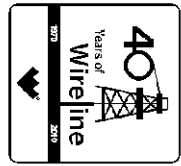




Weatherford[®]

ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG

COMPANY GRAND MESA OPERATING COMPANY
 WELL DALE #2-34
 FIELD WILDCAT
 PROVINCE/COUNTY LOGAN
 COUNTRY/STATE U.S.A. / KANSAS
 LOCATION 478' FNL & 357' FEL



SEC 34 TWP 12S RGE 32W Other Services MDN/MPD MML
 API Number 15-109-21012
 Permit Number

Permanent Datum G.L., Elevation 2990 feet
 Log Measured From K.B. @ 5 FEET above Permanent Datum
 Drilling Measured From K.B.

Elevations: KB 2995.00
 DF 2993.00
 GL 2990.00

Date	02-JUL-2011
Run Number	ONE
Depth Driller	4730.00 feet
Depth Logger	4728.00 feet
First Reading	4725.00 feet
Last Reading	0.00 feet
Casing Driller	222.00 feet
Casing Logger	220.00 feet
Bit Size	7.875 inches
Hole Fluid Type	CHEMICAL
Density / Viscosity	9.30 lb/USg 63.00 CP
PH / Fluid Loss	10.00 8.00 ml/30Min
Sample Source	FLOWLINE
Rm @ Measured Temp	1.22 @ 93.0 ohm-m
Rmf @ Measured Temp	0.98 @ 93.0 ohm-m
Rmc @ Measured Temp	1.46 @ 93.0 ohm-m
Source Rmf / Rmc	CALC CALC
Rm @ BHT	0.95 @ 121.0 ohm-m
Time Since Circulation	5 HOURS
Max Recorded Temp	121.00 deg F
Equipment Name	COMPACT
Equipment / Base	13057 LIB
Recorded By	A. GIAMBALVO
Witnessed By	KENT MATSON
S.O. / JOB #	3531098 LB11-150

BOREHOLE RECORD Last Edited: 02-JUL-2011 16:54

Bit Size inches 7.875	Depth From feet 220.00	Depth To feet 4728.00
-----------------------------	------------------------------	-----------------------------

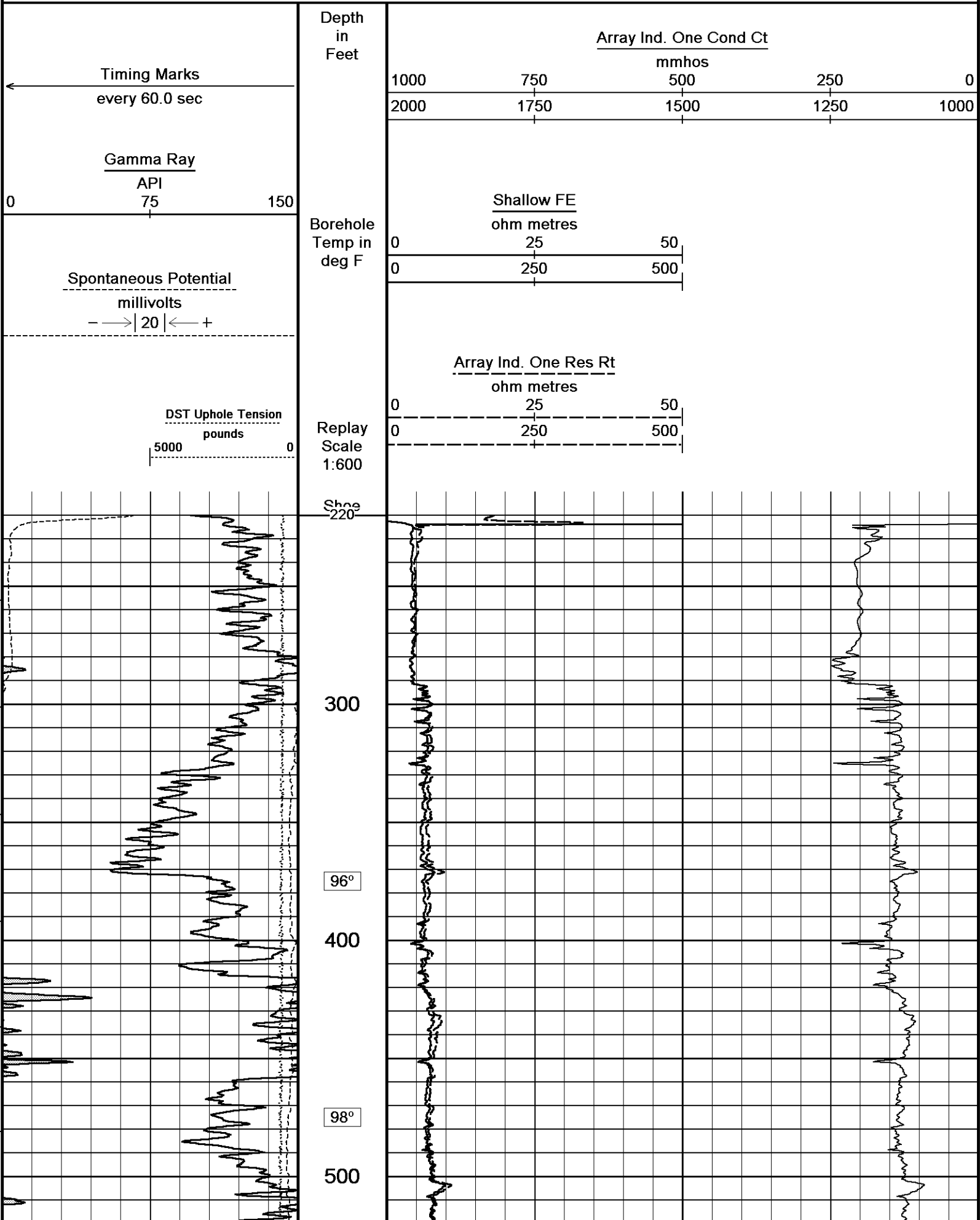
CASING RECORD

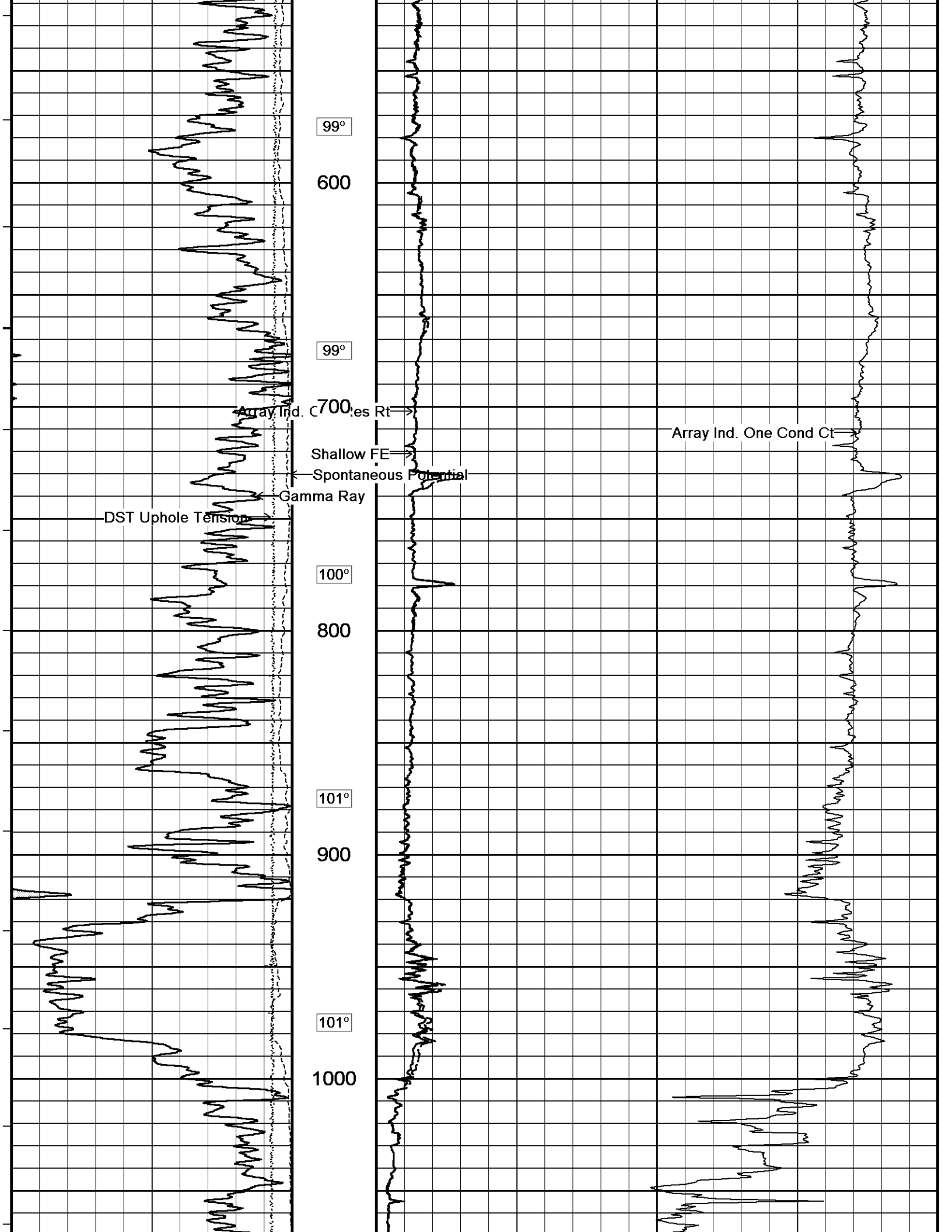
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	8.625	0.00	220.00	24.00

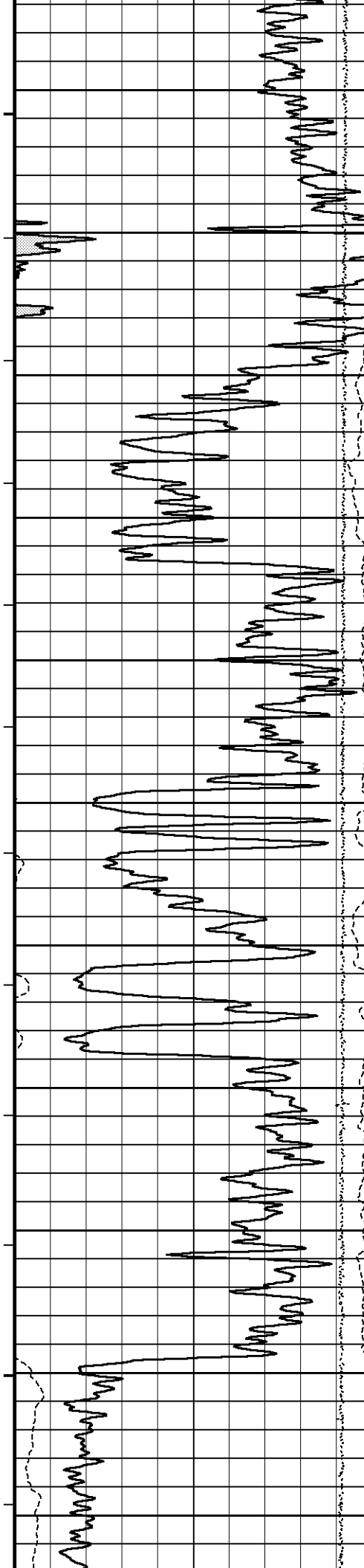
REMARKS

Tools Ran: MCG, MML, MDN, MPD, SKJ, MFE, MAI.
 Hardware Used: MDN Dual Eccentralizer used. MPD 8 inch profile plate used. MFE and MAI 0.5 inch standoffs used.
 2.71 g/cc Limestone Density Matrix used to calculate porosity.
 All intervals logged and scaled per customer's request.
 Annular volume with 5.5 inch production casing = 188 cu. ft.
 Service order #3531098
 Rig: Murfin Drilling Rig #24
 Engineer: A. Giambalvo
 Operator(s): M. Stegman

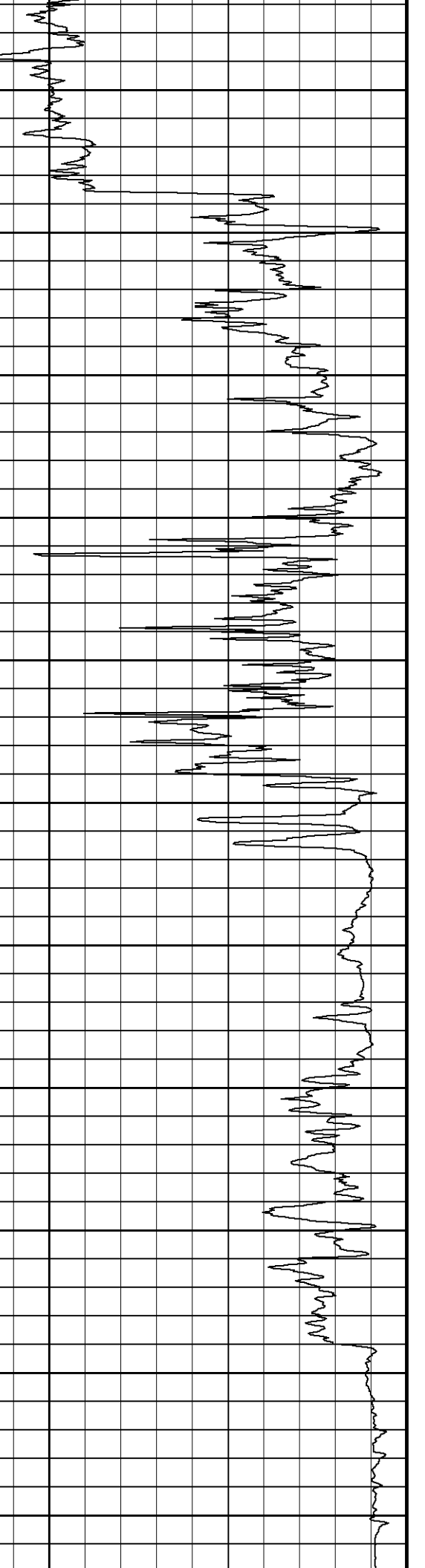
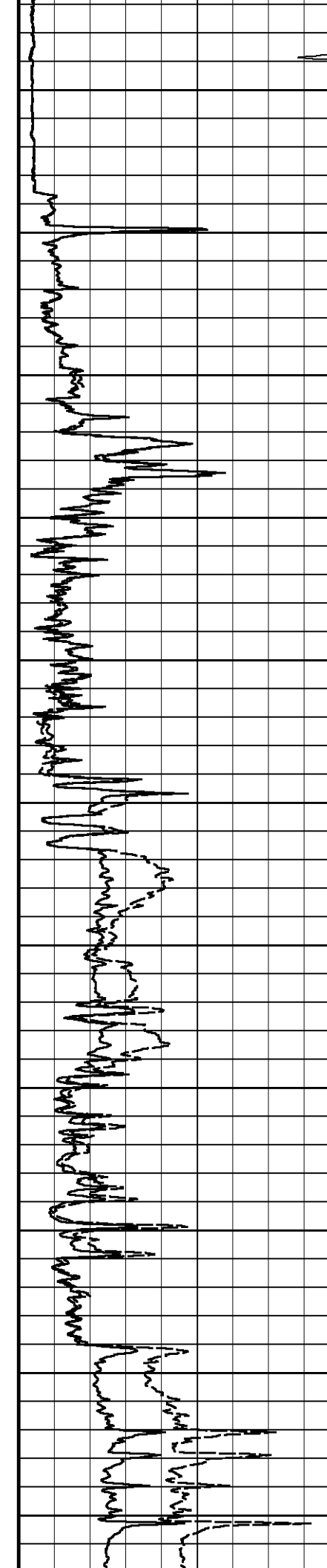
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

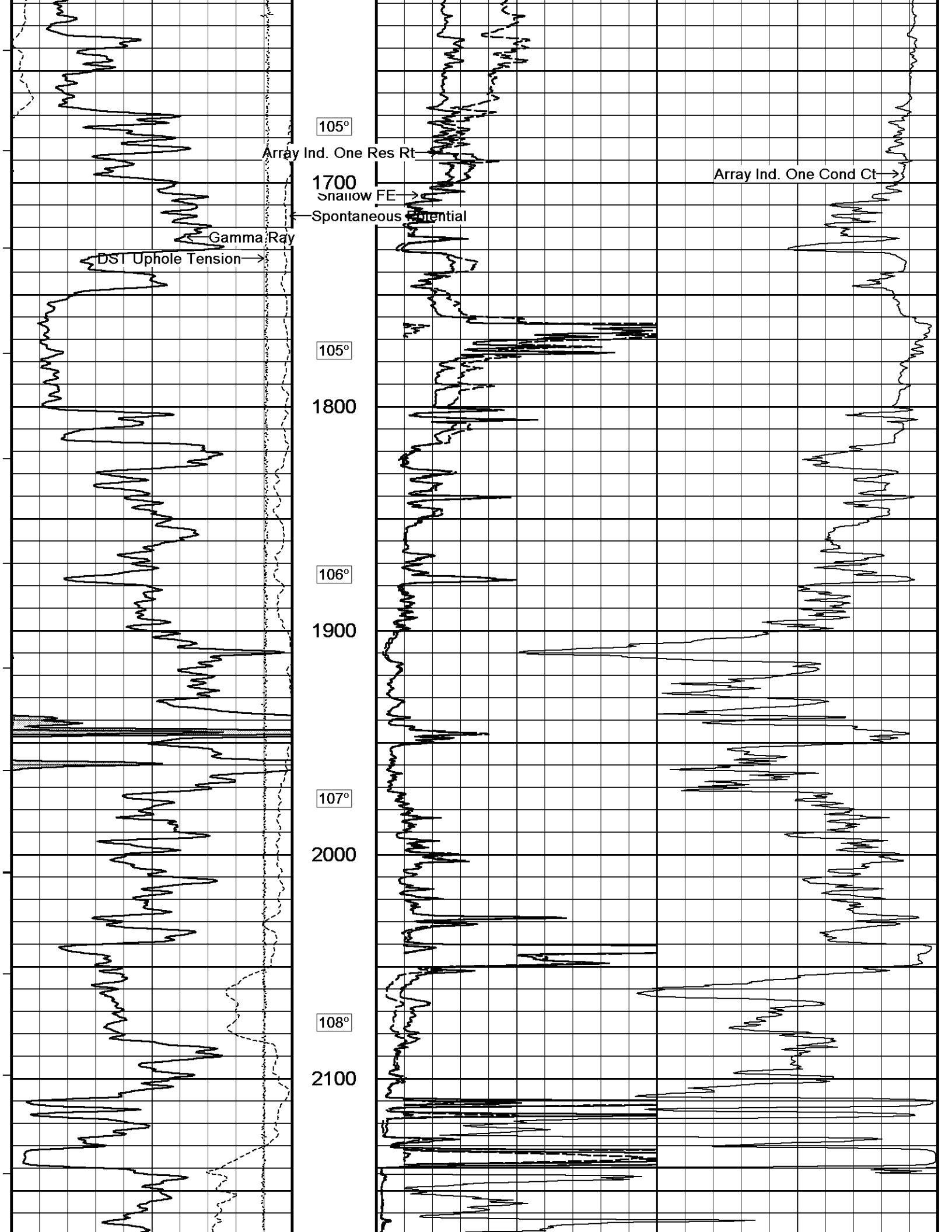


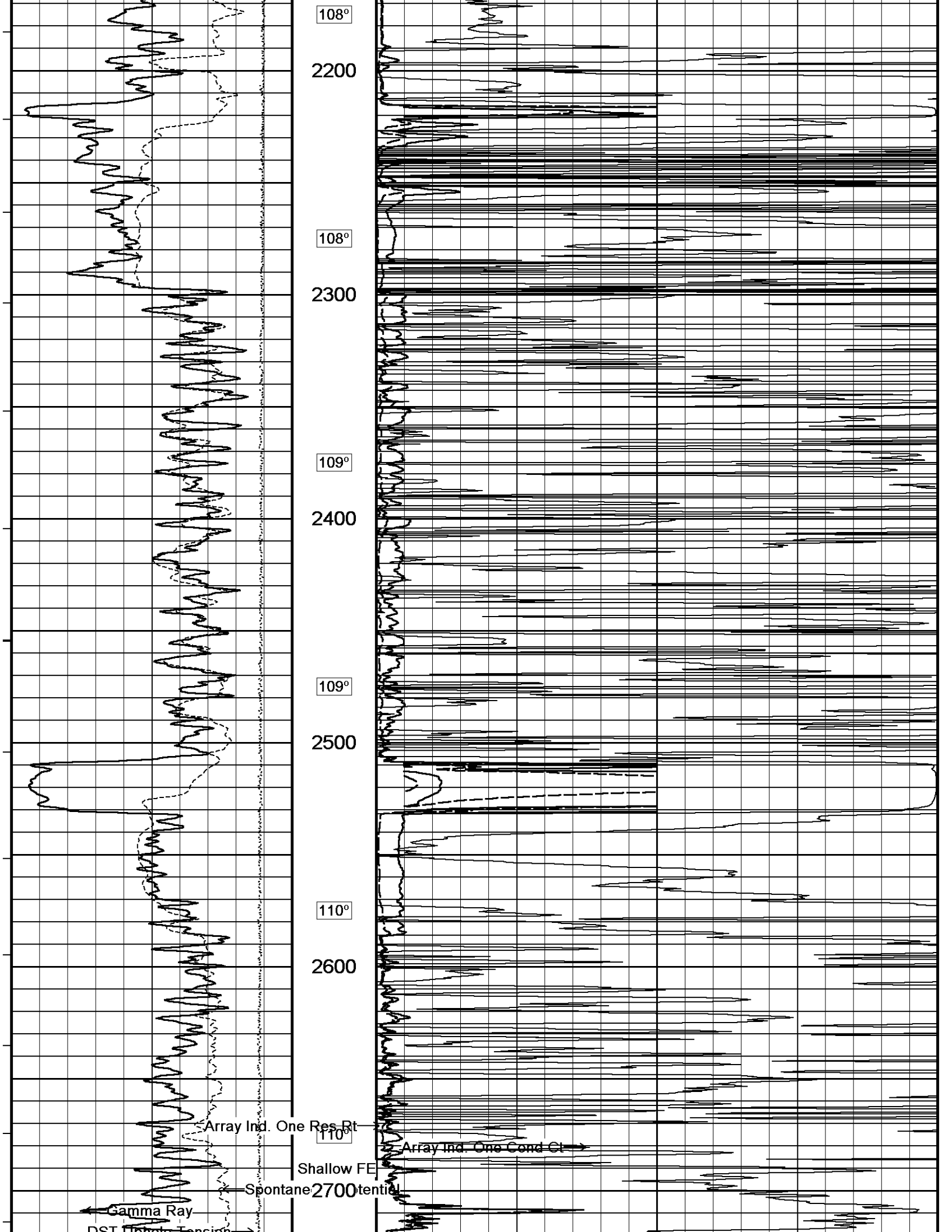




102°
1100
103°
1200
104°
1300
104°
1400
104°
1500
104°
1600







108°

2200

108°

2300

109°

2400

109°

2500

110°

2600

110°

2700

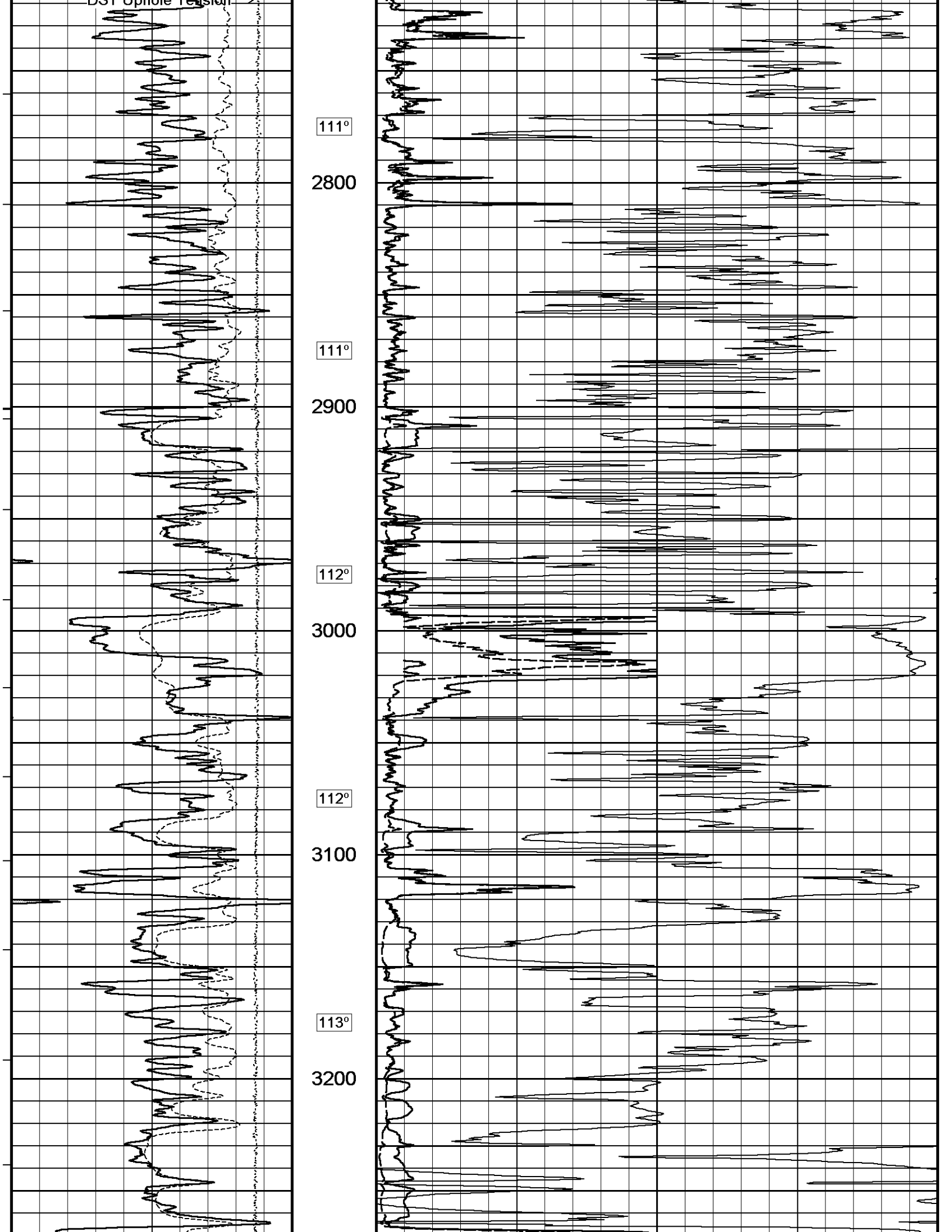
Gamma Ray

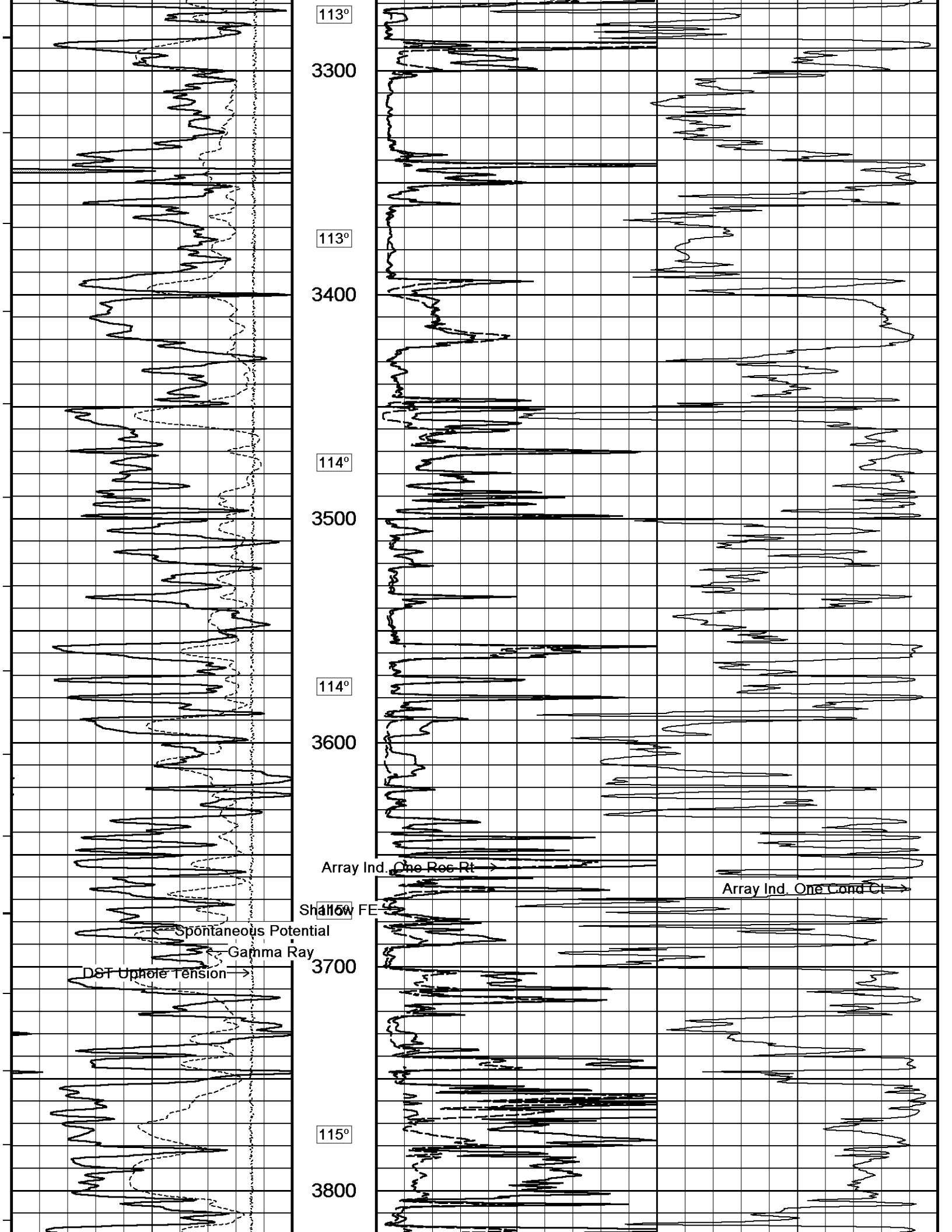
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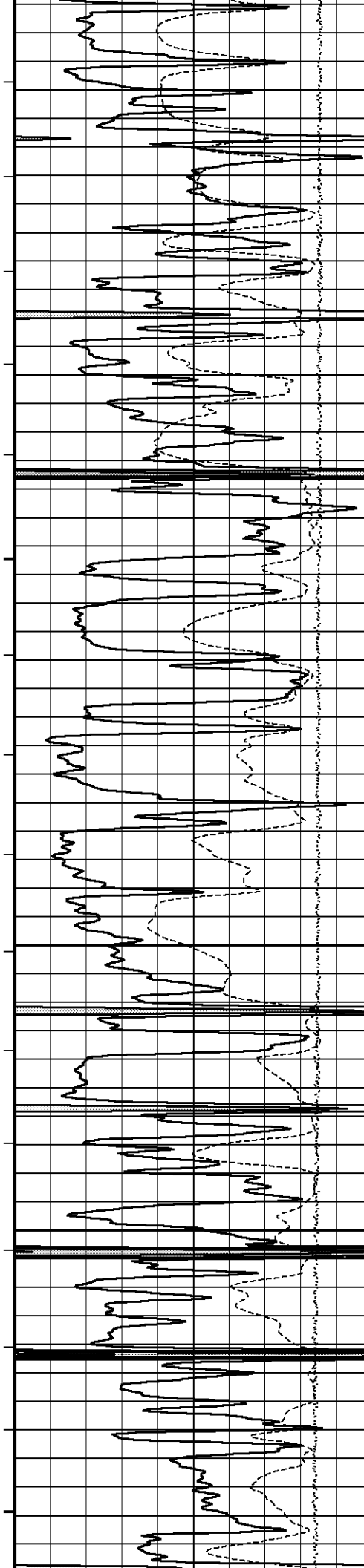
Spontane2700tentia

Array Ind. One Cond Ct

Shallow FE







116°

3900

116°

4000

117°

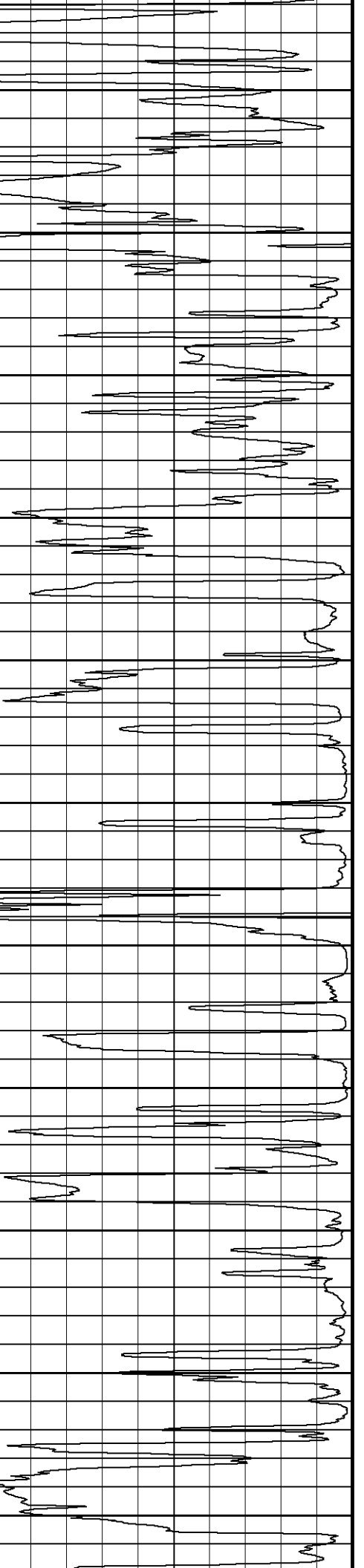
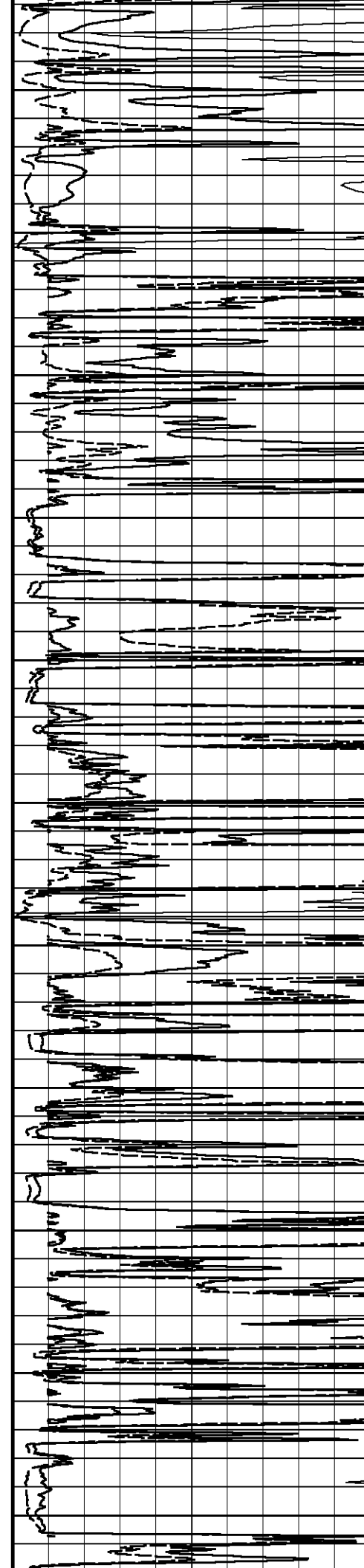
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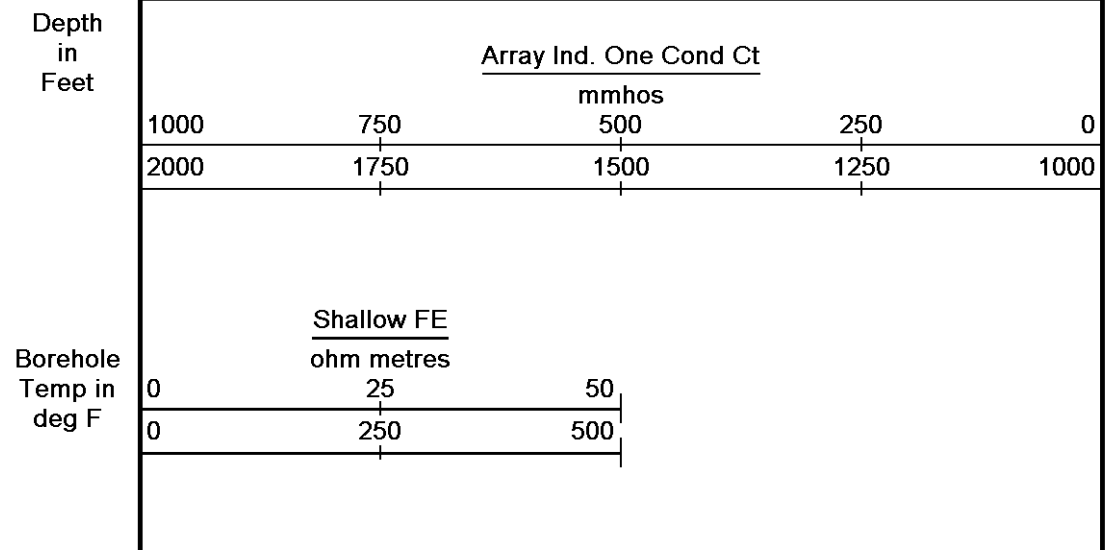
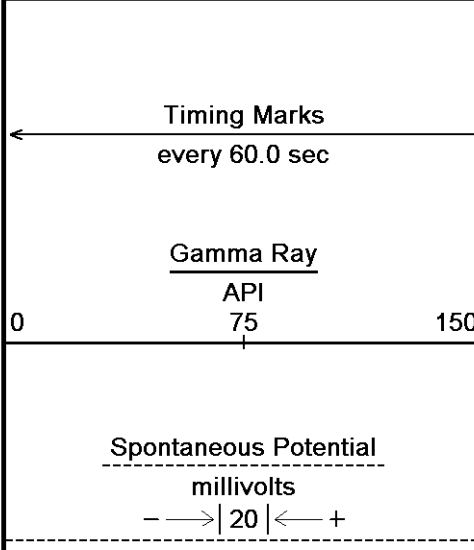
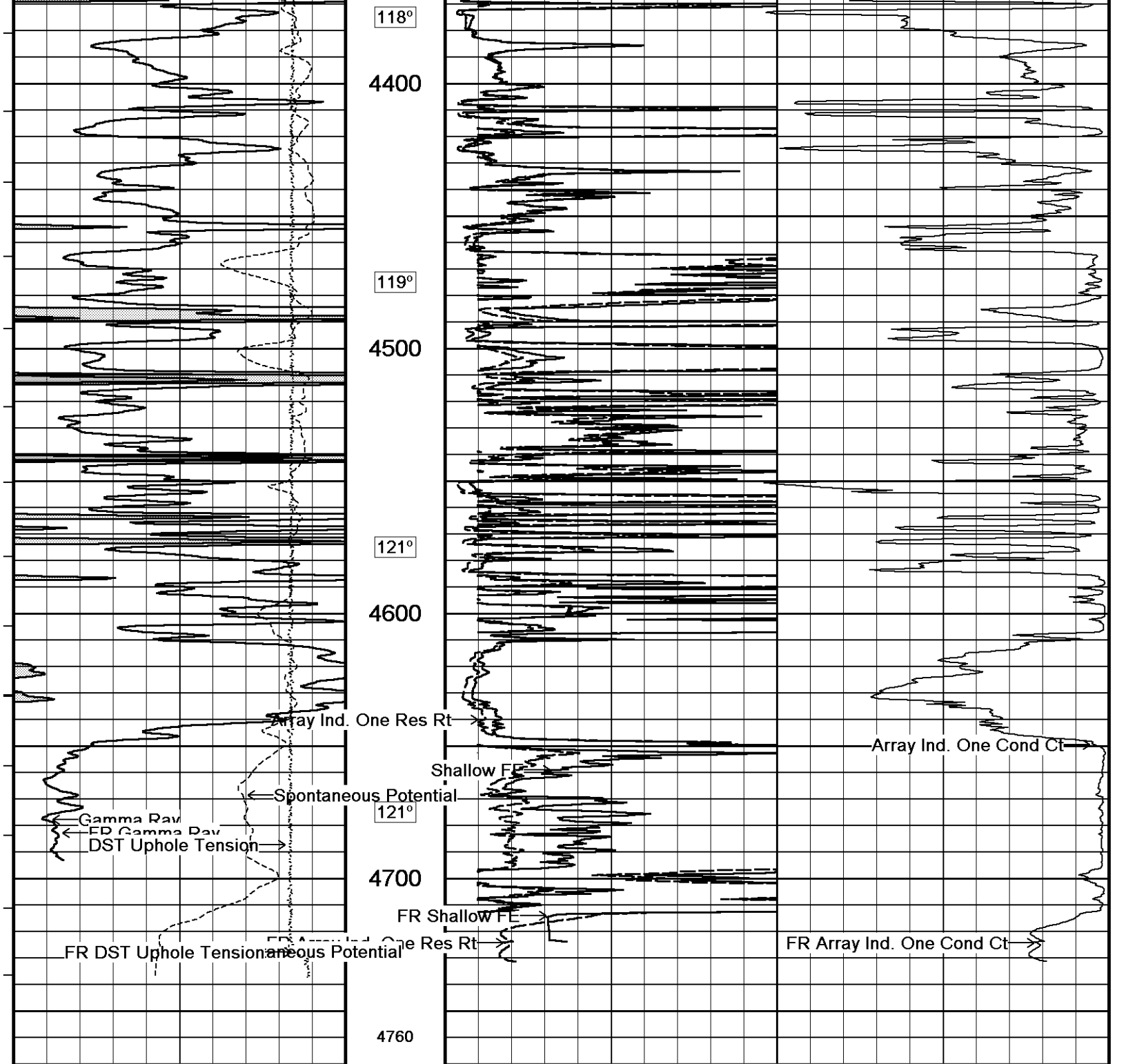
117°

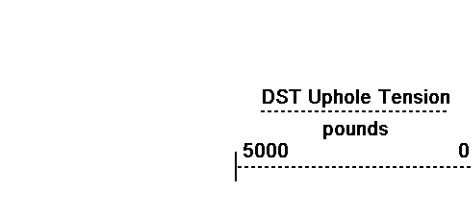
4200

118°

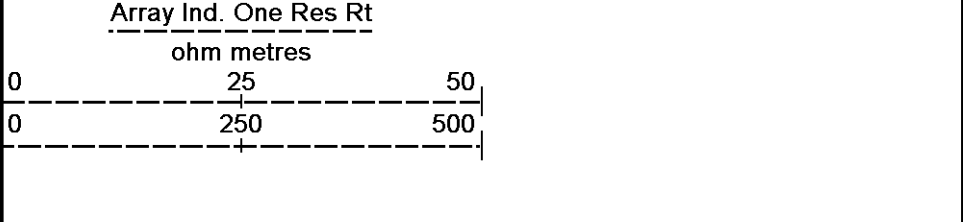
4300







Replay
Scale
1:600

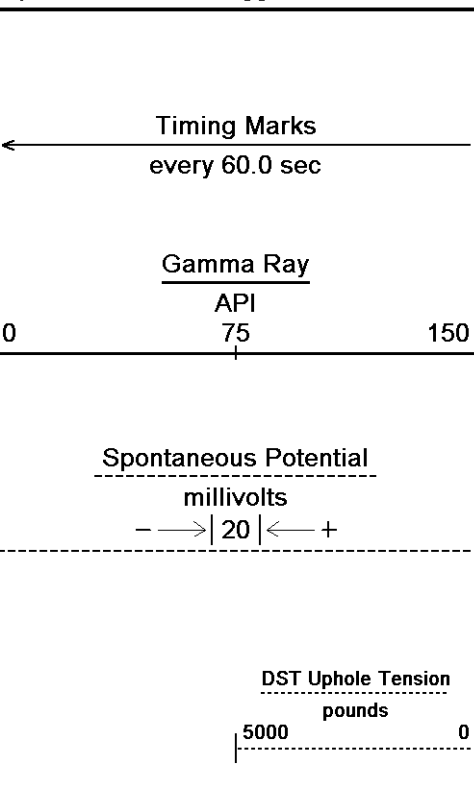


Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 02-JUL-2011 17:02
 Filename: C:\Minimus 11.02.3186\Data\Grand Mesa Dale #2-34\Grand Mesa Dale #2-34_003.dta
 Recorded on 02-JUL-2011 14:52
 System Versions: Logged with 11.02.3186 Plotted with 11.02.3186

↑ 2 INCH MAIN PASS ↑

↓ 5 INCH MAIN PASS ↓

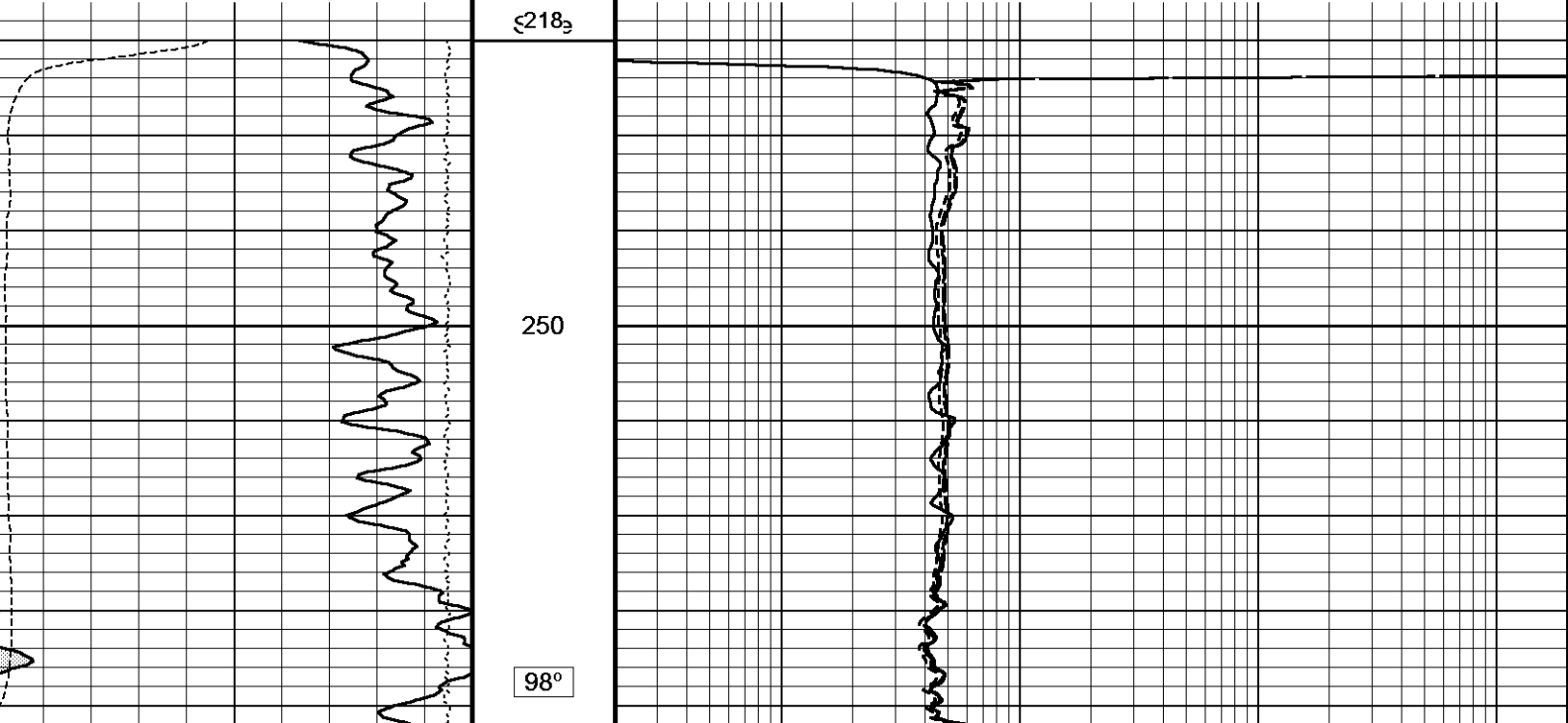
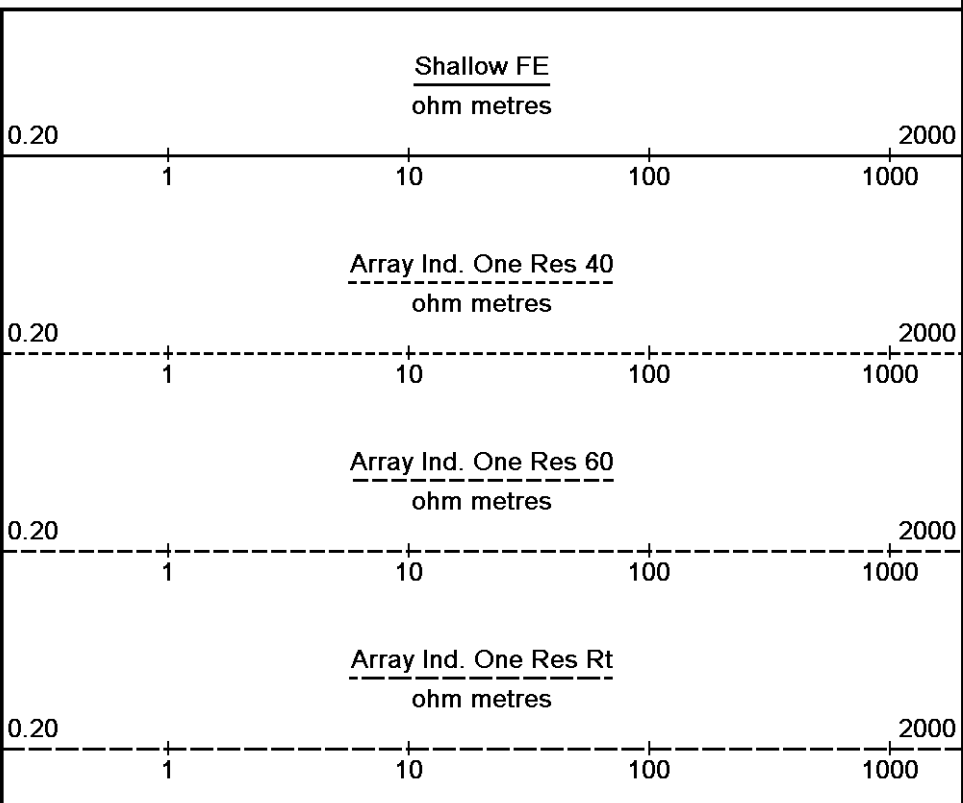
Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 02-JUL-2011 17:02
 Filename: C:\Minimus 11.02.3186\Data\Grand Mesa Dale #2-34\Grand Mesa Dale #2-34_003.dta
 Recorded on 02-JUL-2011 14:52
 System Versions: Logged with 11.02.3186 Plotted with 11.02.3186

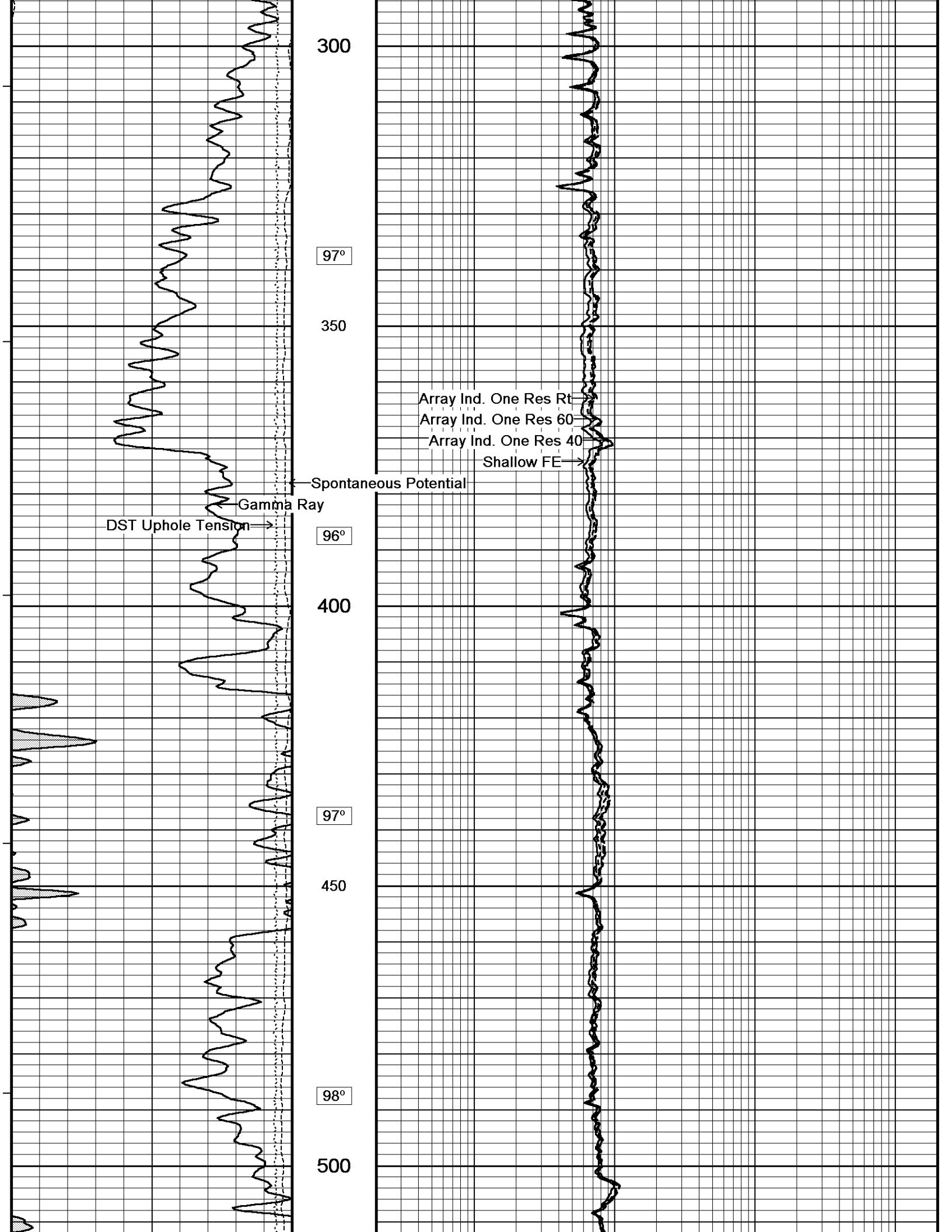


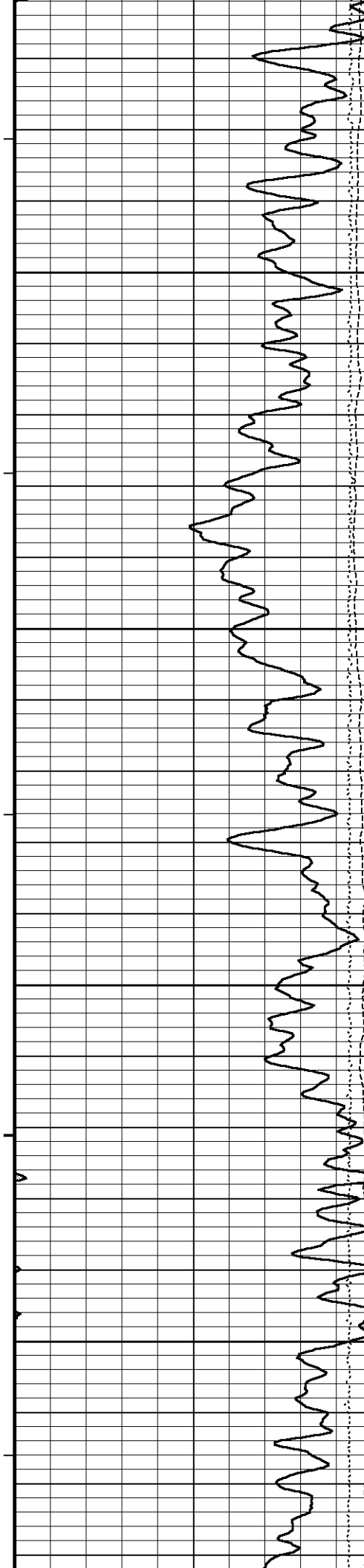
Depth
in
Feet

Borehole
Temp in
deg F

Replay
Scale
1:240







98°

550

99°

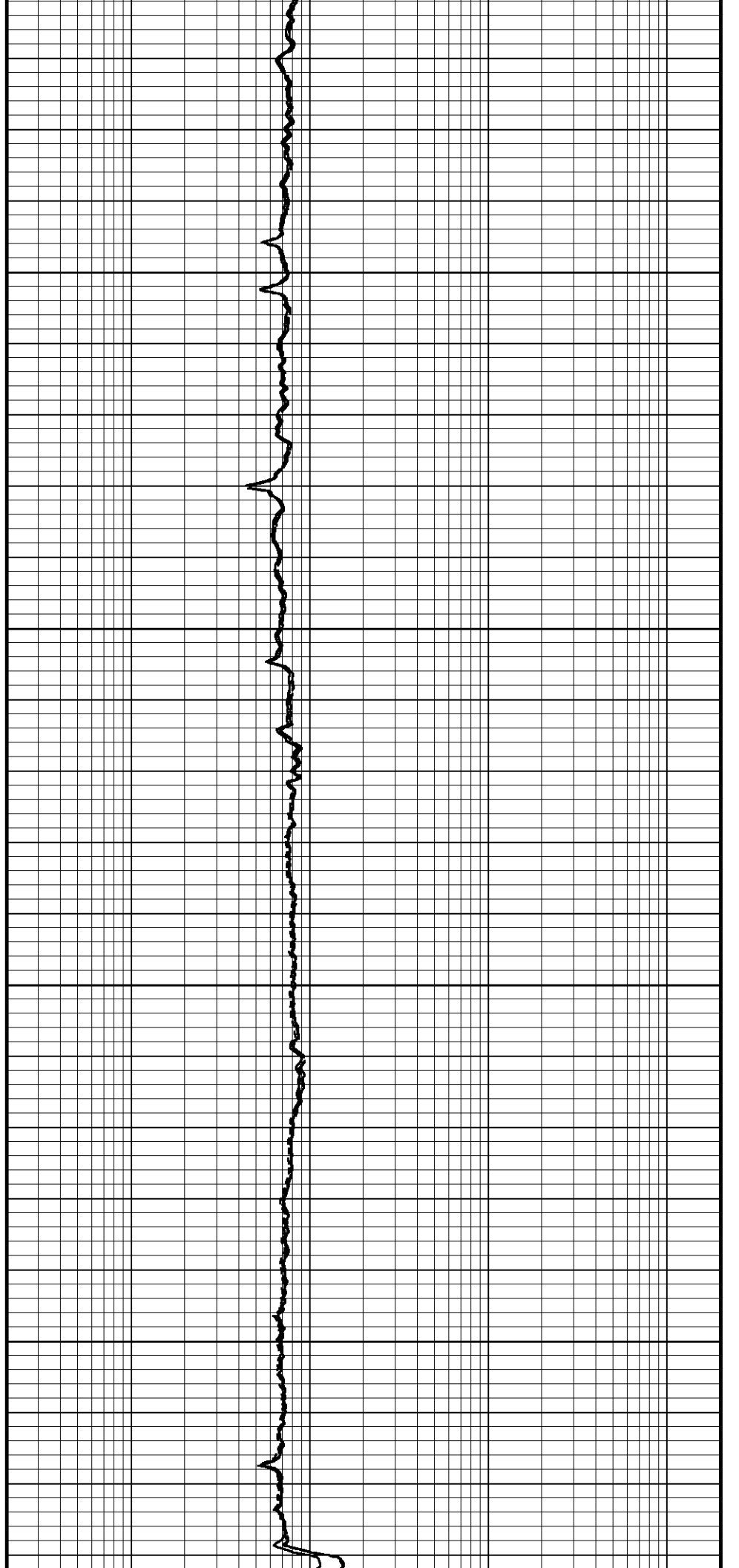
600

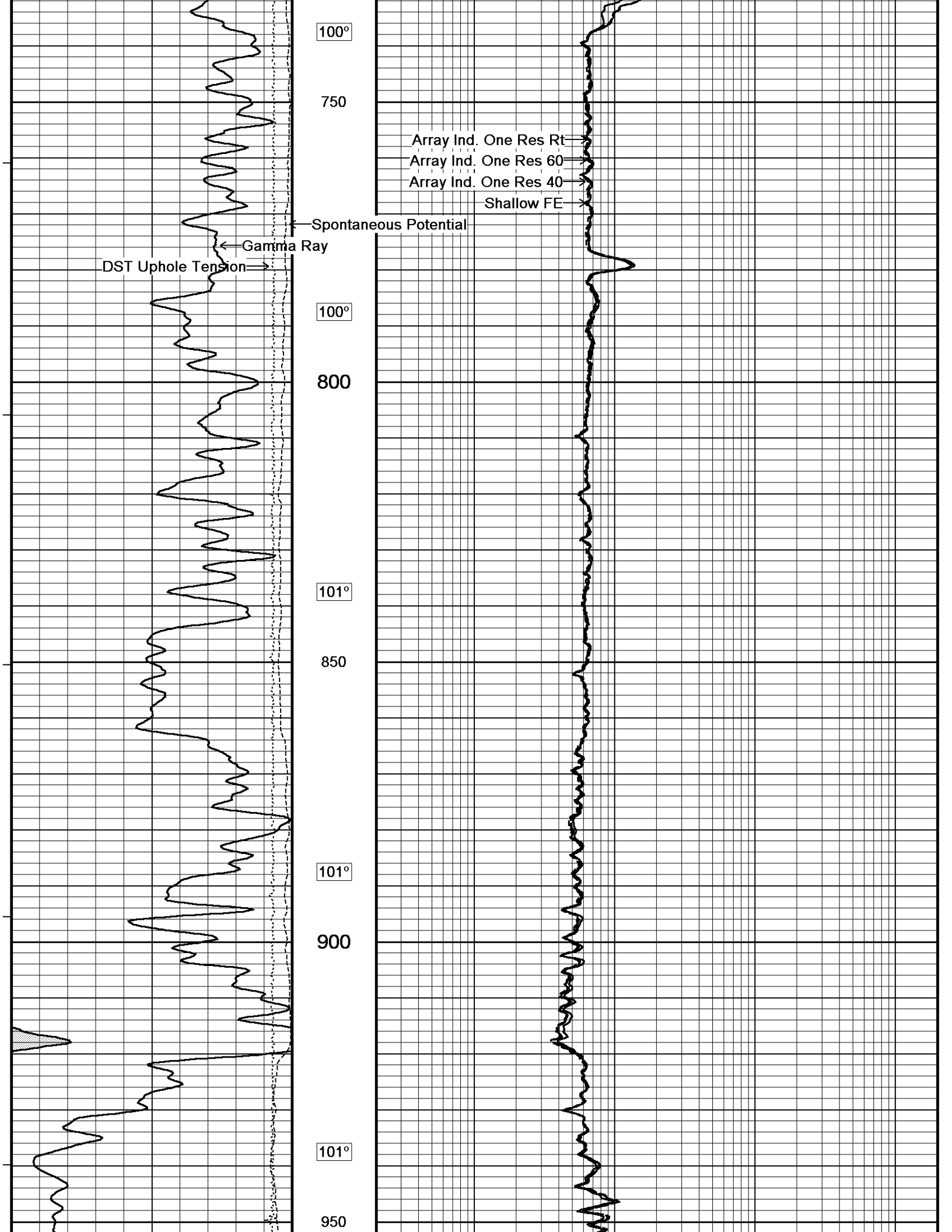
99°

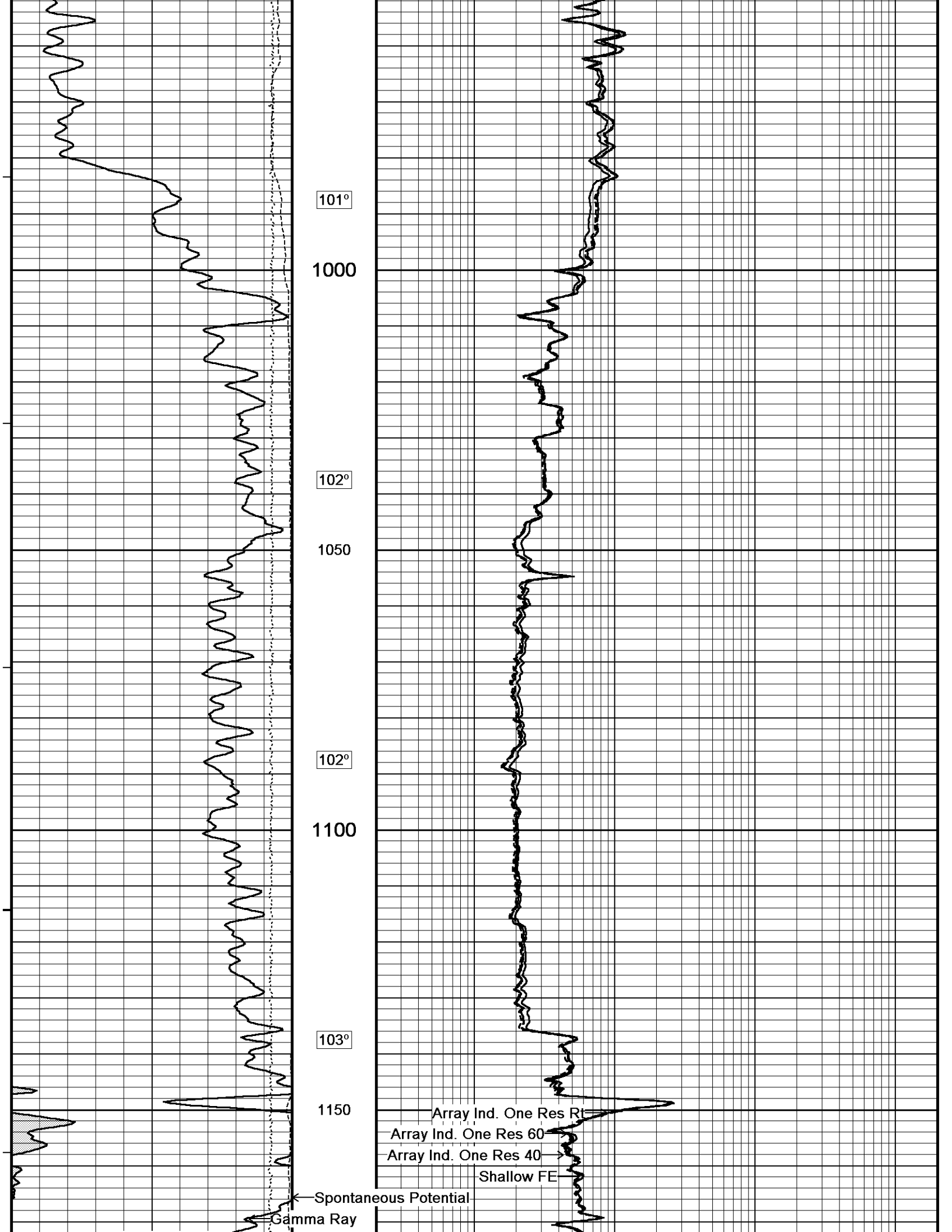
650

99°

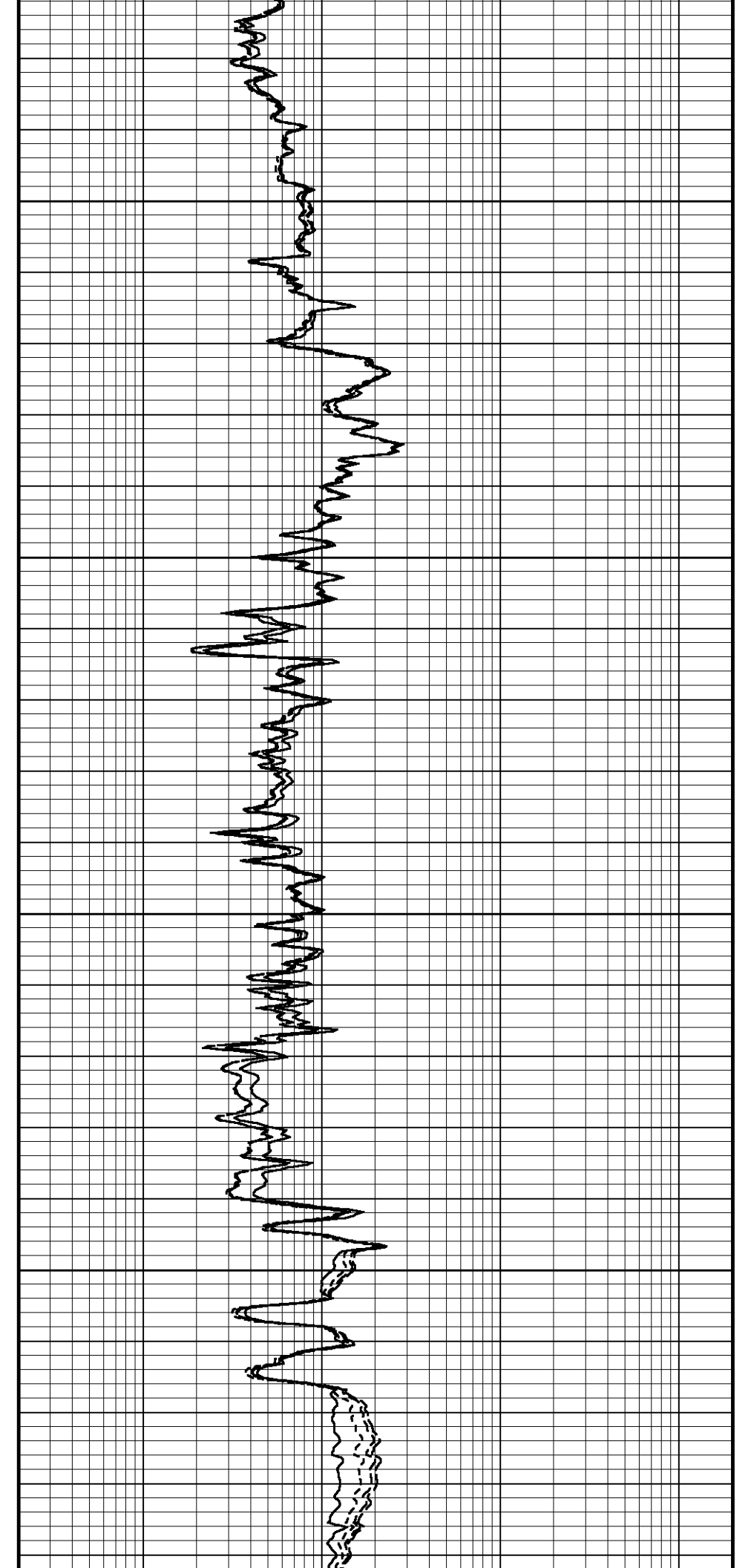
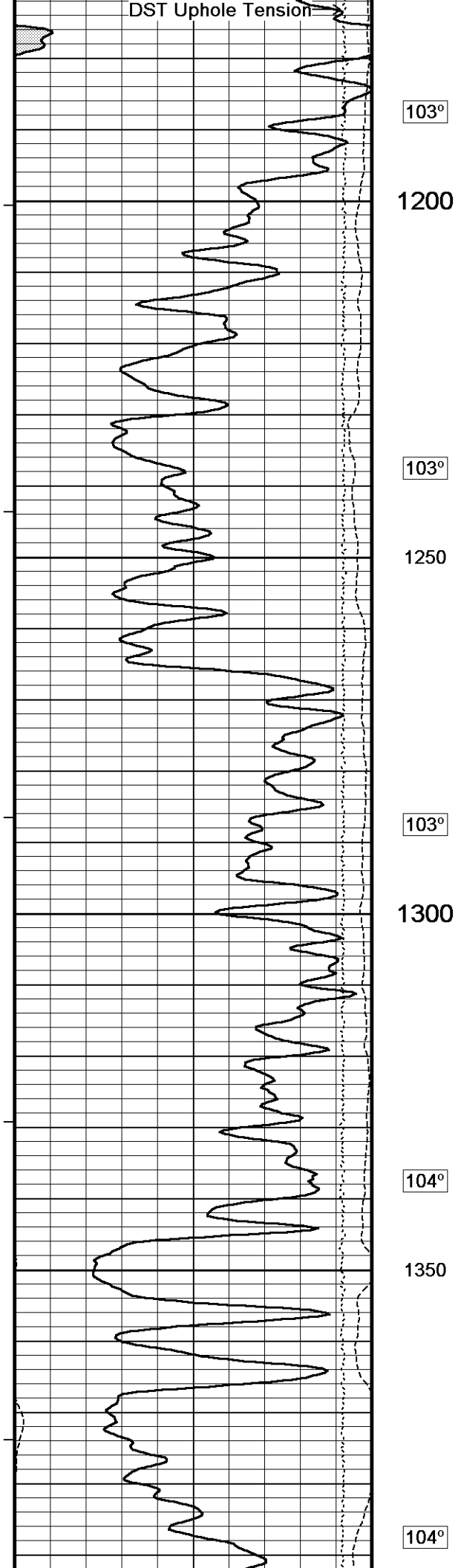
700

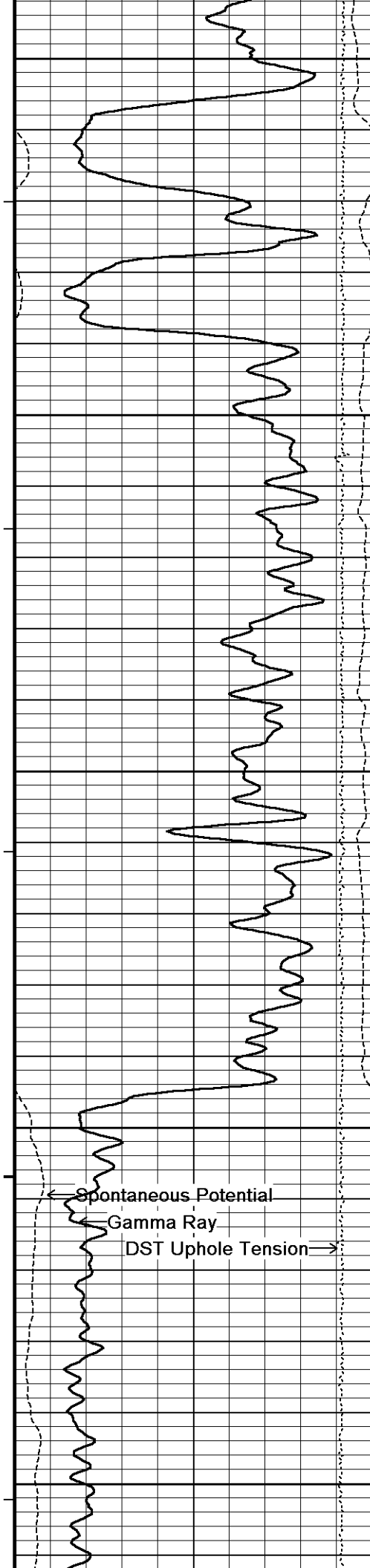






DST Uphole Tension





1400

104°

1450

104°

1500

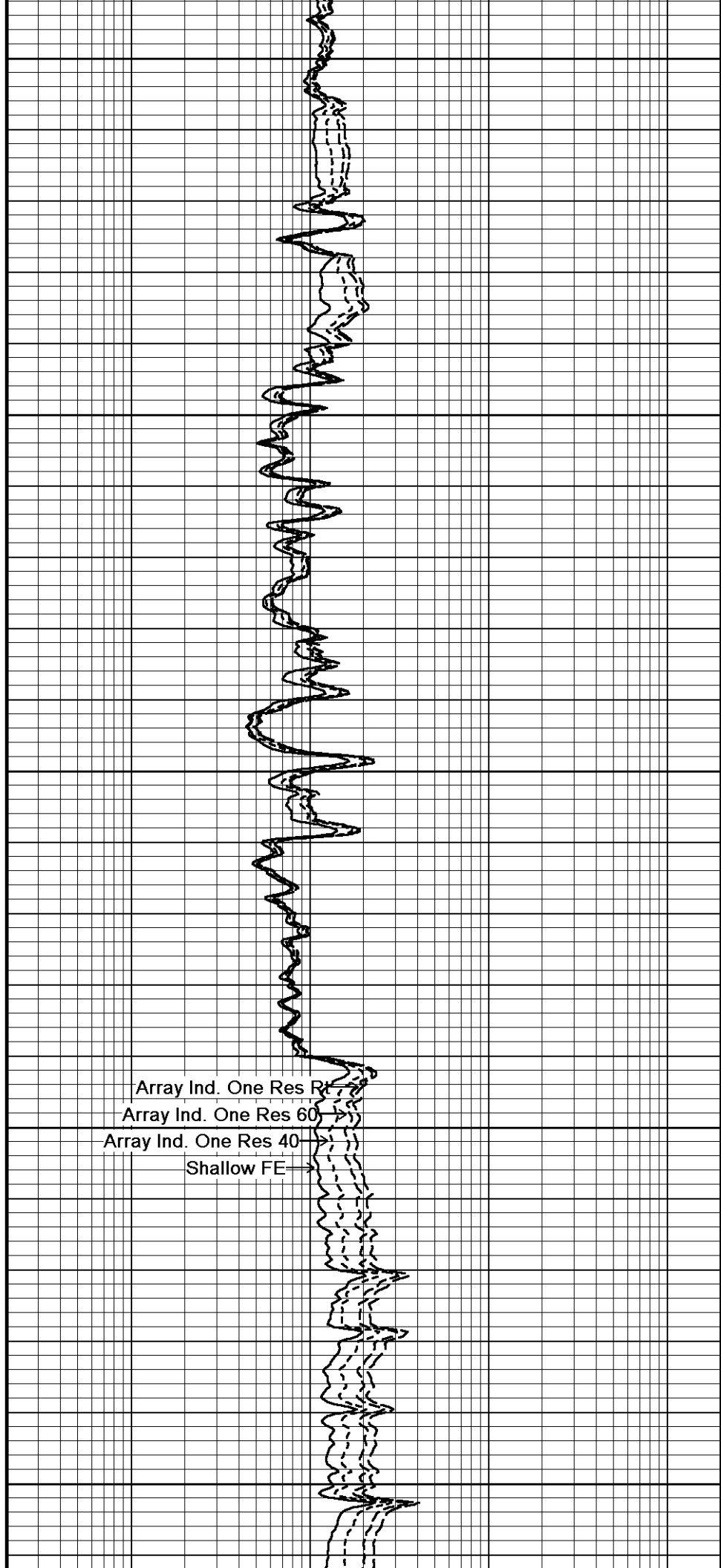
104°

1550

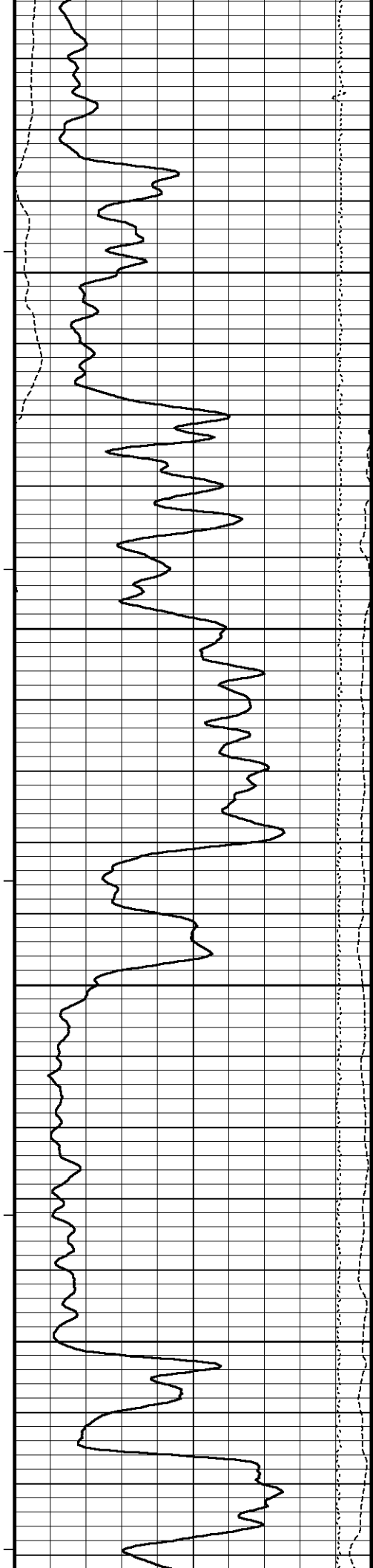
104°

1600

← Spontaneous Potential
Gamma Ray
DST Uphole Tension →



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



105°

1650

105°

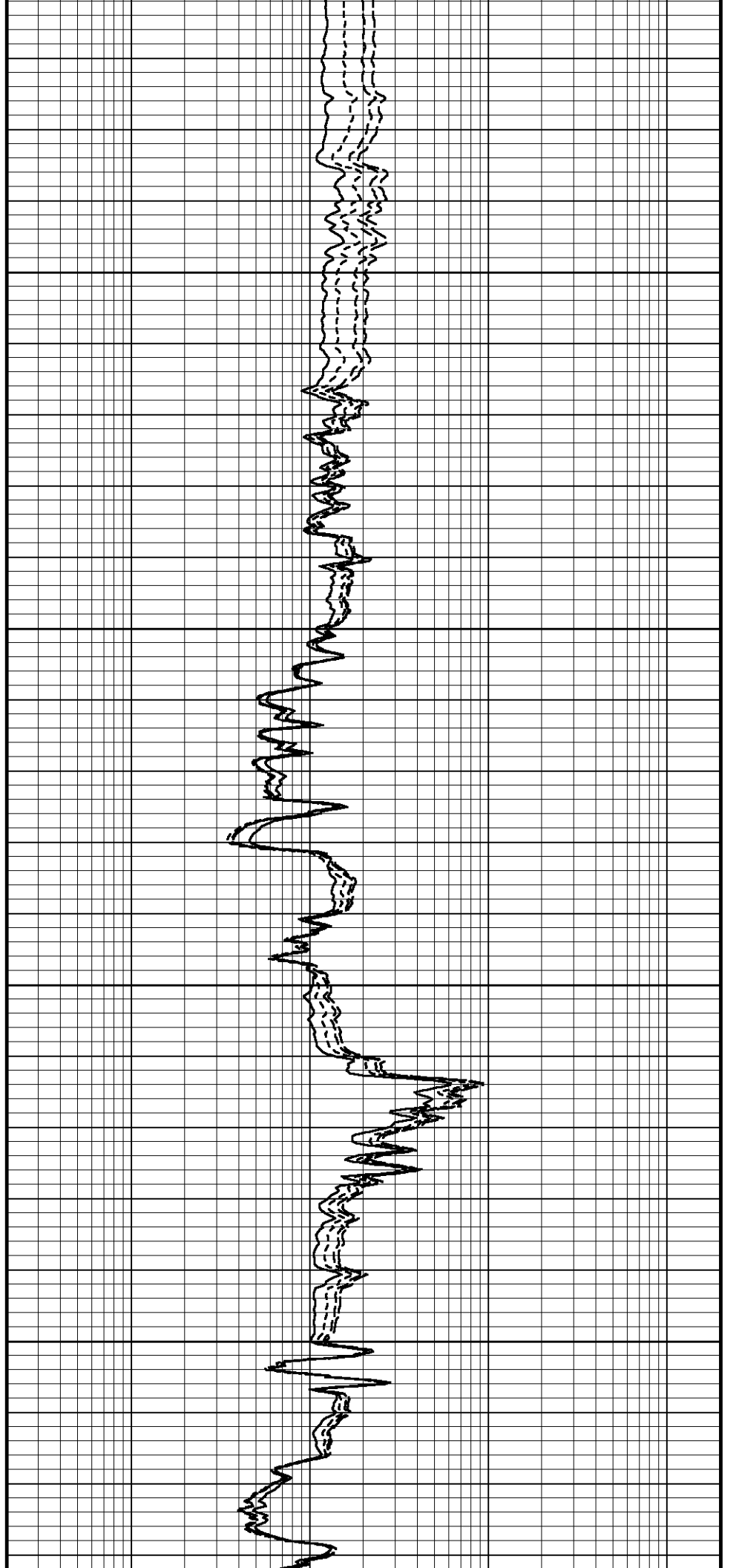
1700

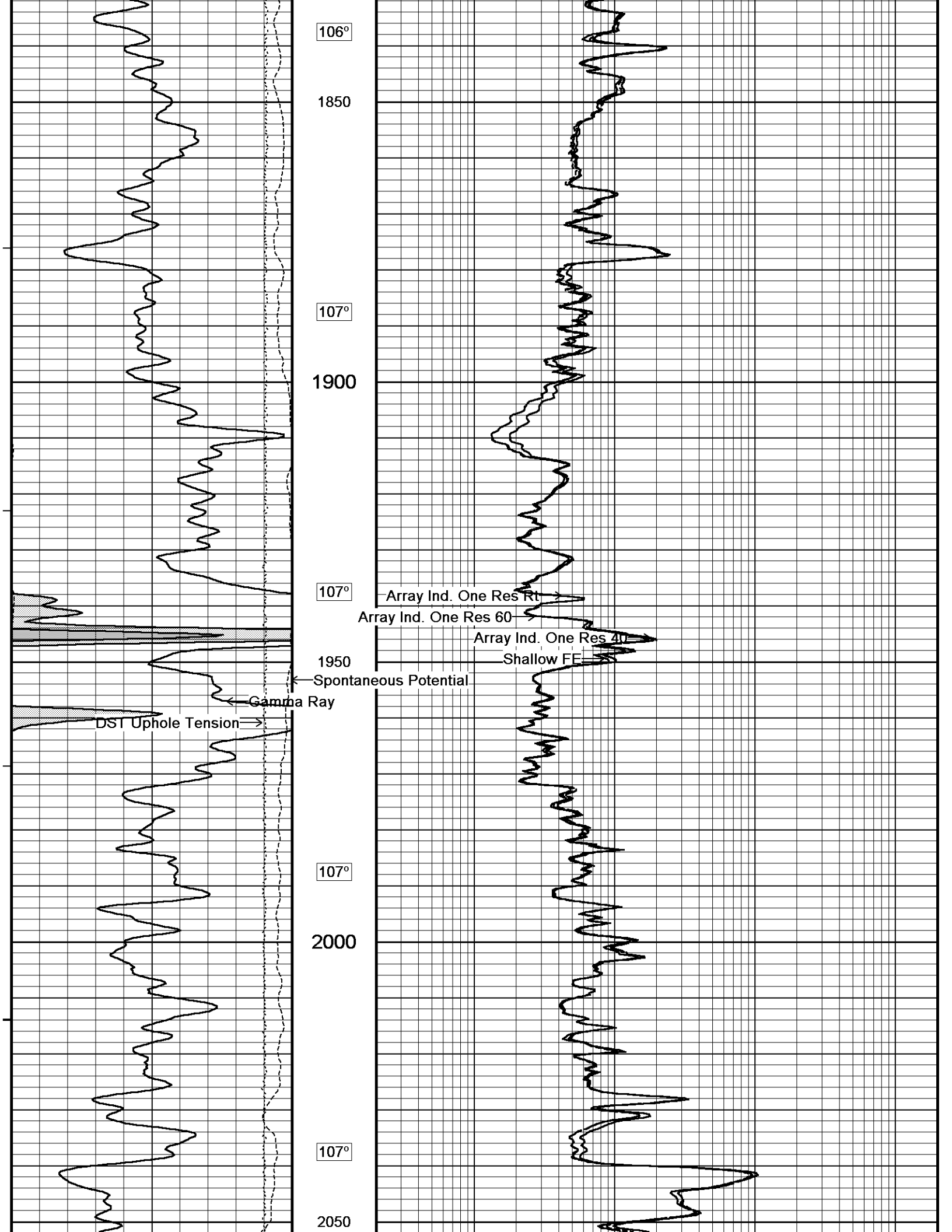
105°

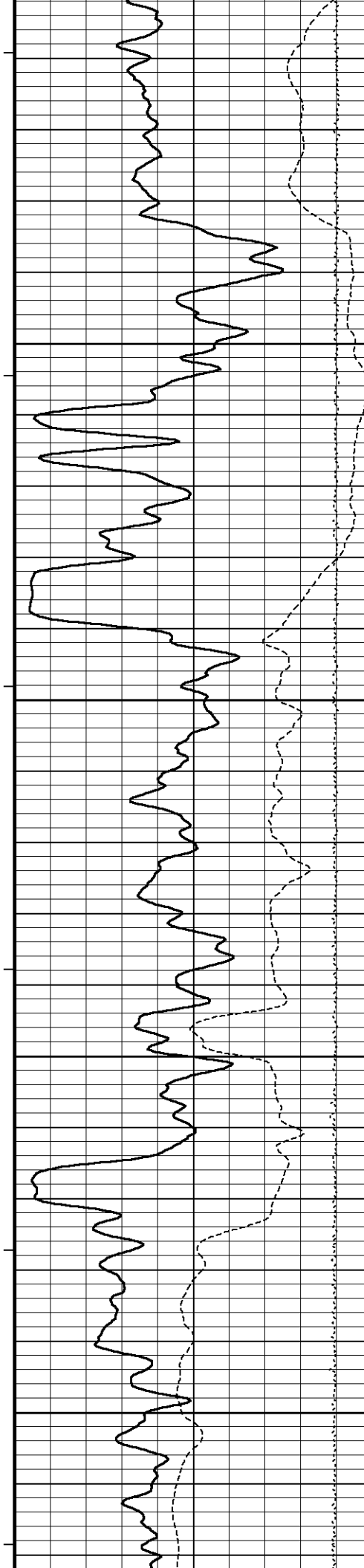
1750

106°

1800







108°

2100

108°

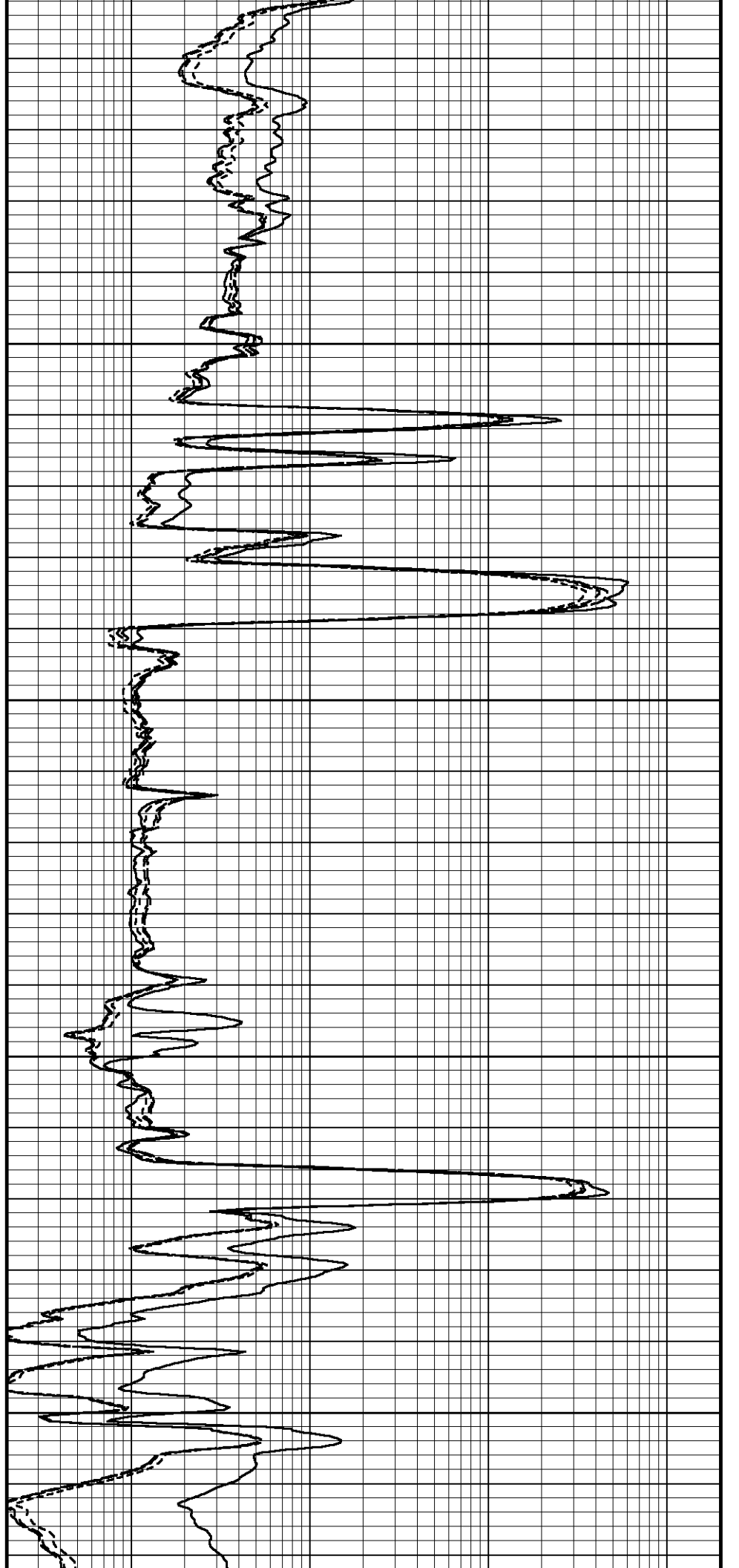
2150

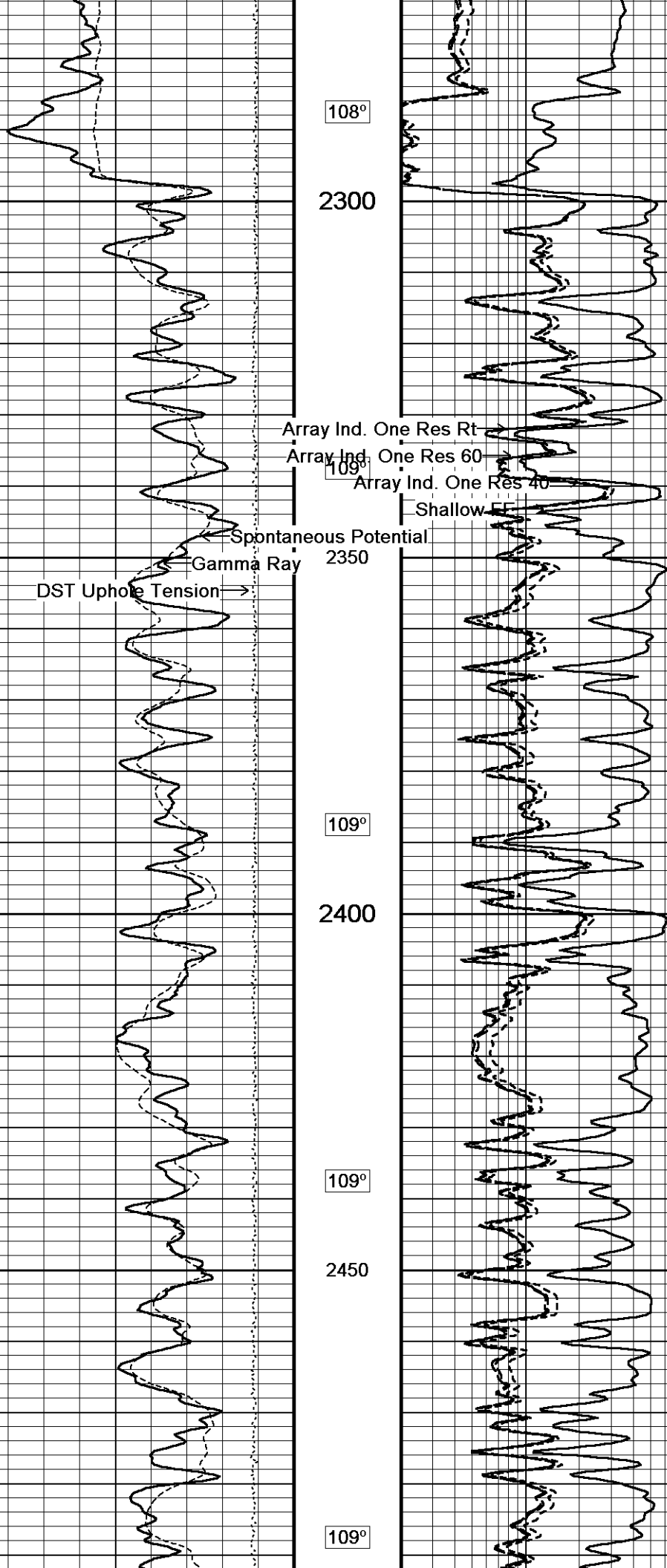
108°

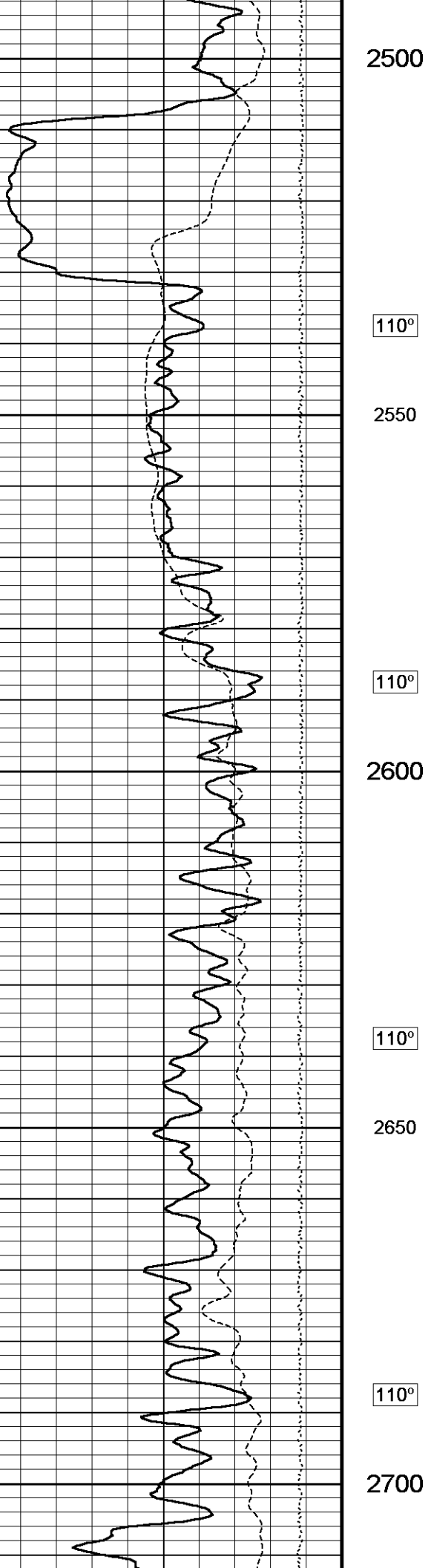
2200

108°

2250







2500

110°

2550

110°

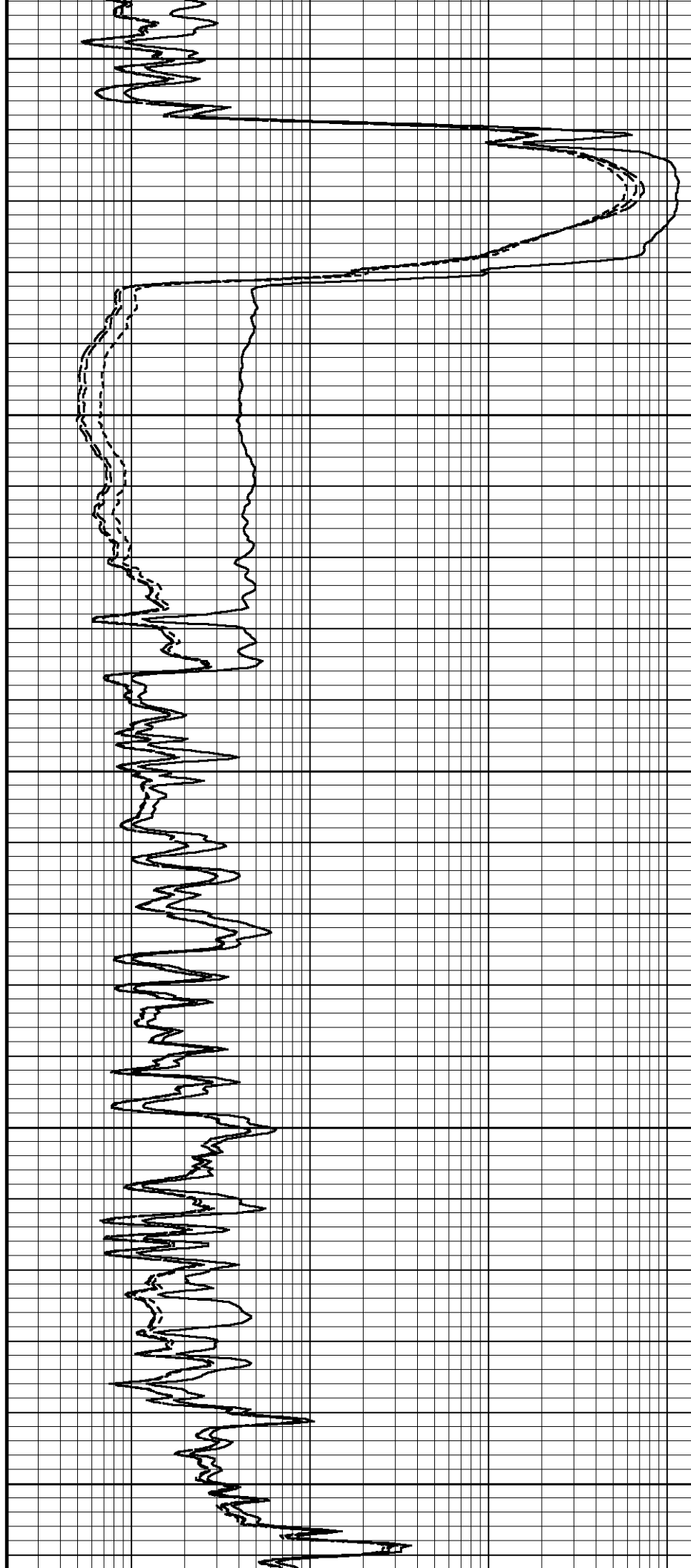
2600

110°

2650

110°

2700



2500

110°

2550

110°

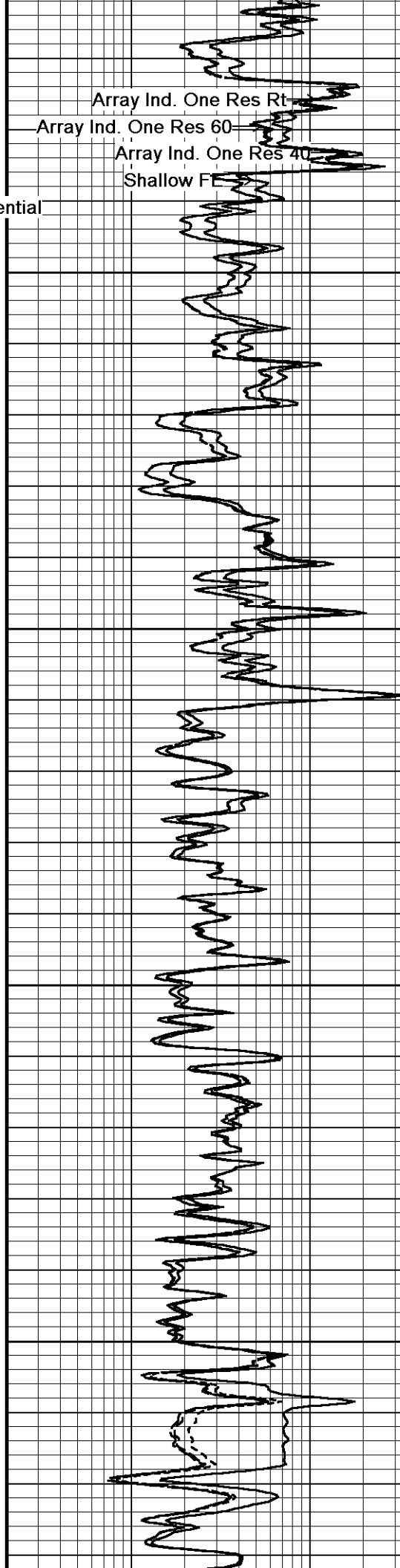
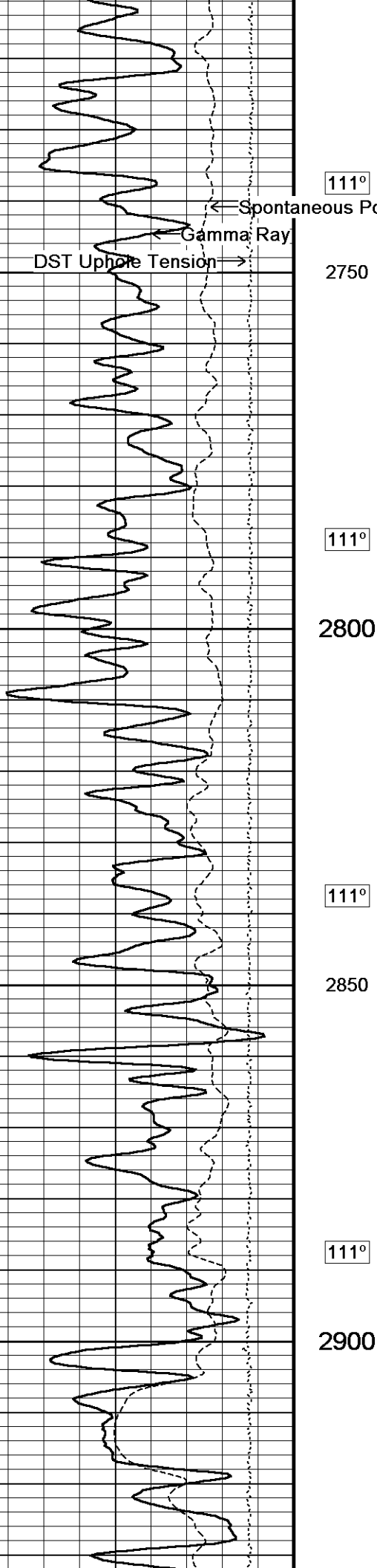
2600

110°

2650

110°

2700



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

← Spontaneous Potential

← Gamma Ray

DST Uphole Tension →

111°

2750

111°

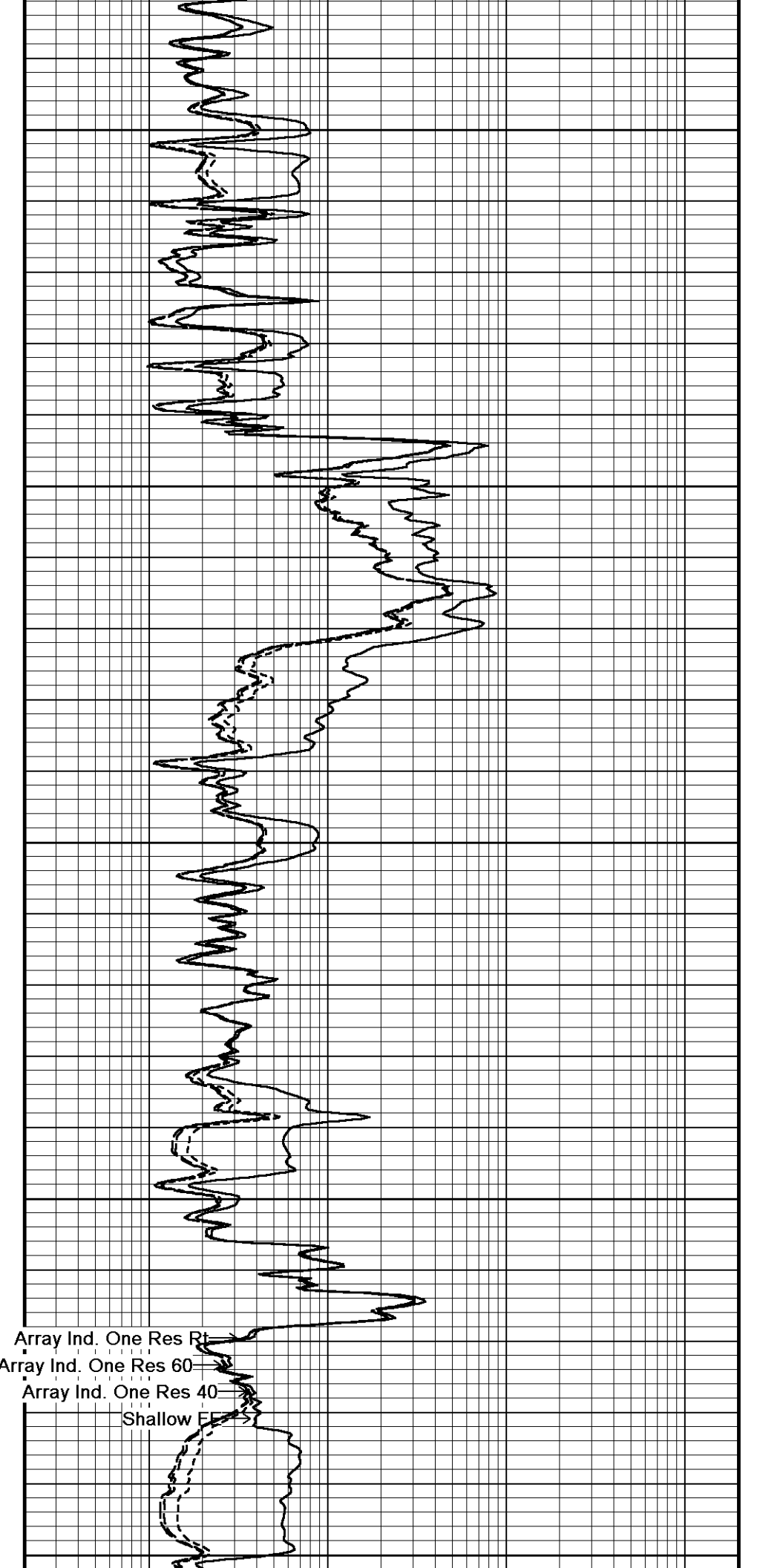
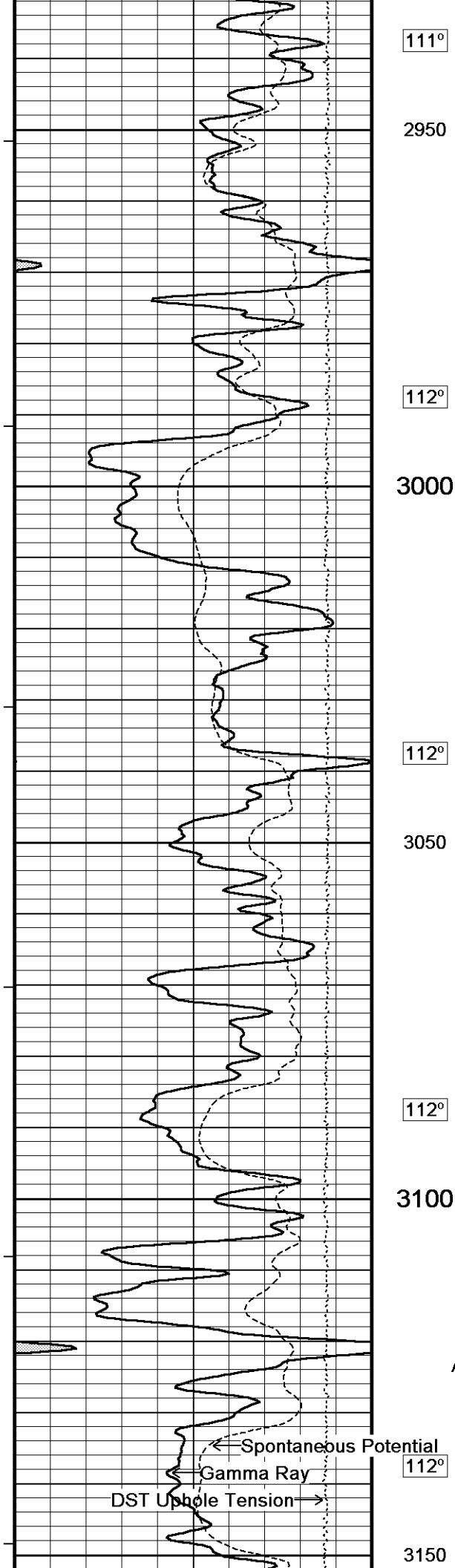
2800

111°

2850

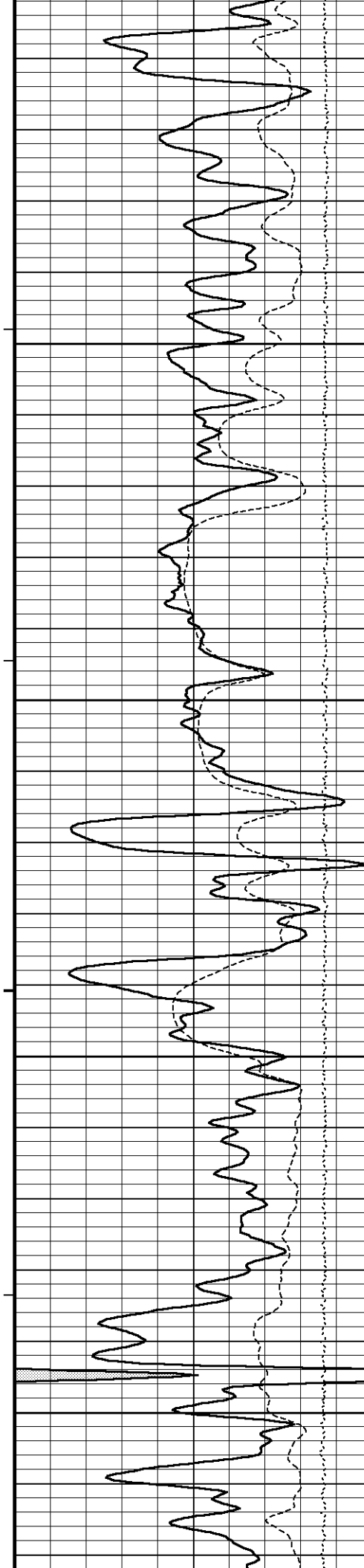
111°

2900



← Spontaneous Potential
— Gamma Ray
→ DST Uphole Tension

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



113°

3200

113°

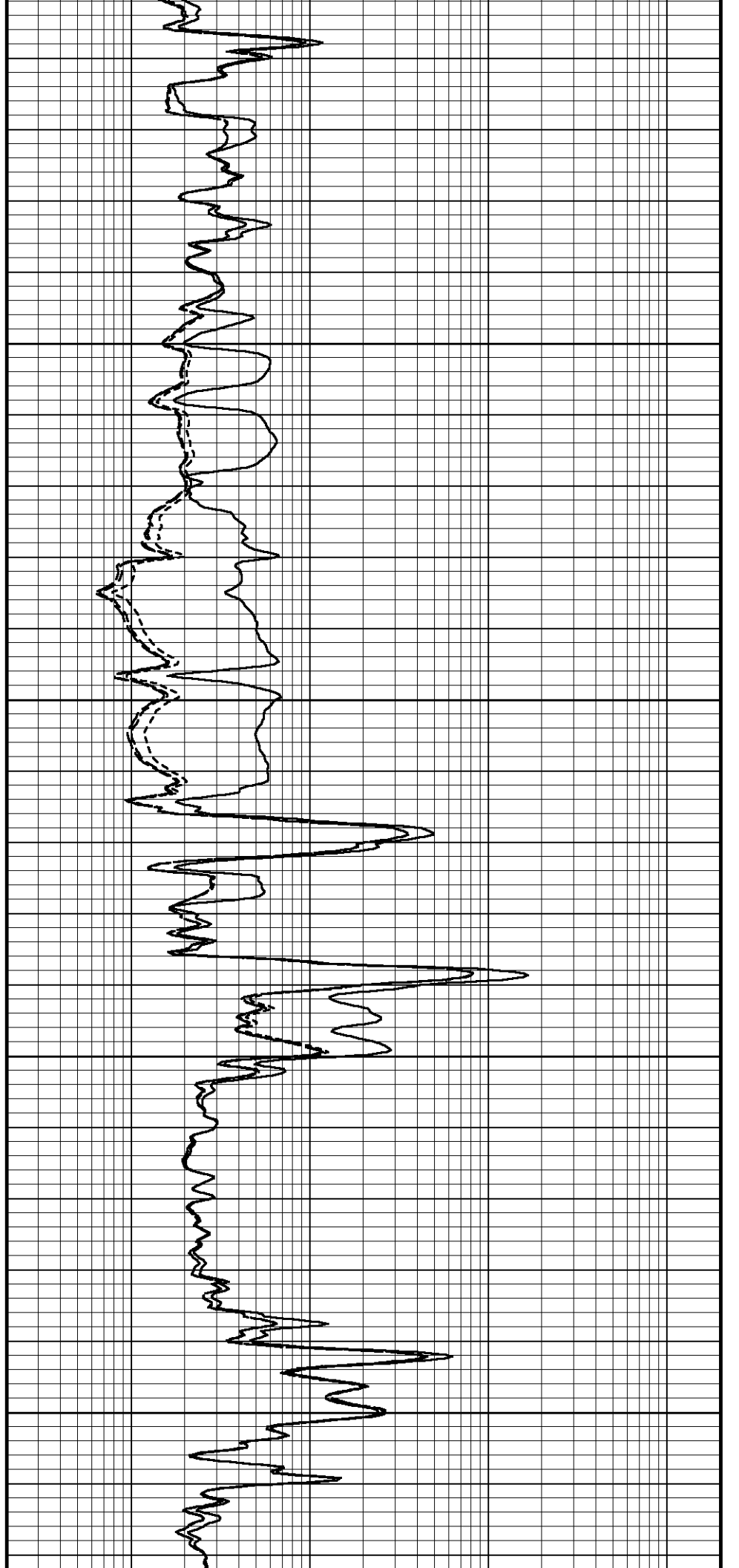
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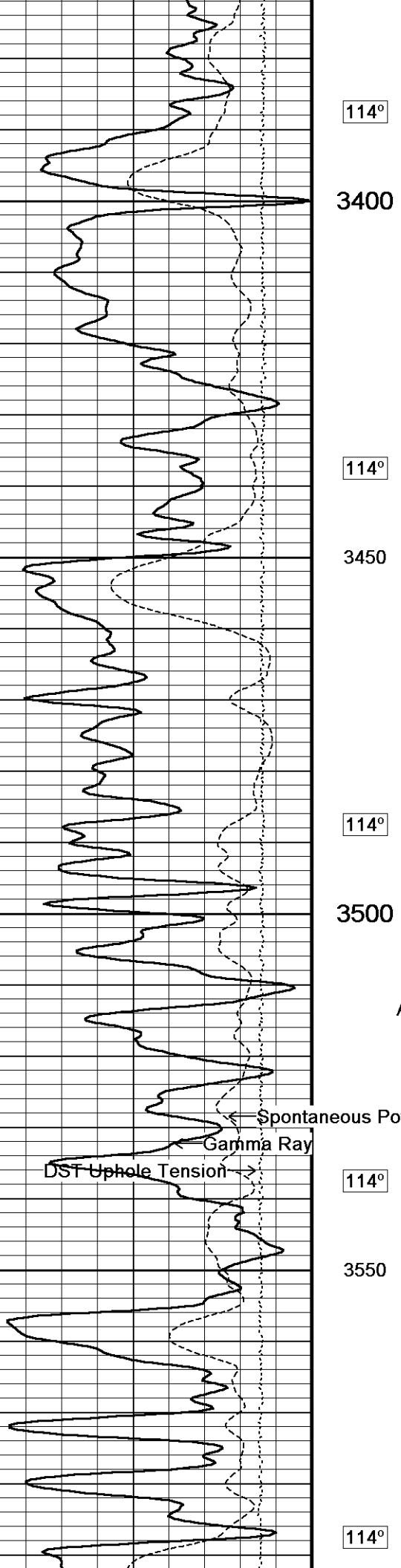
113°

3300

113°

3350





114°

3400

114°

3450

114°

3500

114°

3550

114°

Array Ind. One Res Rt

Array Ind. One Res 60

Array Ind. One Res 40

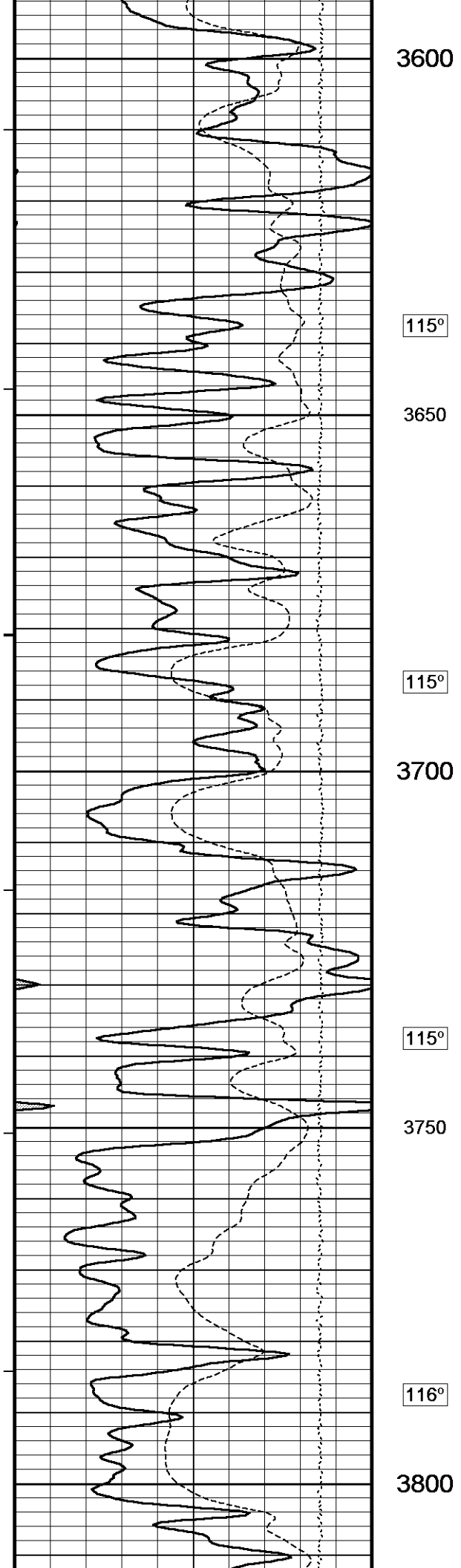
Shallow FE

Spontaneous Potential

Gamma Ray

DST Uphole Tension





3600

115°

3650

115°

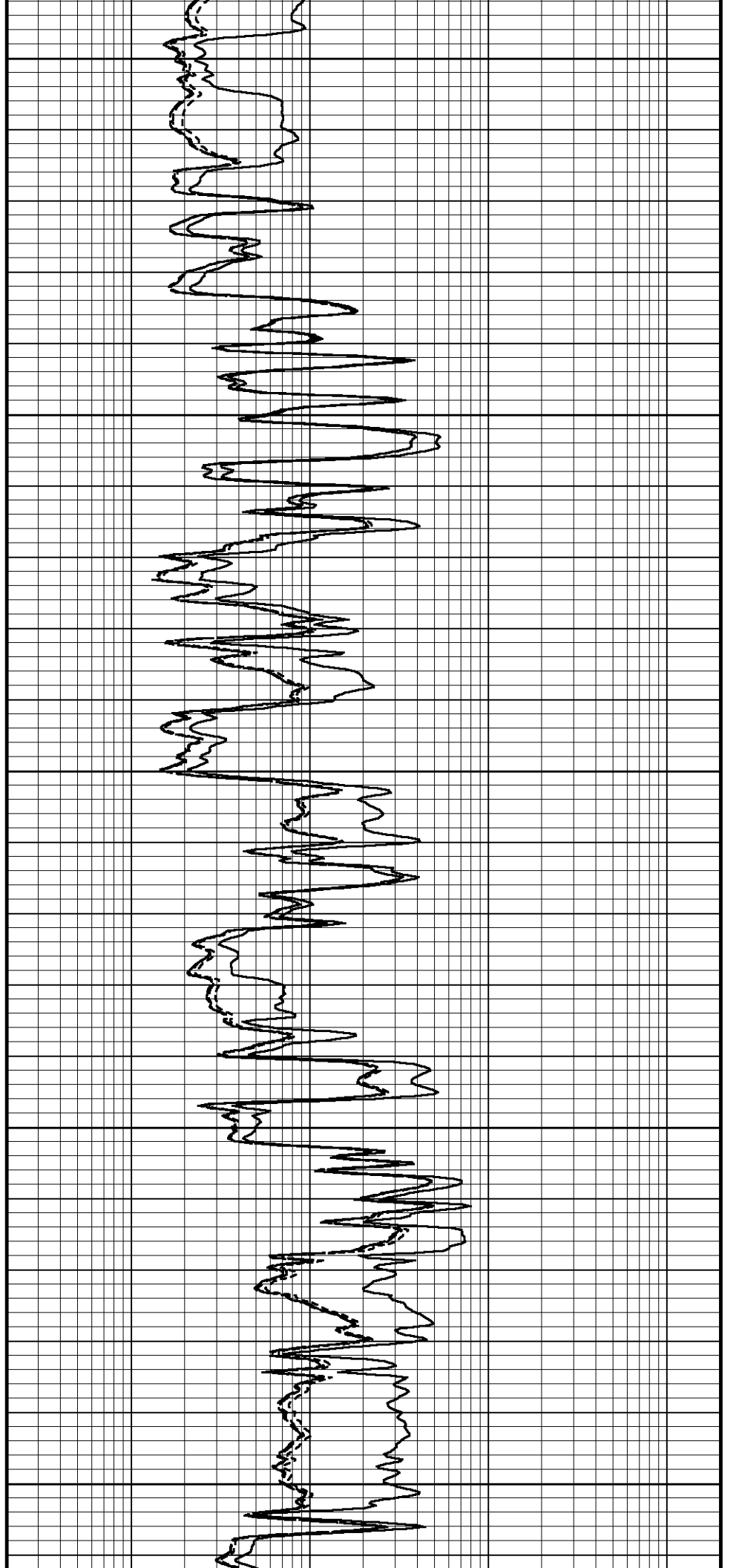
3700

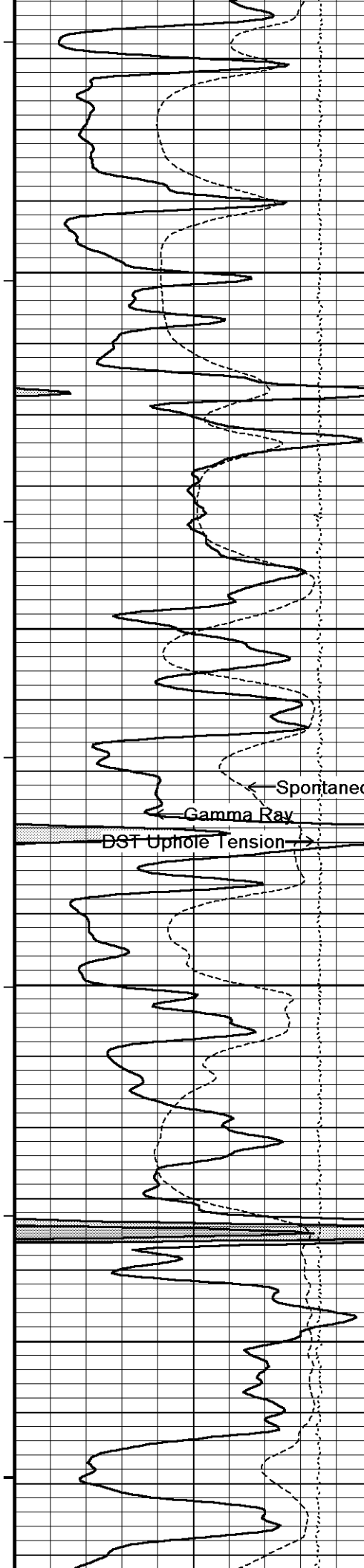
115°

3750

116°

3800





116°

3850

116°

3900

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

Shallow FE

Spontaneous Potential

Gamma Ray

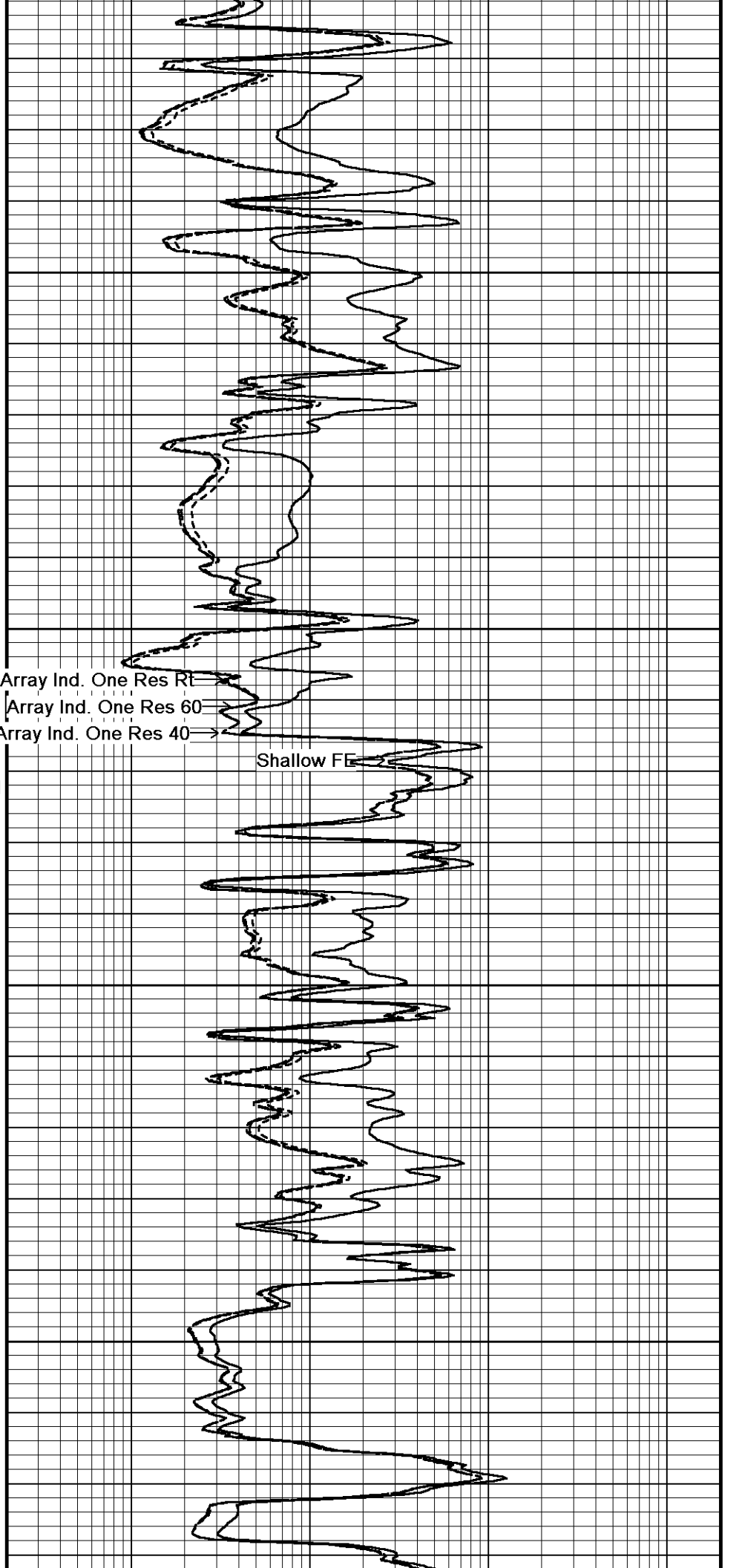
DST Uphole Tension

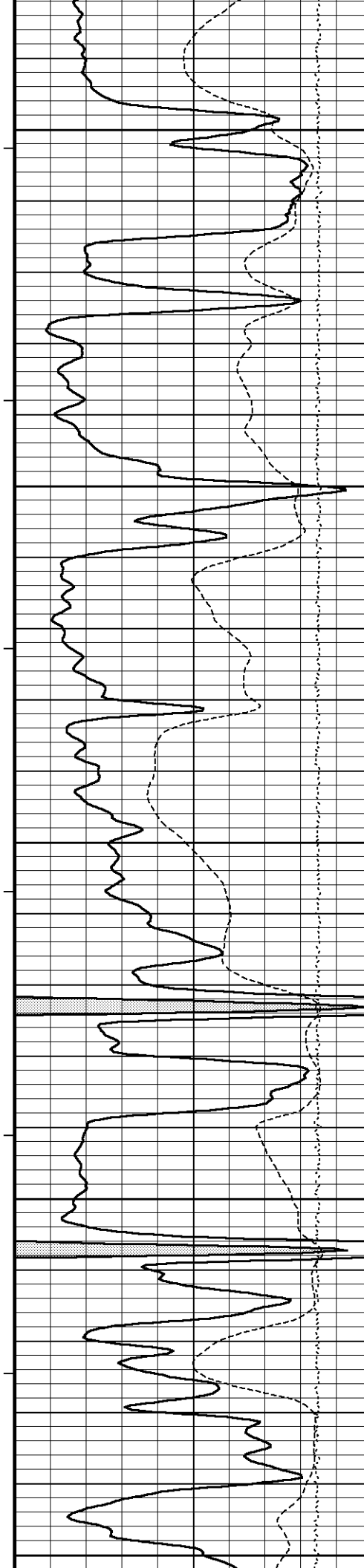
116°

3950

116°

4000





117°

4050

117°

4100

117°

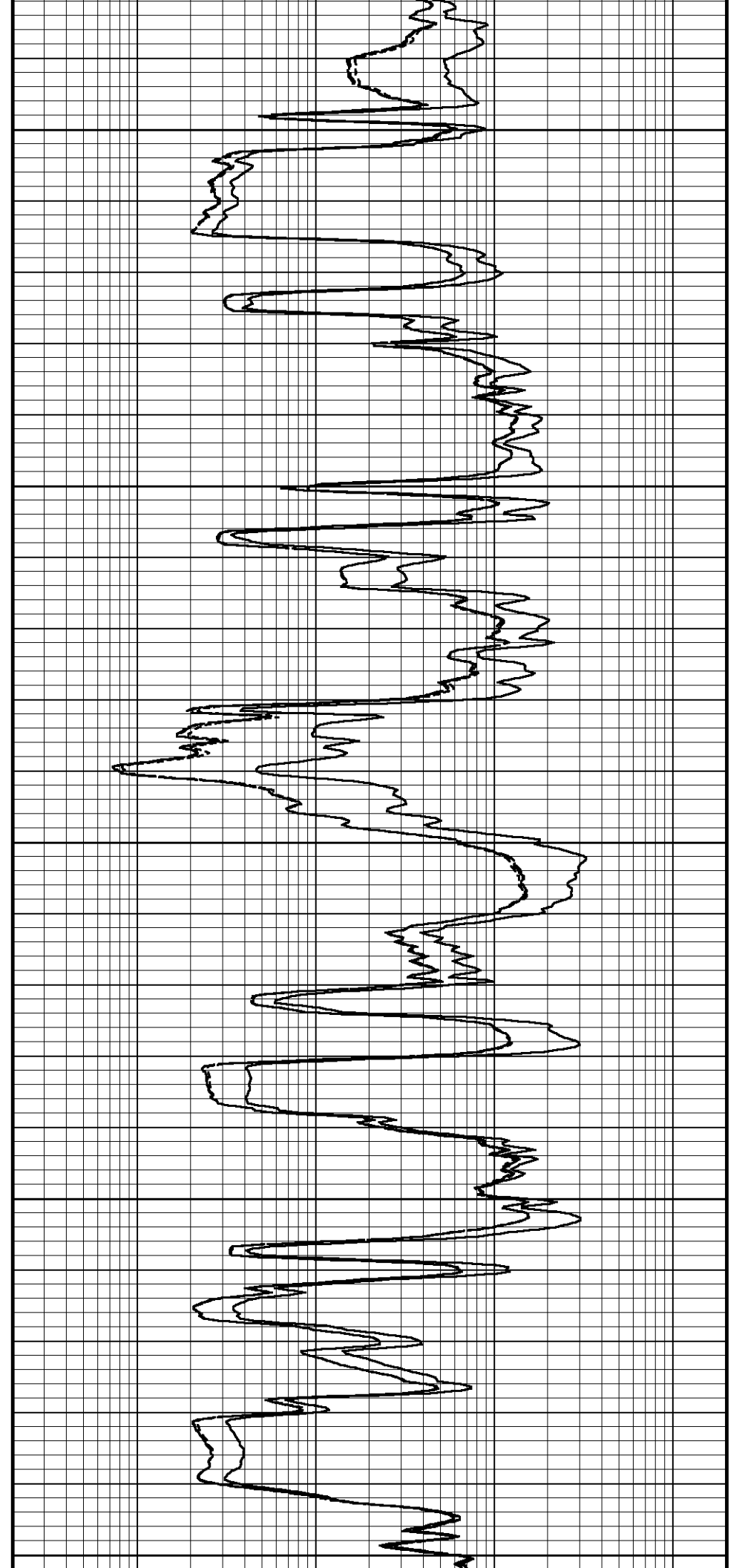
4150

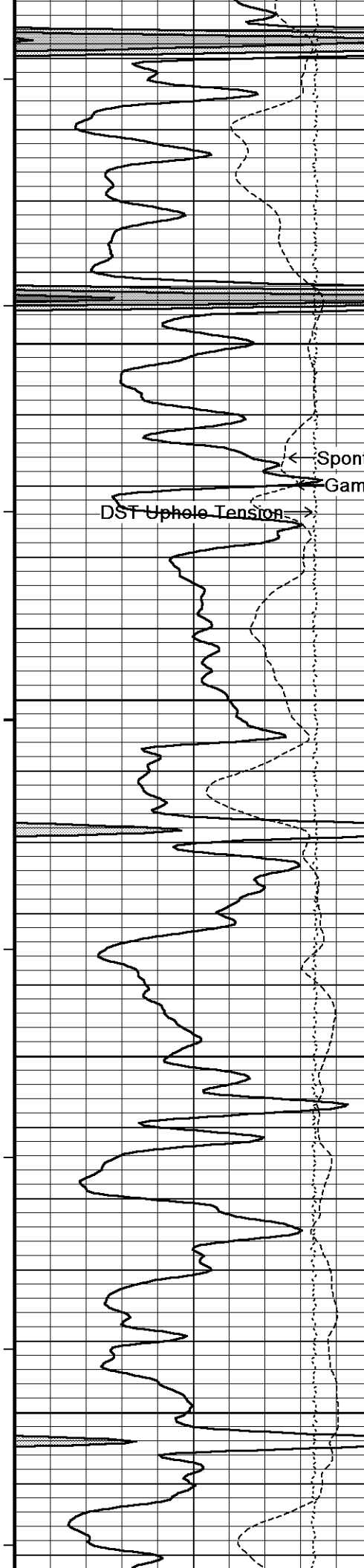
117°

4200

118°

4250





118°

4300

← Spontaneous Potential

→ Gamma Ray

DST Uphole Tension →

118°

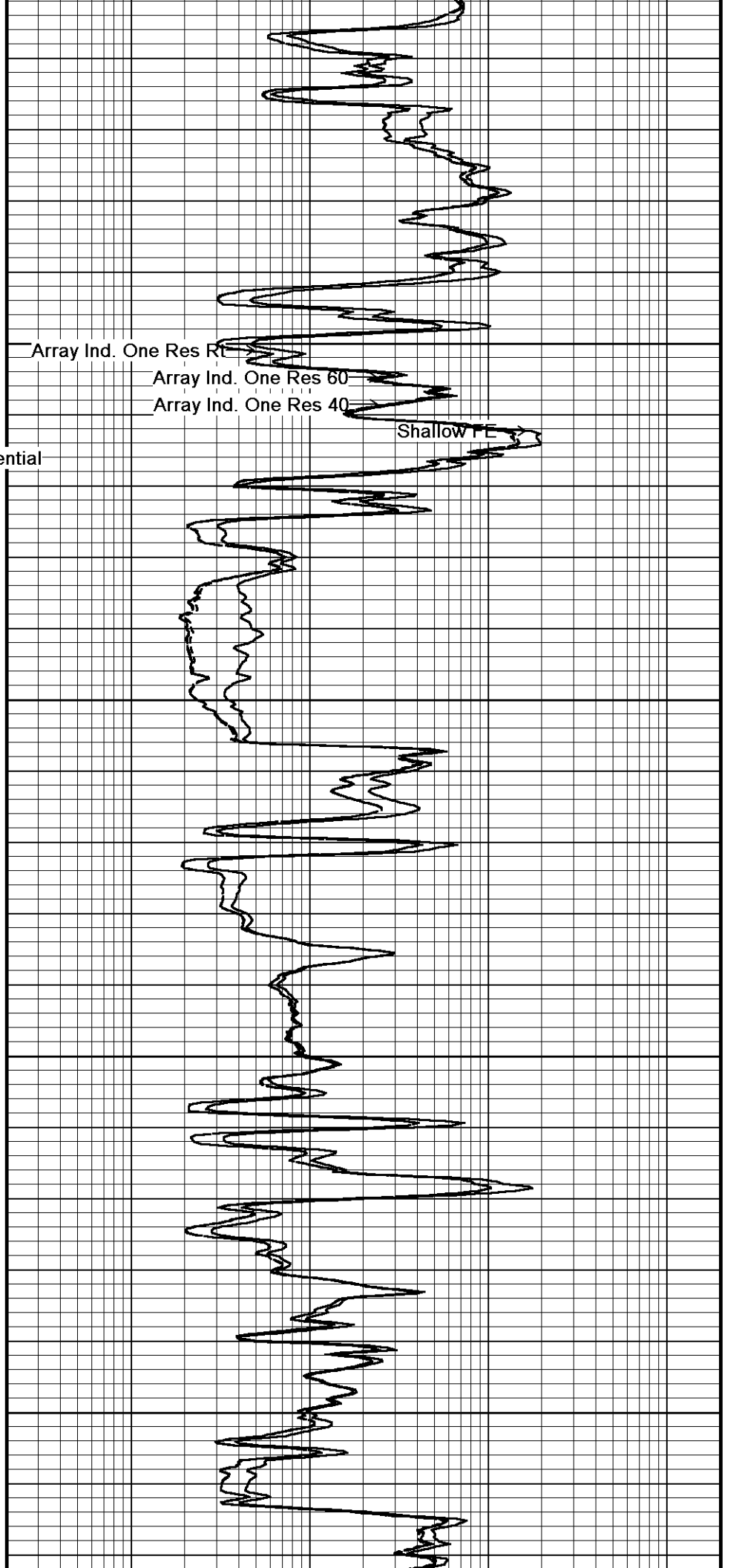
4350

118°

4400

119°

4450

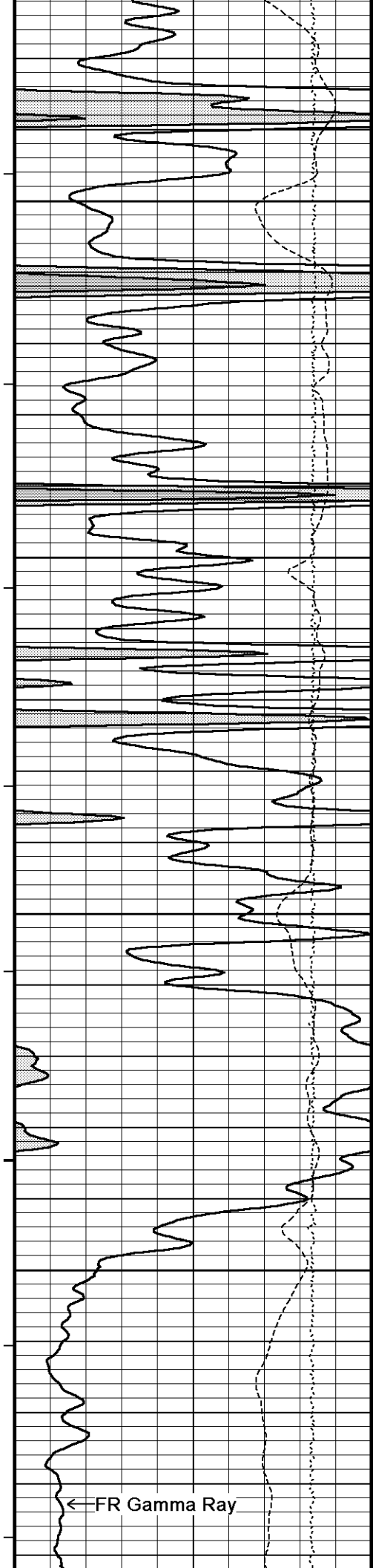


Array Ind. One Res Rt →

Array Ind. One Res 60 →

Array Ind. One Res 40 →

Shallow FE →



120°

4500

120°

4550

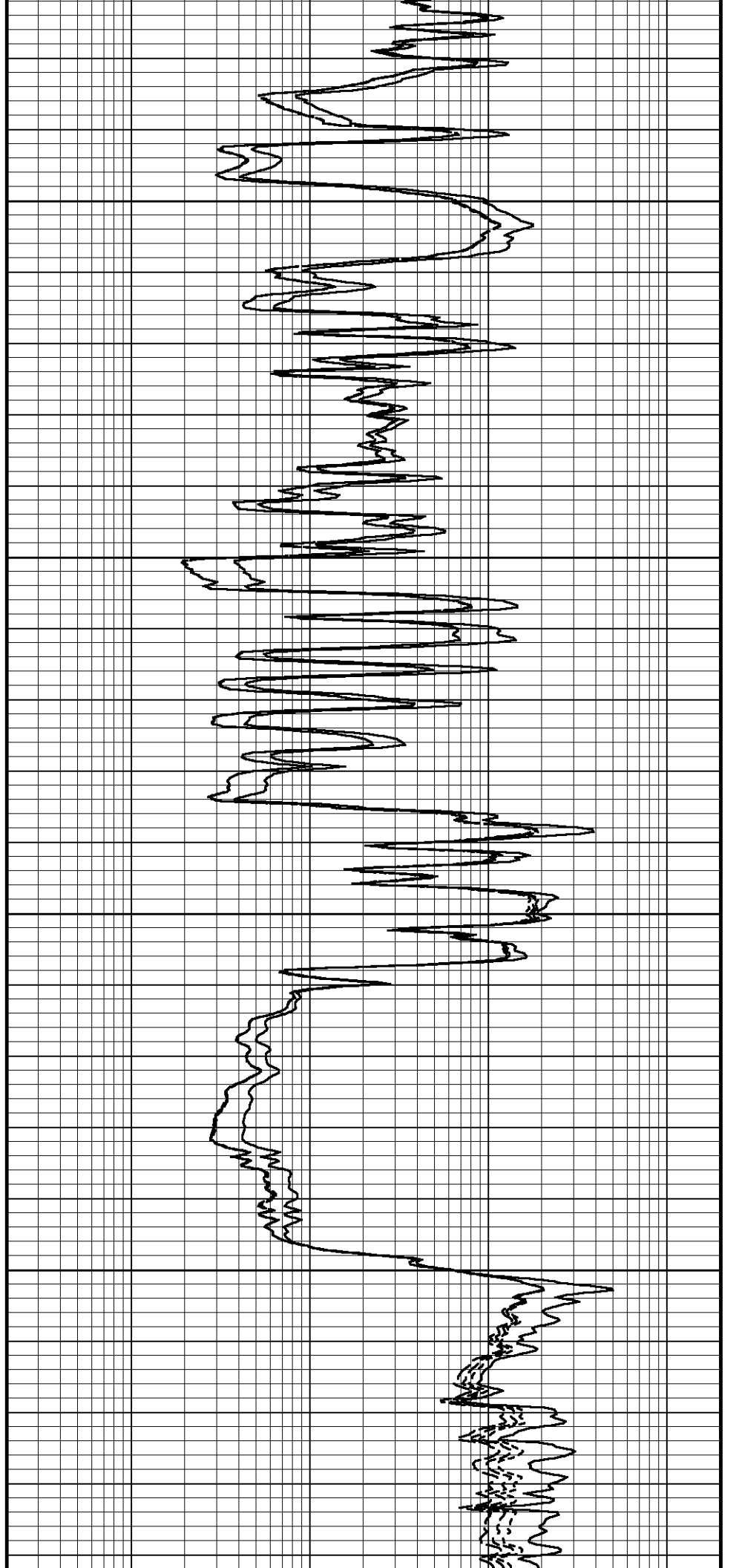
121°

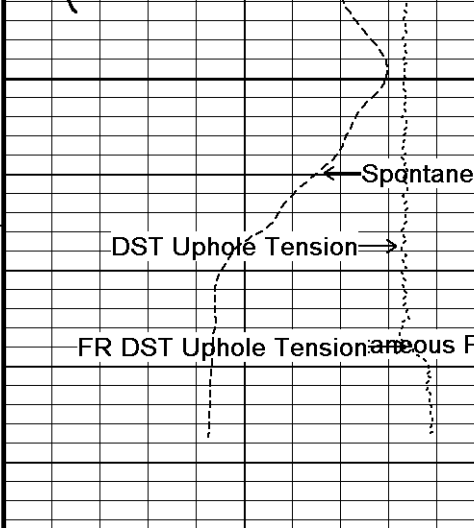
4600

121°

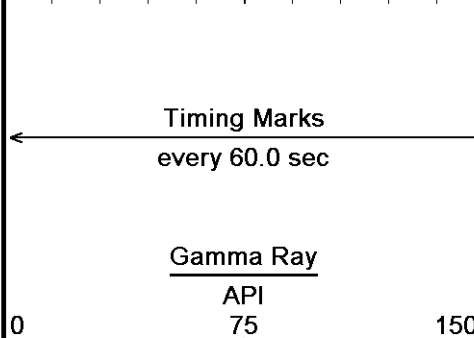
4650

121°

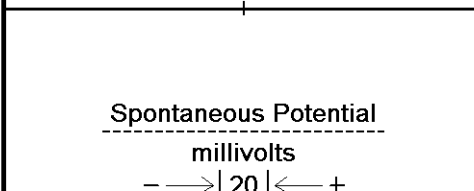




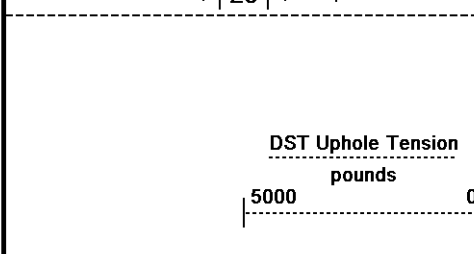
4700
 Spontaneous Potential
 DST Uphole Tension
 FR DST Uphole Tension



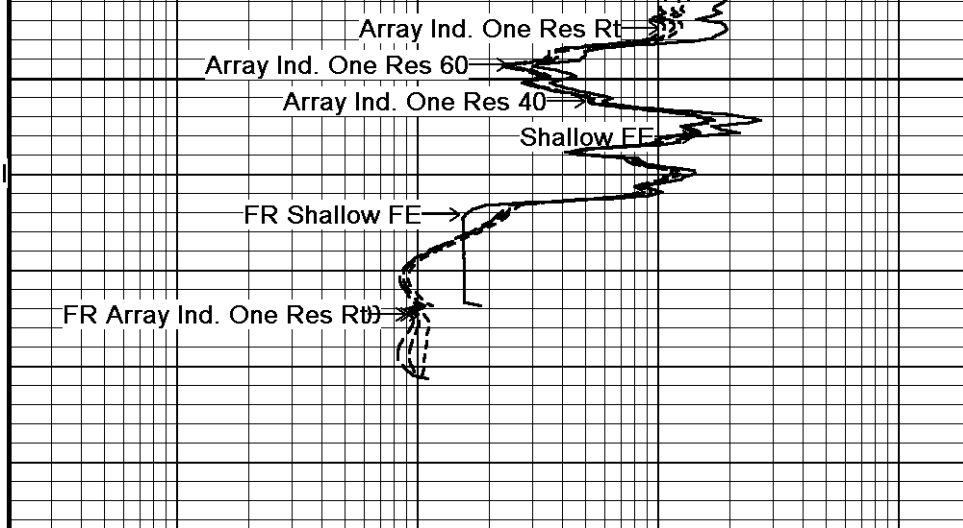
4744
 Depth in Feet



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

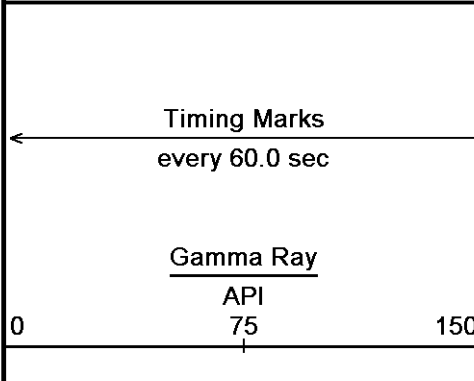
Array Ind. One Res Rt
 ohm metres
 0.20 1 10 100 1000 2000

Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 02-JUL-2011 17:02
 Filename: C:\Minimus 11.02.3186\Data\Grand Mesa Dale #2-34\Grand Mesa Dale #2-34_003.dta
 Recorded on 02-JUL-2011 14:52
 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 02-JUL-2011 17:02
 Filename: C:\Minimus 11.02.3186\Data\Grand Mesa Dale #2-34\Grand Mesa Dale #2-34_002.dta
 Recorded on 02-JUL-2011 14:32
 System Versions: Logged with 11.02.3186 Plotted with 11.02.3186



Depth in Feet
 Borehole Temp in deg F

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

Spontaneous Potential

millivolts

--->|20|<---

DST Uphole Tension

pounds

5000 0

deg T

Replay
Scale
1:240

4400

118°

4450

119°

4500

120°

4550

Array Ind. One Res 60

ohm metres

0.20

1

10

100

1000

2000

Array Ind. One Res Rt

ohm metres

0.20

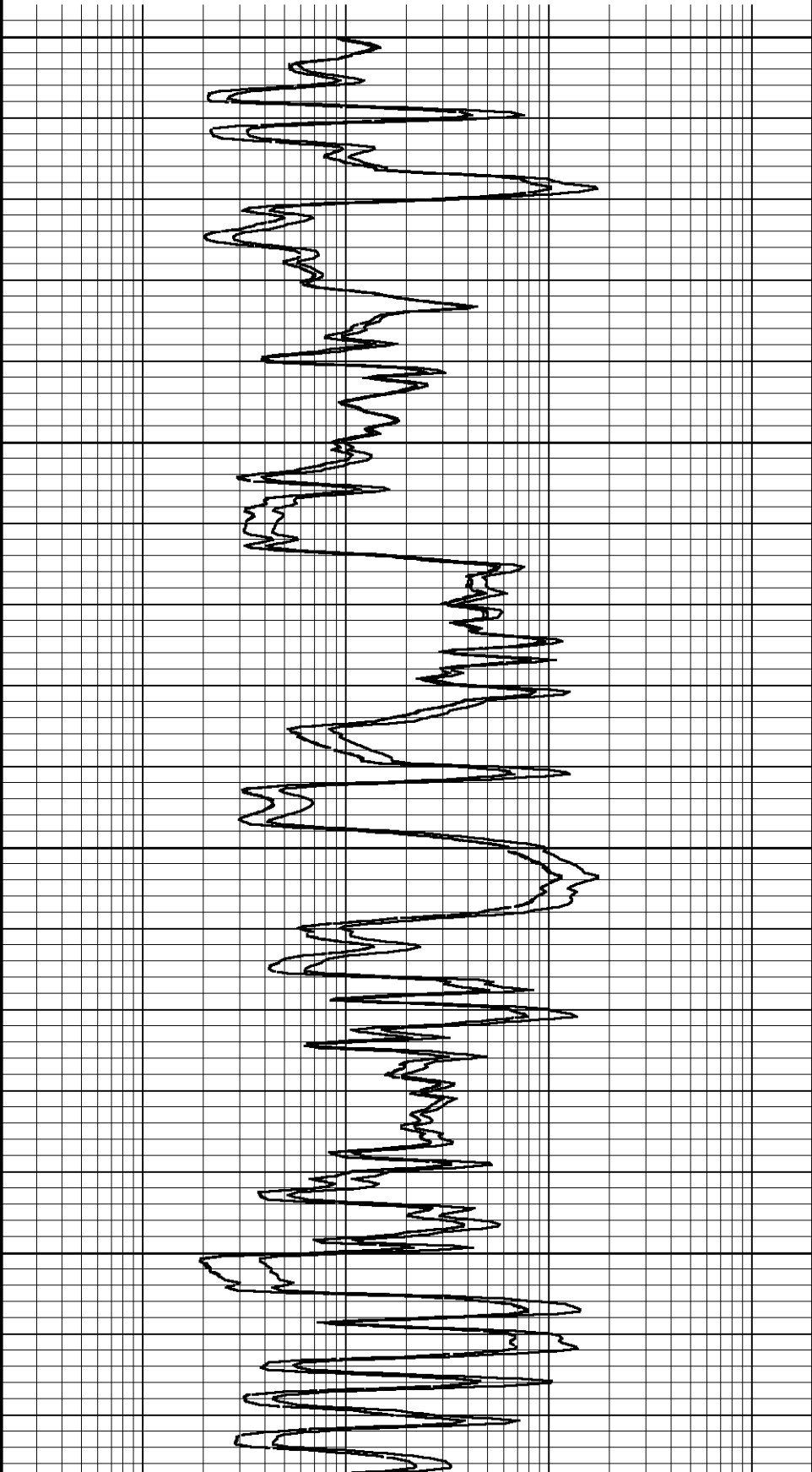
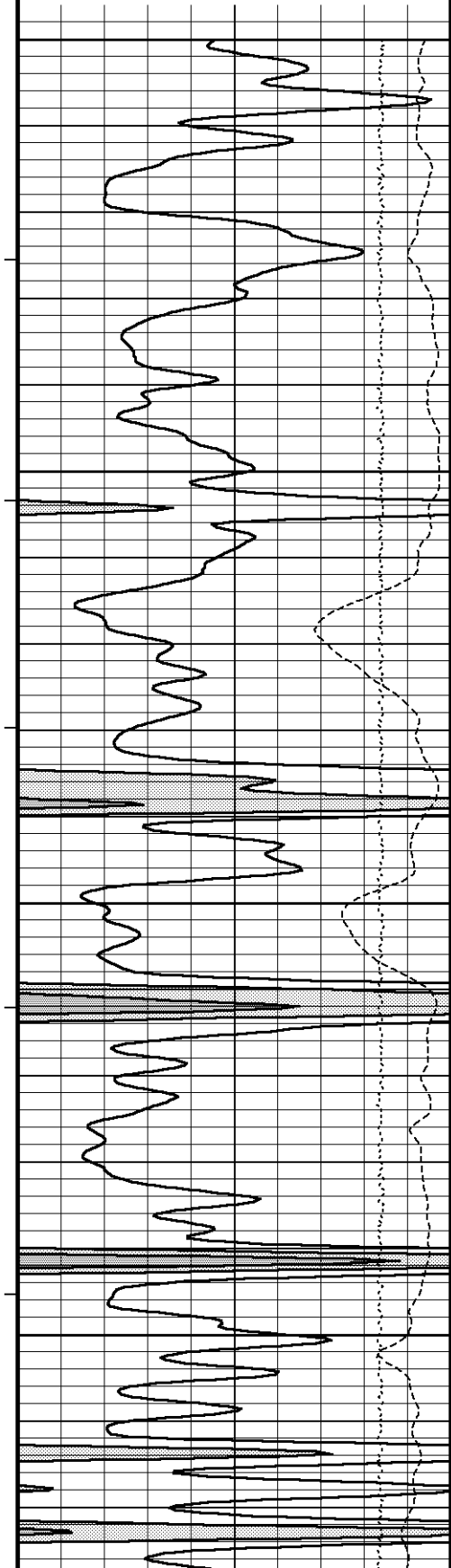
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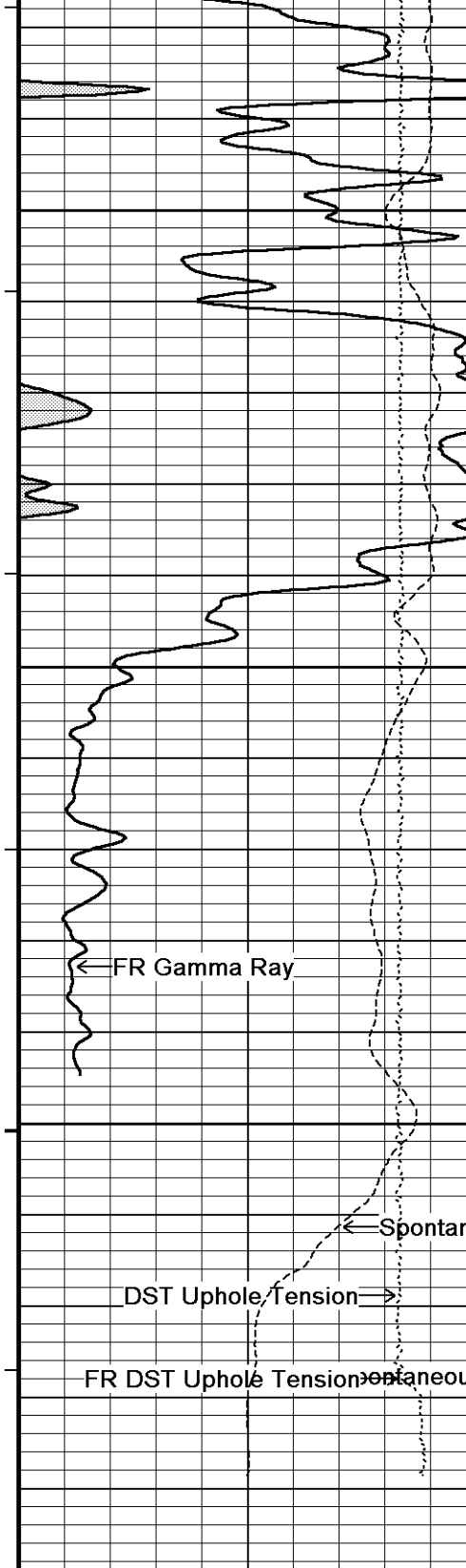
10

100

1000

2000





121°

4600

121°

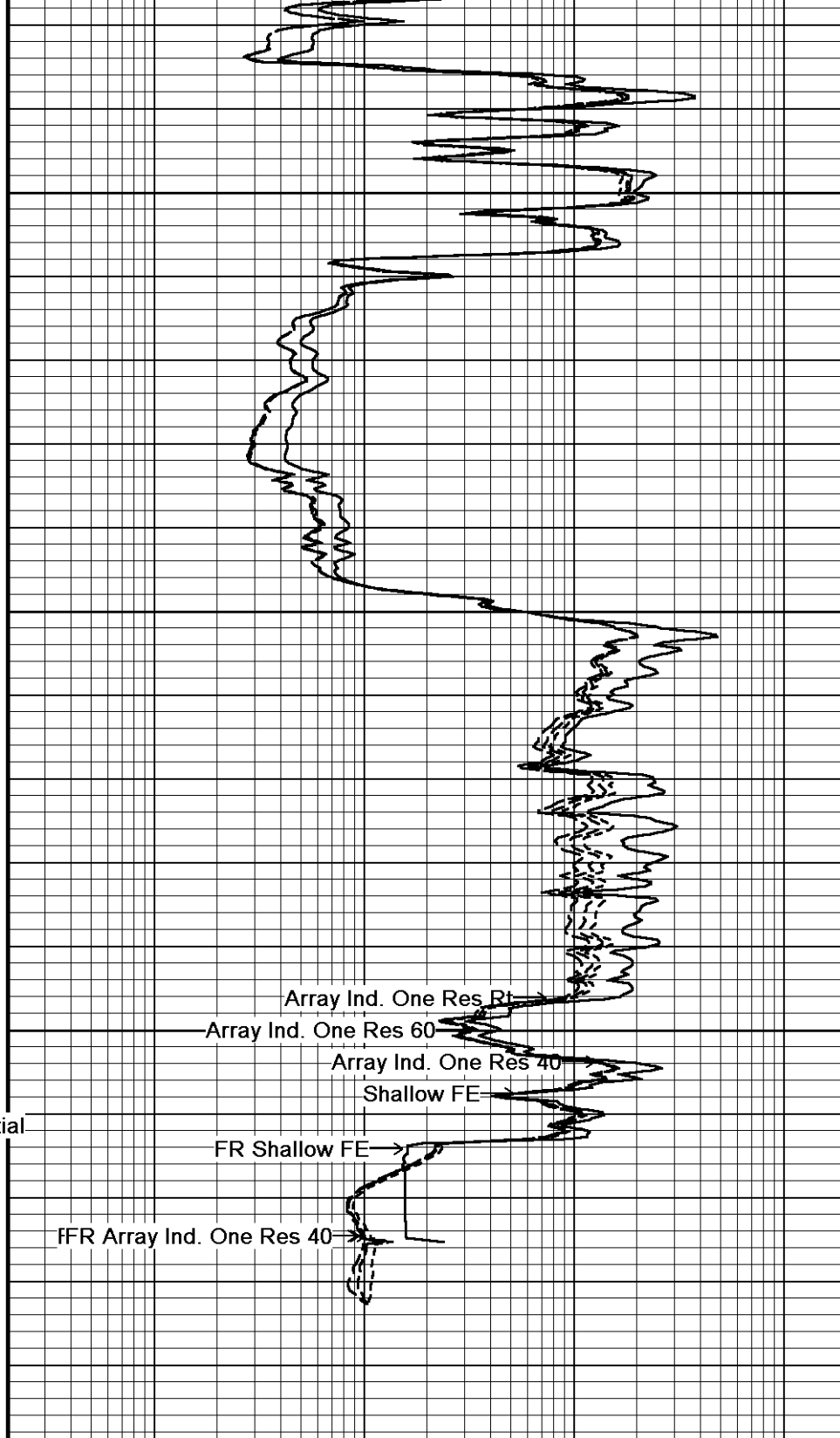
4650

121°

4700

4750

Depth in Feet



Shallow FE
ohm metres

0.20 1 10 100 1000 2000

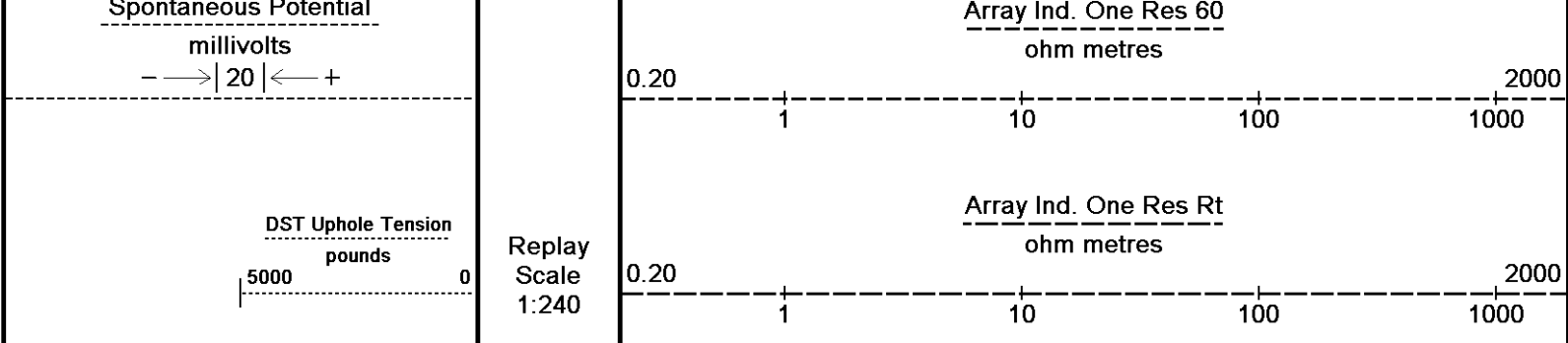
Array Ind. One Res 40
ohm metres

0.20 1 10 100 1000 2000

Timing Marks
every 60.0 sec

Gamma Ray
API
0 75 150

Borehole
Temp in
deg F



Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 02-JUL-2011 17:02
 Filename: C:\Minimus 11.02.3186\Data\Grand Mesa Dale #2-34\Grand Mesa Dale #2-34_002.dta
 Recorded on 02-JUL-2011 14:32
 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\Grand Mesa Dale #2-34\Grand Mesa Dale #2-34.dta

General Constants All 000 Last Edited on 02-JUL-2011,13:28

General Parameters

Mud Resistivity	1.220	ohm-metres
Mud Resistivity Temperature	93.000	degrees F
Water Level	0.000	feet
Density/Neutron Processing	Wet Hole	

Hole/Annular Volume and Differential Caliper Parameters

HVOL Method	Single Caliper	
HVOL Caliper 1	Density Caliper	
HVOL Caliper 2	N/A	
Annular Volume Diameter	5.500	inches
Caliper for Differential Caliper	Density Caliper	

Rwa Parameters

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

Down-hole Tension Calibration SMS 0 Field Calibration on 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
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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 01-JUL-2011 17:19

	Measured	Calibrated (API)
Background	68	47
Calibrator (Gross)	1102	772
Calibrator (Net)	1034	725

Gamma Constants MCG-B 34 Last Edited on 02-JUL-2011 13:06

Gamma Calibrator Number	grc38	
Mud Density	1.12	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 26-JUN-2011 03:14

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 02-JUL-2011,13:17

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 26-JUN-2011 03:13

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)
6.01	5.98

Neutron Calibration MDN-A.B 65

Base Calibration on 16-MAY-2011 11:23

Field Check on 01-JUL-2011 18:26

Base Calibration

Ratio	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	3166	99	3714	110
	31.935		33.764	

Field Calibrator at Base

Ratio	Calibrated (cps)
	1629 2336
	0.697

Field Check

Ratio	Calibrated (cps)
	1626 2342
	0.694

Neutron Constants MDN-A.B 65

Last Edited on 02-JUL-2011,13:28

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 26-JUN-2011 03:06

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 02-JUL-2011,13:21

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 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

Induction Calibration MAI-A.A 45

Base Calibration on 13-AUG-2010,13:32
Field Check on 26-JUN-2011 03:04

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	19.6	3845.3
2	0.0	0.0	33.1	3631.5
3	0.0	0.0	30.0	3050.3
4	0.0	0.0	20.4	2093.9
Deep	0.0	0.0	18.0	1920.7
Medium	0.0	0.0	43.2	4050.7
Shallow	0.0	0.0	50.2	5475.0

Array Temperature 0.0 87.3 Deg F

Induction Constants MAI-A.A 45

Last Edited on 02-JUL-2011,13:23

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	
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 01-JUL-2011 18:48

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)
	5.98	5.98

Photo Density Calibration MPD-B 65

Base Calibration on 16-MAY-2011 10:48
Field Check on 01-JUL-2011 18:37

Density Calibration				
Base Calibration		Measured	Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	51543	24465	59556	30836
Reference 2	20910	2298	24941	2541
Field Check at Base				
	1247.1	1201.6		
Field Check				
	1246.2	1194.6		
PE Calibration				
Base Calibration		Measured	Calibrated	
	WS	WH	Ratio	Ratio
Background	227	1108		
Reference 1	19826	51340	0.390	0.371
Reference 2	5731	20764	0.280	0.272
Field Check at Base				
	226.6	1107.8		
Field Check				
	225.0	1112.1		

Density Constants MPD-B 65

Last Edited on 02-JUL-2011,13:19

Density Source Id	234	
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	1.12	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	0.00

DOWNHOLE EQUIPMENT

C:\Minimus 11.02.3186\Data\Grand Mesa Dale #2-34\Grand Mesa Dale #2-34.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

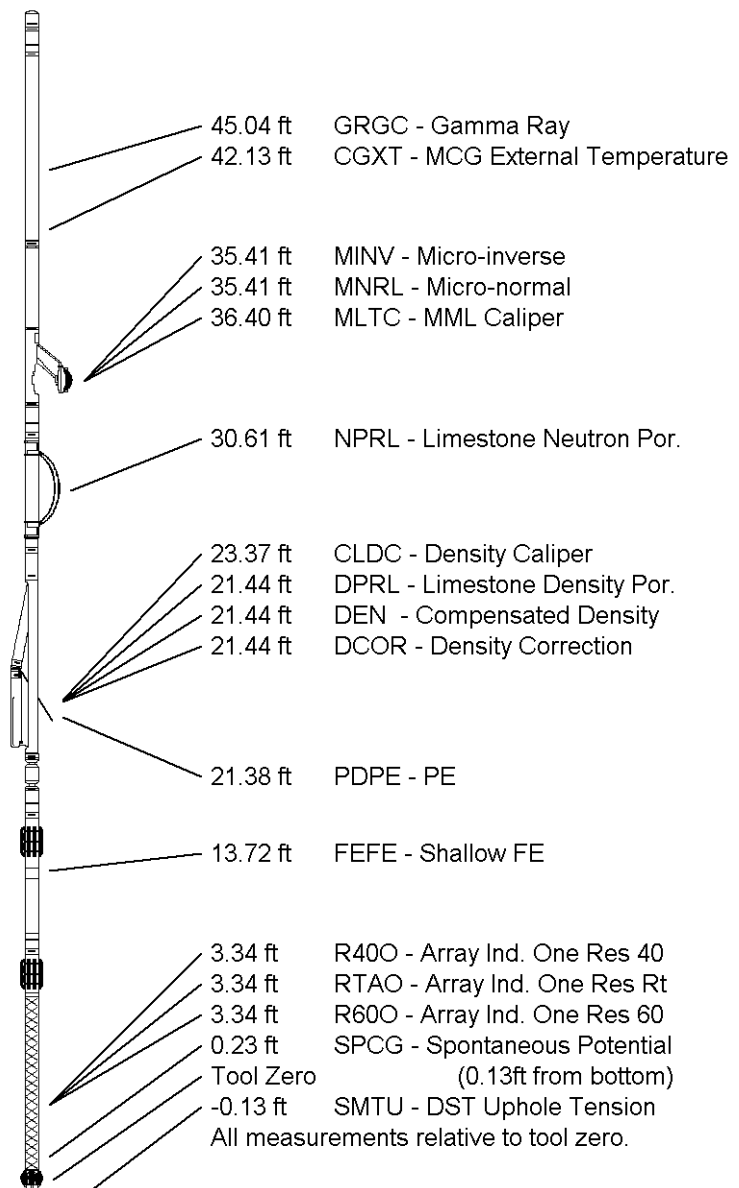
Compact Density/Caliper
 MPD-B 65 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

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

Total Length: 51.90 ft Weight: 423.3 lb



COMPANY

GRAND MESA OPERATING COMPANY

WELL

DALE #2-34

FIELD

WILDCAT

PROVINCE/COUNTY

LOGAN

COUNTRY/STATE

U.S.A. / KANSAS

Elevation Kelly Bushing 2995.00 feet
 Elevation Drill Floor 2993.00 feet
 Elevation Ground Level 2990.00 feet

First Reading 4725.00 feet
 Depth Driller 4730.00 feet
 Depth Logger 4728.00 feet



Weatherford®

ARRAY INDUCTION
 SHALLOW FOCUSED
 ELECTRIC LOG



Weatherford ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG

COMPANY: GRAND MESA OPERATING COMPANY
 WELL: DALE #2-34
 FIELD: WILDCAT
 PROVINCE/COUNTY: LOGAN
 COUNTRY/STATE: U.S.A. / KANSAS
 LOCATION: 478' FNL & 357' FEL

LOG MEASURED FROM: K.B. @ 5 FEET ABOVE PERMANENT DATUM
 DRILLING MEASURED FROM: K.B.

DATE: 02-JUL-2011

PERMITS: 15-109-21012

LOG NUMBER: 135
 TYPE: RSE
 OTHER SERVICES: MNDNMPD

PERMANENT DATUM: G.L., ELEVATION: 2990 FEET
 LOG MEASURED FROM: K.B. @ 5 FEET ABOVE PERMANENT DATUM
 DRILLING MEASURED FROM: K.B.

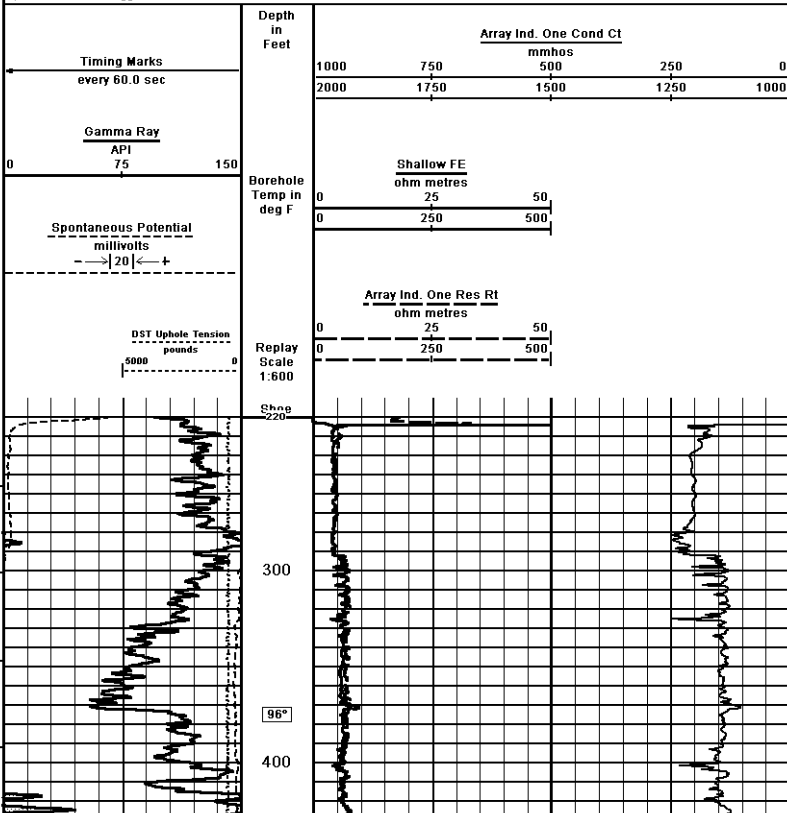
Elevations:
 KB 2995.00
 DF 2993.00
 CL 2990.00

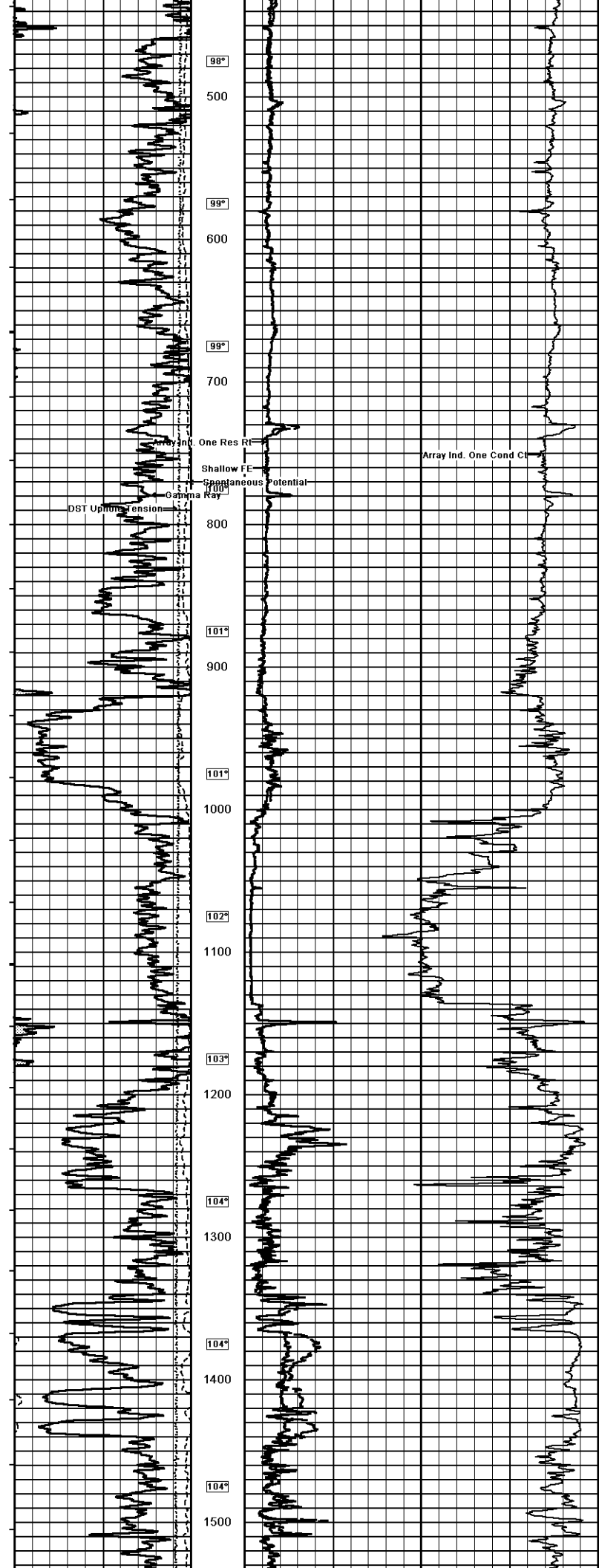
Run Number	ONE
Depth Driller	4730.00 feet
Depth Logger	4728.00 feet
First Reading	4725.00 feet
Last Reading	0.00 feet
Casing Driller	222.00 feet
Casing Logger	220.00 feet
Bit Size	7.875 inches
Hole Fluid Type	CHEMICAL
Density/Viscosity	9.30 lb/USg 65.00 CP
PPH/Fluid Loss	10.00 ml/30min
Sample Source	FLOWLINE
Run @ Measured Temp	1.22 @ 93.0 omm-m
Run @ Measured Temp	0.95 @ 93.0 omm-m
Run @ Measured Temp	1.46 @ 93.0 omm-m
Source From/From	CALC
Run @ BHT	0.95 @ 21.0 omm-m
Time Since Circulation	5 HOURS
Max Recorded Temp	121.00 deg F
Equipment Name	COMPACT
Equipment Base	LIB
Recorded By	A. GAMBALVO
Witnessed By	KENT MATSON
SOJ/JOE#	3531098

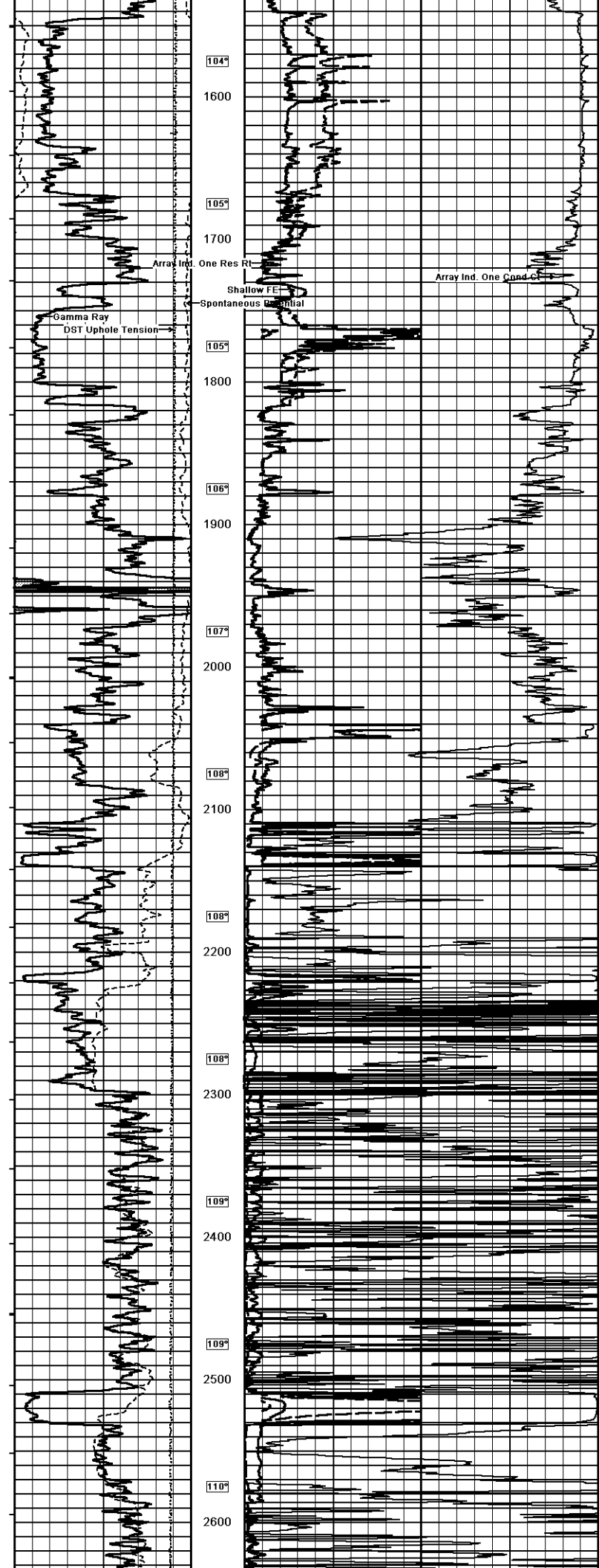
LEB11-150

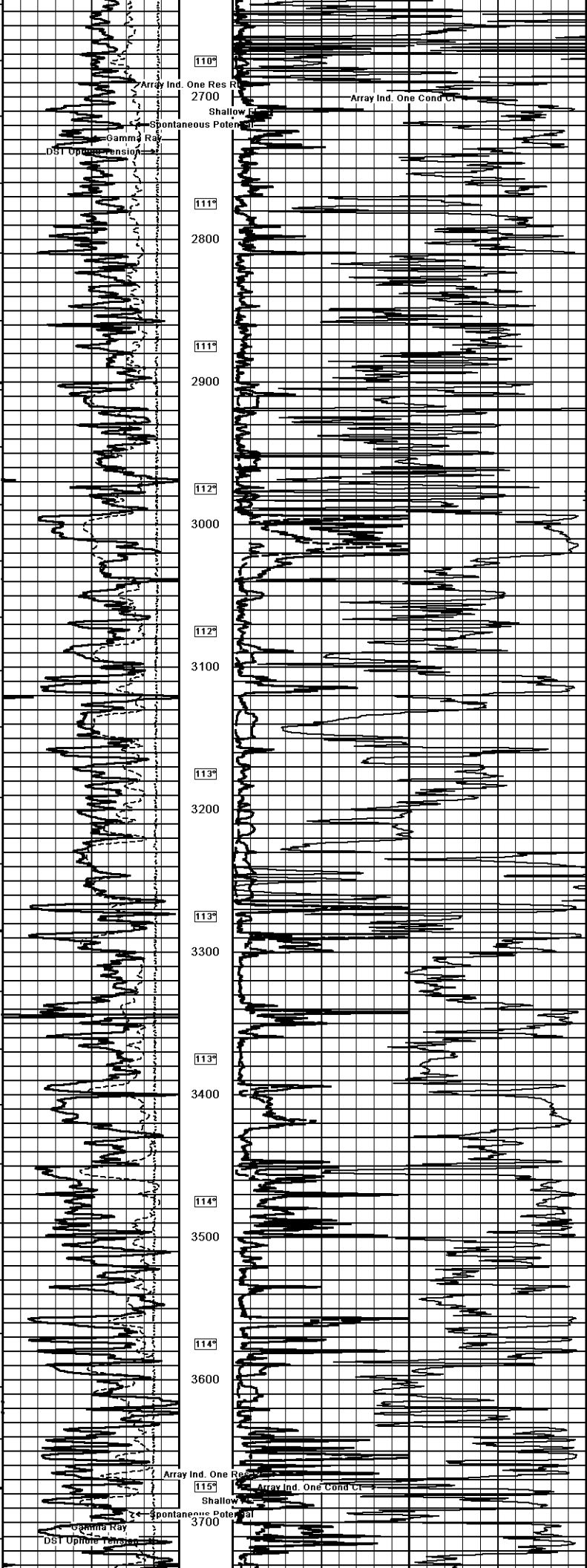
1 INCH MAIN PASS

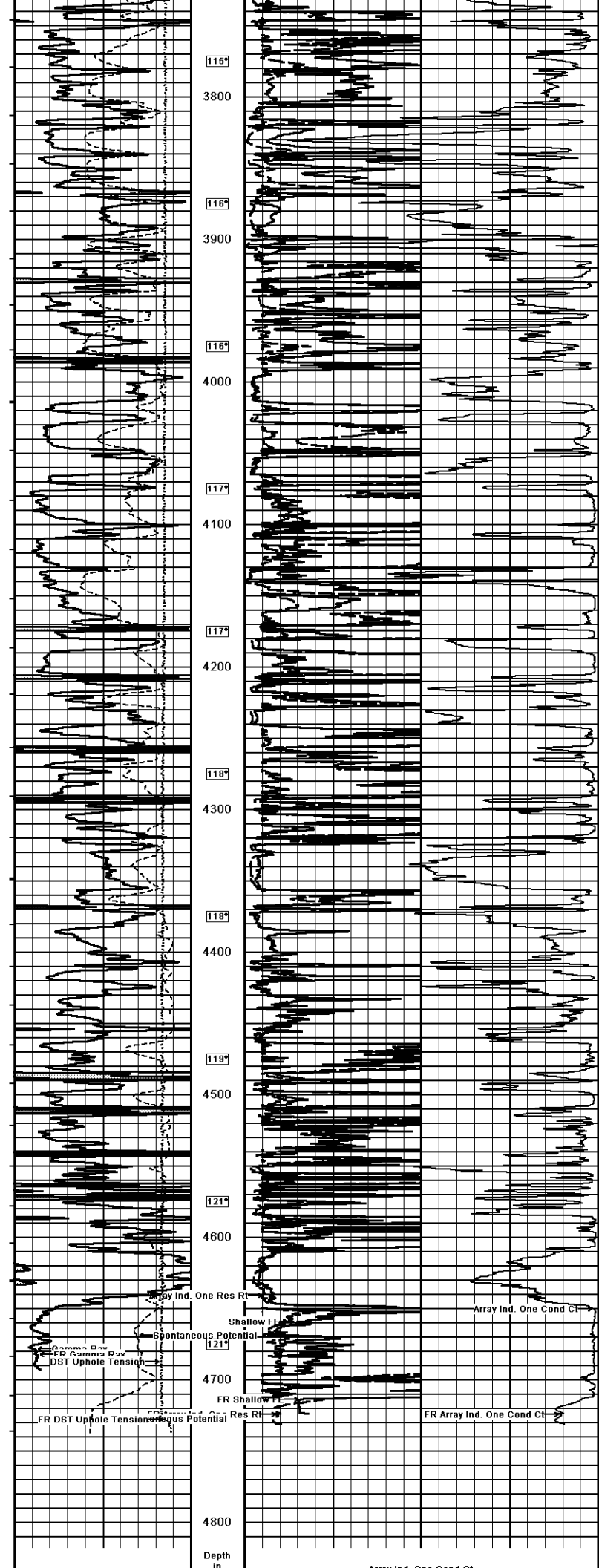
Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 02-JUL-2011 17:02
 Filename: C:\Minimus 11.02.3186\Data\Grand Mesa Dale #2-34\Grand Mesa Dale #2-34_003.dta
 Recorded on 02-JUL-2011 14:52
 System Versions: Logged with 11.02.3186 Plotted with 11.02.3186

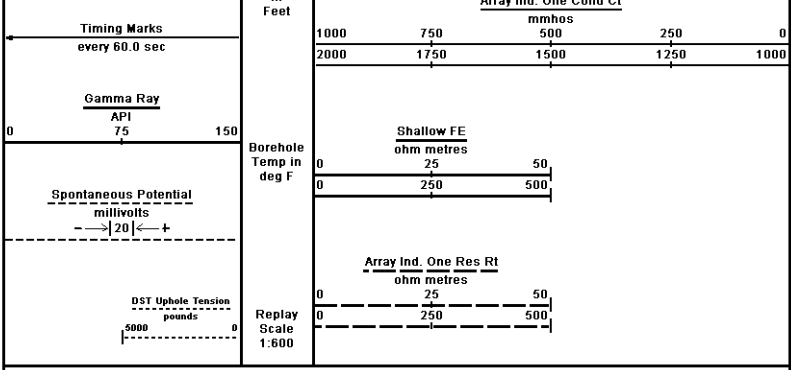












Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 02-JUL-2011 17:02
 Filename: C:\Minimus 11.02.3186\Data\Grand Mesa Dale #2-34\Grand Mesa Dale #2-34_003.dta
 Recorded on 02-JUL-2011 14:52
 System Versions: Logged with 11.02.3186 Plotted with 11.02.3186

1 INCH MAIN PASS

COMPANY	GRAND MESA OPERATING COMPANY				
WELL	DALE #2-34				
FIELD	WILDCAT				
PROVINCE/COUNTY	LOGAN				
COUNTRY/STATE	U.S.A. / KANSAS				
Elevation Kelly Bushing	2995.00	feet	First Reading	4725.00	feet
Elevation Drill Floor	2993.00	feet	Depth Driller	4730.00	feet
Elevation Ground Level	2990.00	feet	Depth Logger	4728.00	feet

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ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG