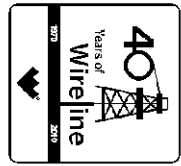




Weatherford[®]

**ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG**

COMPANY **OXY USA, INC.**
 WELL **ELIZABETH A. COX #6**
 FIELD **VICTORY**
 PROVINCE/COUNTY **HASKELL**
 COUNTRY/STATE **U.S.A. / KANSAS**
 LOCATION **2080' FSL & 1230' FEL**



SEC **8** TWP **30S** RGE **33W** Other Services
 API Number **15-081-21943** MDN/MPD
 Permit Number **MSS** MML
 Permanent Datum G.L., Elevation 2968 feet
 Log Measured From K.B. @ 11 FEET above Permanent Datum
 Drilling Measured From K.B.

Elevations: feet
 KB 2979.00
 DF 2977.00
 GL 2968.00

Date	05-JUL-2011
Run Number	ONE
Depth Driller	5560.00 feet
Depth Logger	5566.00 feet
First Reading	5563.00 feet
Last Reading	0.00 feet
Casing Driller	1815.00 feet
Casing Logger	1818.00 feet
Bit Size	8.750 inches
Hole Fluid Type	CHEMICAL
Density / Viscosity	9.10 lb/USg 41.00 CP
PH / Fluid Loss	10.40 7.60 ml/30Min
Sample Source	FLOWLINE
Rm @ Measured Temp	1.37 @ 84.0 ohm-m
Rmf @ Measured Temp	1.10 @ 84.0 ohm-m
Rmc @ Measured Temp	1.64 @ 84.0 ohm-m
Source Rmf / Rmc	CALC CALC
Rm @ BHT	0.84 @139.0 ohm-m
Time Since Circulation	5 HOURS
Max Recorded Temp	140.00 deg F
Equipment Name	COMPACT
Equipment / Base	13057 LIB
Recorded By	A. GIAMBALVO
Witnessed By	AUSTIN GARNER
S.O. / JOB #	3531101 LB11-154

BOREHOLE RECORD			Last Edited: 05-JUL-2011 19:05	
Bit Size inches	Depth From feet	Depth To feet		
8.750	1818.00	5566.00		
CASING RECORD				
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	1818.00	36.00

REMARKS

Tools Ran: MCG, MML, MDN, MPD, SKJ, MFE, MAI, MSS.
 Hardware Used: MDN Dual Eccentralizer used. MPD 8 inch profile plate used. MFE MSS and MAI 0.5 inch standoffs used.
 2.71 g/cc Limestone Density Matrix used to calculate porosity.
 Sonic porosity calculated using a Limestone scale (47.5 usec/ft).
 All intervals logged and scaled per customer's request.
 Annular volume with 7 inch production casing from TD to 3500 = 305 cu. ft.
 Service order #3531101
 Rig: Trinidad Drilling #202
 Engineer: A. Giambalvo
 Operator(s): B. Reeves

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

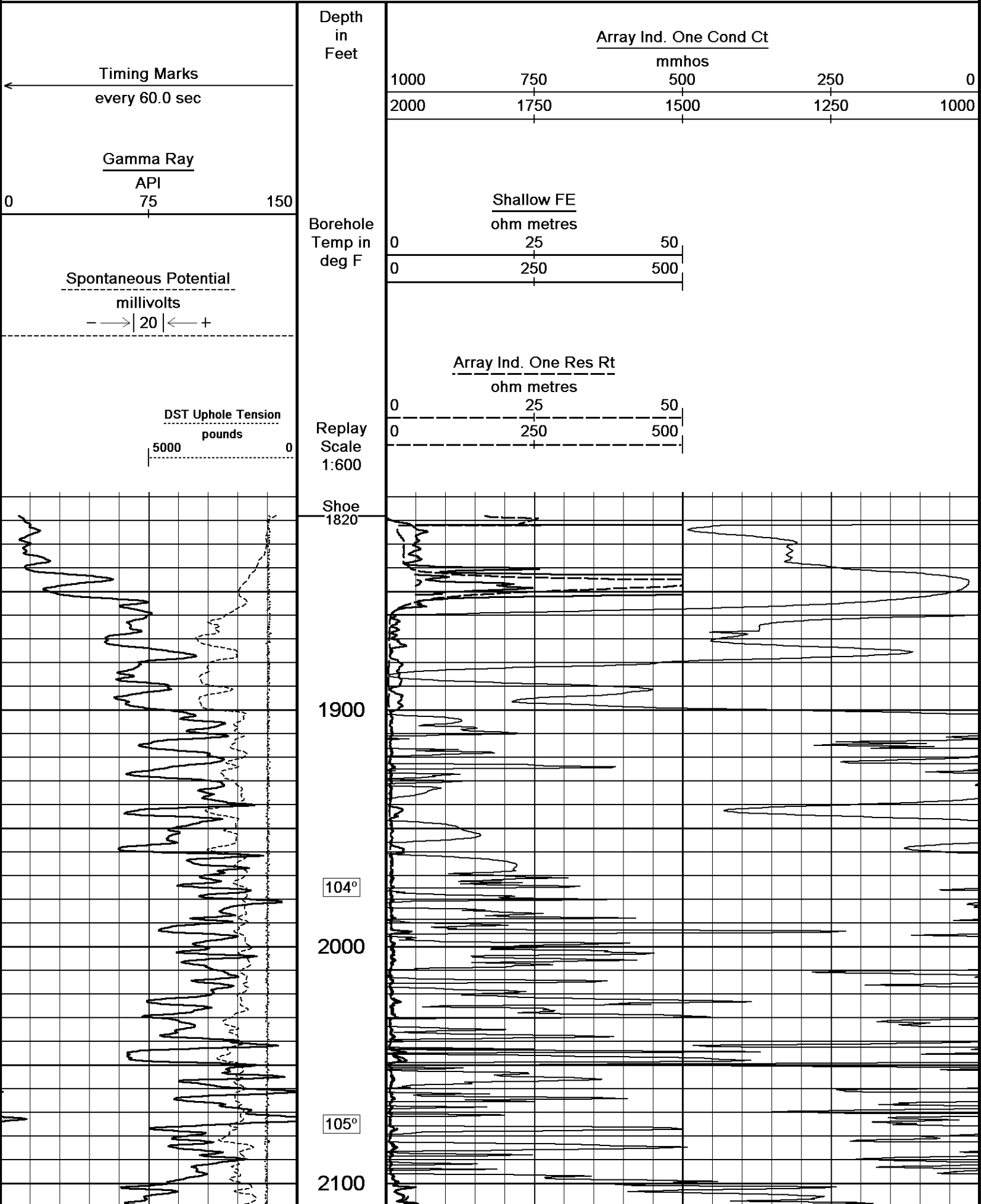
Depth Based Data - Maximum Sampling Increment 10.0cm

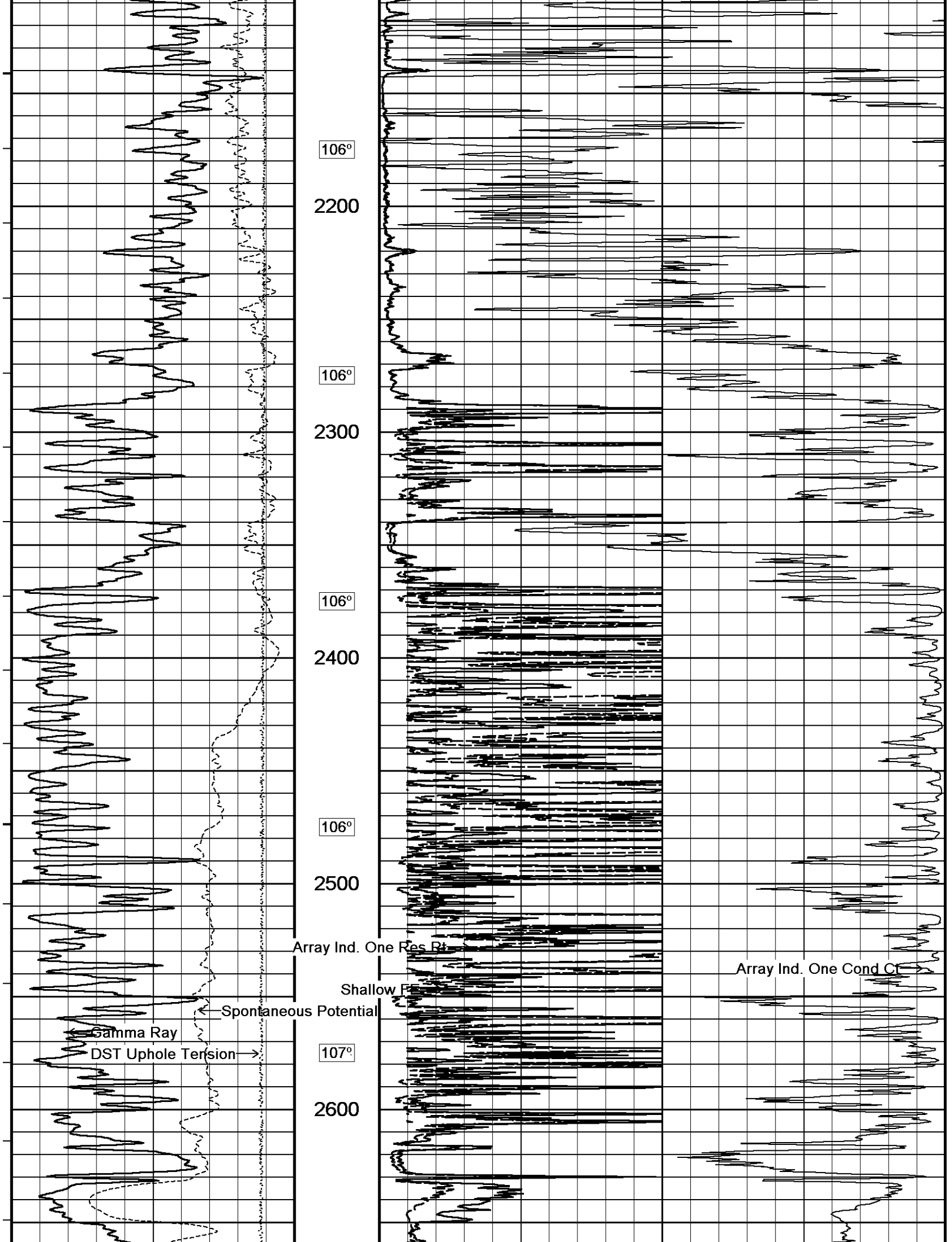
Plotted on 05-JUL-2011 19:16

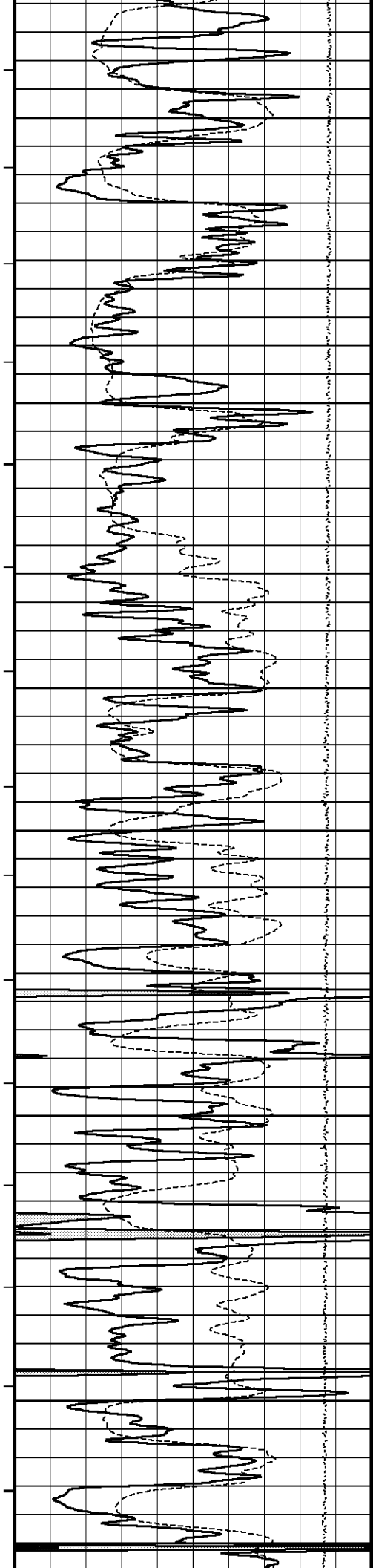
Filename: C:\Minimus 11.02.3186\Data\Oxy Elizabeth A. Cox #6\Oxy Elizabeth A. Cox #6_004.dta

Recorded on 05-JUL-2011 16:55

System Versions: Logged with 11.02.3186 Plotted with 11.02.3186







108°

2700

109°

2800

110°

2900

111°

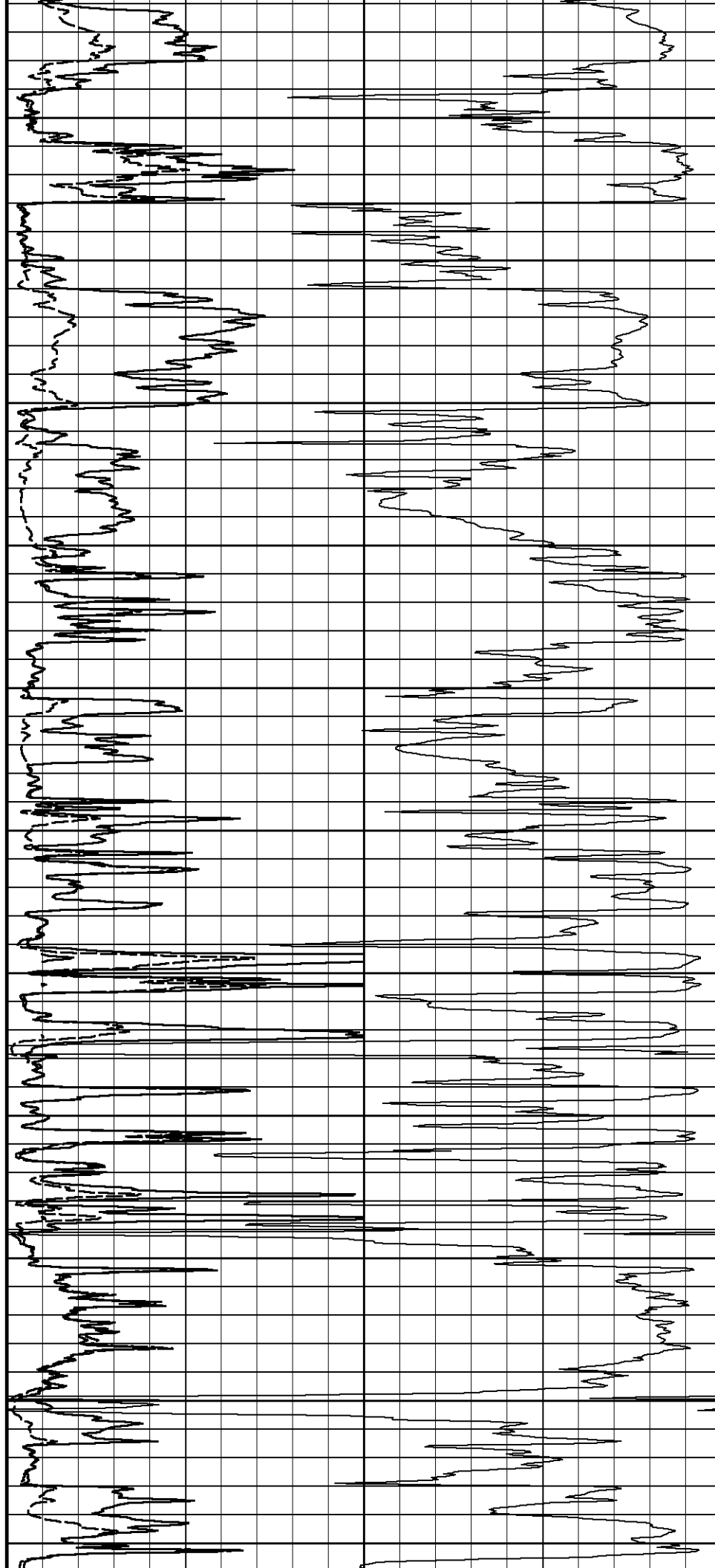
3000

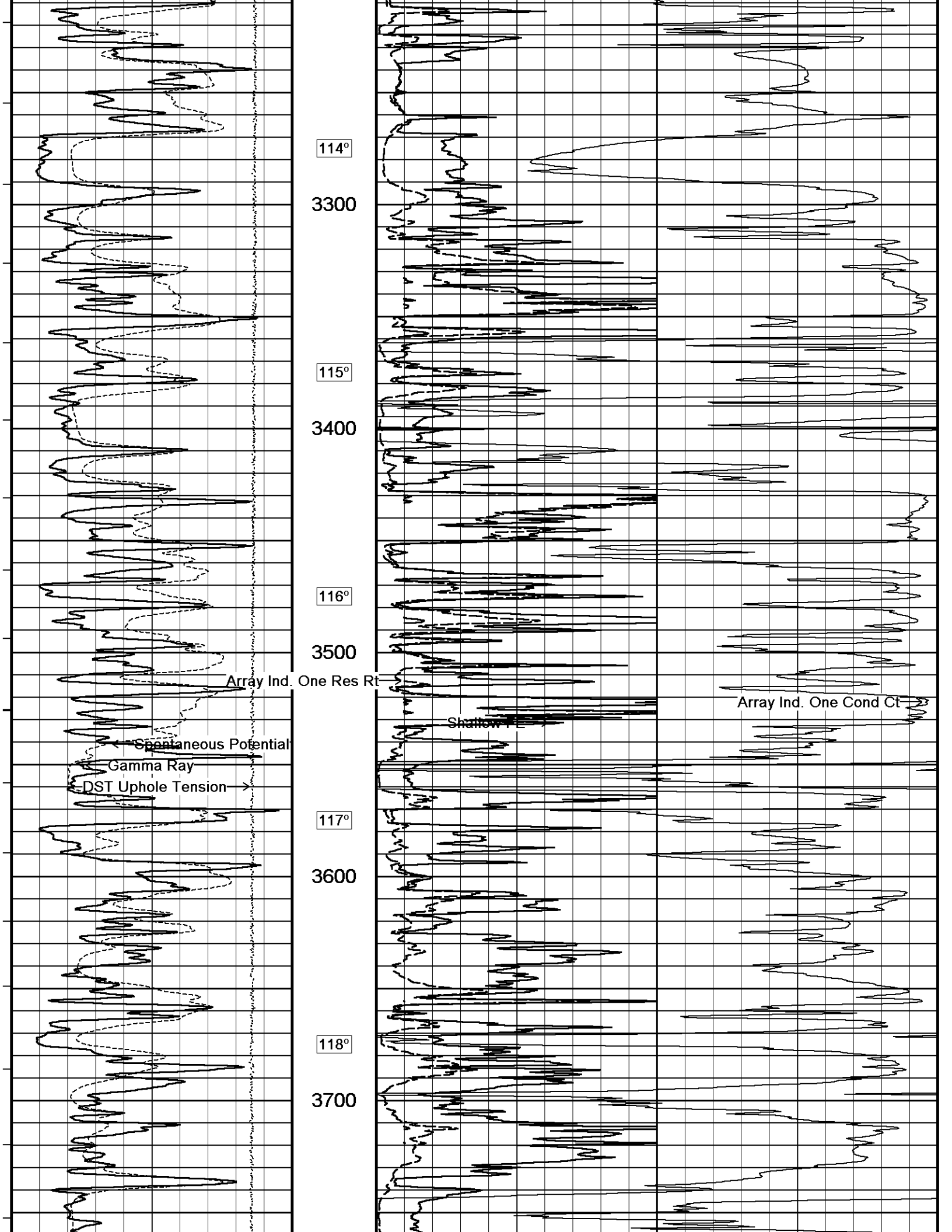
112°

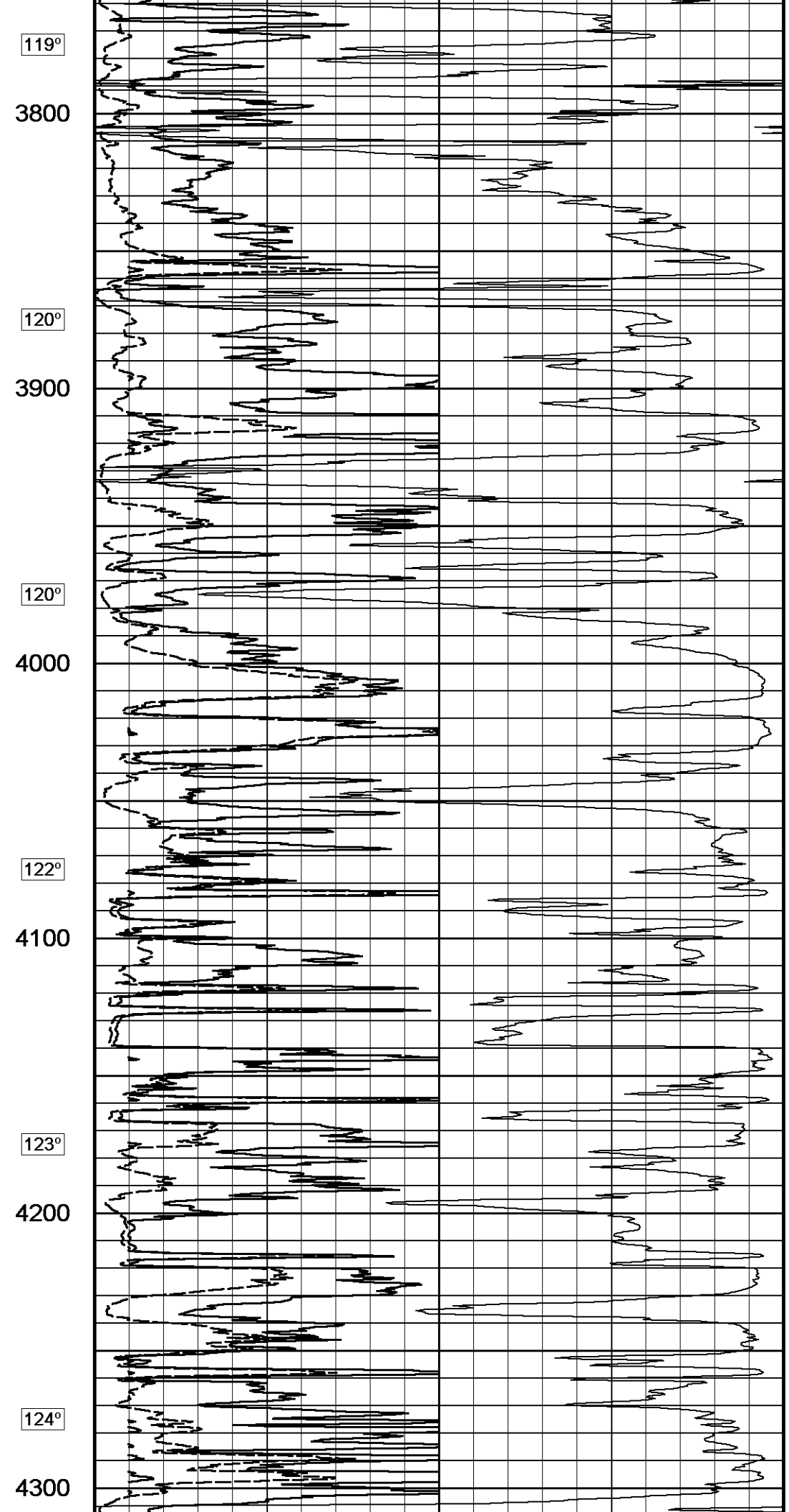
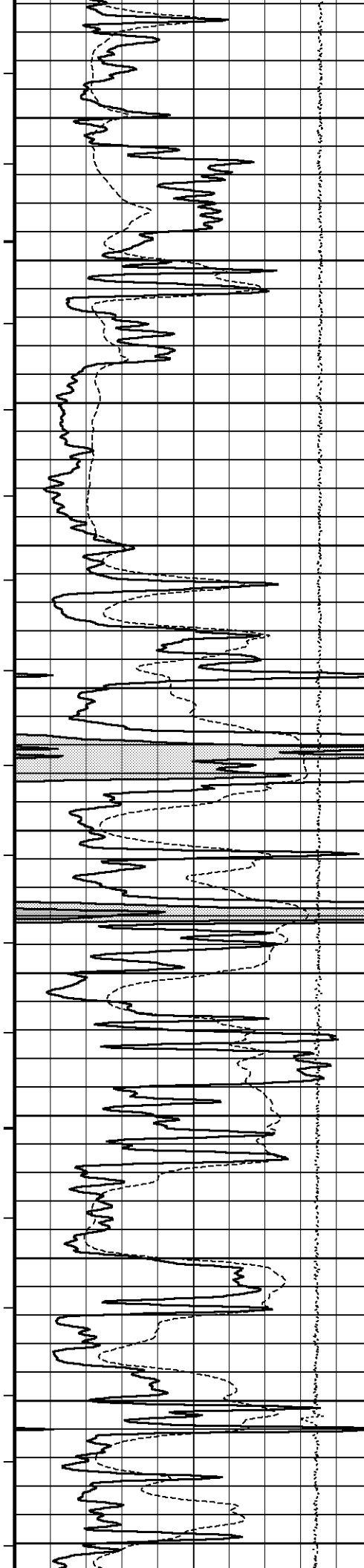
3100

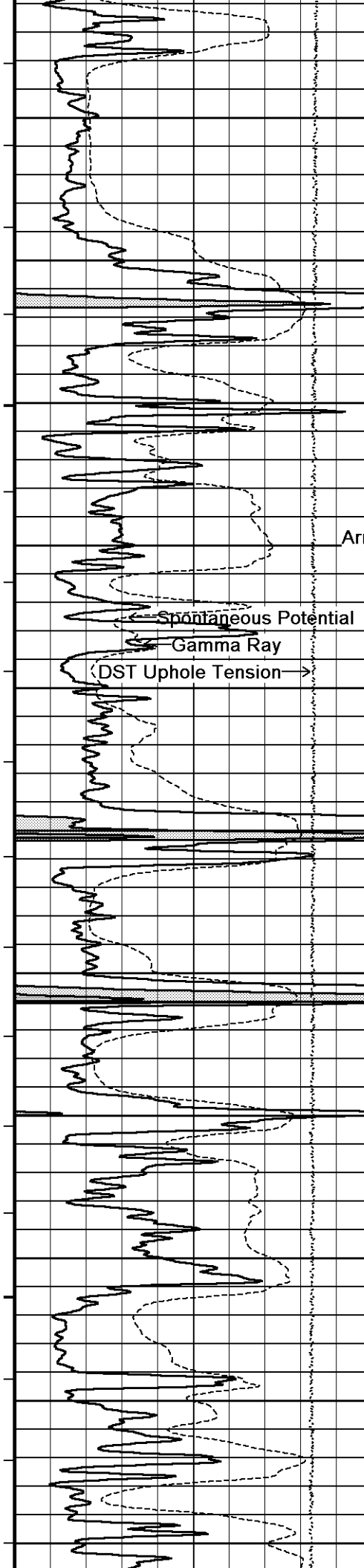
113°

3200









125°

4400

125°

Array Ind. Res Rt

4500

Shallow FF

Array Ind. One Cond Ct

126°

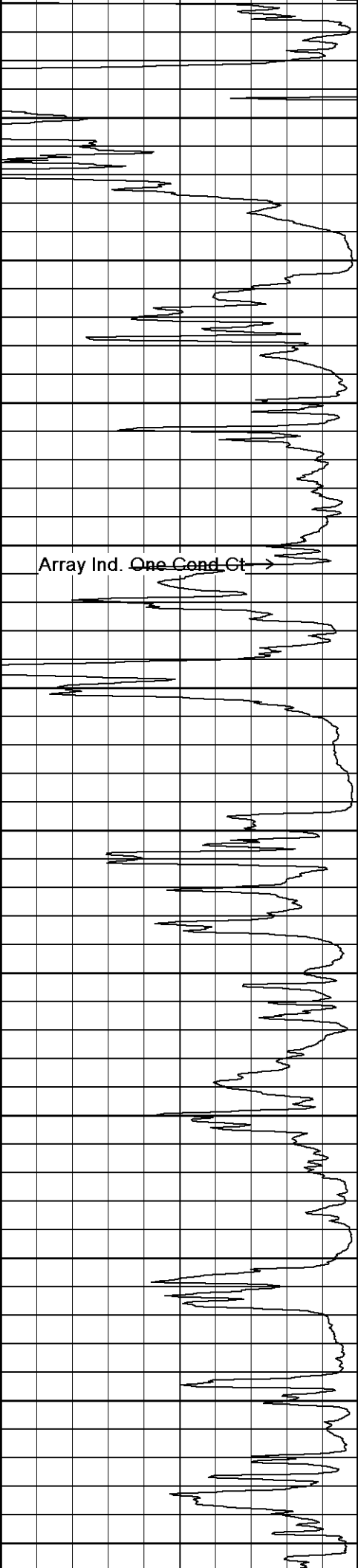
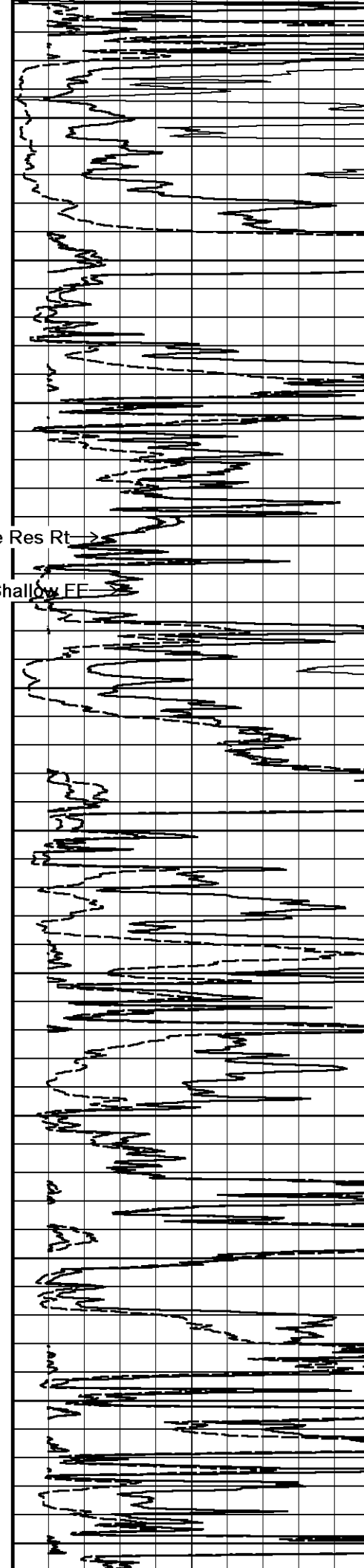
4600

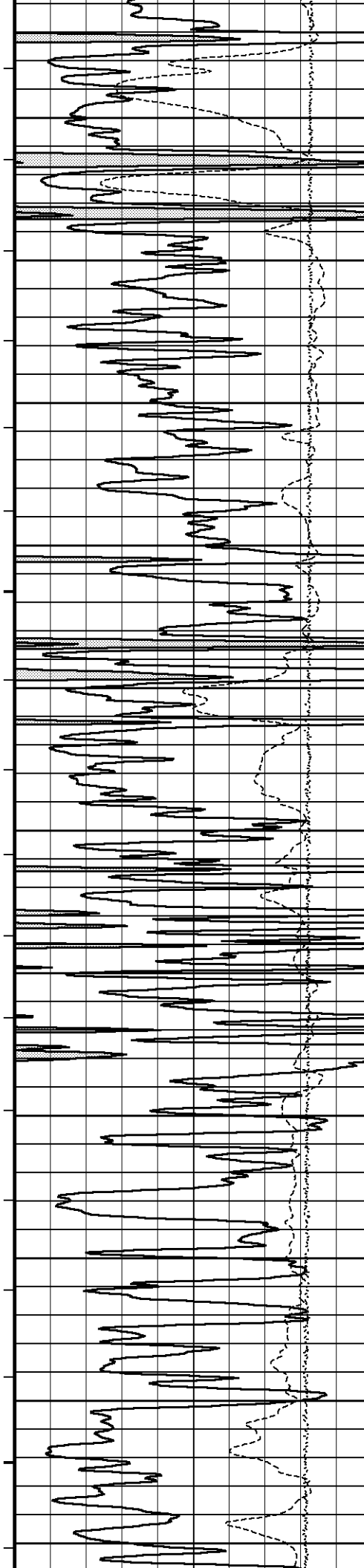
127°

4700

129°

4800





131°

4900

133°

5000

134°

5100

136°

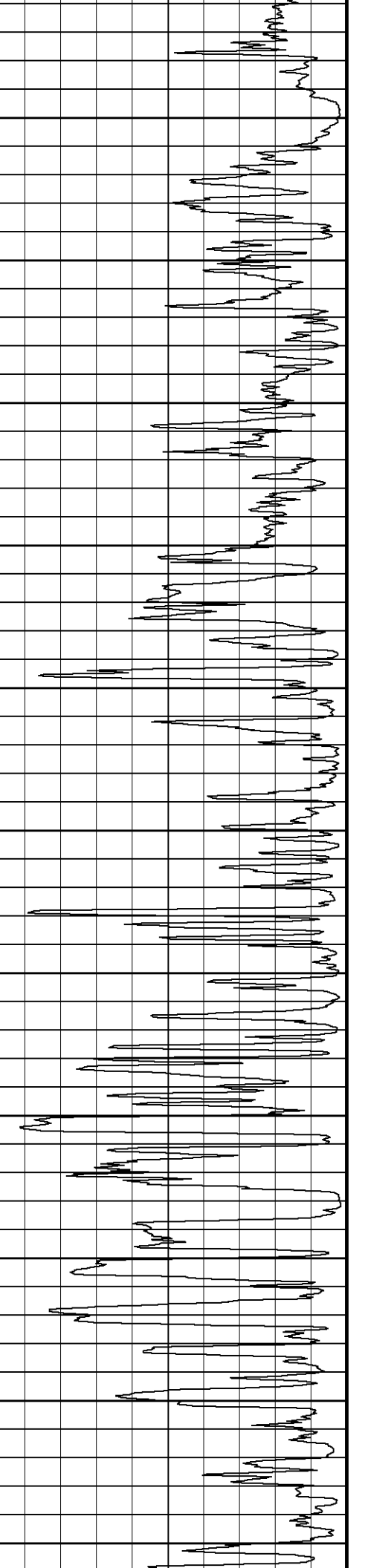
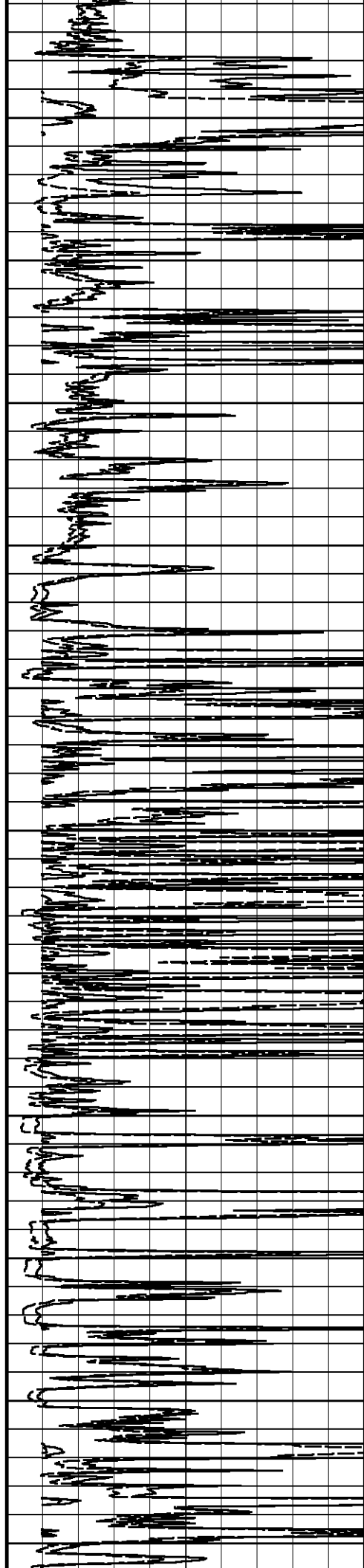
5200

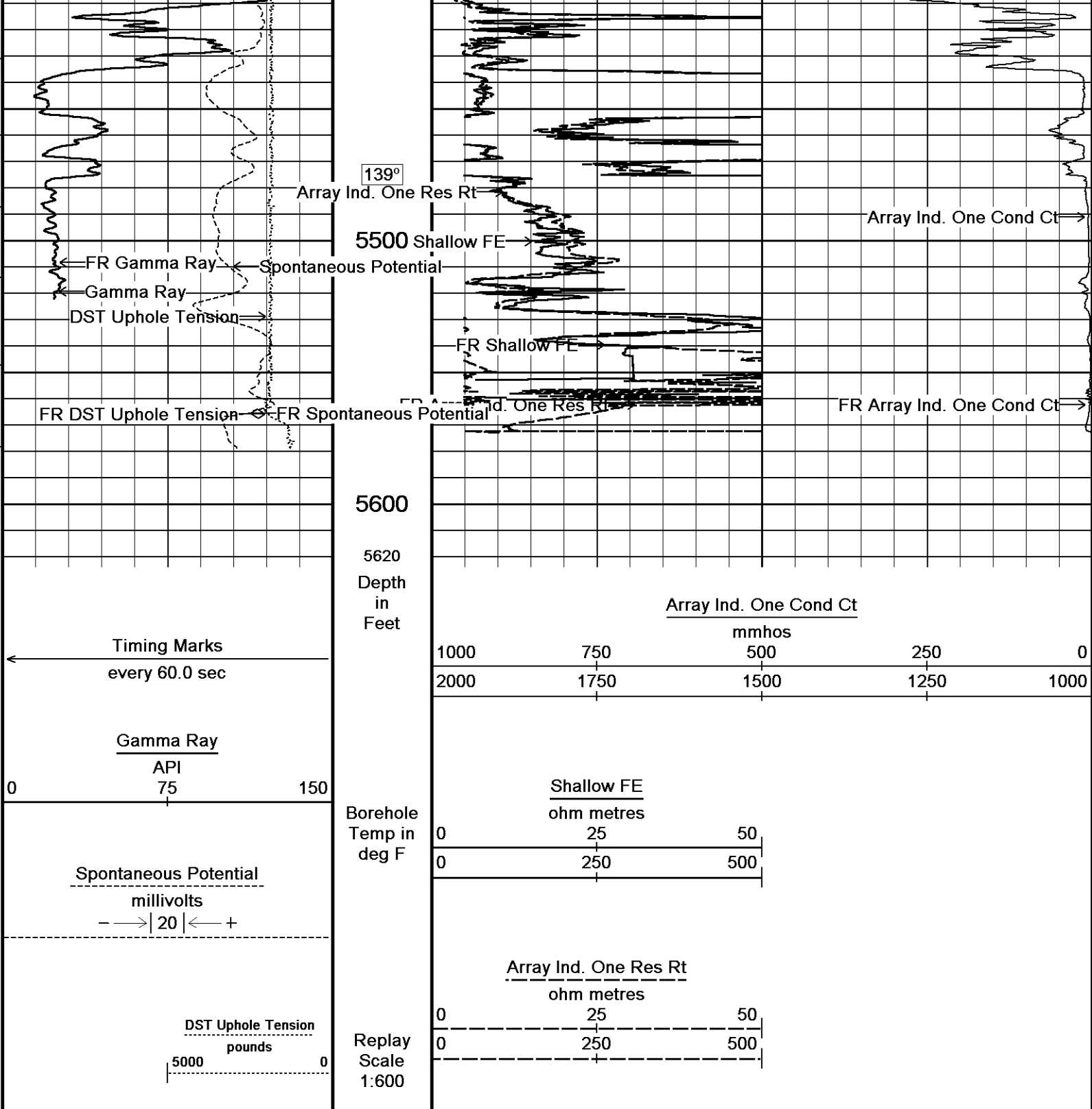
137°

5300

139°

5400





Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 05-JUL-2011 19:16
 Filename: C:\Minimus 11.02.3186\Data\Oxy Elizabeth A. Cox #6\Oxy Elizabeth A. Cox #6_004.dta
 Recorded on 05-JUL-2011 16:55
 System Versions: Logged with 11.02.3186 Plotted with 11.02.3186

↑ 2 INCH MAIN PASS ↑

↓ 5 INCH MAIN PASS ↓

Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 05-JUL-2011 19:16
 Filename: C:\Minimus 11.02.3186\Data\Oxy Elizabeth A. Cox #6\Oxy Elizabeth A. Cox #6_004.dta
 Recorded on 05-JUL-2011 16:55
 System Versions: Logged with 11.02.3186 Plotted with 11.02.3186



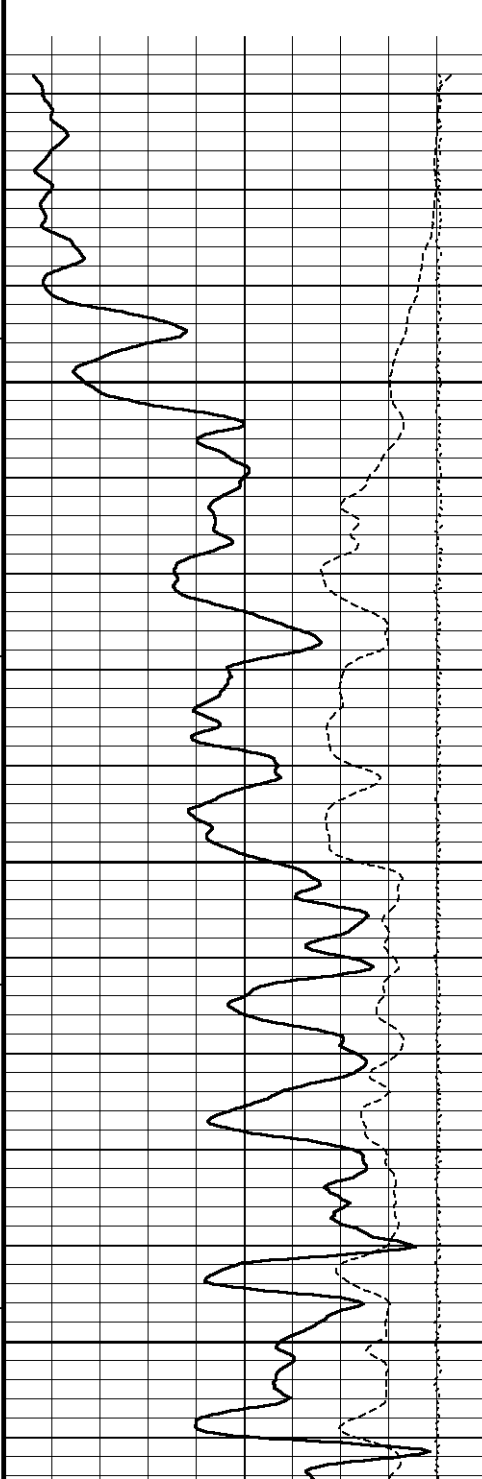
← every 60.0 sec

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

1816,

1850

103°

1900

103°

1950

0.20 1 10 100 1000 2000

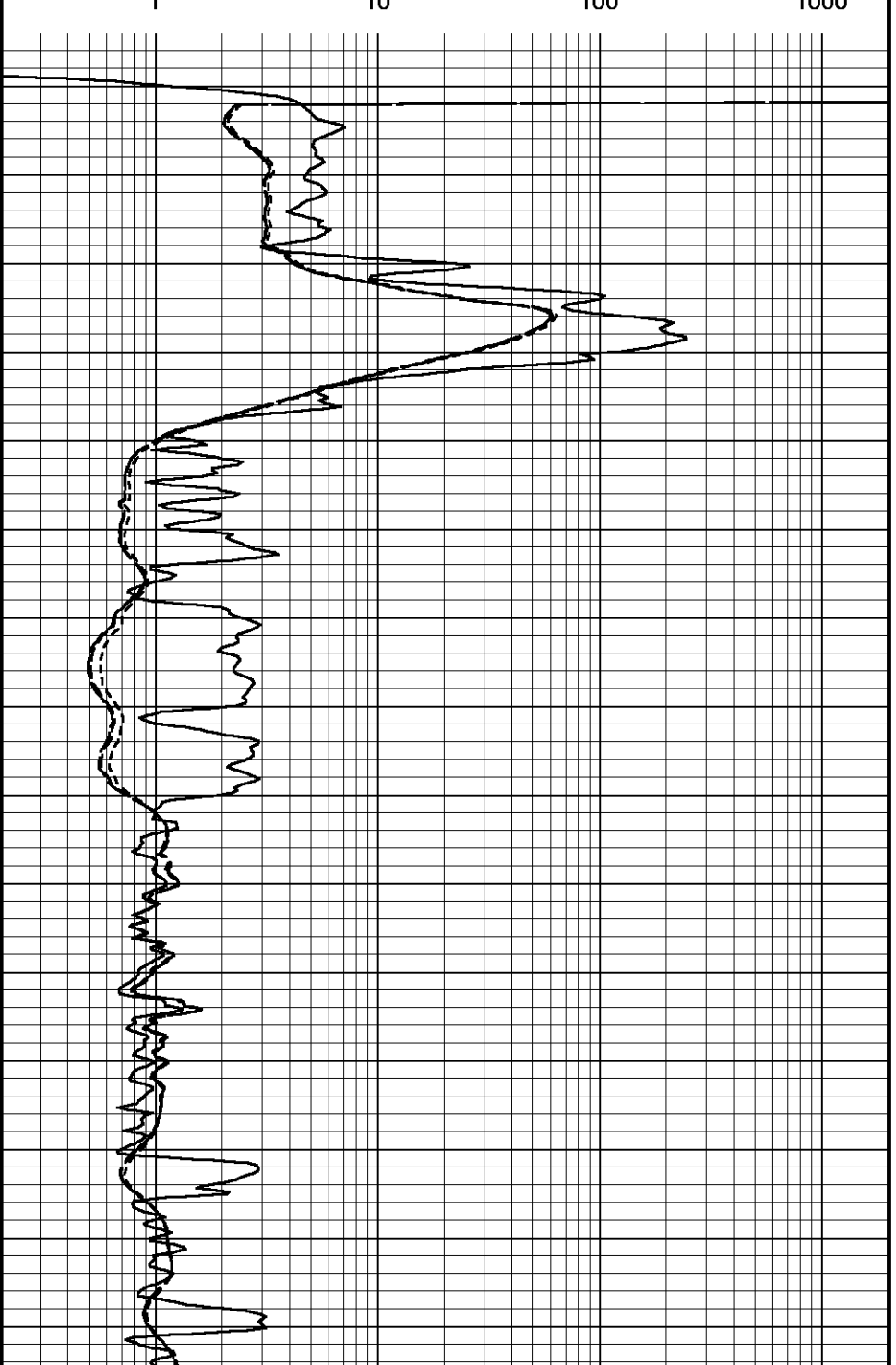
Array Ind. One Res 40
ohm metres

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



104°

Array Ind. One Res Rt
Array Ind. One Res 60
2000nd. One Res 40
Shallow FE

← Spontaneous Potential
← Gamma Ray

DST Uphole Tension →

105°

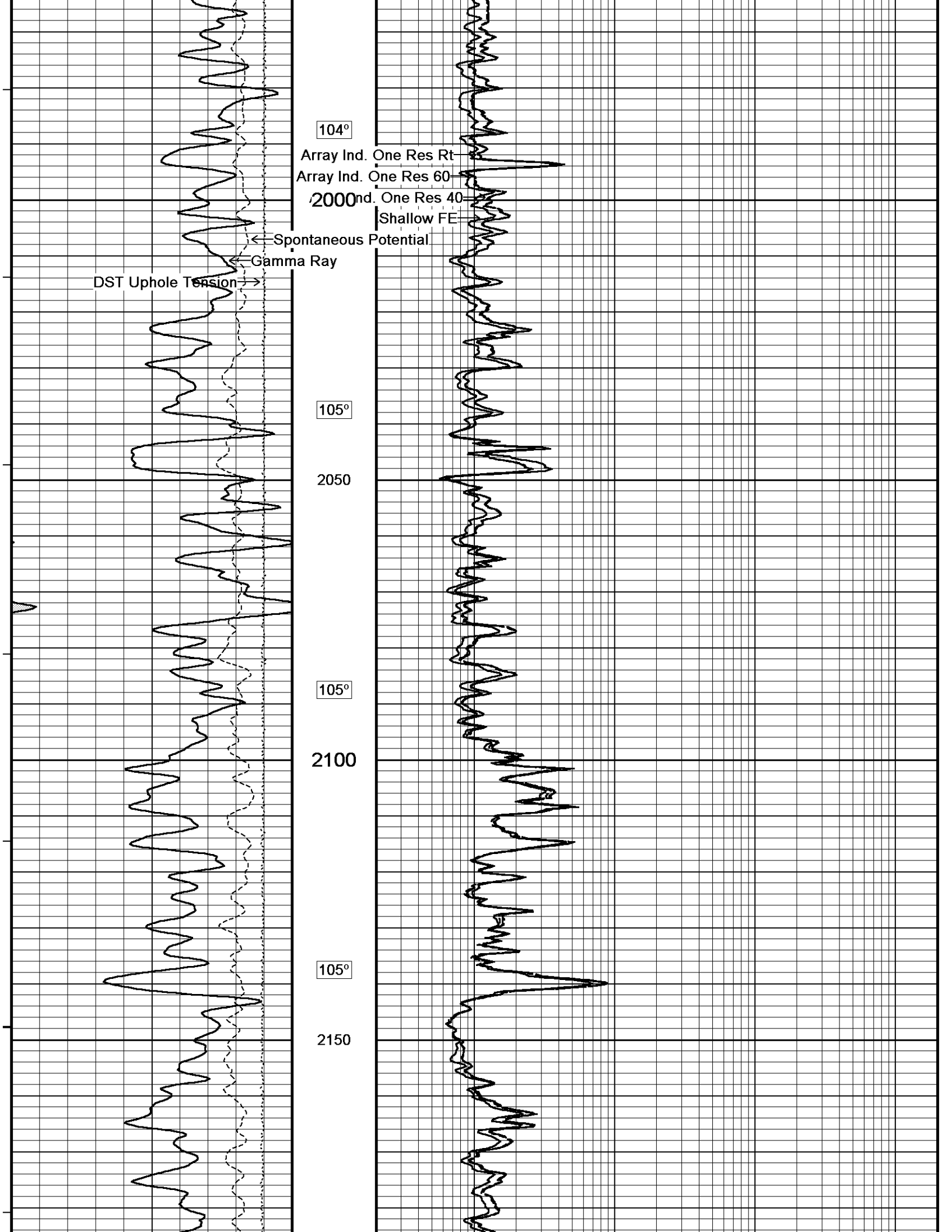
2050

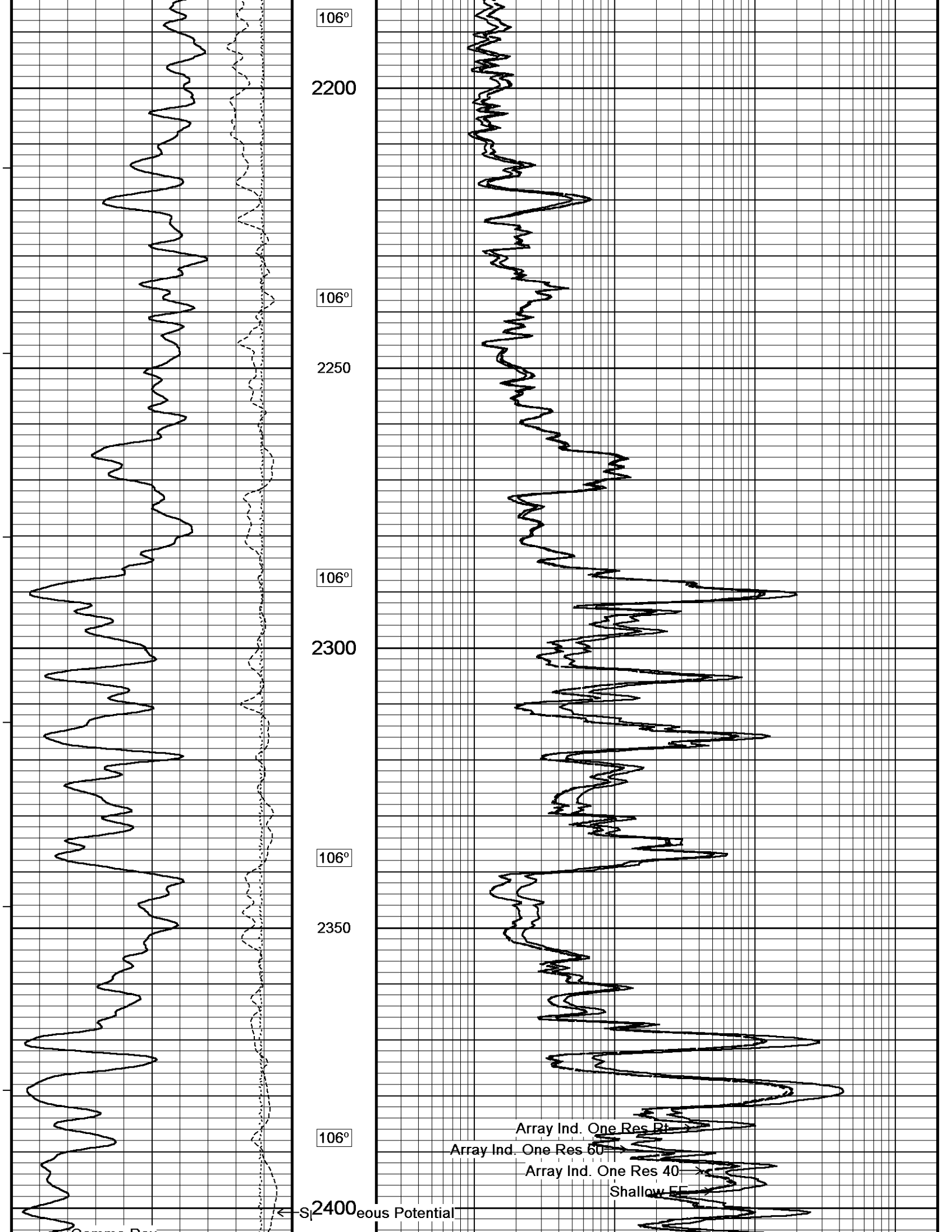
105°

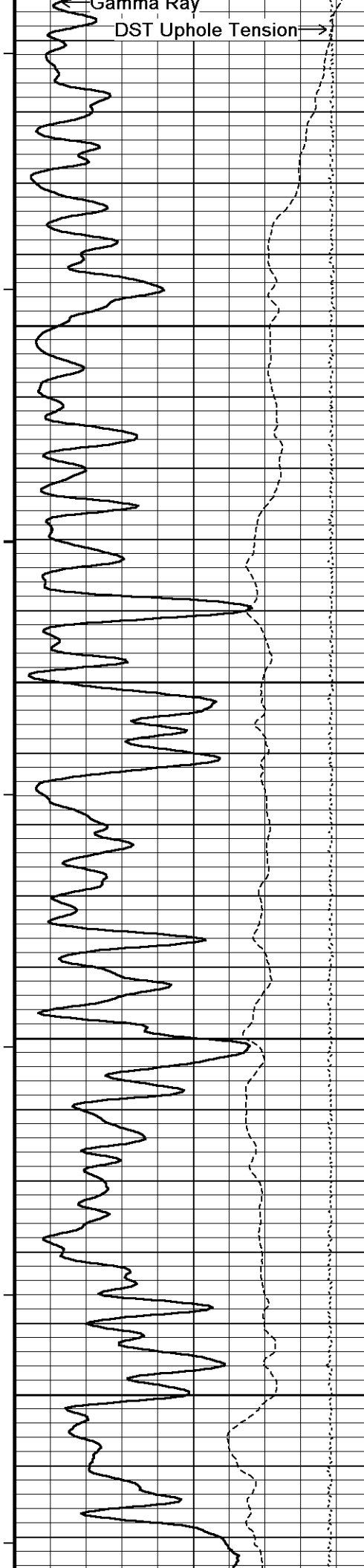
2100

105°

2150







106°

2450

106°

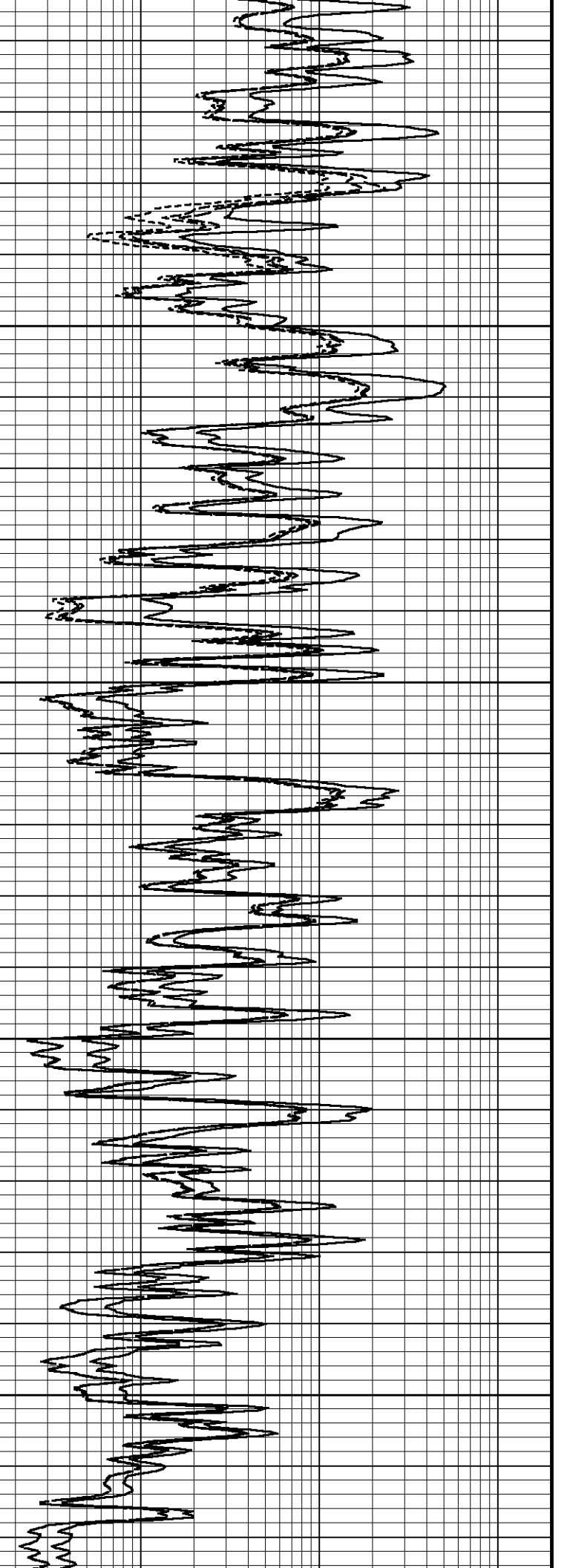
2500

107°

2550

107°

2600



107°

2650

108°

2700

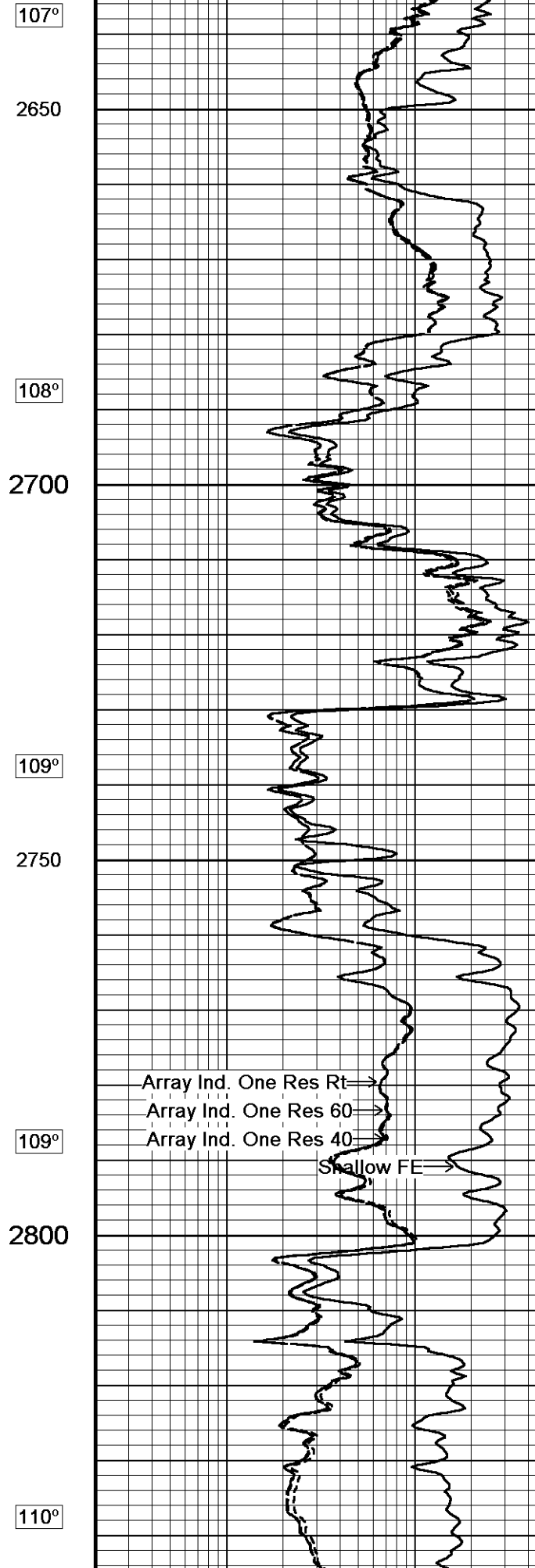
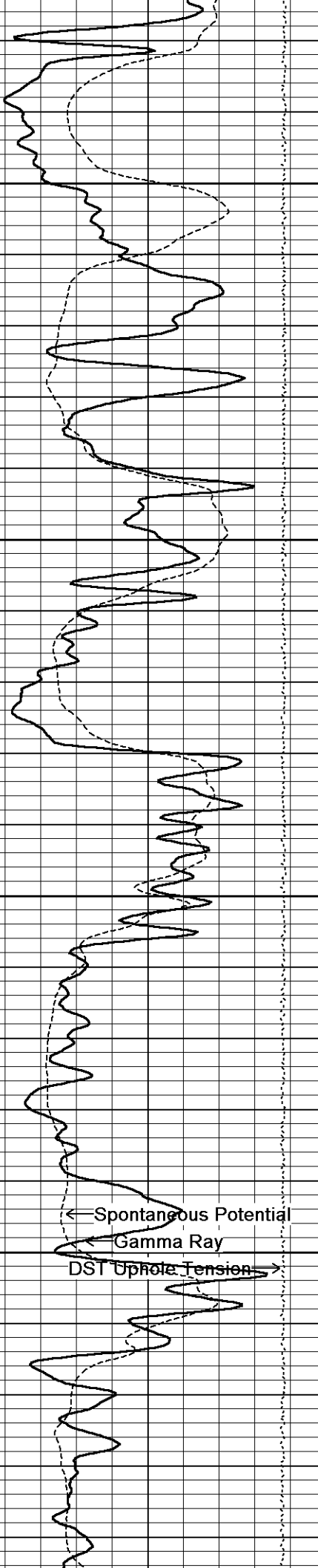
109°

2750

109°

2800

110°



Array Ind. One Res Rt →

Array Ind. One Res 60 →

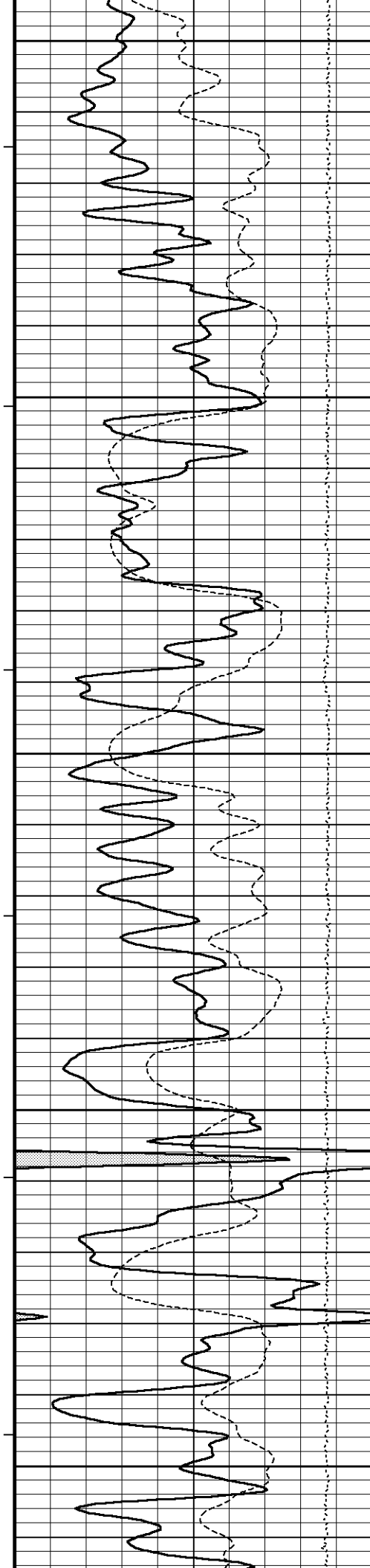
Array Ind. One Res 40 →

Shallow FE →

← Spontaneous Potential

← Gamma Ray

DST Uphole Tension →



2850

110°

2900

111°

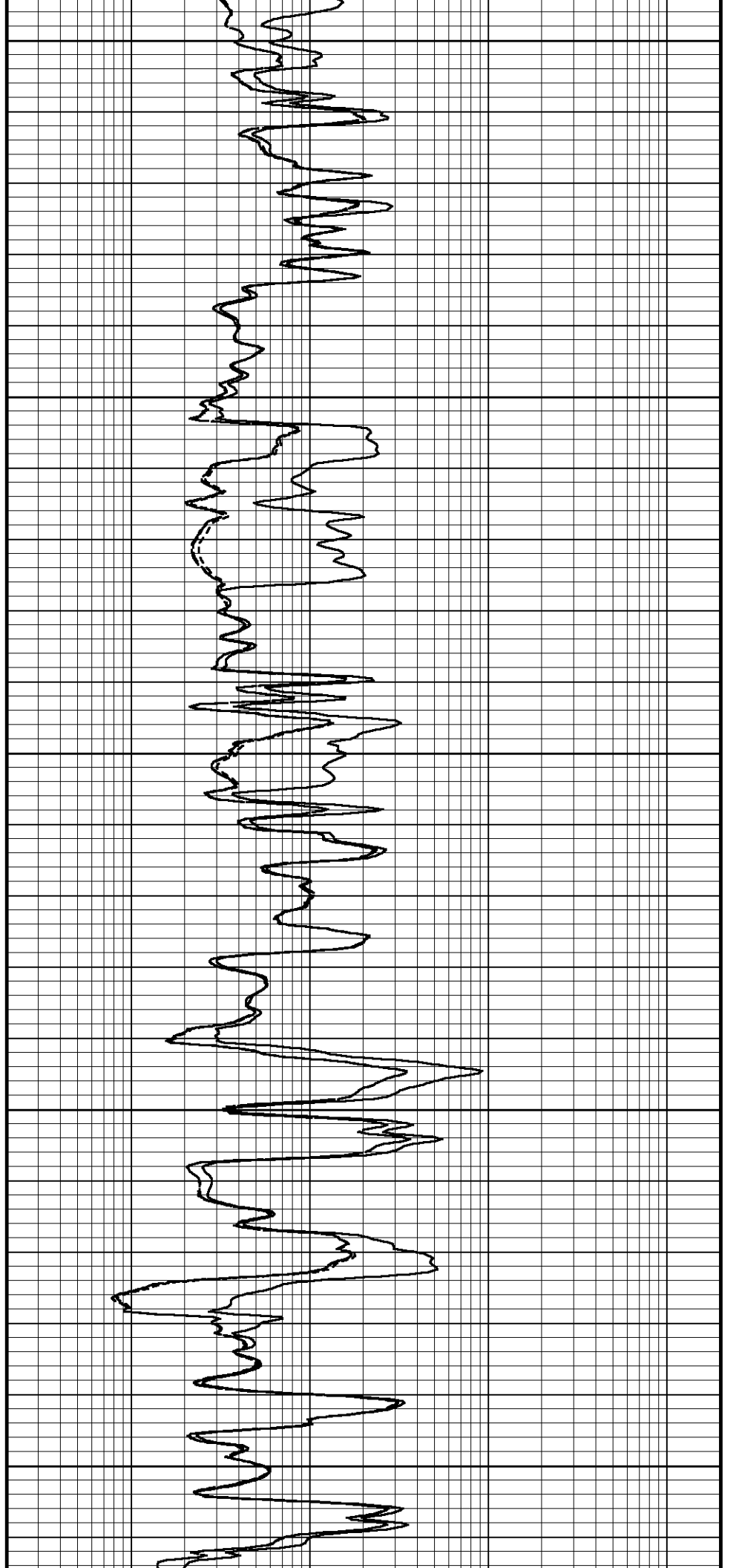
2950

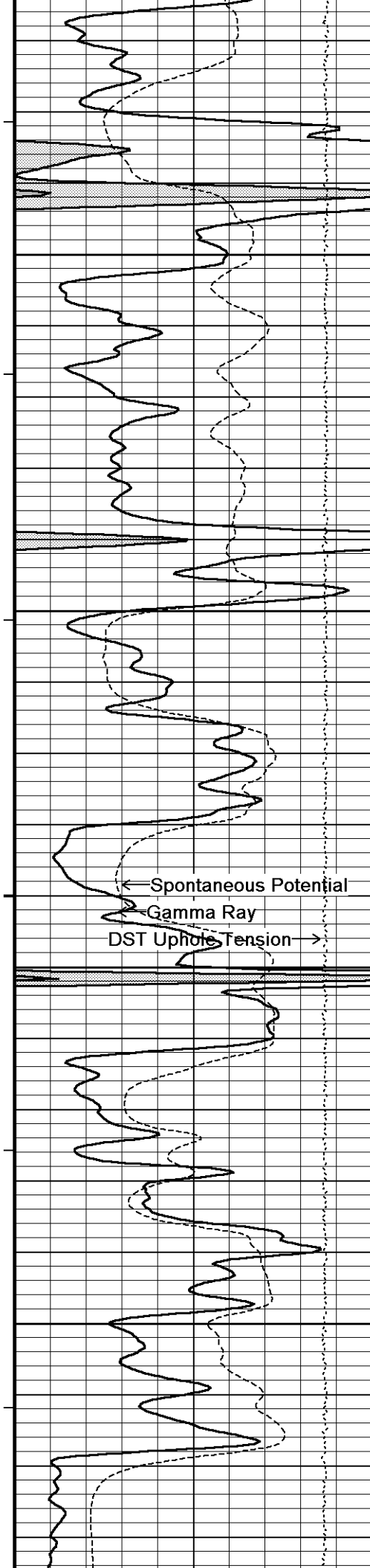
111°

3000

112°

3050





112°

3100

113°

3150

113°

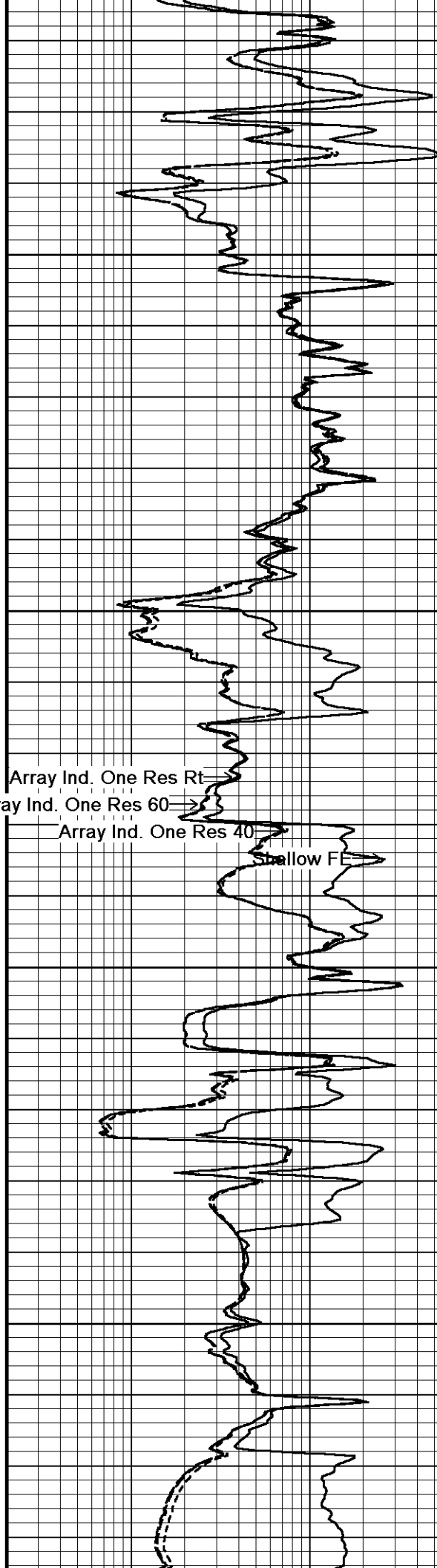
3200

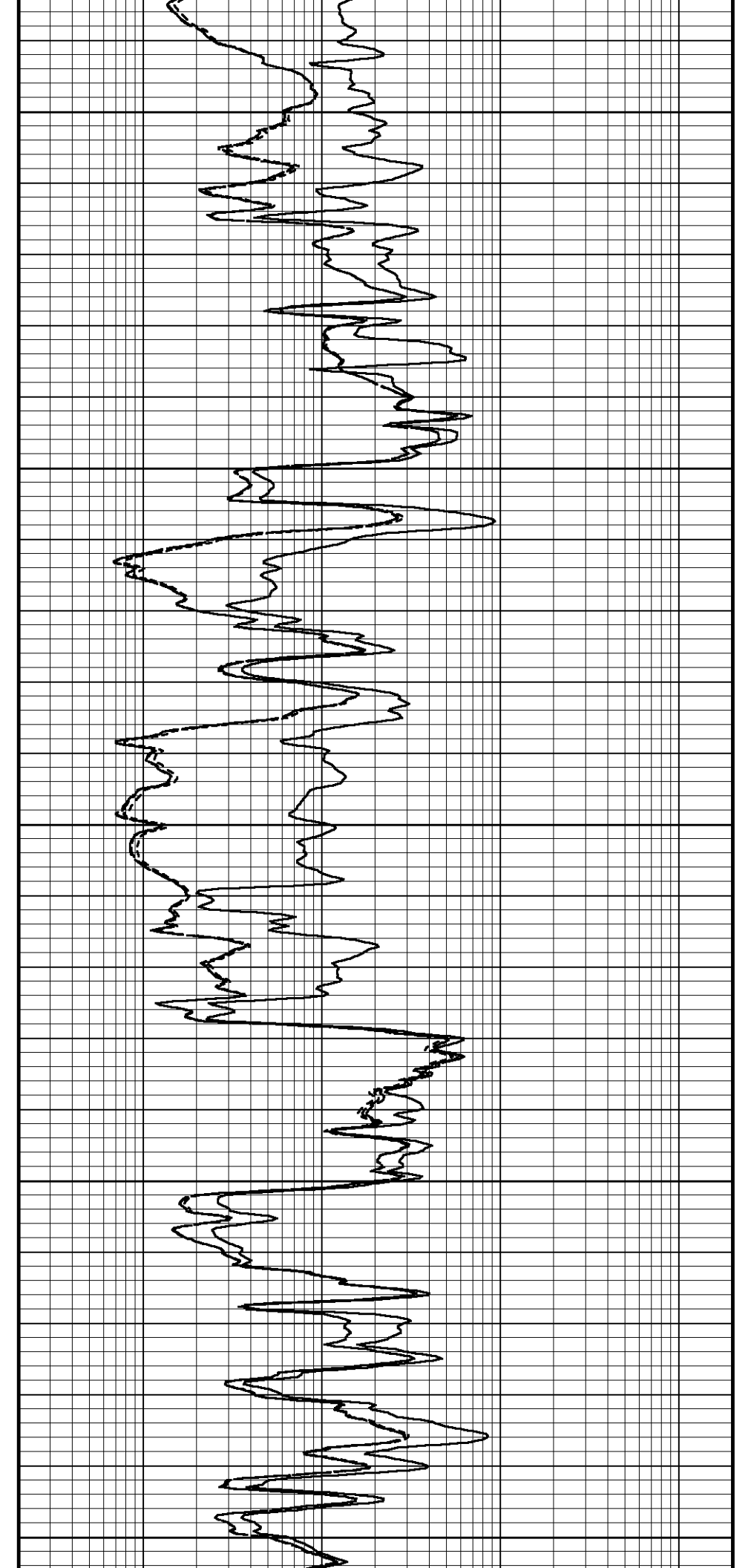
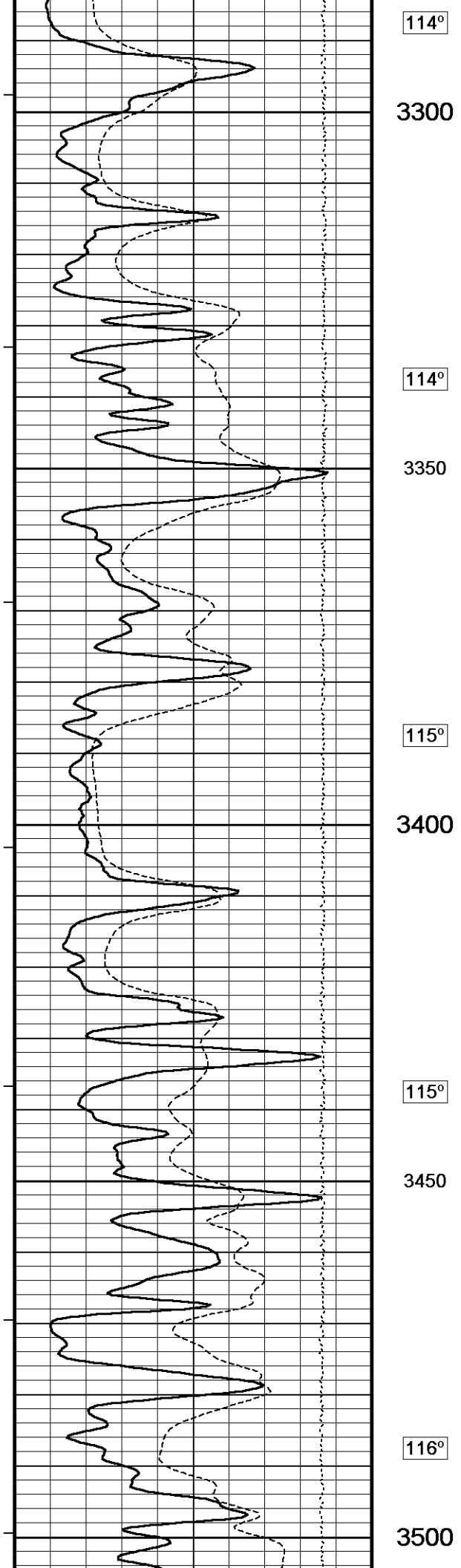
114°

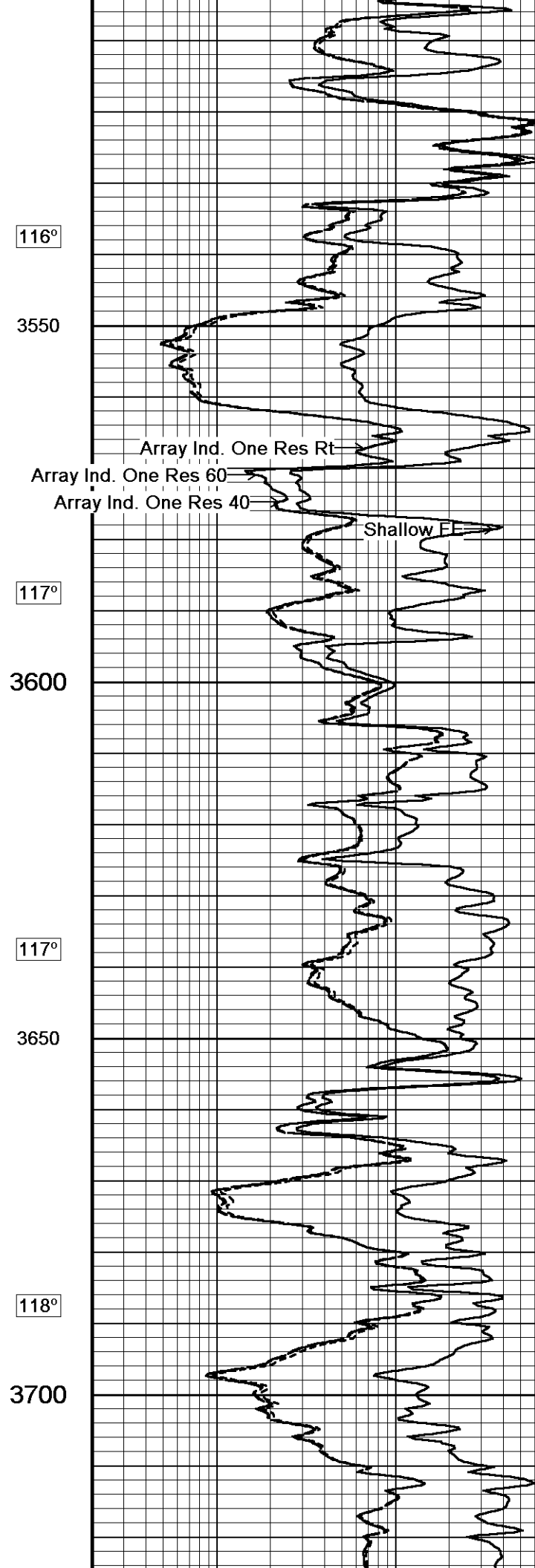
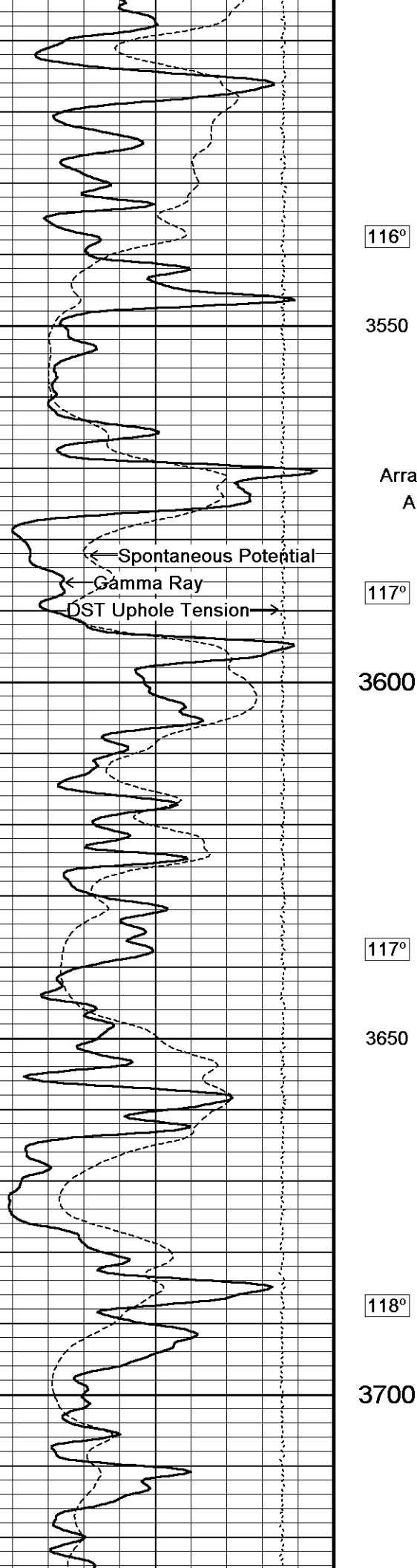
3250

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

Shallow FE







116°

3550

117°

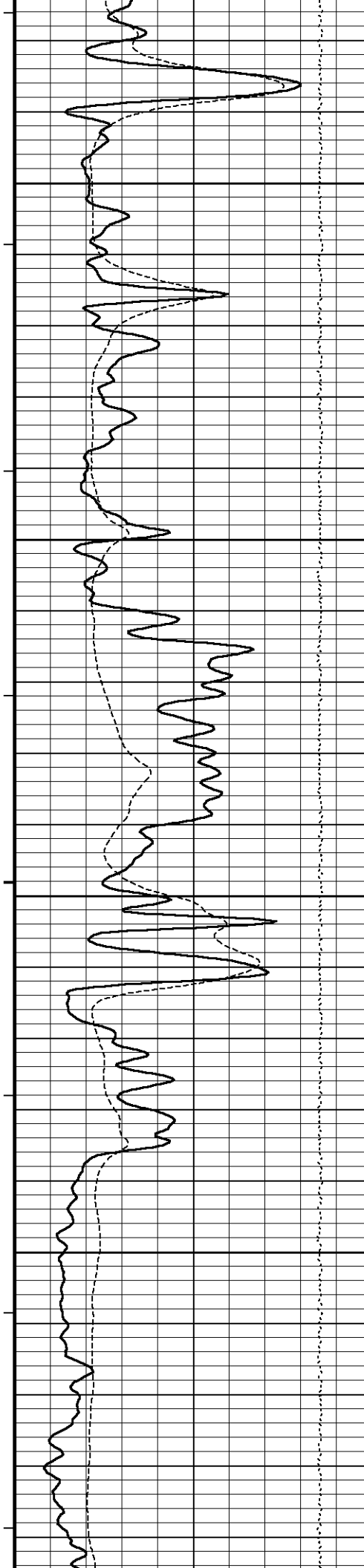
3600

117°

3650

118°

3700



118°

3750

119°

3800

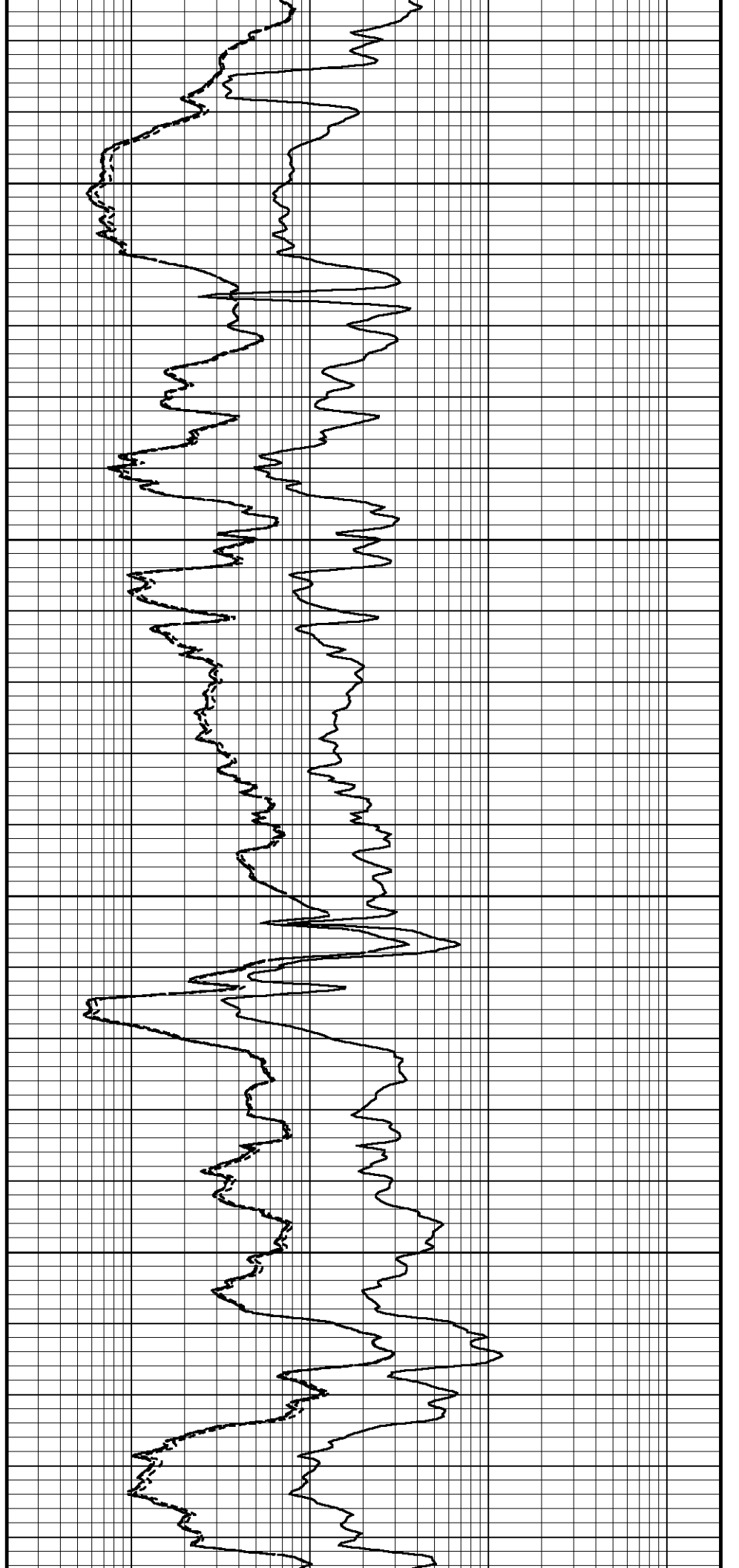
119°

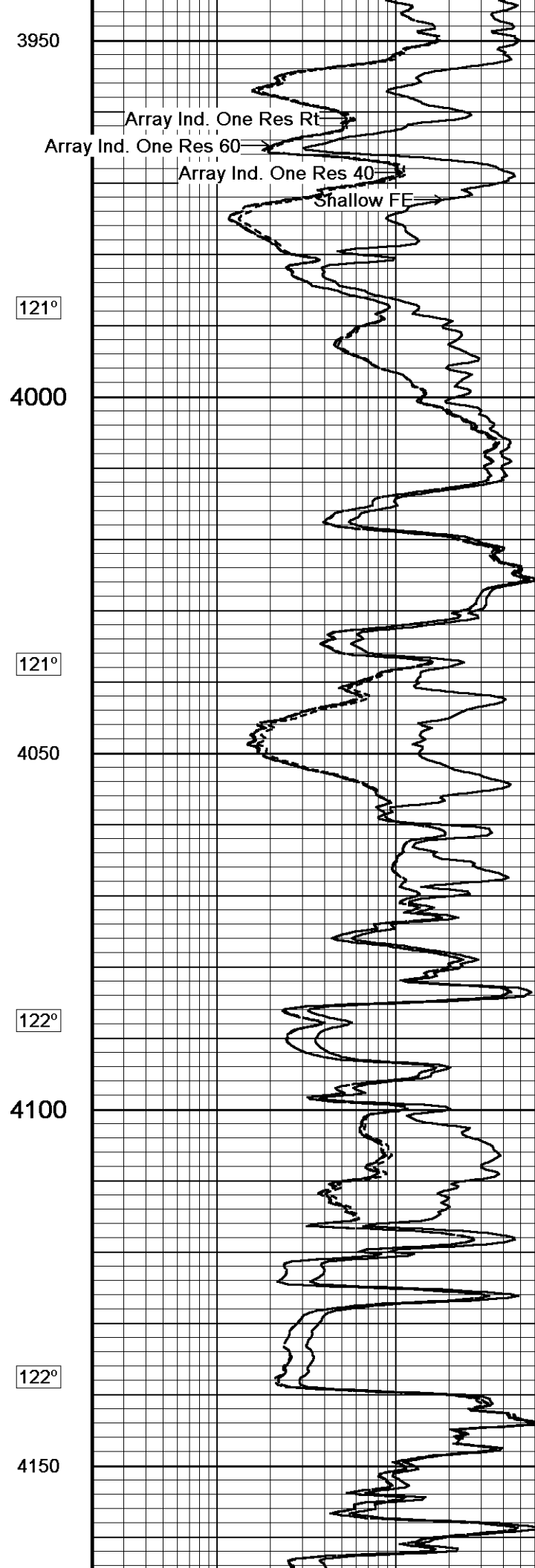
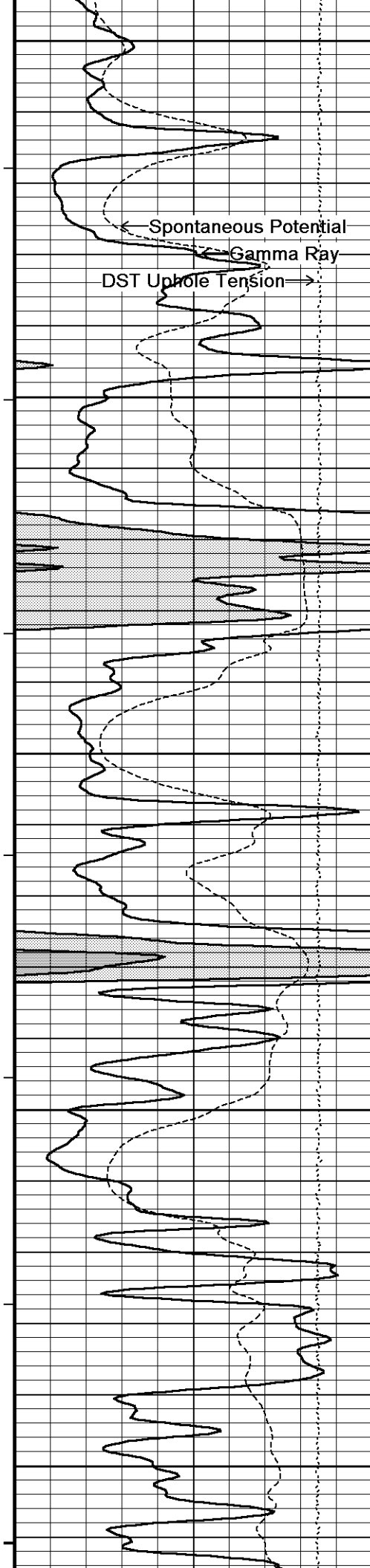
3850

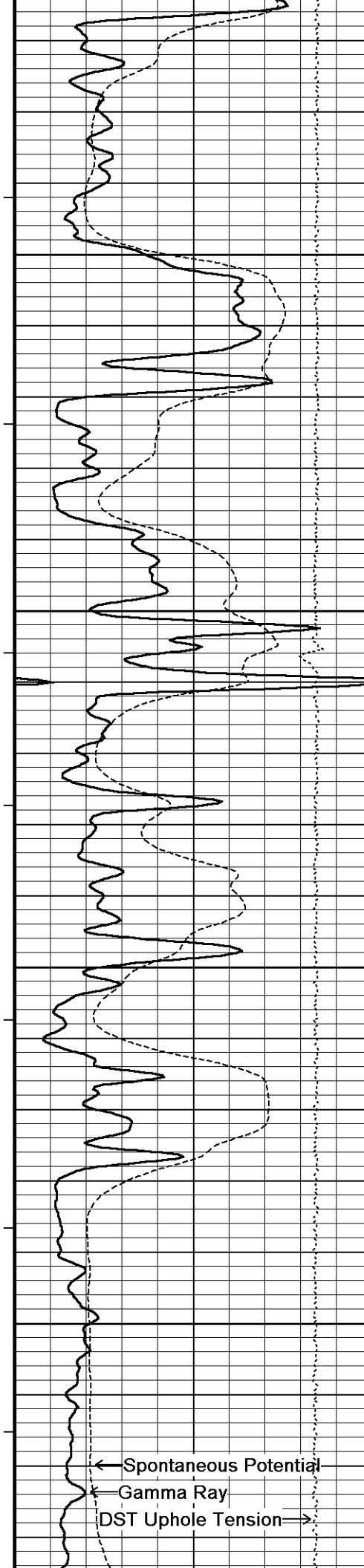
120°

3900

120°







123°

4200

123°

4250

124°

4300

124°

4350

Array Ind. One Res Rt →

Array Ind. One Res 60 →

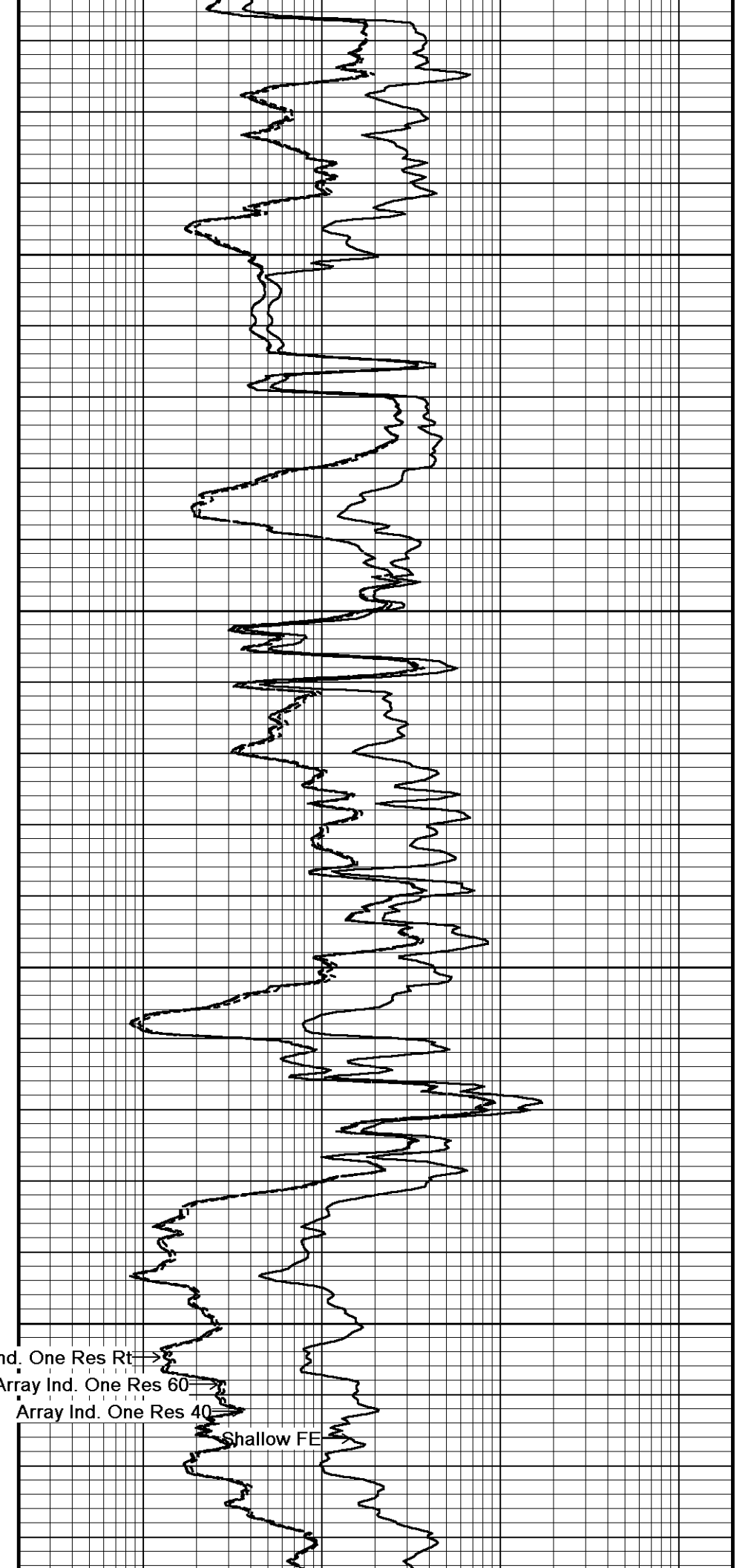
Array Ind. One Res 40 →

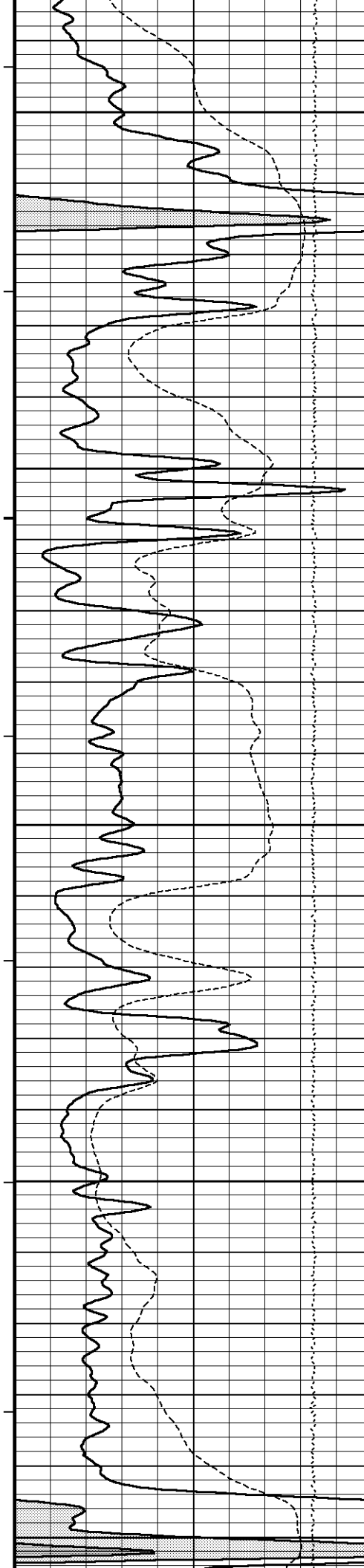
Shallow FE

← Spontaneous Potential

← Gamma Ray

DST Uphole Tension →





125°

4400

125°

4450

125°

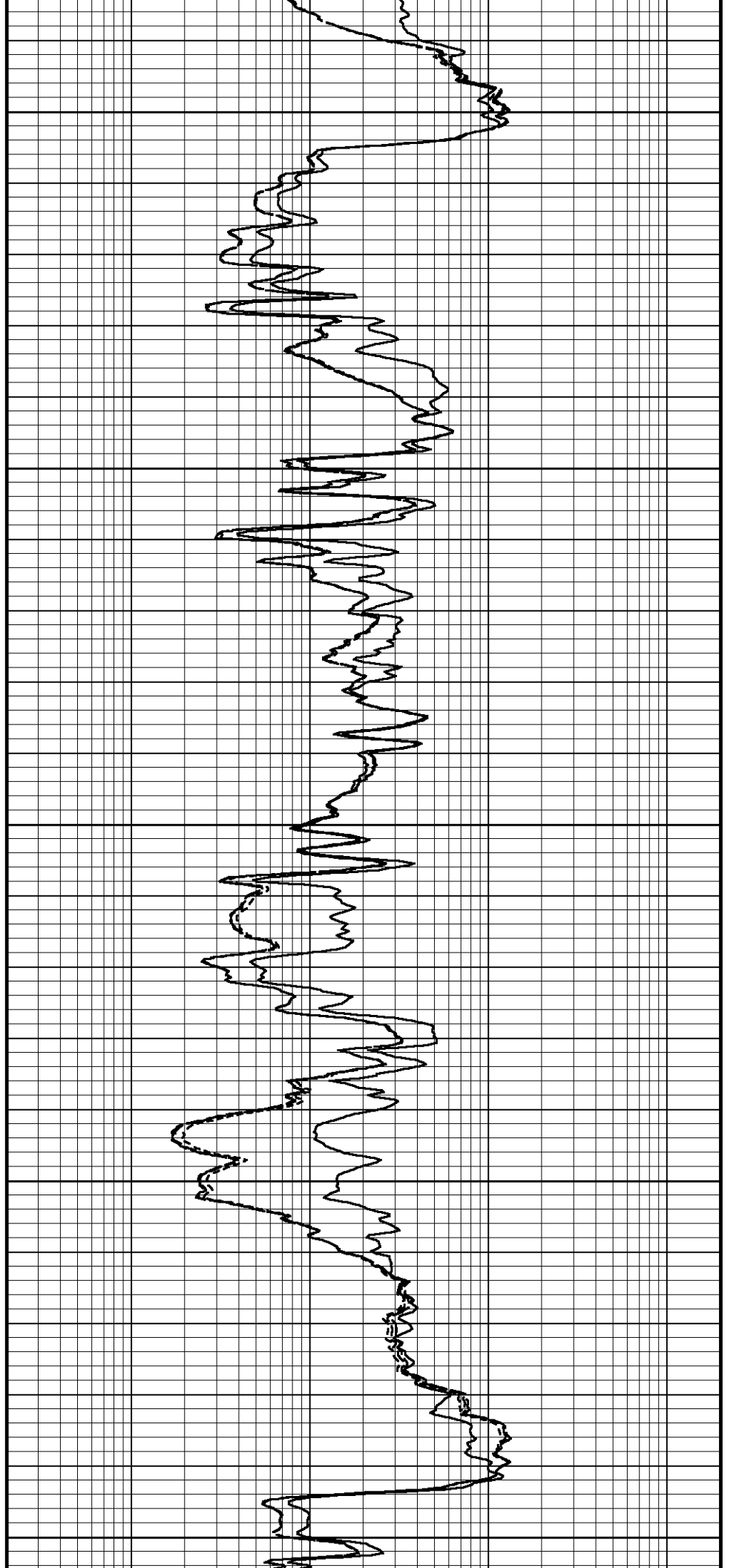
4500

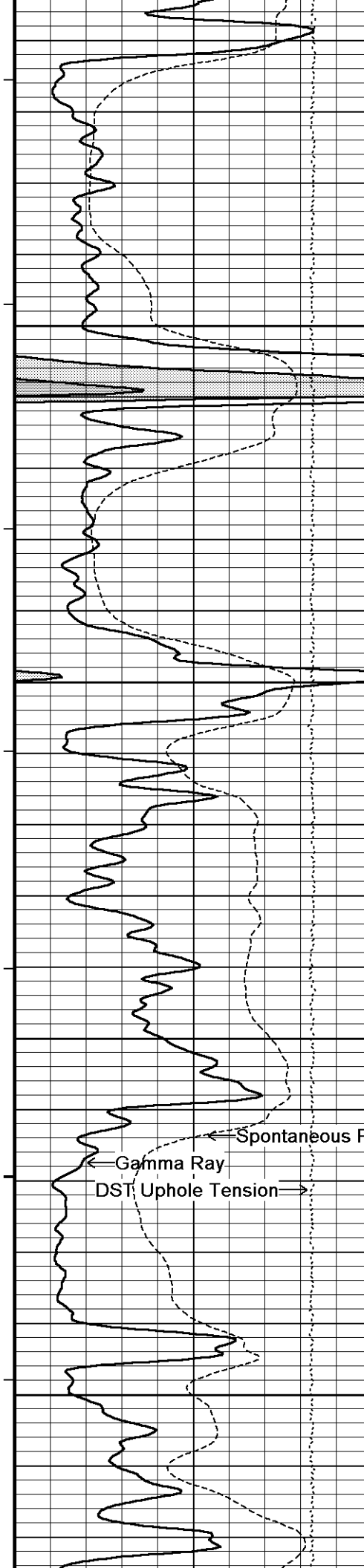
126°

4550

126°

4600





127°

4650

128°

4700

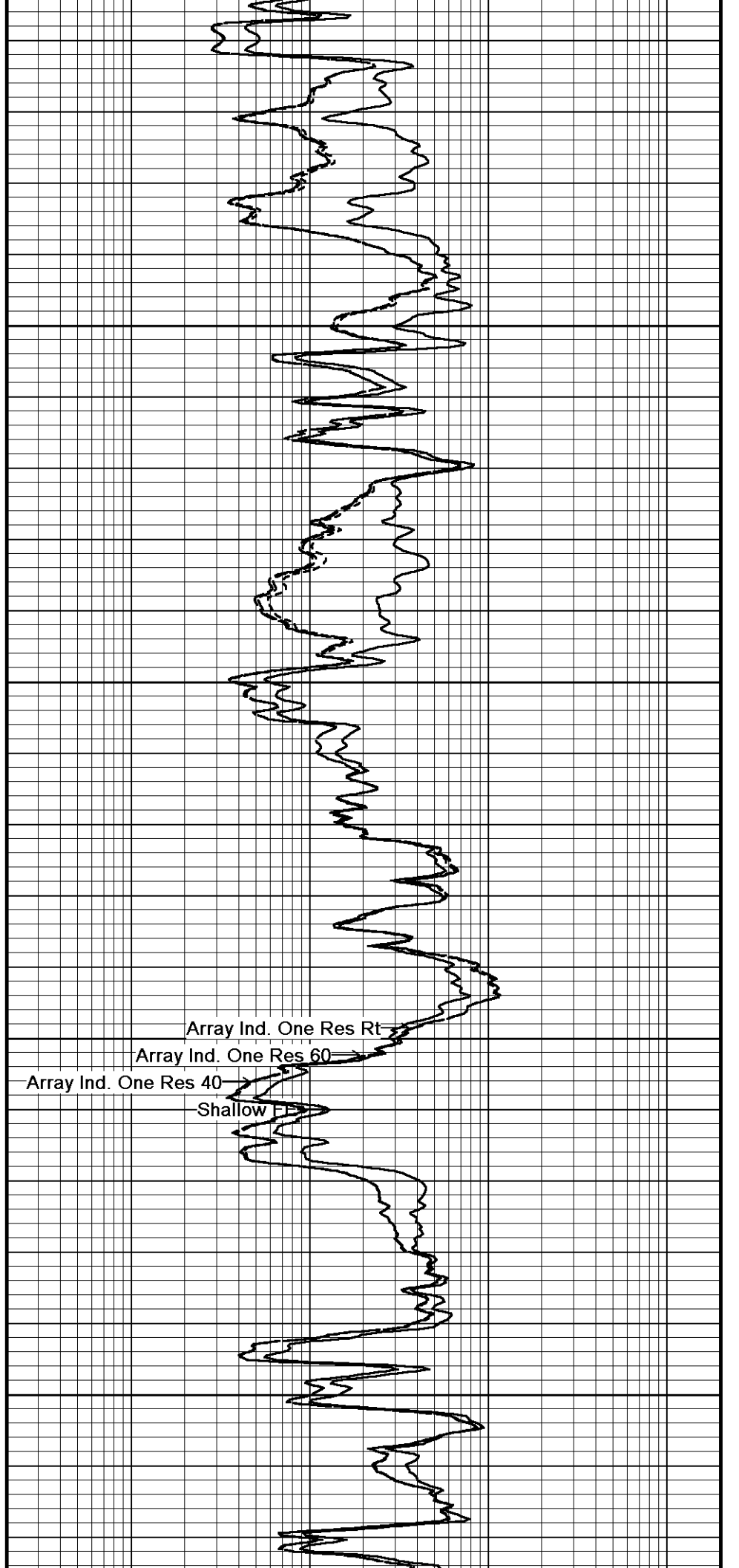
128°

4750

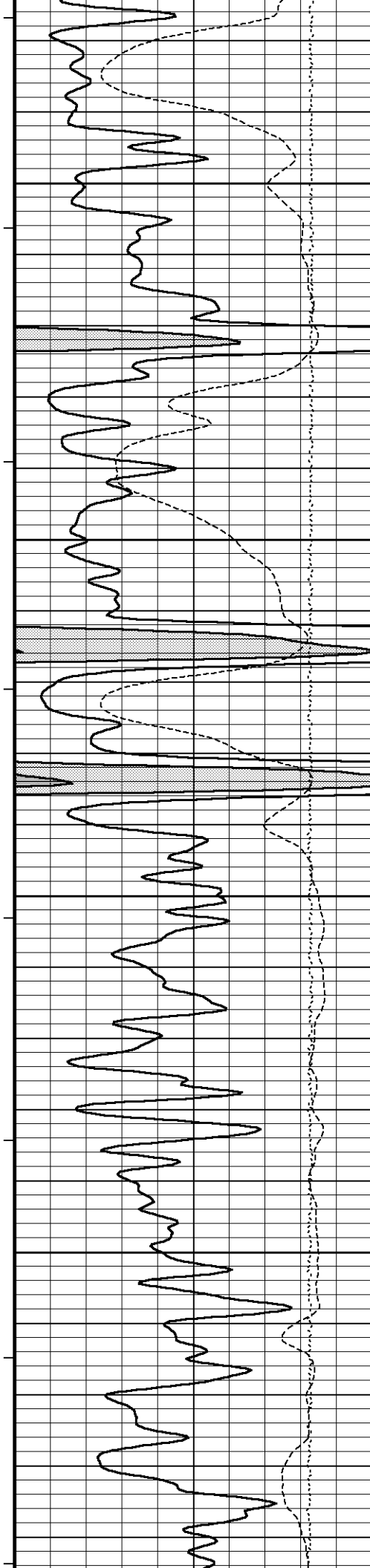
130°

4800

← Gamma Ray
DST Uphole Tension →
← Spontaneous Potential



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



131°

4850

131°

4900

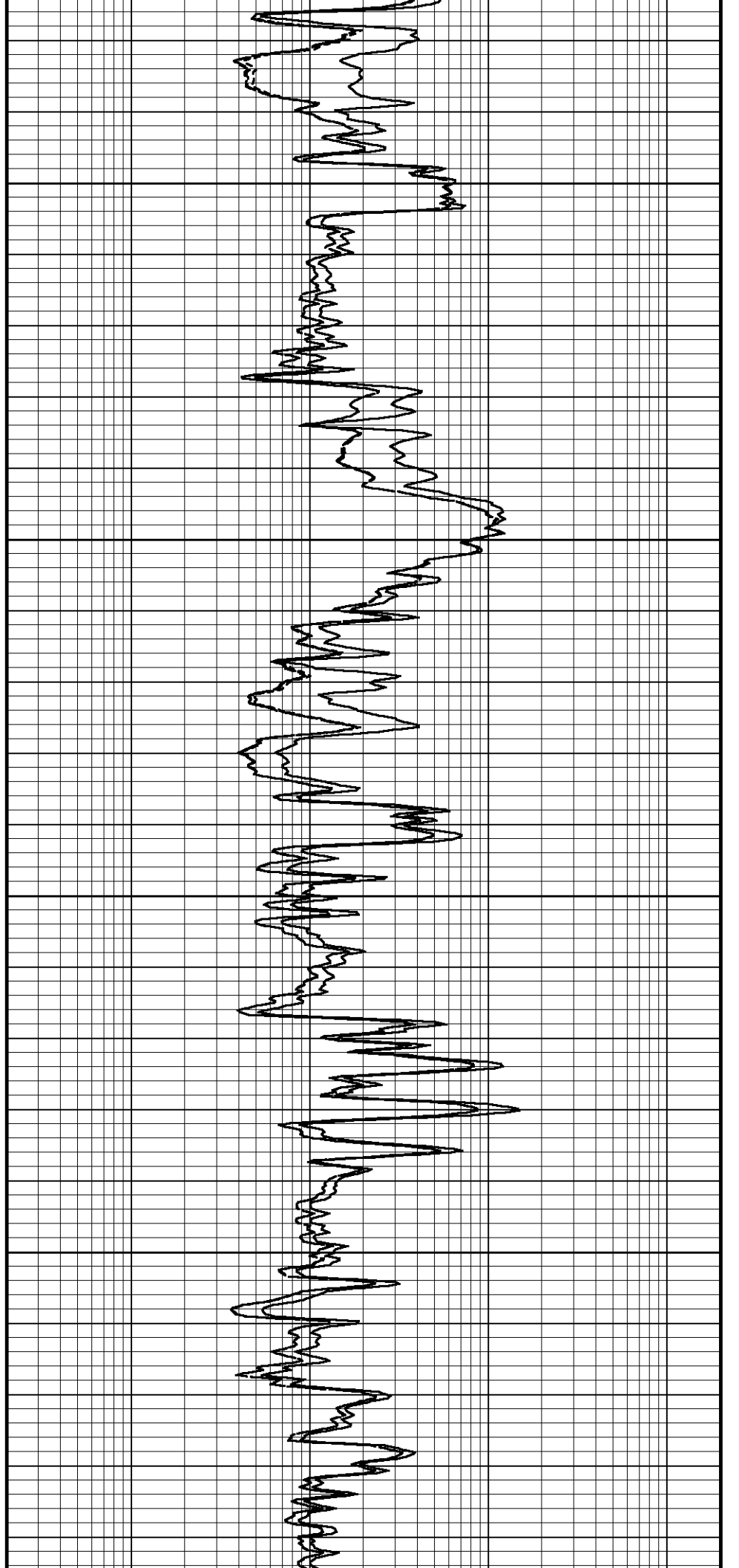
132°

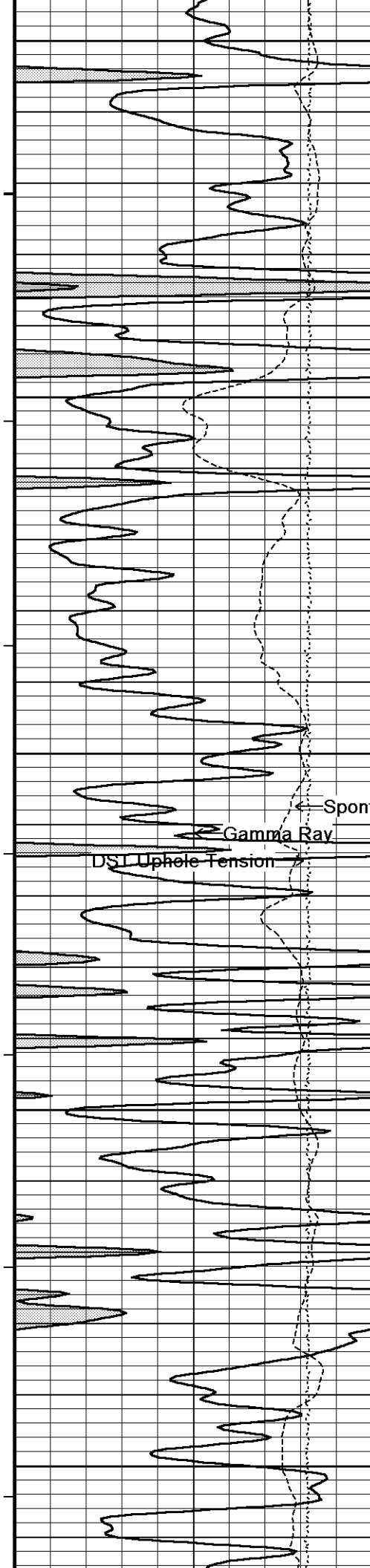
4950

133°

5000

133°





5050

134°

5100

135°

5150

← Spontaneous Potential

← Gamma Ray

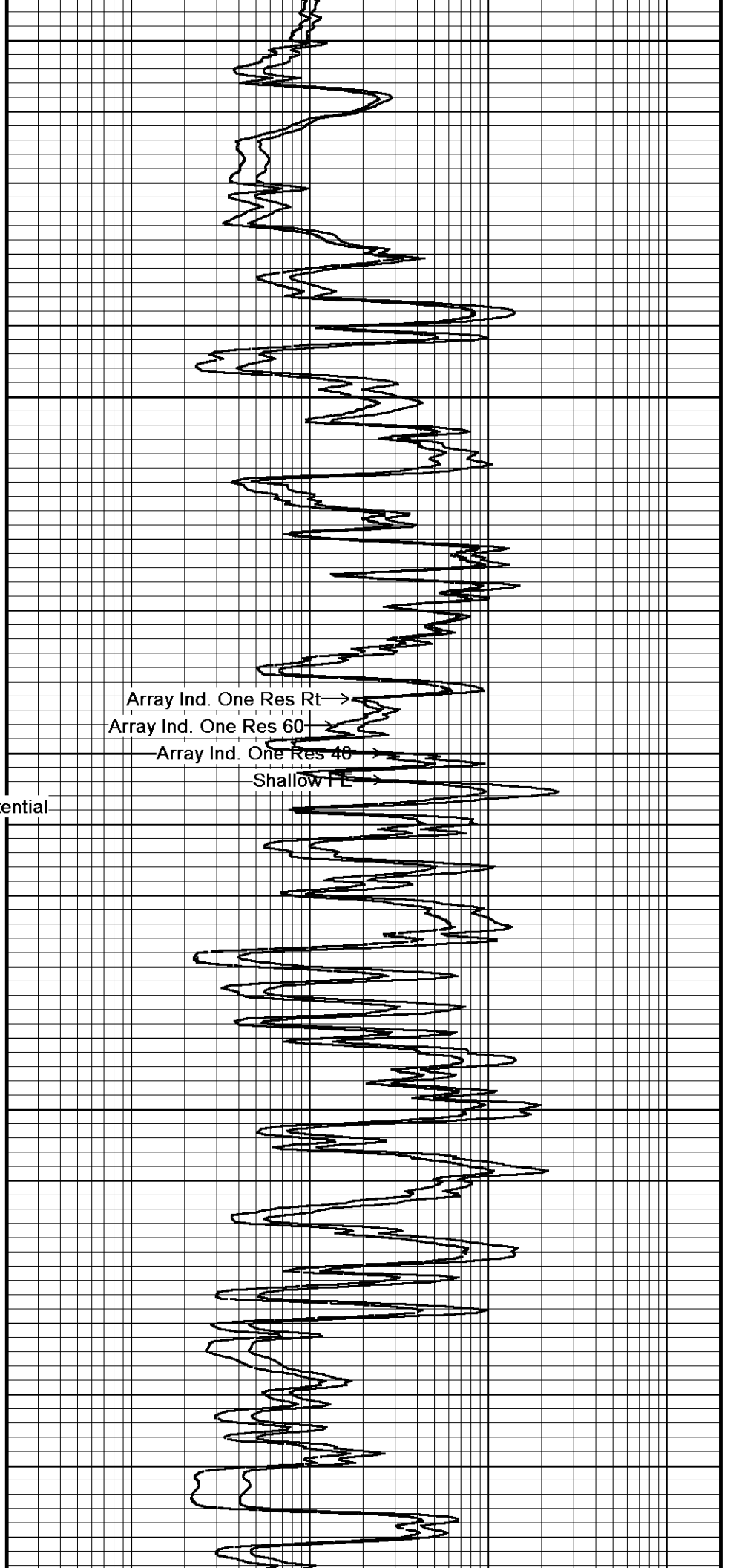
← DST Uphole Tension

136°

5200

137°

5250

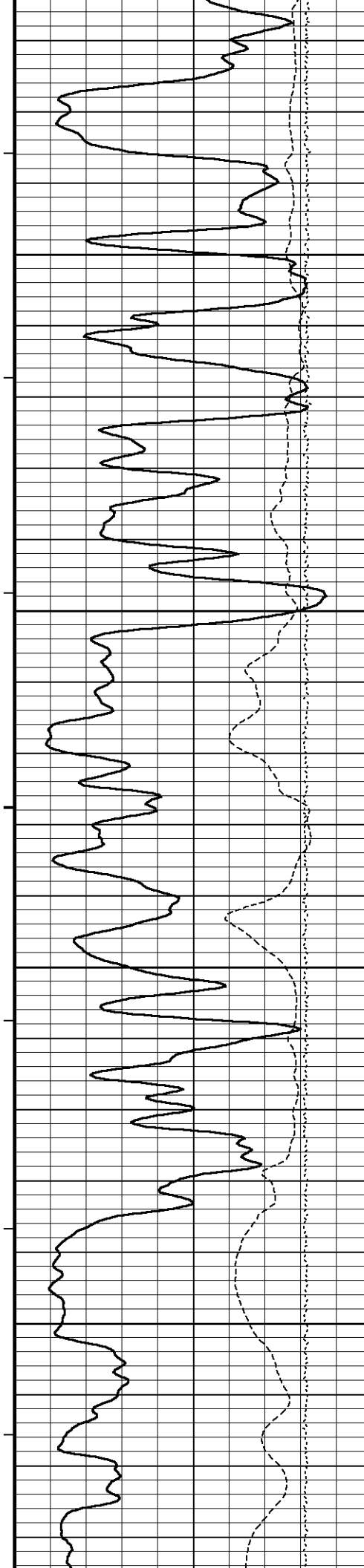


Array Ind. One Res Rt →

Array Ind. One Res 60 →

Array Ind. One Res 40 →

Shallow IE →



138°

5300

139°

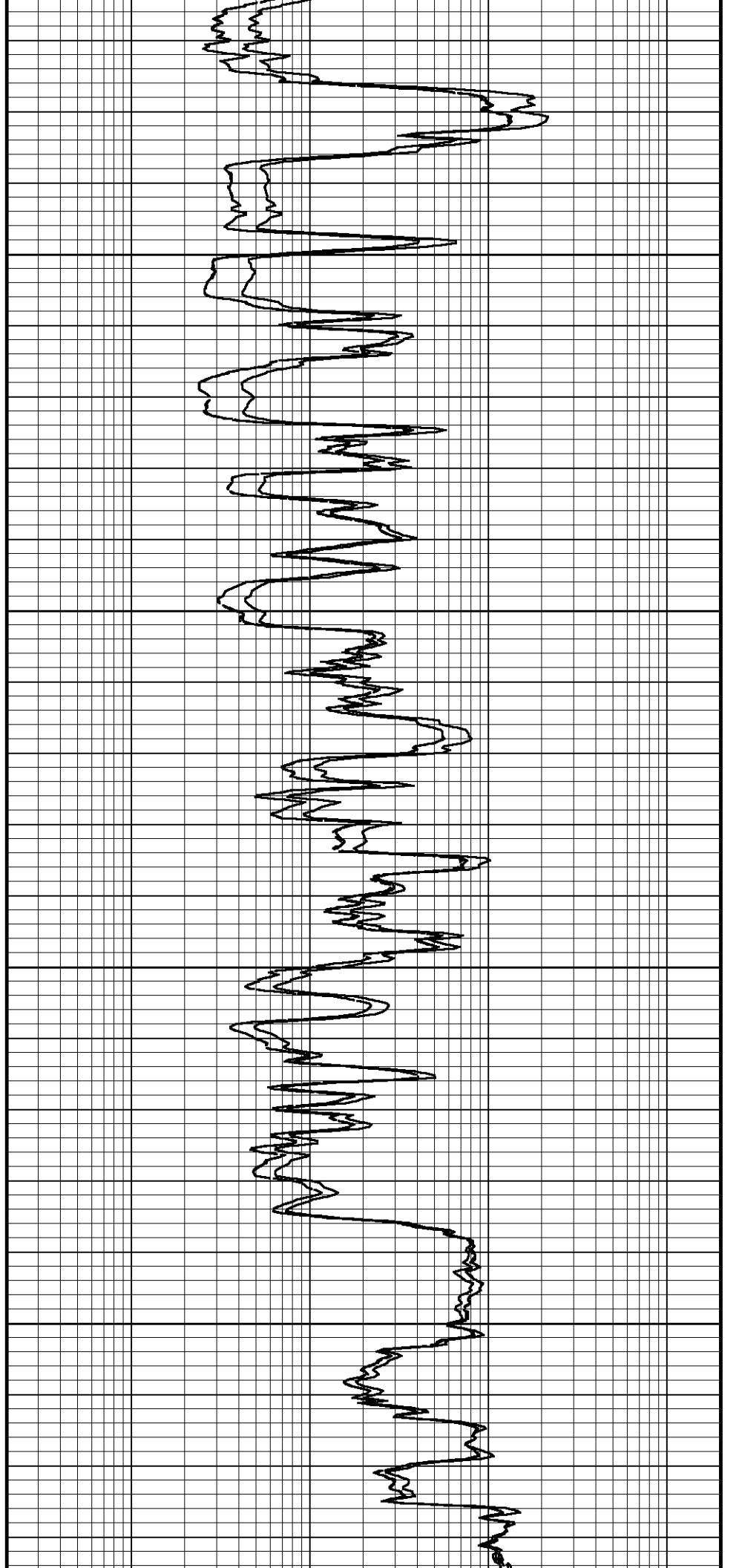
5350

139°

5400

140°

5450



139°

5500

FR Gamma Ray

5550 Spontaneous Potential

DST Uphole Tension

FR DST Uphole Tension

FR Spontaneous Potential

Array Ind. One Res Rt

Array Ind. One Res 60

Array Ind. One Res 40

Shallow FE

FR ArrFR Array Ind. One Res 40

5594

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 1:240

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 05-JUL-2011 19:16

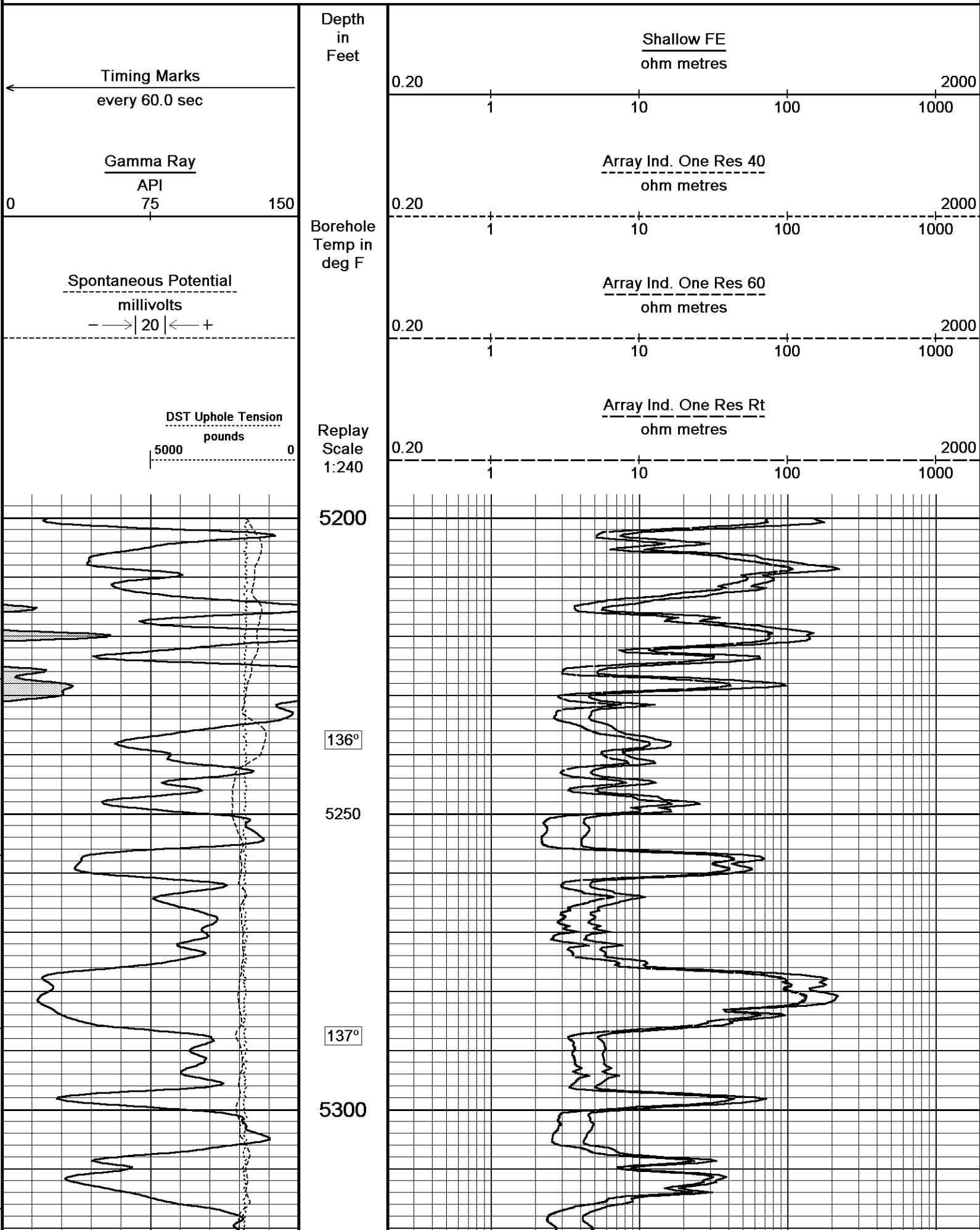
Filename: C:\Minimus 11.02.3186\Data\Oxy Elizabeth A. Cox #6\Oxy Elizabeth A. Cox #6_004.dta

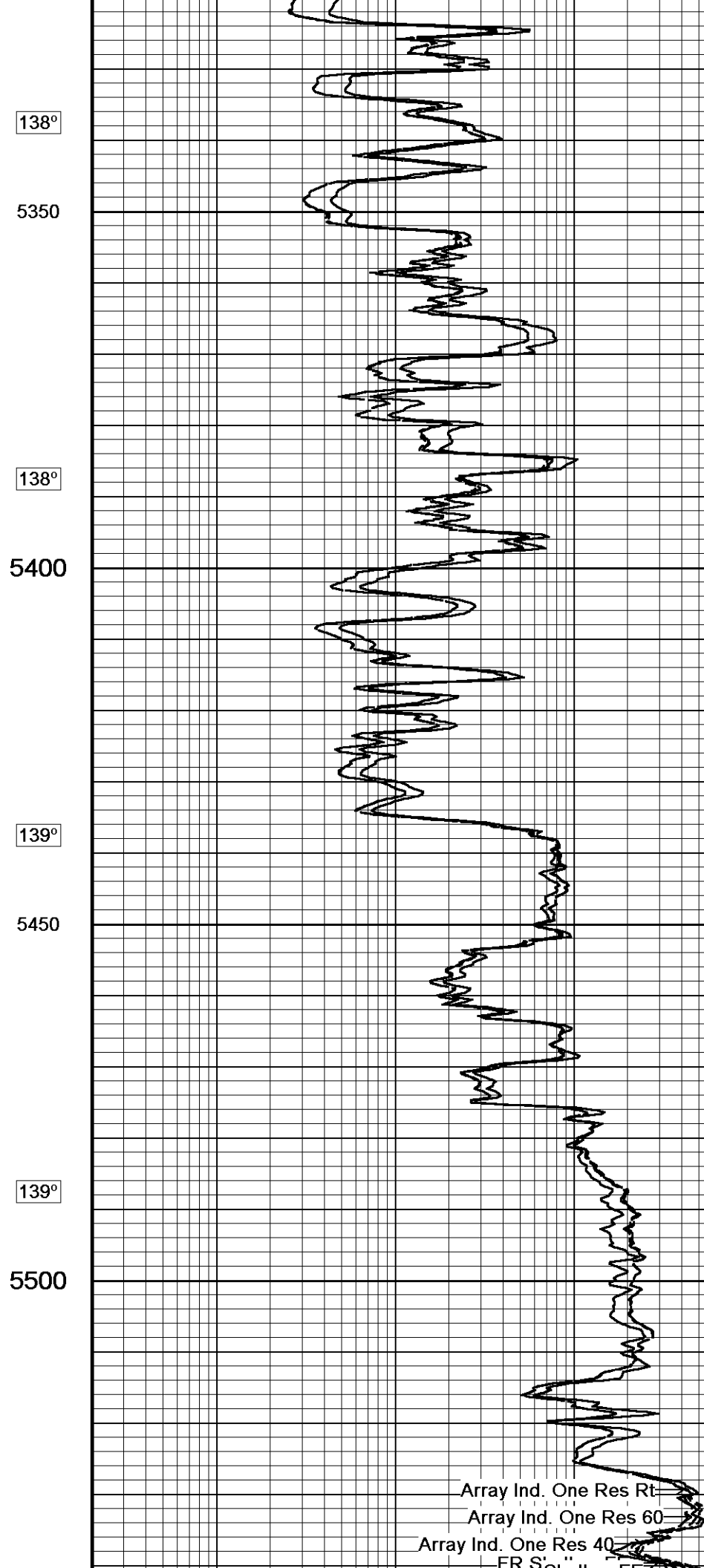
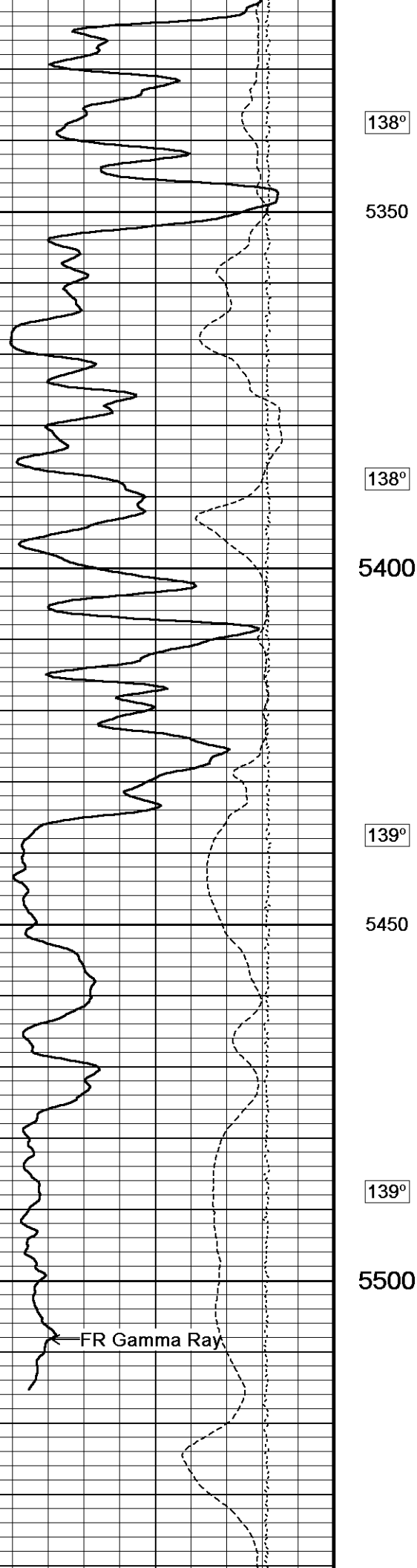
Recorded on 05-JUL-2011 16:55

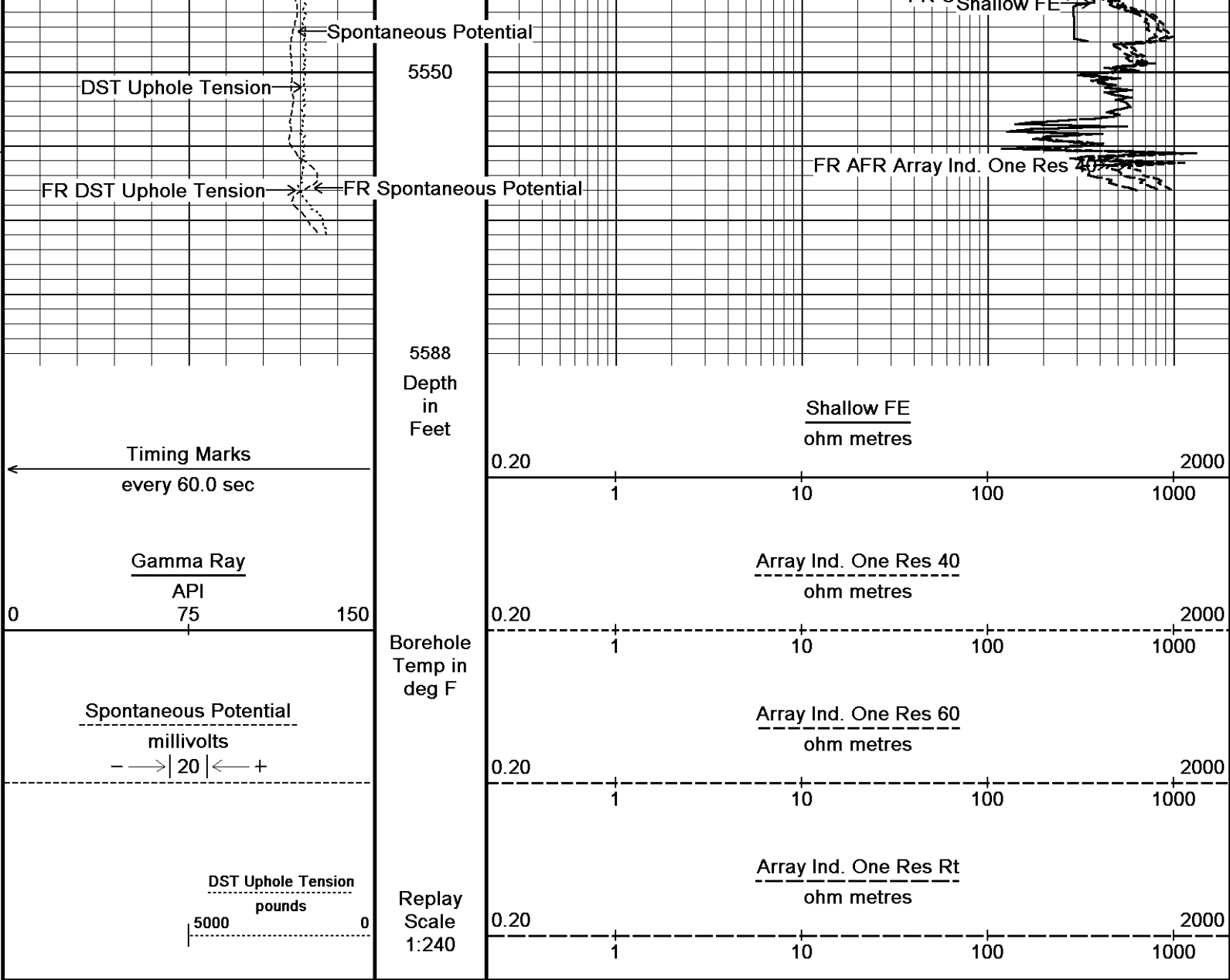
System Versions: Logged with 11.02.3186 Plotted with 11.02.3186

5 INCH MAIN PASS

5 INCH REPEAT PASS







Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 05-JUL-2011 19:16
 Filename: C:\Minimus 11.02.3186\Data\Oxy Elizabeth A. Cox #6\Oxy Elizabeth A. Cox #6_003.dta Recorded on 05-JUL-2011 16:18
 System Versions: Logged with 11.02.3186 Plotted with 11.02.3186

↑ **5 INCH REPEAT PASS** ↑

BEFORE SURVEY CALIBRATION

C:\Minimus 11.02.3186\Data\Oxy Elizabeth A. Cox #6\Oxy Elizabeth A. Cox #6_004.dta

General Constants All 000

Last Edited on 05-JUL-2011,10:26

General Parameters

Mud Resistivity	1.370	ohm-metres
Mud Resistivity Temperature	84.000	degrees F
Water Level	0.000	feet
Density/Neutron Processing	Wet Hole	

Hole/Annular Volume and Differential Caliper Parameters

HVOL Method	Single Caliper	
HVOL Caliper 1	Density Caliper	
HVOL Caliper 2	N/A	
Annular Volume Diameter	7.000	inches
Caliper for Differential Caliper	Density Caliper	

Rwa Parameters

Porosity used	Base Density Porosity
Resistivity used	Array Ind. One Res Rt

Resistivity (ohm-ft) Array Ind: One Res Rt 0.610
 RWA Constant A 2.150
 RWA Constant M

Down-hole Tension Calibration SMS 0			Field Calibration on 05-JUN-2011 04:37
Reading No	Measured	Calibrated (lbs)	
1	13499.89	0.00	
2	14983.70	496.00	

High Resolution Temperature Calibration MCG-B 34			Field Calibration on 05-MAR-2011,23:56
	Measured	Calibrated(Deg F)	
Lower	50.00	50.00	
Upper	75.00	75.00	

High Resolution Temperature Constants MCG-B 34		Last Edited on
Pre-filter Length	11	

SP Calibration MCG-B 34			Field Calibration on 20-APR-2011 14:53
	Measured	Calibrated (mV)	
Reference 1	106.7	100.0	
Reference 2	-95.0	-100.0	

Gamma Calibration MCG-B 34			Field Calibration on 04-JUL-2011 17:52
	Measured	Calibrated (API)	
Background	68	48	
Calibrator (Gross)	1100	773	
Calibrator (Net)	1033	725	

Gamma Constants MCG-B 34			Last Edited on 05-JUL-2011,10:27
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 4					Base Calibration on 16-MAY-2011 09:23 Field Check on 04-JUL-2011 17:17
Base Calibration					
Channel		Measured	Calibrated (ohm-m)		
	Resistor 1	Resistor 2	Resistor 1	Resistor 2	
Micro Normal	12.1	60.1	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	32.2		32.2		
Micro Inverse	16.3		16.3		

Micro Normal and Micro Inverse Constants MML-A 4			Last Edited on 05-JUL-2011,10:27
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 4			Base Calibration on 16-MAY-2011 09:38 Field Calibration on 04-JUL-2011 17:54
Base Calibration			
Reading No	Measured	Calibrator Size (in)	
1	14953	5.98	
2	18280	7.97	
3	21656	9.86	
4	25588	11.92	
5	0	0.00	
6	N/A	N/A	
Field Calibration			
	Measured Caliper (in)	Actual Caliper (in)	
	6.10	5.98	

Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	3269	103	3714	110
Ratio	31.795		33.764	

Field Calibrator at Base

	Calibrated (cps)
	1562 2227
Ratio	0.701

Field Check

	Calibrated (cps)
	1585 2221
Ratio	0.714

Neutron Constants MDN-A.B 65

Last Edited on 05-JUL-2011,10:28

Neutron Source Id	757	
Neutron Jig Number	5824NE	
Epithermal Neutron	No	
Caliper Source for Processing	Density Caliper	
Stand-off	0.00	inches
Mud Density	1.00	gm/cc
Limestone Sigma	7.10	cu
Sandstone Sigma	4.26	cu
Dolomite Sigma	4.70	cu
Formation Pressure Source	None	
Formation Pressure	N/A	kpsi
Temperature Source	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 21-JUN-2011 10:19

Field Check on 04-JUL-2011 17:15

Base Calibration

	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	953.6	126.8
Base Check		281.3
Field Check		281.3

FE Constants MFE-A.A 55

Last Edited on 05-JUL-2011,10:28

Running Mode	No Sleeve	
MFE K Factor	0.1268	
Caliper Source for FE correction	Density Caliper	
Caliper Value for FE correction	N/A	inches
Rm Source for FE correction	Temperature Corr	
Temp. for Rm Corr.	MCG External Temperature	
Stand-off	0.5	inches

Sonic Constants MSS-A.A 126

Last Edited on 05-JUL-2011,10:29

Maximum Boundary Contrast	100.00	micro-sec/ft
Fluid Transit Time	189.00	micro-sec/ft
Limestone Transit Time	47.50	micro-sec/ft
Sandstone Transit Time	55.50	micro-sec/ft
Dolomite Transit Time	43.50	micro-sec/ft
Sonic used for Porosities	3-5' Compensated Sonic	
Correction for Sonde Skew	Applied	
Cycle Stretch Algorithm	Applied	
MN3FT	N/A	micro-sec
MX3FT	N/A	micro-sec
Hunt-Raymer Constant	83.13	micro-sec/ft

Sonde Mode Compensated

Hole Type

Open Hole

Sonde Parameters

	Measured	Calibrated
Offset	N/A	0.0000
Free Pipe	N/A	N/A
Peak Amplitude Source		N/A

Waveform	Start Time (micro-sec)	Width (micro-sec)	Pre Gain	Start Gain	Discriminator (mV)
3'	N/A	N/A	N/A	N/A	N/A
4'	N/A	N/A	N/A	N/A	N/A
5'	N/A	N/A	N/A	N/A	N/A
6'	N/A	N/A	N/A	N/A	N/A

Processed Fixed Gate Parameters

Waveform Used For Processing	N/A			
Start Time (micro-sec)	End Time (micro-sec)	Discriminator (mV)	N/A	
N/A	N/A	N/A		
N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	

Full Waveform Parameters

Use 3' Waveform to derive TR	N/A	
Use 4' Waveform to derive TR	N/A	
Use 5' Waveform to derive TR	N/A	
Use 6' Waveform to derive TR	N/A	
3' Waveform Discriminator Level	N/A	mV
4' Waveform Discriminator Level	N/A	mV
5' Waveform Discriminator Level	N/A	mV
6' Waveform Discriminator Level	N/A	mV
3' Waveform Filter	N/A	
4' Waveform Filter	N/A	
5' Waveform Filter	N/A	
6' Waveform Filter	N/A	
Semblance Level	N/A	
Semblance Window Width	N/A	micro-sec
Sonic 1 Despiker	N/A	N/A
Sonic 2 Despiker	N/A	N/A

High Resolution Temperature Calibration MAI-A.A 45

Field Calibration on 13-AUG-2010,13:31

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

High Resolution Temperature Constants MAI-A.A 45

Last Edited on

Pre-filter Length	11
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Induction Calibration MAI-A.A 45

Base Calibration on 13-AUG-2010,13:32
Field Check on 04-JUL-2011 17:13

Base Calibration

Test Loop Calibration	Channel	Measured		Calibrated (mmho/m)	
		Low	High	Low	High
	1	14.5	473.5	9.3	966.2
	2	5.2	373.4	7.6	821.4
	3	2.8	260.6	5.2	566.0
	4	1.6	132.2	2.6	279.2

Array Temperature 86.2 Deg F

Channel	Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High
1	0.0	0.0	20.2	3846.1
2	0.0	0.0	33.4	3631.8
3	0.0	0.0	30.3	3050.4
4	0.0	0.0	20.6	2093.8

Deep	0.0	0.0	18.2	1920.5
Medium	0.0	0.0	43.5	4051.0
Shallow	0.0	0.0	50.7	5475.8
Array Temperature		0.0	92.2	Deg F

Induction Constants MAI-A.A 45

Last Edited on 05-JUL-2011,10:29

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 01-JUL-2011 18:46
Field Calibration on 04-JUL-2011 18:03

Base Calibration			
Reading No		Measured	Calibrator Size (in)
1		13710	3.99
2		22224	5.98
3		30784	7.97
4		39184	9.86
5		48352	11.92
6		N/A	N/A
Field Calibration			
		Measured Caliper (in)	Actual Caliper (in)
		5.97	5.98

Photo Density Calibration MPD-B 65

Base Calibration on 02-JUL-2011 22:55
Field Check on 04-JUL-2011 18:02

Density Calibration				
Base Calibration		Measured	Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	50829	24574	59556	30836
Reference 2	20710	2286	24941	2541
Field Check at Base				
	1245.3	1199.3		

Field Check

1247.3 1189.8

PE Calibration

Base Calibration	WS	Measured WH	Ratio	Calibrated Ratio
Background	226	1107		
Reference 1	19076	50633	0.381	0.371
Reference 2	5565	20564	0.274	0.272
Field Check at Base	225.7	1107.0		
Field Check	226.2	1113.9		

Density Constants MPD-B 65

Last Edited on 05-JUL-2011,10:28

Density Source Id	254	
Nylon Calibrator Number	695	
Aluminium Calibrator Number	698	
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	
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	
0.00	0.00	

DOWNHOLE EQUIPMENT

C:\Minimus 11.02.3186\Data\Oxy Elizabeth A. Cox #6\Oxy Elizabeth A. Cox #6_004.dta

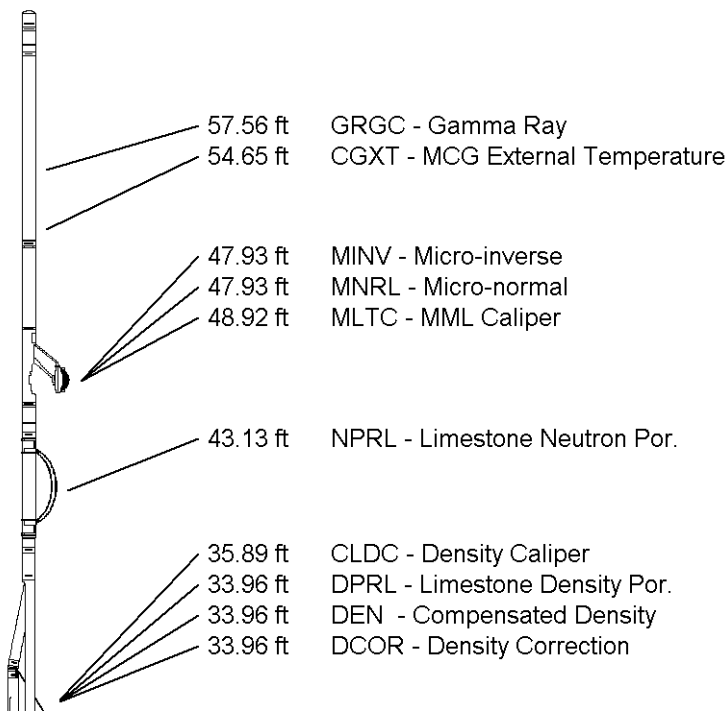
3/8" Triple Cone Cable Head (MCB C A)
MCB-C.A 5 LG: 1.58 ft WT: 15.4 lb OD: 2.24 in

Compact Comms Gamma
MCG-B 34 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-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



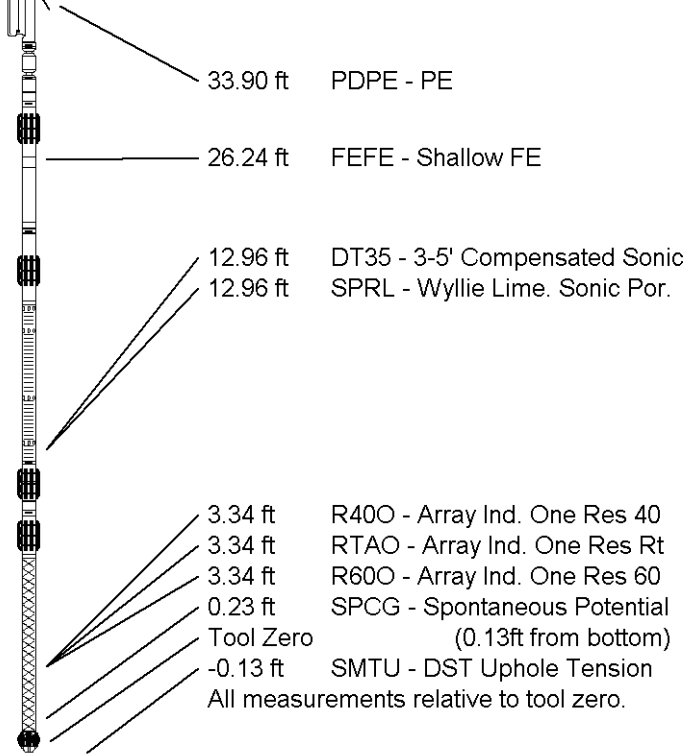
SKJ-D.A Compact Knuckle Joint
SKJ-D.A 37 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

Compact Focussed Electric
MFE-A.A 55 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

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

Compact Induction
MAI-A.A 45 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 64.42 ft Weight: 496.0 lb

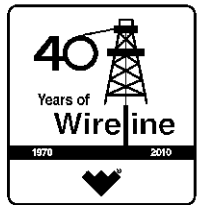


COMPANY OXY USA, INC.
WELL ELIZABETH A. COX #6
FIELD VICTORY
PROVINCE/COUNTY HASKELL
COUNTRY/STATE U.S.A. / KANSAS

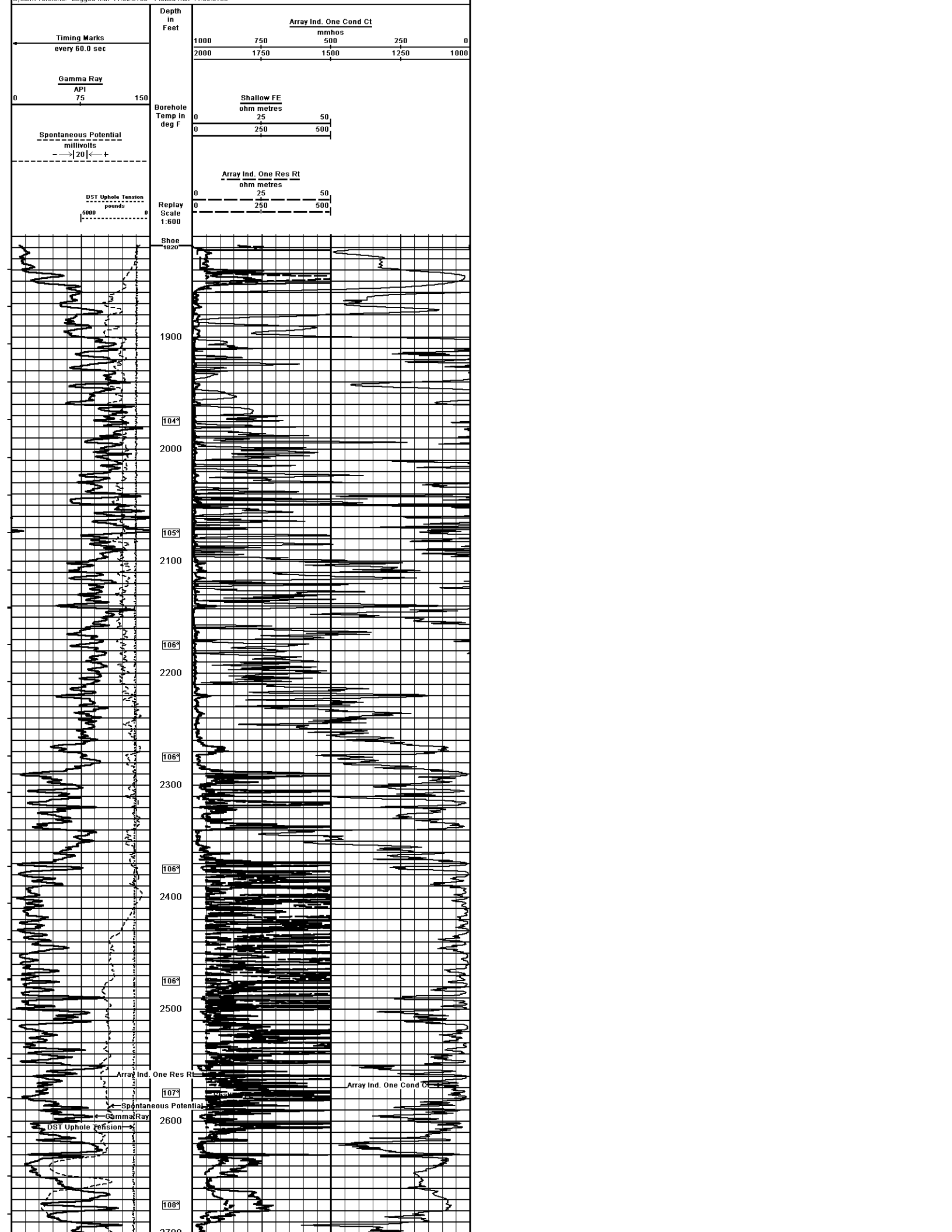
Elevation Kelly Bushing	2979.00	feet	First Reading	5563.00	feet
Elevation Drill Floor	2977.00	feet	Depth Driller	5560.00	feet
Elevation Ground Level	2968.00	feet	Depth Logger	5566.00	feet

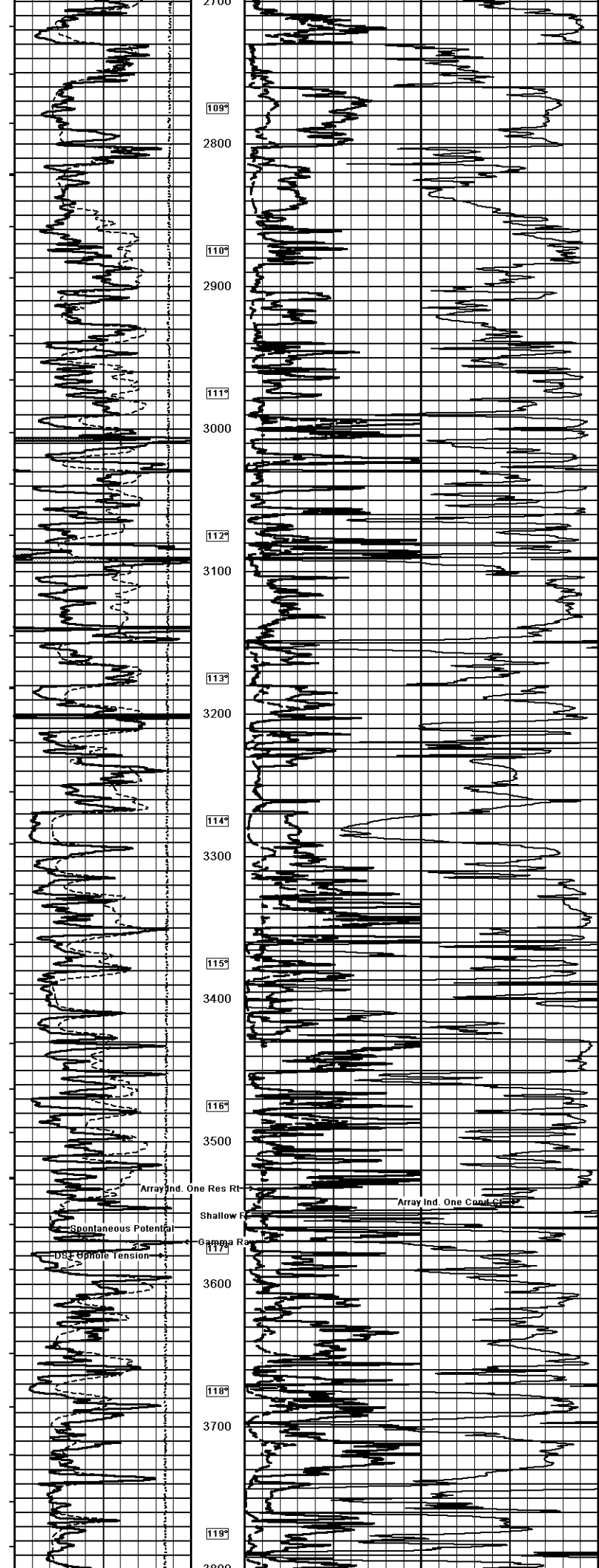


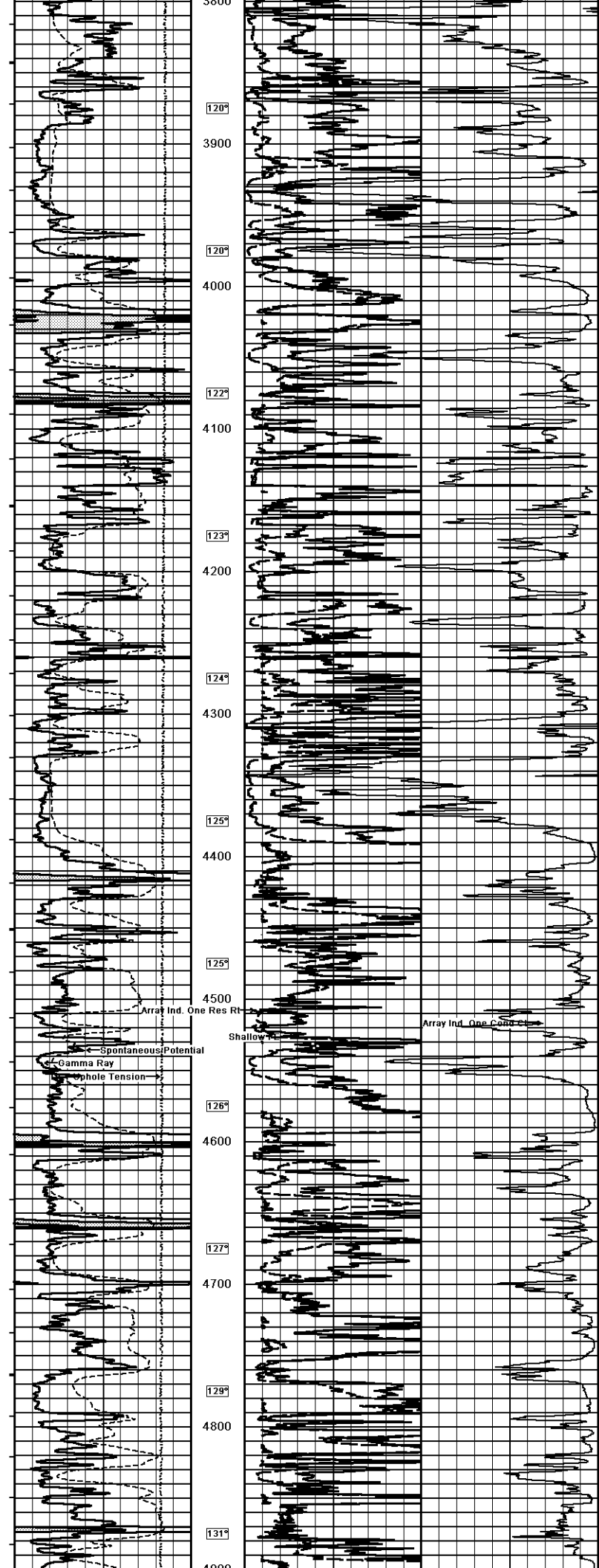
**ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG**

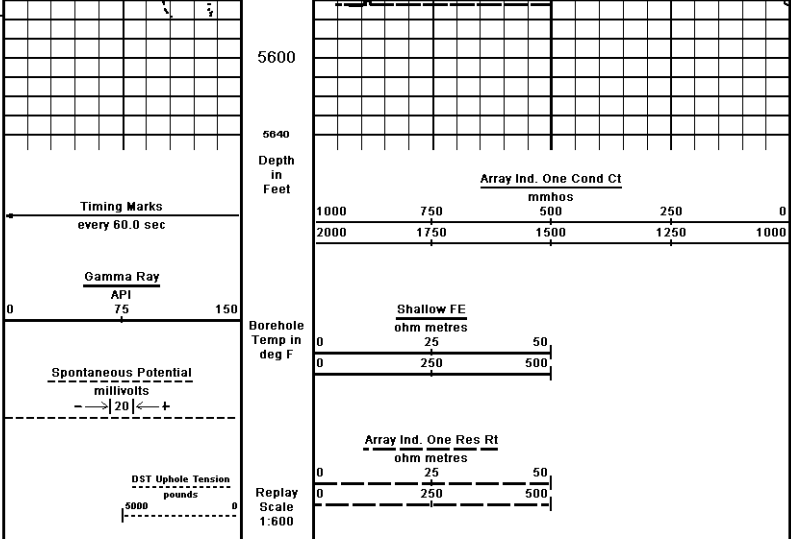
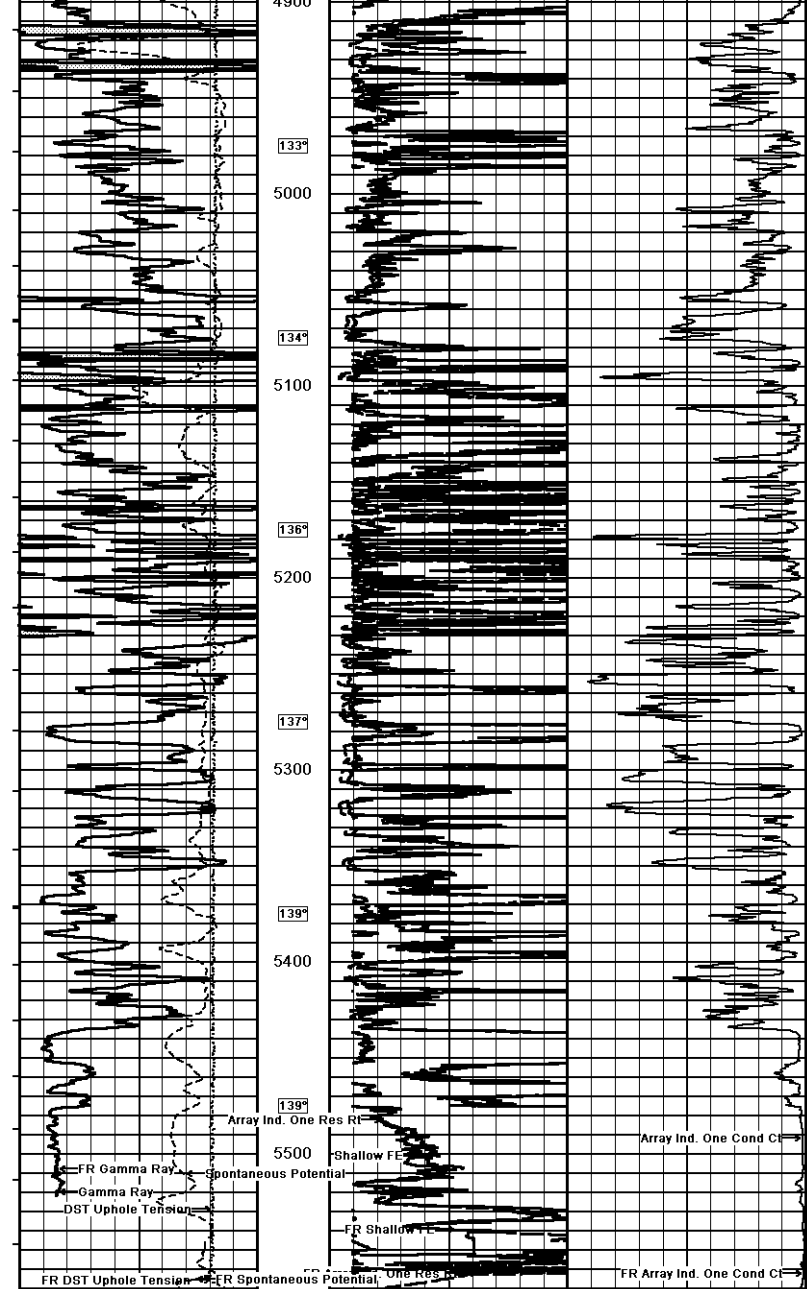


Weatherford		ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG	
COMPANY: OXY USA, INC. WELL: ELIZABETH A. COX #6 FIELD: VICTORY PROVINCE/COUNTY: HASKELL COUNTRY/STATE: U.S.A. / KANSAS LOCATION: 2080' FSL & 1230' FEL		SEC: 30S TWP: 33W R: 30E Other Services: MWD/IN/PPD Well Number: 15-081-21943 MSS	
Permanent Datum 0.L. Elevation 2968 feet Log Measured From K.B. @ 11 FEET above Permanent Datum Drilling Measured From K.B.			
Date	05-JUL-2011	Revisions:	1st
Run Number	ONE	HF	2971.00
Depth Driller	5560.00	DF	2977.00
Depth Logger	5563.00	QL	2968.00
FSL Reading	0.00		
SSL Reading	0.00		
Casing Driller	1915.00		
Casing Logger	1918.00		
Bit Size	8.750		
Fluid Type	CHEMICAL		
Density/Viscosity	9.10 lb/USg		
PH/Fluid Loss	10.40		
Sample Source	FLOWLINE		
Sm @ Measured Temp	1.37 @ 84.0		
Sm @ Measured Temp	1.11 @ 84.0		
Sm @ Measured Temp	1.04 @ 84.0		
Sm @ Measured Temp	0.84 @ 139.0		
Time since Circulation	5 HOURS		
Max Recorded Temp	140.00		
Equipment Name	COMPACT		
Equipment Base	1.3057		
Recorded By	A. GUERRALVO		
Missed By	KUSTIN GARNER		
COI/Job #	3531101		









Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 05-JUL-2011 19:16
 Filename: C:\Minimus 11.02.3186\Data\Oxy\Elizabeth A. Cox #6\Oxy Elizabeth A. Cox #6_004.dta
 Recorded on 05-JUL-2011 16:55
 System Versions: Logged with 11.02.3186 Plotted with 11.02.3186

↑ 1 INCH MAIN PASS ↓

COMPANY OXY USA, INC.
 WELL ELIZABETH A. COX #6
 FIELD VICTORY
 PROVINCE/COUNTY HASKELL
 COUNTRY/STATE U.S.A. / KANSAS

Elevation Kelly Bushing	2979.00	feet	First Reading	5563.00	feet
Elevation Drill Floor	2877.00	feet	Depth Driller	5560.00	feet
Elevation Ground Level	2968.00	feet	Depth Logger	5566.00	feet



ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG

