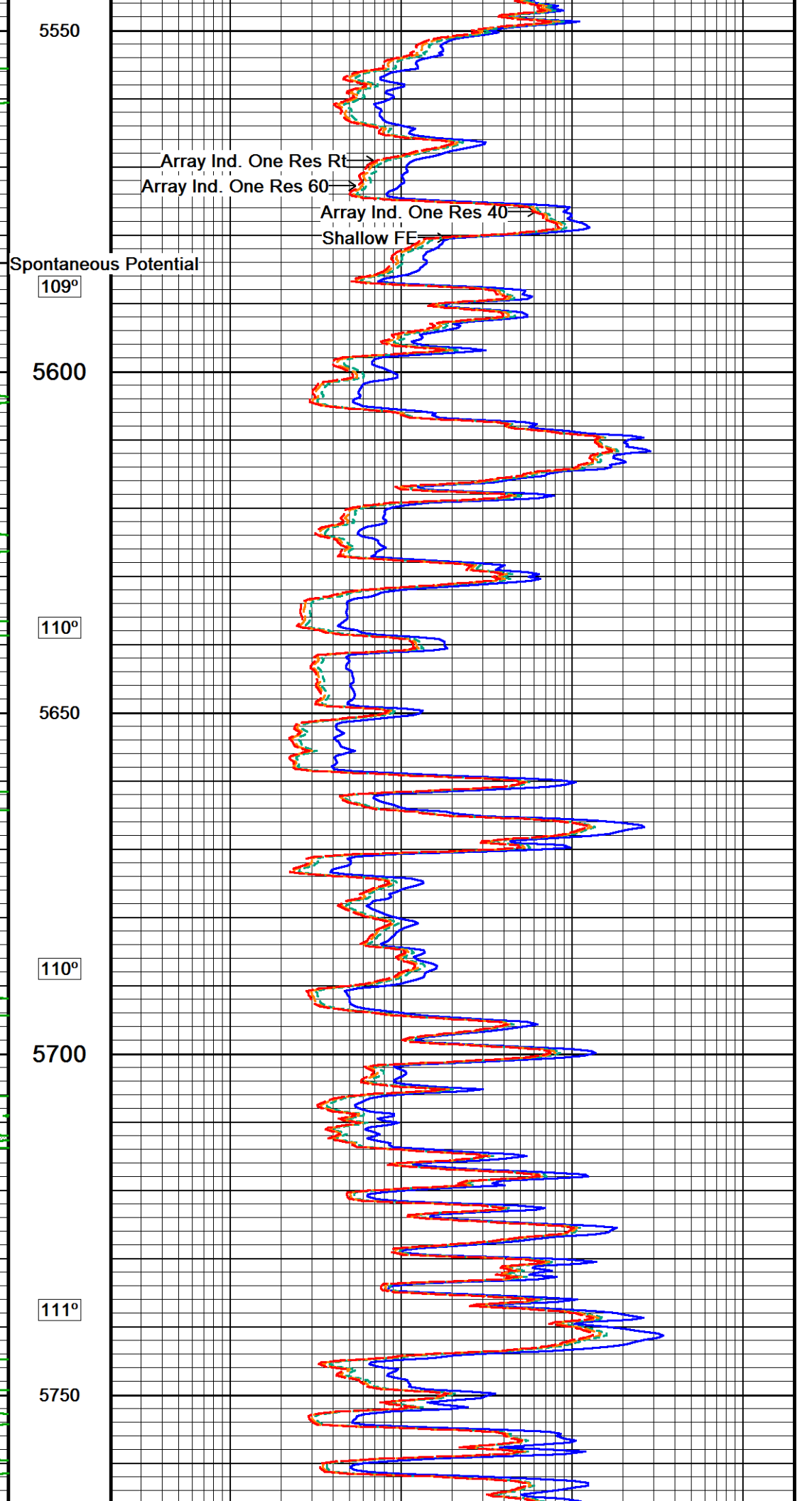
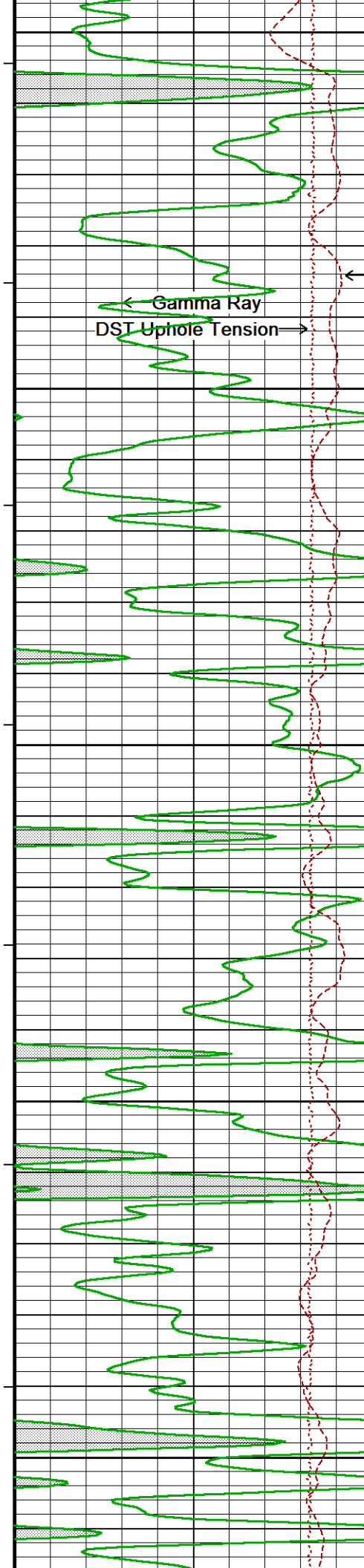
Array Ind. One Res 40

Shallow FE



107°  
5350  
107°  
5400  
108°  
5450  
108°  
5500  
108°





5550

Array Ind. One Res Rt

Array Ind. One Res 60

Array Ind. One Res 40

Shallow FF

Spontaneous Potential

109°

Gamma Ray

DST Uphole Tension

5600

110°

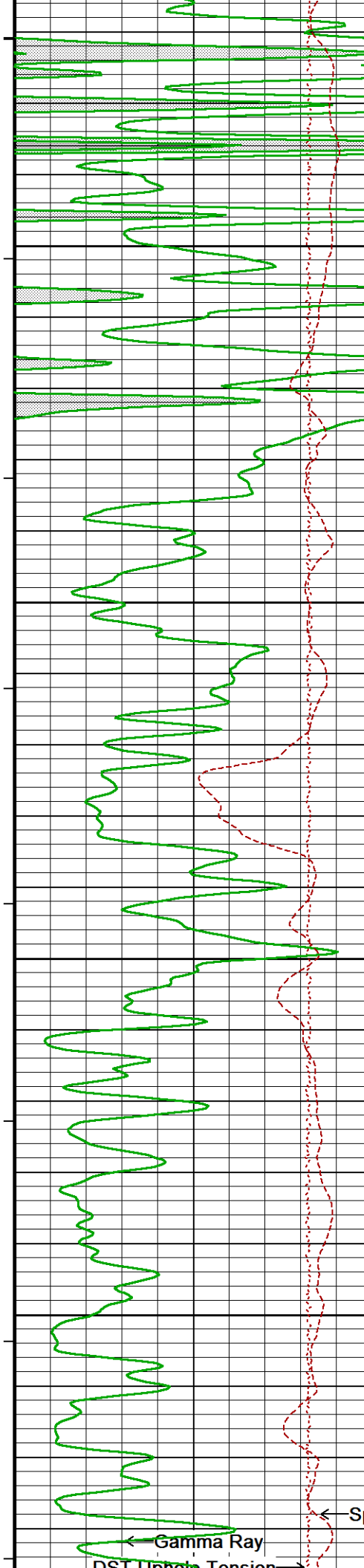
5650

110°

5700

111°

5750



112°

5800

112°

5850

112°

5900

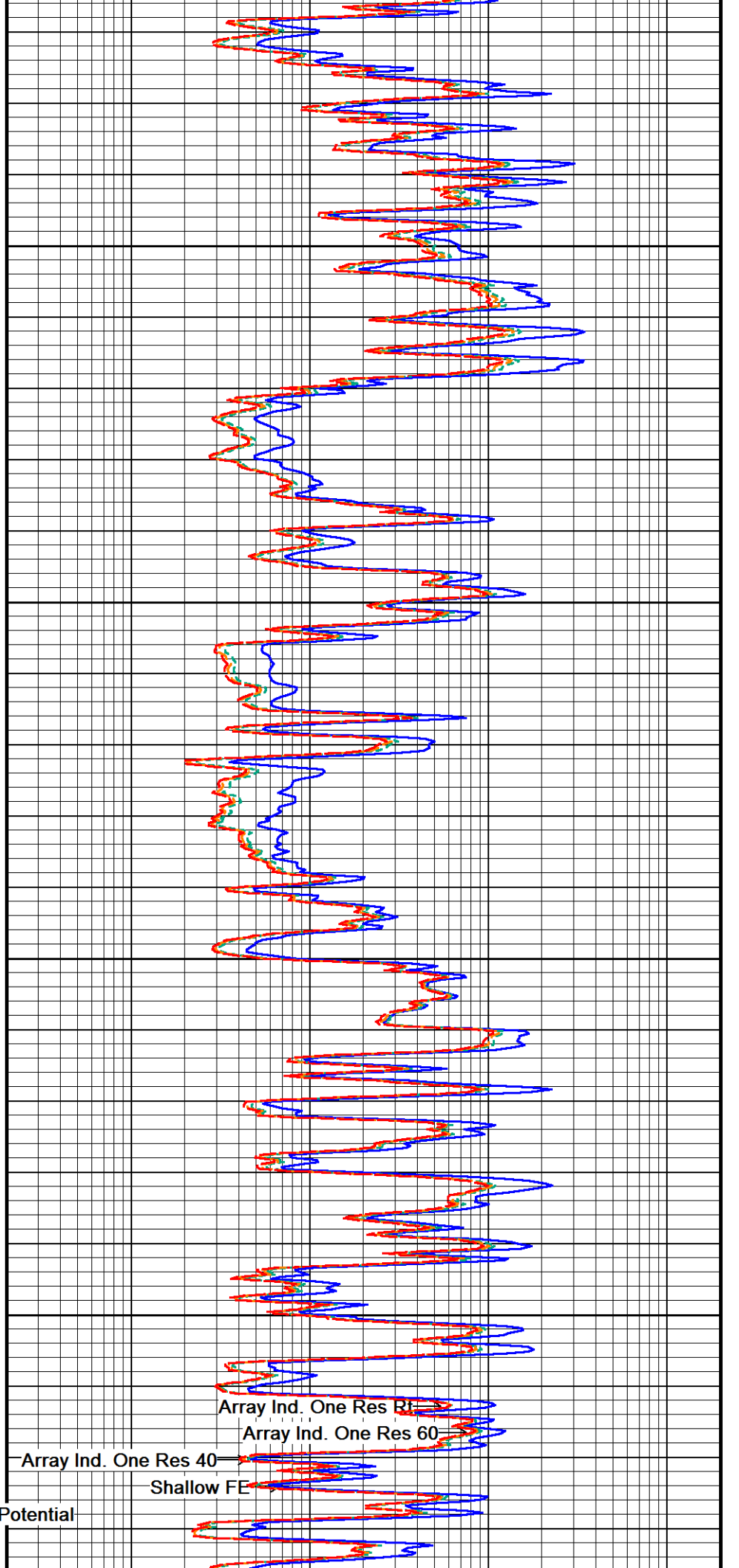
112°

5950

← Spontaneous Potential

← Gamma Ray

DST Update Tension →

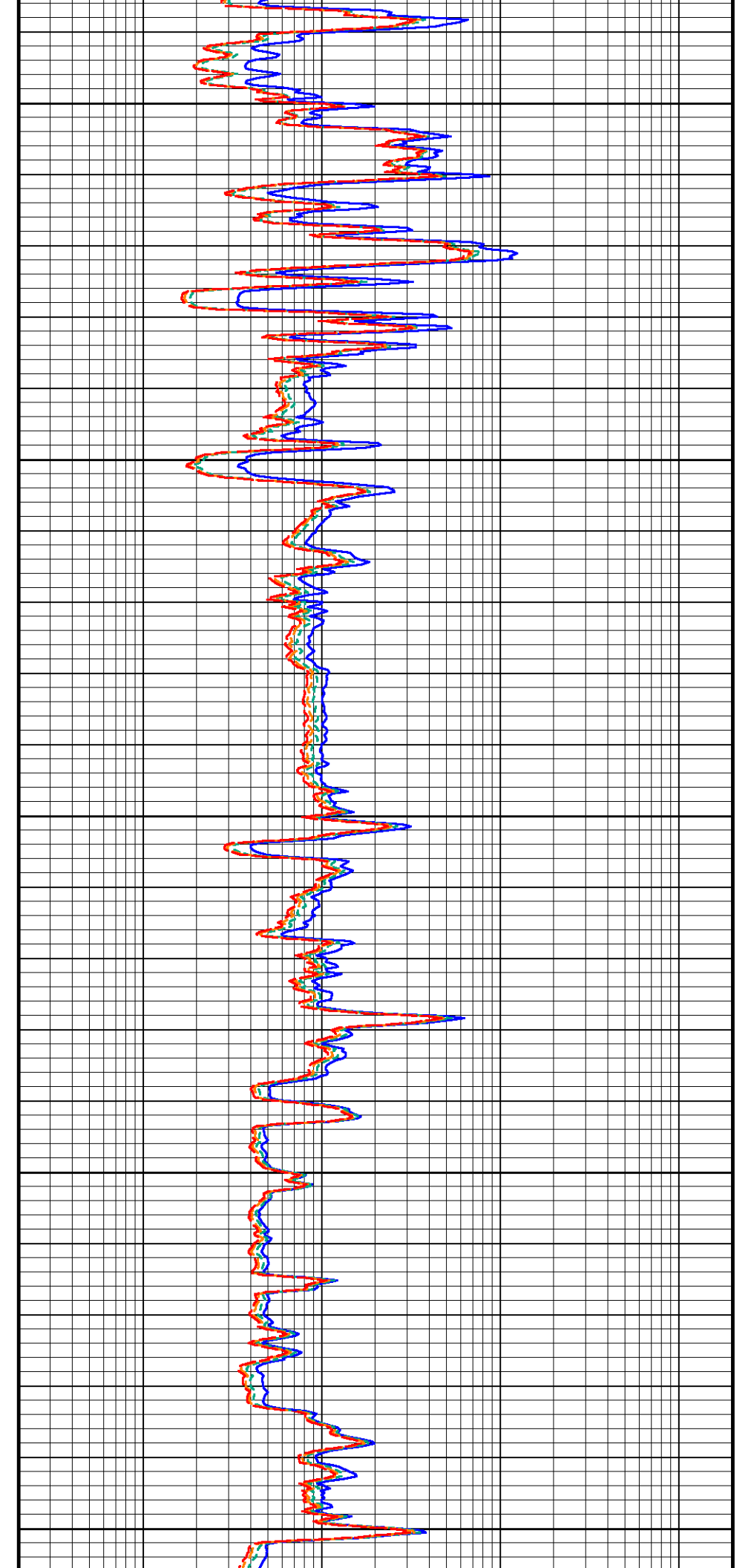
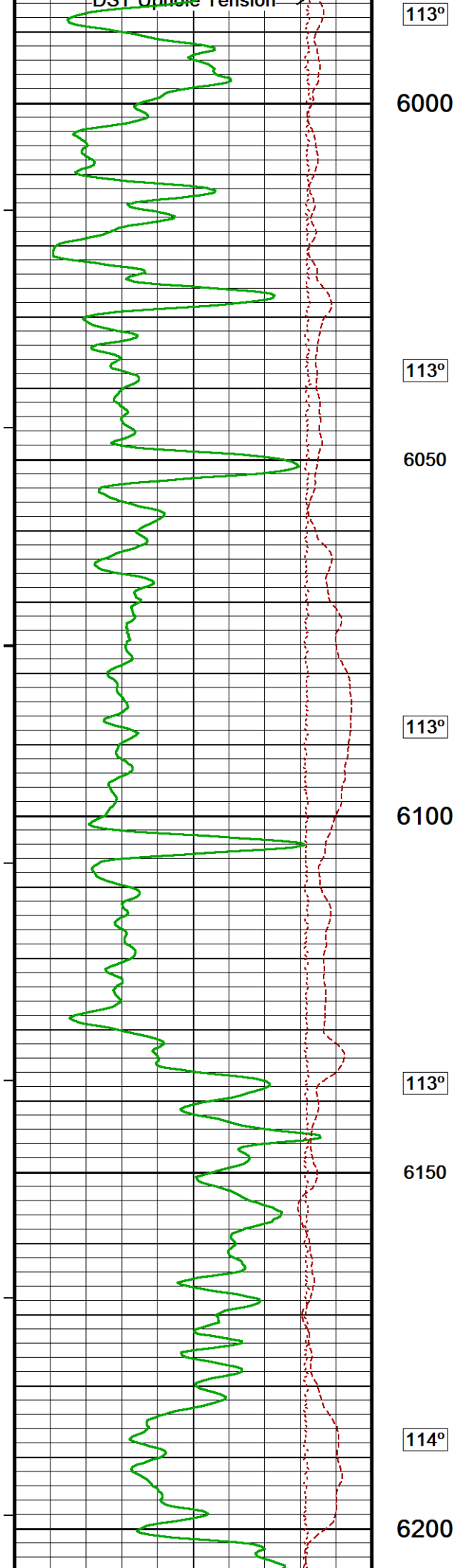


Array Ind. One Res 80 →

Array Ind. One Res 60 →

Array Ind. One Res 40 →

Shallow FE →



116°

6250

118°

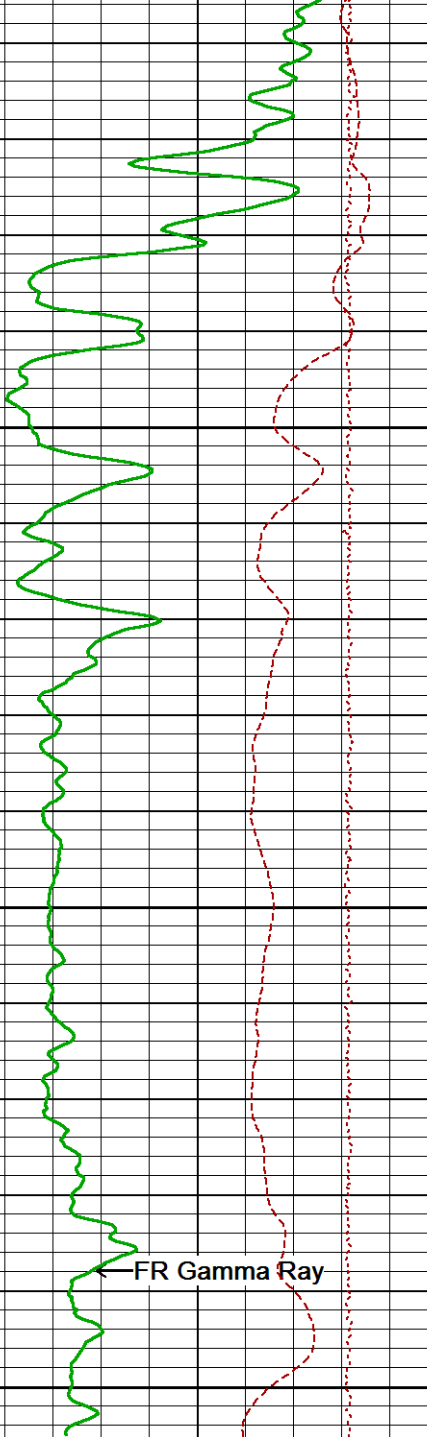
6300

118°

6350

6400

6412  
Depth  
in  
Feet

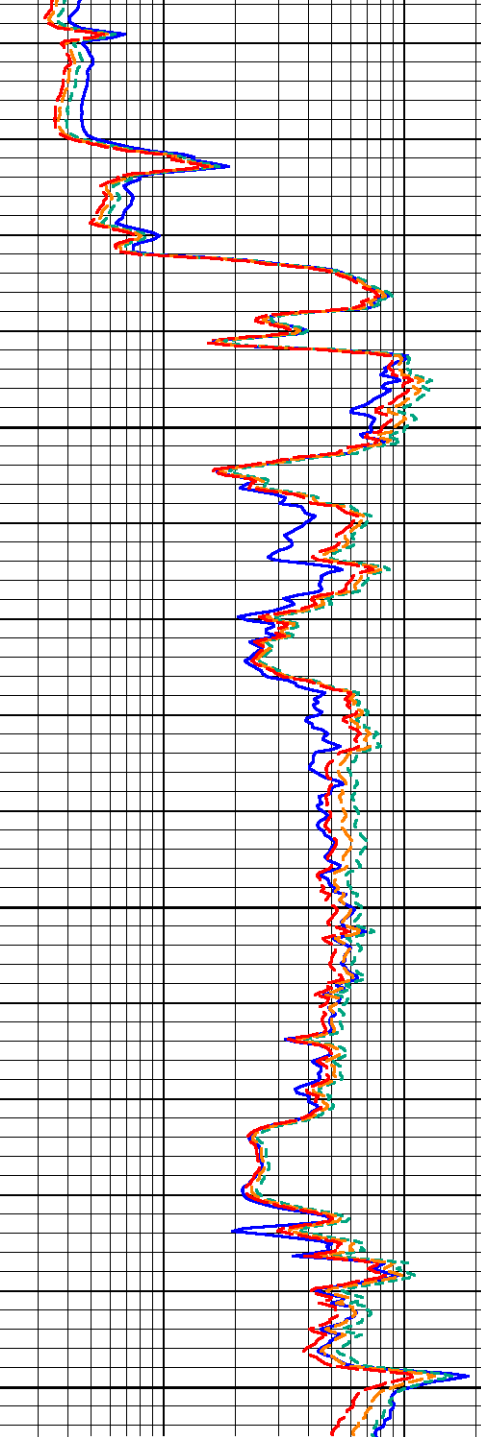


← Spontaneous Potential

DST Uphole Tension →

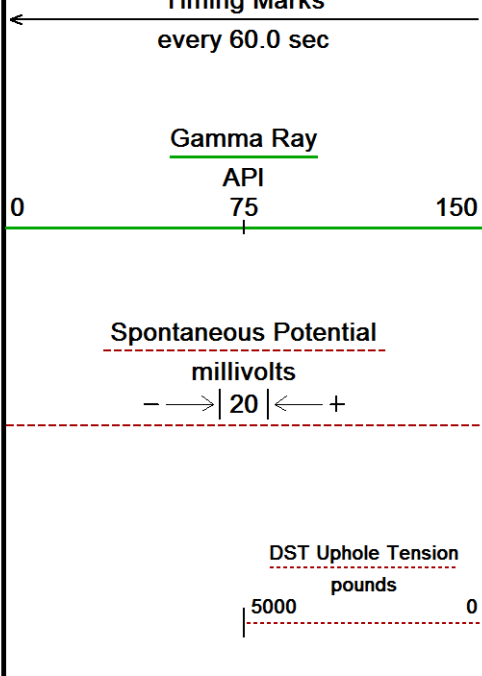
FR DST Uphole Tension ← FR Spontaneous Potential

Timing Marks



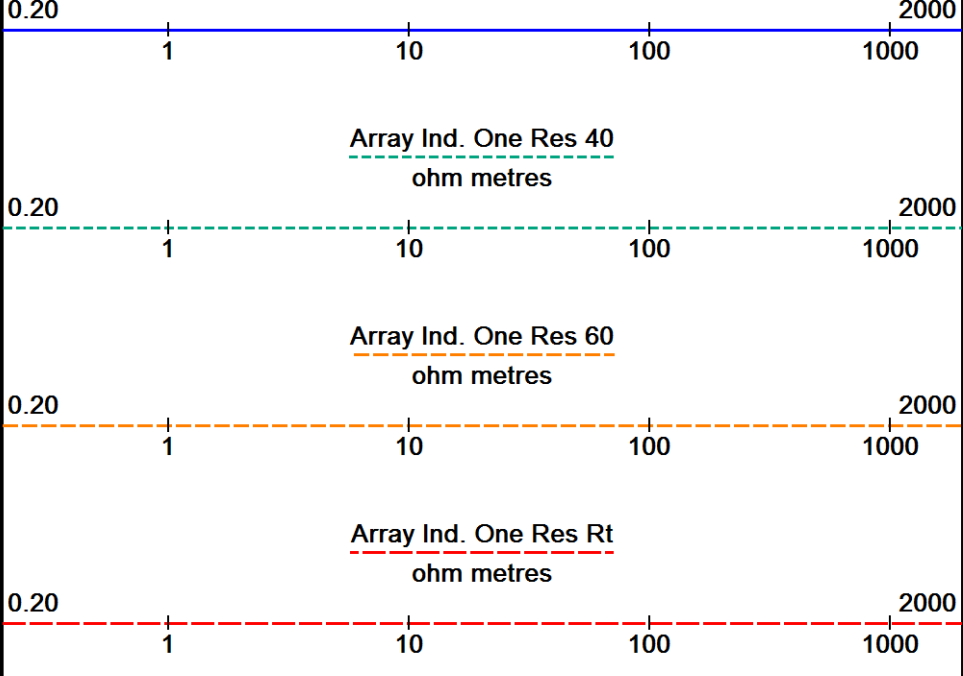
FR Array Ind. One Res Rt6040 →

Shallow FE  
ohm metres



Borehole  
Temp in  
deg F

Replay  
Scale  
1:240

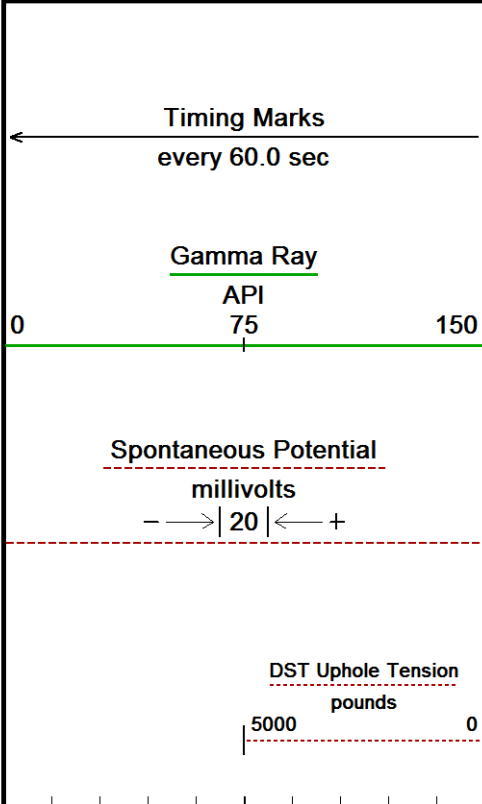


Depth Based Data - Maximum Sampling Increment 10.0cm  
 Plotted on 08-MAR-2011 15:39  
 Filename: C:\Users\Joe\AppData\Local\Temp\Weatherford PreView\0\O'BRIEN HULL #2-11\_006.dta  
 Recorded on 13-FEB-2011 18:15  
 System Versions: Logged with 11.03.2789 Processed with 11.03.2789 Plotted with 11.02.2164

5 INCH MAIN PASS

5 INCH REPEAT PASS

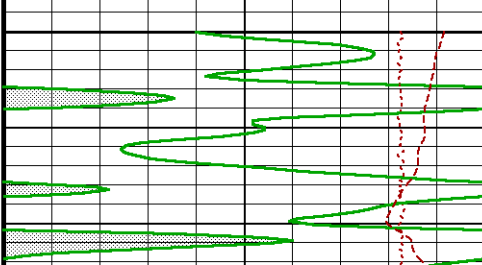
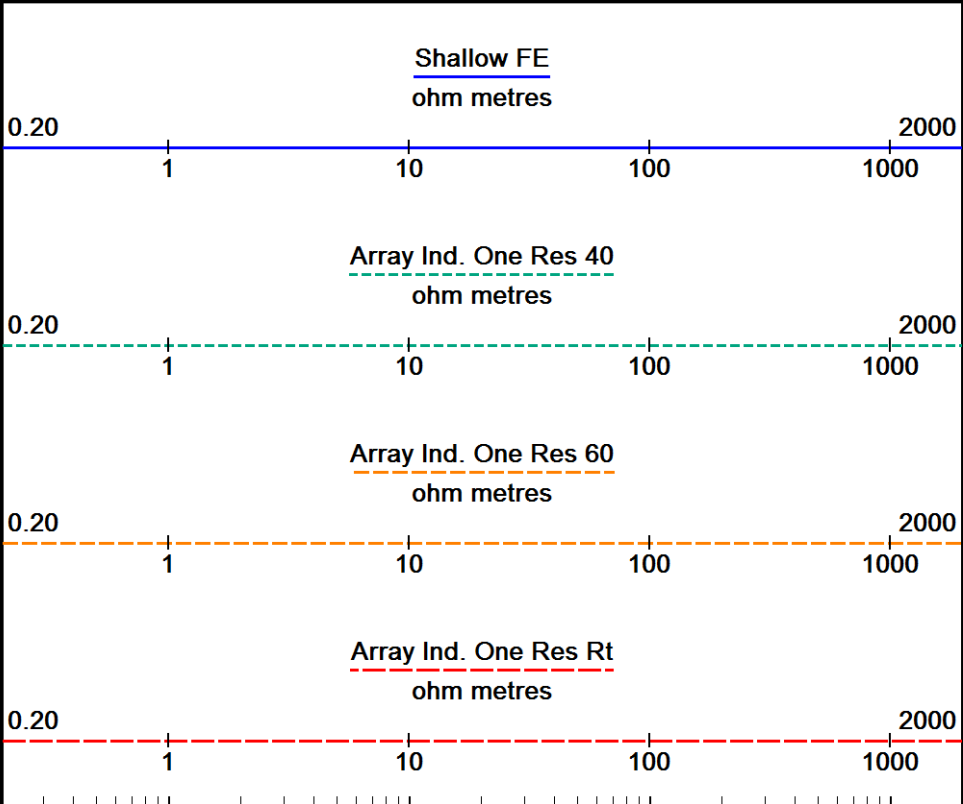
Depth Based Data - Maximum Sampling Increment 10.0cm  
 Plotted on 08-MAR-2011 15:39  
 Filename: C:\Users\Joe\AppData\Local\Temp\Weatherford PreView\0\O'BRIEN HULL #2-11\_001.dta  
 Recorded on 13-FEB-2011 16:44  
 System Versions: Logged with 11.03.2789 Plotted with 11.02.2164



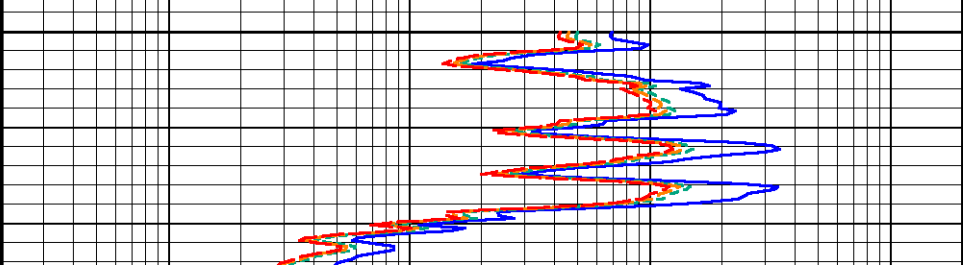
Depth  
in  
Feet

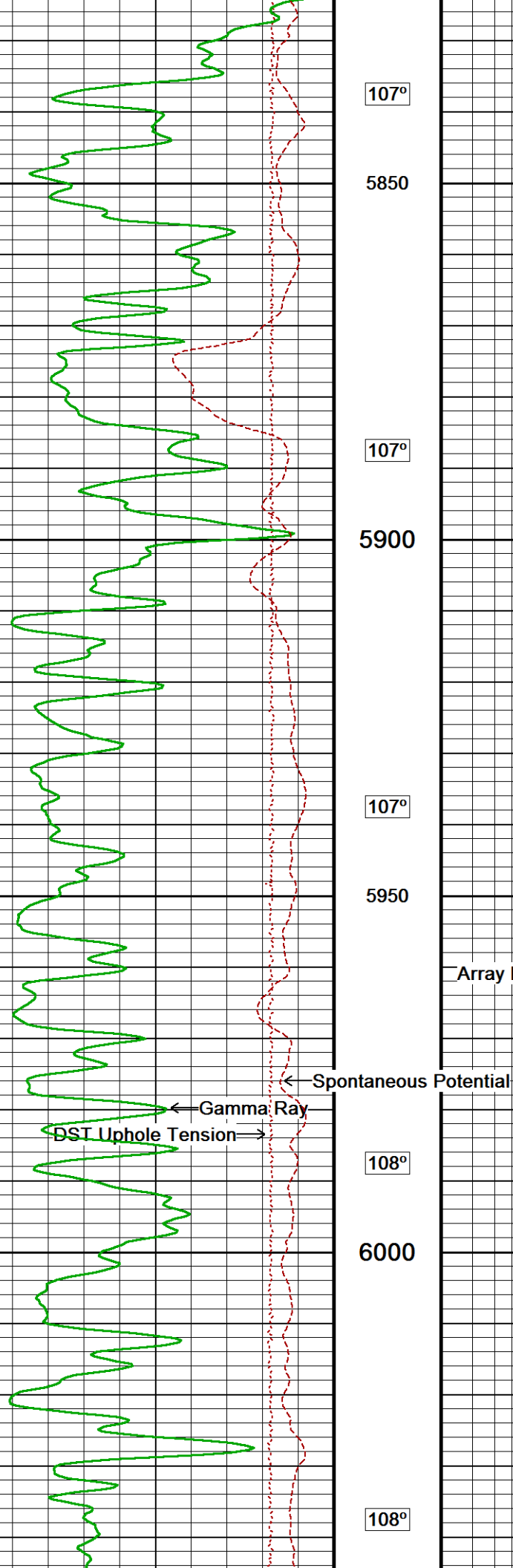
Borehole  
Temp in  
deg F

Replay  
Scale  
1:240

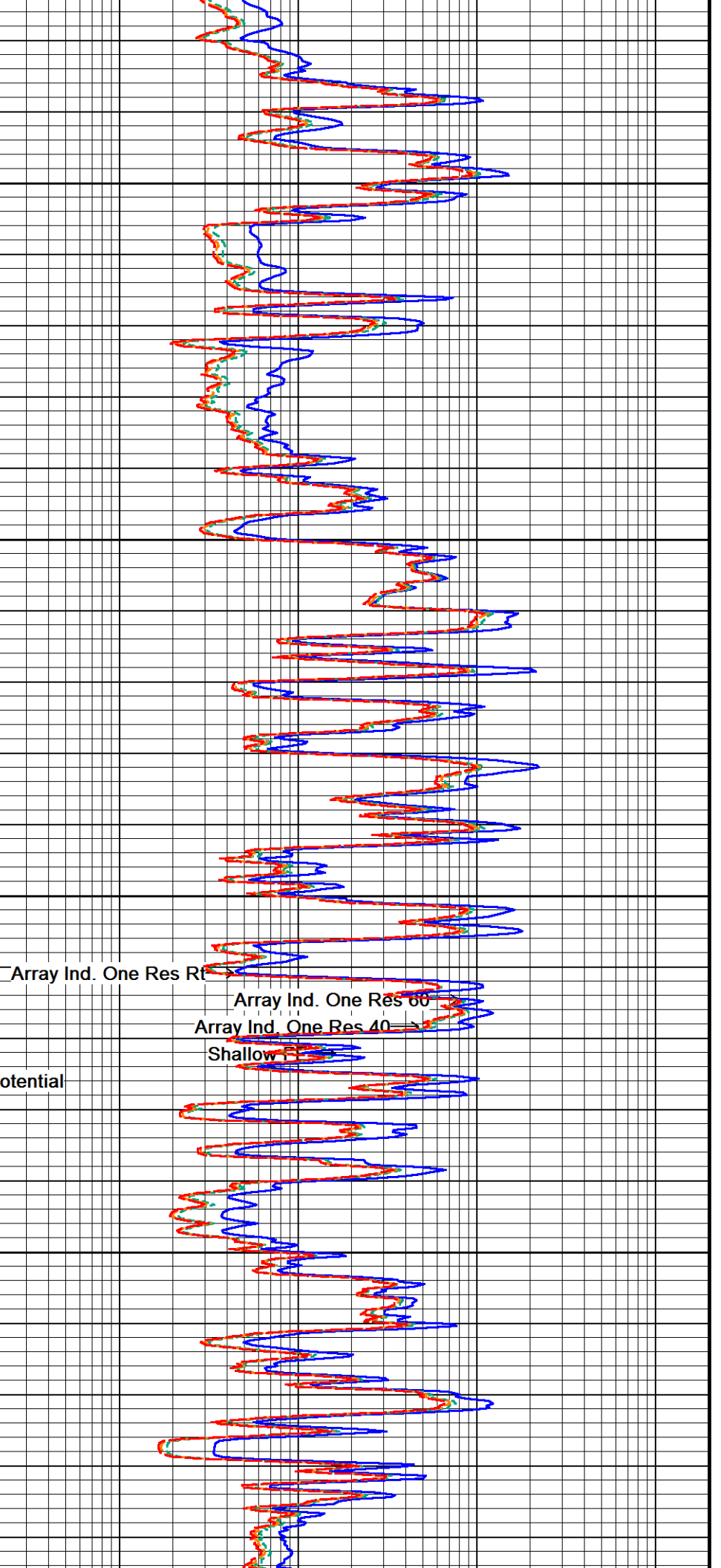


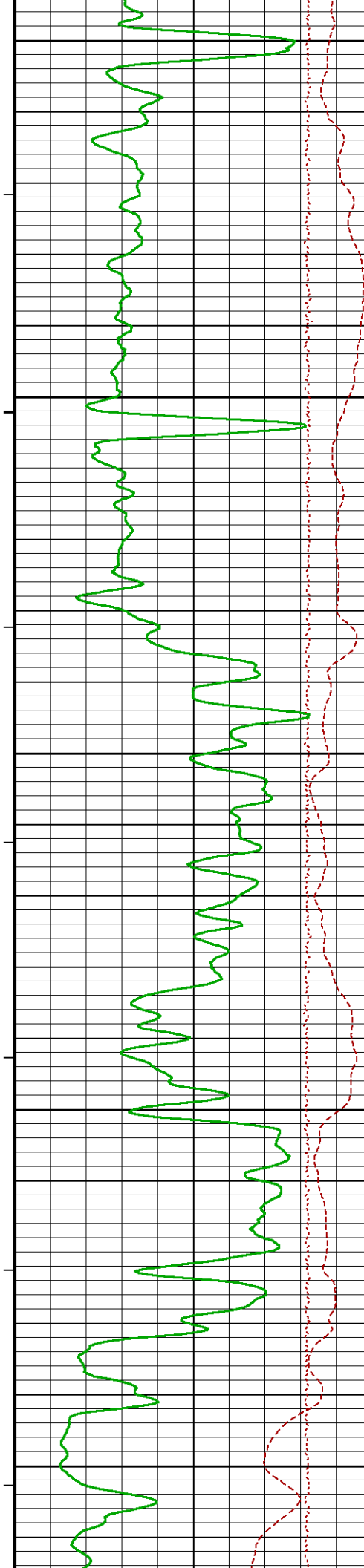
5800





107°  
5850  
107°  
5900  
107°  
5950  
108°  
6000  
108°





6050

108°

6100

108°

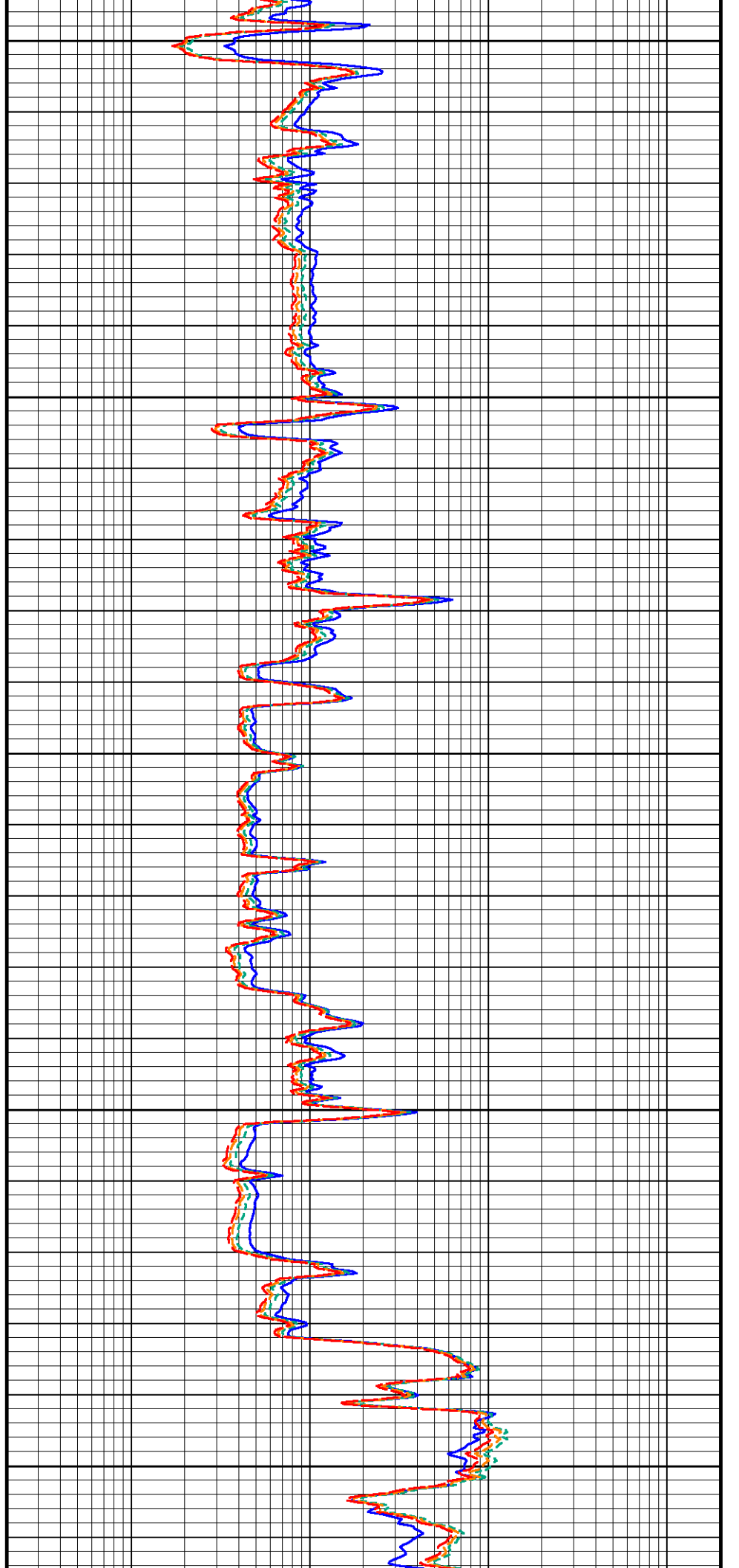
6150

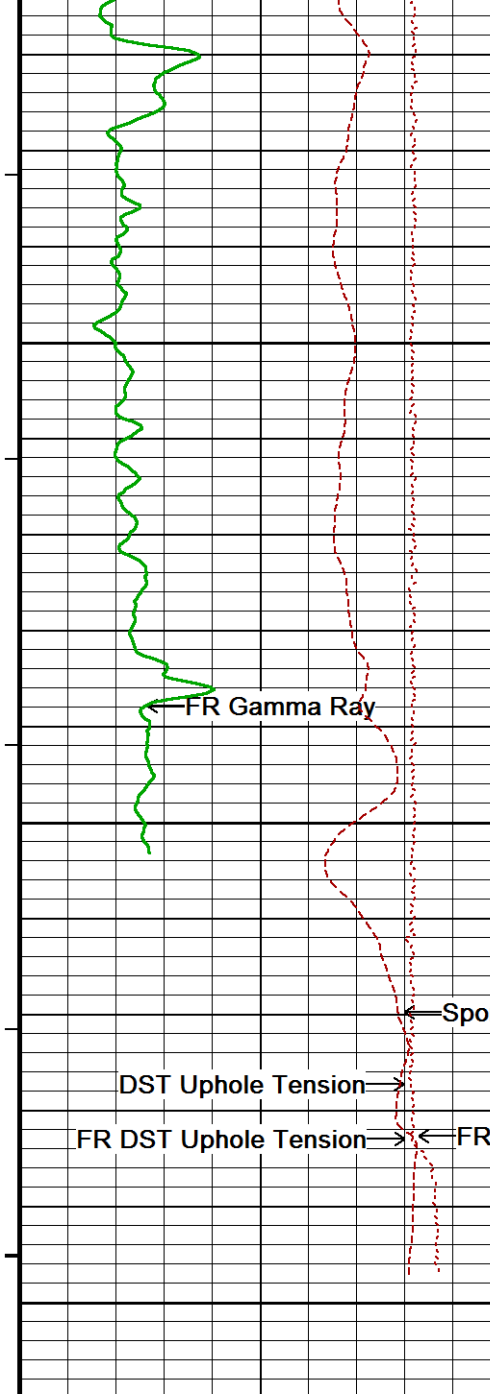
108°

6200

109°

6250





113°

6300

113°

6350

6400

6408

Depth in Feet

Borehole Temp in deg F

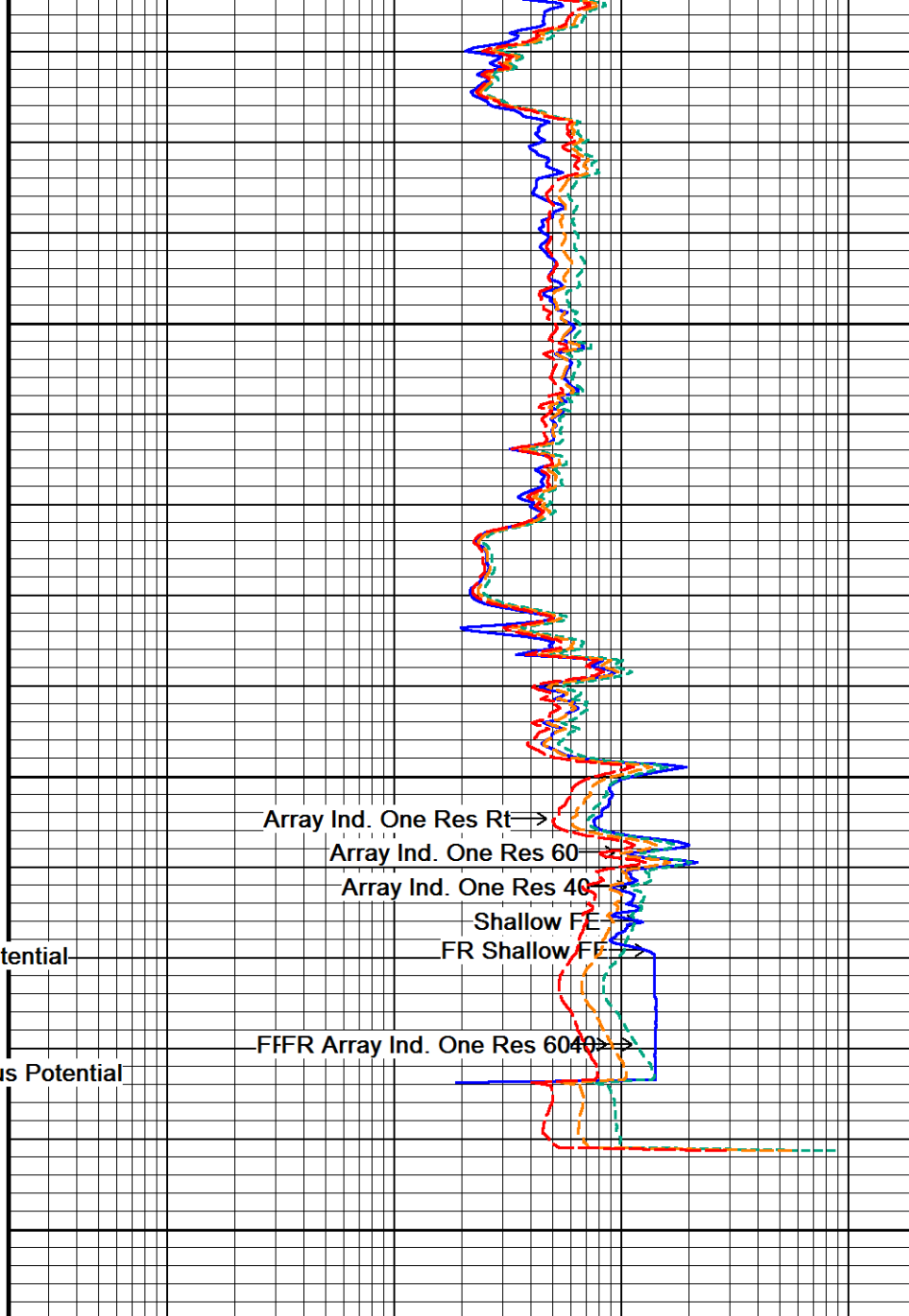
Replay

Timing Marks every 60.0 sec

Gamma Ray  
API  
0 75 150

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

DST Uphole Tension pounds



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 10.0cm Plotted on 08-MAR-2011 15:39  
 Filename: C:\Users\Joe\AppData\Local\Temp\Weatherford PreView\0\O'BRIEN HULL #2-11\_001.dta Recorded on 13-FEB-2011 16:44  
 System Versions: Logged with 11.03.2789 Plotted with 11.02.2164

↑ **5 INCH REPEAT PASS** ↑

### BEFORE SURVEY CALIBRATION

C:\Users\Joe\AppData\Local\Temp\Weatherford PreView\0\O'BRIEN HULL #2-11.dta

General Constants All 000 Last Edited on 13-FEB-2011,14:20

**General Parameters**  
 Mud Resistivity 1.050 ohm-metres  
 Mud Resistivity Temperature 73.000 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 Limestone Density Por.  
 Resistivity used Array Ind. One Res Rt  
 RWA Constant A 1.000  
 RWA Constant M 2.000

High Resolution Temperature Calibration MCG-C 84 Field Calibration on 24-JUN-2010,13:02

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

High Resolution Temperature Constants MCG-C 84 Last Edited on

Pre-filter Length 11

SP Calibration MCG-C 84 Field Calibration on 28-DEC-2010 11:28

	Measured	Calibrated (mV)
Reference 1	100.3	100.0
Reference 2	-99.7	-100.0

Gamma Calibration MCG-C 84 Field Calibration on 13-FEB-2011 11:17

	Measured	Calibrated (API)
Background	66	45
Calibrator (Gross)	1136	770
Calibrator (Net)	1070	725

Gamma Constants MCG-C 84 Last Edited on 13-FEB-2011,14:21

Gamma Calibrator Number grc38  
 Mud Density 1.10 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 9 Base Calibration on 17-JAN-2011 13:45  
Field Check on 13-FEB-2011 10:58

**Base Calibration**

Channel	Measured		Calibrated (ohm-m)	
	Resistor 1	Resistor 2	Resistor 1	Resistor 2
Micro Normal	12.1	59.8	2.6	12.8
Micro Inverse	15.6	78.1	1.7	8.4

Channel	Base Check (ohm-m)	Field Check (ohm-m)
Micro Normal	32.4	32.4
Micro Inverse	16.4	16.4

Micro Normal and Micro Inverse Constants MML-A 9

Last Edited on 13-FEB-2011,10:57

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 9

Base Calibration on 17-JAN-2011 13:36  
Field Calibration on 13-FEB-2011 11:05

Base Calibration		
Reading No	Measured	Calibrator Size (in)
1	14751	5.96
2	18323	7.98
3	21735	9.95
4	25522	11.91
5	0	0.00
6	N/A	N/A
Field Calibration		
	Measured Caliper (in)	Actual Caliper (in)
	6.06	5.98

Neutron Calibration MDN-A.B 65

Base Calibration on 17-JAN-2011 15:12  
Field Check on 13-FEB-2011 11:12

Base Calibration				
	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	3079	97	3714	110
Ratio	31.797		33.764	
Field Calibrator at Base			Calibrated (cps)	
			1654	2338
Ratio	0.708			
Field Check			Calibrated (cps)	
			1657	2354
Ratio	0.704			

Neutron Constants MDN-A.B 65

Last Edited on 13-FEB-2011,14:21

Neutron Source Id	757	
Neutron Jig Number	5824NE	
Epithermal Neutron	No	
Caliper Source for Processing	Density Caliper	
Stand-off	0.00	inches
Mud Density	1.10	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	MCG External Temperature	
Temperature	N/A	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 55

Base Calibration on 17-JAN-2011 13:58  
Field Check on 13-FEB-2011 10:56

Base Calibration		
	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	954.8	126.8
Base Check		281.8
Field Check		281.4

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 178

Field Calibration on 28-MAR-2010,00:50

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

High Resolution Temperature Constants MAI-A.A 178

Last Edited on

Pre-filter Length 11

Induction Calibration MAI-A.A 178

Base Calibration on 17-JAN-2011,15:37

Field Check on 13-FEB-2011 10:54

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	11.9	3762.7
2	0.0	0.0	29.6	3466.5
3	0.0	0.0	27.1	3015.0
4	0.0	0.0	18.7	2063.8
Deep	0.0	0.0	15.7	1995.9
Medium	0.0	0.0	40.2	3957.5
Shallow	0.0	0.0	45.5	5080.8

Array Temperature 0.0 67.5 Deg F

Induction Constants MAI-A.A 178

Last Edited on 13-FEB-2011,14:22

Induction Model	RtAP-WBM		
Caliper for Borehole Corr.	Density Caliper		
Hole Size for Borehole Correction	N/A	inches	
Tool Centred	No		
Stand-off Type	Fins		
Stand-off	0.50	inches	
Number of Fins on Stand-off	8.0000		
Stand-off Fin Angle	45.00	degrees	
Stand-off Fin Width	0.5000	inches	
Borehole Corr. Rm Source	Temperature Corr		
Temp. for Rm Corr.	MCG External Temperature		
Squasher Start	0.0020	mhos/metre	
Squasher Offset	N/A	mhos/metre	

Borehole Normalisation

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

Calibration Site Corrections

Channel 1	0.00	mmhos/metre
Channel 2	0.00	mmhos/metre
Channel 3	0.00	mmhos/metre

Channel 4 0.00 mmhos/metre

**Apparent Porosity and Water Saturation Constants**

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

**Caliper Calibration MPD-B 65**

Base Calibration on 17-JAN-2011 14:40  
 Field Calibration on 13-FEB-2011 10:57

**Base Calibration**

Reading No	Measured	Calibrator Size (in)
1	12872	4.01
2	21339	5.96
3	30048	7.98
4	38622	9.95
5	47408	11.91
6	N/A	N/A

**Field Calibration**

Measured Caliper (in)	Actual Caliper (in)
5.96	5.98

**Photo Density Calibration MPD-B 65**

Base Calibration on 17-JAN-2011 14:55  
 Field Check on 13-FEB-2011 11:04

**Density Calibration**

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	50201	24995	59556	30836
Reference 2	20201	1952	24941	2541

Field Check at Base  
 645.0 771.4

Field Check  
 643.2 771.8

**PE Calibration**

Base Calibration	WS	Measured		Calibrated Ratio
		WH	Ratio	
Background	117	570		
Reference 1	19746	50081	0.396	0.371
Reference 2	5656	20120	0.283	0.272

Field Check at Base  
 117.0 570.5

Field Check  
 117.2 568.8

**Density Constants MPD-B 65**

Last Edited on 13-FEB-2011,14:21

Density Source Id 254  
 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

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 HULL #2-11.dta

Compact Comms Gamma  
MCG-C 84 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

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

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

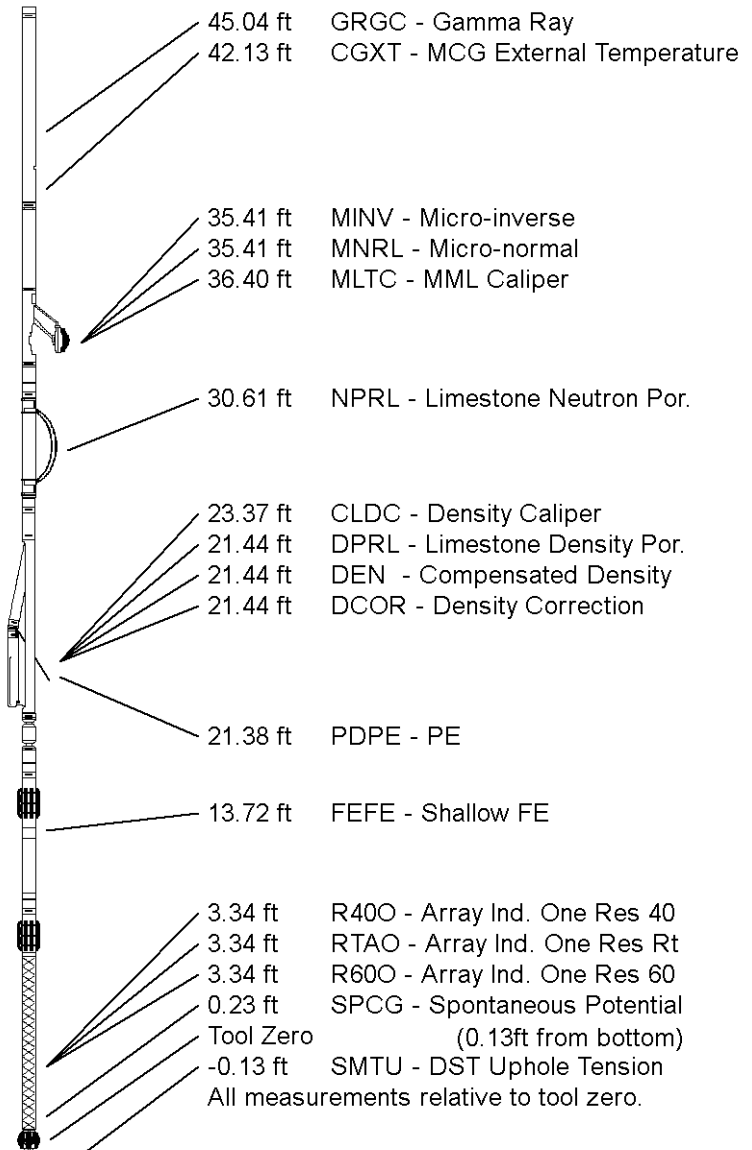
Compact Density/Caliper  
MPD-B 65 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

SKJ-D.A Compact Knuckle Joint  
SKJ-D.A 37 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

Compact Focussed Electric  
MFE-A.A 55 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: 50.32 ft Weight: 407.9 lb




COMPANY	O'BRIEN ENERGY RESOURCES CORP.
WELL	HULL #2-11
FIELD	ADAMS RANCH
PROVINCE/COUNTY	MEADE
COUNTRY/STATE	U.S.A. / KANSAS

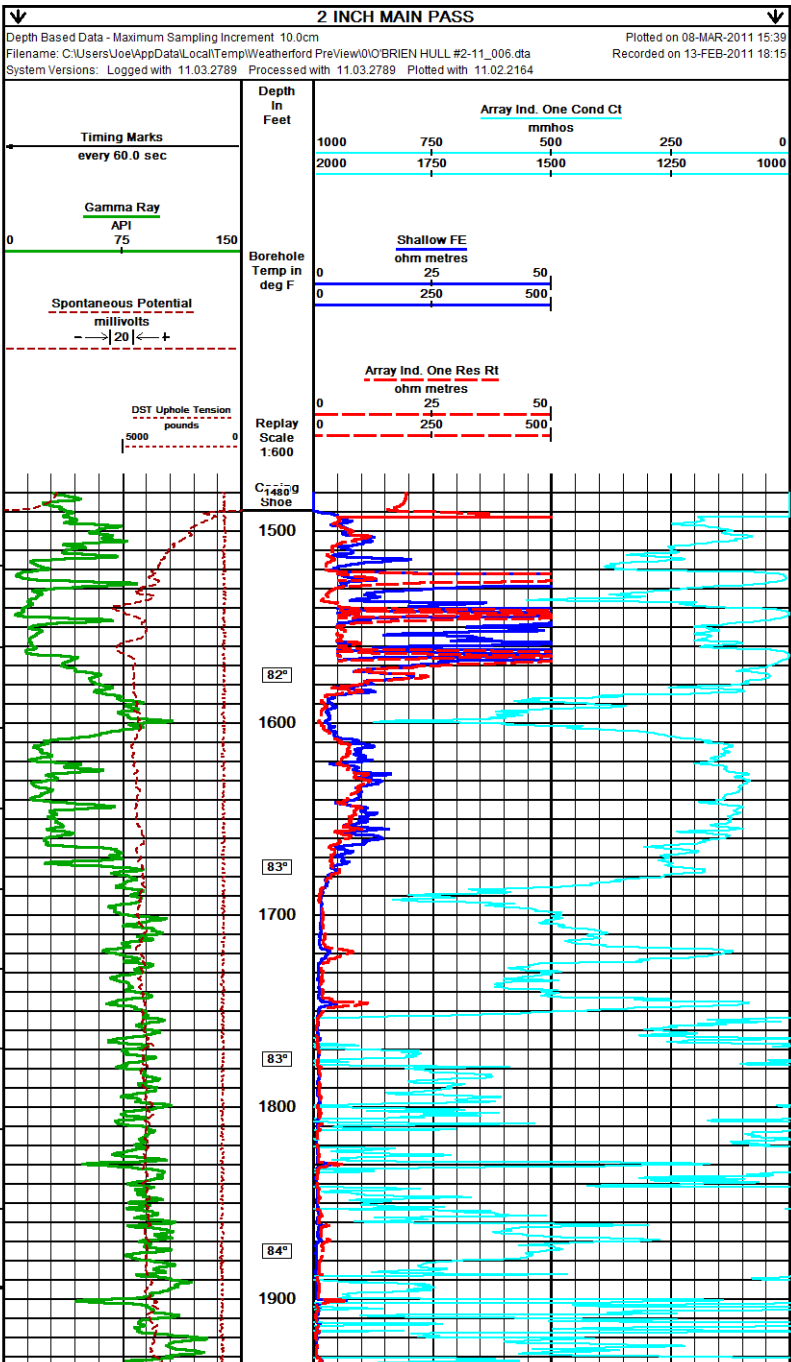
Elevation Kelly Bushing	2680.00	feet	First Reading	6380.00	feet
Elevation Drill Floor	2678.00	feet	Depth Driller	6387.00	feet
Elevation Ground Level	2668.00	feet	Depth Logger	6383.00	feet

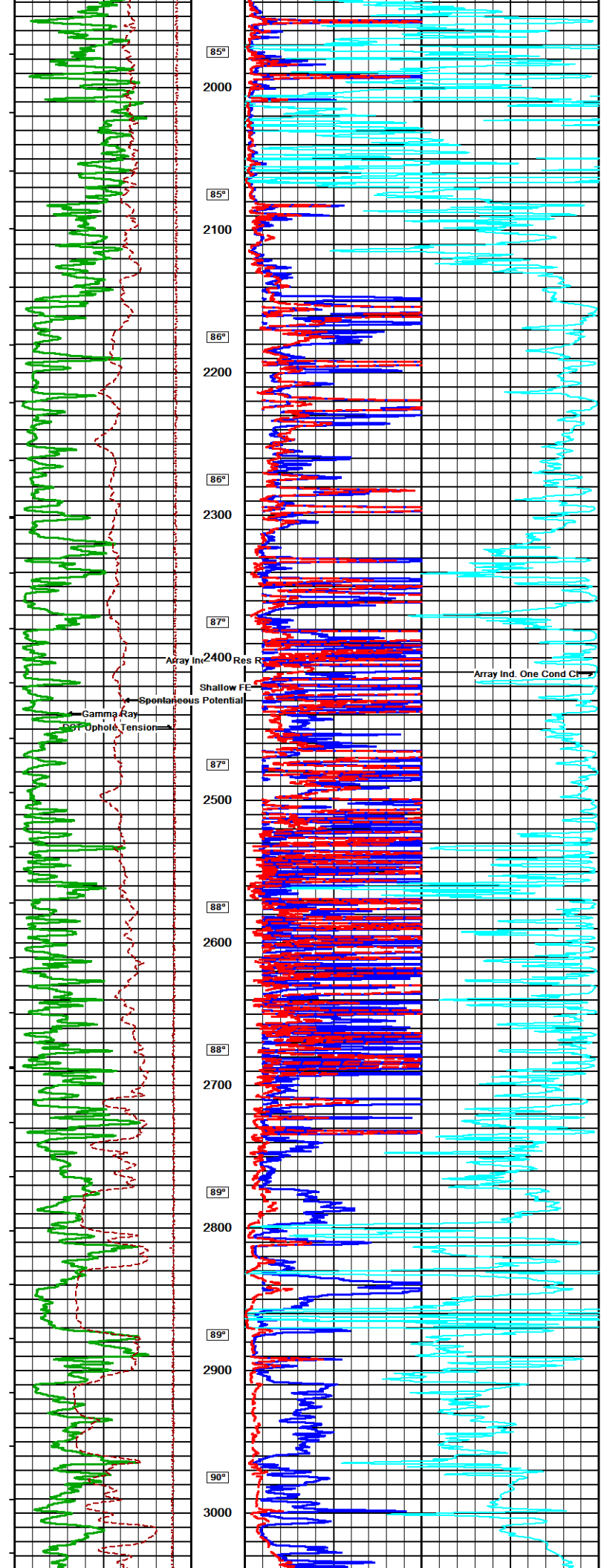


ARRAY INDUCTION



<b>Weatherford®</b>		<b>ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG</b>	
<b>COMPANY:</b> O'BRIEN ENERGY RESOURCES CORP. <b>WELL:</b> HULL #2-11 <b>FIELD:</b> ADAMS RANCH <b>PROVINCE/COUNTY:</b> MEADE U.S.A. / KANSAS <b>COUNTRY/STATE:</b> U.S.A. / KANSAS <b>LOCATION:</b> 660' FMI & 1650' FEL		<b>LOG MEASURED FROM:</b> KB @ 12 FEET ABOVE PERMANENT DATUM <b>DRILLING MEASURED FROM:</b> KB <b>DATE:</b> 13-FEB-2011 <b>LOG NUMBER:</b> 15-119-21289 <b>LOG TYPE:</b> 3AS <b>LOG DATE:</b> 30W <b>LOG TIME:</b> 11P <b>LOG TIME:</b> 11P <b>LOG TIME:</b> 11P	
<b>Run Number:</b> ONE <b>Depth Driller:</b> 6387.00 feet <b>Depth Logger:</b> 6383.00 feet <b>First Reading:</b> 6380.00 feet <b>Last Reading:</b> 1489.00 feet <b>Casing Driller:</b> 1489.00 feet		<b>Bit Size:</b> 7.875 inches <b>Hole Fluid Type:</b> CHEMICAL <b>Density/Viscosity:</b> 9.20 lb/USG <b>PH/Fluid Loss:</b> 10.50 <b>Sample Source:</b> FLOWLINE <b>Rim @ Measured Temp:</b> 106 @ 73.0 ohm-m <b>Rim @ Measured Temp:</b> 0.84 @ 73.0 ohm-m <b>Rim @ Measured Temp:</b> 1.26 @ 73.0 ohm-m <b>Source Rim/ Rmic:</b> CALC <b>Rim @ BHT:</b> 0.65 @ 118.0 ohm-m <b>Time Since Circulation:</b> 5 HOURS <b>Max Recorded Temp:</b> 118.00 deg F <b>Equipment Name:</b> COMIPACT <b>Equipment / Base:</b> LUB <b>Recorded By:</b> L. SCOTT <b>Witnessed By:</b> ROGER PEARSON <b>LOG # / JOB#:</b> 3628097	
<b>Estimators:</b> KB 2590.00 GF 2578.00 GL 2668.00			





85°

2000

85°

2100

86°

2200

86°

2300

87°

2400

87°

2500

88°

2600

88°

2700

89°

2800

89°

2900

90°

3000

Array Ind. Res R

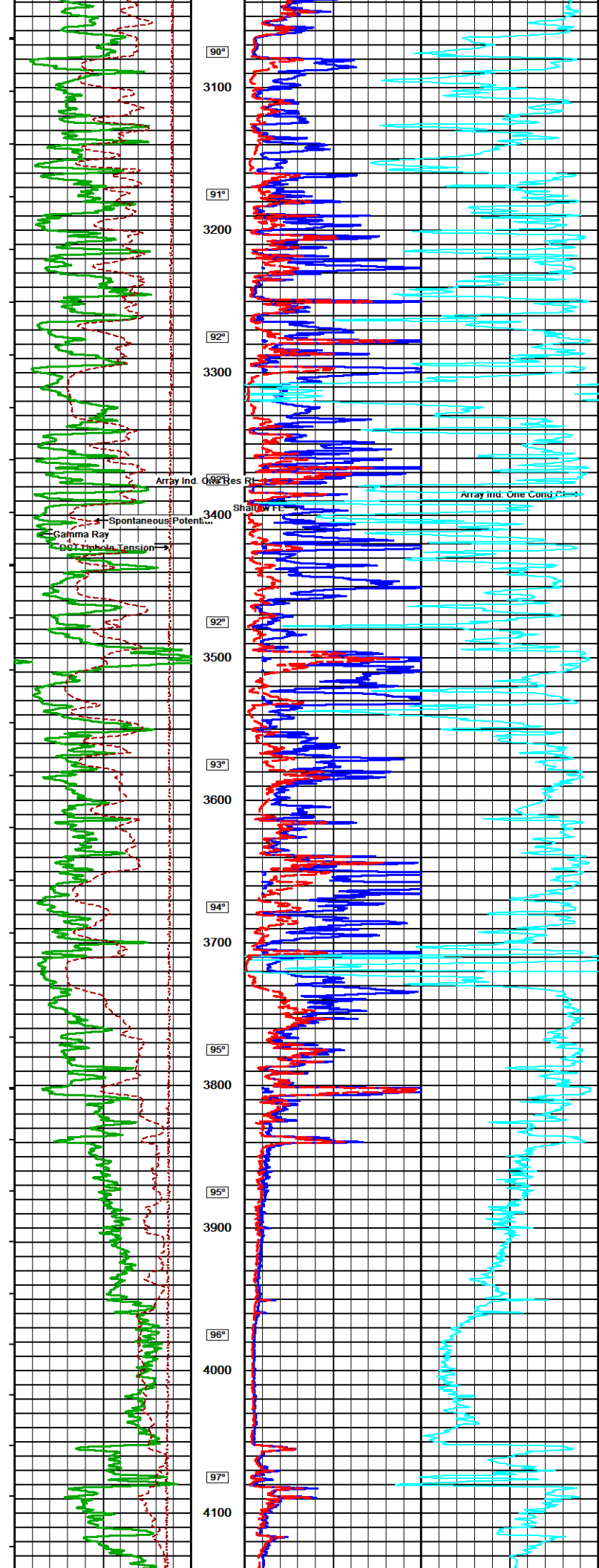
Shallow FE

Spontaneous Potential

Gamma Ray

Pore Pressure

Array Ind. One Cond Ch



Array Ind. Bes R...

Array Ind. One Cond. C...

Shallow FE

Spontaneous Potent...

Gamma Ray

Array Ind. One Cond. C...

90°

91°

92°

92°

92°

93°

94°

95°

95°

96°

97°

3100

3200

3300

3400

3500

3600

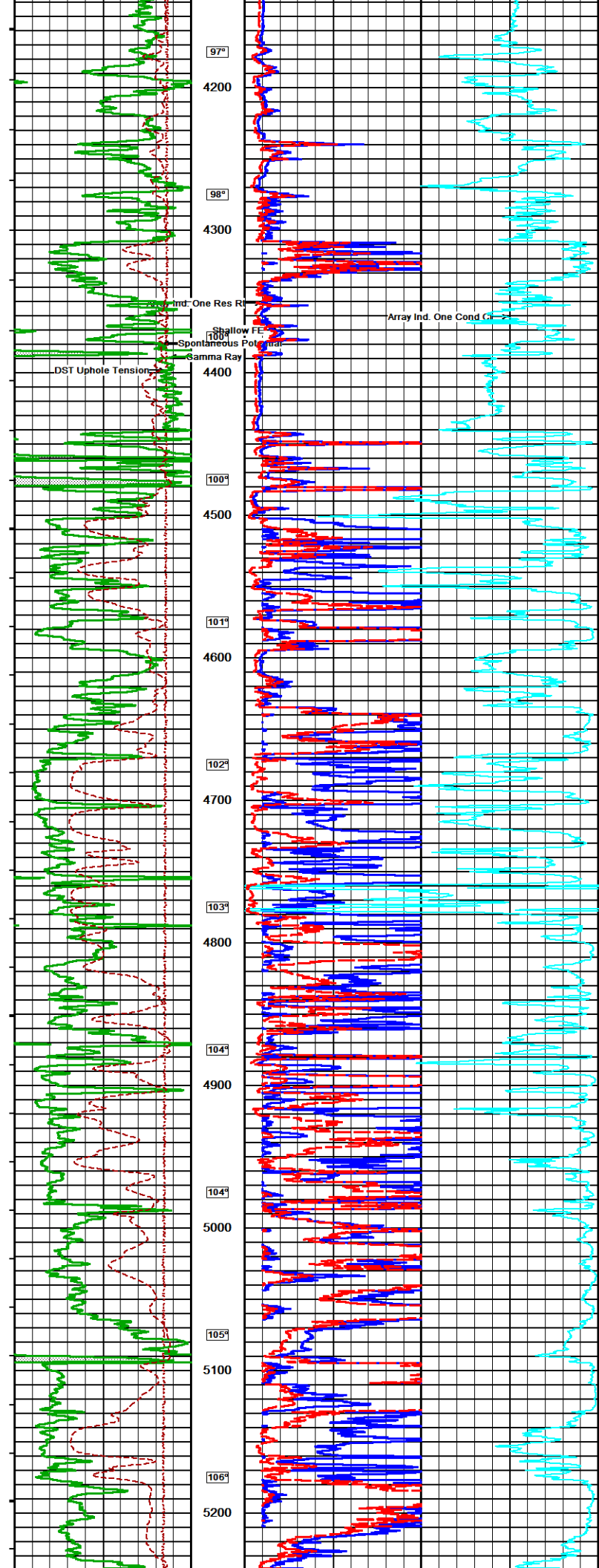
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3800

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4000

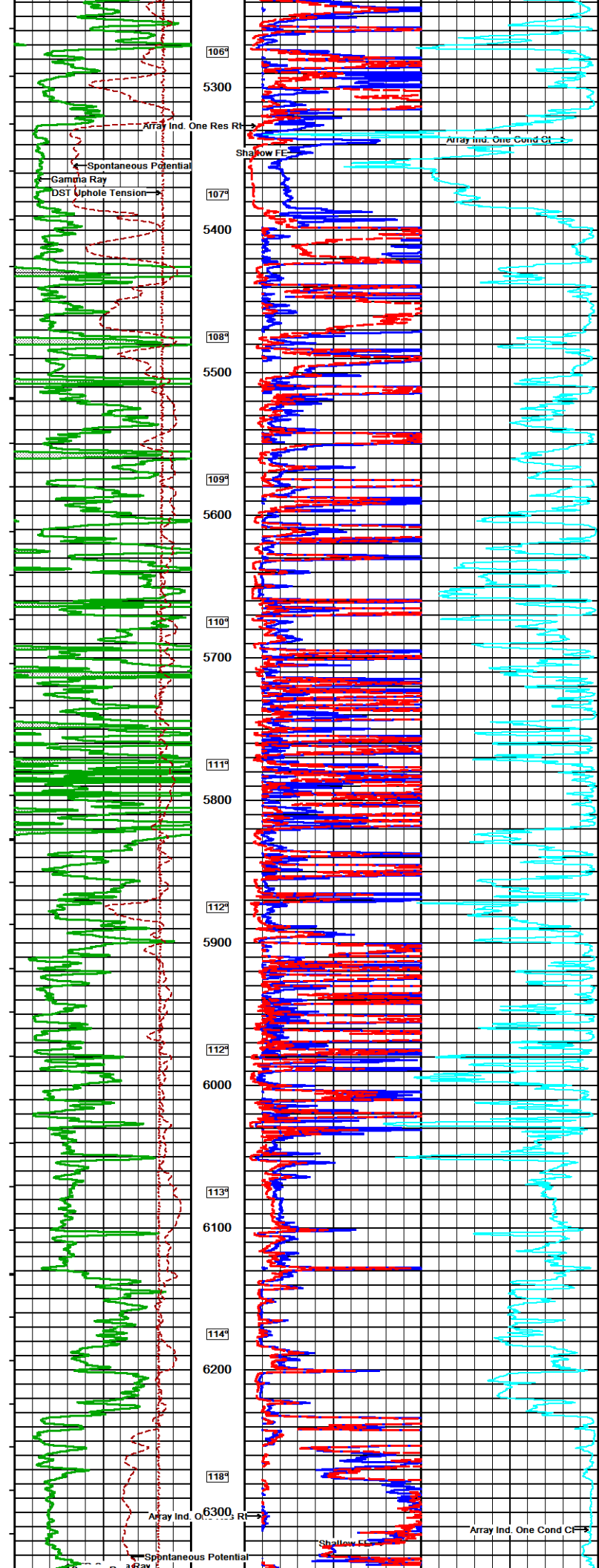
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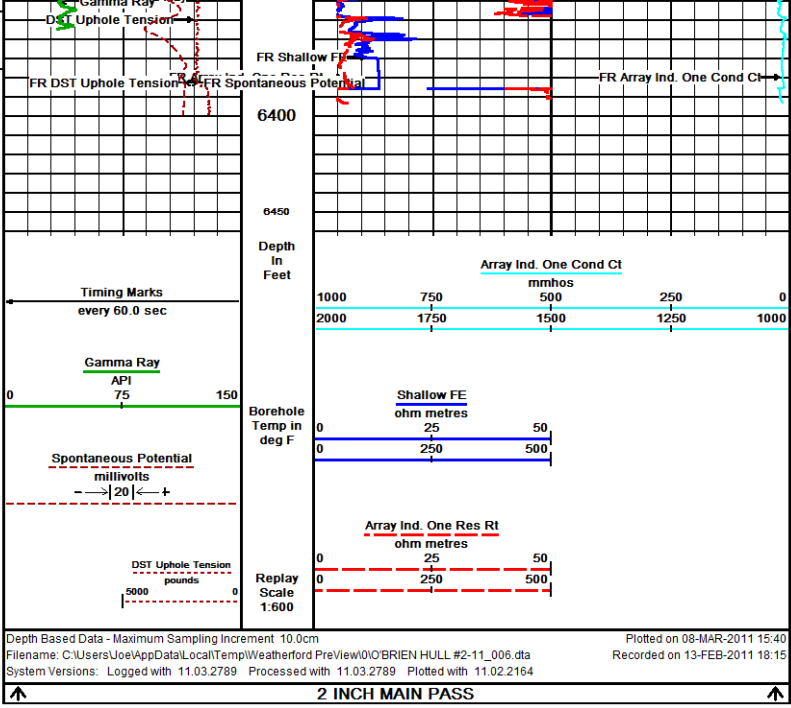


Ind. One Res R  
Shallow FE  
Spontaneous Pot  
Gamma Ray

Array Ind. One Cond C

DST Uphole Tension





Depth Based Data - Maximum Sampling Increment: 10.0cm  
 Plotted on 08-MAR-2011 15:40  
 Filename: C:\Users\Joel\AppData\Local\Temp\Weatherford PreView\0\O'BRIEN HULL #2-11\_006.dta  
 Recorded on 13-FEB-2011 18:15  
 System Versions: Logged with 11.03.2789 Processed with 11.03.2789 Plotted with 11.02.2164

COMPANY	O'BRIEN ENERGY RESOURCES CORP.				
WELL	HULL #2-11				
FIELD	ADAMS RANCH				
PROVINCE/COUNTY	MEADE				
COUNTRY/STATE	U.S.A. / KANSAS				
Elevation Kelly Bushing	2680.00	feet	First Reading	6380.00	feet
Elevation Drill Floor	2678.00	feet	Depth Driller	6387.00	feet
Elevation Ground Level	2668.00	feet	Depth Logger	6383.00	feet

ARRAY INDUCTION  
SHALLOW FOCUSED  
ELECTRIC LOG