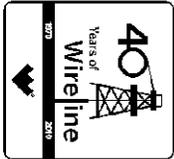




Weatherford

ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG

COMPANY **O'BRIEN ENERGY RESOURCES CORP.**
 WELL **EAGLE # 1-10**
 FIELD **NOVINGER SOUTHWEST**
 PROVINCE/COUNTY **MEADE**
 COUNTRY/STATE **U.S.A. / KANSAS**
 LOCATION **660' FNL & 1980' FWL**



SEC 10 TWP 34S RGE 30W Other Services MPD/MDN MML
 API Number 15-119-21298
 Permit Number

Permanent Datum G.L., Elevation 2681 feet
 Log Measured From KB
 Drilling Measured From K.B. @ 12 FEET

Elevations: feet
 KB 2693.00
 DF 2691.00
 GL 2681.00

| | |
|------------------------|----------------------|
| Date | 13-OCT-2011 |
| Run Number | ONE |
| Depth Driller | 6300.00 feet |
| Depth Logger | 6292.00 feet |
| First Reading | 6289.00 feet |
| Last Reading | 2500.00 feet |
| Casing Driller | 1505.00 feet |
| Casing Logger | 1500.00 feet |
| Bit Size | 7.875 inches |
| Hole Fluid Type | CHEMICAL |
| Density / Viscosity | 9.10 lb/USg 60.00 CP |
| PH / Fluid Loss | 11.00 6.80 ml/30Min |
| Sample Source | MML DOWNHOLE |
| Rm @ Measured Temp | 0.90 @ 82.0 ohm-m |
| Rmf @ Measured Temp | 0.72 @ 82.0 ohm-m |
| Rmc @ Measured Temp | 1.08 @ 82.0 ohm-m |
| Source Rmf / Rmc | CALC CALC |
| Rm @ BHT | 0.60 @125.0 ohm-m |
| Time Since Circulation | 5 HOURS |
| Max Recorded Temp | 126.00 deg F |
| Equipment Name | COMPACT |
| Equipment / Base | 13096 LIB |
| Recorded By | A. GIAMBALVO |
| Witnessed By | ROGER PEARSON |
| S.O. / JOB # | 3531163 |

| BOREHOLE RECORD | | | Last Edited: 13-OCT-2011 18:11 |
|--------------------|--------------------|------------------|--------------------------------|
| Bit Size inches | Depth From feet | Depth To feet | |
| 7.875 | 1500.00 | 6292.00 | |

| CASING RECORD | | | | |
|---------------|----------------|--------------------|--------------------|---------------------|
| Type | Size inches | Depth From feet | Shoe Depth feet | Weight pounds/ft |
| SURFACE | 8.625 | 0.00 | 1500.00 | 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.
 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 = 888 Cubic Feet
 Service order #3531163
 Rig: Duke #6
 Engineer: A. Giambalvo, W. Stambaugh
 Operator(s): N. Adame

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

2 INCH MAIN

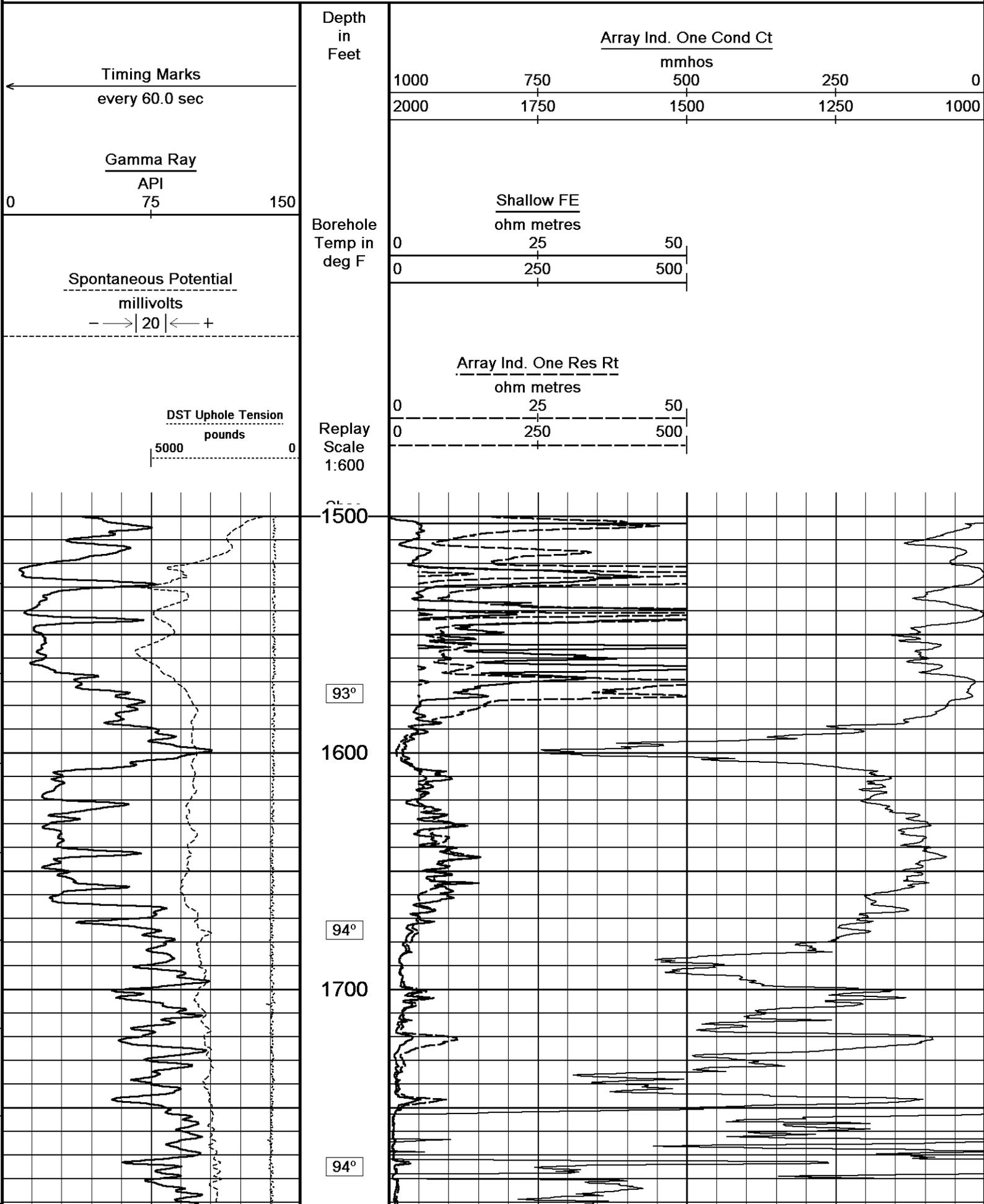
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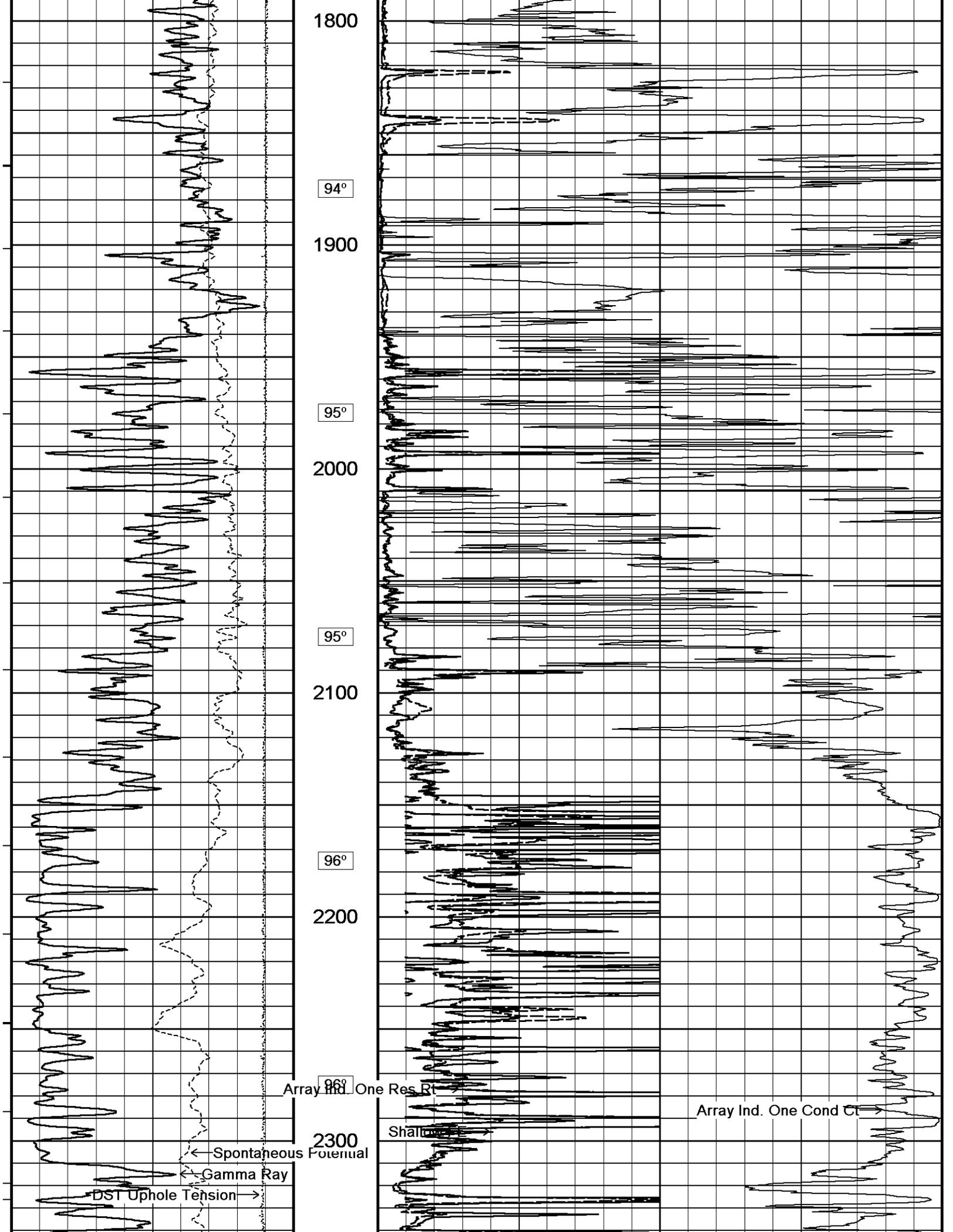
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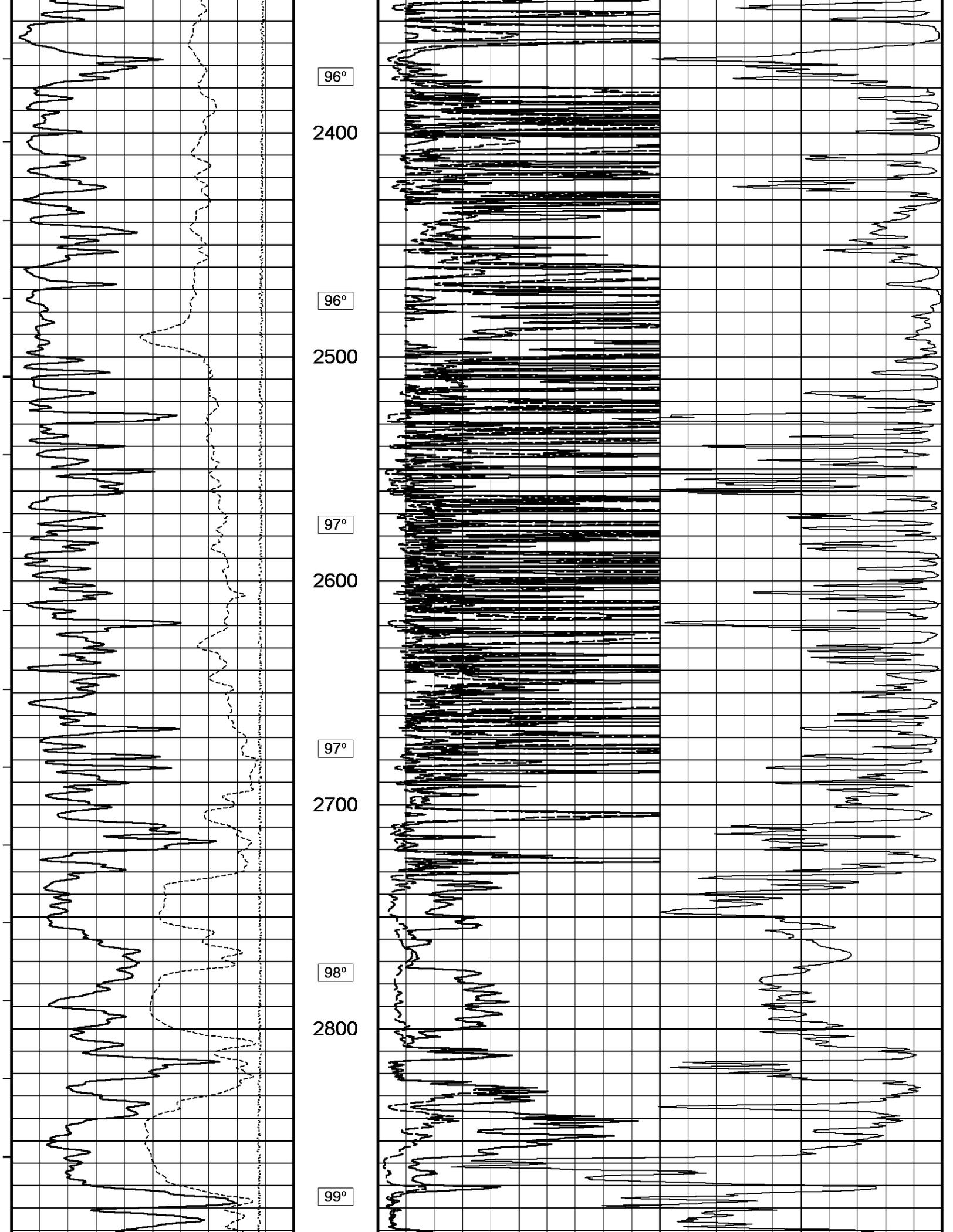
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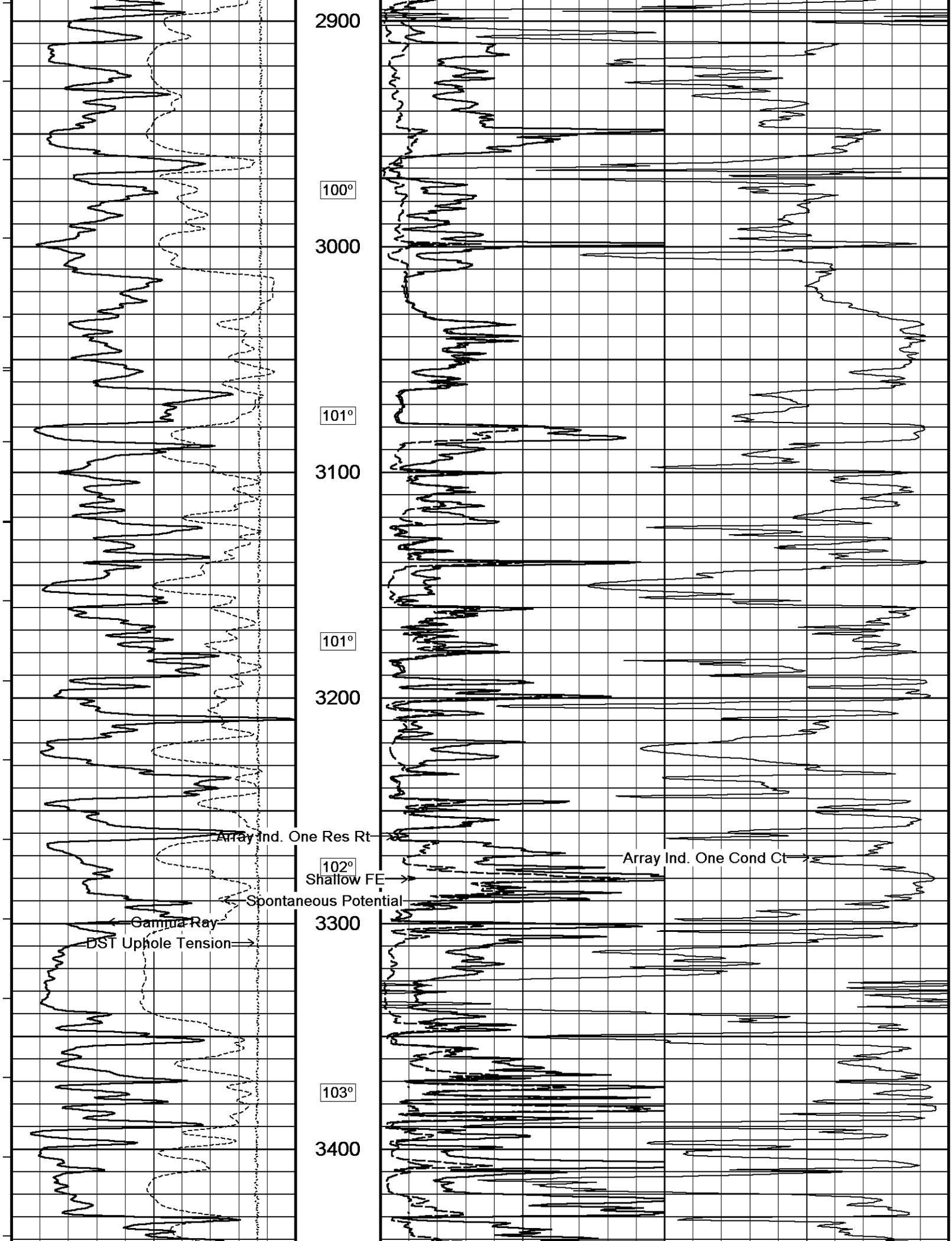
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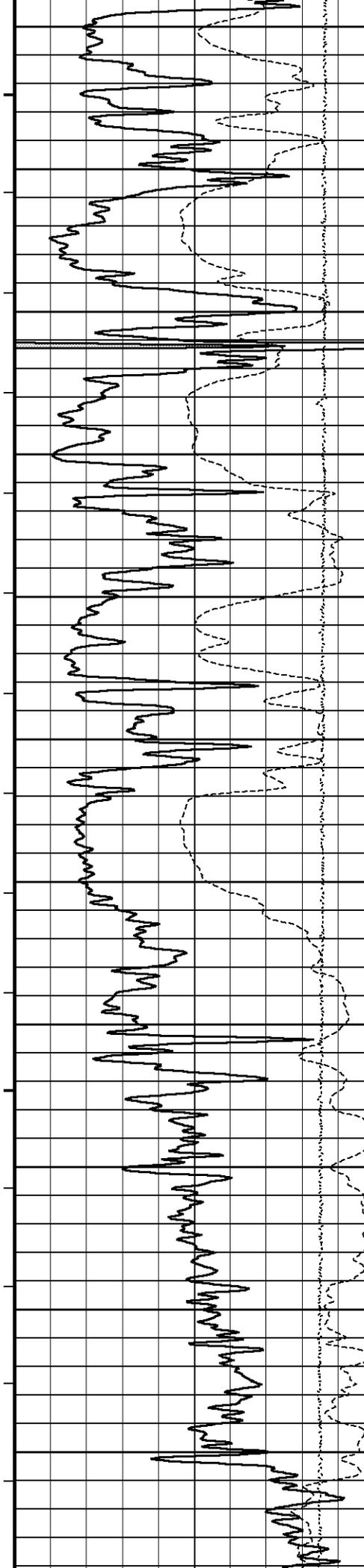
System Versions: Logged with 11.03.4044 Plotted with 12.01.3513











103°

3500

104°

3600

105°

3700

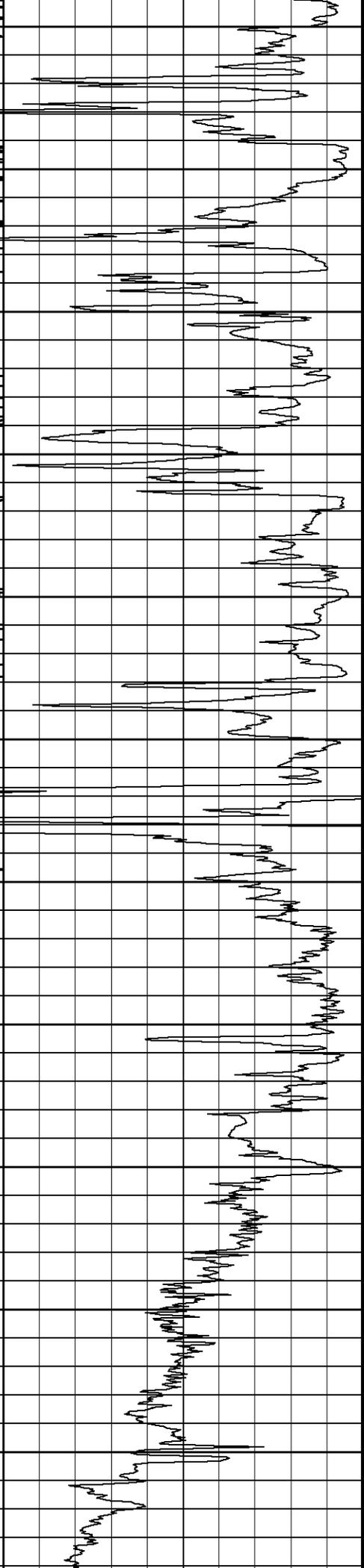
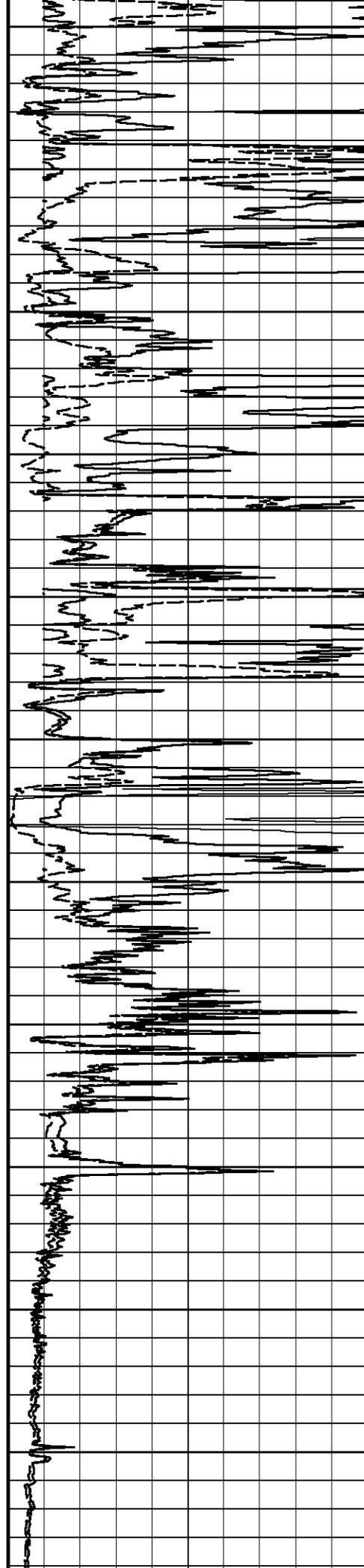
106°

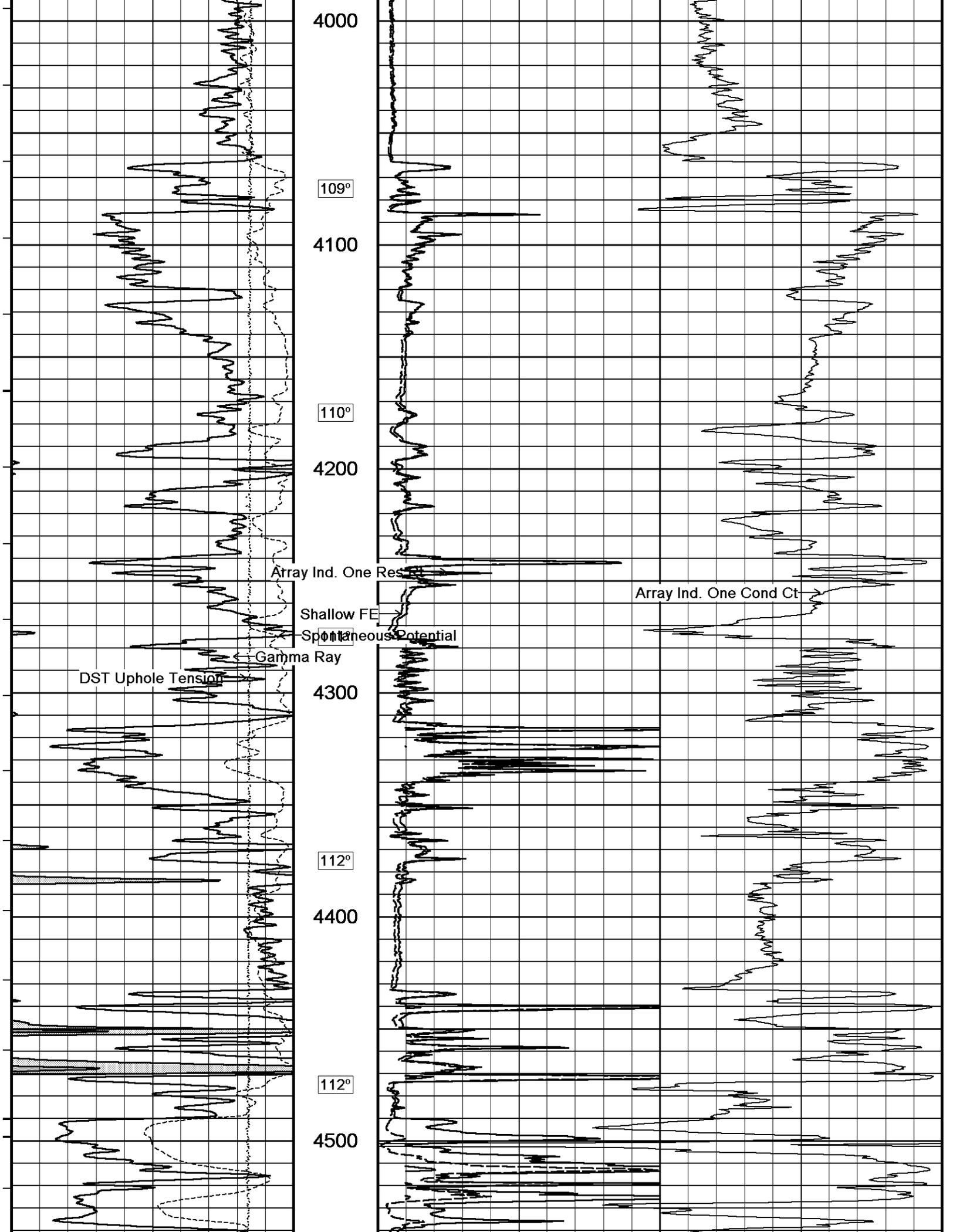
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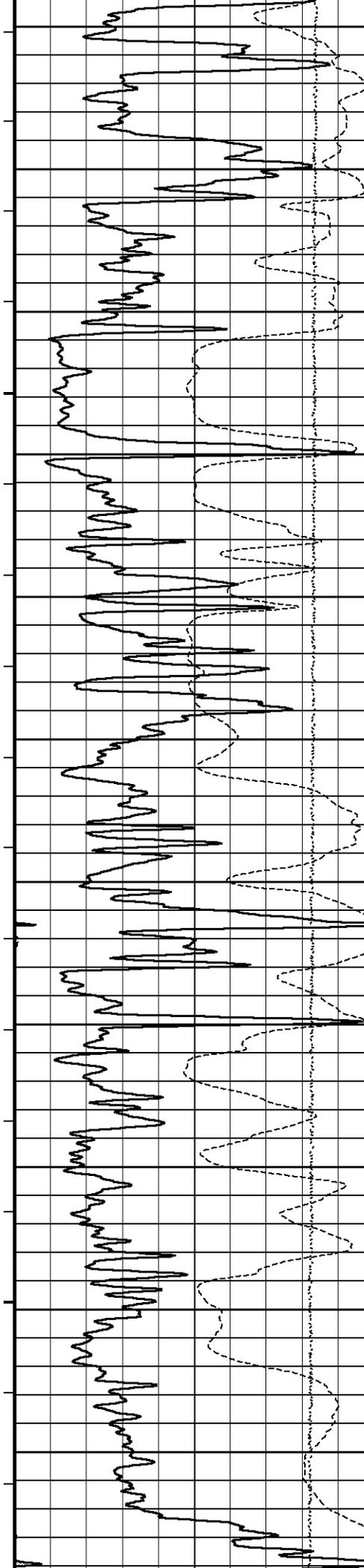
106°

3900

108°







113°

4600

114°

4700

115°

4800

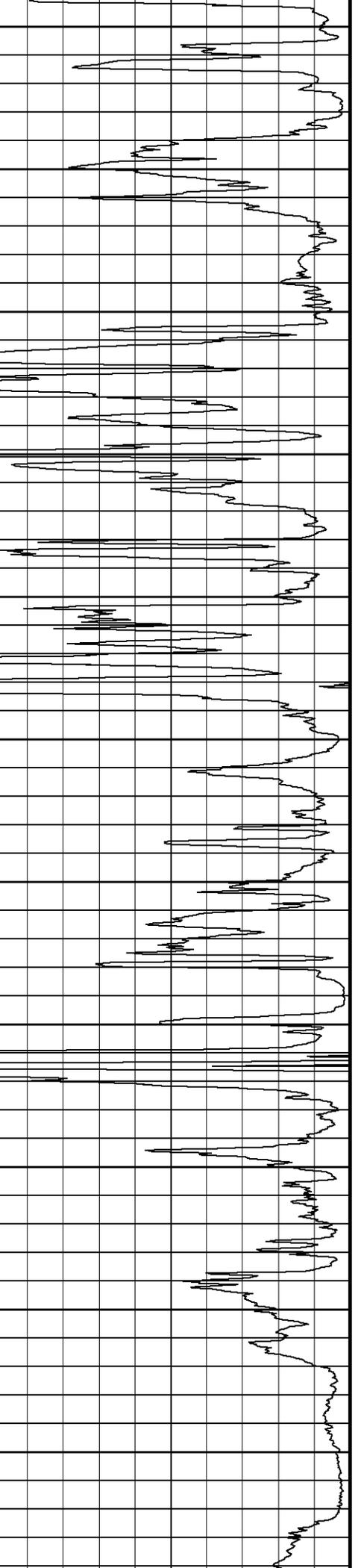
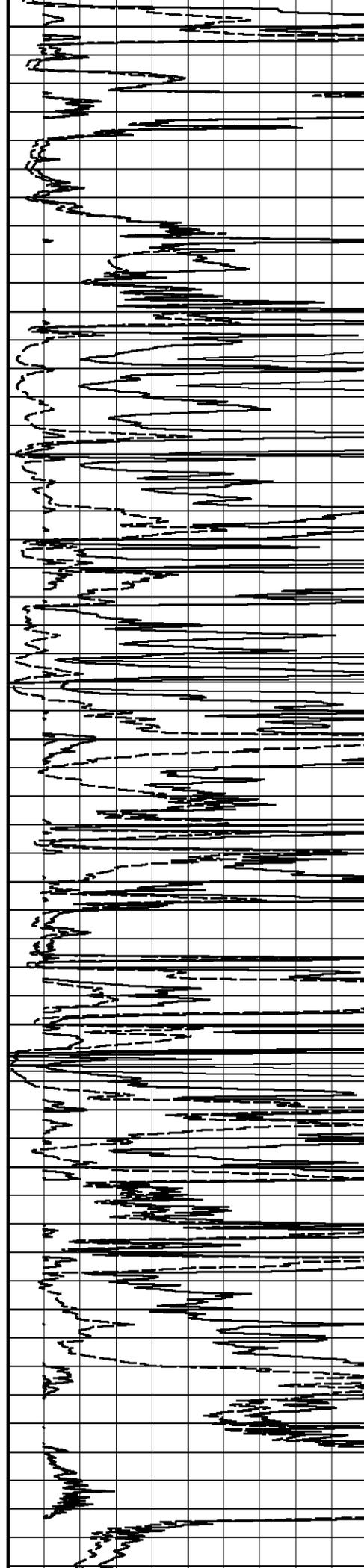
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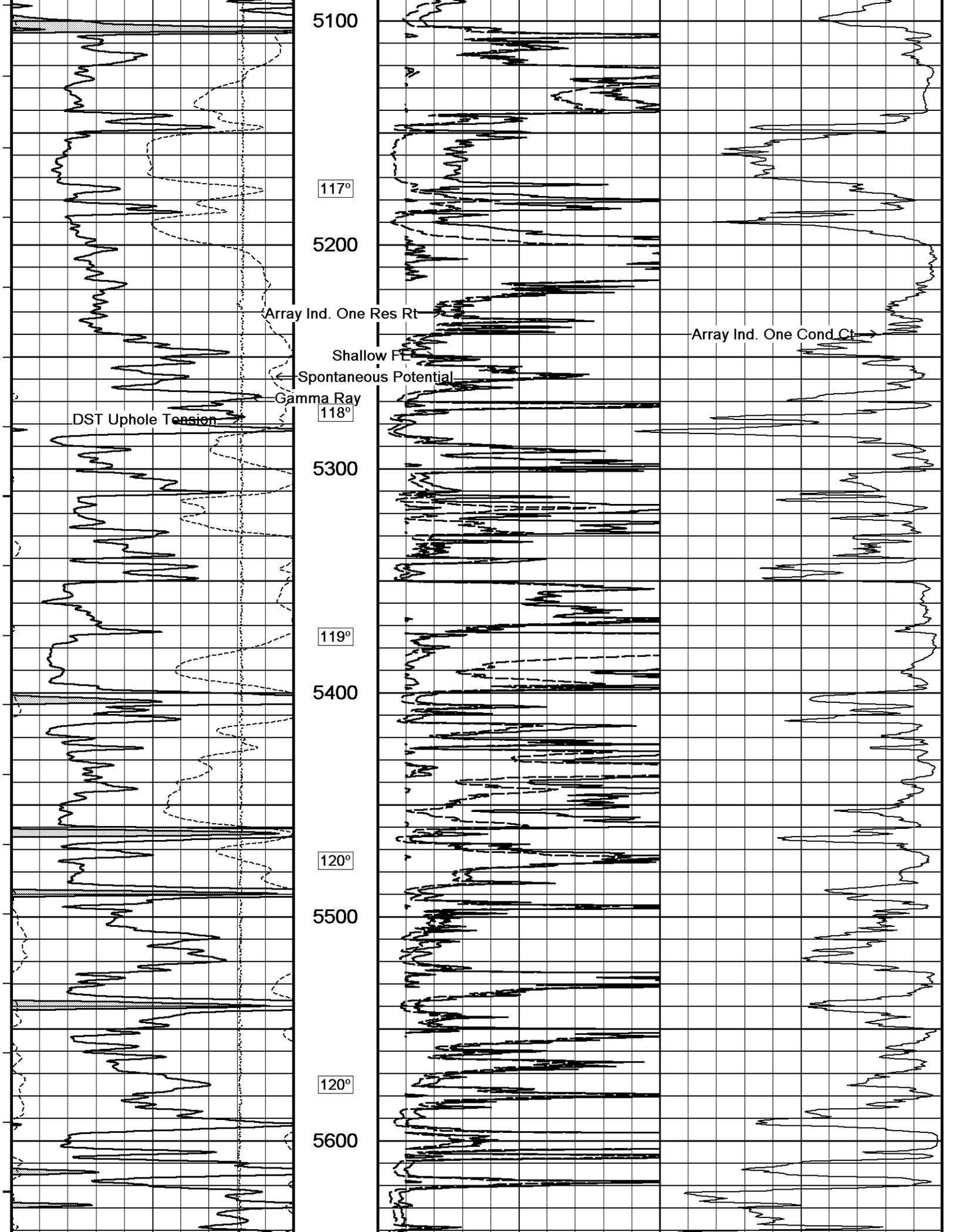
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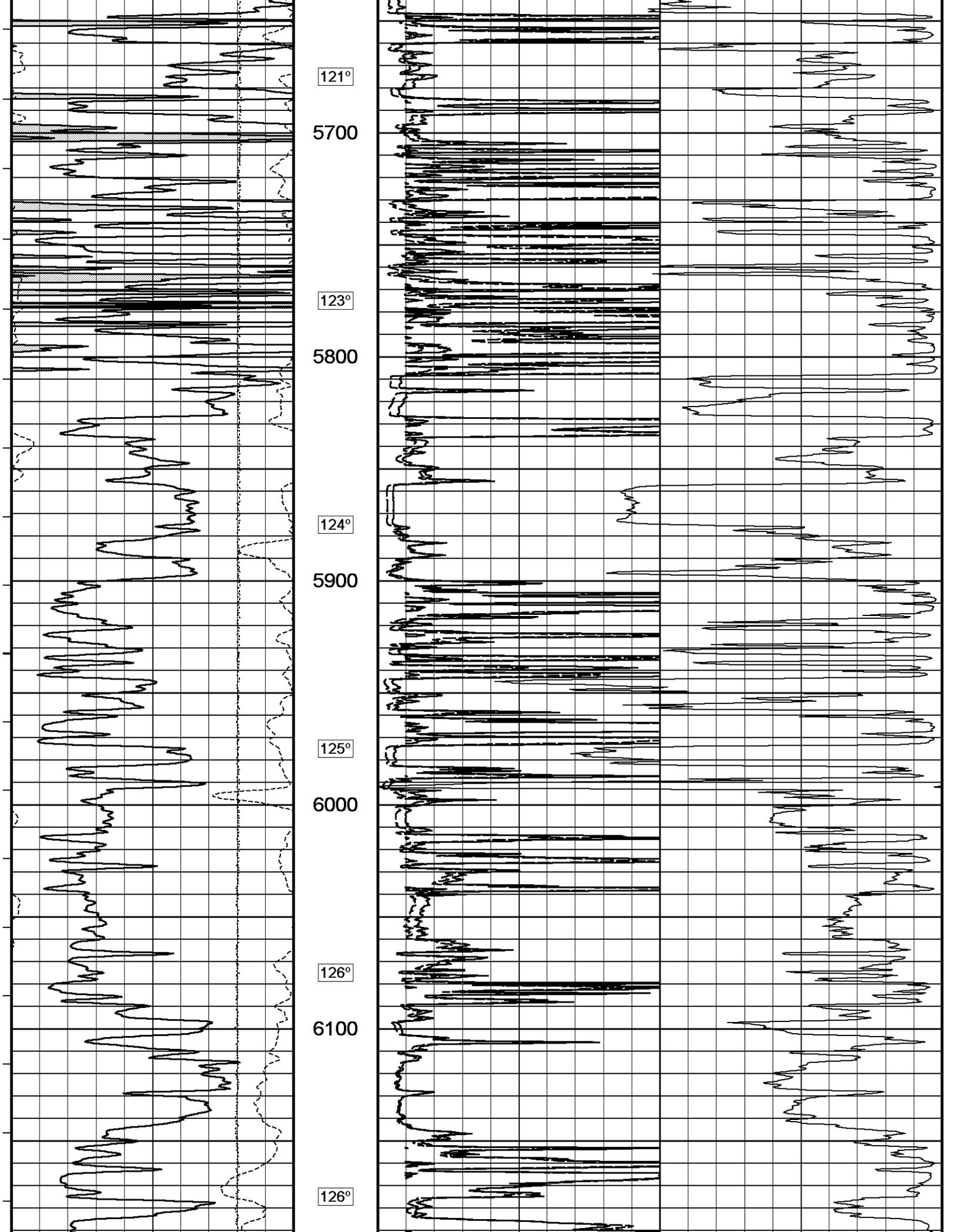
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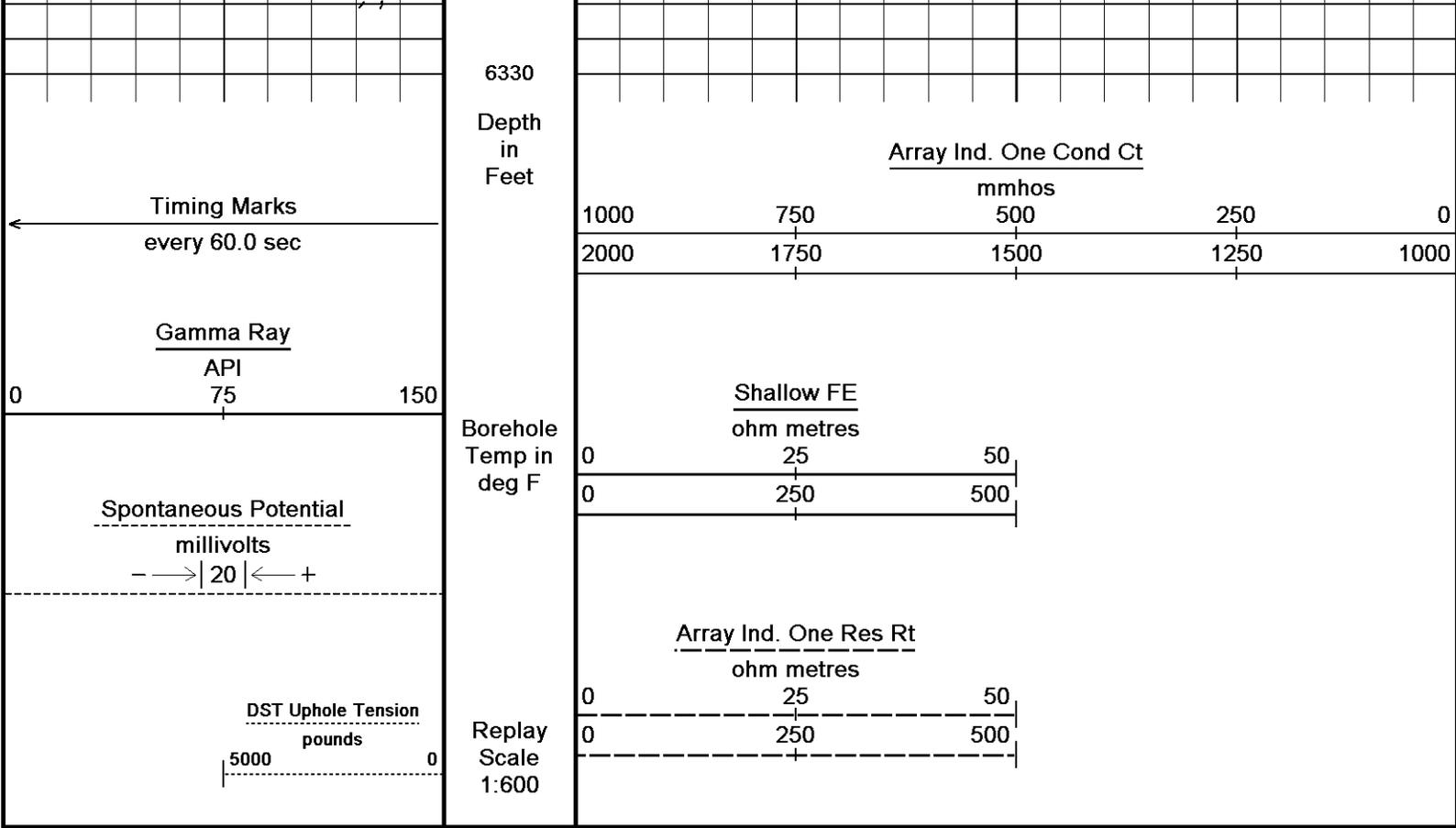
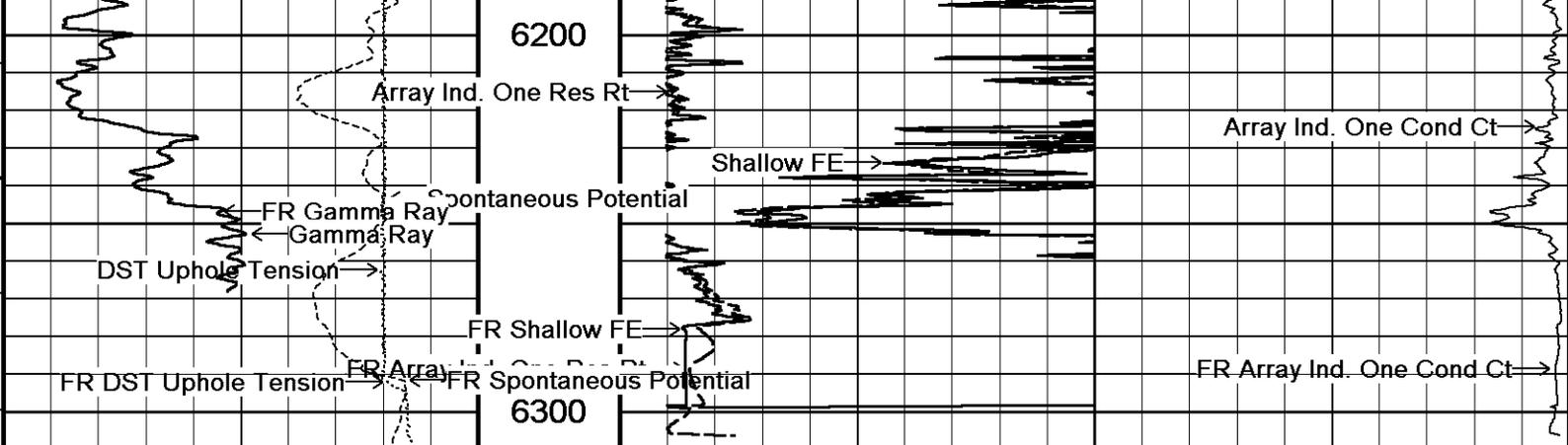
5000

116°







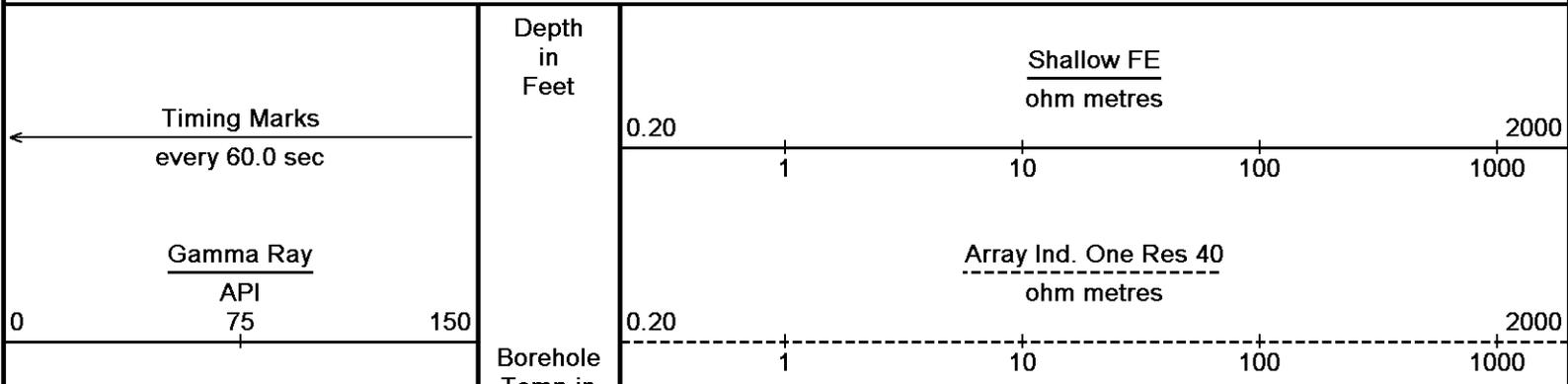


Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 29-DEC-2011 10:38
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 System Versions: Logged with 11.03.4044 Plotted with 12.01.3513

↑ 2 INCH MAIN ↑

↓ 5 INCH MAIN ↓

Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 29-DEC-2011 10:38
 Filename: C:\Users\Joe\AppData\Local\Temp\Weatherford PreView\0\O'Brien Eagle # 1-10_004.dta Recorded on 13-OCT-2011 15:17
 System Versions: Logged with 11.03.4044 Plotted with 12.01.3513



Spontaneous Potential

millivolts

—→|20|←—+

Temp in deg F

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

1500

92°

1550

93°

1600

94°

1650

← Spontaneous Potential

← Gamma Ray

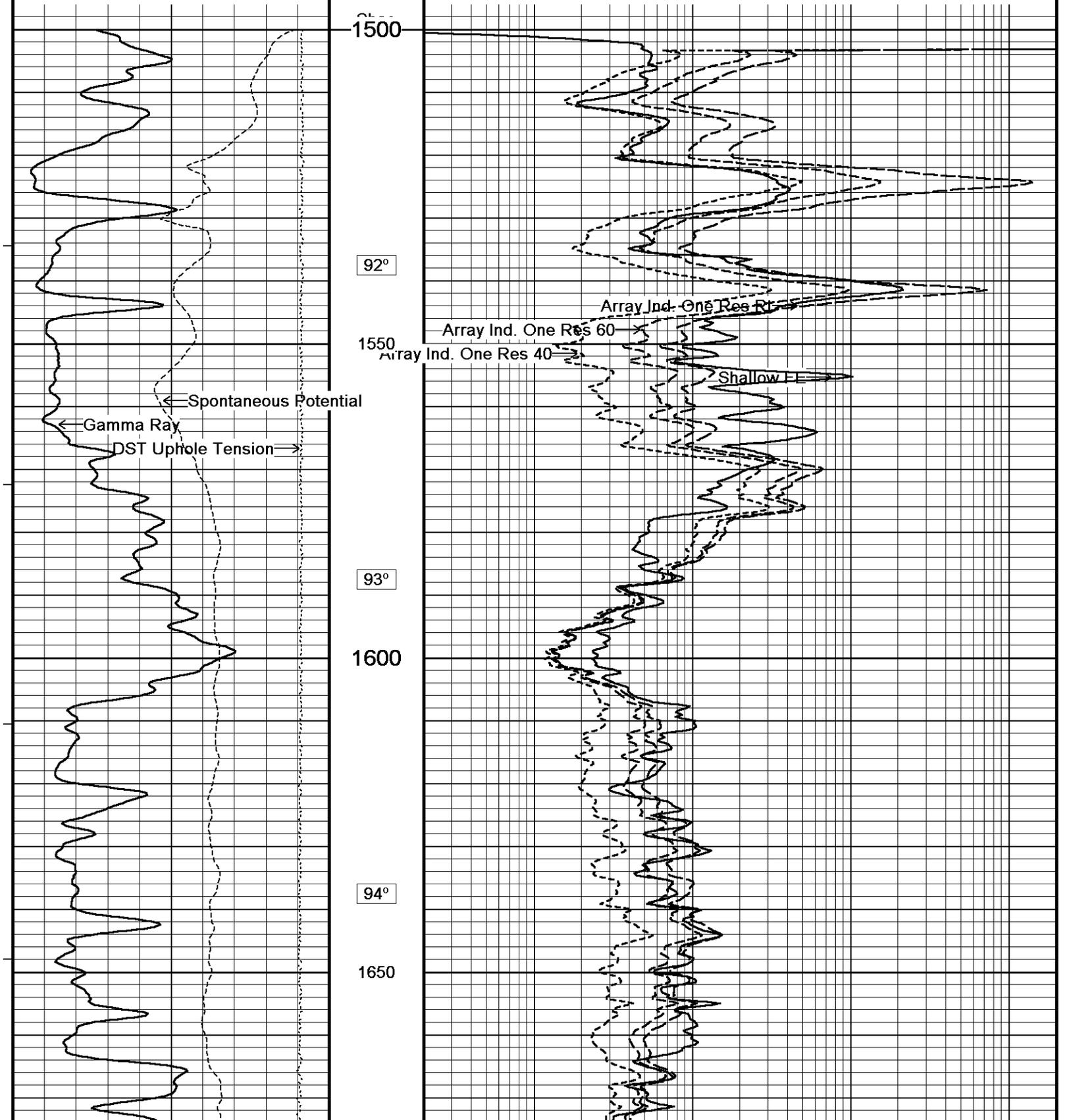
DST Uphole Tension →

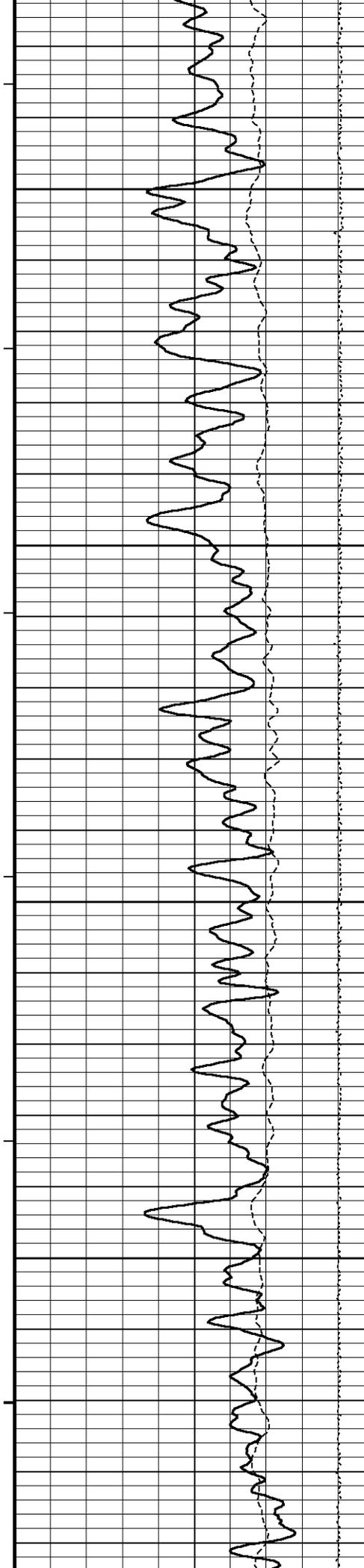
Array Ind. One Res 60

Array Ind. One Res 40

Array Ind. One Res Rt

Shallow FI





94°

1700

94°

1750

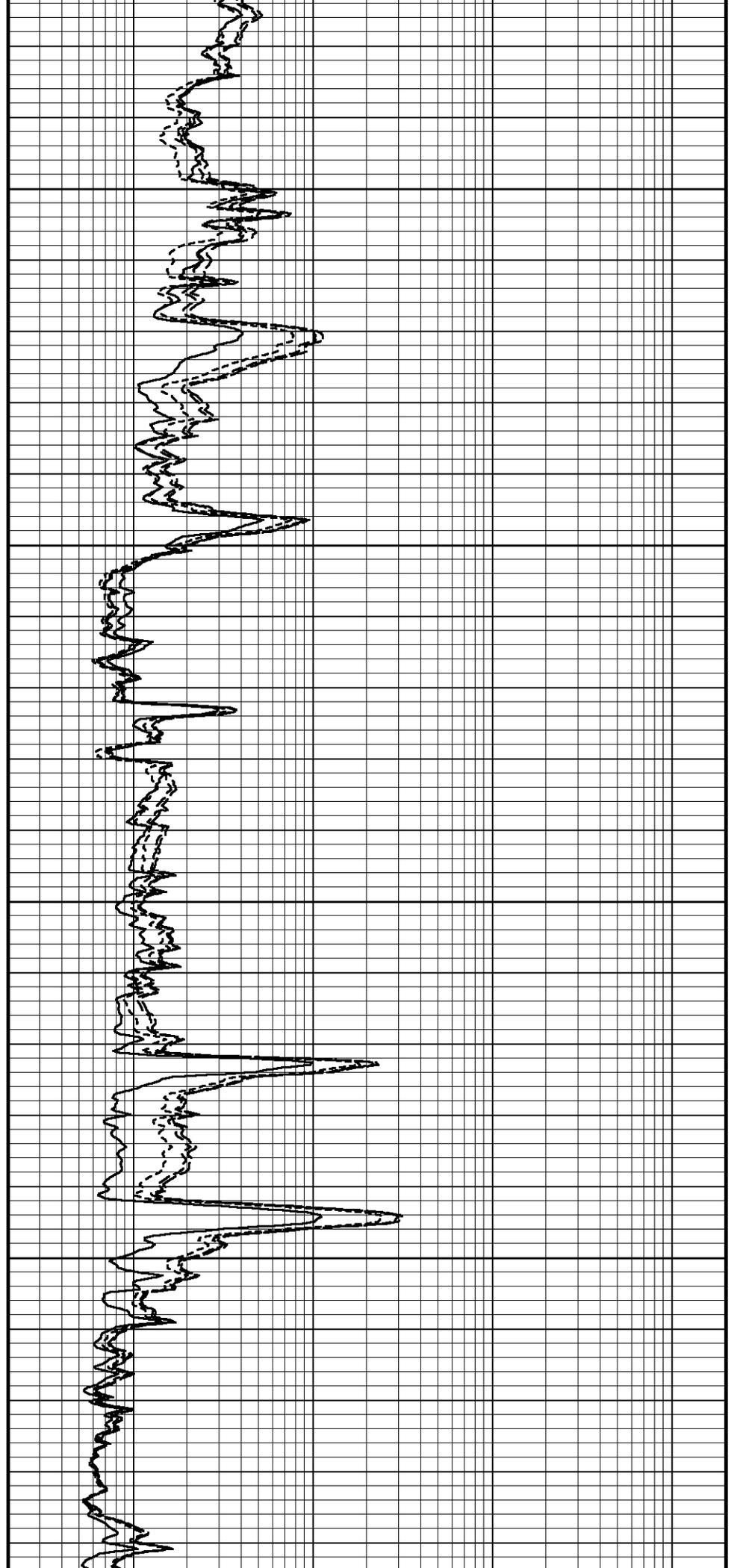
94°

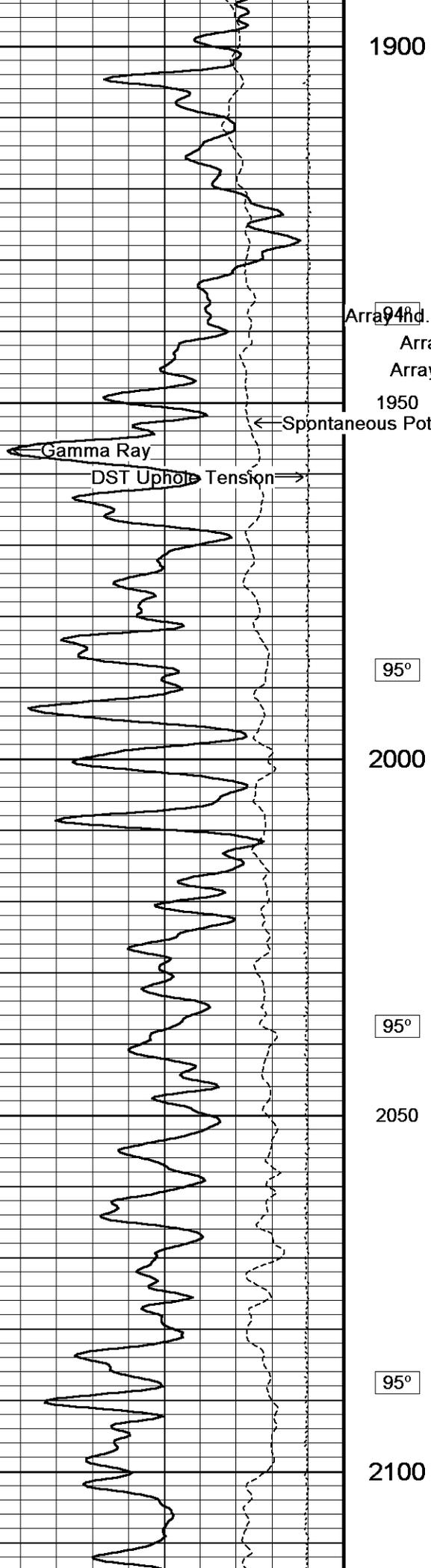
1800

94°

1850

94°





1900

Array Ind. One Res Rt

Array Ind. One Res 60

Array Ind. One Res 40

1950

Shallow FI

← Spontaneous Potential

Gamma Ray

DST Uphole →

95°

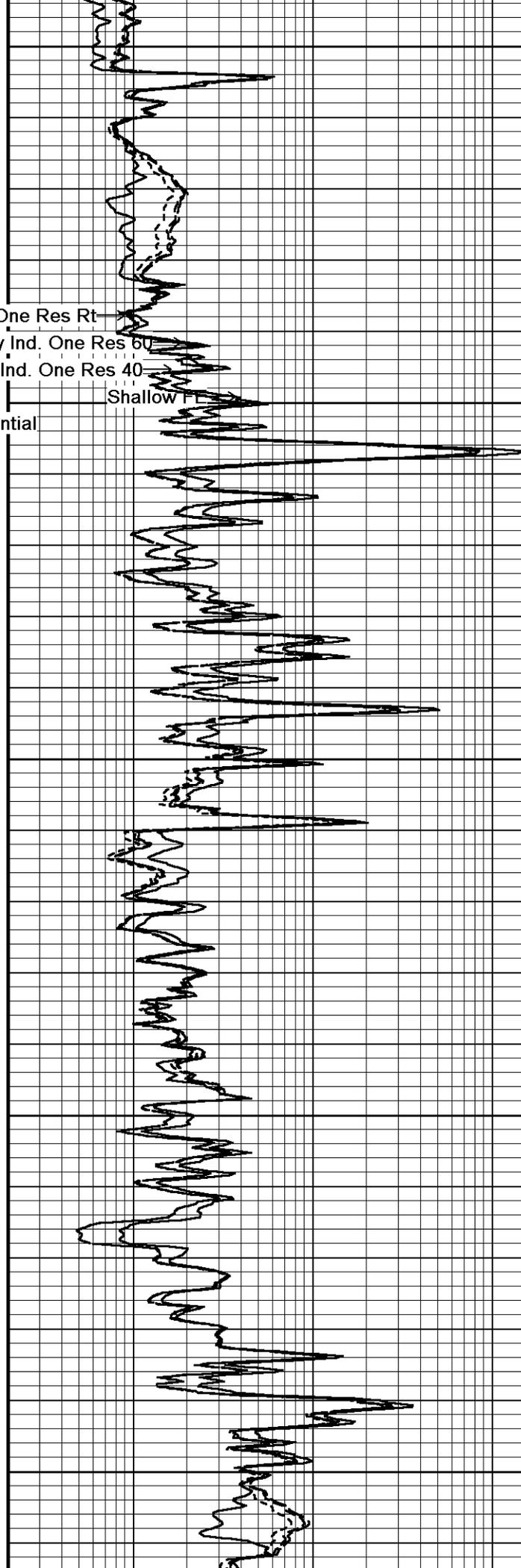
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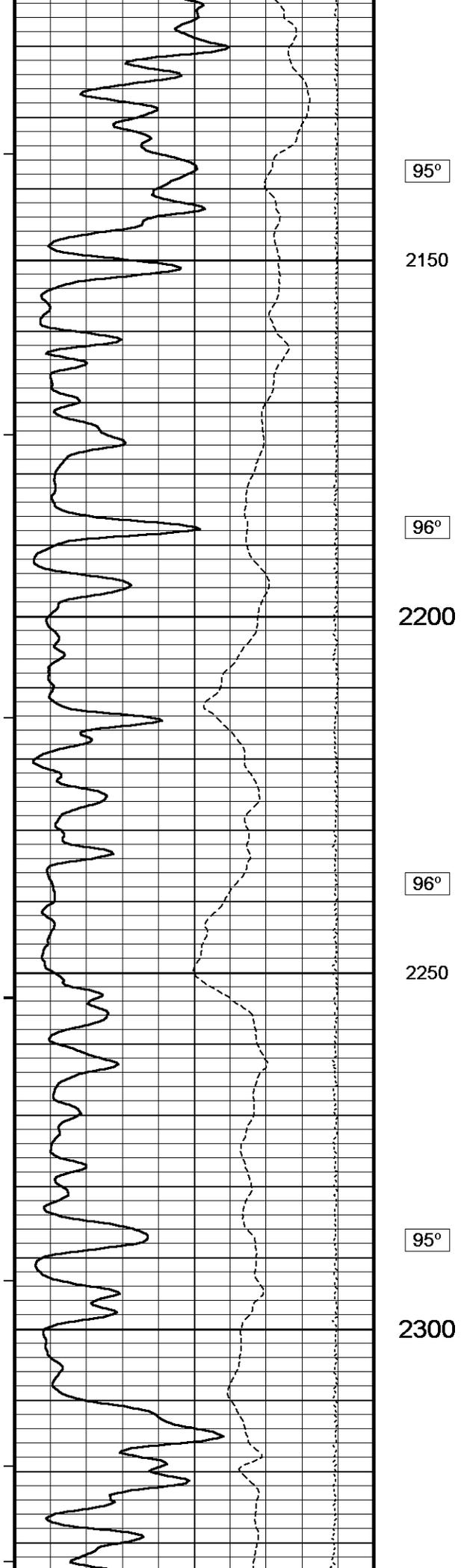
95°

2050

95°

2100





95°

2150

96°

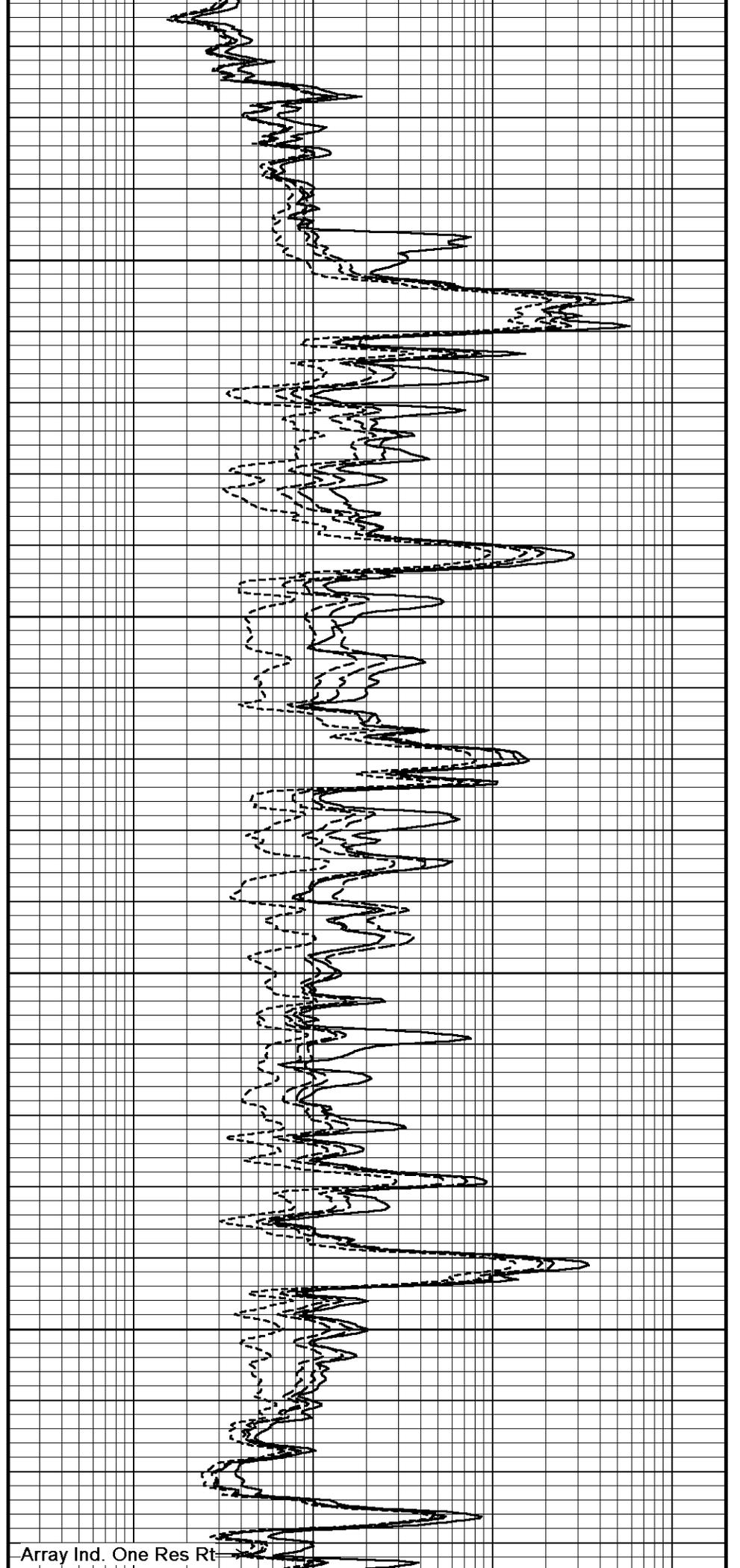
2200

96°

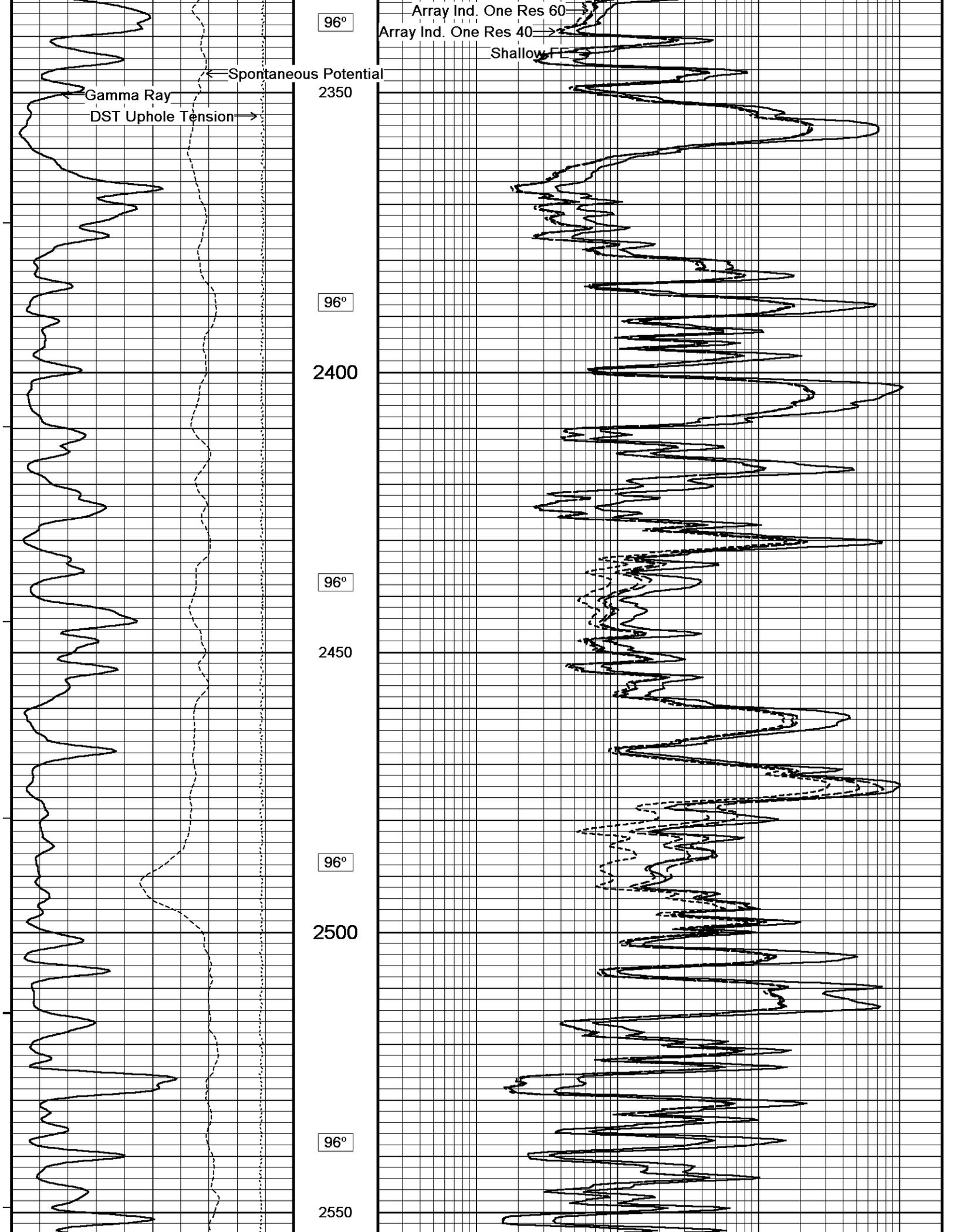
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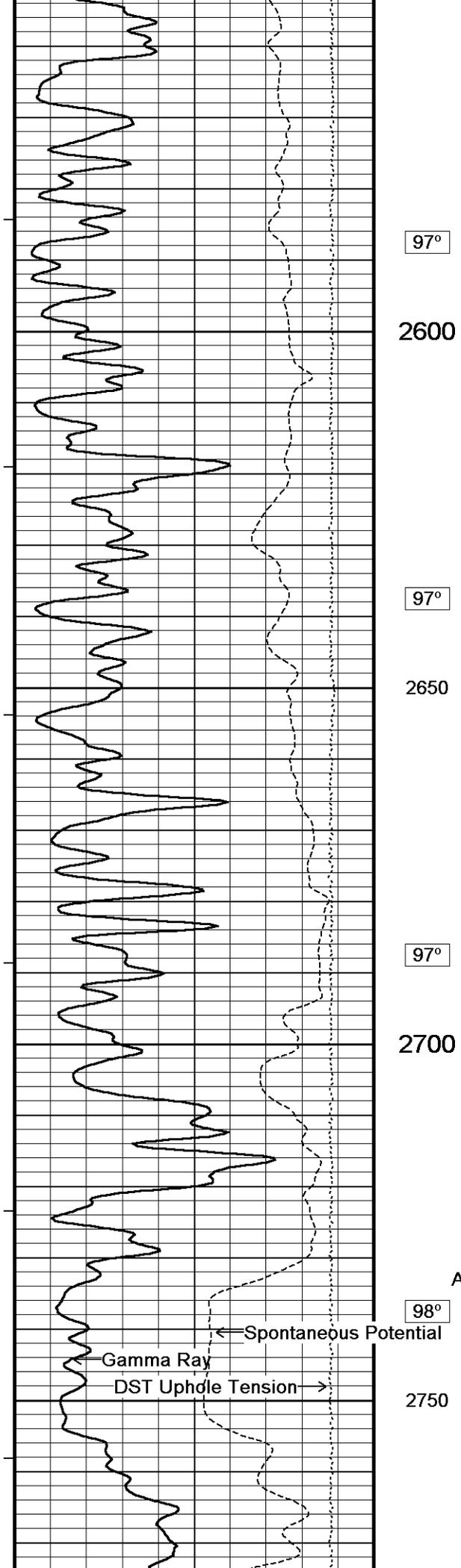
95°

2300



Array Ind. One Res Rt





97°

2600

97°

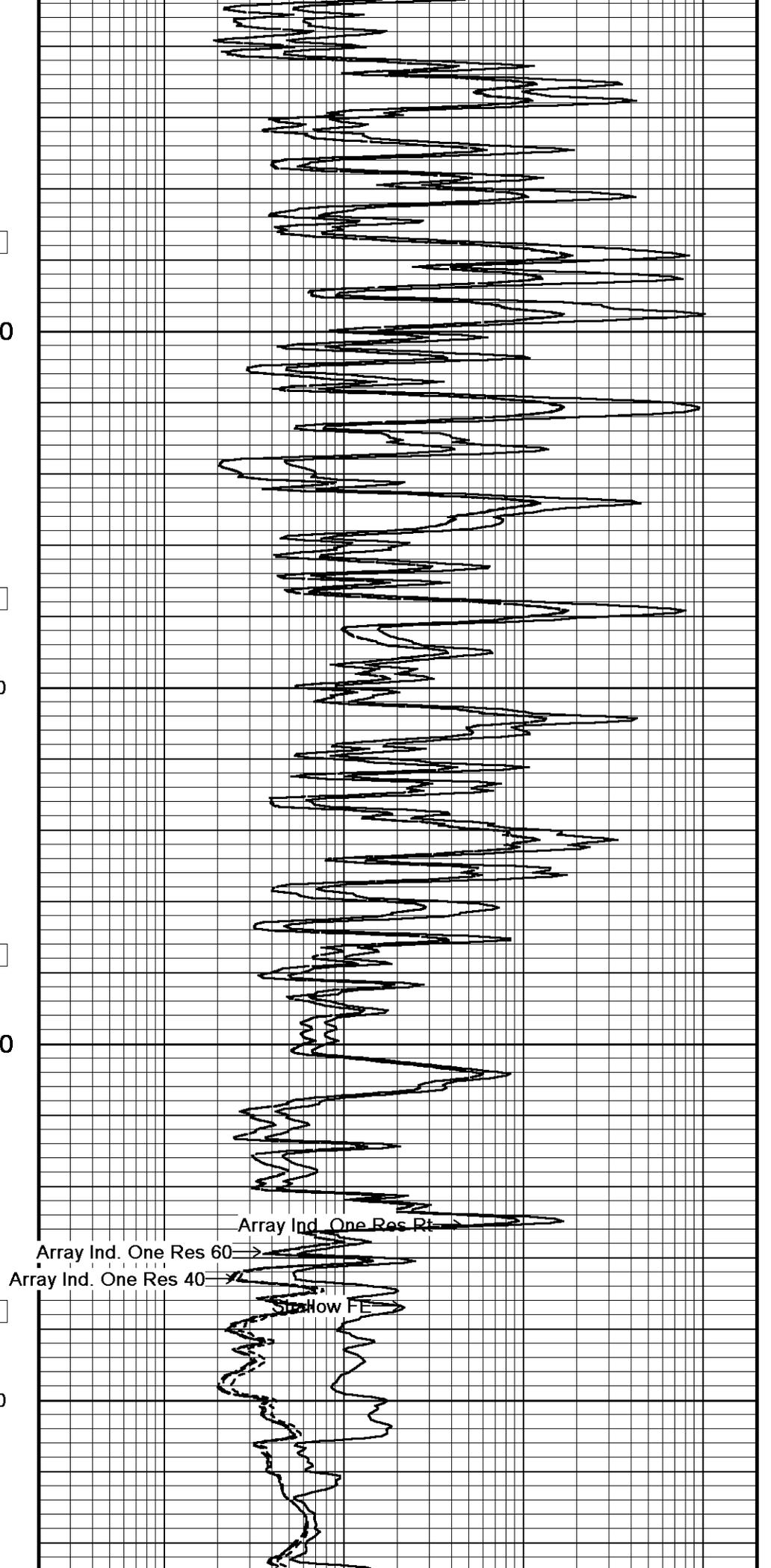
2650

97°

2700

98°

2750

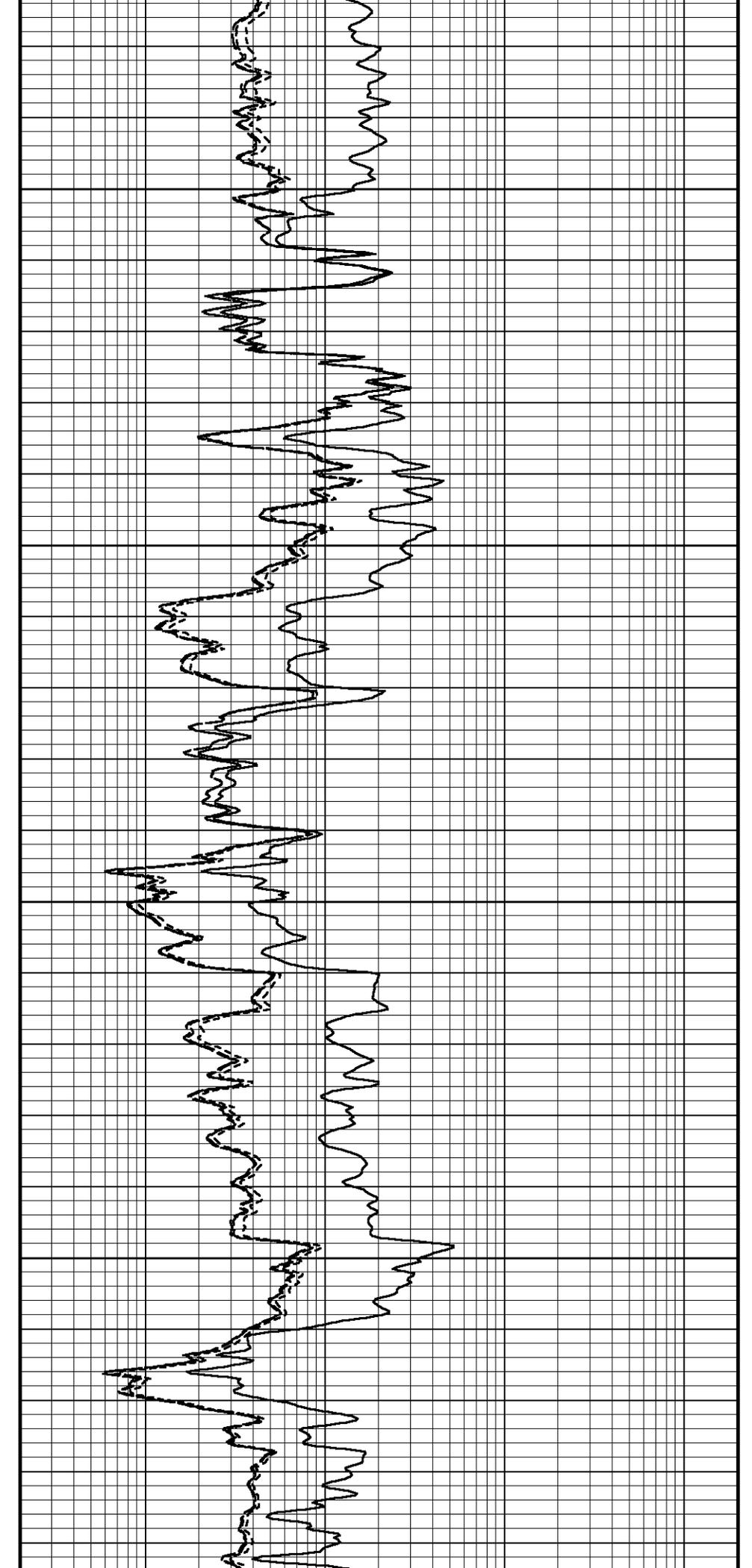
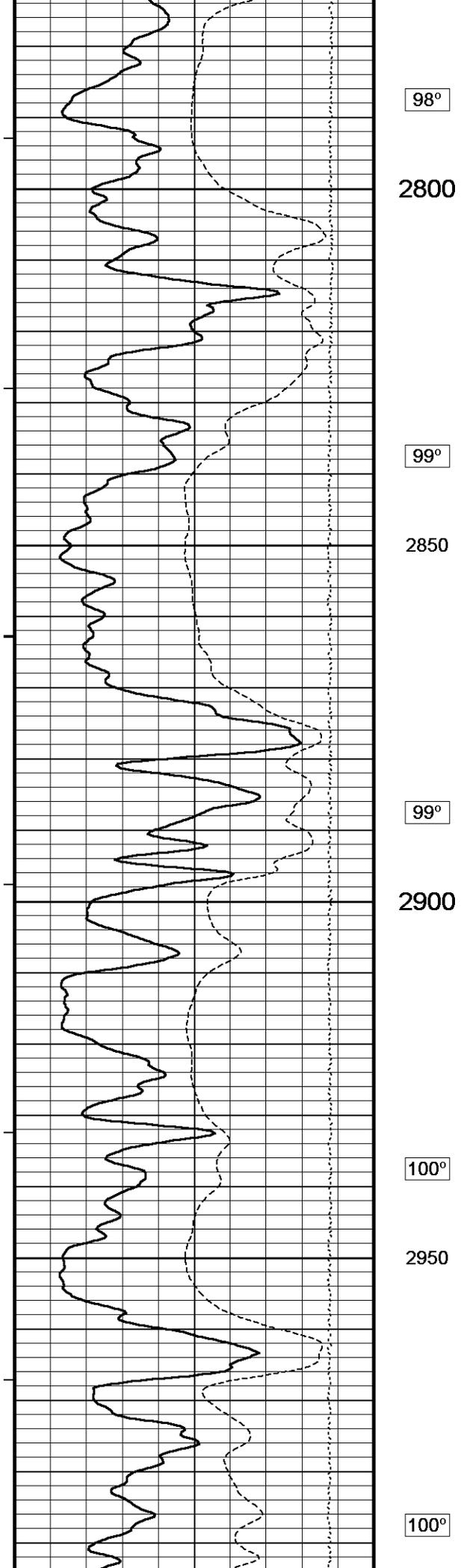


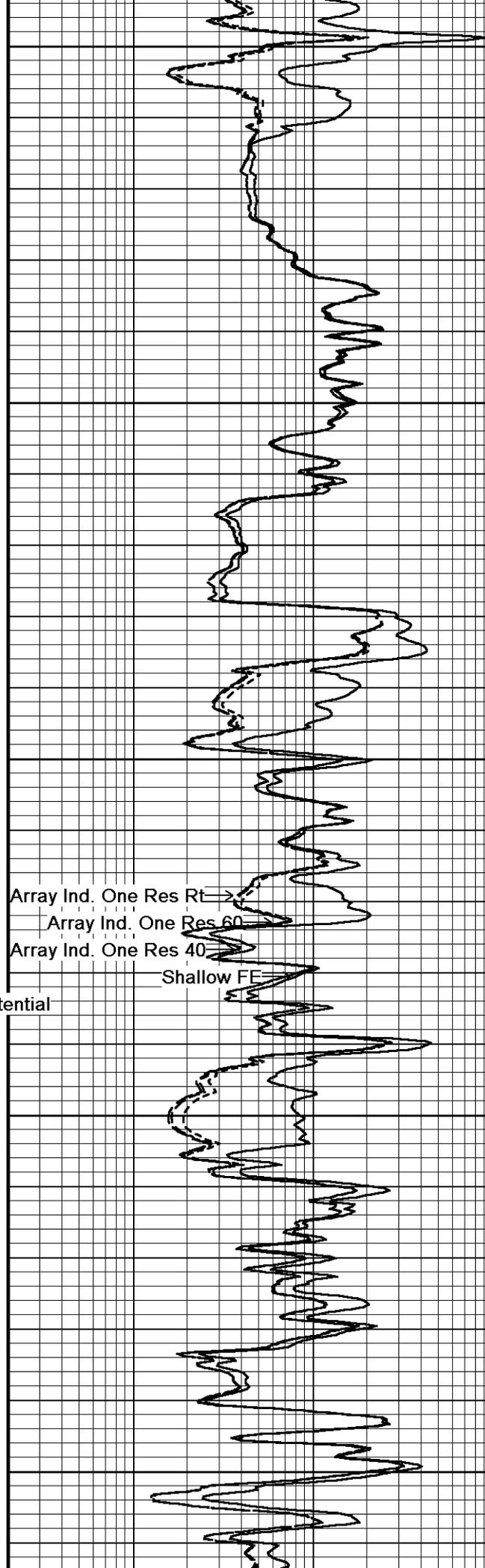
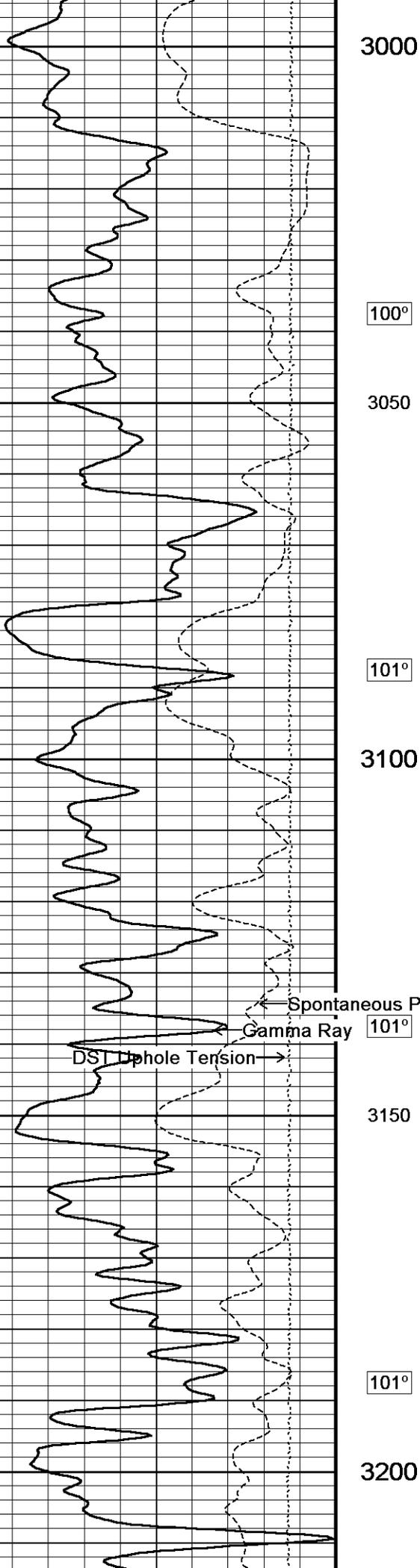
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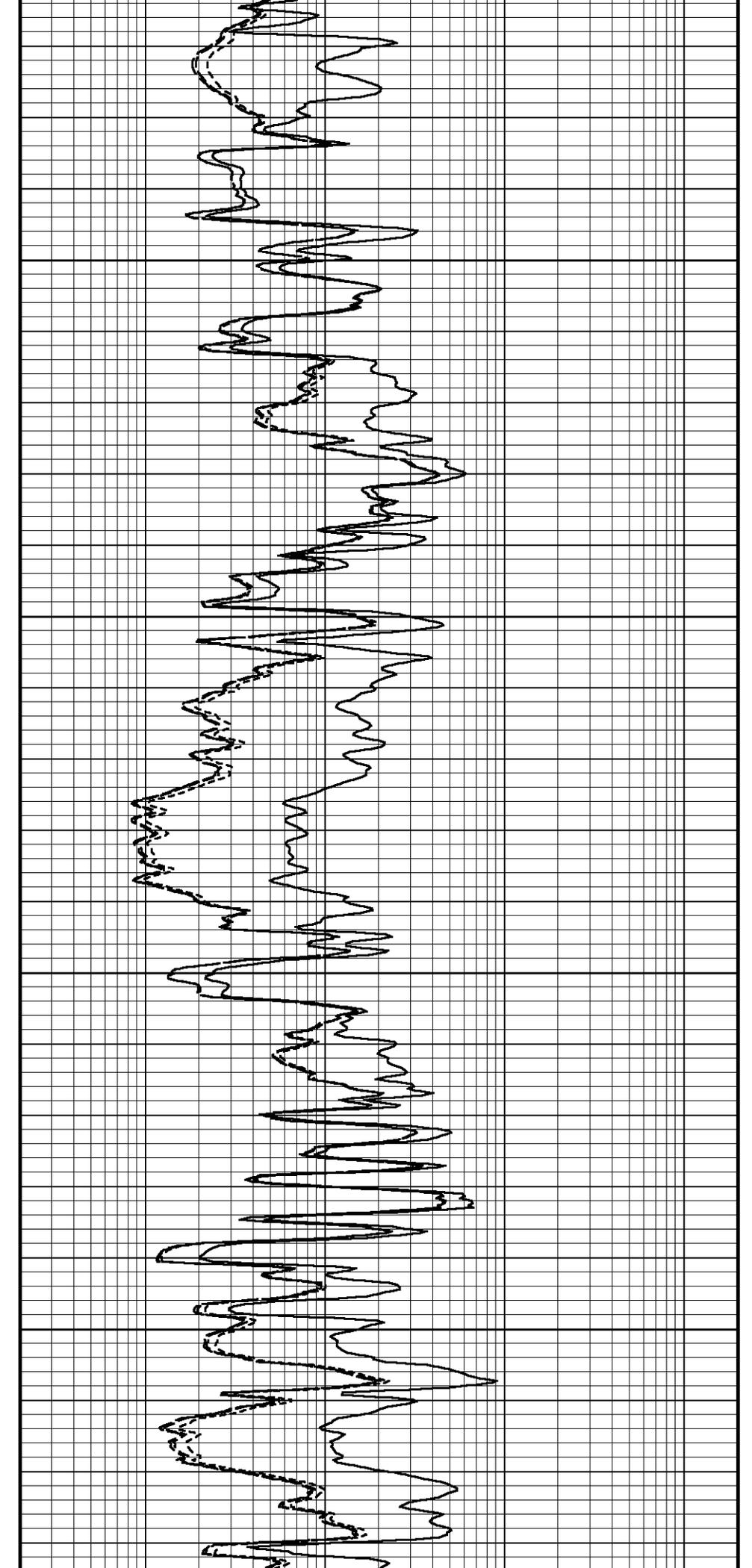
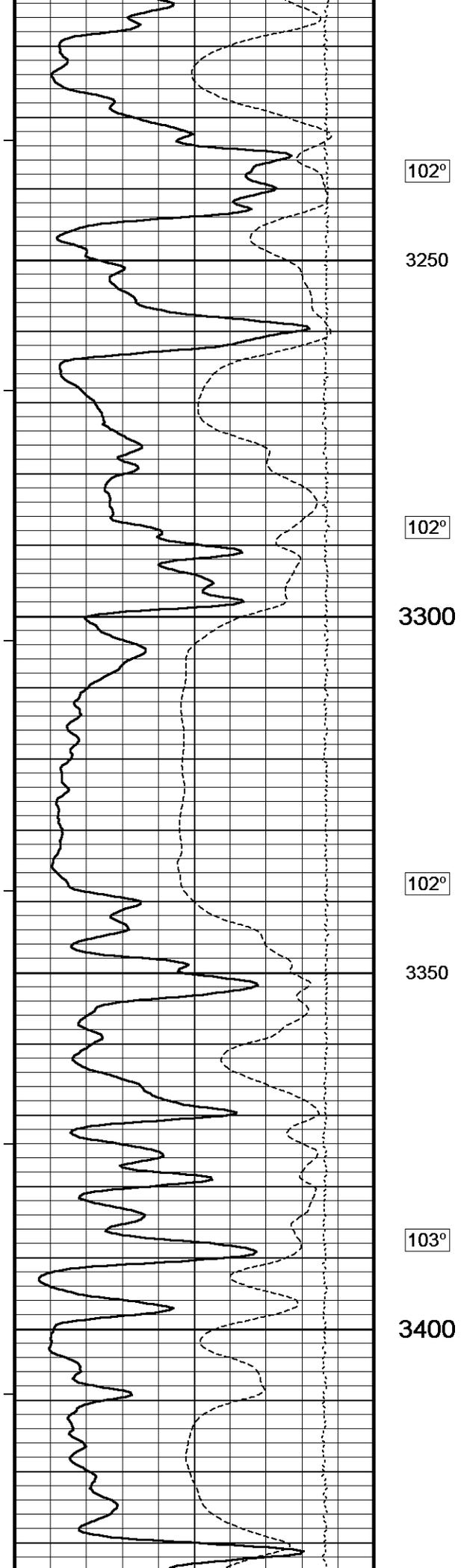
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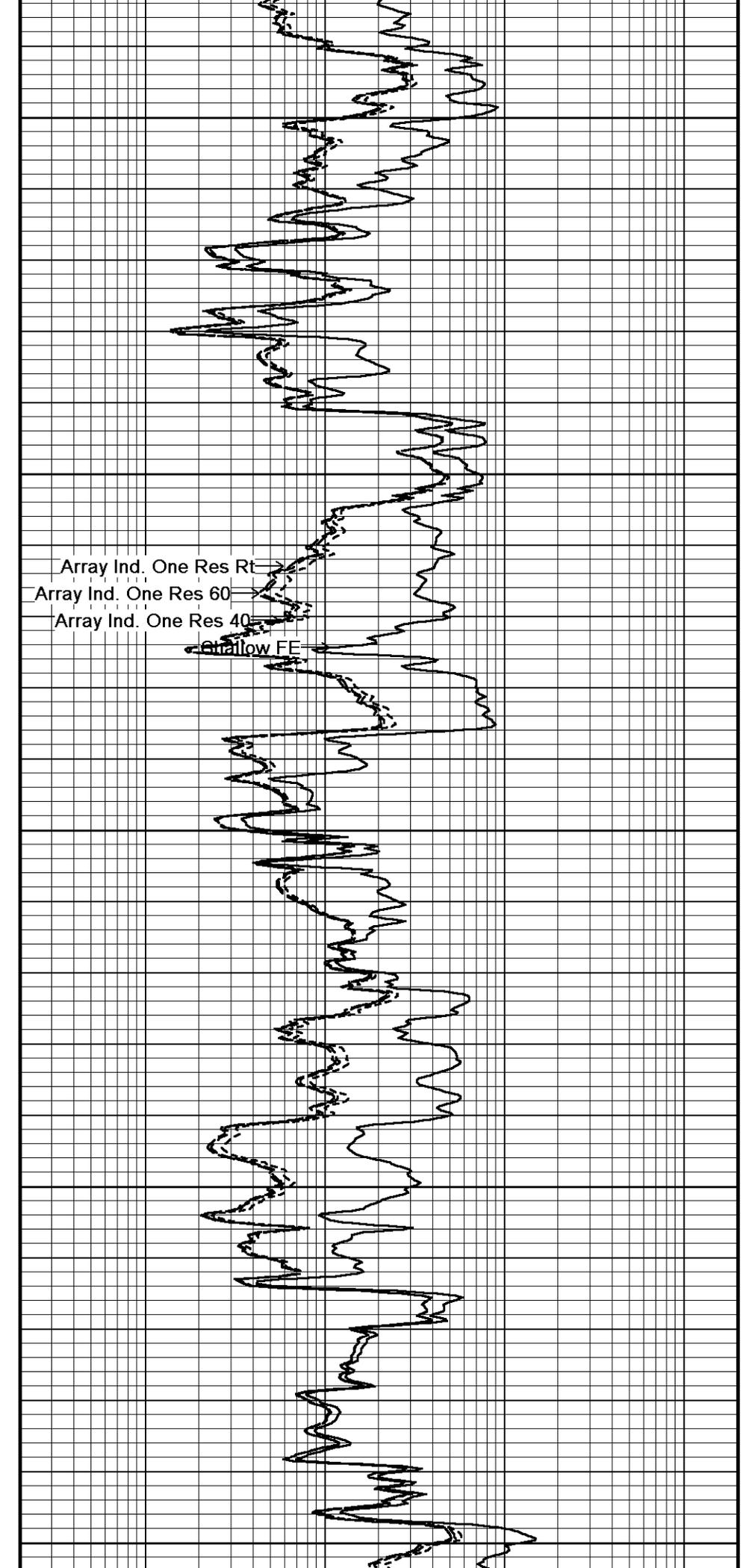
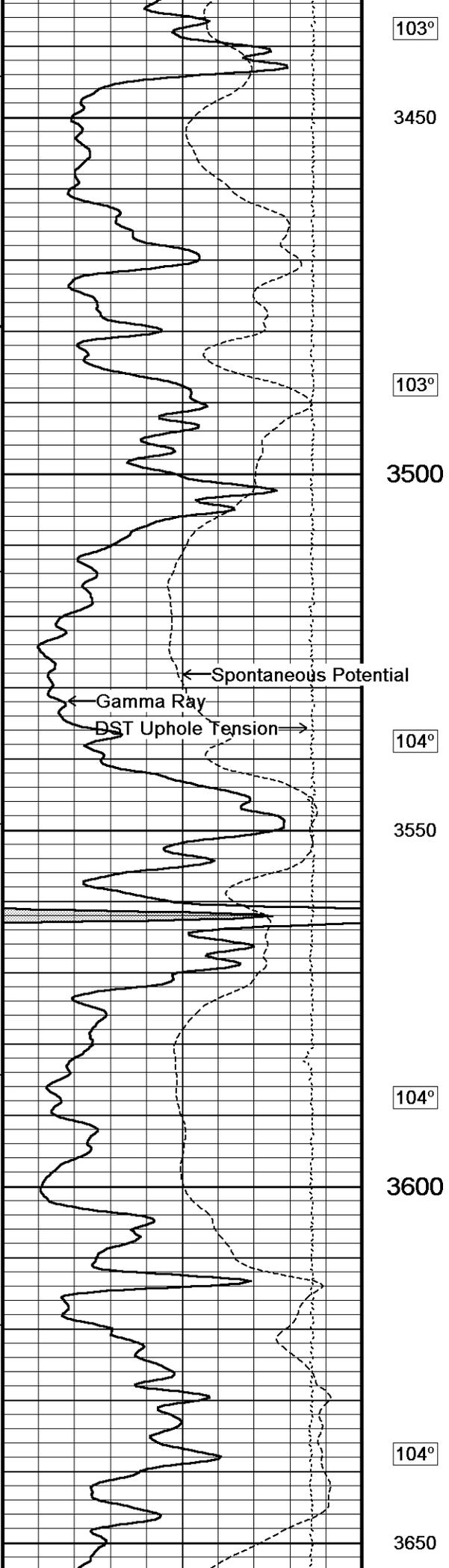
Array Ind. One Res 40

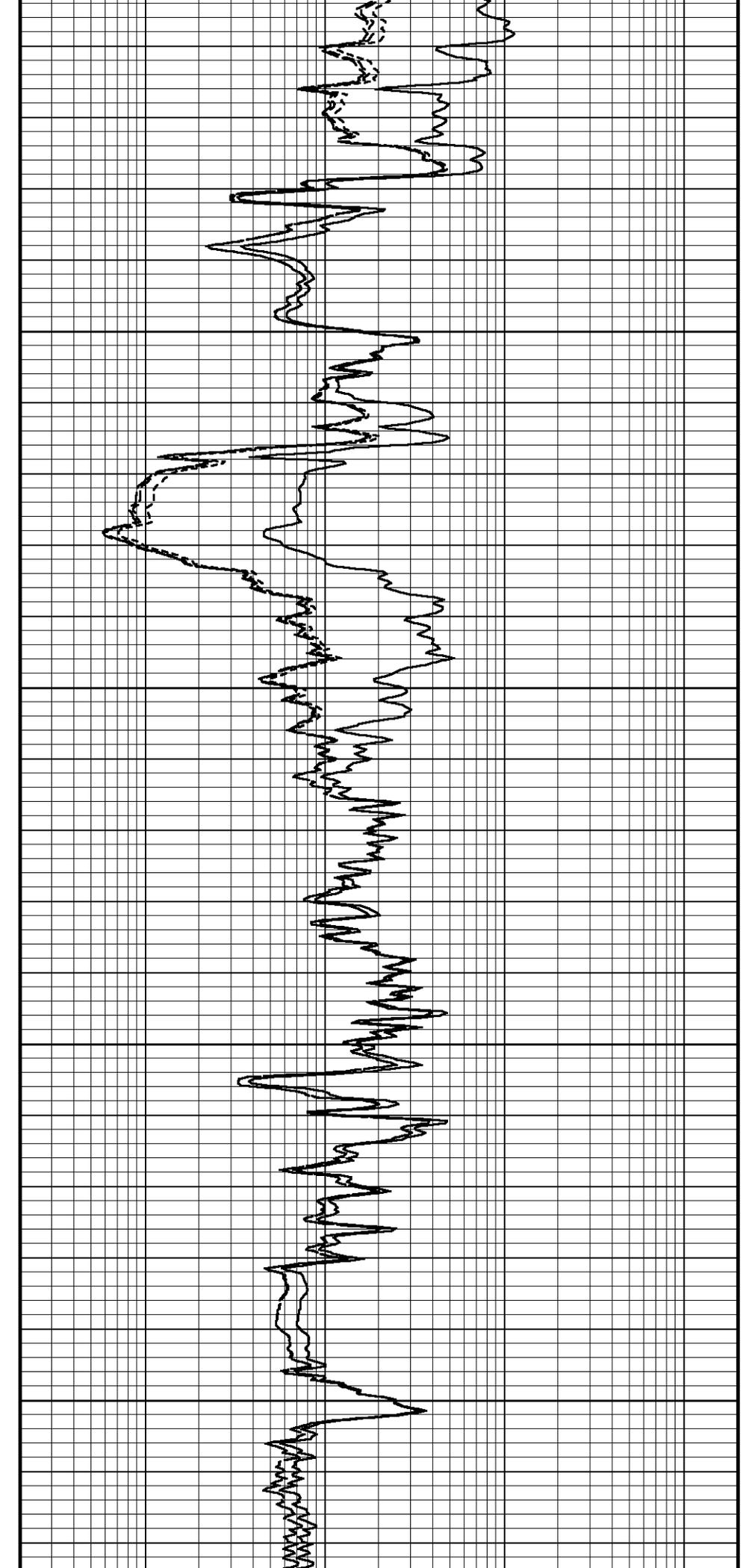
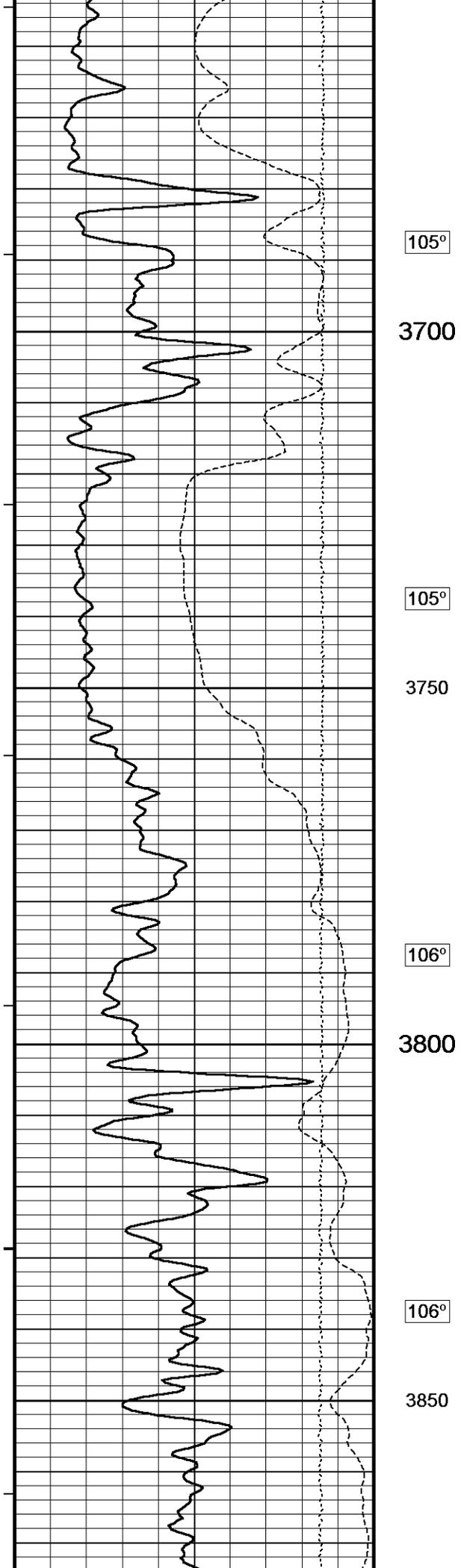
Shallow FE

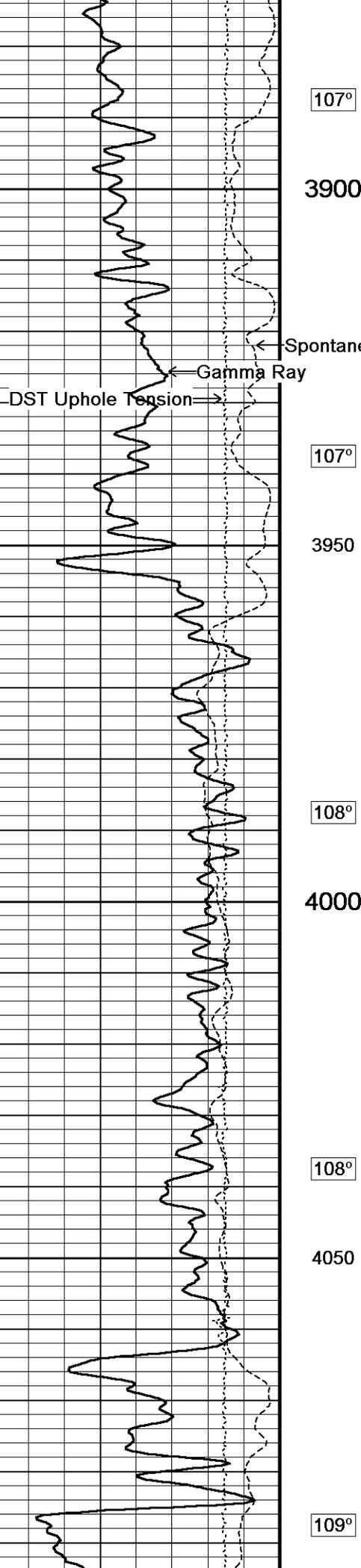












107°

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

107°

3950

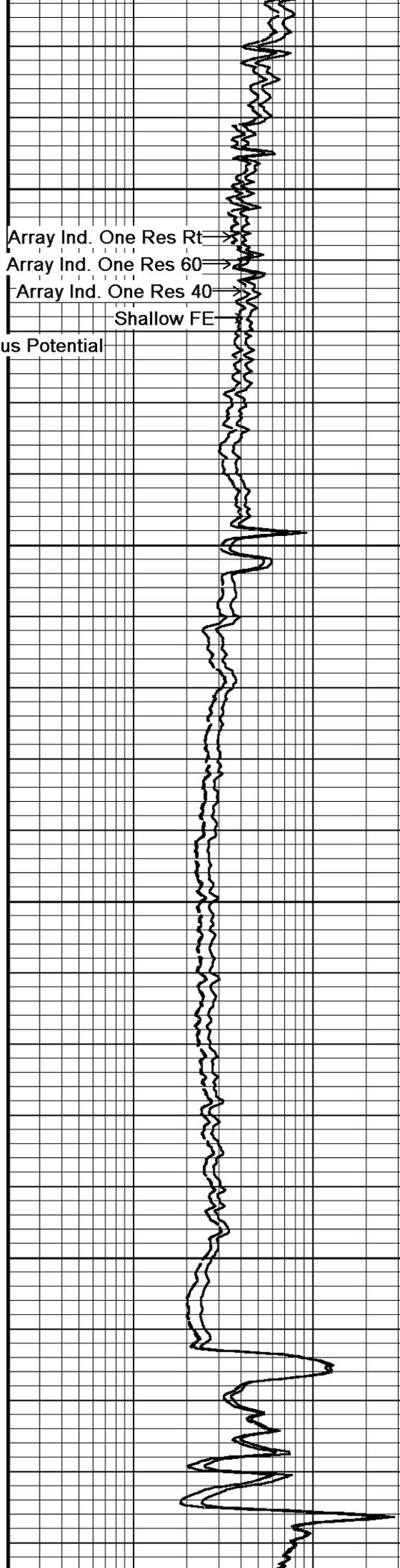
108°

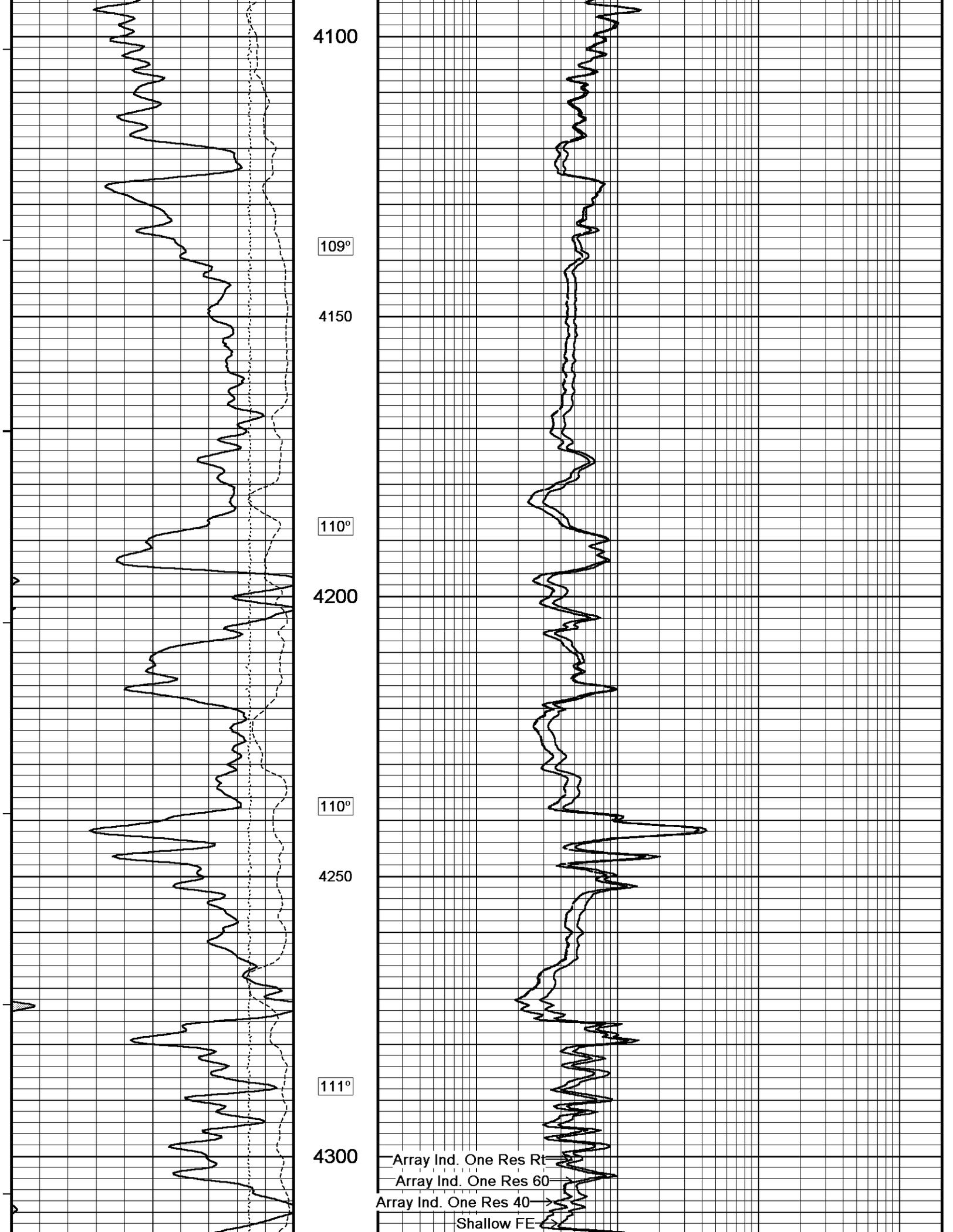
4000

108°

4050

109°





4100

109°

4150

110°

4200

110°

4250

111°

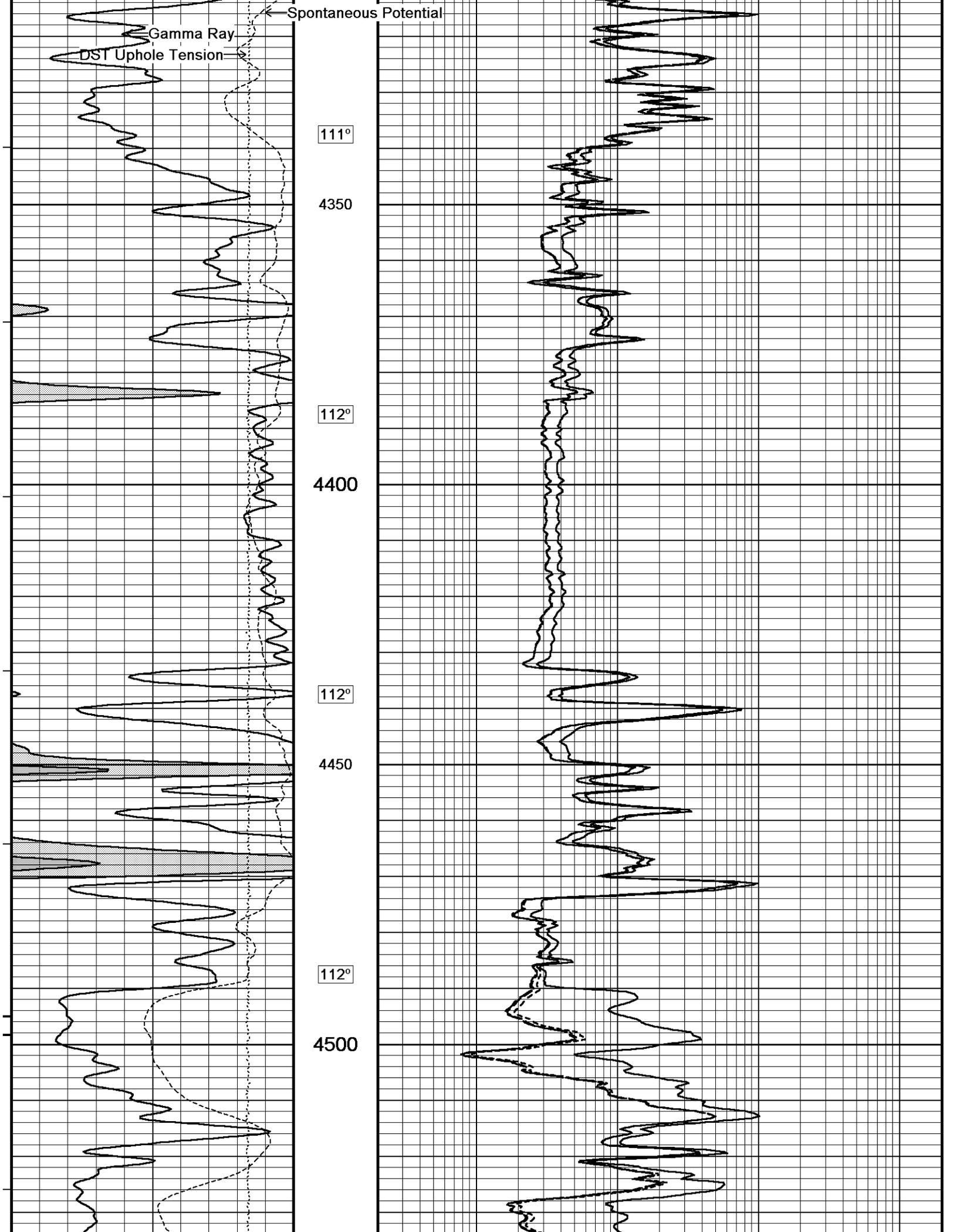
4300

Array Ind. One Res Rt

Array Ind. One Res 60

Array Ind. One Res 40

Shallow FE



113°

4550

113°

4600

114°

4650

114°

4700

114°

4750

← Spontaneous Potential

← Gamma Ray

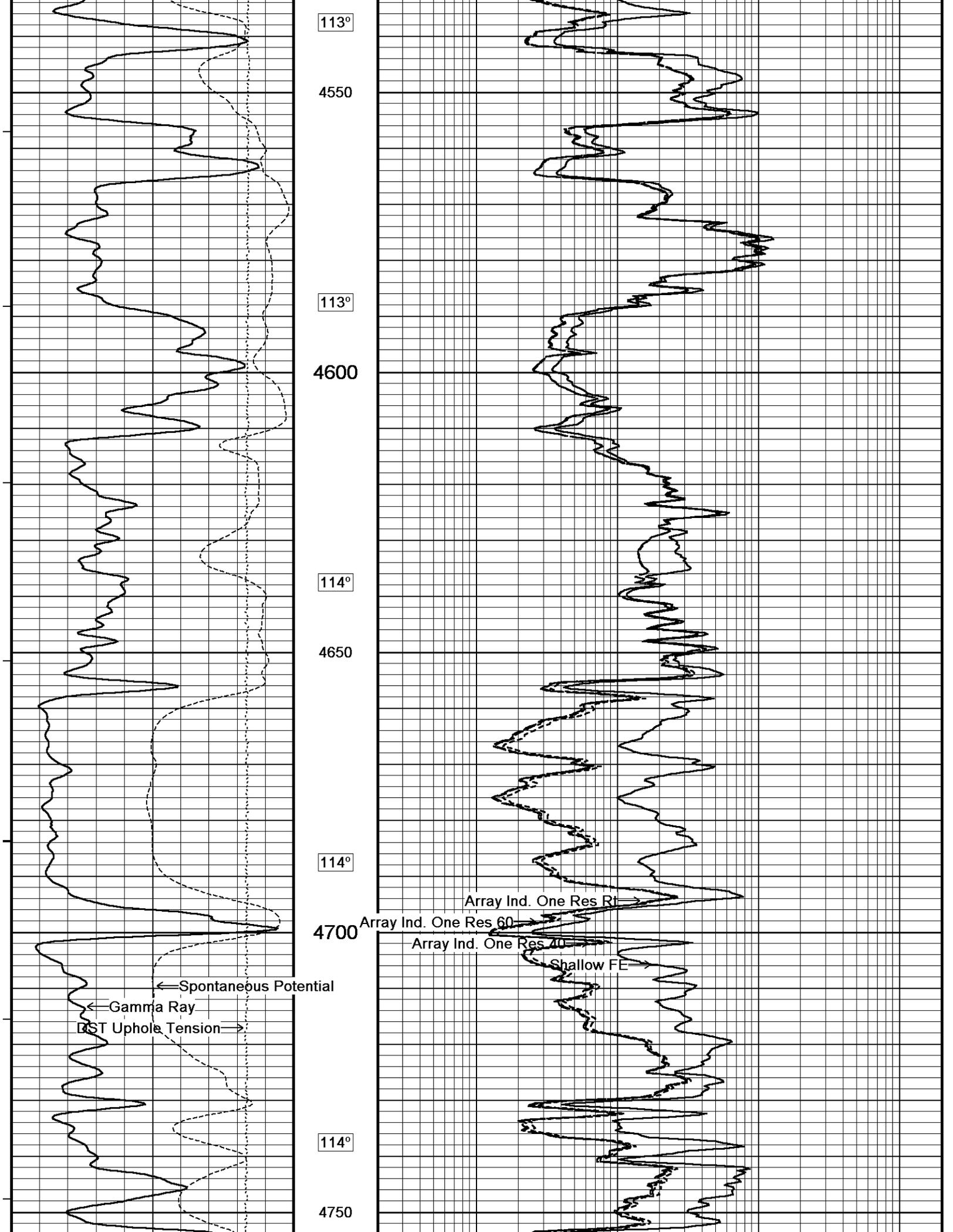
→ DST Uphole Tension

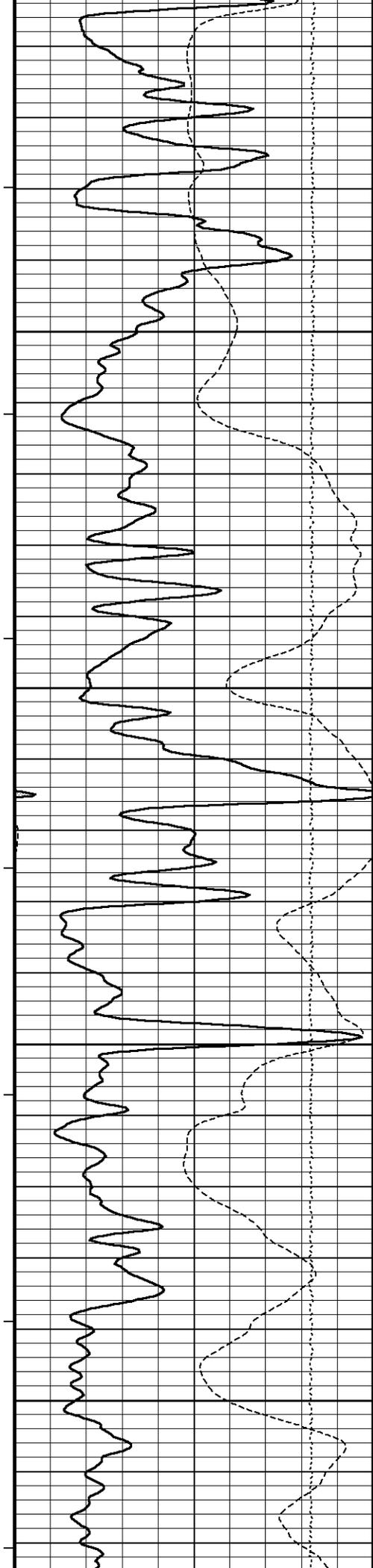
→ Array Ind. One Res Rt

→ Array Ind. One Res 60

→ Array Ind. One Res 40

→ Shallow FE





115°

4800

115°

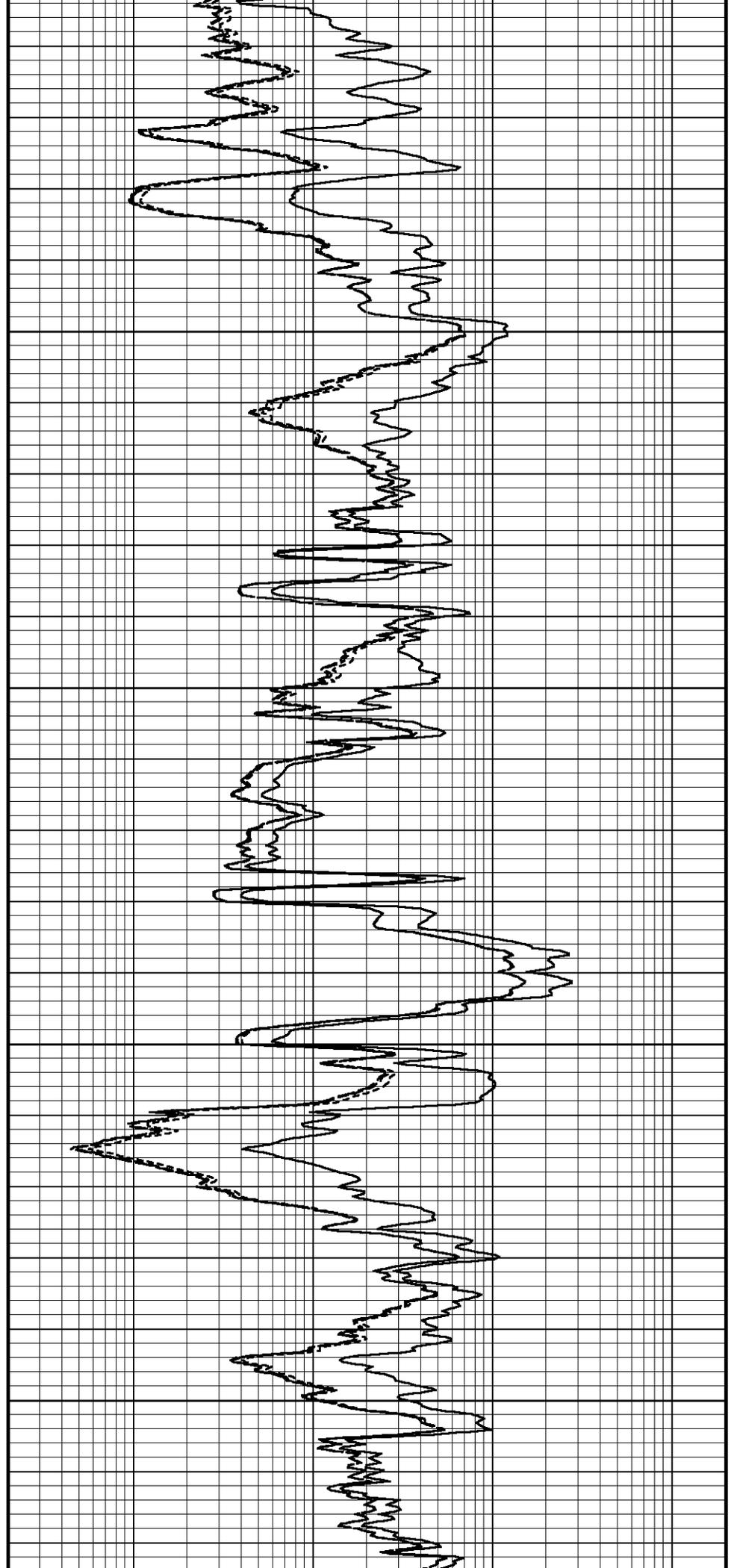
4850

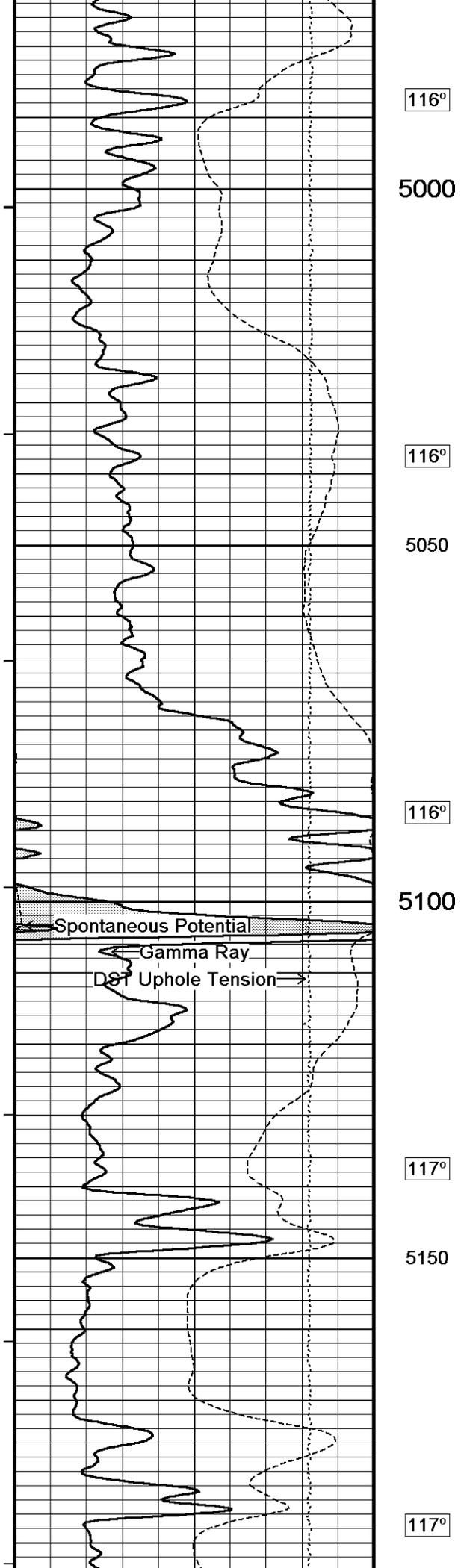
115°

4900

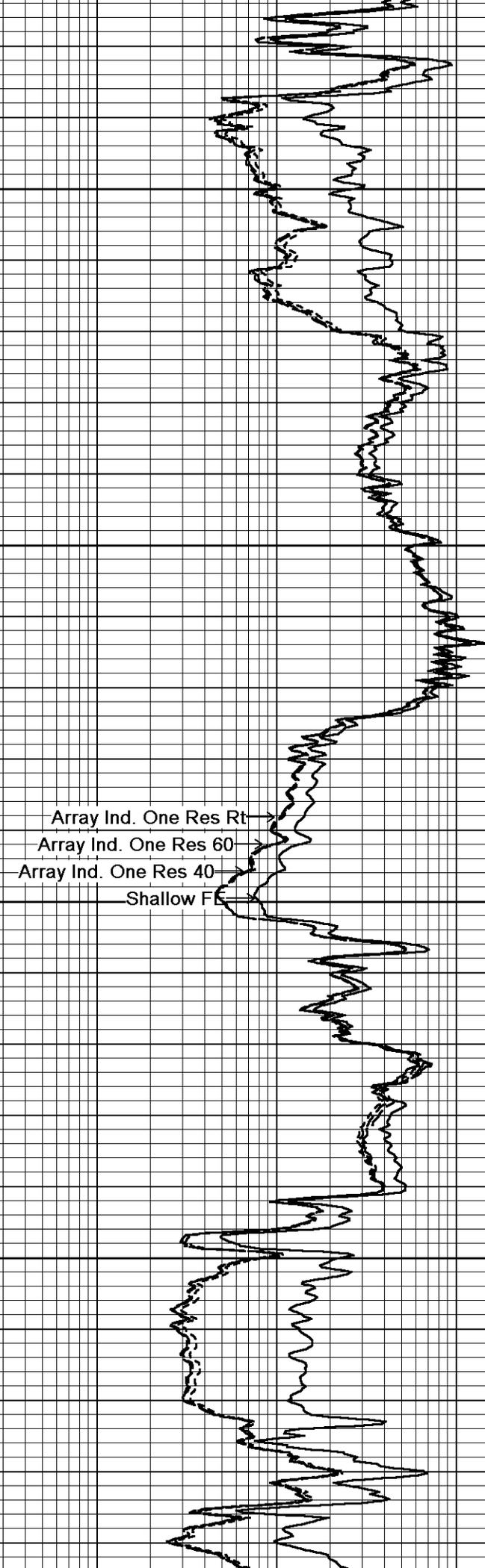
115°

4950

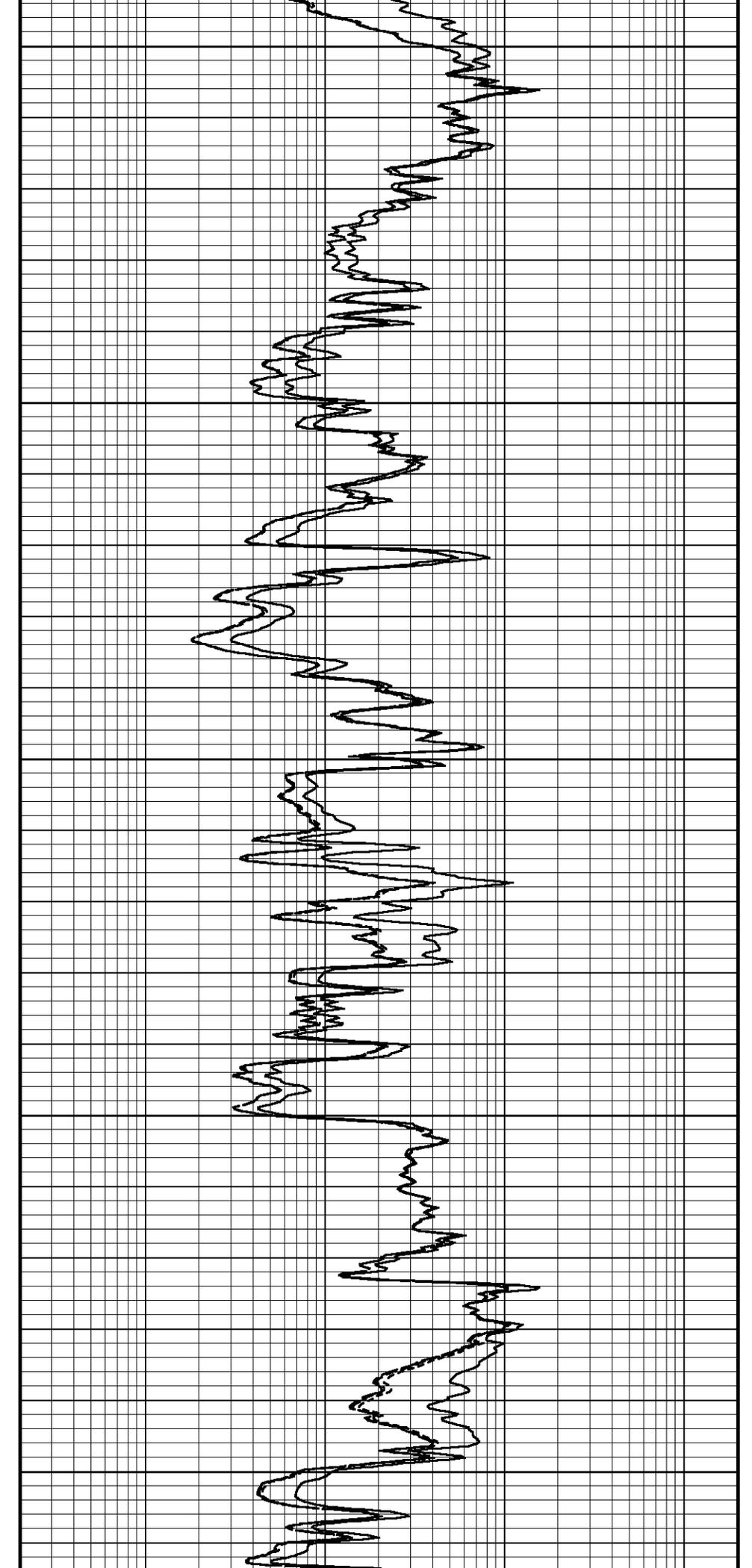
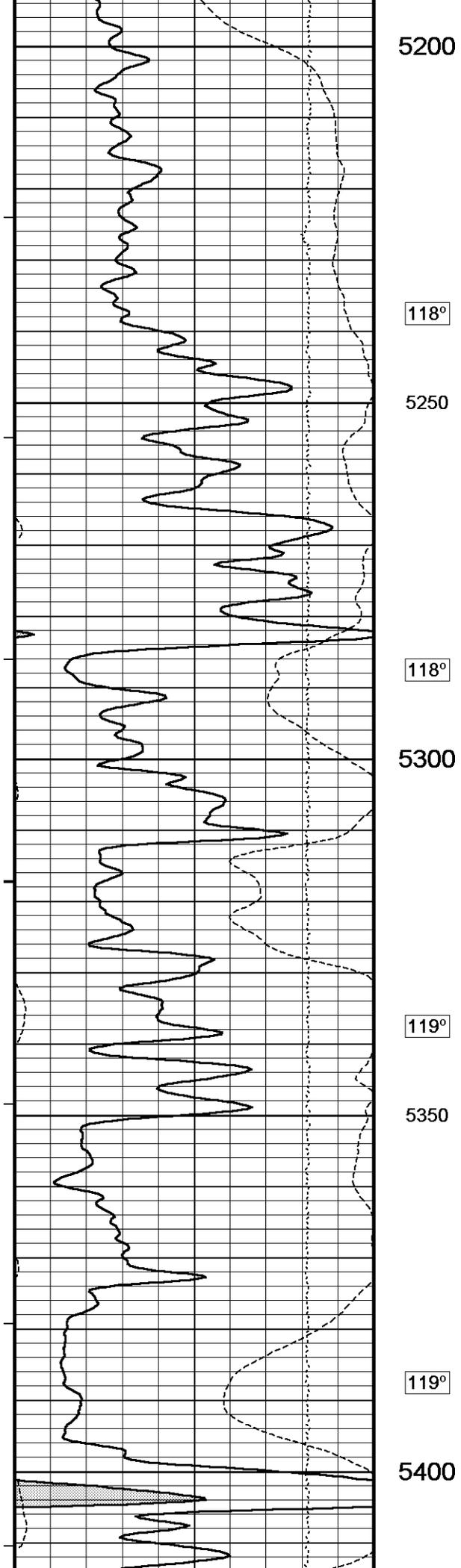


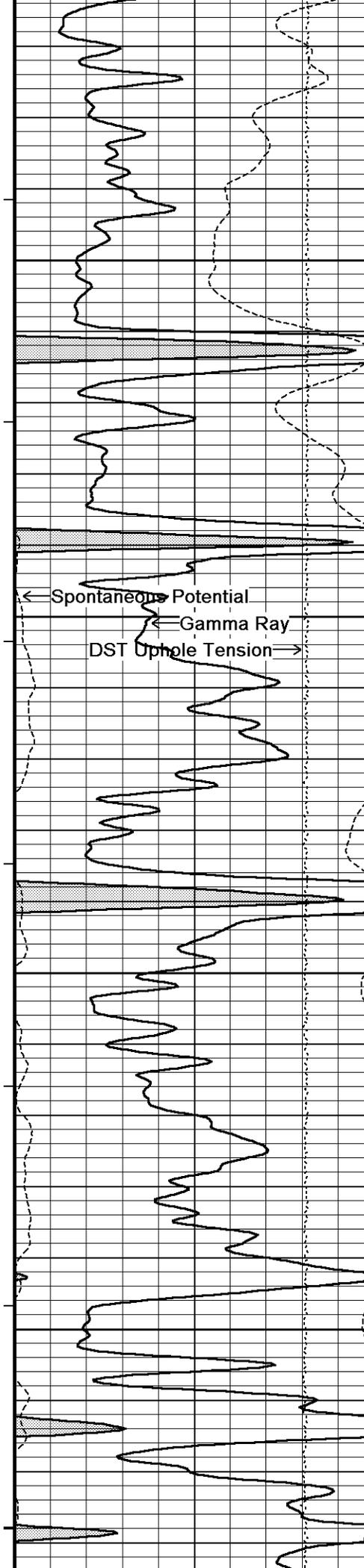


116°
5000
116°
5050
116°
5100
117°
5150
117°



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





119°

5450

120°

5500

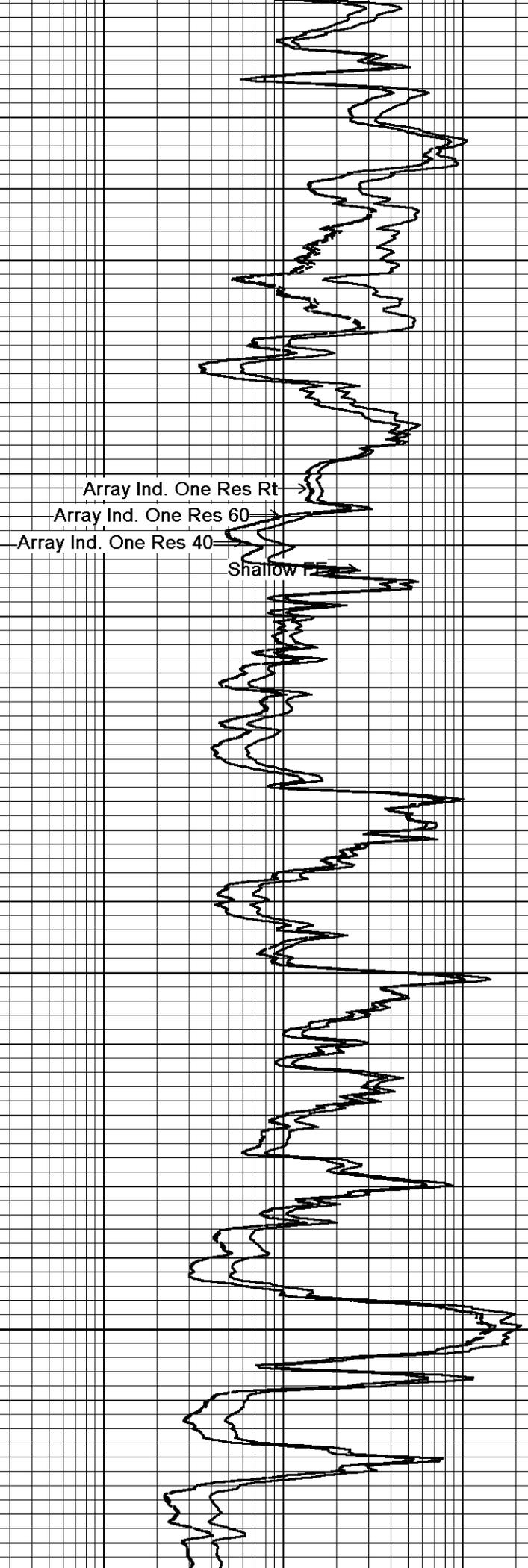
120°

5550

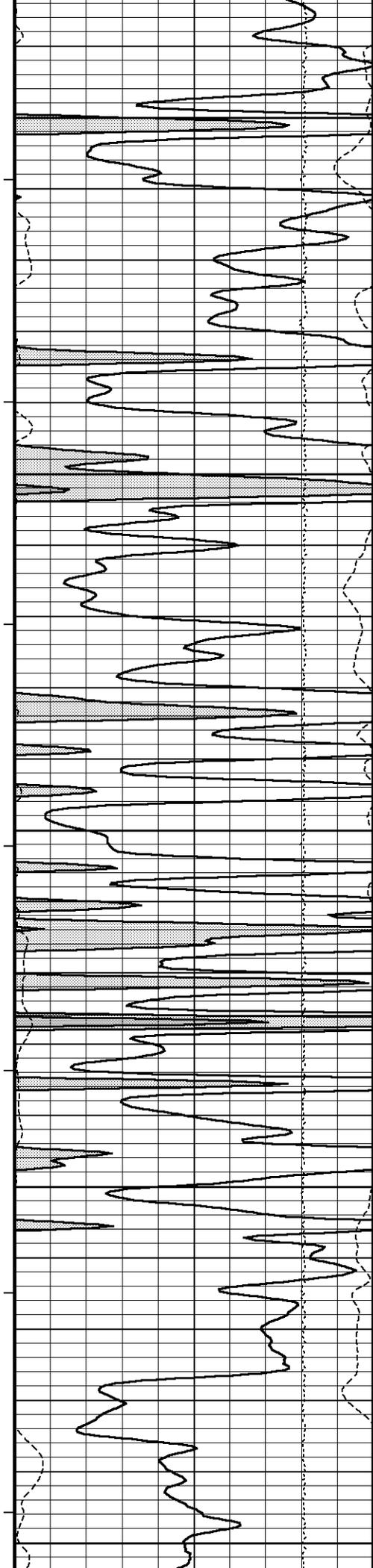
121°

5600

← Spontaneous Potential
← Gamma Ray
DST Uphole Tension →



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



121°

5650

121°

5700

122°

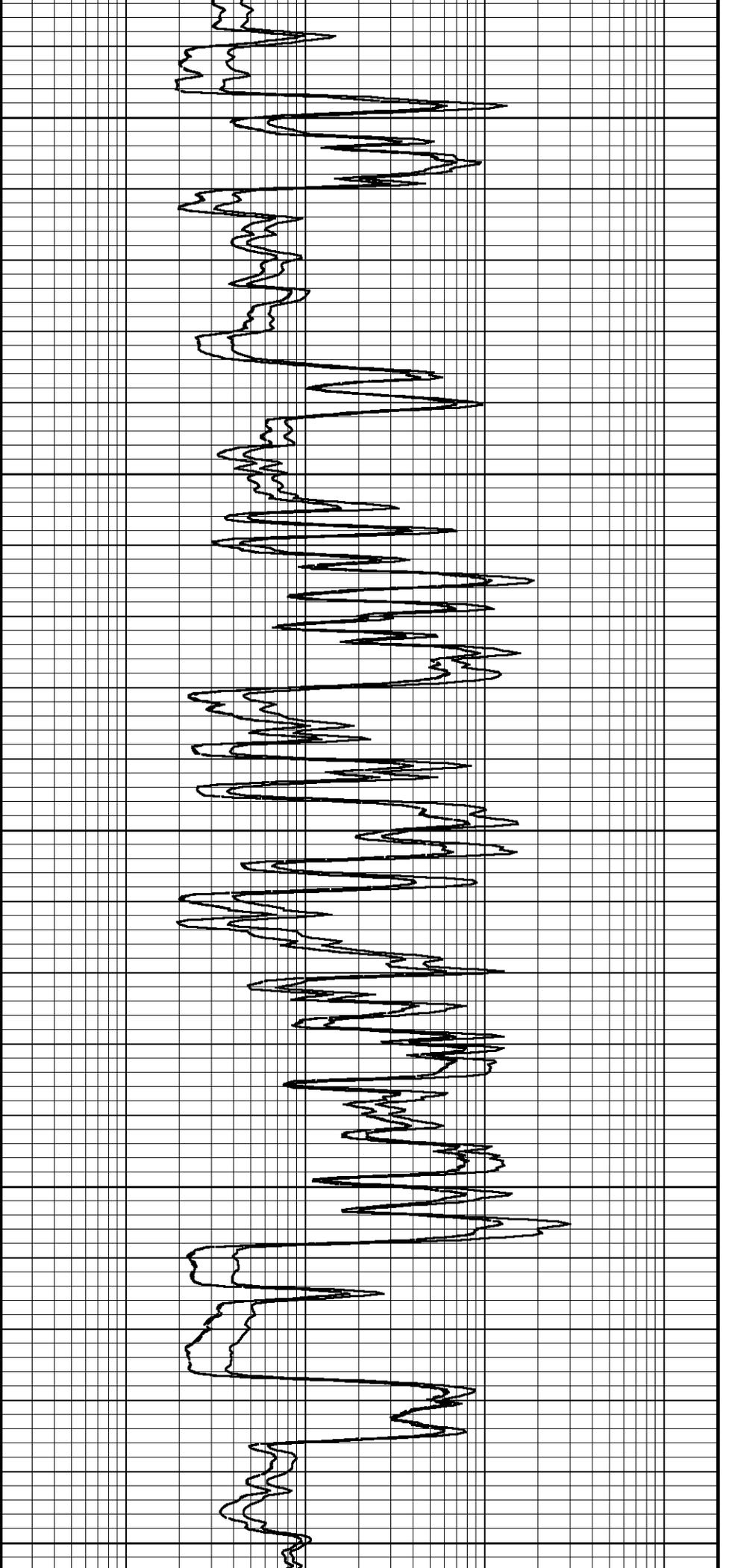
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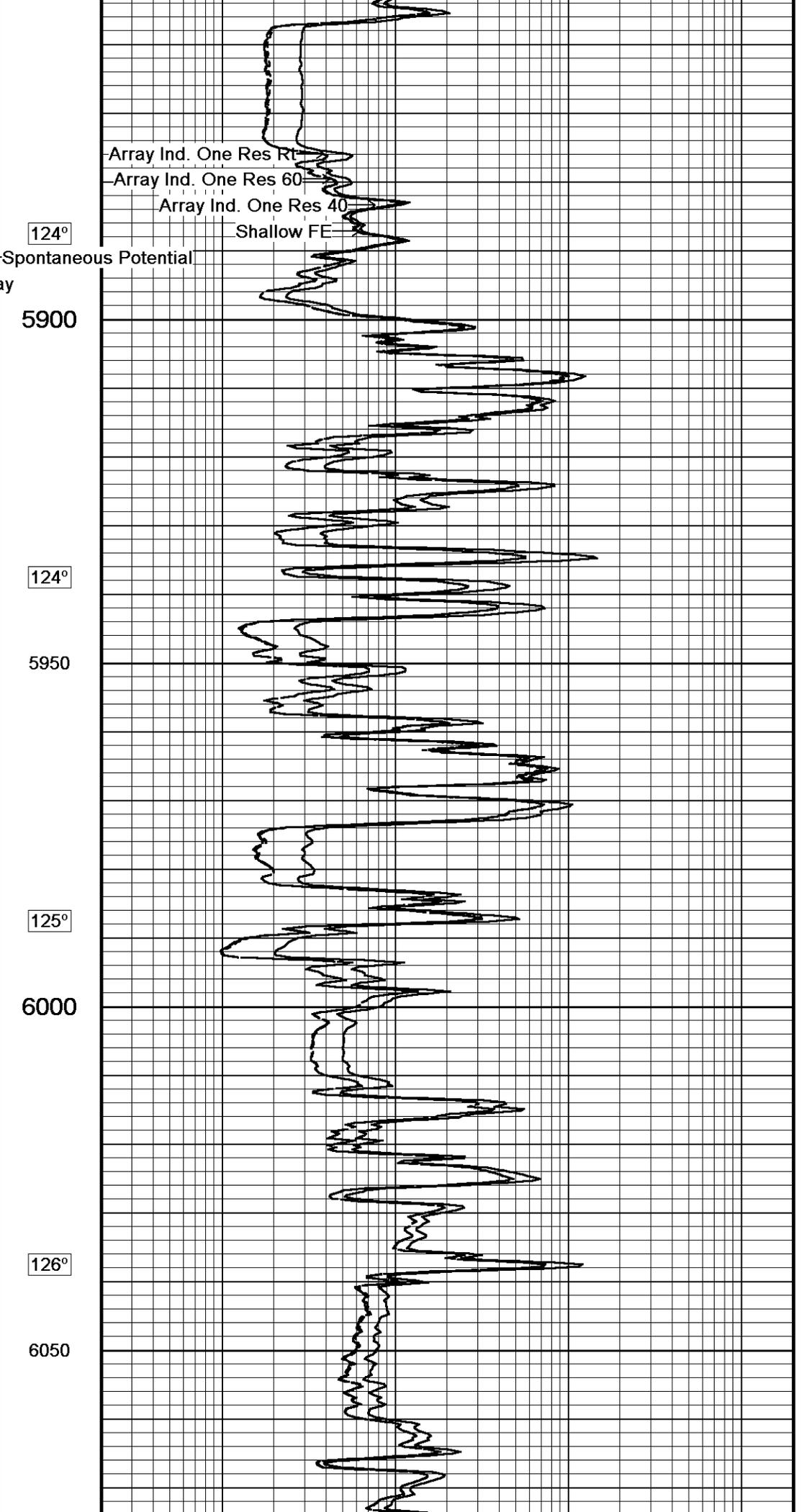
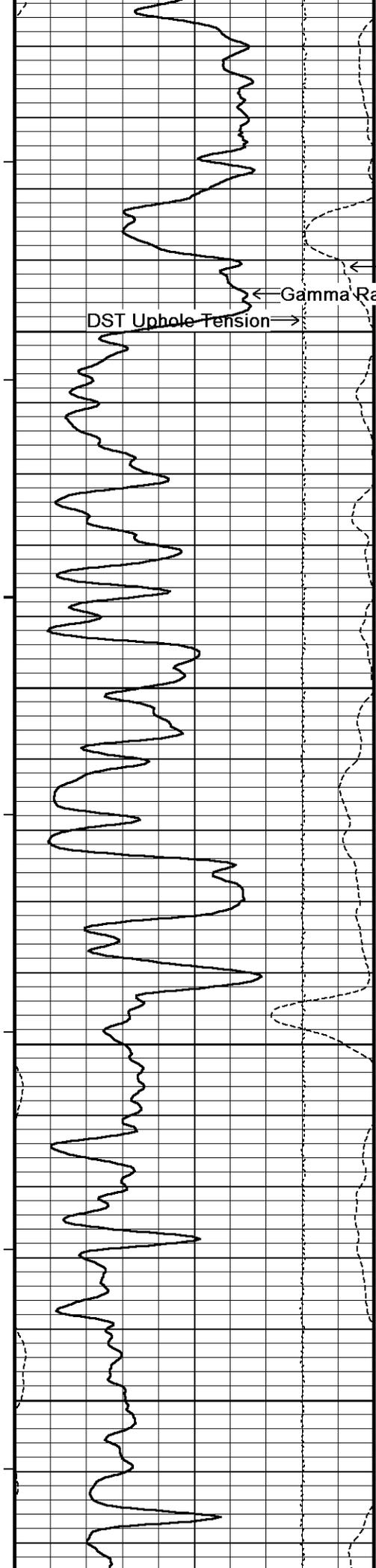
123°

5800

123°

5850





124°

124°

125°

126°

Spontaneous Potential

←

Gamma Ray

DST Uphole Tension →

5900

5950

6000

6050

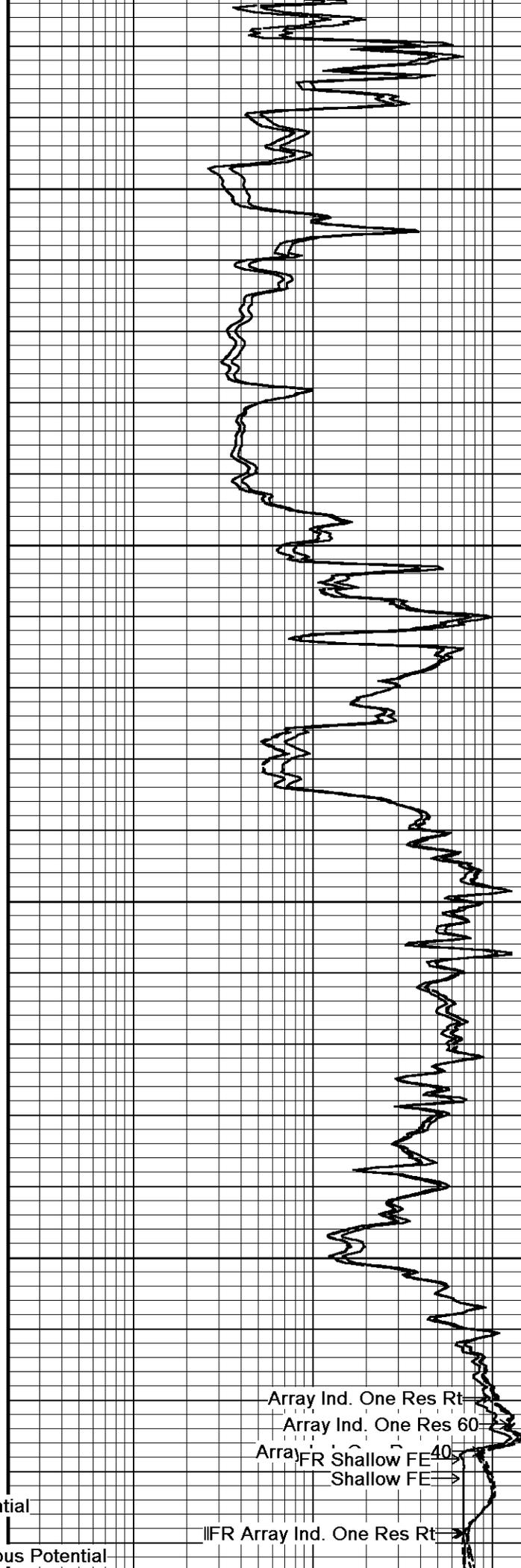
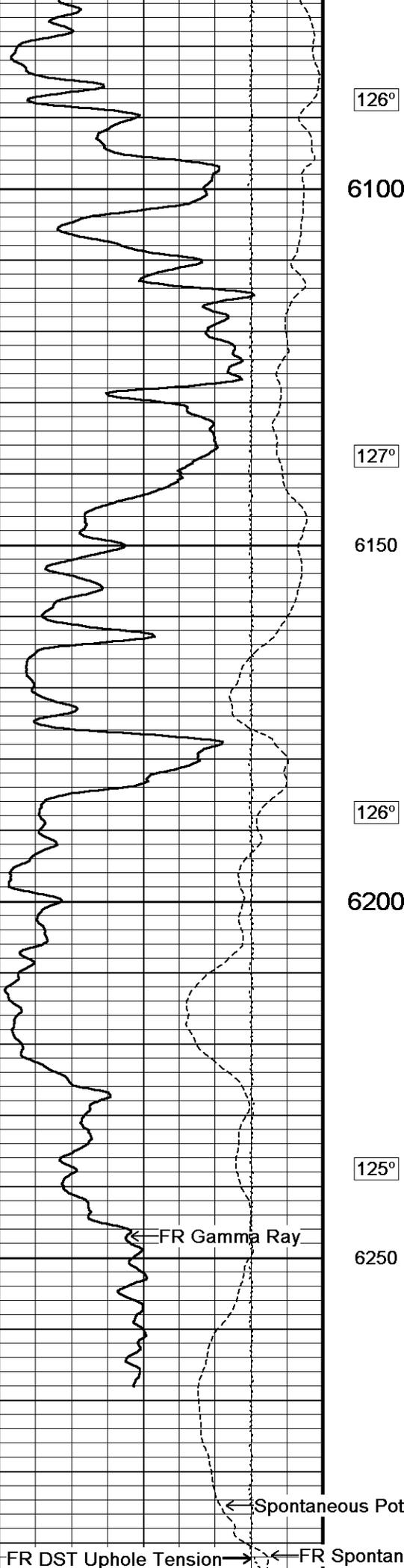
Array Ind. One Res Rt

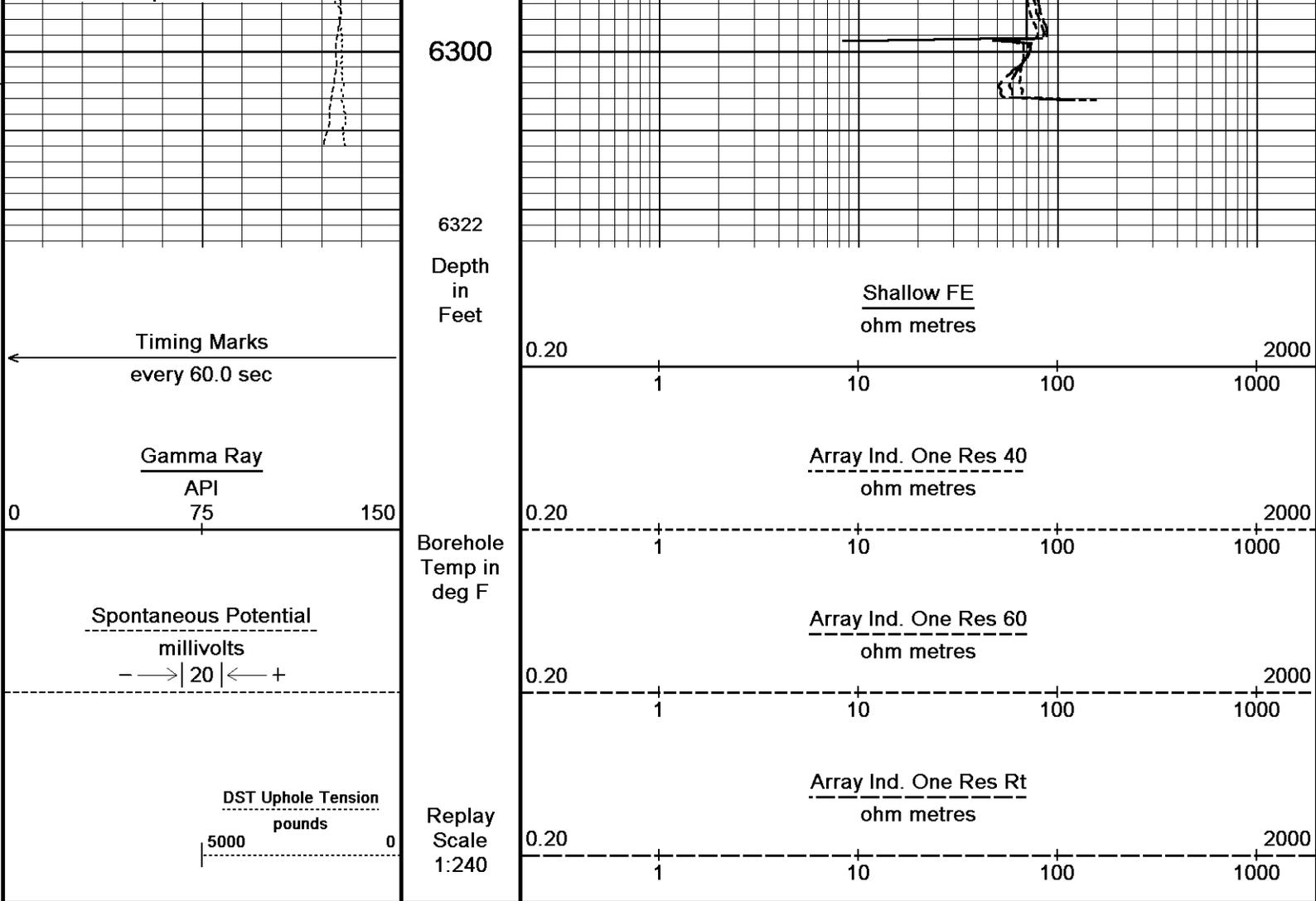
Array Ind. One Res 60

Array Ind. One Res 40

Shallow FE

←



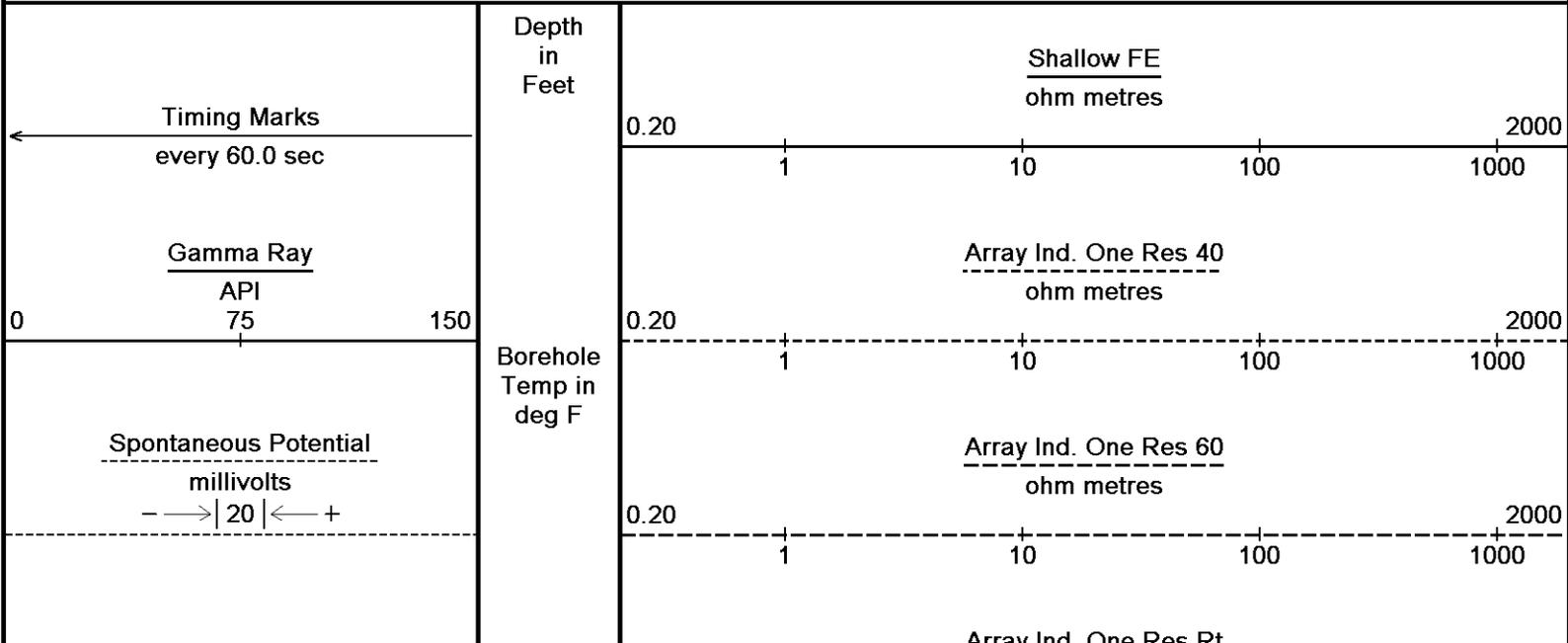


Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 29-DEC-2011 10:38
 Filename: C:\Users\Joel\AppData\Local\Temp\Weatherford PreView\O'Brien Eagle # 1-10_004.dta
 Recorded on 13-OCT-2011 15:17
 System Versions: Logged with 11.03.4044 Plotted with 12.01.3513

↑ **5 INCH MAIN** ↑

↓ **10 INCH HI-RES** ↓

Depth Based Data - Maximum Sampling Increment 2.5cm
 Plotted on 29-DEC-2011 10:38
 Filename: C:\Users\Joel\AppData\Local\Temp\Weatherford PreView\O'Brien Eagle # 1-10_003.dta
 Recorded on 13-OCT-2011 14:48
 System Versions: Logged with 11.03.4044 Plotted with 12.01.3513



DST Uphole Tension
pounds
5000 0

Replay
Scale
1:120

Array Ind. One Res Rt

ohm metres

0.20 1 10 100 1000 2000

5800

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

Spontaneous Potential
Gamma Ray

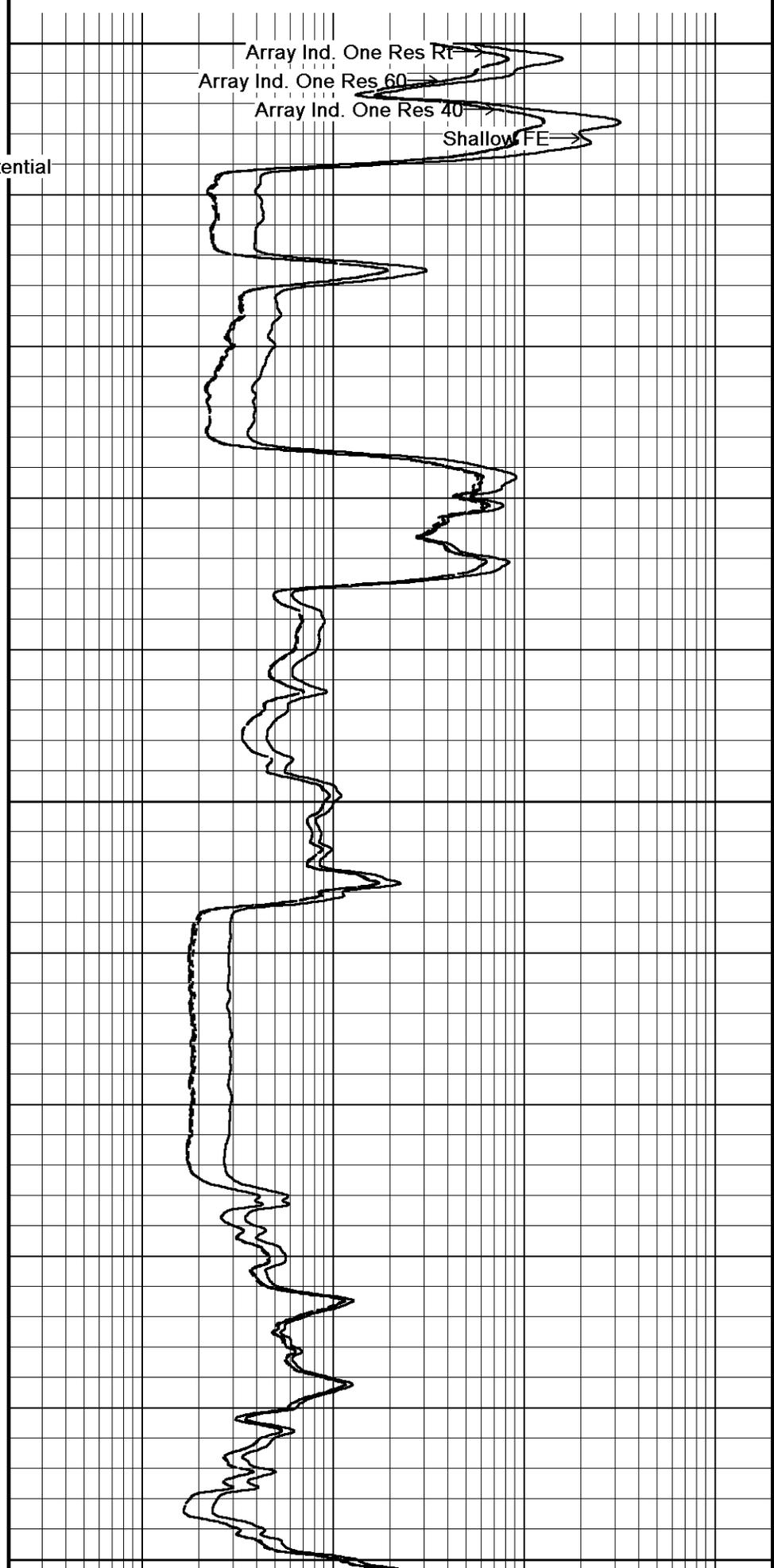
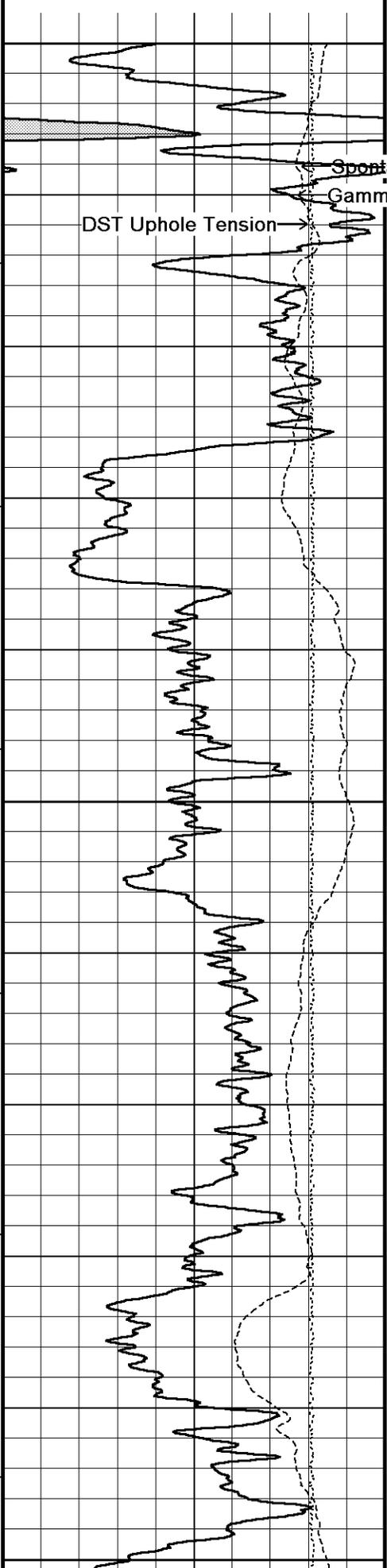
DST Uphole Tension

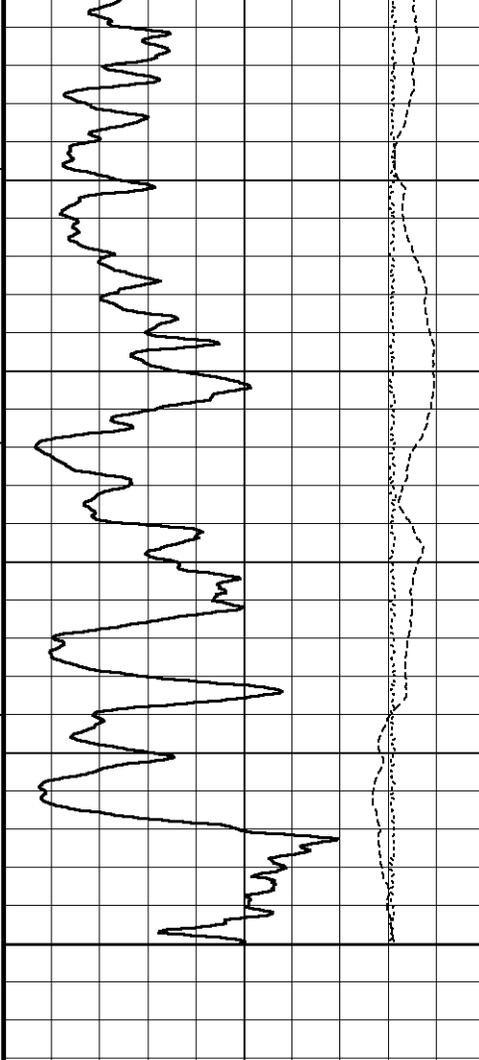
122°

5850

122°

5900





122°

5950

5954

Depth
in
Feet

Timing Marks
every 60.0 sec

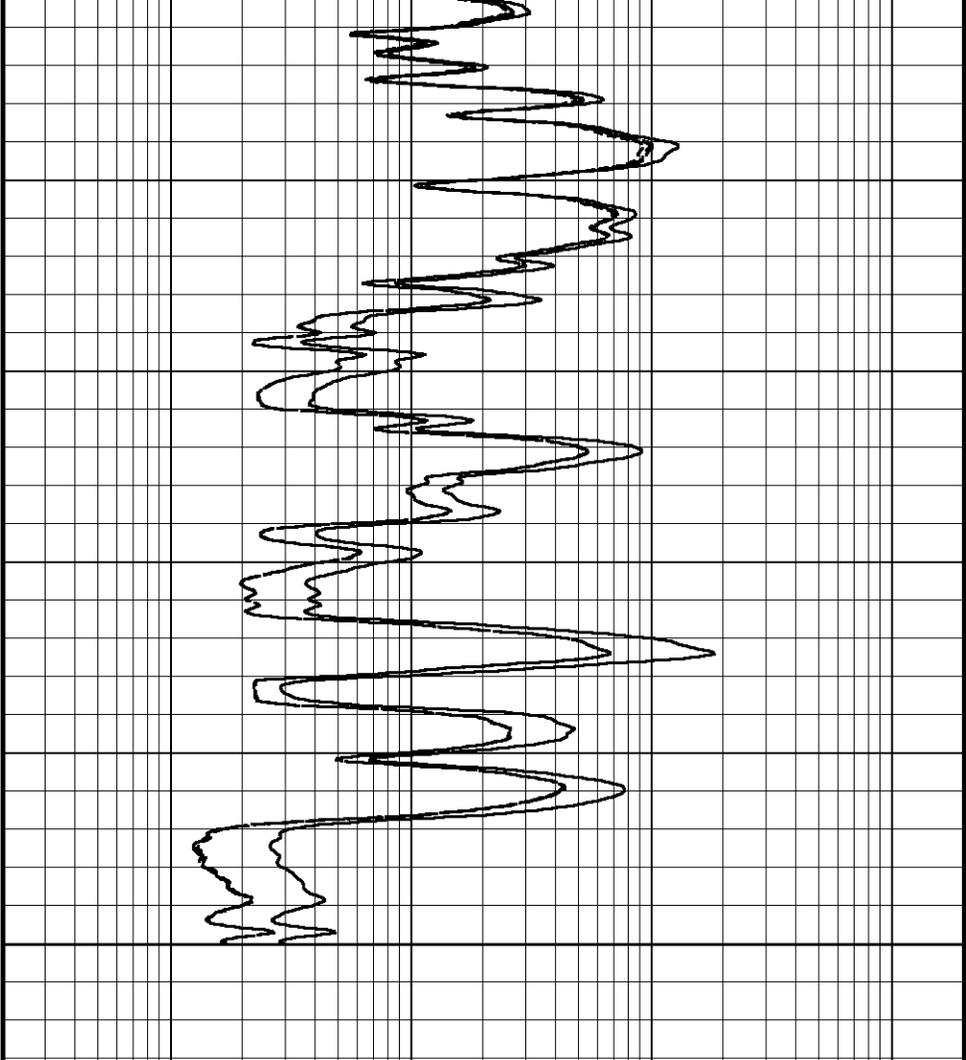
Gamma Ray
API
0 75 150

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

DST Uphole Tension
pounds
5000 0

Borehole
Temp in
deg F

Replay
Scale
1:120

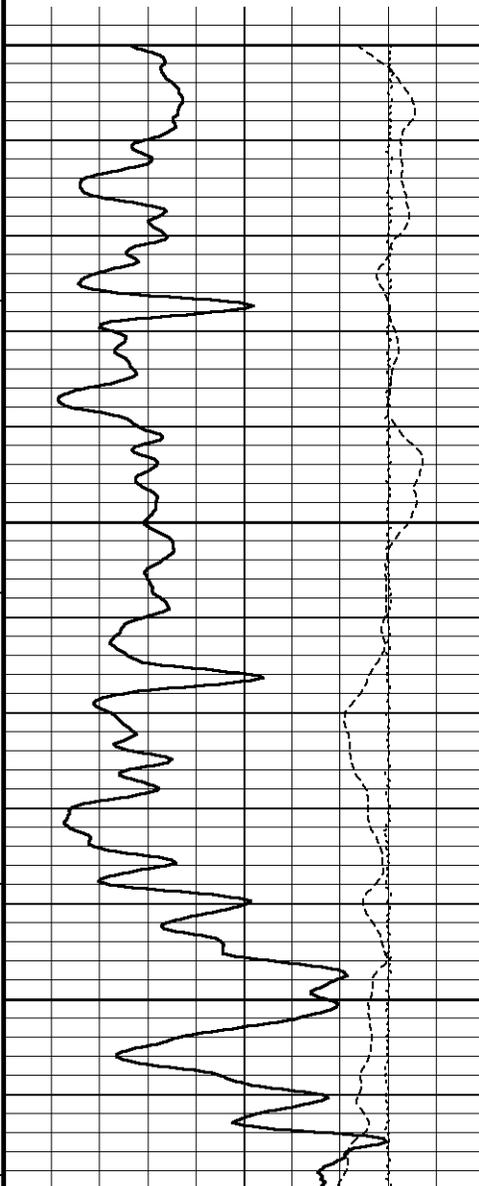
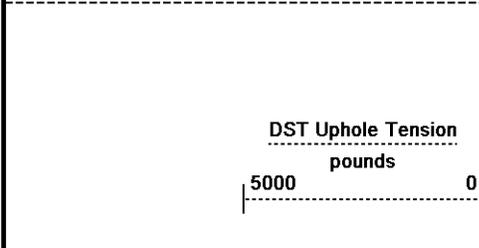
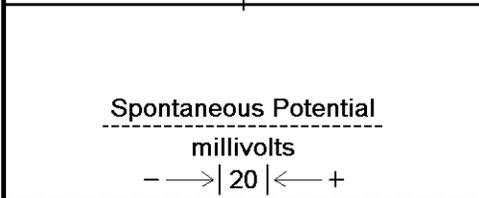
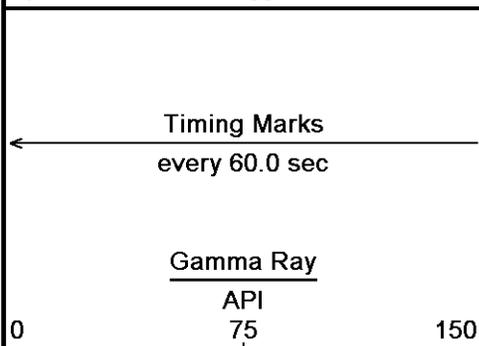


0.20 1 10 100 1000 2000

0.20 1 10 100 1000 2000

0.20 1 10 100 1000 2000

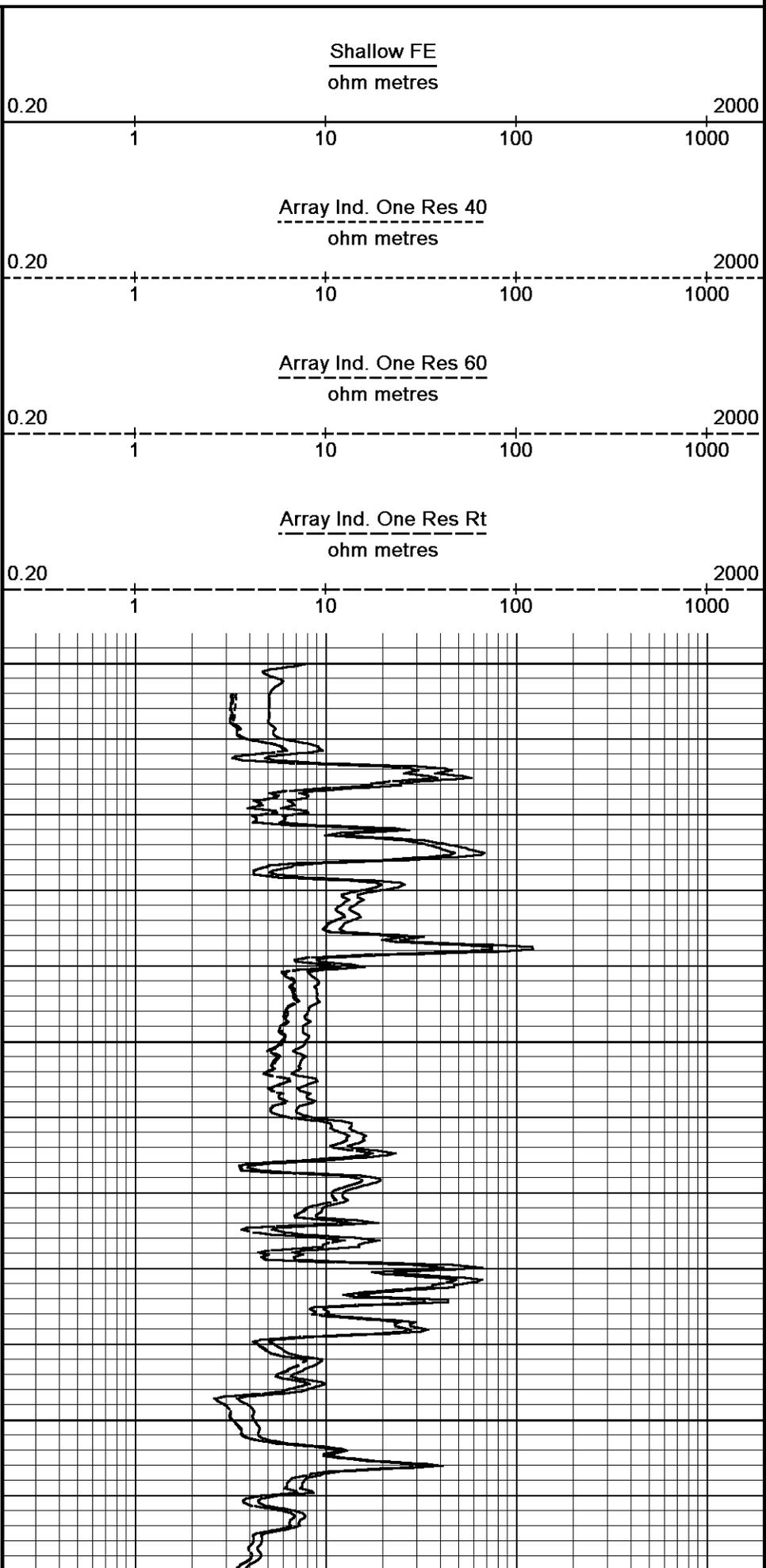
0.20 1 10 100 1000 2000

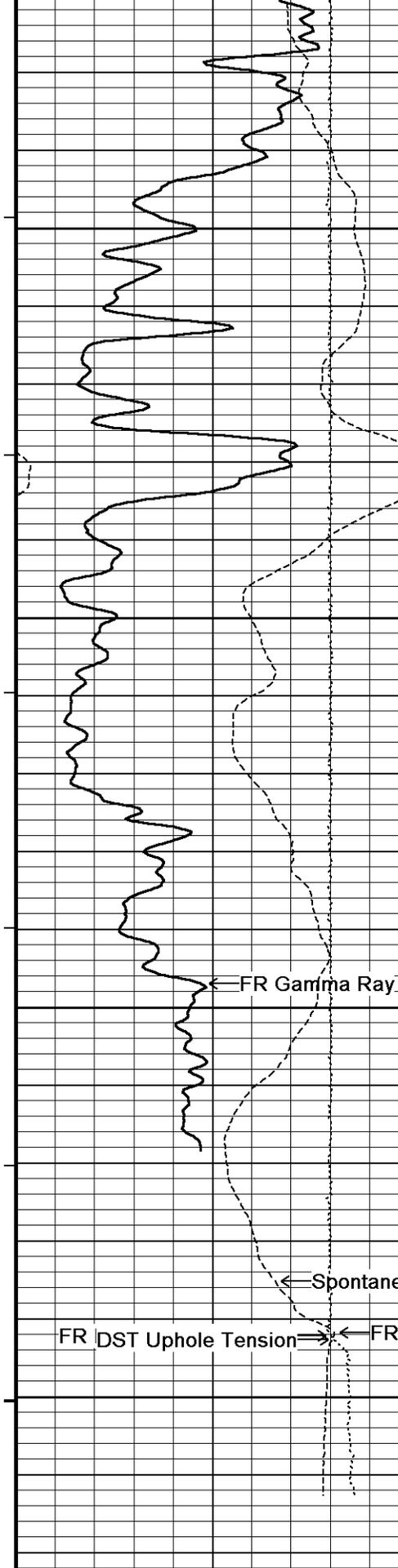


Depth in Feet

Borehole Temp in deg F

Replay Scale 1:240





126°

6150

126°

6200

125°

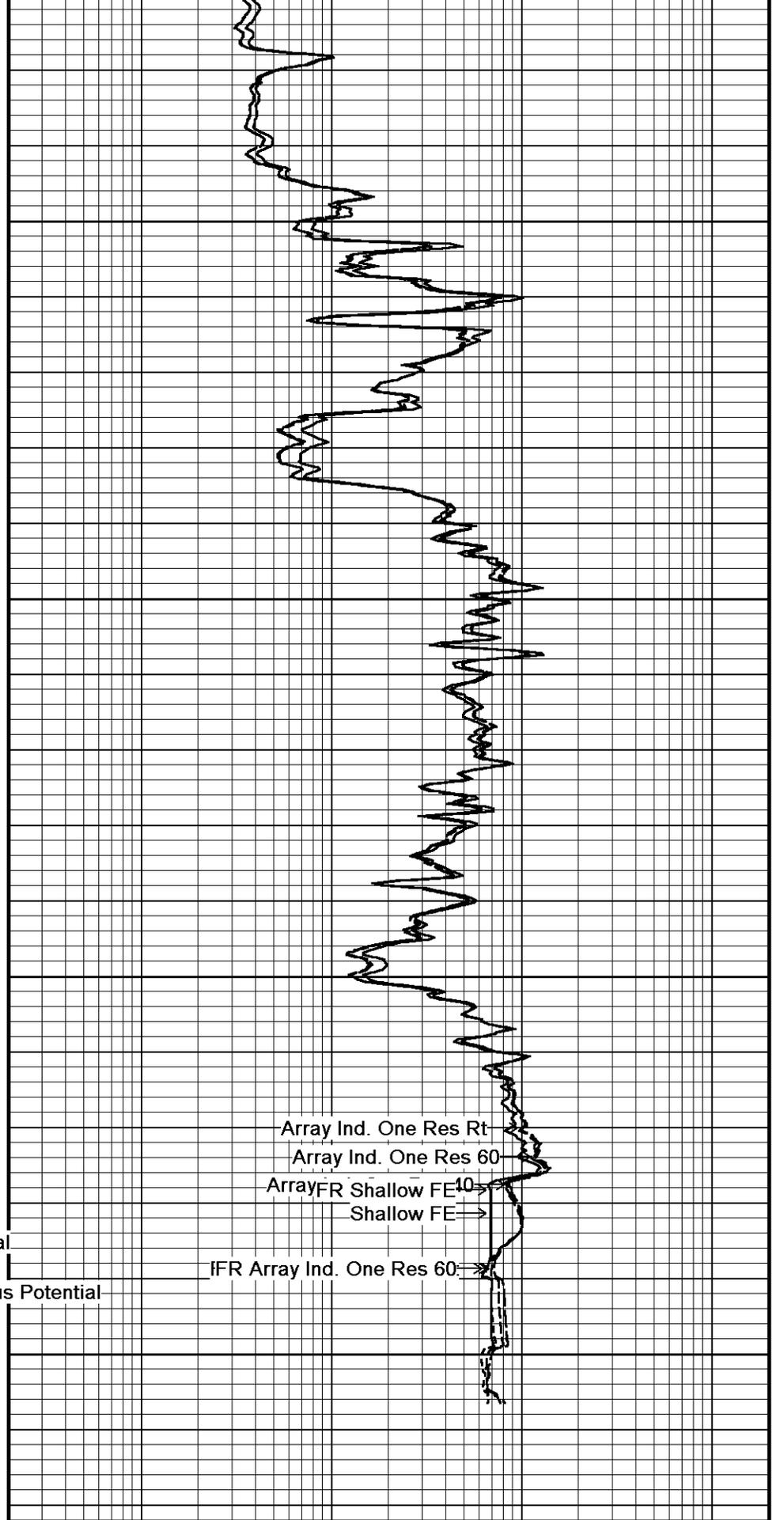
6250

← Spontaneous Potential

6300

6320

Depth
in
Feet



Array Ind. One Res Rt

Array Ind. One Res 60

ArrayFR Shallow FE40

Shallow FE

IFR Array Ind. One Res 60

Shallow FE
ohm metres

0.20

1

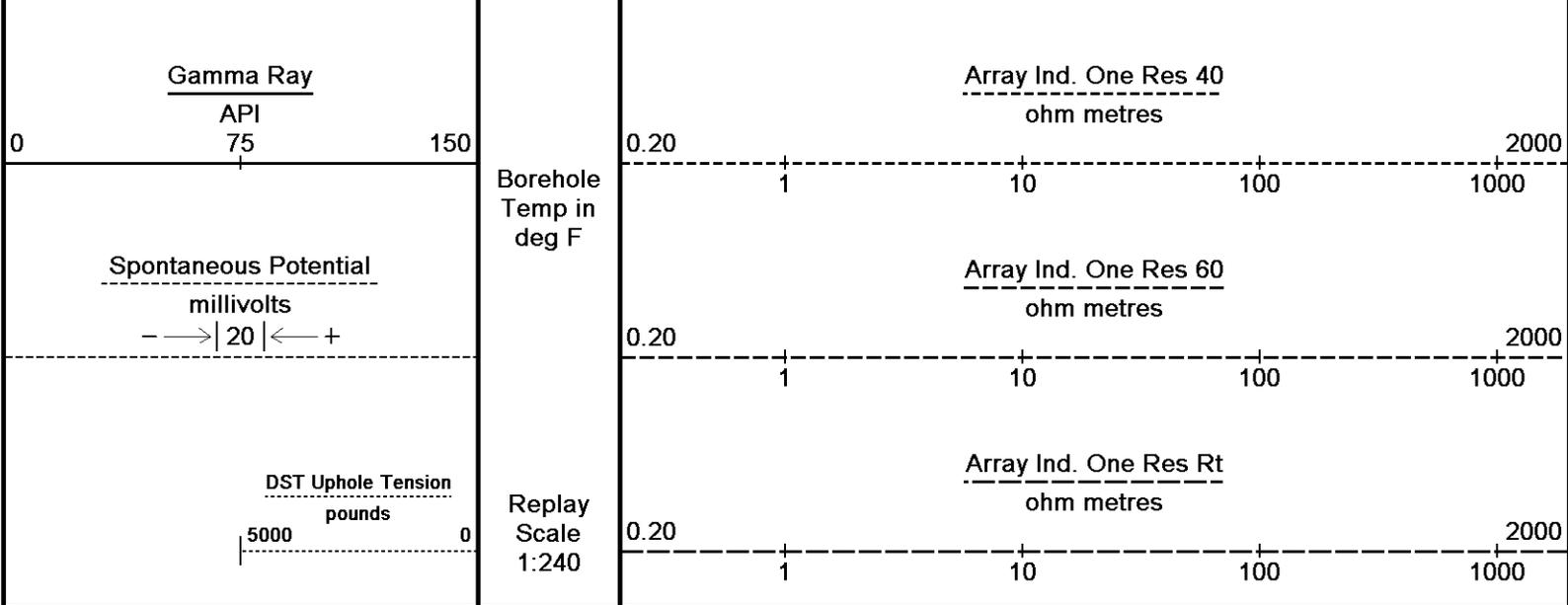
10

100

1000

2000

Timing Marks
every 60.0 sec



Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 29-DEC-2011 10:38
 Filename: C:\Users\Joe\AppData\Local\Temp\Weatherford PreView\0\O'Brien Eagle # 1-10_002.dta Recorded on 13-OCT-2011 14:35
 System Versions: Logged 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 Eagle # 1-10_004.dta

General Constants All 000 Last Edited on 13-OCT-2011 15:01

| | | |
|---|------------------------|------------|
| General Parameters | | |
| Mud Resistivity | 0.900 | ohm-metres |
| Mud Resistivity Temperature | 82.000 | 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. Four Res Rt | |
| RWA Constant A | 1.000 | |
| RWA Constant M | 2.000 | |

Down-hole Tension Calibration SMS 0 Field Calibration on 28-JUL-2011 17:55

| Reading No | Measured | Calibrated (lbs) |
|------------|----------|------------------|
| 1 | 12257.67 | 0.00 |
| 2 | 13806.99 | 650.00 |

Gamma Calibration MCG-C 84 Field Calibration on 13-OCT-2011 10:38

| | Measured | Calibrated (API) |
|--------------------|----------|------------------|
| Background | 74 | 51 |
| Calibrator (Gross) | 1125 | 776 |
| Calibrator (Net) | 1052 | 725 |

Gamma Constants MCG-C 84 Last Edited on 13-OCT-2011 15:01

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

| | | | |
|-------------------------|----------|-----------------|--|
| 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 | |

| | | | |
|--|----------|-------------------|--|
| High Resolution Temperature Calibration MCG-C 84 | | | Field Calibration on 24-JUN-2010 14:02 |
| | 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 | |

| | | | | | |
|--|--------------------|------------|---------------------|---------------------------------------|----------------------------------|
| Micro Normal and Micro Inverse Calibration MML-A 9 | | | | Base Calibration on 06-SEP-2011 11:42 | Field Check on 13-OCT-2011 10:46 |
| Base Calibration | | | | | |
| Channel | Resistor 1 | Resistor 2 | Measured | Resistor 1 | Resistor 2 |
| Micro Normal | 12.1 | 59.5 | | 2.6 | 12.8 |
| Micro Inverse | 15.6 | 77.7 | | 1.7 | 8.4 |
| Channel | Base Check (ohm-m) | | Field Check (ohm-m) | | |
| Micro Normal | 32.5 | | 32.5 | | |
| Micro Inverse | 16.4 | | 16.4 | | |

| | | | | |
|--|---|--|--------|----------------------------------|
| Micro Normal and Micro Inverse Constants MML-A 9 | | | | Last Edited on 13-OCT-2011 14:39 |
| 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 06-SEP-2011 11:51 | Field Calibration on 13-OCT-2011 10:43 |
| Base Calibration | | | | |
| Reading No | Measured | Calibrator Size (in) | | |
| 1 | 14909 | 5.98 | | |
| 2 | 18394 | 7.97 | | |
| 3 | 21677 | 9.86 | | |
| 4 | 25490 | 11.92 | | |
| 5 | 0 | 0.00 | | |
| 6 | N/A | N/A | | |
| Field Calibration | | | | |
| | Measured Caliper (in) | Actual Caliper (in) | | |
| | 6.11 | 5.98 | | |

| | | | | | |
|--------------------------------|--------|----------|------------------|---------------------------------------|----------------------------------|
| Neutron Calibration MDN-A.B 39 | | | | Base Calibration on 13-SEP-2011 12:16 | Field Check on 13-OCT-2011 10:53 |
| Base Calibration | | | | | |
| | | Measured | Calibrated (cps) | | |
| | Near | Far | Near | Far | |
| Ratio | 2859 | 90 | 3714 | 110 | |
| | 31.838 | | 33.764 | | |
| Field Calibrator at Base | | | Calibrated (cps) | | |
| Ratio | | | 2315 | 3367 | |
| | | | 0.688 | | |
| Field Check | | | Calibrated (cps) | | |
| Ratio | | | 2302 | 3331 | |
| | | | 0.691 | | |

| | | |
|-------------------------------|-----------------|----------------------------------|
| Neutron Constants MDN-A.B 39 | | Last Edited on 13-OCT-2011 14:39 |
| Neutron Source Id | N1095 | |
| Neutron Jig Number | NECD117 | |
| 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 | 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 67

Base Calibration on 06-SEP-2011 12:02
Field Check on 13-OCT-2011 11:04

| | | |
|------------------|----------|--------------------|
| Base Calibration | | |
| | Measured | Calibrated (ohm-m) |
| Reference 1 | 0.0 | 0.0 |
| Reference 2 | 960.5 | 126.8 |
| Base Check | | 280.8 |
| Field Check | | 280.7 |

FE Constants MFE-A.A 67

Last Edited on 13-OCT-2011 15:02

| | | |
|----------------------------------|--------------------------|--------|
| 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 188

Field Calibration on 12-AUG-2011 22:41

| | | |
|-------|----------|-------------------|
| | Measured | Calibrated(Deg F) |
| Lower | 32.00 | 32.00 |
| Upper | 68.00 | 68.00 |

High Resolution Temperature Constants MAI-A.A 188

Last Edited on 21-JUN-2011 20:05

| | |
|-------------------|----|
| Pre-filter Length | 11 |
|-------------------|----|

Induction Calibration MAI-A.A 188

Base Calibration on 25-JUL-2011 15:59
Field Check on 13-OCT-2011 11:06

| | | | | | |
|-----------------------|------|---------------------|------|----------------------|--------|
| Base Calibration | | | | | |
| Test Loop Calibration | | Measured | | Calibrated (mmho/m) | |
| Channel | Low | High | Low | High | |
| 1 | 16.5 | 472.3 | 9.3 | 966.2 | |
| 2 | 6.0 | 378.3 | 7.6 | 821.4 | |
| 3 | 3.5 | 260.7 | 5.2 | 566.0 | |
| 4 | 1.1 | 135.1 | 2.6 | 279.2 | |
| Array Temperature | | 82.2 | | Deg F | |
| Channel | | Base Check (mmho/m) | | Field Check (mmho/m) | |
| | | Low | High | Low | High |
| 1 | | 0.0 | 0.0 | 14.3 | 3847.2 |
| 2 | | 0.0 | 0.0 | 30.8 | 3568.5 |
| 3 | | 0.0 | 0.0 | 28.4 | 3039.9 |
| 4 | | 0.0 | 0.0 | 21.0 | 2038.1 |
| Deep | | 0.0 | 0.0 | 18.1 | 1923.1 |
| Medium | | 0.0 | 0.0 | 40.2 | 4054.1 |
| Shallow | | 0.0 | 0.0 | 45.3 | 5360.3 |
| Array Temperature | | 0.0 | | 66.9 | Deg F |

Induction Constants MAI-A.A 188

Last Edited on 13-OCT-2011 15:02

| | | |
|-----------------------------------|-----------------|--------|
| 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 64

Base Calibration on 07-SEP-2011 16:24
Field Calibration on 13-OCT-2011 11:02

Base Calibration

| Reading No | Measured | Calibrator Size (in) |
|------------|----------|----------------------|
| 1 | 12081 | 3.99 |
| 2 | 21120 | 5.98 |
| 3 | 29684 | 7.97 |
| 4 | 38065 | 9.86 |
| 5 | 47376 | 11.92 |
| 6 | N/A | N/A |

Field Calibration

| Measured Caliper (in) | Actual Caliper (in) |
|-----------------------|---------------------|
| 5.98 | 5.98 |

Photo Density Calibration MPD-B 64

Base Calibration on 07-SEP-2011 16:45
Field Check on 13-OCT-2011 10:59

Density Calibration

| Base Calibration | Measured | | Calibrated (sdu) | |
|------------------|----------|-------|------------------|-------|
| | Near | Far | Near | Far |
| Reference 1 | 59610 | 30619 | 59556 | 30836 |
| Reference 2 | 23960 | 2758 | 24941 | 2541 |

Field Check at Base

| | |
|--------|--------|
| 1212.8 | 1410.1 |
|--------|--------|

Field Check

| | |
|--------|--------|
| 1212.1 | 1398.5 |
|--------|--------|

PE Calibration

| Base Calibration | Measured | | | Calibrated Ratio |
|------------------|----------|-------|-------|------------------|
| | WS | WH | Ratio | |
| Background | 221 | 1085 | | |
| Reference 1 | 22948 | 59410 | 0.390 | 0.371 |
| Reference 2 | 6634 | 23822 | 0.282 | 0.272 |

Field Check at Base
221.4 1084.8

Field Check
219.1 1082.0

Density Constants MPD-B 64

Last Edited on 13-OCT-2011 15:01

| | | |
|-------------------------------|-------------------|-------|
| Density Source Id | P57072B | |
| 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 | |
| Matrix Density (gm/cc) | Depth (ft) | |
| 2.71 | 0.00 | |
| 0.00 | 0.00 | |
| 0.00 | 0.00 | |
| 0.00 | 0.00 | |
| 0.00 | 0.00 | |
| 0.00 | 0.00 | |
| 0.00 | 0.00 | |
| 0.00 | 0.00 | |

DOWNHOLE EQUIPMENT

C:\Users\Joe\AppData\Local\Temp\Weatherford PreView\0\O'Brien Eagle # 1-10_004.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

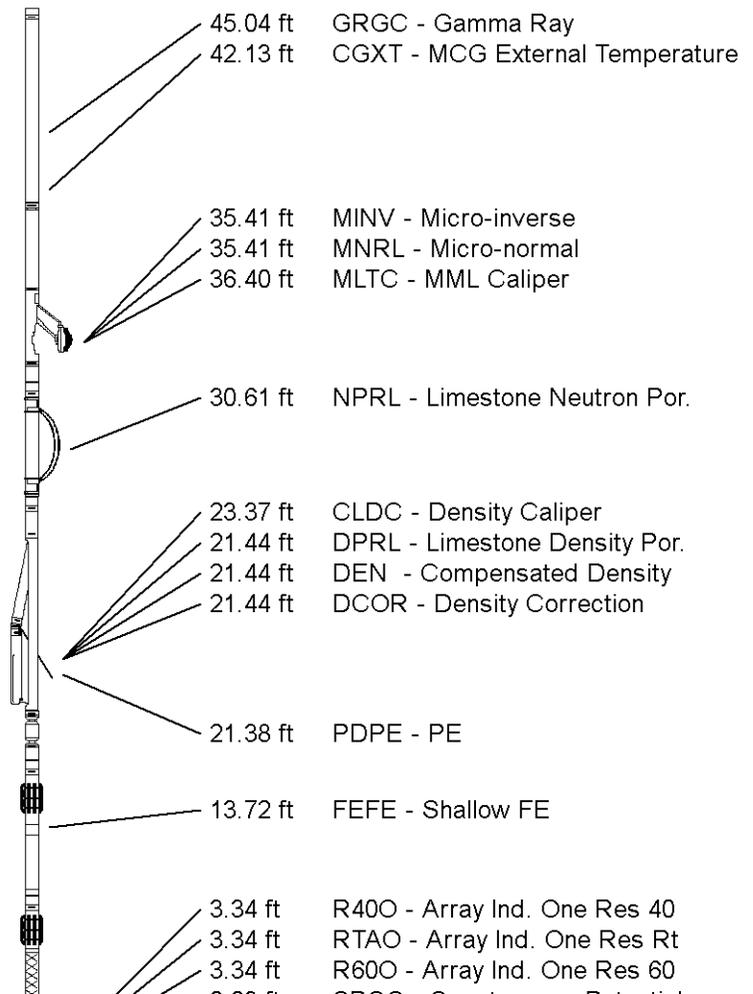
Compact Neutron
MDN-A.B 39 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper
MPD-B 64 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

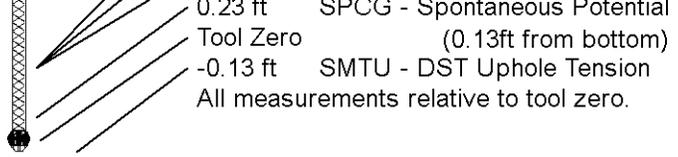
SKJ-D.A Compact Knuckle Joint
SKJ-D.A 91 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

Compact Focussed Electric
MFE-A.A 67 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

Compact Induction
MAI-A.A 188 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 EAGLE # 1-10
FIELD NOVINGER SOUTHWEST
PROVINCE/COUNTY MEADE
COUNTRY/STATE U.S.A. / KANSAS

| | | | | | |
|-------------------------|---------|------|---------------|---------|------|
| Elevation Kelly Bushing | 2693.00 | feet | First Reading | 6289.00 | feet |
| Elevation Drill Floor | 2691.00 | feet | Depth Driller | 6300.00 | feet |
| Elevation Ground Level | 2681.00 | feet | Depth Logger | 6292.00 | feet |



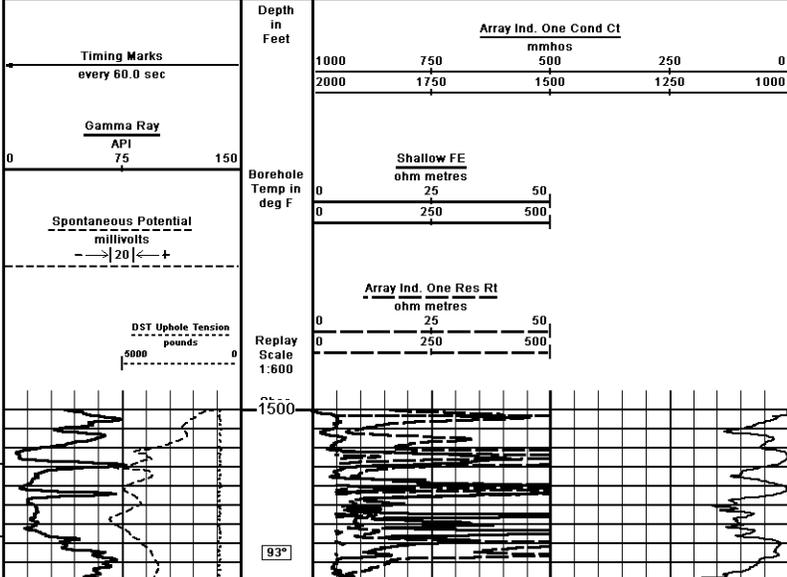
Weatherford[®]

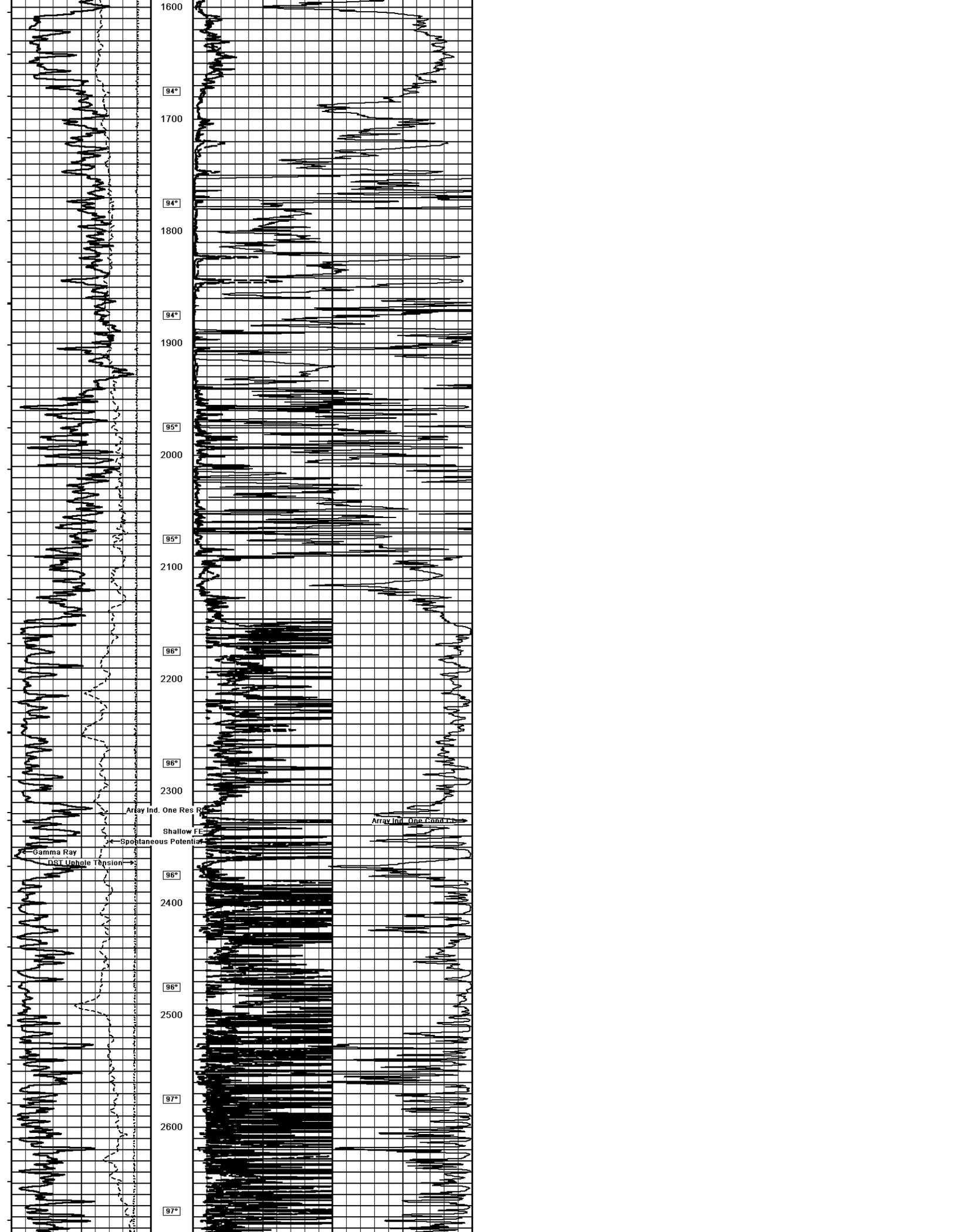
**ARRAY INDUCTION
 SHALLOW FOCUSED
 ELECTRIC LOG**

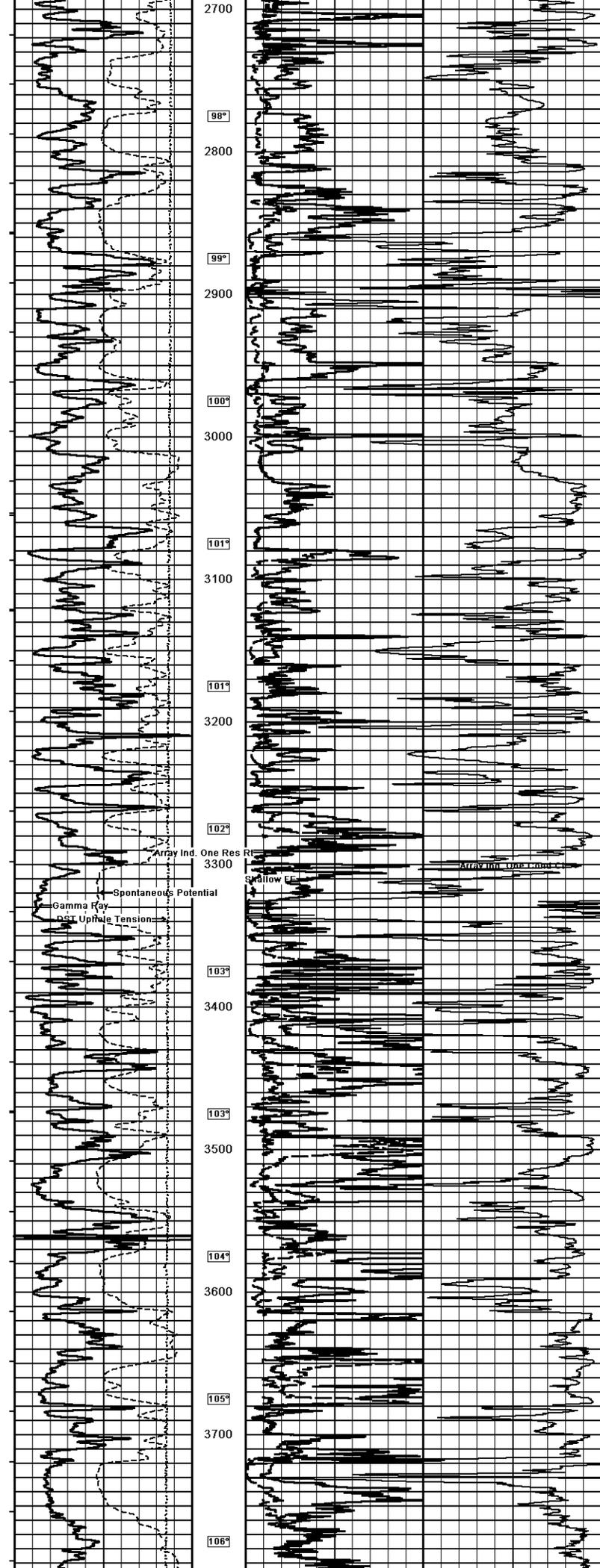


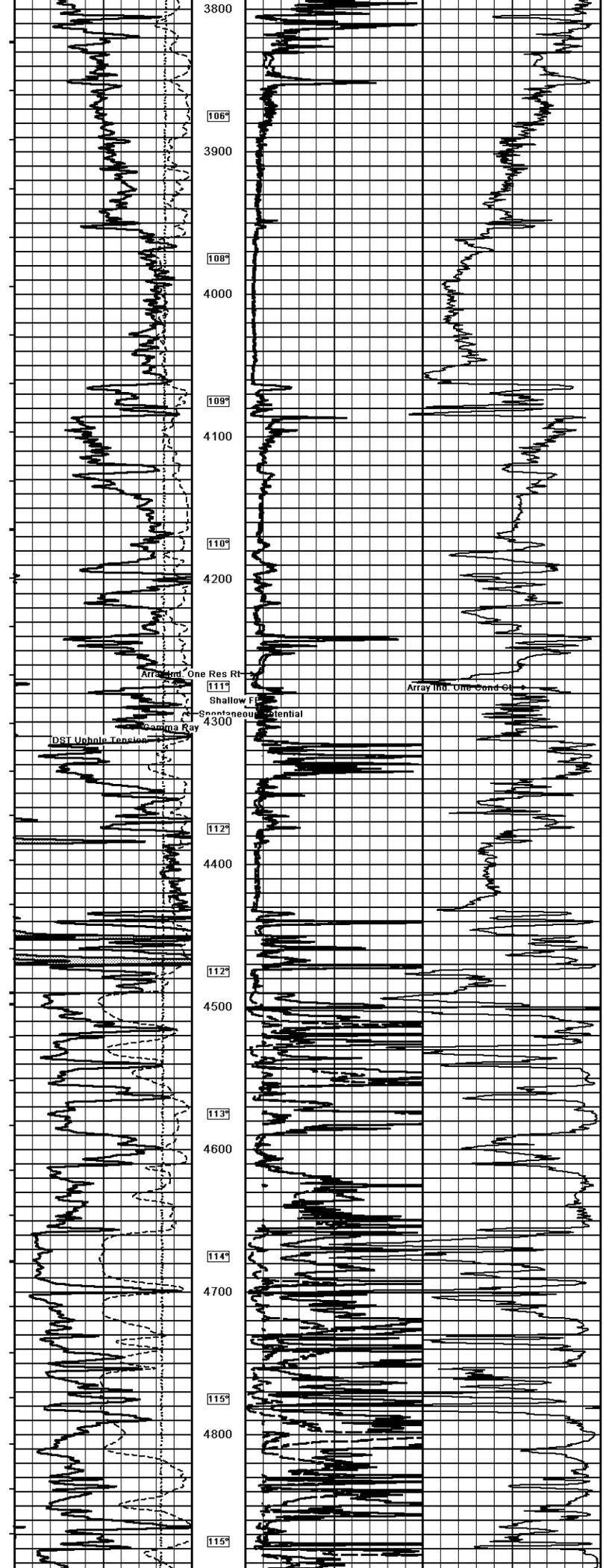
| | | | |
|--|-----------------|---|--------------------------------|
| Weatherford | | ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG | |
| COMPANY: O'BRIEN ENERGY RESOURCES CORP. WELL: EAGLE # 1-10 FIELD: NOVINGER SOUTHWEST PROVINCE/COUNTY: MEADE COUNTRY/STATE: U.S.A. / KANSAS LOCATION: 680' FNL & 1980' FWL | | | |
| SEC 10 | TYPE 34S | FACE 30W | Other Services: MFL, MFL/DNDIN |
| API Number 15-119-21298 | Port Number | Formant Datum G.L. Elevation 2681 feet | Log Measured From KB @ 12 FEET |
| Date 13-OCT-2011 | Run Number ONE | Depth Driller 6300.00 | feet |
| Depth Logger 6292.00 | feet | First Reading 6289.00 | feet |
| Last Reading 7500.00 | feet | Casing Driller 14905.00 | feet |
| Casing Logger 19000.00 | feet | BIT Size 7.875 | inches |
| Hole Fluid Type CHEMICAL | 9.10 | IBUSg | 80.00 |
| Density/Viscosity | 11.00 | | 6.80 |
| PH/Fluid Loss | | | |
| Sample Source | | | |
| Run @ Measured Temp | 0.90 @ 82.0 | ohm-m | |
| Run @ Measured Temp | 0.72 @ 82.0 | ohm-m | |
| Run @ Measured Temp | 1.08 @ 82.0 | ohm-m | |
| Source Fmt / Rmc | | CALC | |
| Run @ BHT | 0.60 @ 28.0 | ohm-m | |
| Time Since Circulation | 126.00 | deg F | |
| Max Recorded Temp | 130.96 | LIB | |
| Equipment Name | COMFACT | | |
| Equipment Base | A. GIANBALVO | | |
| Recorded By | ROGER PERKINSON | | |
| Missed By | | | |
| S.O.I. JOB # | 3531193 | | |
| | | | PAUL WIEMANN LEH 1-283 |

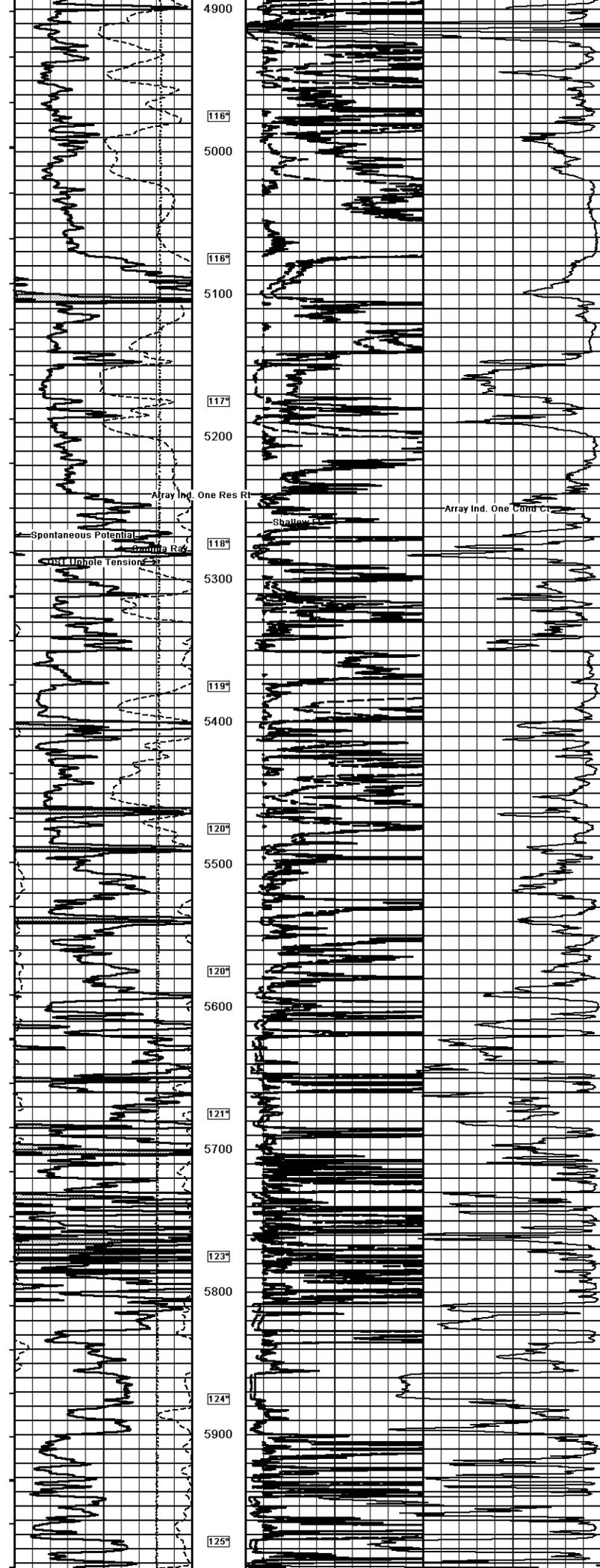
1 INCH MAIN
 Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 29-DEC-2011 10:38
 Filename: C:\Users\Joe\AppData\Local\Temp\Weatherford PreView\0\O'Brien Eagle # 1-10_004.dta
 Recorded on 13-OCT-2011 15:17
 System Versions: Logged with 11.03.4044 Plotted with 12.01.3513











116°

116°

117°

118°

119°

120°

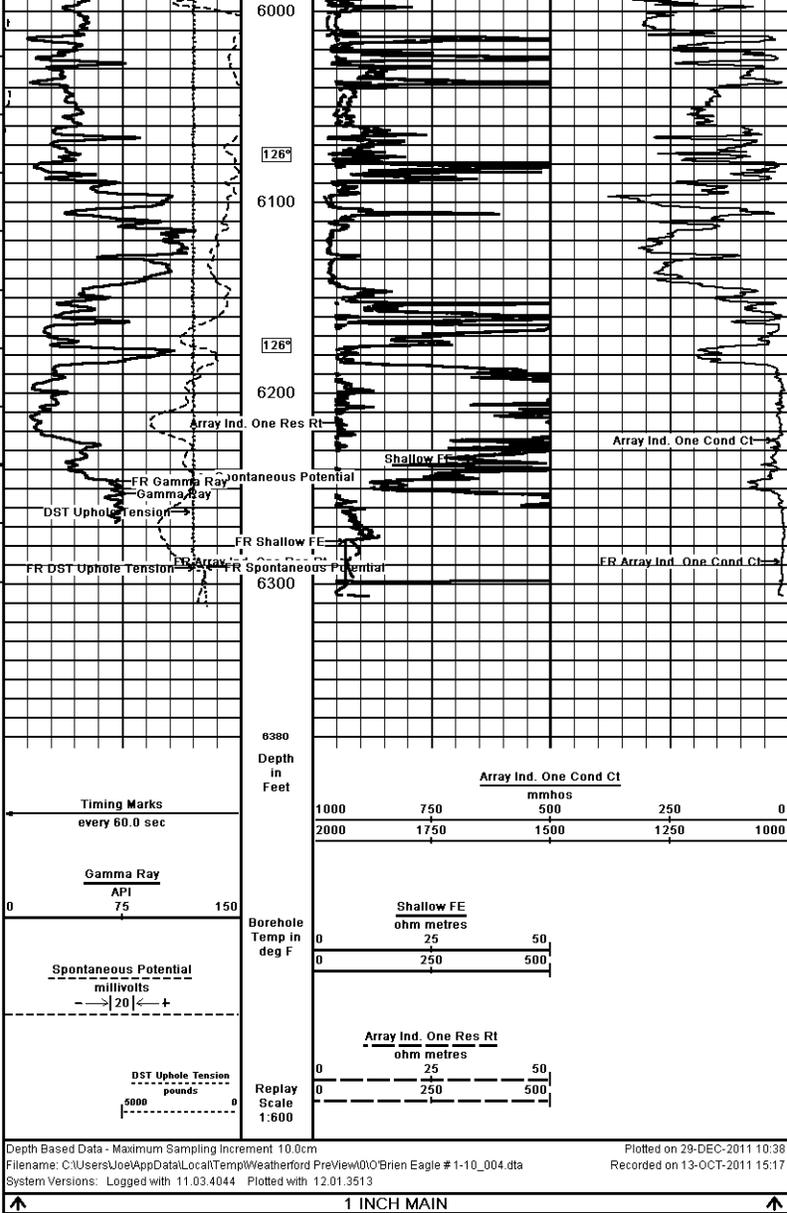
120°

121°

123°

124°

125°



| | | | | | |
|-------------------------|---------|--------------------------------|---------------|---------|------|
| COMPANY | | O'BRIEN ENERGY RESOURCES CORP. | | | |
| WELL | | EAGLE # 1-10 | | | |
| FIELD | | NOVINGER SOUTHWEST | | | |
| PROVINCE/COUNTY | | MEADE | | | |
| COUNTRY/STATE | | U.S.A. / KANSAS | | | |
| Elevation Kelly Bushing | 2693.00 | feet | First Reading | 6289.00 | feet |
| Elevation Drill Floor | 2691.00 | feet | Depth Driller | 6300.00 | feet |
| Elevation Ground Level | 2681.00 | feet | Depth Logger | 6292.00 | feet |

Weatherford

ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG