



# Weatherford

## ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG

### GRAND MESA OPERATING COMPANY

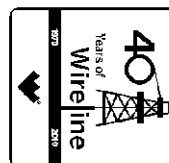
#### HUND #1-9

#### WILDCAT

#### GOVE

#### U.S.A./KANSAS

#### 1482' FSL & 1873' FWL



COMPANY

WELL

FIELD

PROVINCE/COUNTY

COUNTRY/STATE

LOCATION

SEC

TWP

RGE

API Number

Permit Number

Permanent Datum G.L., Elevation 2946 feet

Log Measured From K.B. @ 5 FEET above Permanent Datum

Drilling Measured From K.B.

Elevations: KB 2951.00 DF 2950.00 GL 2946.00

Date 26-FEB-2011

Run Number ONE

Depth Driller 4690.00 feet

Depth Logger 4688.00 feet

First Reading 4685.00 feet

Last Reading 217.00 feet

Casing Driller 222.00 feet

Casing Logger 217.00 feet

Bit Size 7.880 inches

Hole Fluid Type CHEMICAL

Density / Viscosity 9.10 lb/USg 55.00 CP

PH / Fluid Loss 10.00 7.20 ml/30Min

Sample Source FLOWLINE

Rm @ Measured Temp 0.84 @ 78.0 ohm-m

Rmf @ Measured Temp 0.67 @ 78.0 ohm-m

Rmc @ Measured Temp 1.01 @ 78.0 ohm-m

Source Rmf / Rmc CALC CALC

Rm @ BHT 0.62 @106.0 ohm-m

Time Since Circulation 3 HOURS

Max Recorded Temp 106.00 deg F

Equipment Name COMPACT

Equipment / Base 13057 LIB

Recorded By SHAWN NUTT

Witnessed By MACKLIN ARMSTRONG

S.O.#/JOB# 3529062 LB11-037

### BOREHOLE RECORD

Last Edited: 01-JAN-2003 07:57

Bit Size inches	Depth From feet	Depth To feet
7.880	217.00	4688.00

### CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	8.625	0.00	217.00	24.00

### REMARKS

Tools Used: MAI, MPD, MCG, MDN, MML, MFE, SKJ  
 Hardware: MPD: 4 inch profile plate. MAI and MFE: 0.5 Inch standoffs used. MDN: Dual Bowspring used.  
 2.71 G/CC Limestone density matrix used to calculate porosity.  
 Sonic porosity calculated on a limestone scale (47.5 usec/ft).  
 Borehole rugosity, tight pulls, and washouts will affect data quality.  
 All intervals logged and scaled per customer's request.  
 Annular volume with 5.5 inch production casing = 235 cu. ft.  
 Service order #3529062  
 Rig: Murfin #24  
 Engineer: Shawn Nutt  
 Operator(s): Ken Rinehart, Nick Adame

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

# 2 INCH MAIN PASS

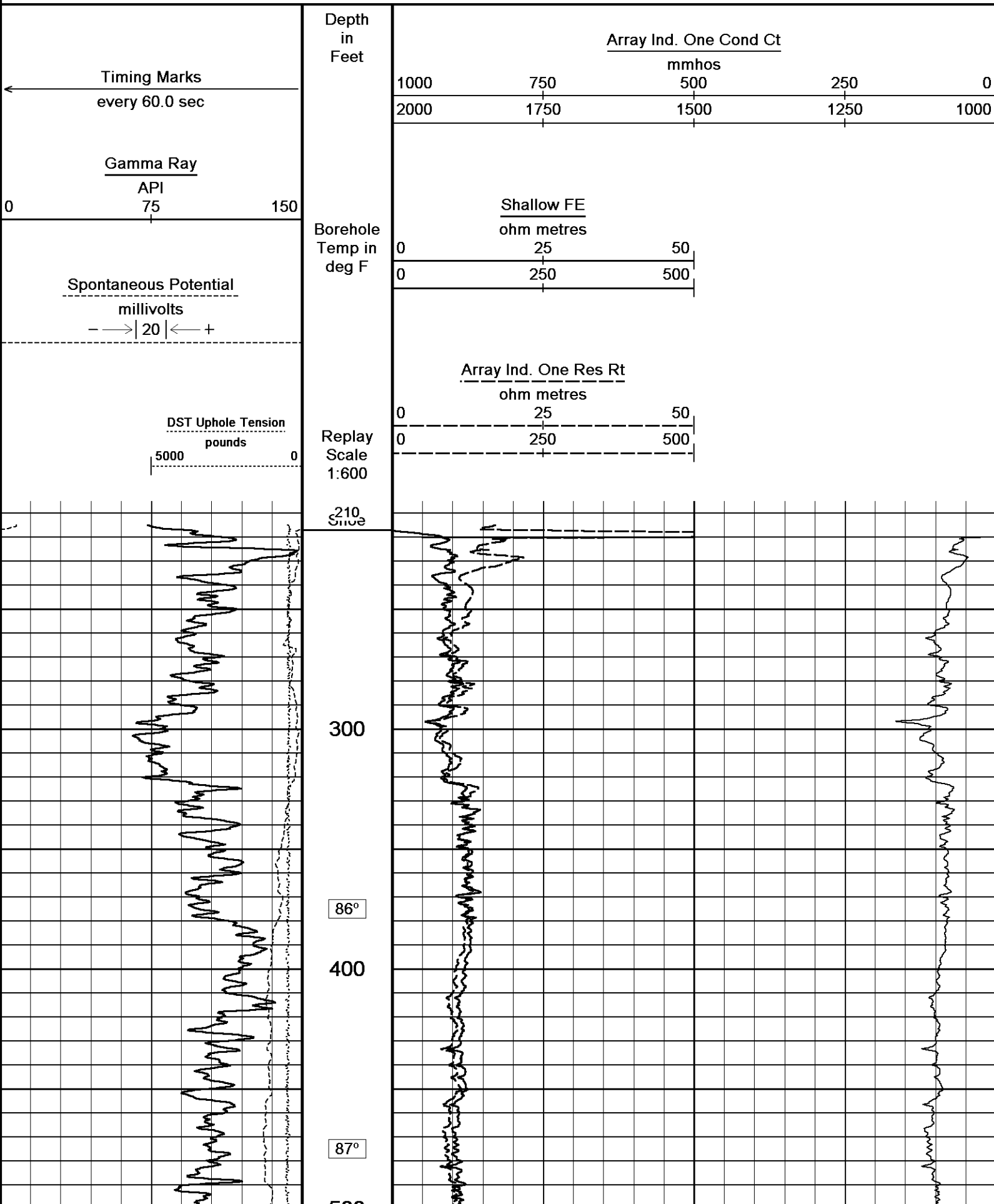
Depth Based Data - Maximum Sampling Increment 10.0cm

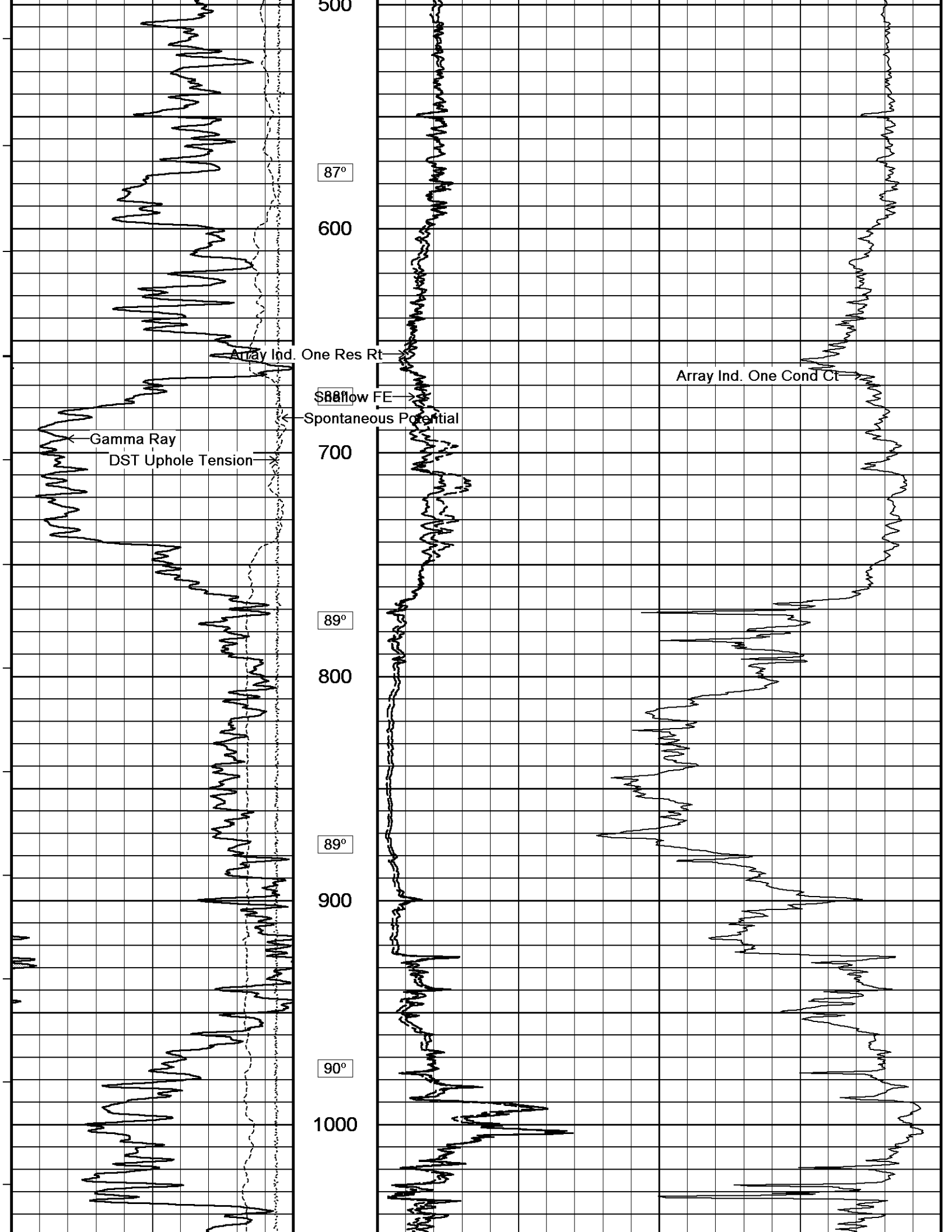
Plotted on 20-APR-2011 10:25

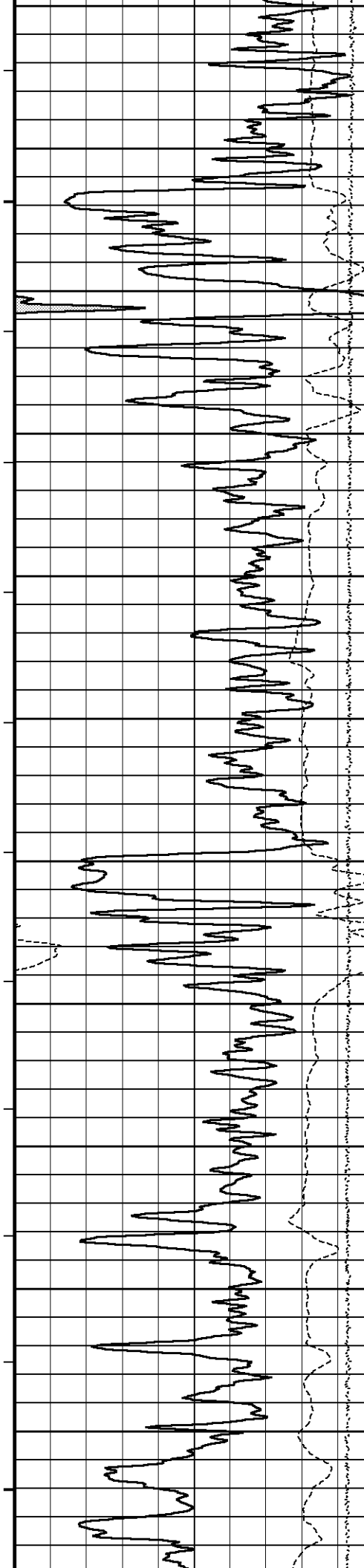
Filename: C:\Users\SSTRIB~1\AppData\Local\Temp\Weatherford PreView0\Hund #1-9\_002.dta

Recorded on 01-JAN-2003 06:05

System Versions: Logged with 11.03.2789 Plotted with 11.02.2164







91°

1100

91°

1200

92°

1300

93°

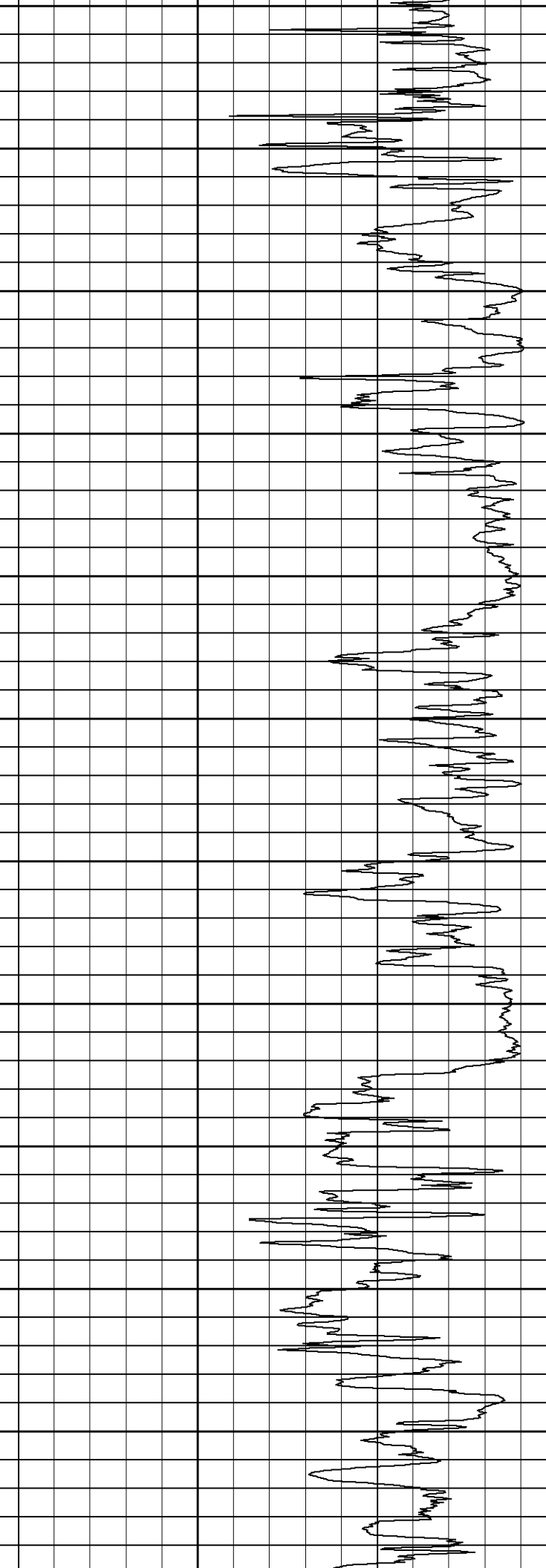
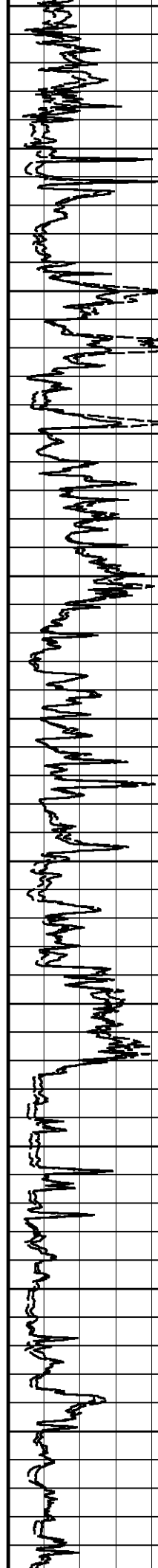
1400

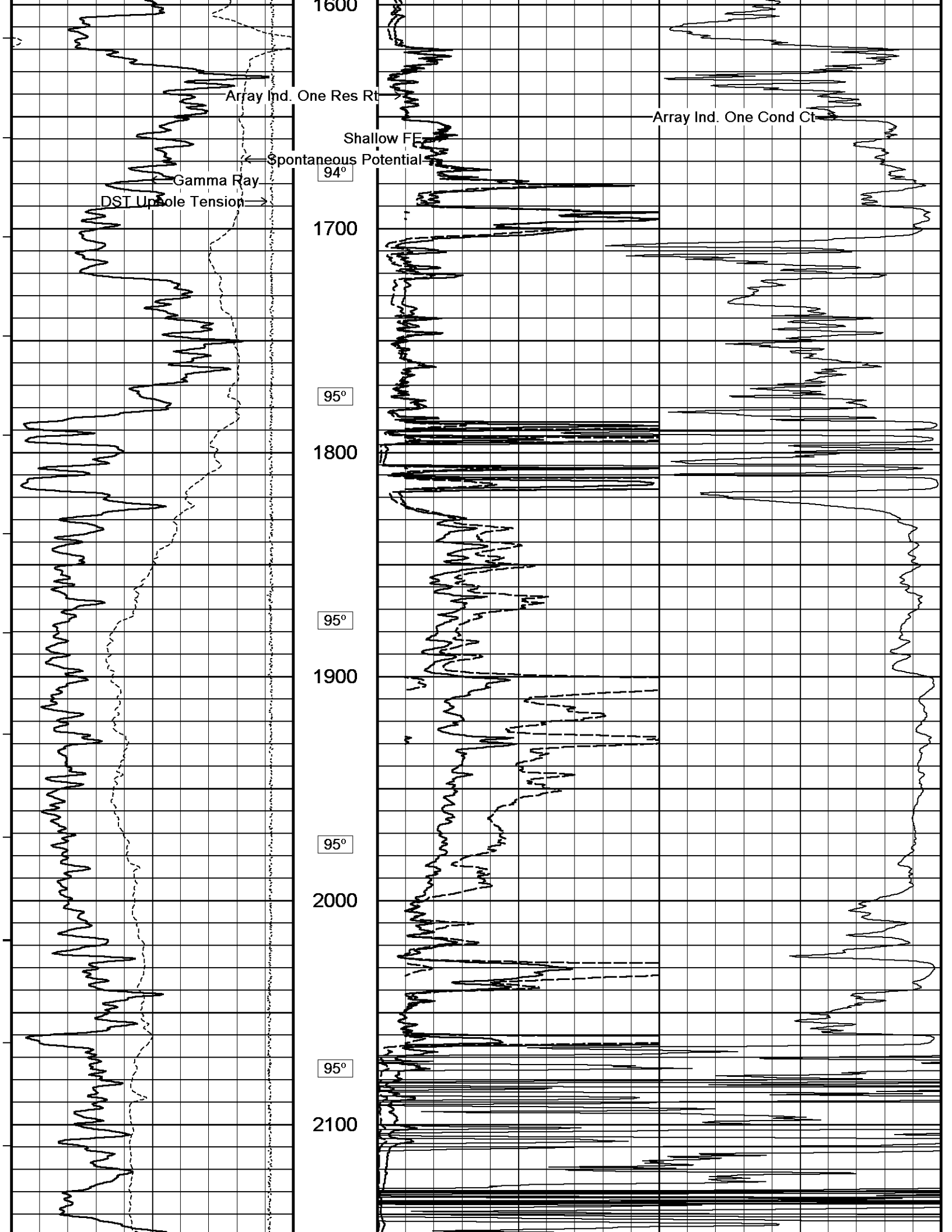
93°

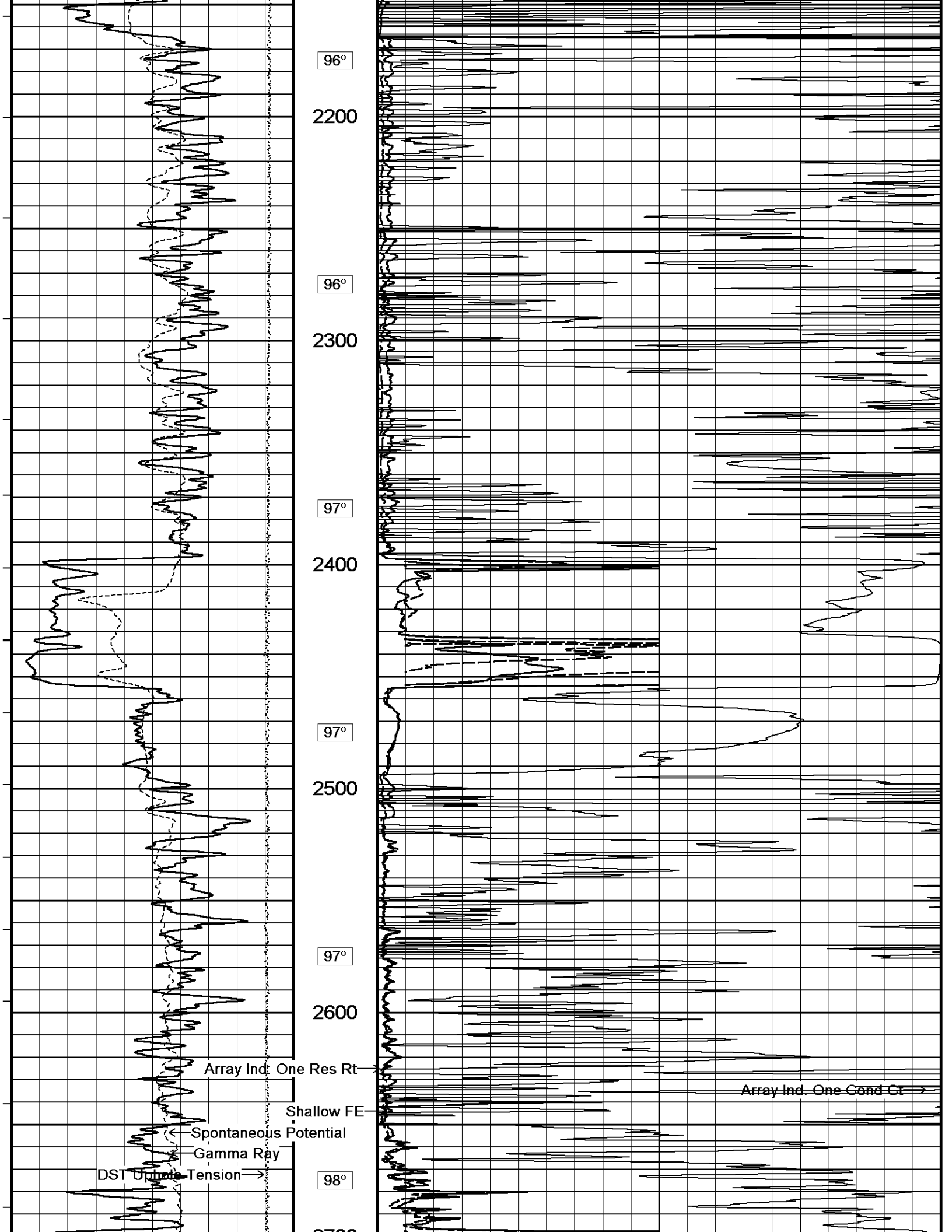
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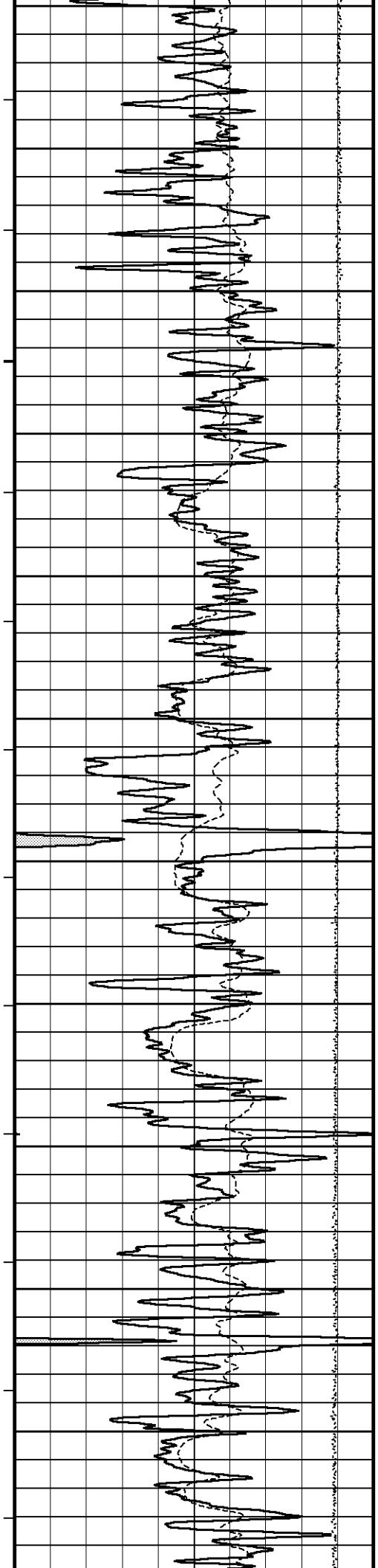
94°

1600









2700

98°

2800

98°

2900

99°

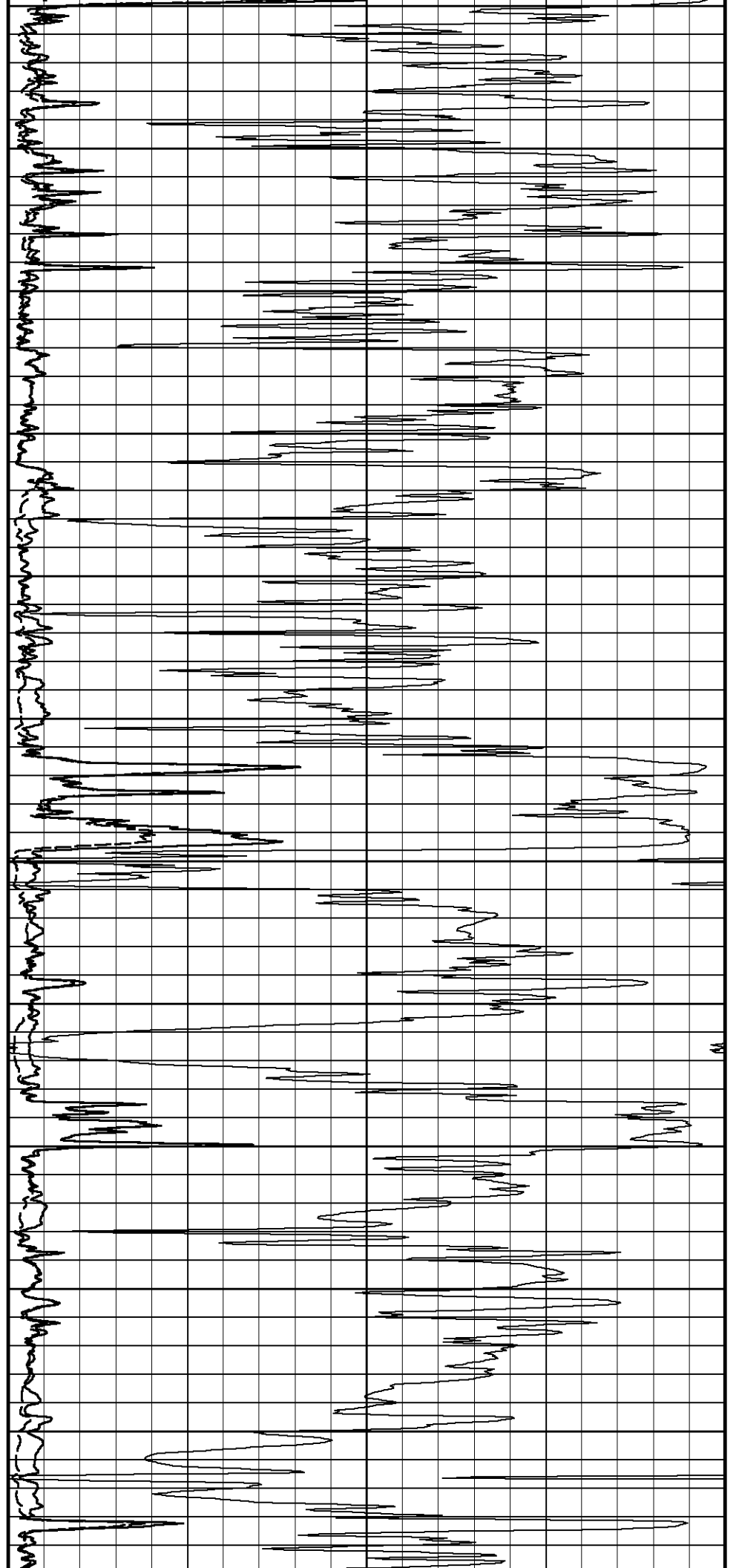
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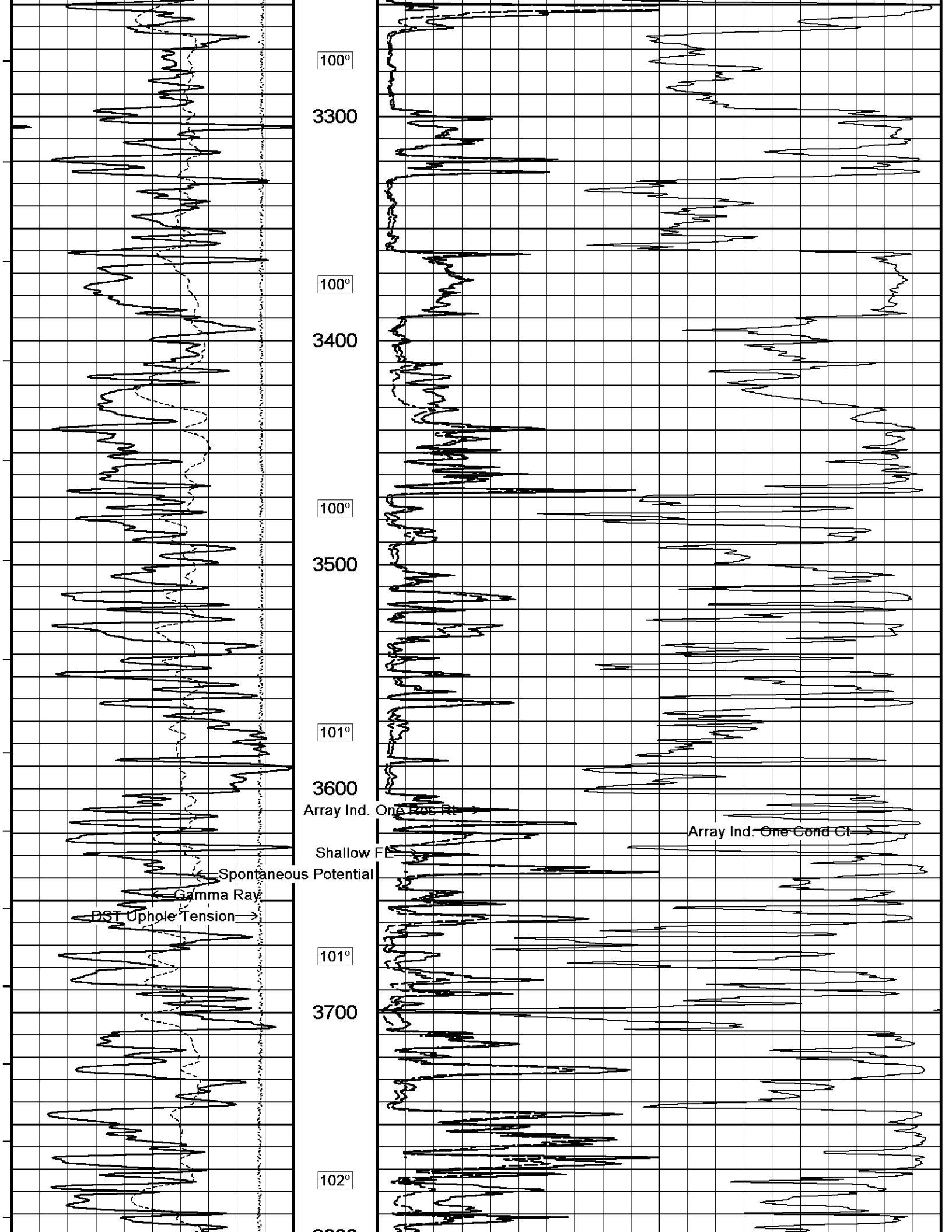
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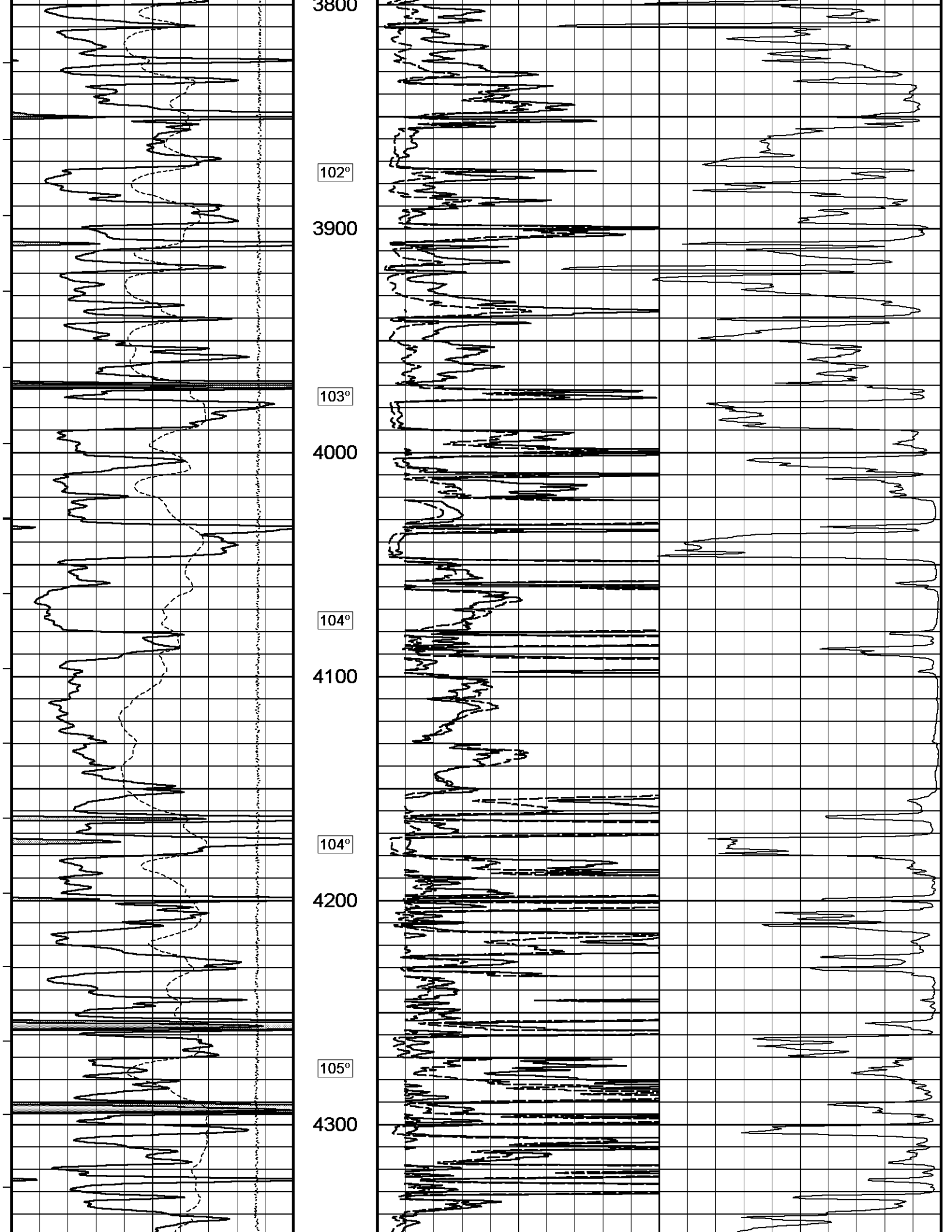
3100

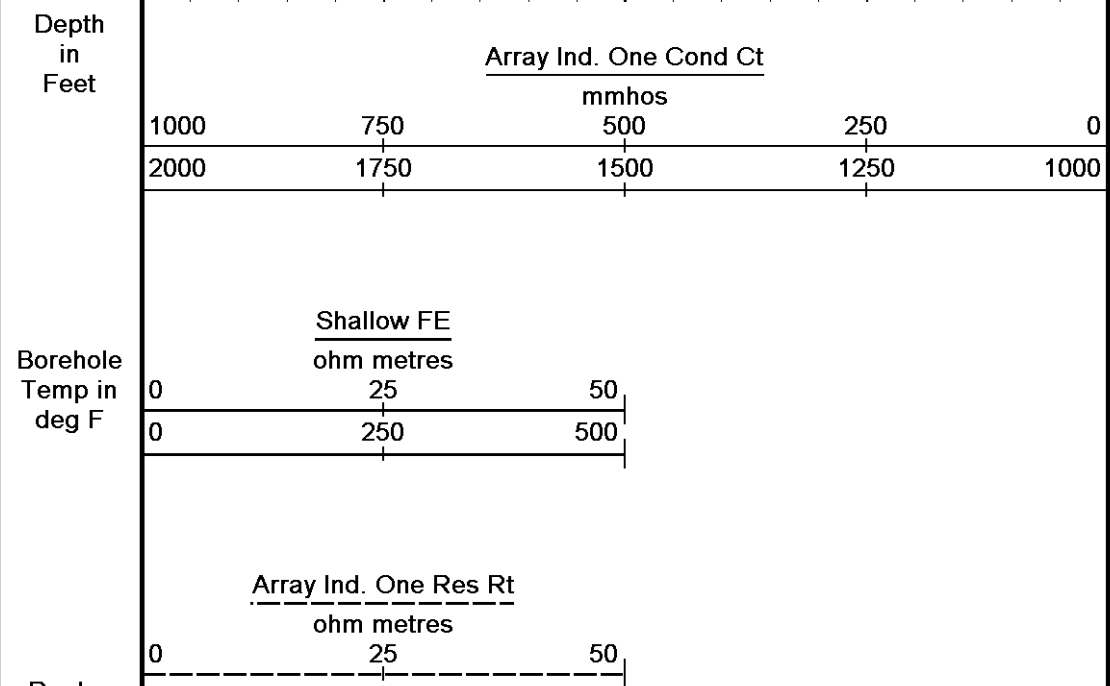
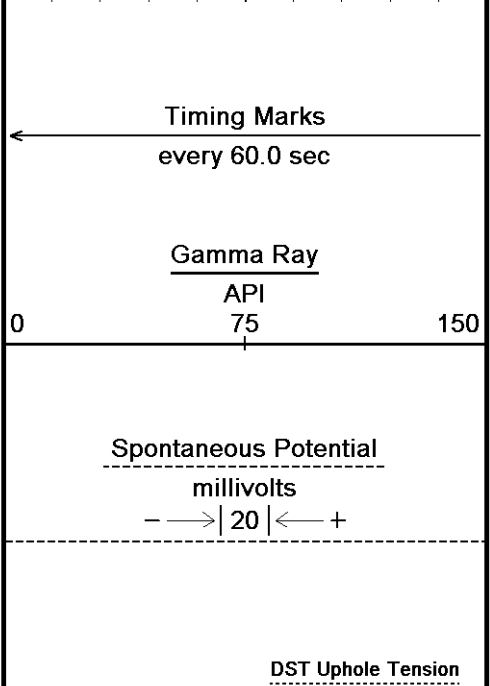
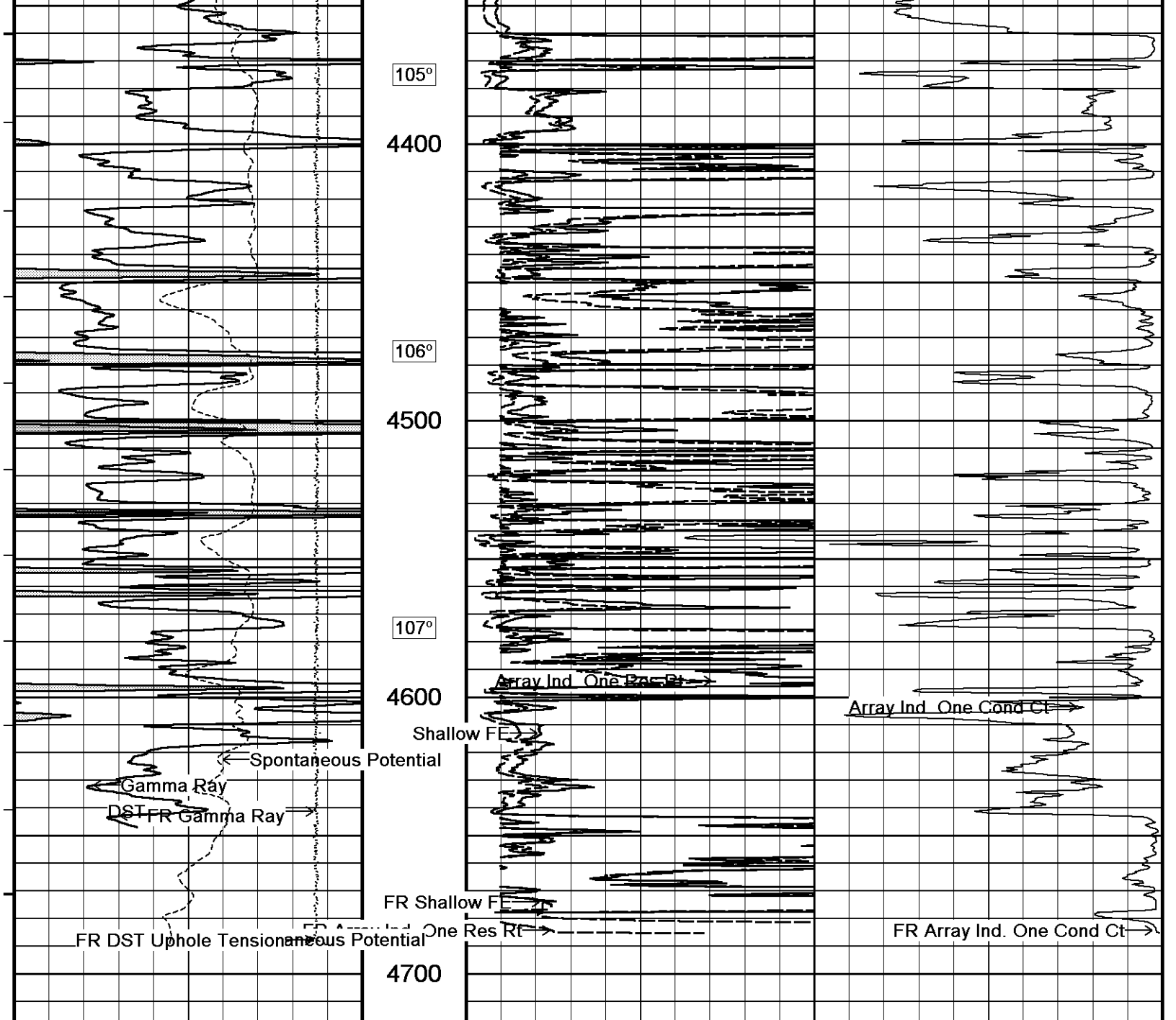
99°

3200









5000 pounds 0

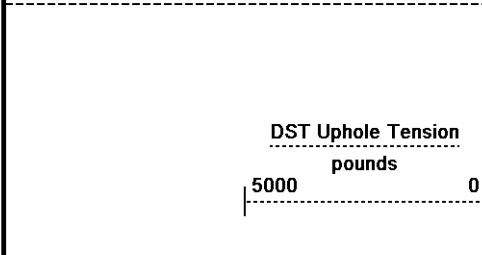
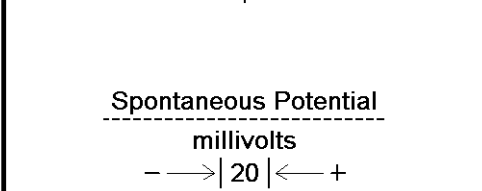
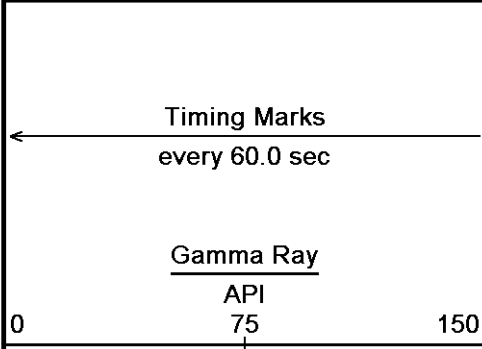
Replay Scale 1:600

Depth Based Data - Maximum Sampling Increment 10.0cm  
Plotted on 20-APR-2011 10:25  
Filename: C:\Users\SSTRIB~1\AppData\Local\Temp\Weatherford PreView0\Hund #1-9\_002.dta  
Recorded on 01-JAN-2003 06:05  
System Versions: Logged with 11.03.2789 Plotted with 11.02.2164

2 INCH MAIN PASS

5 INCH MAIN PASS

Depth Based Data - Maximum Sampling Increment 10.0cm  
Plotted on 20-APR-2011 10:25  
Filename: C:\Users\SSTRIB~1\AppData\Local\Temp\Weatherford PreView0\Hund #1-9\_002.dta  
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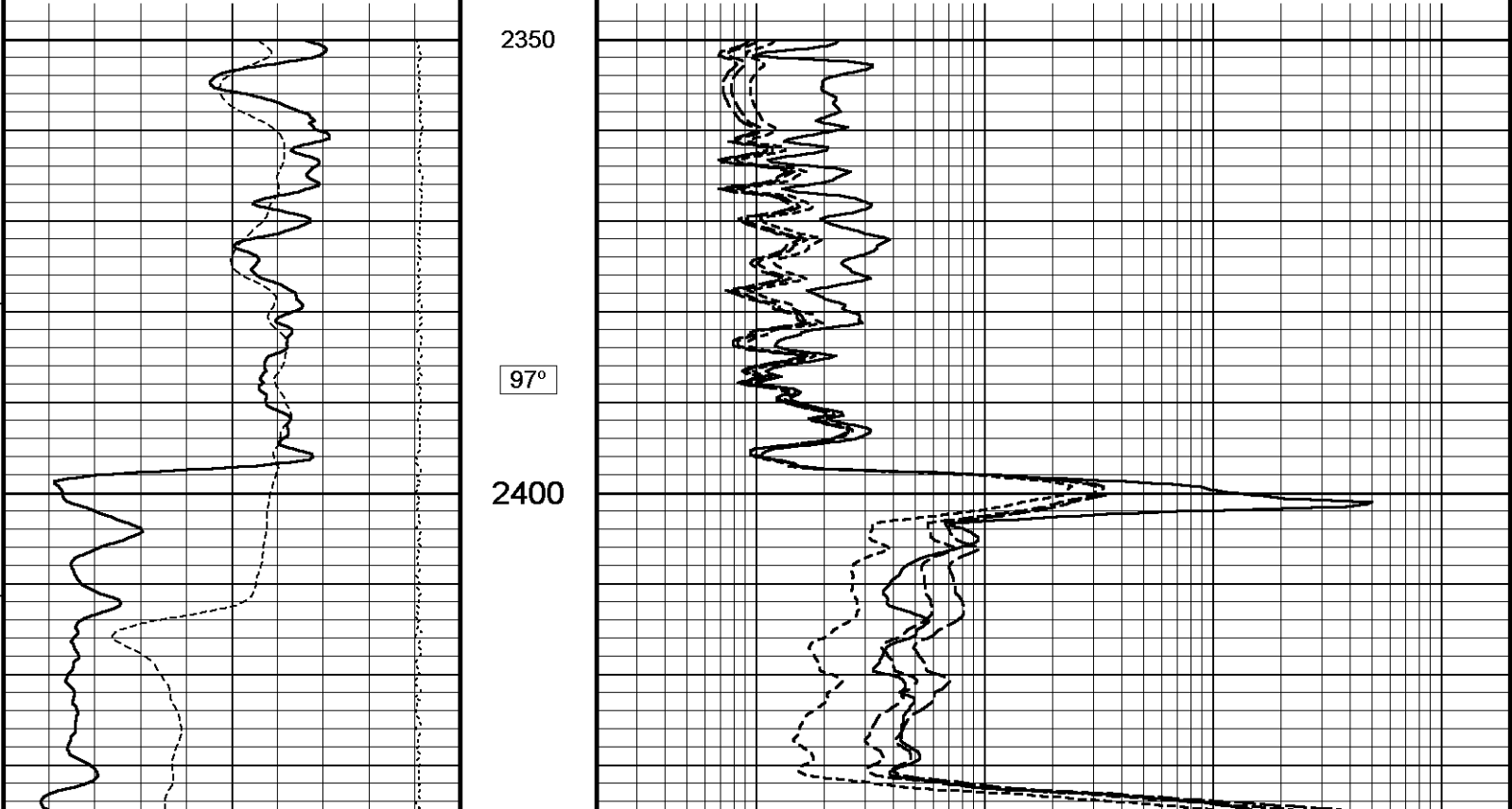
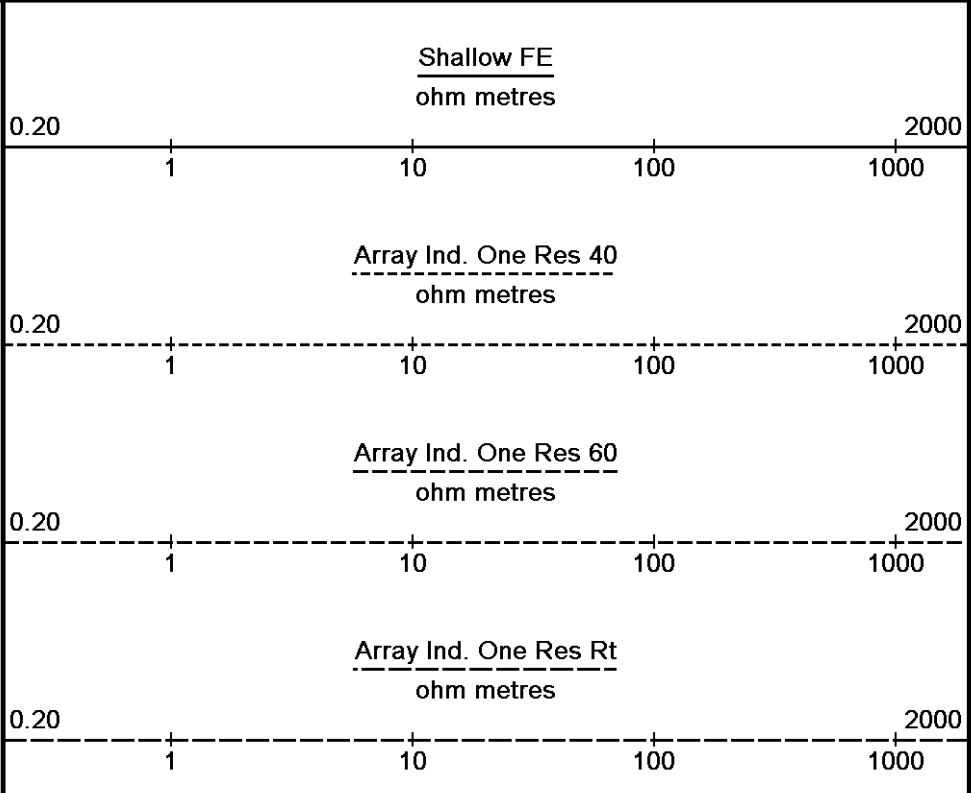


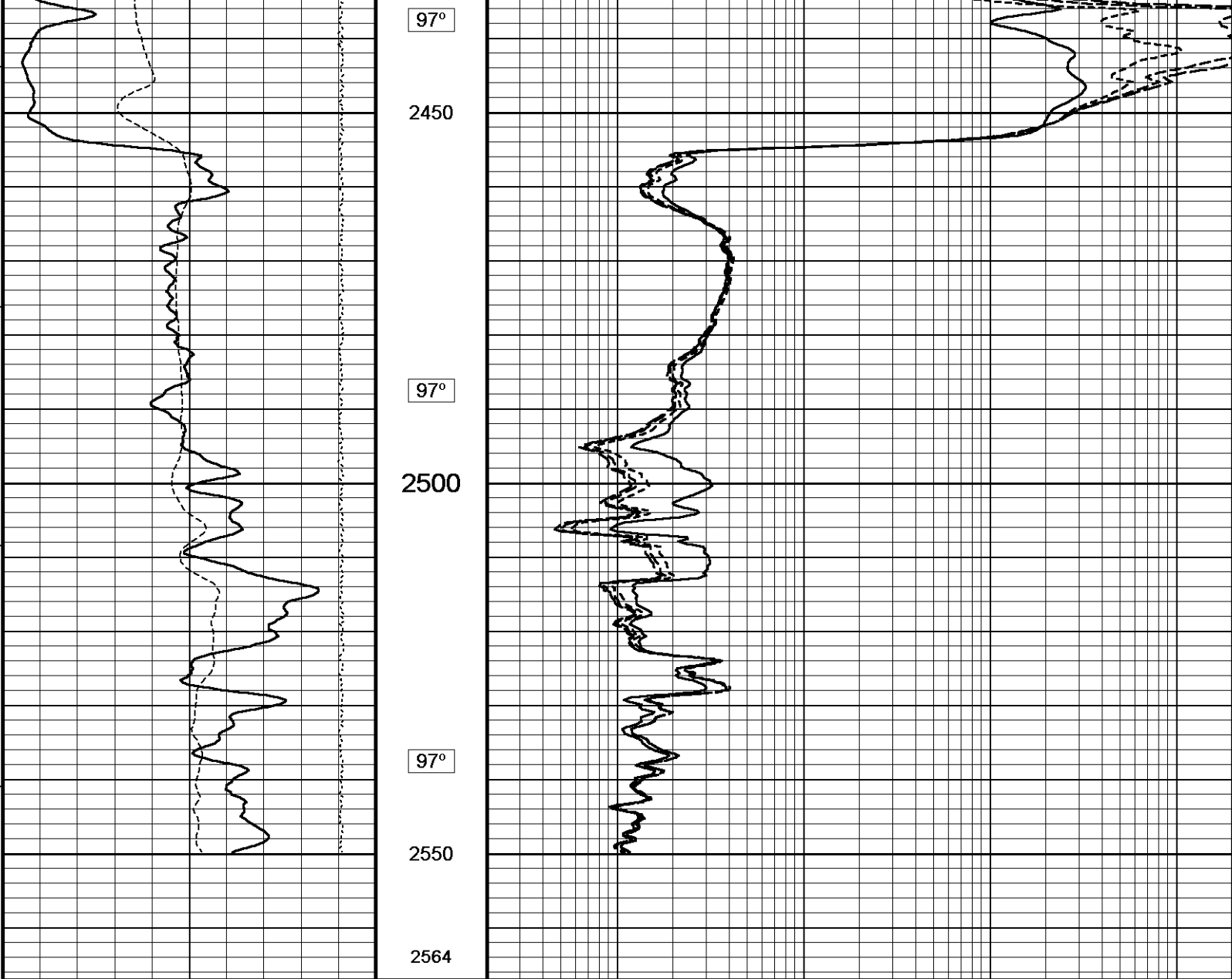
Depth in Feet

Borehole Temp in deg F

Replay Scale 1:240

2350  
97°  
2400



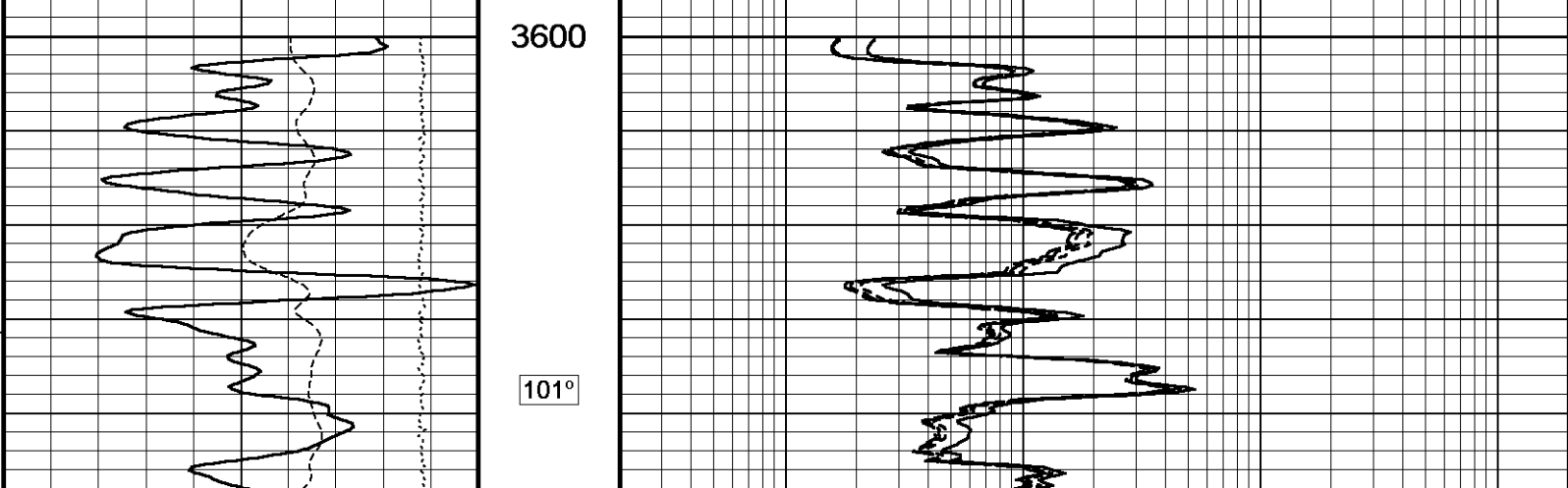


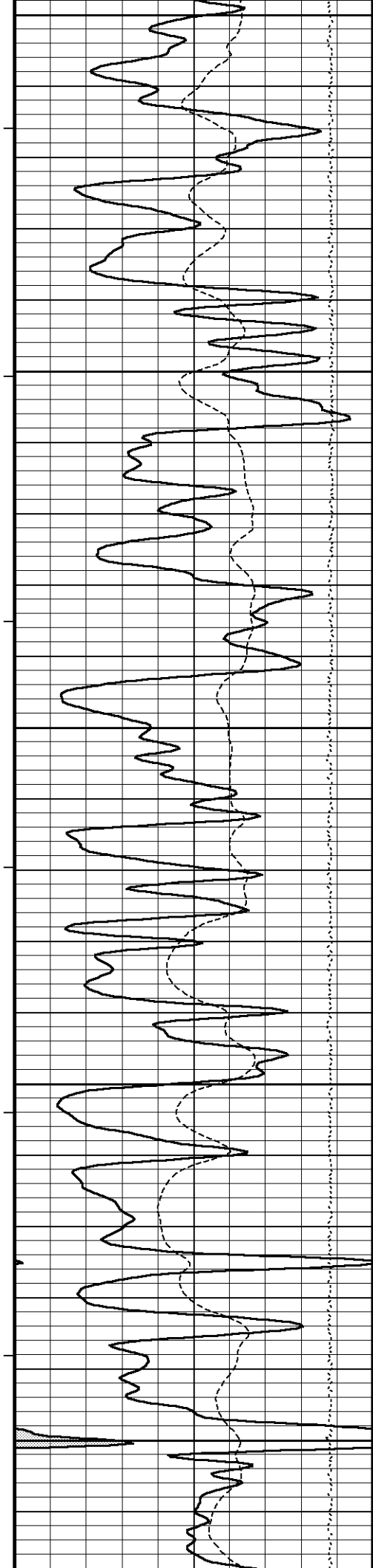
Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 20-APR-2011 10:25  
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 System Versions: Logged with 11.03.2789 Plotted with 11.02.2164

↑ **5 INCH MAIN PASS** ↑

↓ **5 INCH MAIN PASS** ↓

Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 20-APR-2011 10:25  
 Filename: C:\Users\SSTRIB~1\AppData\Local\Temp\Weatherford PreView0\Hund #1-9\_002.dta Recorded on 01-JAN-2003 06:05  
 System Versions: Logged with 11.03.2789 Plotted with 11.02.2164





3650

101°

3700

102°

3750

102°

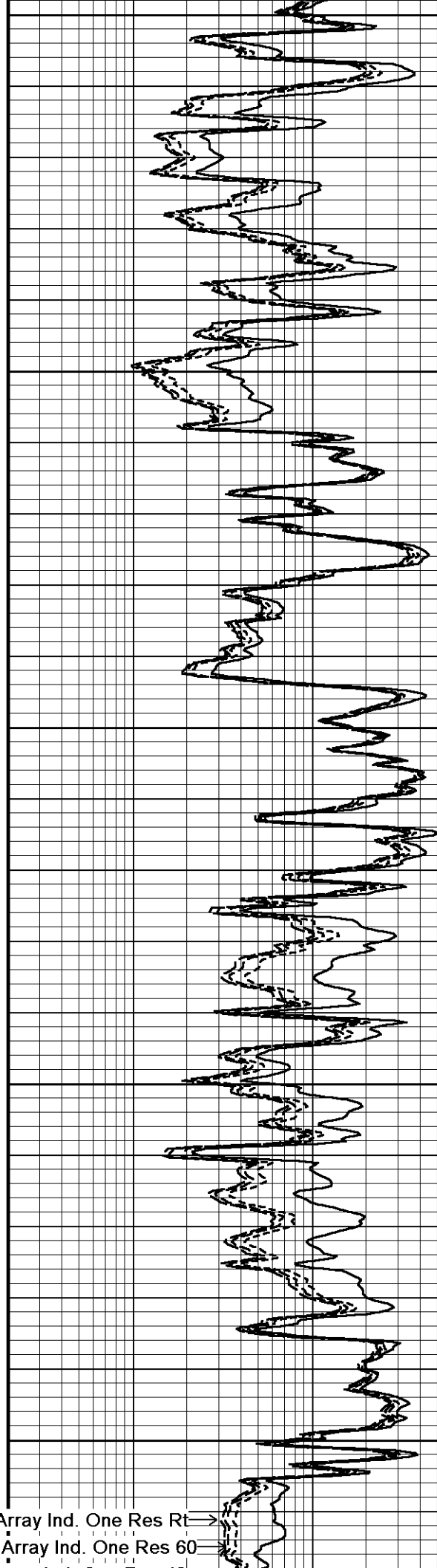
3800

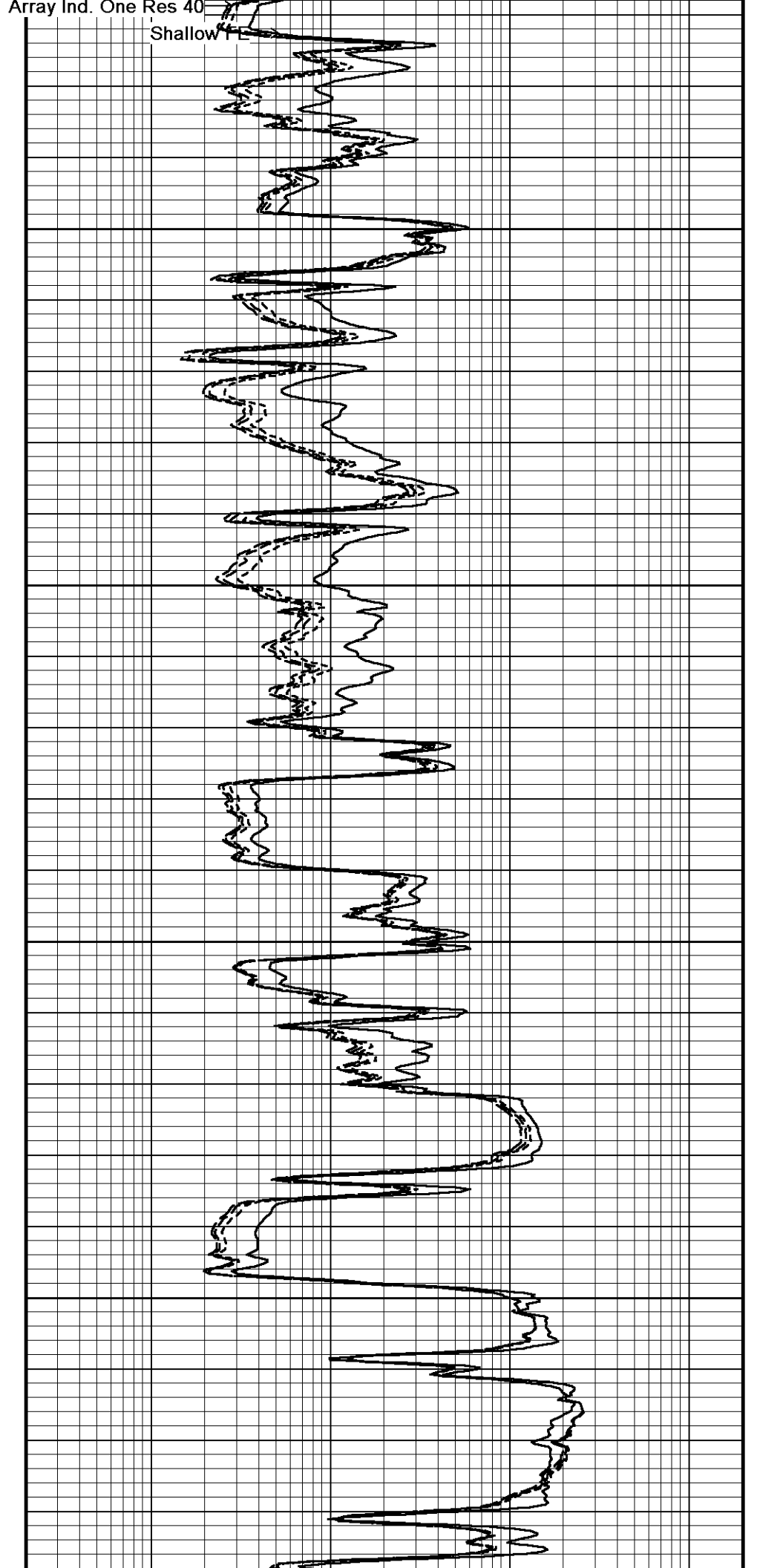
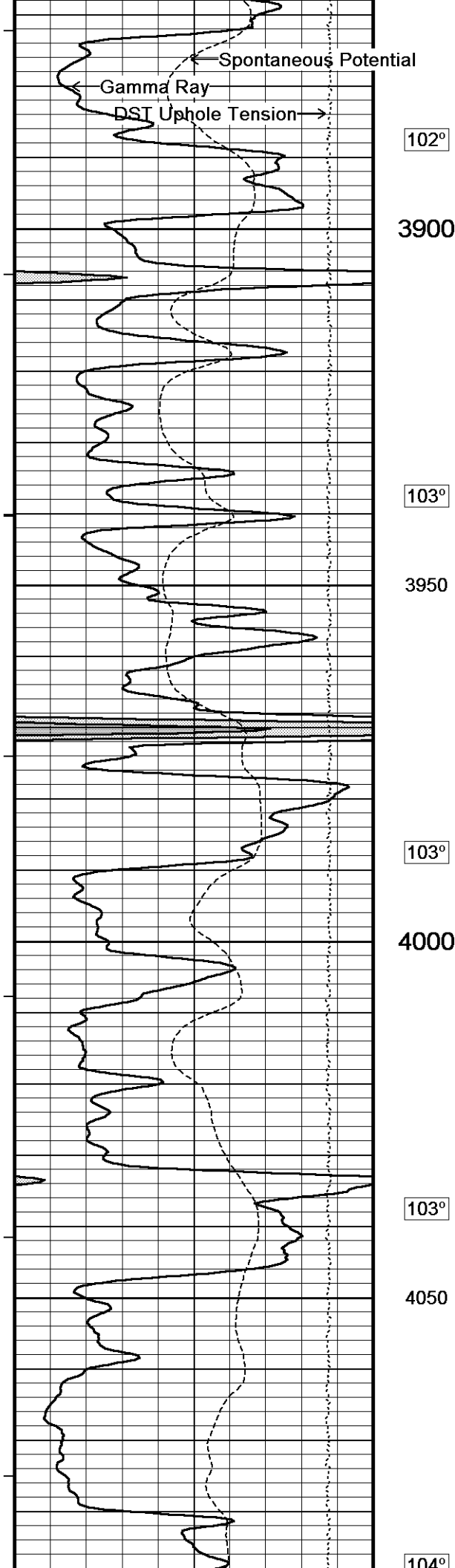
102°

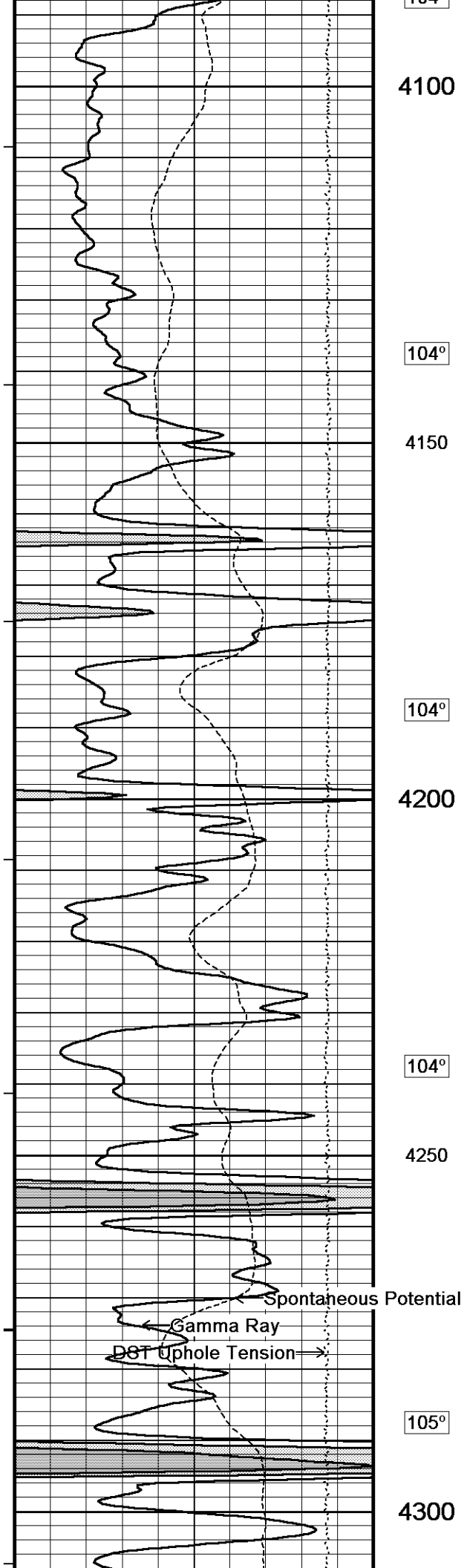
3850

Array Ind. One Res Rt →

Array Ind. One Res 60 →







4100

104°

4150

104°

4200

104°

4250

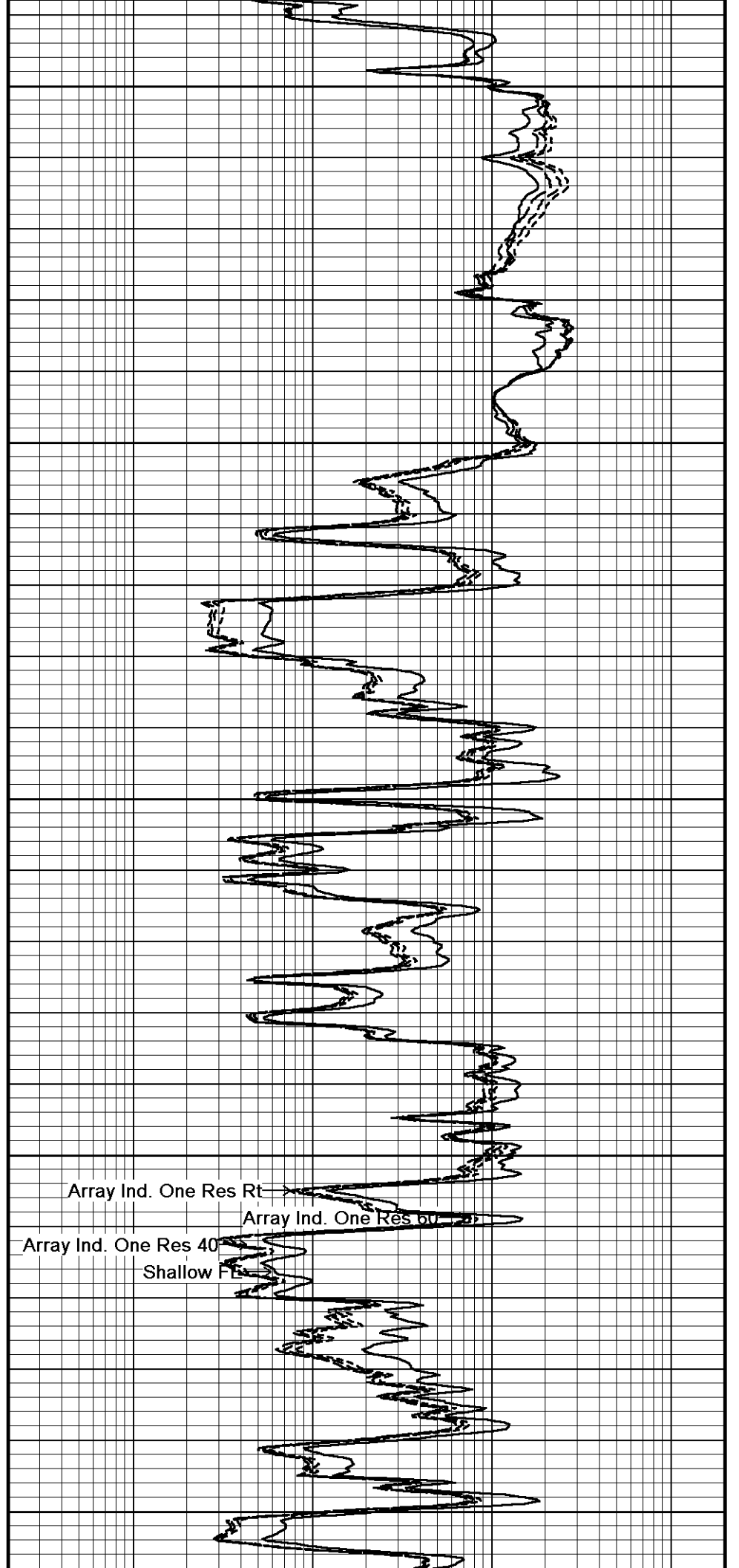
Spontaneous Potential

Gamma Ray

DST Uphole Tension

105°

4300

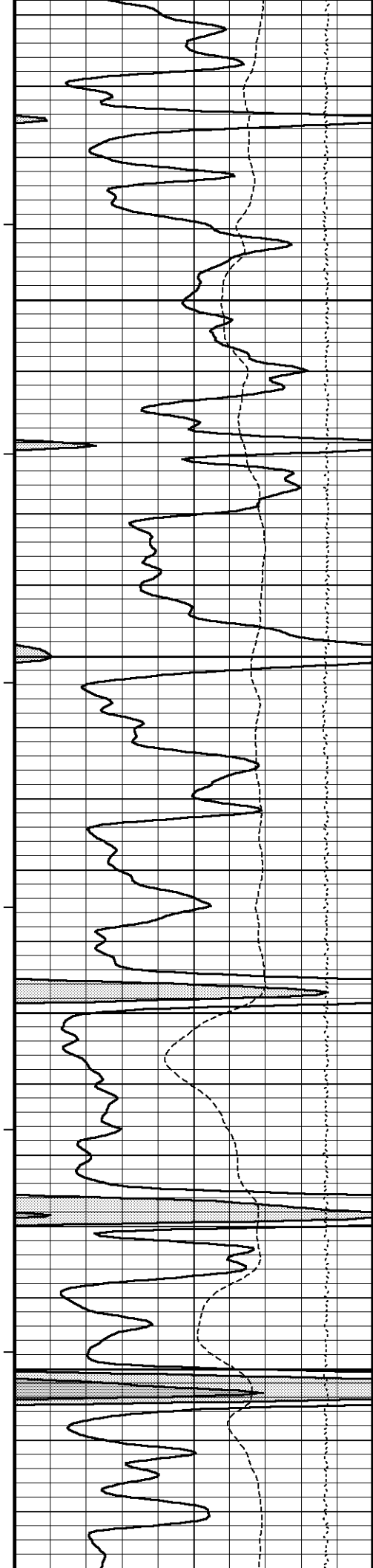


Array Ind. One Res Rt

Array Ind. One Res 60

Array Ind. One Res 40

Shallow F



105°

4350

105°

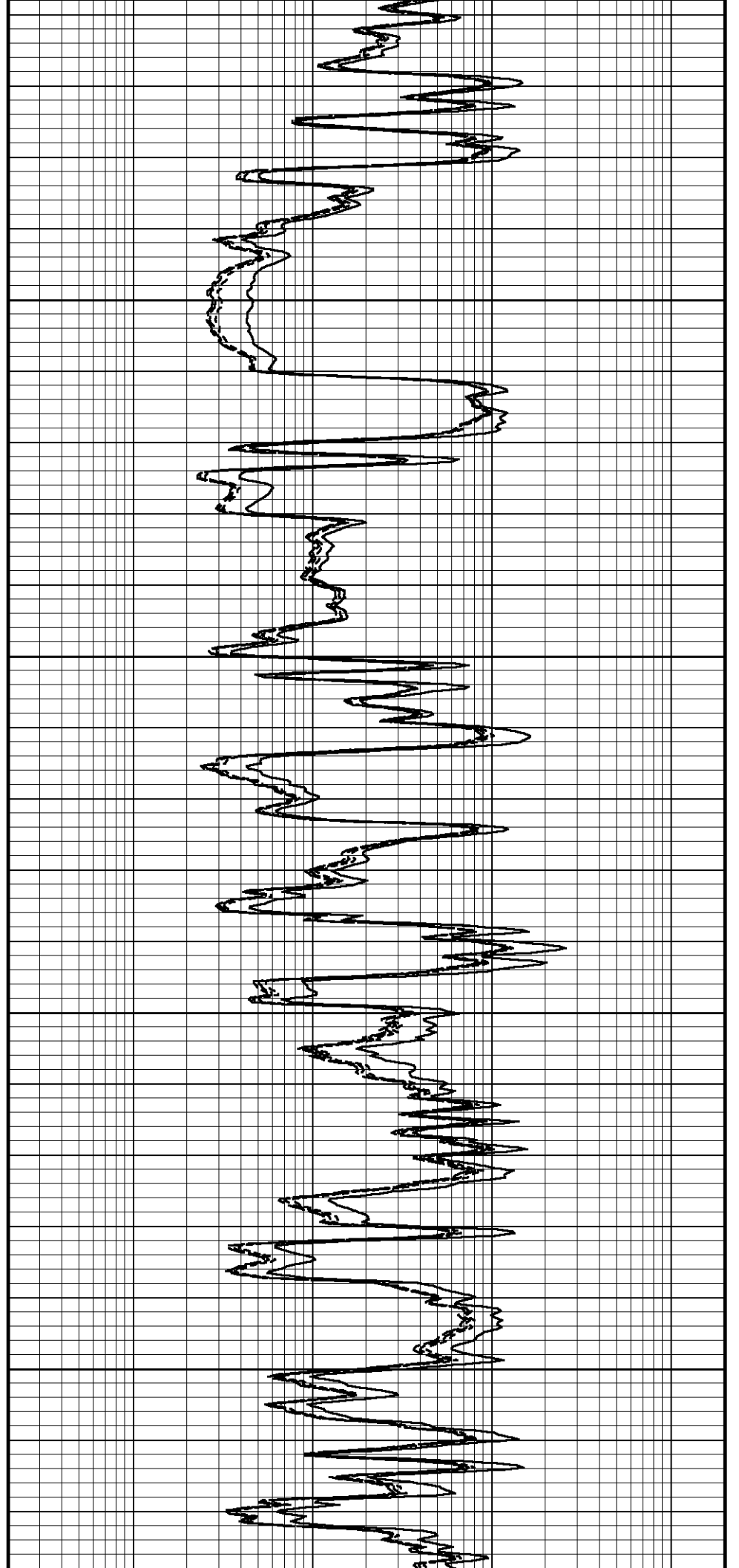
4400

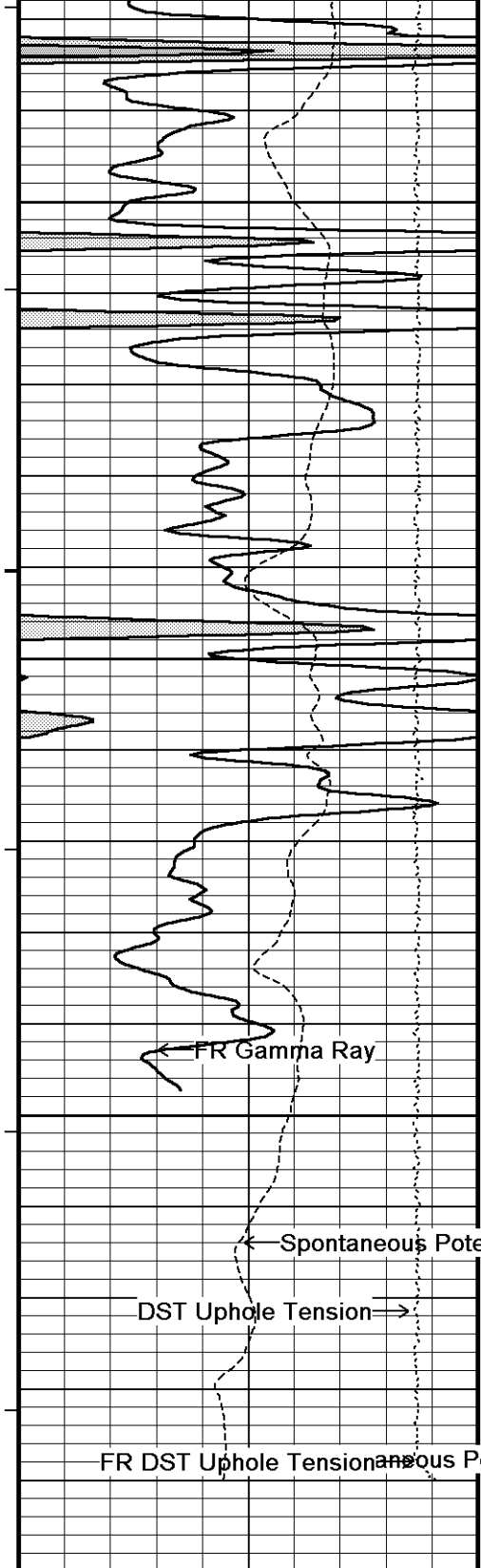
106°

4450

106°

4500





106°

4550

108°

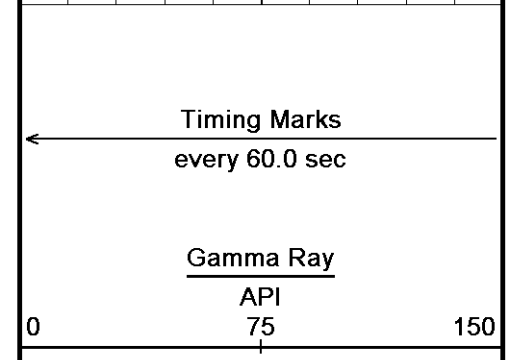
4600

108°

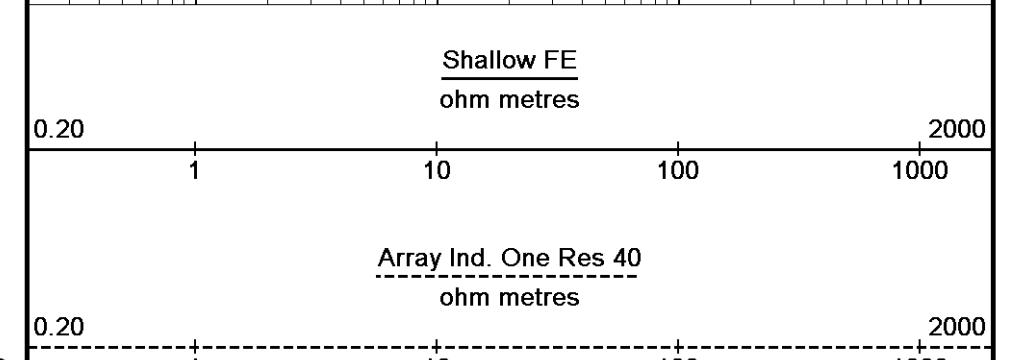
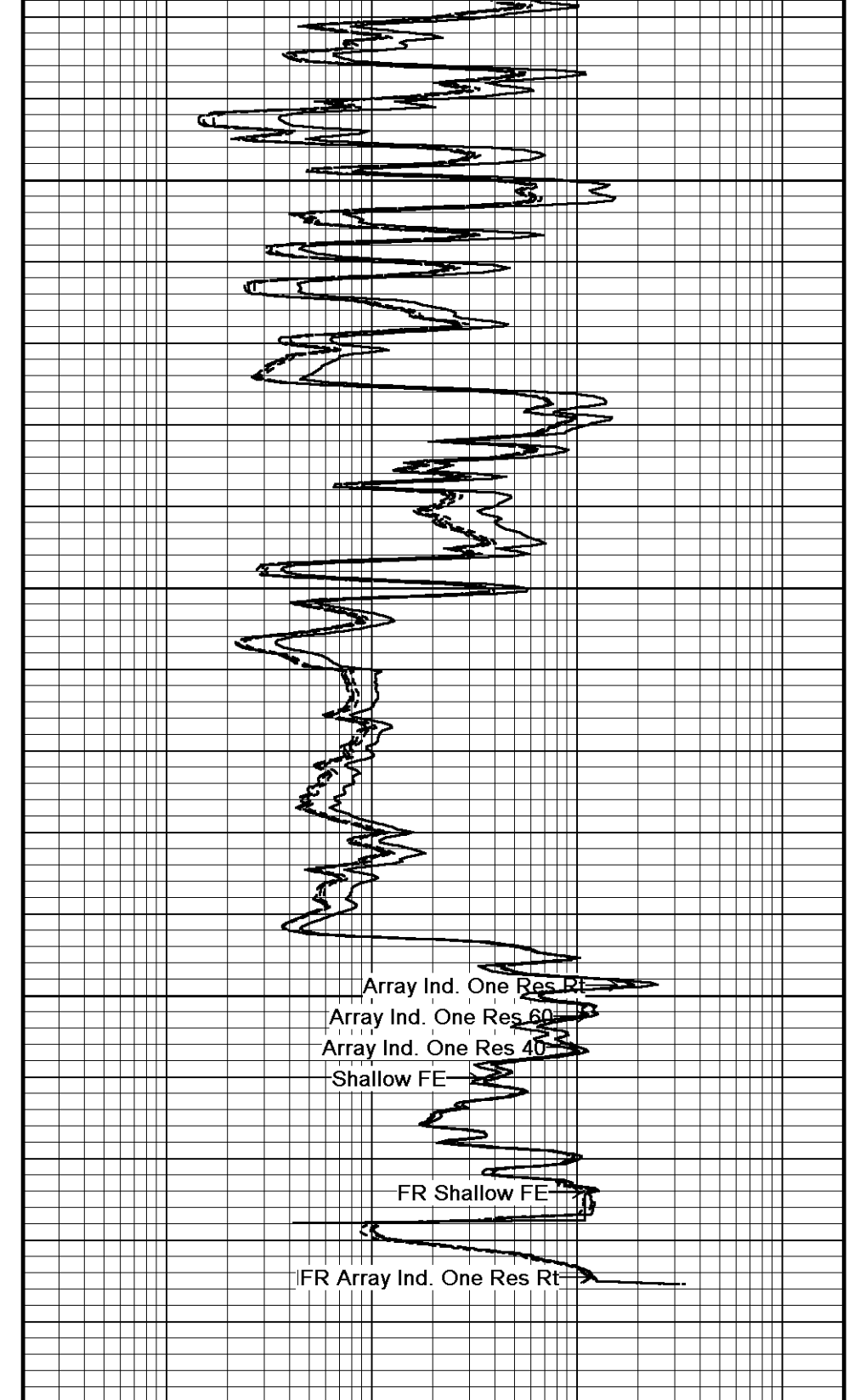
4650

1700

Depth in Feet

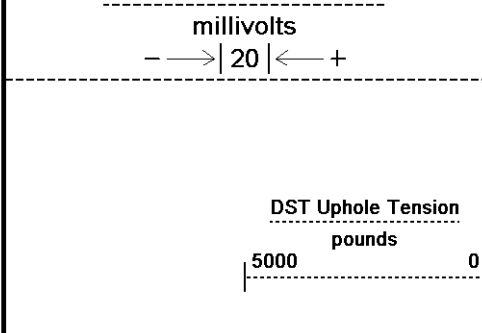


Borehole Temp in deg F

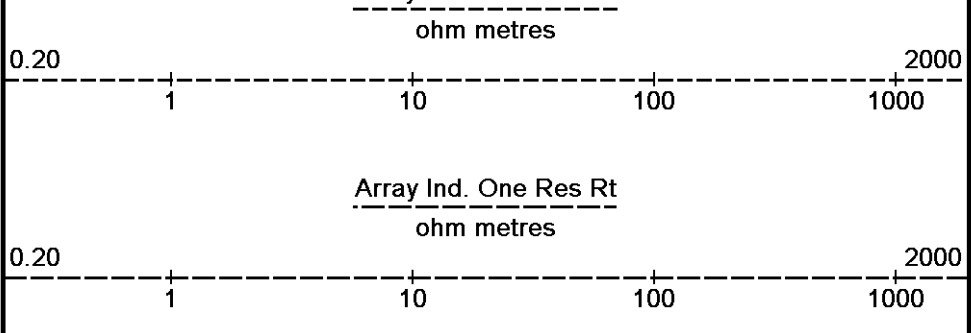


Spontaneous Potential

Array Ind. One Res 60

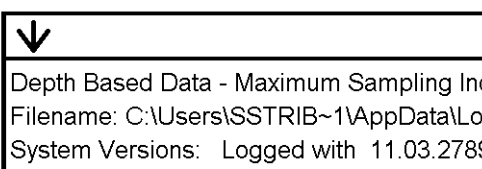


Replay  
Scale  
1:240

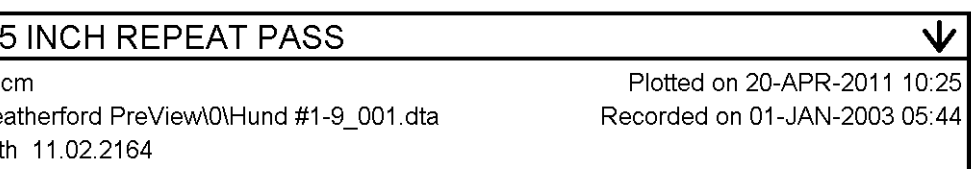


Depth Based Data - Maximum Sampling Increment 10.0cm  
 Filename: C:\Users\SSTRIB~1\AppData\Local\Temp\Weatherford PreView0\Hund #1-9\_002.dta  
 System Versions: Logged with 11.03.2789 Plotted with 11.02.2164  
 Plotted on 20-APR-2011 10:25  
 Recorded on 01-JAN-2003 06:05

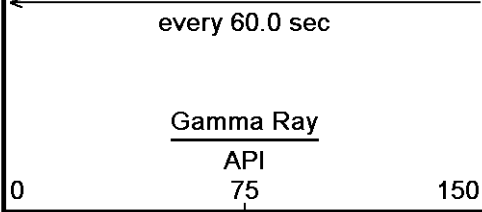
↑ 5 INCH MAIN PASS ↑



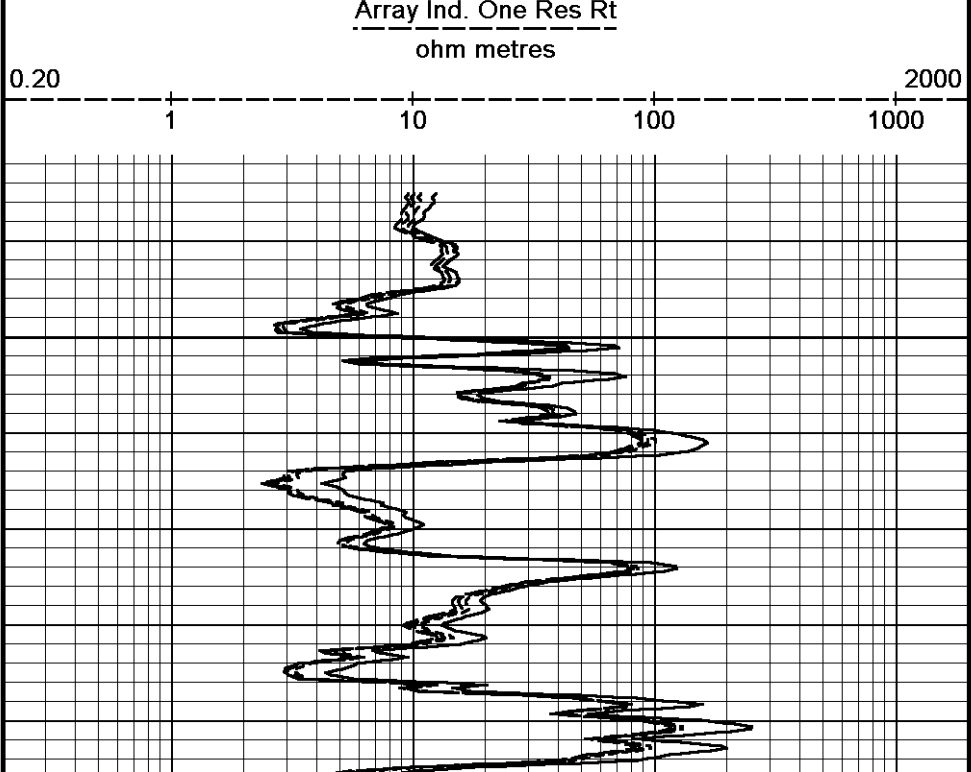
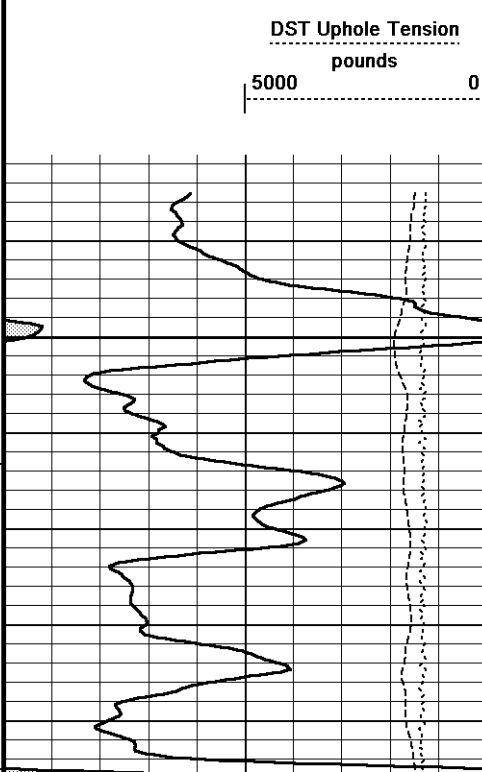
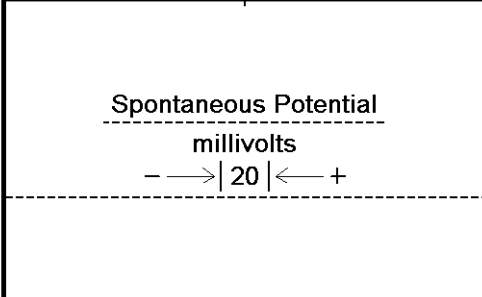
Depth  
in  
Feet



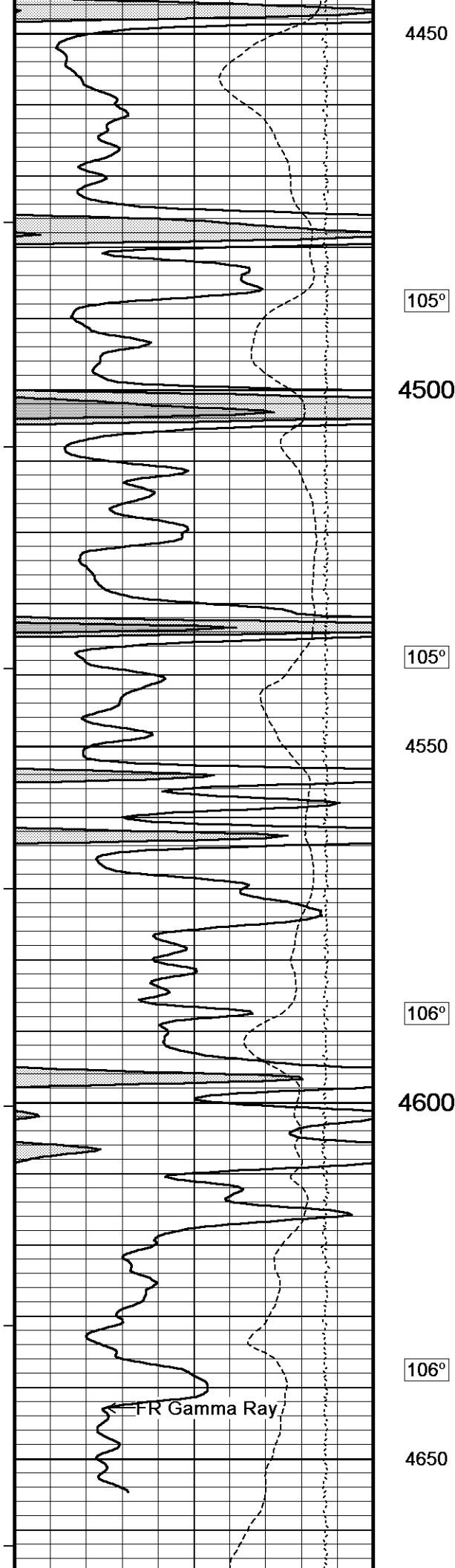
Replay  
Scale  
1:240



4384  
4400



105°



4450

105°

4500

105°

4550

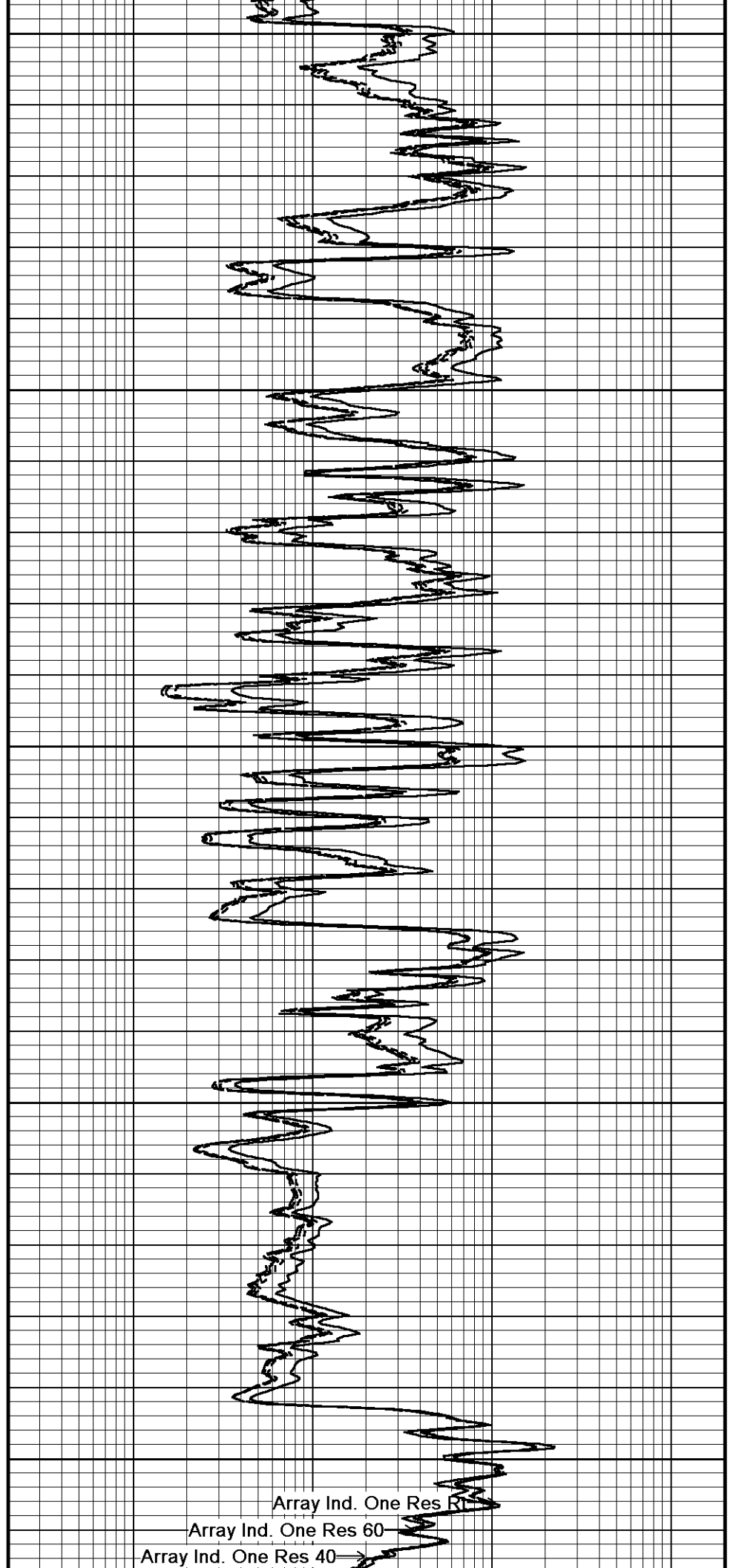
106°

4600

106°

4650

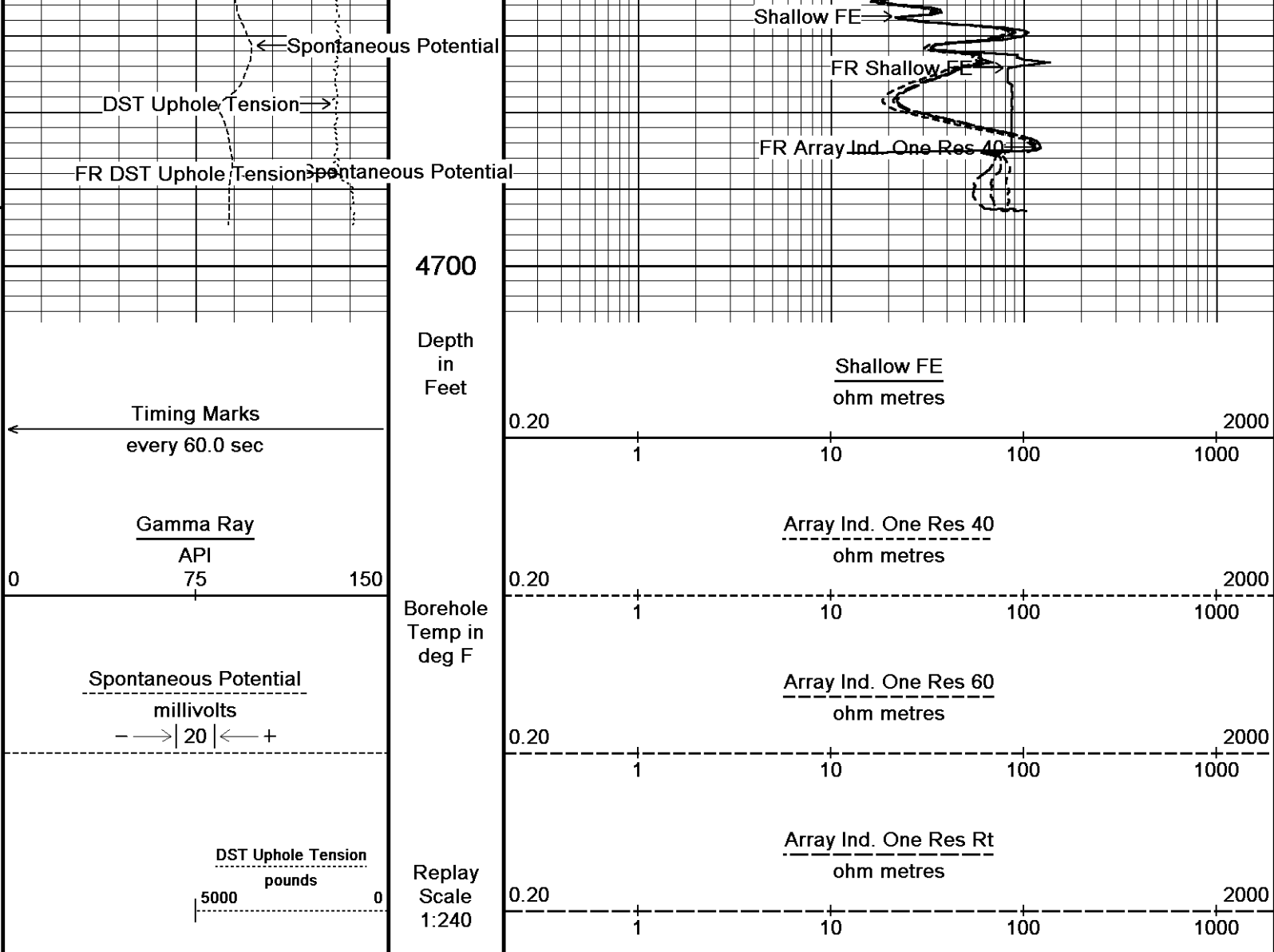
FR Gamma Ray



Array Ind. One Res R

Array Ind. One Res 60

Array Ind. One Res 40



Depth Based Data - Maximum Sampling Increment 10.0cm  
 Plotted on 20-APR-2011 10:25  
 Filename: C:\Users\SSTRIB~1\AppData\Local\Temp\Weatherford PreView\0\Hund #1-9\_001.dta  
 Recorded on 01-JAN-2003 05:44  
 System Versions: Logged with 11.03.2789 Plotted with 11.02.2164

5 INCH REPEAT PASS

### BEFORE SURVEY CALIBRATION

C:\Users\SSTRIB~1\AppData\Local\Temp\Weatherford PreView\0\Hund #1-9.dta

General Constants All 000 Last Edited on 01-JAN-2003,03:41

**General Parameters**

Mud Resistivity	0.840	ohm-metres
Mud Resistivity Temperature	78.000	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	Limestone Density Por.
Resistivity used	Array Ind. One Res Rt
RWA Constant A	1.000
RWA Constant M	2.000

Micro Normal and Micro Inverse Calibration MML-A 9

Base Calibration on 17-JAN-2011 13:45  
Field Check on 01-JAN-2003 00:22

Base Calibration

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

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

Micro Normal and Micro Inverse Constants MML-A 9

Last Edited on 17-FEB-2011,21:07

Pad Type	8-12 in Soft Rubber Inflatable 006-9011-159		
Micro Normal K Factor	0.5110		
Micro Inverse K Factor	0.3380		
Standoff Offset	N/A	inches	

Caliper Calibration MML-A 9

Base Calibration on 17-JAN-2011 13:36  
Field Calibration on 01-JAN-2003 00:20

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

Field Calibration		Measured Caliper (in)	Actual Caliper (in)
		6.12	5.98

Neutron Calibration MDN-A.B 65

Base Calibration on 17-JAN-2011 15:12  
Field Check on 01-JAN-2003 00:35

Base Calibration		Measured		Calibrated (cps)	
	Near	Far	Near	Far	
	3079	97	3714	110	
Ratio	31.797		33.764		

Field Calibrator at Base		Calibrated (cps)	
		1654	2338
Ratio		0.708	

Field Check		Calibrated (cps)	
		1656	2349
Ratio		0.705	

Neutron Constants MDN-A.B 65

Last Edited on 01-JAN-2003,03:42

Neutron Source Id	757		
Neutron Jig Number	5824NE		
Epithermal Neutron	No		
Caliper Source for Processing	Density Caliper		
Stand-off	0.00	inches	
Mud Density	1.09	gm/cc	
Limestone Sigma	7.10	cu	
Sandstone Sigma	4.26	cu	
Dolomite Sigma	4.70	cu	
Formation Pressure Source	Constant Value		
Formation Pressure	0.00	kpsi	
Temperature Source	MCG External Temperature		
Temperature	N/A	degrees F	
Mud Salinity	0.00	kppm	
Formation Fluid Salinity Source	Constant Value		
Formation Fluid Salinity	0.00	kppm	
Barite Mud Correction	Not Applied		

FE Calibration MFE-A.A 55

Base Calibration on 17-JAN-2011 13:58  
Field Check on 01-JAN-2003 00:18

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

FE Constants MFE-A.A 55		Last Edited on 01-JAN-2003,03:42	
Running Mode	No Sleeve		
MFE K Factor	0.1268		
Caliper Source for FE correction	Density Caliper		
Caliper Value for FE correction	N/A	inches	
Rm Source for FE correction	Temperature Corr		
Temp. for Rm Corr.	MCG External Temperature		
Stand-off	0.5	inches	

High Resolution Temperature Calibration MAI-A.A 178			Field Calibration on 28-MAR-2010,00:50	
	Measured	Calibrated(Deg F)		
Lower	1.00	33.80		
Upper	11.00	51.80		

High Resolution Temperature Constants MAI-A.A 178		Last Edited on	
Pre-filter Length	11		

Induction Calibration MAI-A.A 178			Base Calibration on 17-JAN-2011,15:37			Field Check on 01-JAN-2003 00:17		
Base Calibration								
Test Loop Calibration			Measured		Calibrated (mmho/m)			
Channel	Low	High	Low	High	Low	High	Low	High
1	17.6	484.7	9.3	966.2				
2	6.2	391.4	7.6	821.4				
3	4.0	264.5	5.2	566.0				
4	2.3	135.1	2.6	279.2				
Array Temperature	77.0		Deg F					
Channel	Base Check (mmho/m)			Field Check (mmho/m)				
	Low	High	Low	High	Low	High	Low	High
1	0.0	0.0	11.9	3762.8				
2	0.0	0.0	29.5	3466.5				
3	0.0	0.0	27.1	3014.8				
4	0.0	0.0	18.6	2063.9				
Deep	0.0	0.0	15.7	1995.9				
Medium	0.0	0.0	40.1	3957.0				
Shallow	0.0	0.0	45.4	5080.7				
Array Temperature	0.0		68.7		Deg F			

Induction Constants MAI-A.A 178			Last Edited on 01-JAN-2003,03:43		
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		
MDM1	0.0000	MDC1	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	

High Resolution Temperature Calibration MCG-B 34

Field Calibration on 19-OCT-2009,11:45

	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 9-NOV-2009,18:07

	Measured	Calibrated (mV)
Reference 1	107.7	100.0
Reference 2	-93.8	-100.0

Gamma Calibration MCG-B 34

Field Calibration on 01-JAN-2003 00:40

	Measured	Calibrated (API)
Background	51	35
Calibrator (Gross)	1111	760
Calibrator (Net)	1061	725

Gamma Constants MCG-B 34

Last Edited on 01-JAN-2003,05:14

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

Caliper Calibration MPD-B 64

Base Calibration on 17-JAN-2011 16:10

Field Calibration on 01-JAN-2003 00:24

Base Calibration	Measured	Calibrator Size (in)
Reading No		
1	14192	4.01
2	22208	5.96
3	30608	7.98
4	39216	9.95
5	48142	11.91
6	N/A	N/A

Field Calibration	Measured Caliper (in)	Actual Caliper (in)
	6.38	5.98

Photo Density Calibration MPD-B 64

Base Calibration on 17-FEB-2011 08:46

Field Check on 01-JAN-2003 00:29

Density Calibration	Measured		Calibrated (sdu)	
Base Calibration	Near	Far	Near	Far
Reference 1	50033	26441	59556	30836
Reference 2	20539	2561	24941	2541

Field Check at Base

1112.6 1367.3

Field Check

1110.2 1367.9

PE Calibration

Base Calibration

	WS	Measured WH	Ratio	Calibrated Ratio
Background	200	995		
Reference 1	18927	49861	0.383	0.371
Reference 2	5504	20415	0.273	0.272

Field Check at Base

200.4 995.2

Field Check

200.6 992.5

Density Constants MPD-B 64

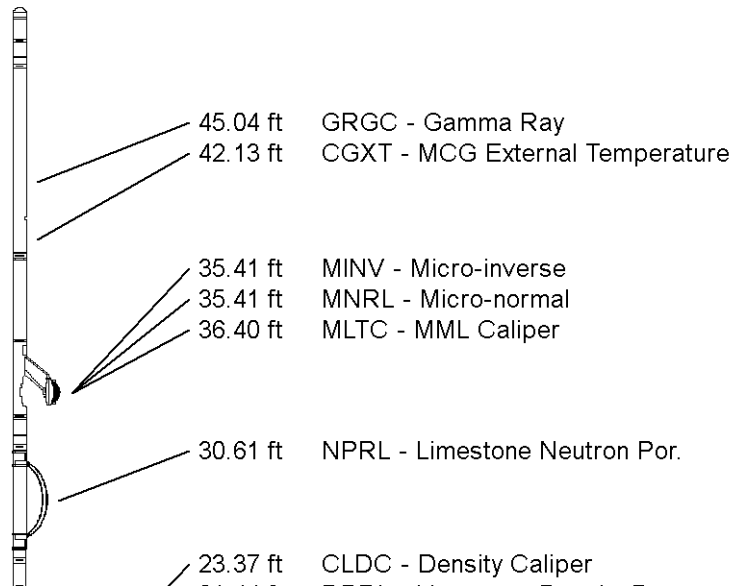
Last Edited on 01-JAN-2003,03:42

Density Source Id	254	
Nylon Calibrator Number	DNCE695	
Aluminium Calibrator Number	DACD698	
Density Shoe Profile	4 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:\Users\SSTRIB~1\AppData\Local\Temp\Weatherford PreView\0\Hund #1-9.dta

- MCB-A 11B Tension Cablehead  
MCB-A 1 LG: 2.18 ft WT: 19.8 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 9 LG: 7.97 ft WT: 81.6 lb OD: 2.24 in
- Compact Neutron  
MDN-A.B 65 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in
- Compact Density/Caliper



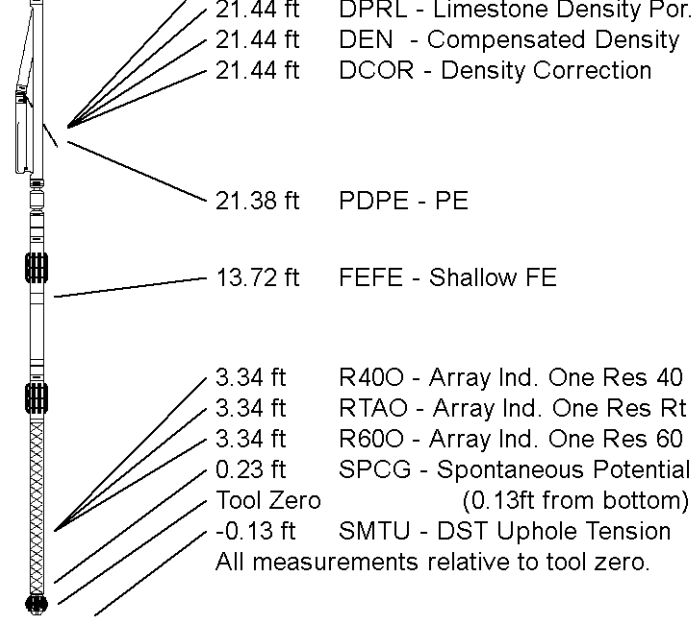
MPD-B LG: 6.59 ft WT: 29.0 lb OD: 2.24 in

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

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

Compact Induction  
MAI-A.A 178 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 52.50 ft Weight: 427.7 lb



**COMPANY** GRAND MESA OPERATING COMPANY  
**WELL** HUND #1-9  
**FIELD** WILDCAT  
**PROVINCE/COUNTY** GOVE  
**COUNTRY/STATE** U.S.A./KANSAS

Elevation Kelly Bushing	2951.00	feet	First Reading	4685.00	feet
Elevation Drill Floor	2950.00	feet	Depth Driller	4690.00	feet
Elevation Ground Level	2946.00	feet	Depth Logger	4688.00	feet



**Weatherford**<sup>®</sup>

**ARRAY INDUCTION  
SHALLOW FOCUSED  
ELECTRIC LOG**



<b>Weatherford</b>		<b>ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG</b>	
COMPANY: GRAND MESA OPERATING COMPANY WELL: HUND #1-9 FIELD: WILDCAT PROVINCE/COUNTY: GOVE COUNTRY/STATE: U.S.A./KANSAS LOCATION: 1482' FSL & 1873' FWL		Run Number: ONE Date: 28-FEB-2011 Run @ Measured Temp: 0.84 @ 78.0 Run @ Measured Temp: 0.67 @ 78.0 Run @ Measured Temp: 1.01 @ 78.0 Run @ Measured Temp: 0.62 @ 106.0 Time Since Circulation: 3 HOURS Max Recorded Temp: 106.00 Equipment Name: COMPACT Equipment Base: 13057 Recorded By: SHAWN NUTT Checked By: MACCLINARSTRONG S/O #009# 3929802	
Run Number: ONE Depth Driller: 4680.00 Depth Logger: 4688.00 First Reading: 4685.00 Last Reading: 217.00 Casing Driller: 222.00 Casing Logger: 217.00 Bore Size: 7.880 Hole Fluid Type: CHEMICAL Density/Viscosity: 9.10 lb/USg PH/Fluid Loss: 10.00 Sample Source: FLOWLINE Run @ Measured Temp: 0.84 @ 78.0 Run @ Measured Temp: 0.67 @ 78.0 Run @ Measured Temp: 1.01 @ 78.0 Run @ Measured Temp: 0.62 @ 106.0 Time Since Circulation: 3 HOURS Max Recorded Temp: 106.00 Equipment Name: COMPACT Equipment Base: 13057 Recorded By: SHAWN NUTT Checked By: MACCLINARSTRONG S/O #009# 3929802	Permanent Datum G.L. Elevation: 2946 feet Log Measured From: K.B. @ 5 FEET above Permanent Datum Drilling Measured From: K.B.	Elevation: 2951.00 OF: 2950.00 OL: 2946.00	

2 INCH MAIN PASS  
 Depth Based Data - Maximum Sampling Increment 10.0cm  
 Plotted on 20-APR-2011 10:25  
 Filename: C:\Users\SSSTRIB-1\AppData\Local\Temp\Weatherford PreView\01Hund #1-9\_002.dta  
 Recorded on 01-JAN-2003 06:05  
 System Versions: Logged with 11.03.2789 Plotted with 11.02.2164

Depth in Feet	Array Ind. One Cond Ct			
	mmhos			
1000	750	500	250	0
2000	1750	1500	1250	1000

Timing Marks every 60.0 sec

Gamma Ray

API 75 150

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

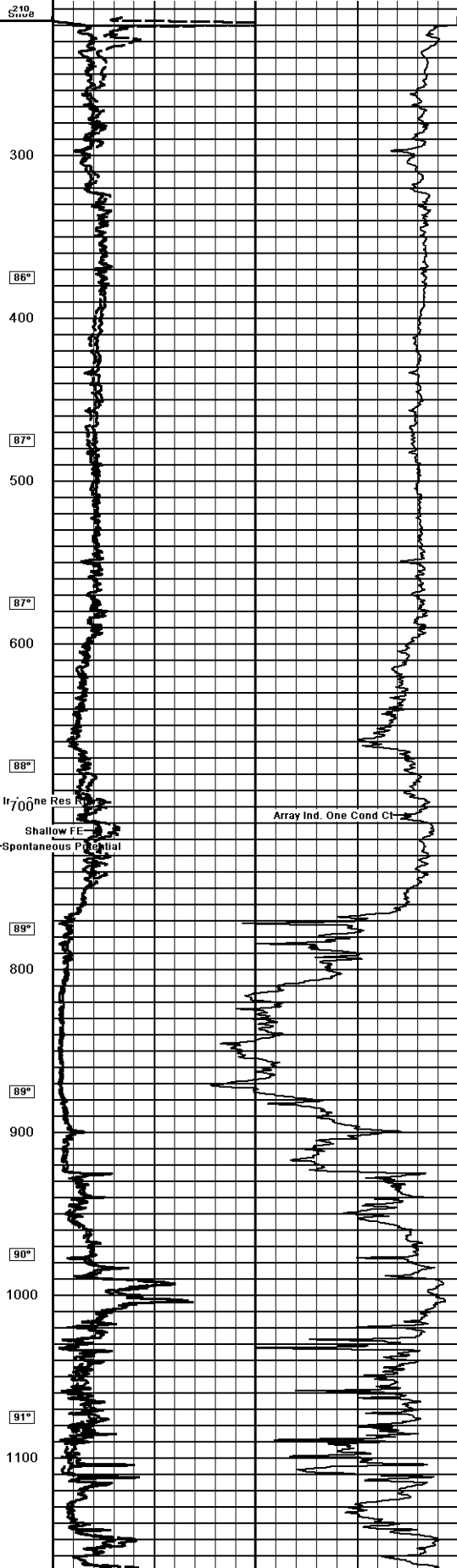
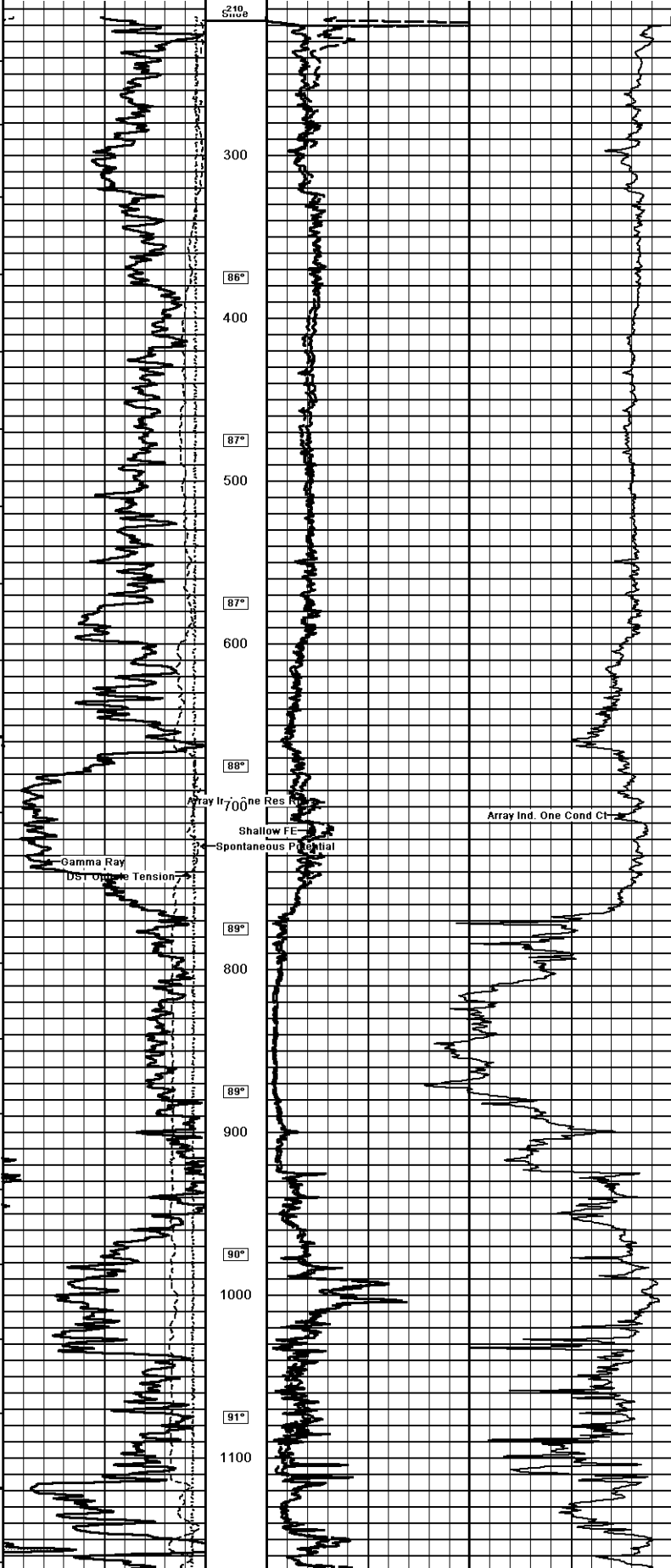
DST Uphole Tension  
pounds  
5000 0

Borehole Temp in deg F  
0 50  
0 250 500

Shallow FE  
ohm metres  
0 25 50  
0 250 500

Array Ind. One Res Rt  
ohm metres  
0 25 50  
0 250 500

Replay Scale 1:600



Array Ind. One Res Rt

Shallow FE

Array Ind. One Cond Ct

Spontaneous Potential

86°

87°

87°

88°

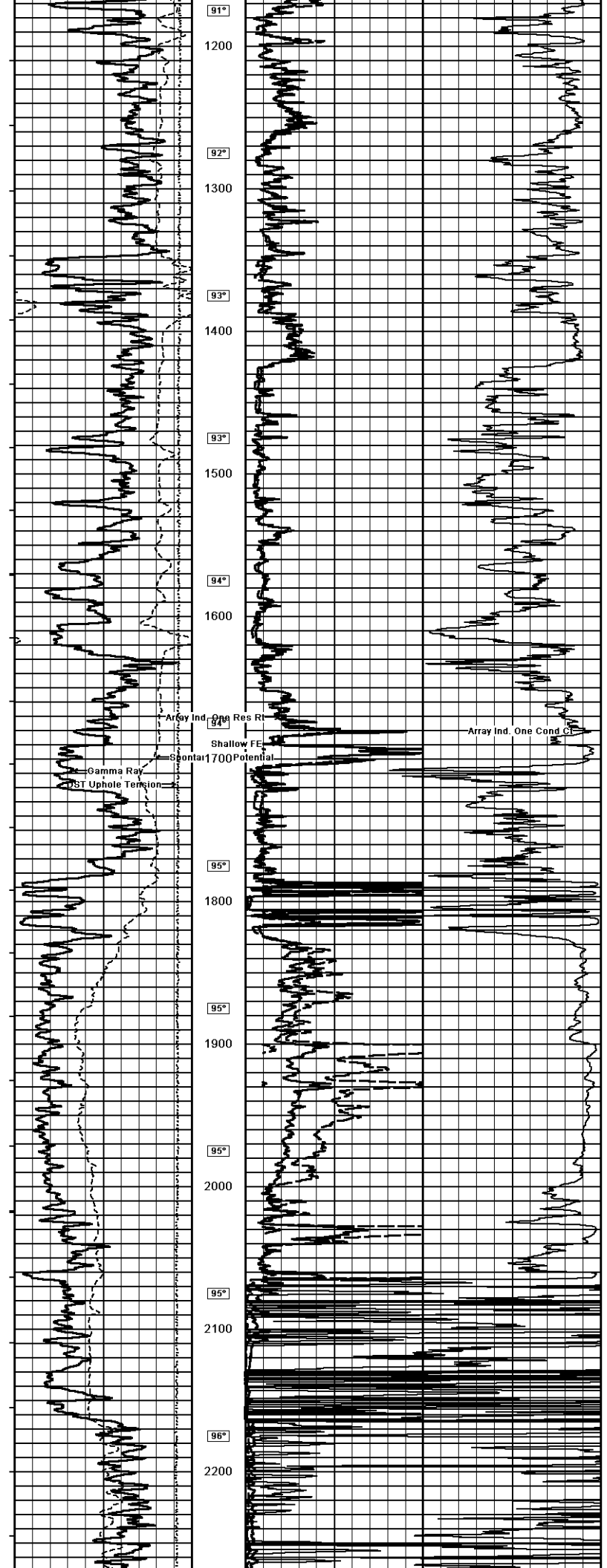
89°

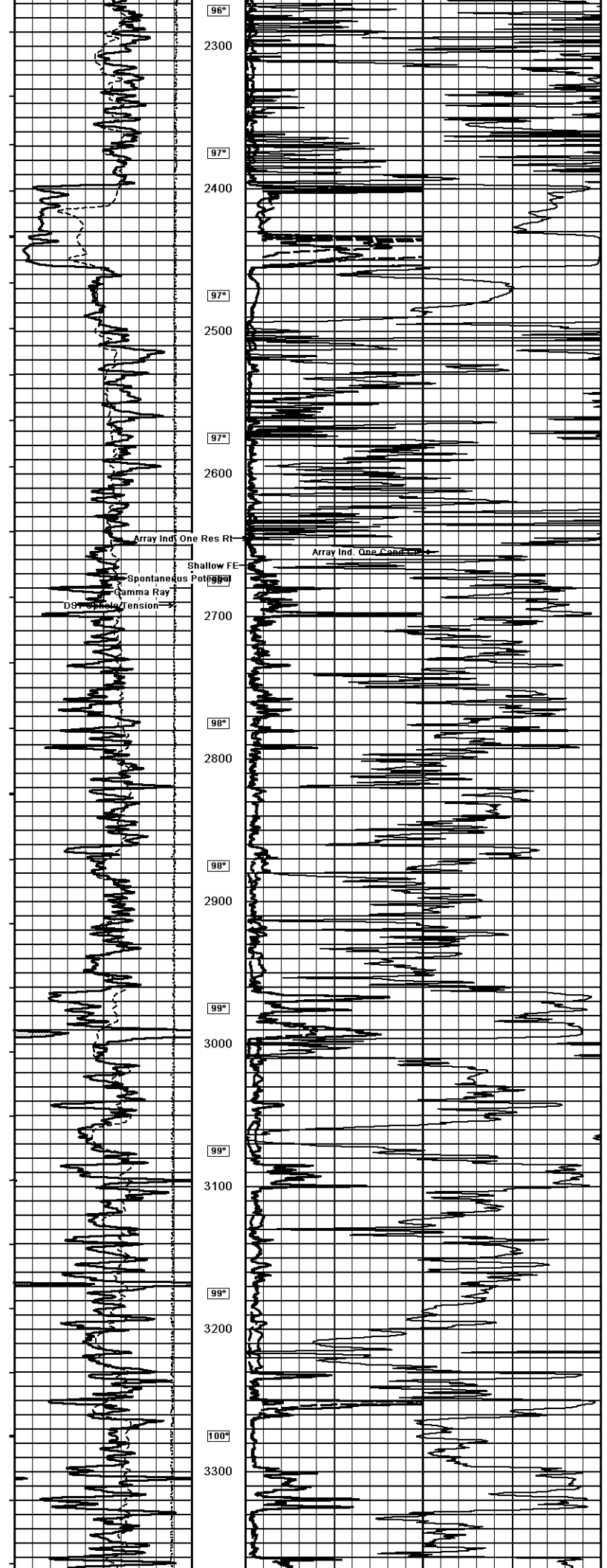
89°

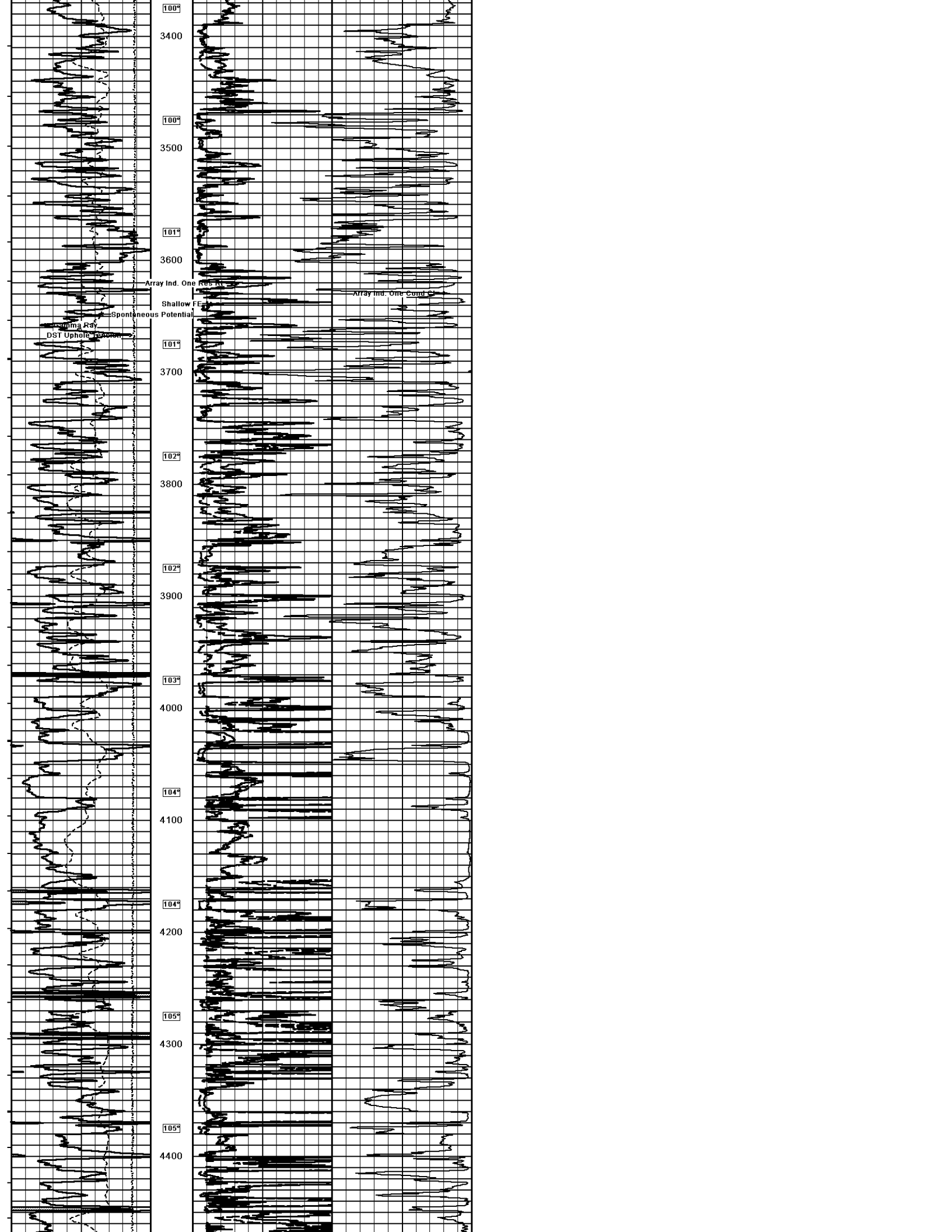
90°

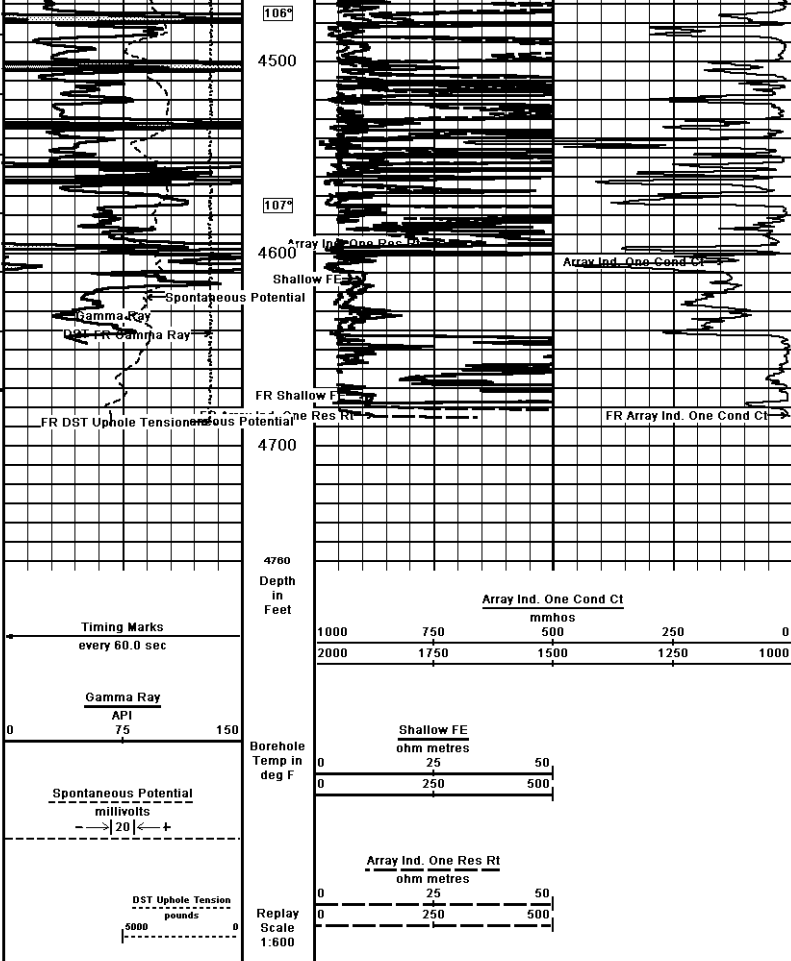
91°

1100









Depth Based Data - Maximum Sampling Increment 10.0cm  
 Plotted on 20-APR-2011 10:25  
 Filename: C:\Users\SSTRIB-1\AppData\Local\Temp\Weatherford PreView\01Hund #1-9\_002.dta  
 Recorded on 01-JAN-2003 06:05  
 System Versions: Logged with 11.03.2789 Plotted with 11.02.2164

2 INCH MAIN PASS

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