Weatherford

ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG

COMPANY	SHAKESPEARE OIL CO., INC.
WELL	CHURCH OF GOD #2-27
FIELD	PENCE
PROVINCE/COUNTY	SCOTT
COUNTRY/STATE	U.S.A. / KANSAS
LOCATION	2305' FNL & 50' FEL
PERMIT NUMBER	NE SE SE NE

SEC 27	TWP 16S	RGE 34W
Latitude	38.635216355	
Longitude	101.054556971	
API Number	15-171-21086	

Other Services
MPD/MDN MML

Permanent Datum GL, Elevation 3119 feet
Log Measured From KB
Drilling Measured From KB @ 10 FEET

Elevations:	feet
KB	3129.00
DF	3127.00
GL	3119.00

Date	18-SEP-2014			
Run Number	ONE			
Service Order	7960-98252230			
Depth Driller	4890.00	feet		
Depth Logger	4883.00	feet		
First Reading	263.00	feet		
Last Reading	4879.66	feet		
Casing Driller	268.00	feet		
Casing Logger	263.00	feet		
Bit Size	7.875	inches		
Hole Fluid Type	WBM			
Density / Viscosity	9.20 lb/USg		54.00 CP	
PH / Fluid Loss	11.00		8.80 ml/30Min	
Sample Source	MUDPIT			
Rm @ Measured Temp	0.60 @ 75.0	ohm-m		
Rmf @ Measured Temp	0.48 @ 75.0	ohm-m		
Rmc @ Measured Temp	0.72 @ 75.0	ohm-m		
Source Rmf / Rmc	CALC		CALC	
Rm @ BHT	0.41 @111.0	ohm-m		
Time Since Circulation	4 HOURS			
Max Recorded Temp	112.00	deg F		
Equipment / Base	13096		LIB	
Recorded By	DEREK CARTER		JAKE HINES	
Witnessed By	TIM PRIEST			
JOB #	LB14-282			

BOREHOLE RECORD

Last Edited: 18-SEP-2014 13:24

Bit Size inches	Depth From feet	Depth To feet
7.875	268.00	4890.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	8.625	0.00	268.00	24.00

REMARKS

- SOFTWARE ISSUE: WLS 13.08.2113
- TOOL STRING: MCG, MML, MDN, MPD, MFE, MAI RUN IN COMBINATION
- HARDWARE:
  - MDN: DUAL BOWSPRING ECCENTRALIZER
  - MFE: 1 X 0.5 INCH STANDOFF
  - MAI: 2 X 0.5 INCH STANDOFF
- 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
- TOTAL HOLE VOLUME FROM TD TO SURFACE CASING: 2140 CU. FT.
- ANNULAR HOLE VOLUME WITH 5.5 INCH CASING FROM TD TO 3800 FT: 200 CU. FT.

- ANNULAR HOLE VOLUME WITH 5.5 INCH CASING FROM TD TO 6000 FT.: 250 US. FT.

- SERVICE ORDER # 7960-98252230

- RIG: H.D. DRILLING #2

- ENGINEER: DEREK CARTER

- JUNIOR FIELD ENGINEER: JAKE HINES

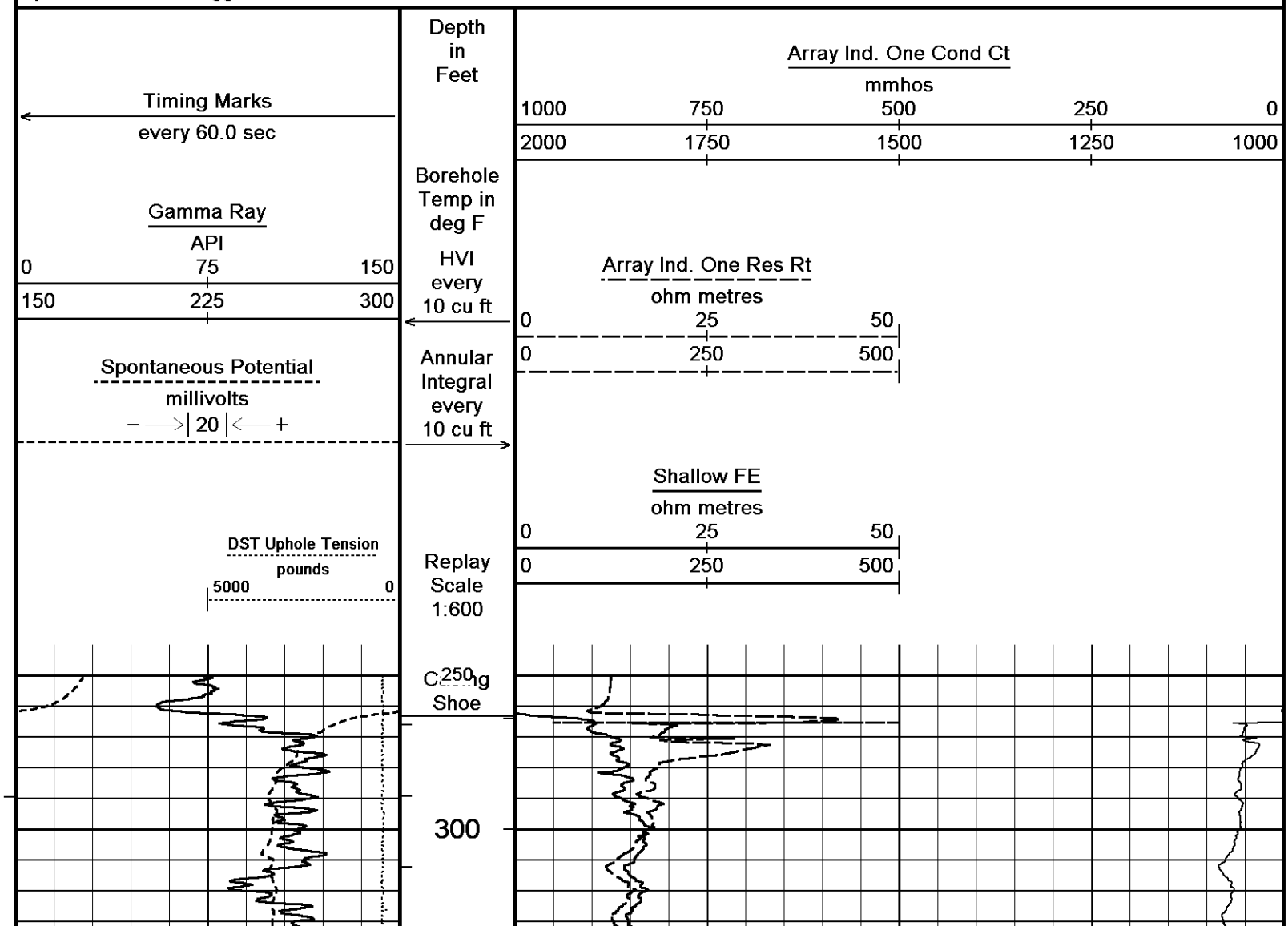
- OPERATORS: CARLOS RAMIREZ

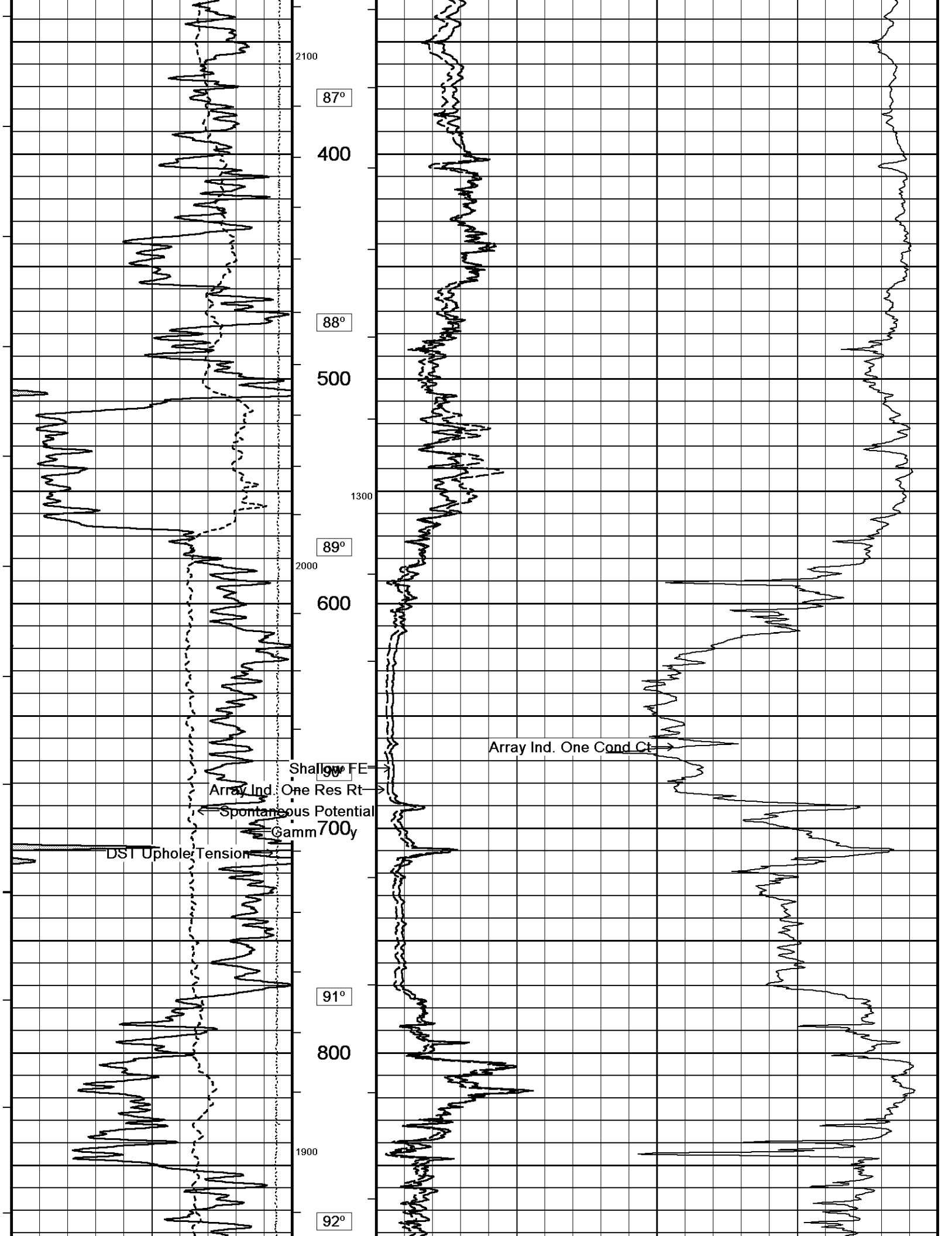
2 INCH MAIN

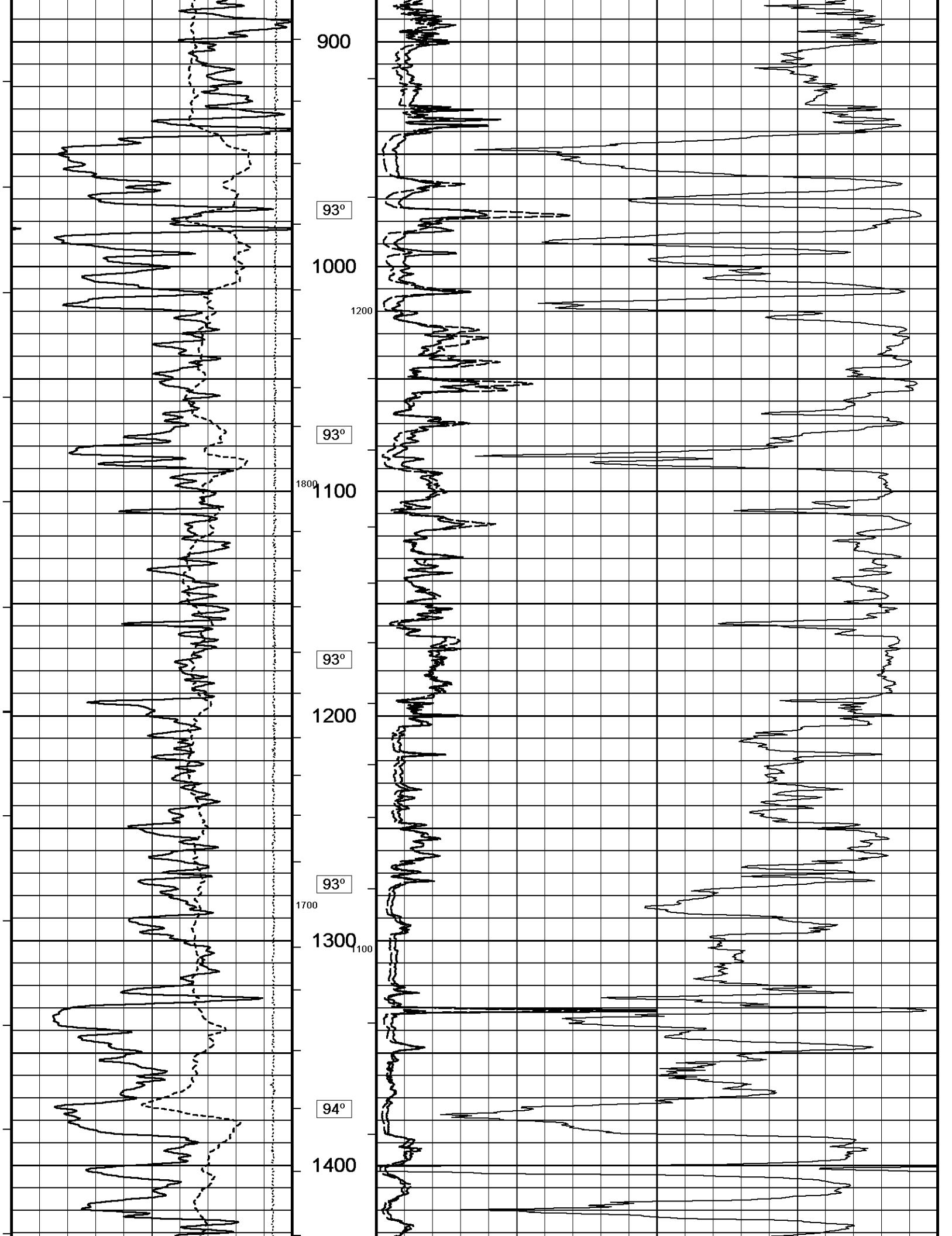
Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 18-SEP-2014 17:15

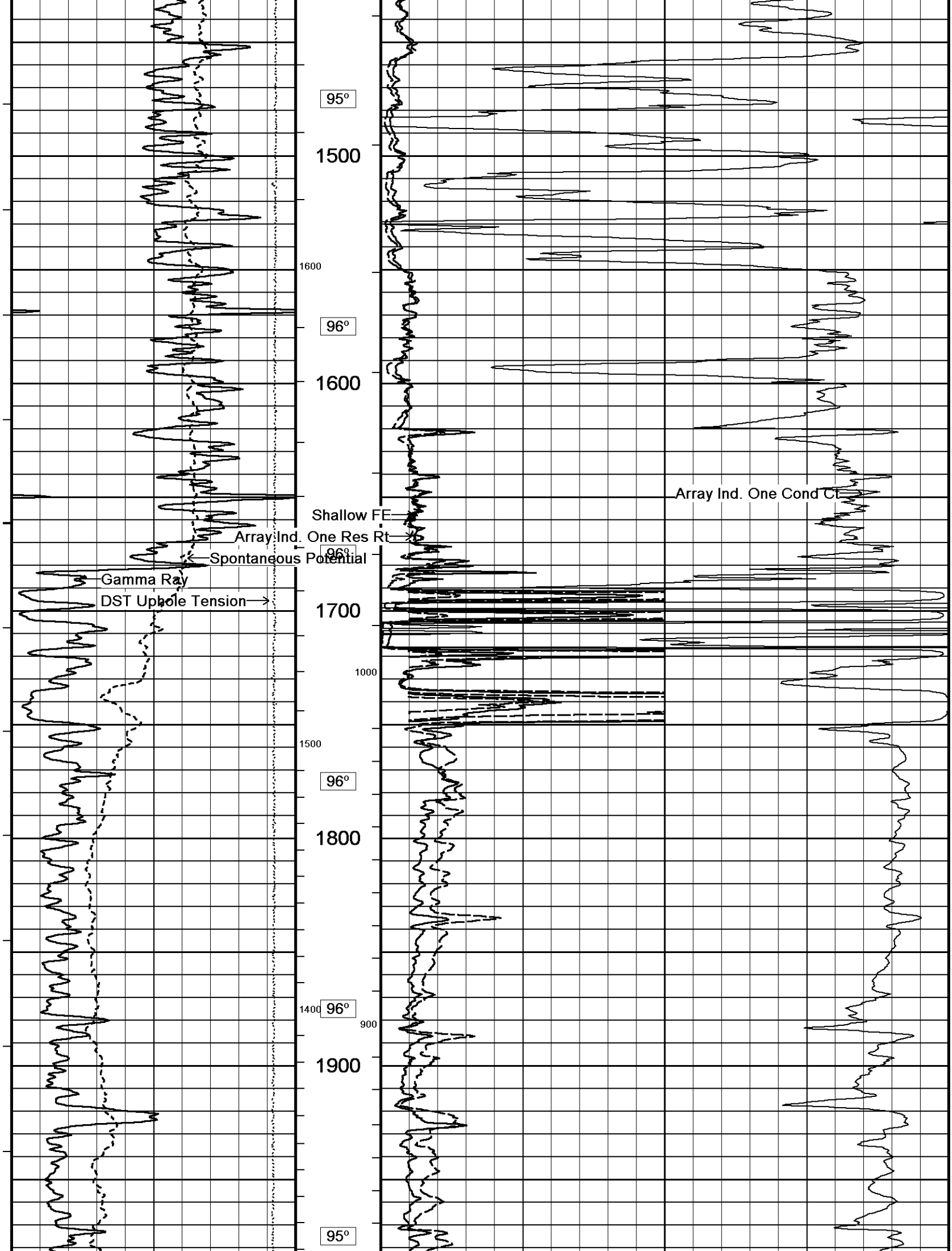
Filename: C:\Minimus 13.08.2113\Log Data\Shakespeare...\Shakespeare Church of God #2-27 Main.dta — Recorded on 18-SEP-2014 15:17

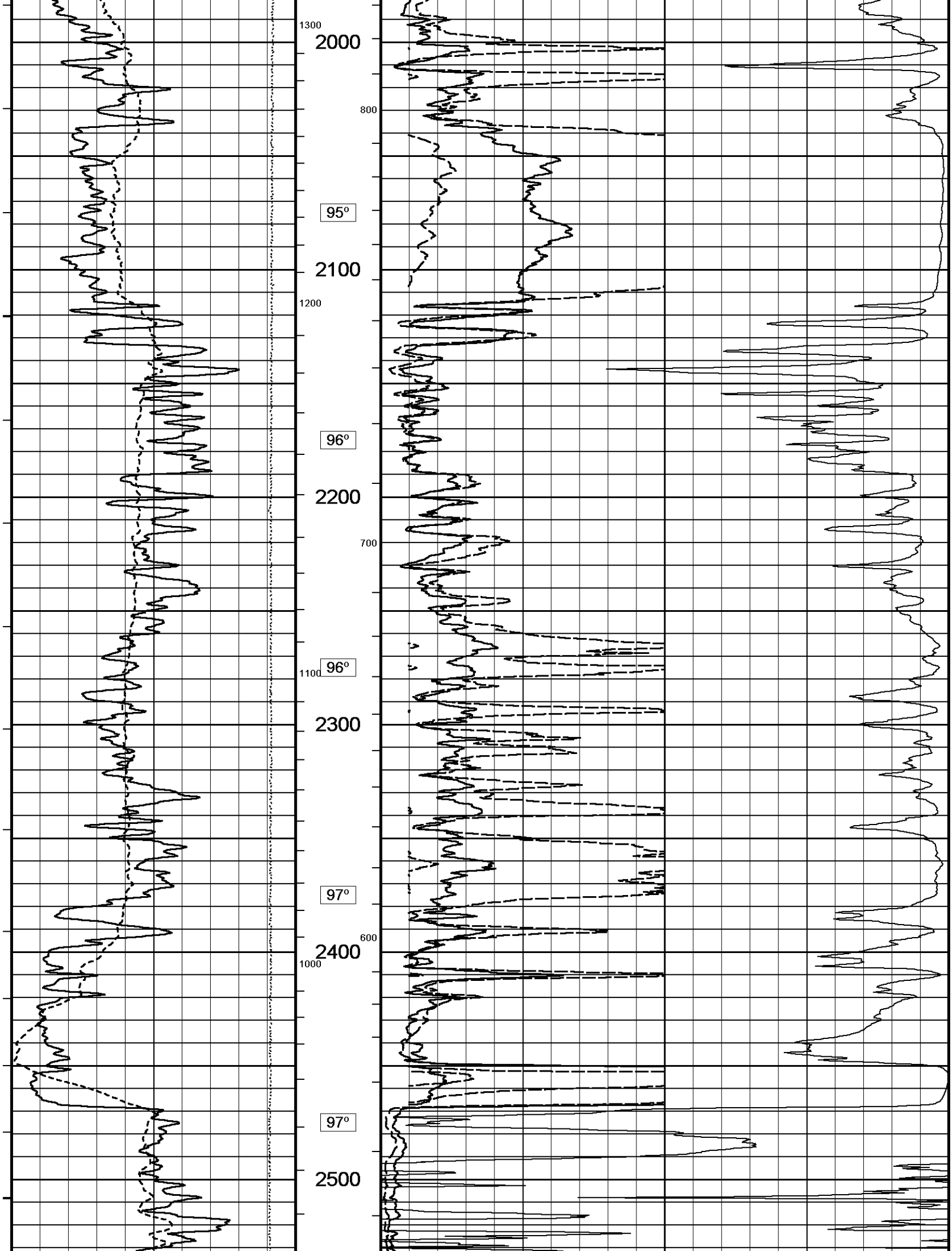
System Versions: Logged with 13.08.2113 Plotted with 13.08.2113

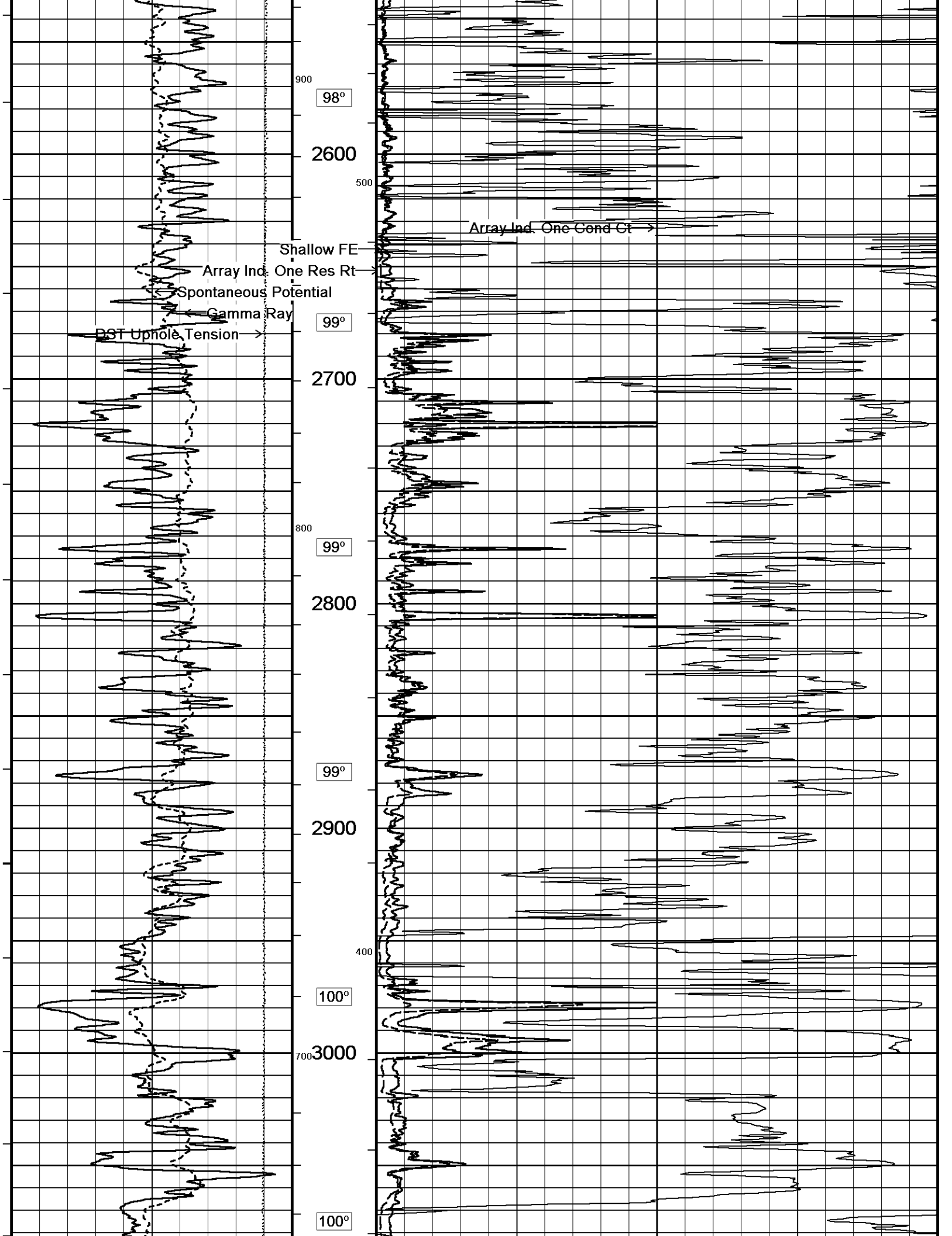


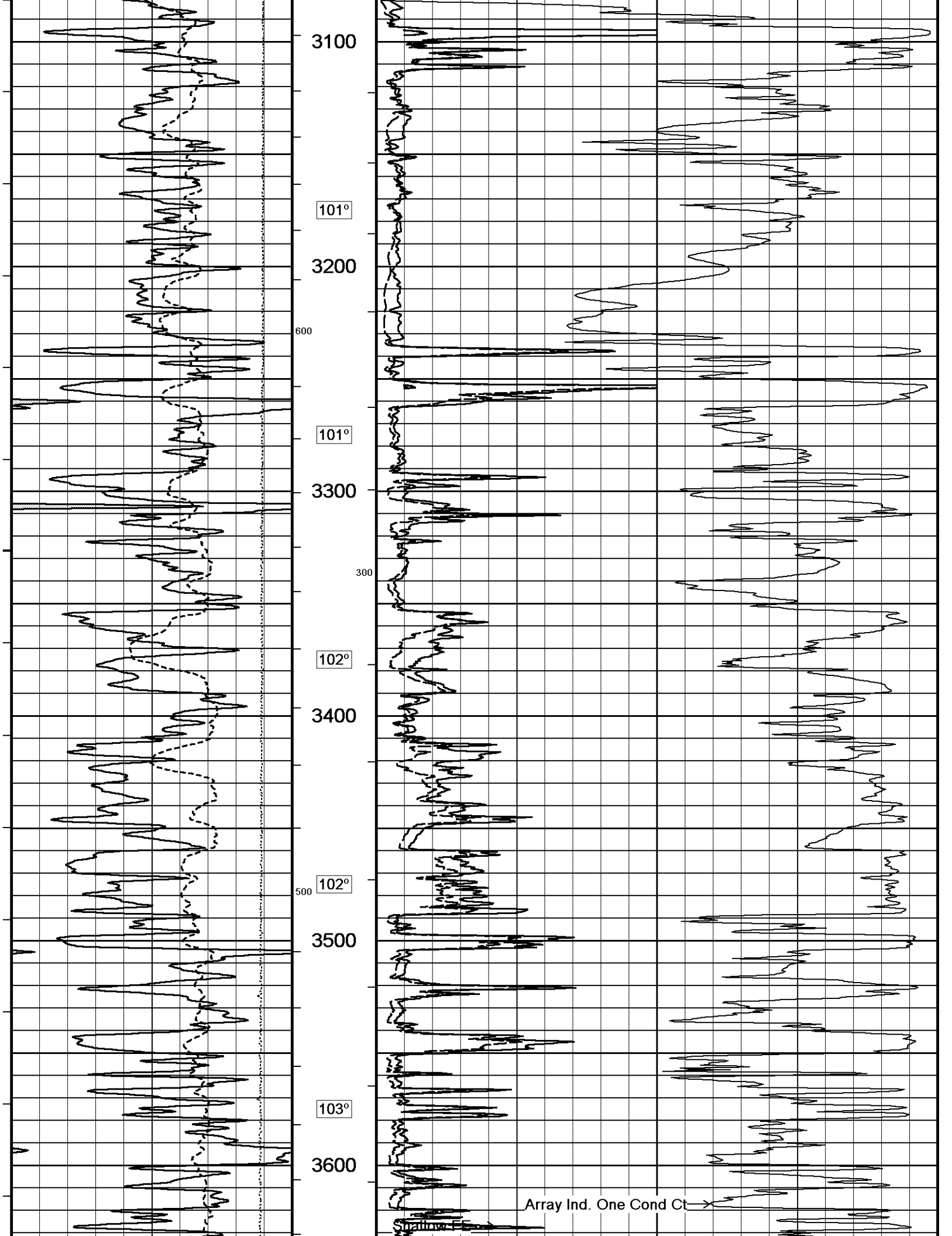

2100
87°
400
88°
500
1300
89°
2000
600
Array Ind. One Cond Ct
Shallow FE
Array Ind. One Res Rt
Spontaneous Potential
Gamm
700
DST Uphole Tension
91°
800
1900
92°

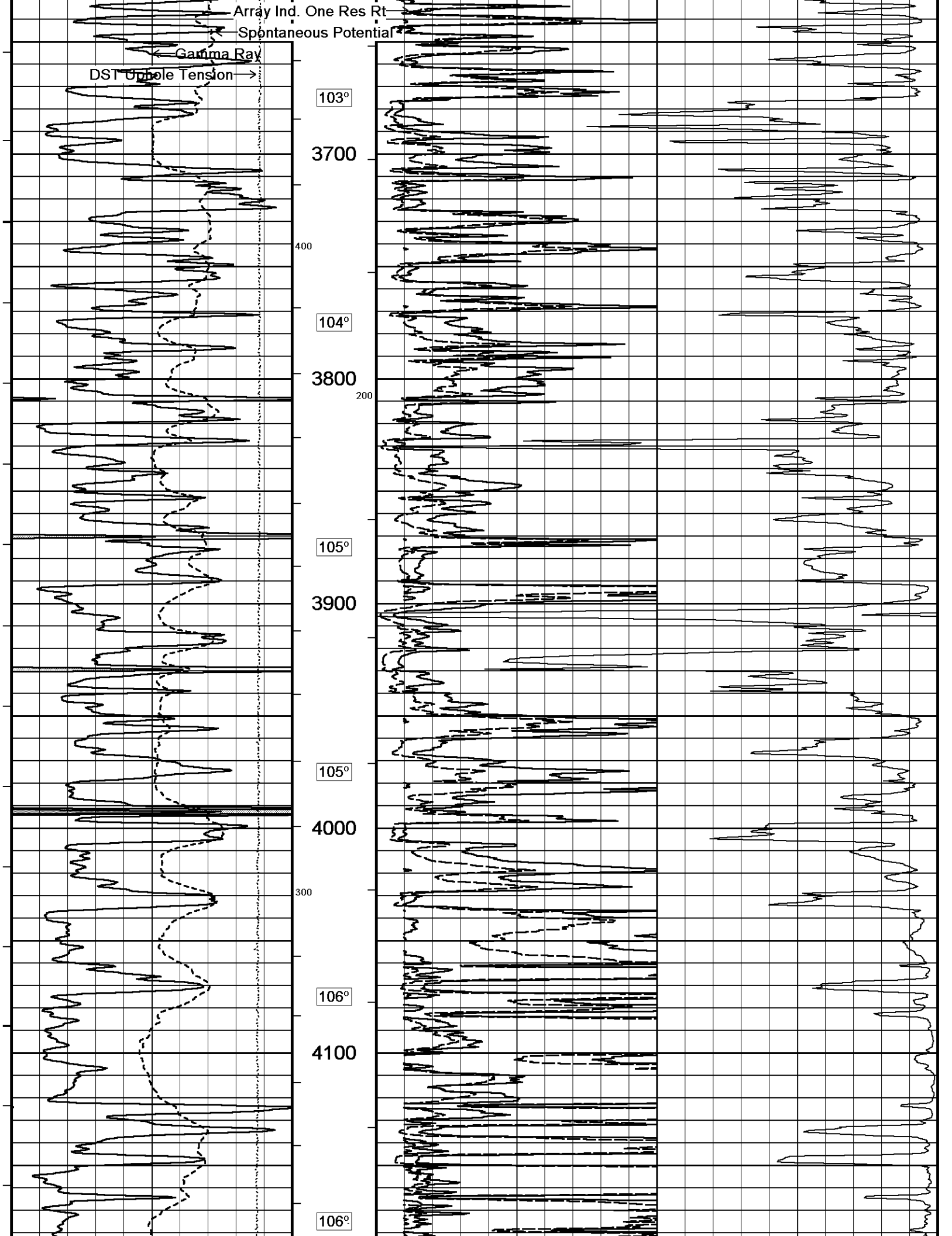

900
93°
1000
1200
93°
1800
1100
93°
1200
93°
1700
1300
1100
94°
1400

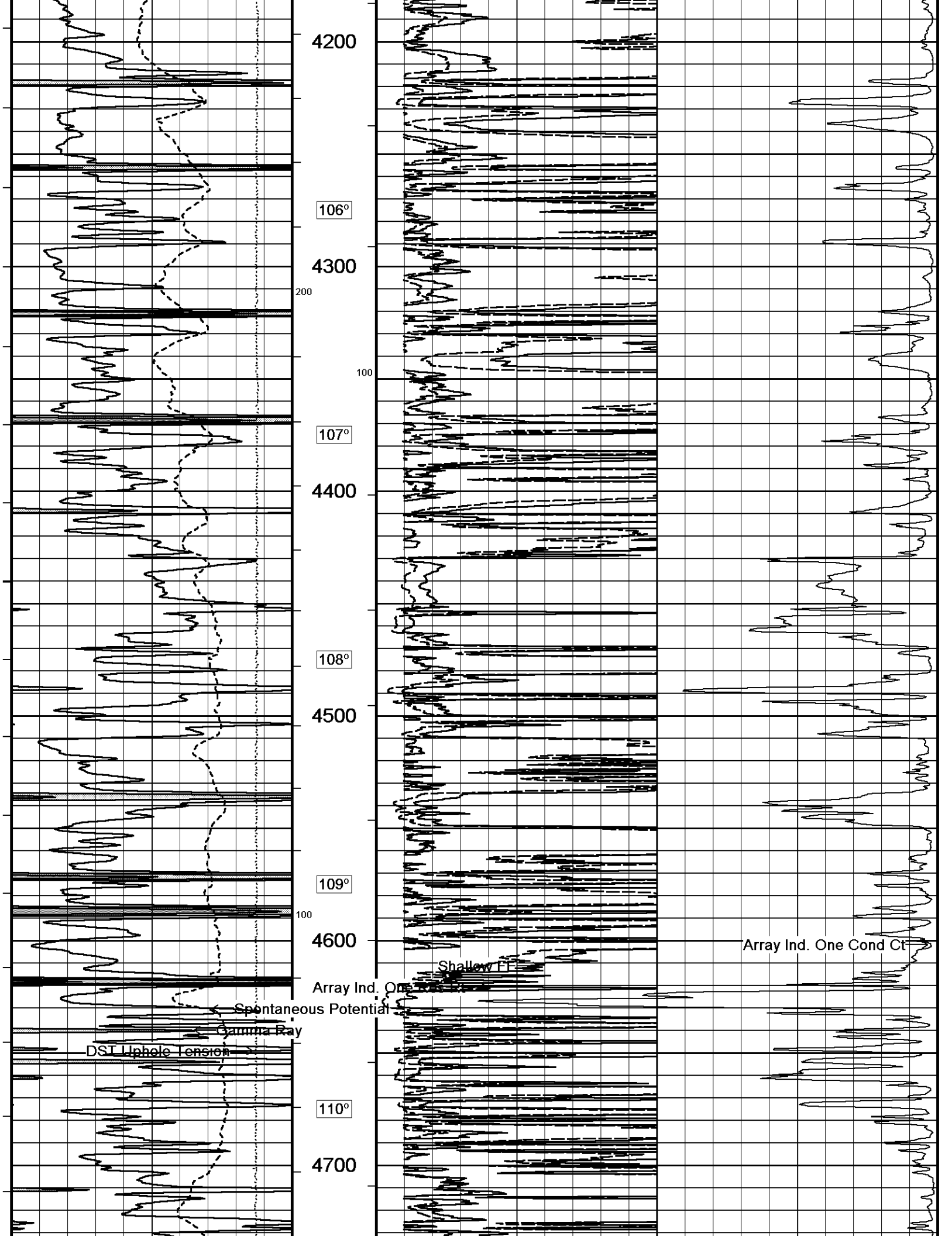

95°
1500
1600
96°
1600
Array Ind. One Cond Ct
Shallow FE
Array Ind. One Res Rt
96°
Spontaneous Potential
Gamma Ray
DST Uphole Tension
1700
1000
1500
96°
1800
1400
96°
900
1900
95°

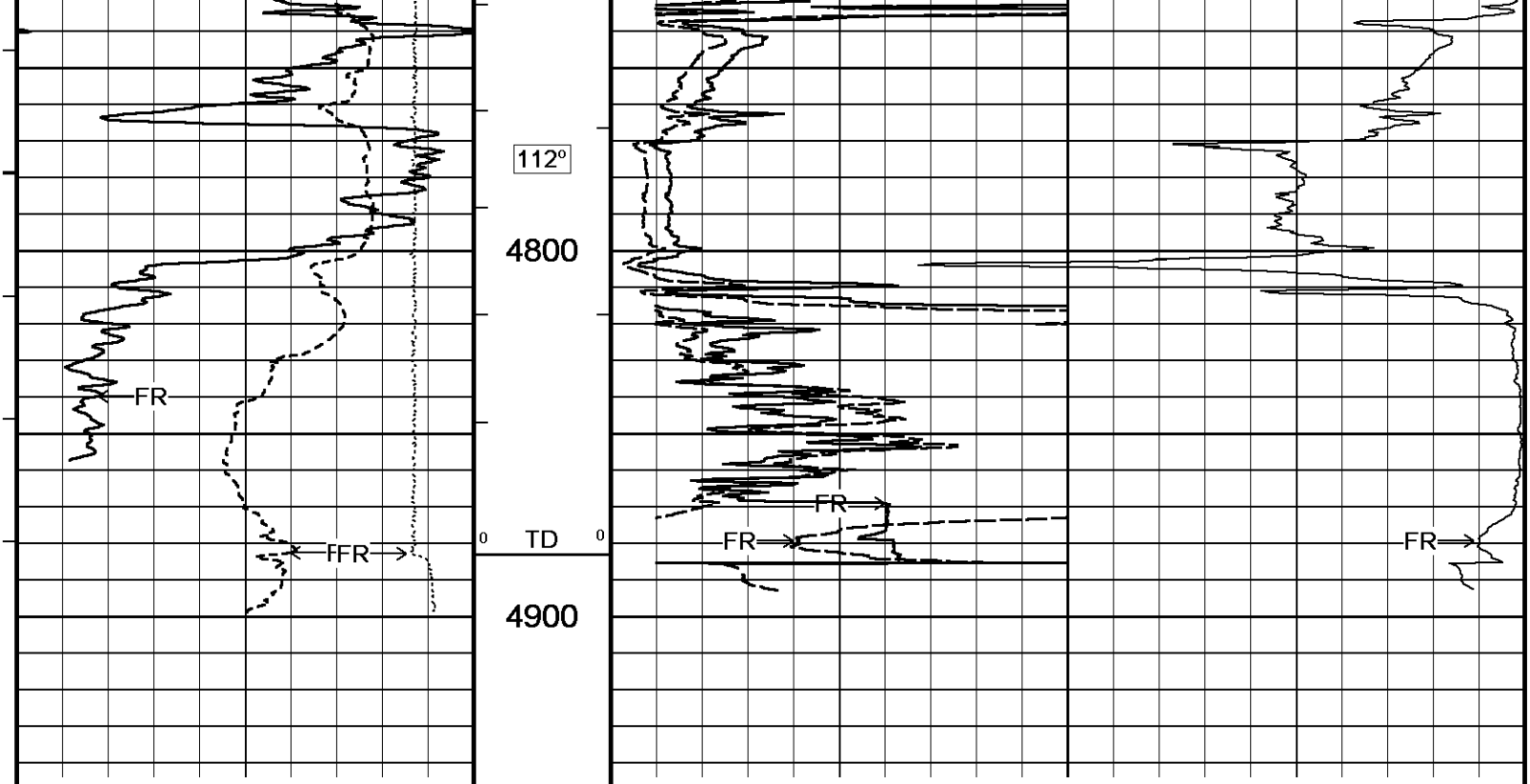

1300
2000
800
95°
2100
1200
96°
2200
700
1100
96°
2300
97°
600
2400
1000
97°
2500


900
98°
2600
500
Array Ind. One Cond Ct
Shallow FE
Array Ind. One Res Rt
Spontaneous Potential
Gamma Ray
99°
DST Uphole Tension
2700
800
99°
2800
99°
2900
400
100°
700
3000
100°


3100
101°
3200
600
101°
3300
300
102°
3400
500
102°
3500
103°
3600
Array Ind. One Cond Ct
Shallow Flood


Array Ind. One Res Rt
Spontaneous Potential
Gamma Ray
DST Uphole Tension
103°
3700
400
104°
3800
200
105°
3900
105°
4000
300
106°
4100
106°


4200
106°
4300
200
100
107°
4400
108°
4500
109°
100
4600
110°
4700
Array Ind. One Cond Ct
Shallow FF
Array Ind. One Res Ct
Spontaneous Potential
Gamma Ray
DST Uphole Tension



Depth in Feet

Timing Marks
every 60.0 sec

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

Borehole Temp in deg F

Gamma Ray
API
0 75 150
150 225 300

HVI every 10 cu ft

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

Annular Integral every 10 cu ft

Spontaneous Potential
millivolts
– 20 +

Shallow FE
ohm metres
0 25 50
0 250 500

DST Uphole Tension
pounds
5000 0

Replay Scale 1:600

Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 18-SEP-2014 17:15
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2 INCH MAIN

5 INCH MAIN

Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 18-SEP-2014 17:15
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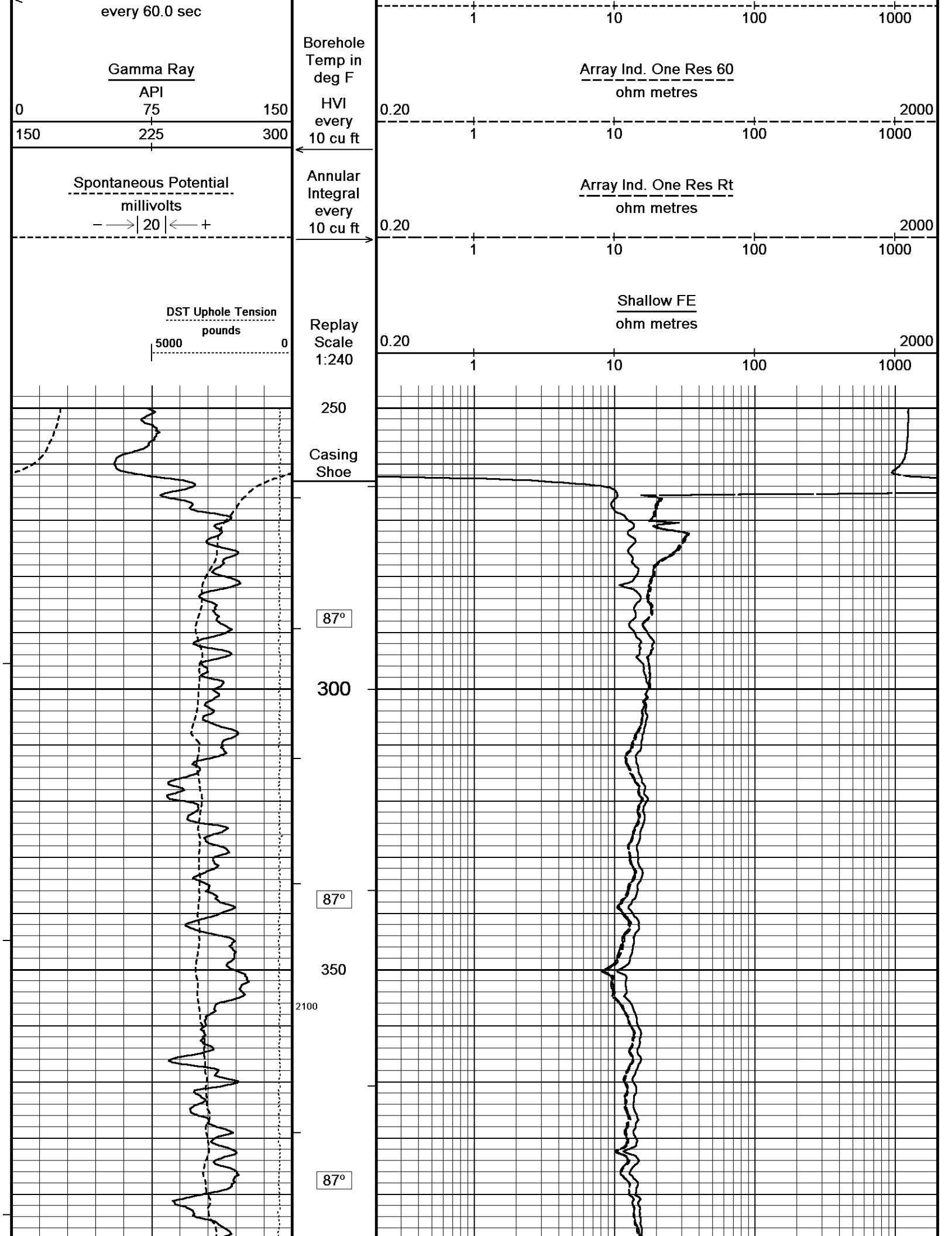
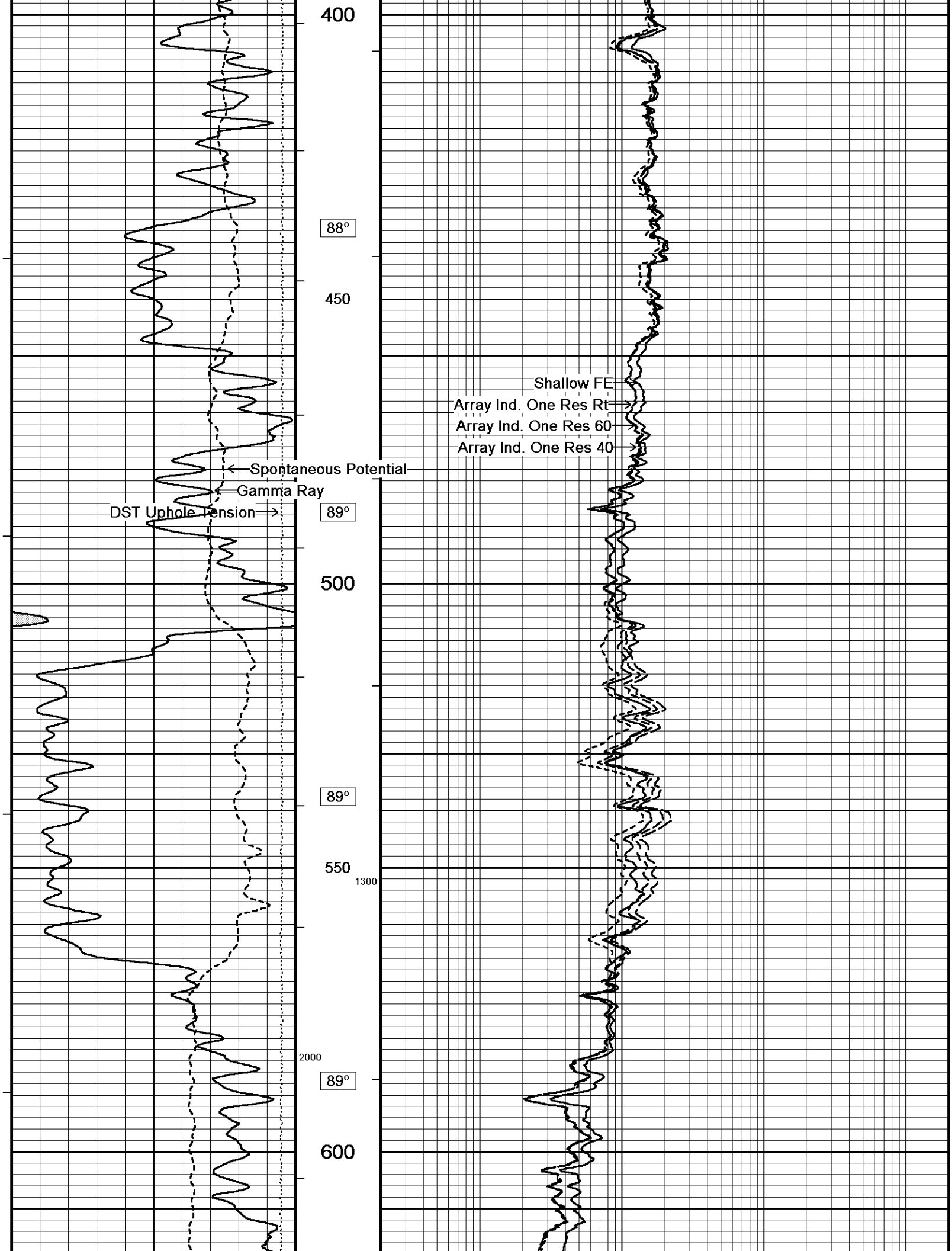
System Versions: Logged with 13.08.2113 Plotted with 13.08.2113

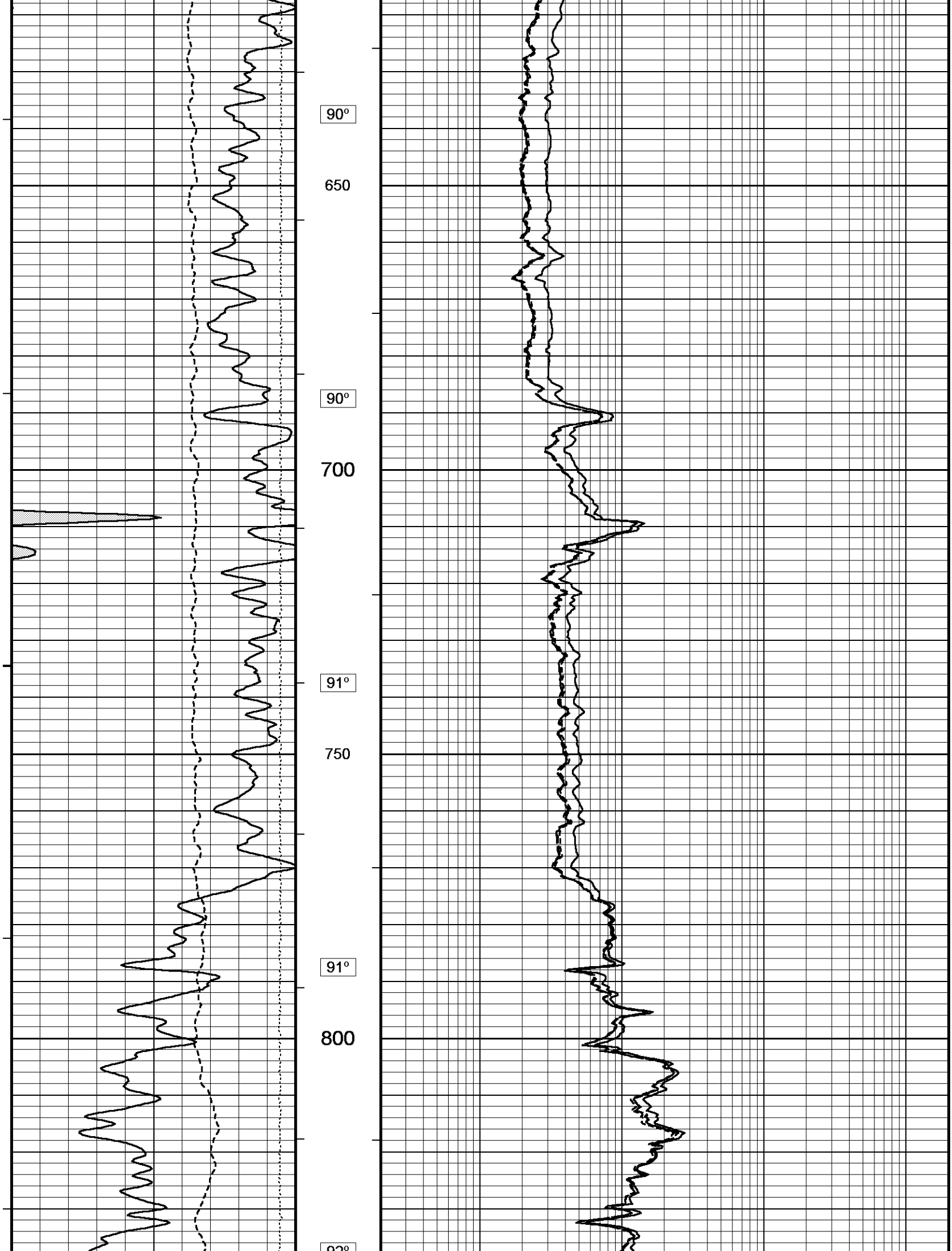
Depth in Feet

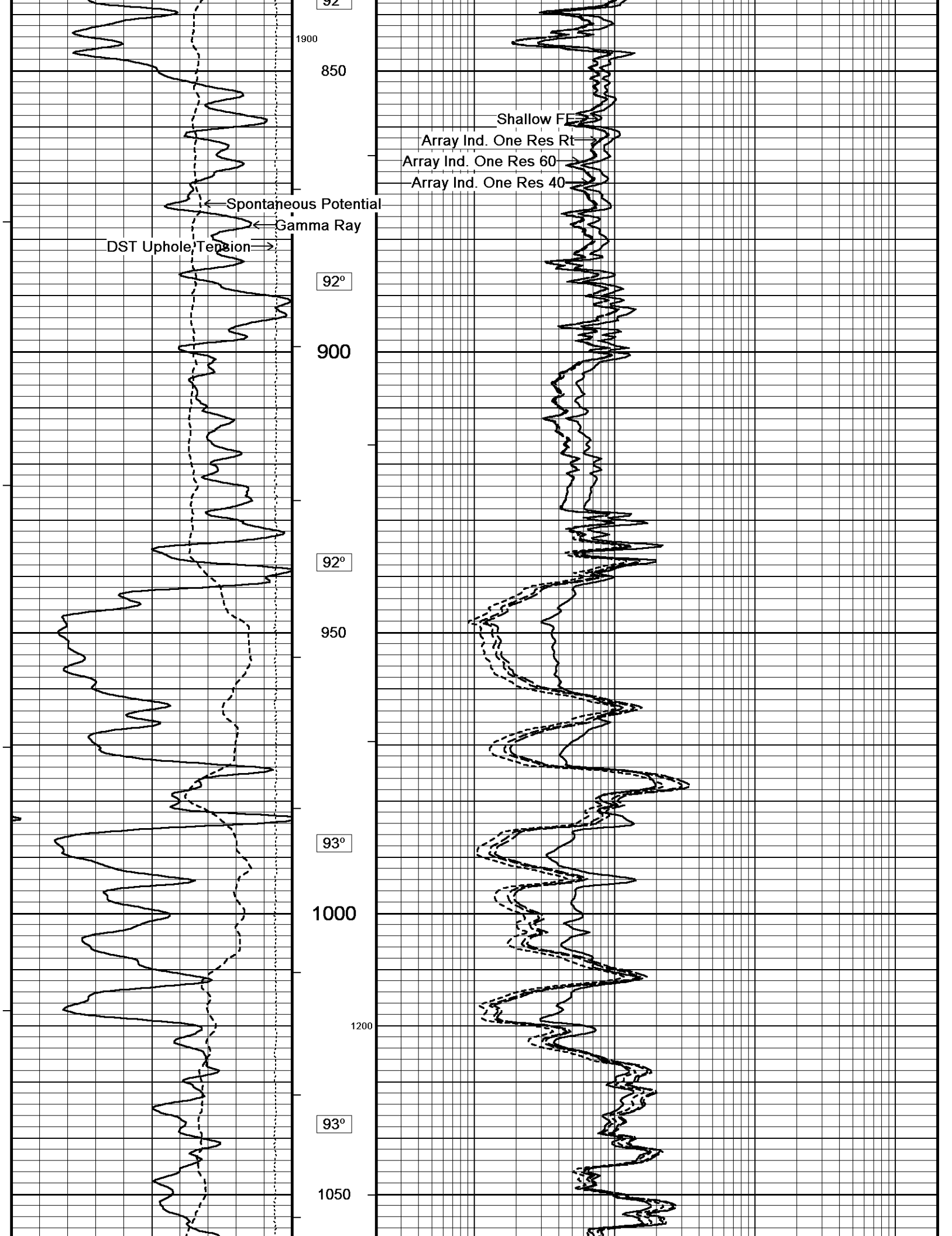
Timing Marks

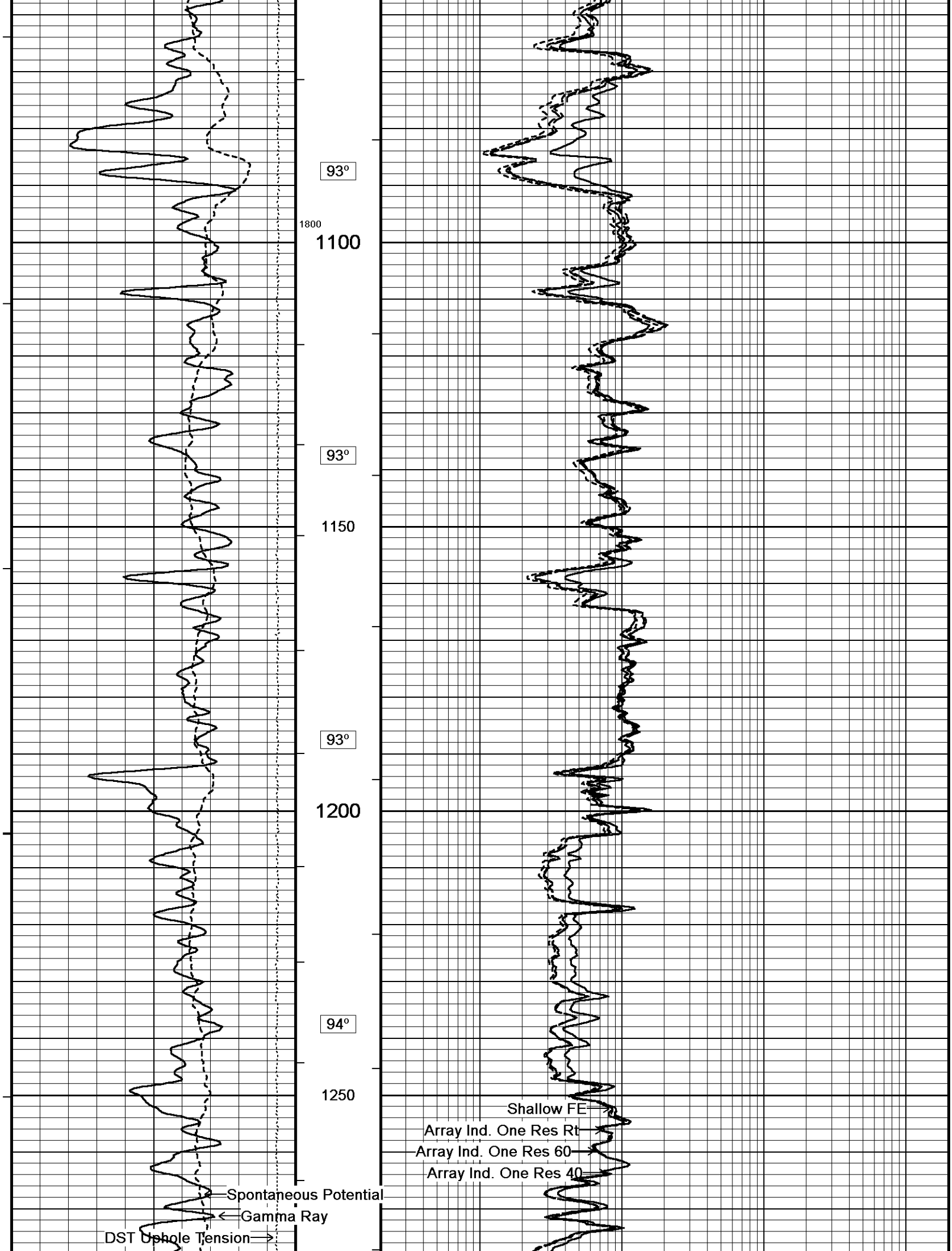
Array Ind. One Res 40
ohm metres
0.20 2000

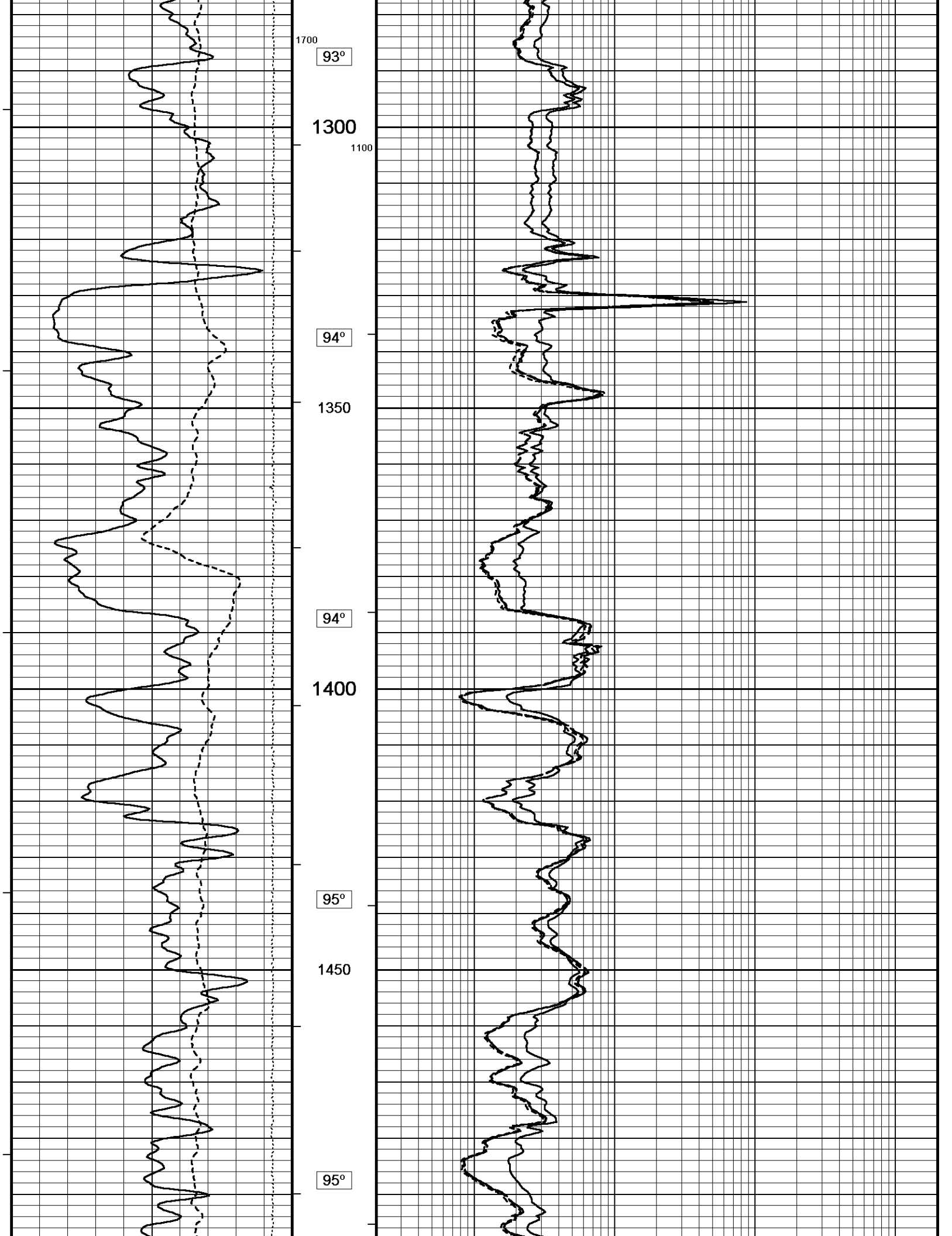

every 60.0 sec
Gamma Ray
API
0
75
150
150
225
300
Spontaneous Potential
millivolts
– 20 +
DST Uphole Tension
pounds
5000
0
Borehole Temp in deg F
HVI every 10 cu ft
Annular Integral every 10 cu ft
Replay Scale 1:240
250
Casing Shoe
87°
300
87°
350
2100
87°
1
10
100
1000
Array Ind. One Res 60
ohm metres
0.20
2000
Array Ind. One Res Rt
ohm metres
Shallow FE
ohm metres

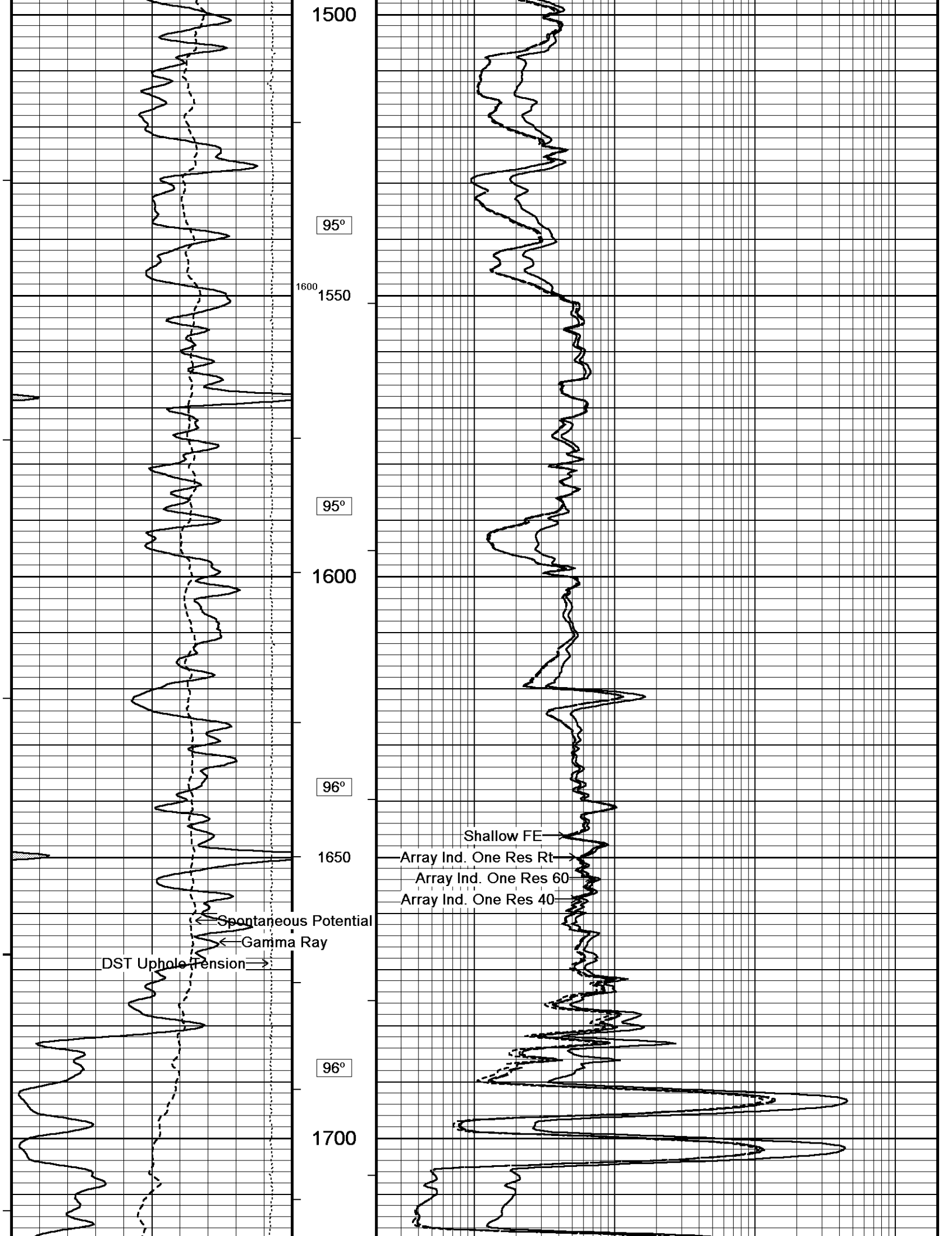

400
88°
450
Shallow FE
Array Ind. One Res Rt
Array Ind. One Res 60
Array Ind. One Res 40
Spontaneous Potential
Gamma Ray
DST Uphole Tension
89°
500
89°
550
1300
2000
89°
600

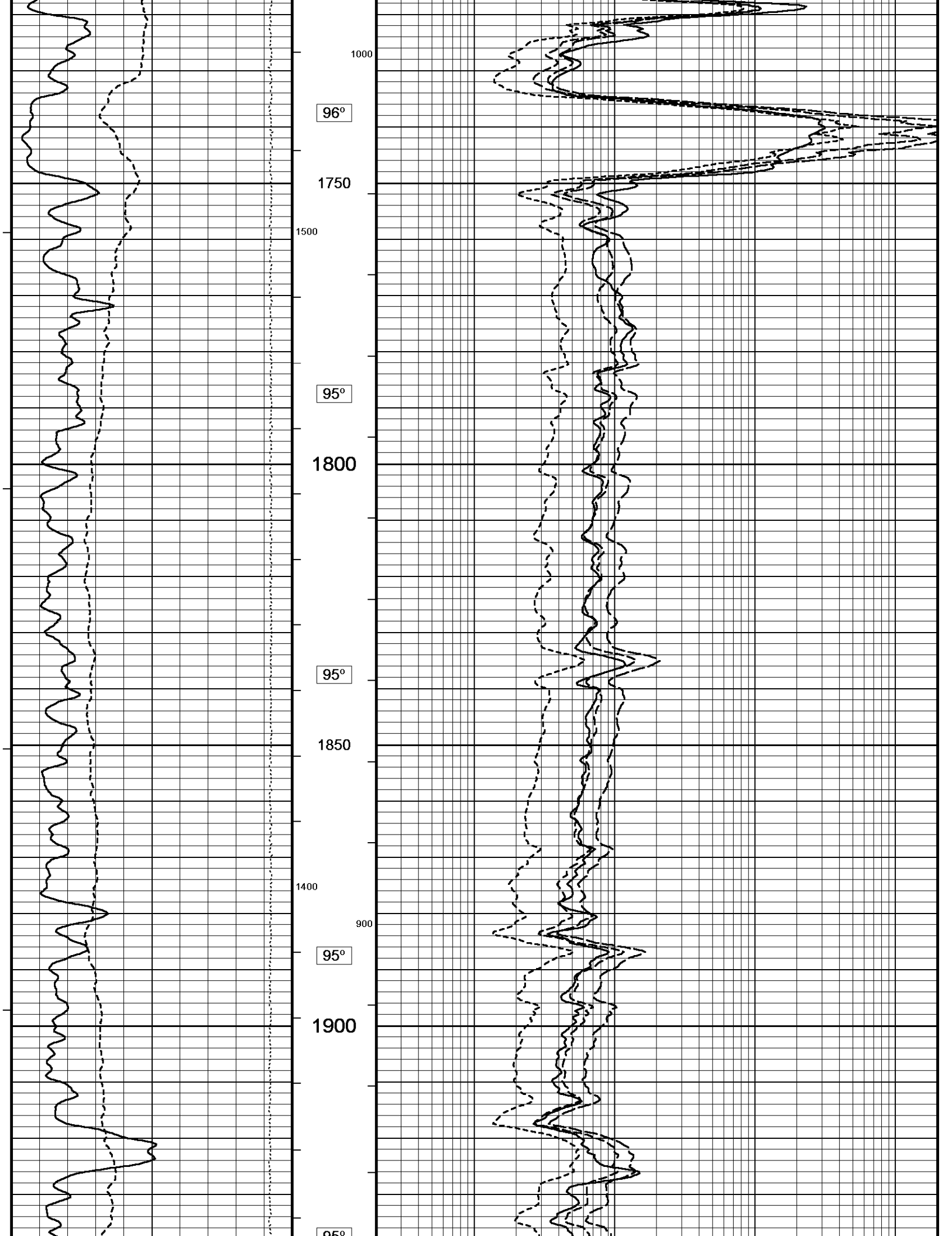

90°
650
90°
700
91°
750
91°
800

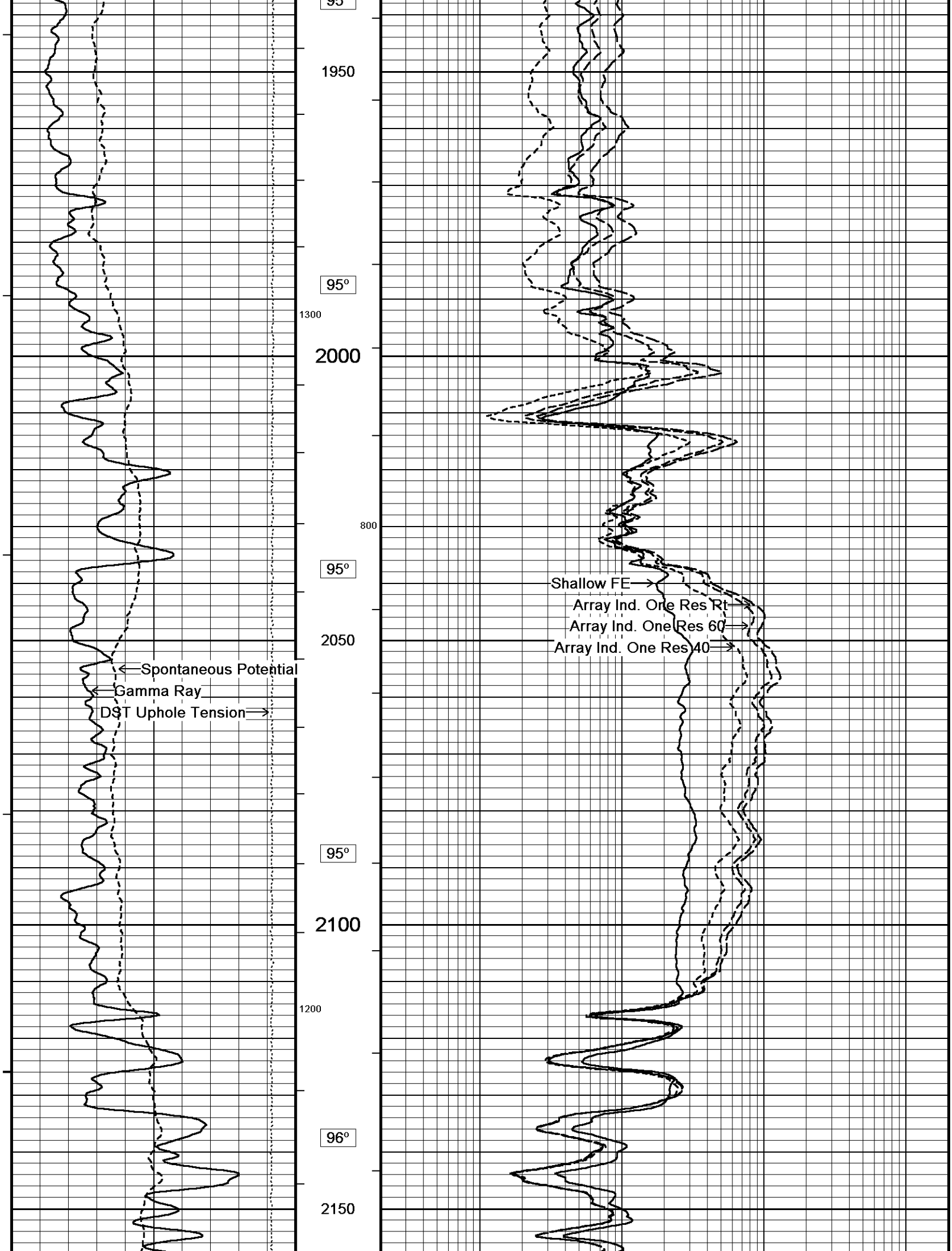

92
1900
850
Shallow FE
Array Ind. One Res Rt
Array Ind. One Res 60
Array Ind. One Res 40
Spontaneous Potential
Gamma Ray
DST Uphole Tension
92°
900
92°
950
93°
1000
1200
93°
1050

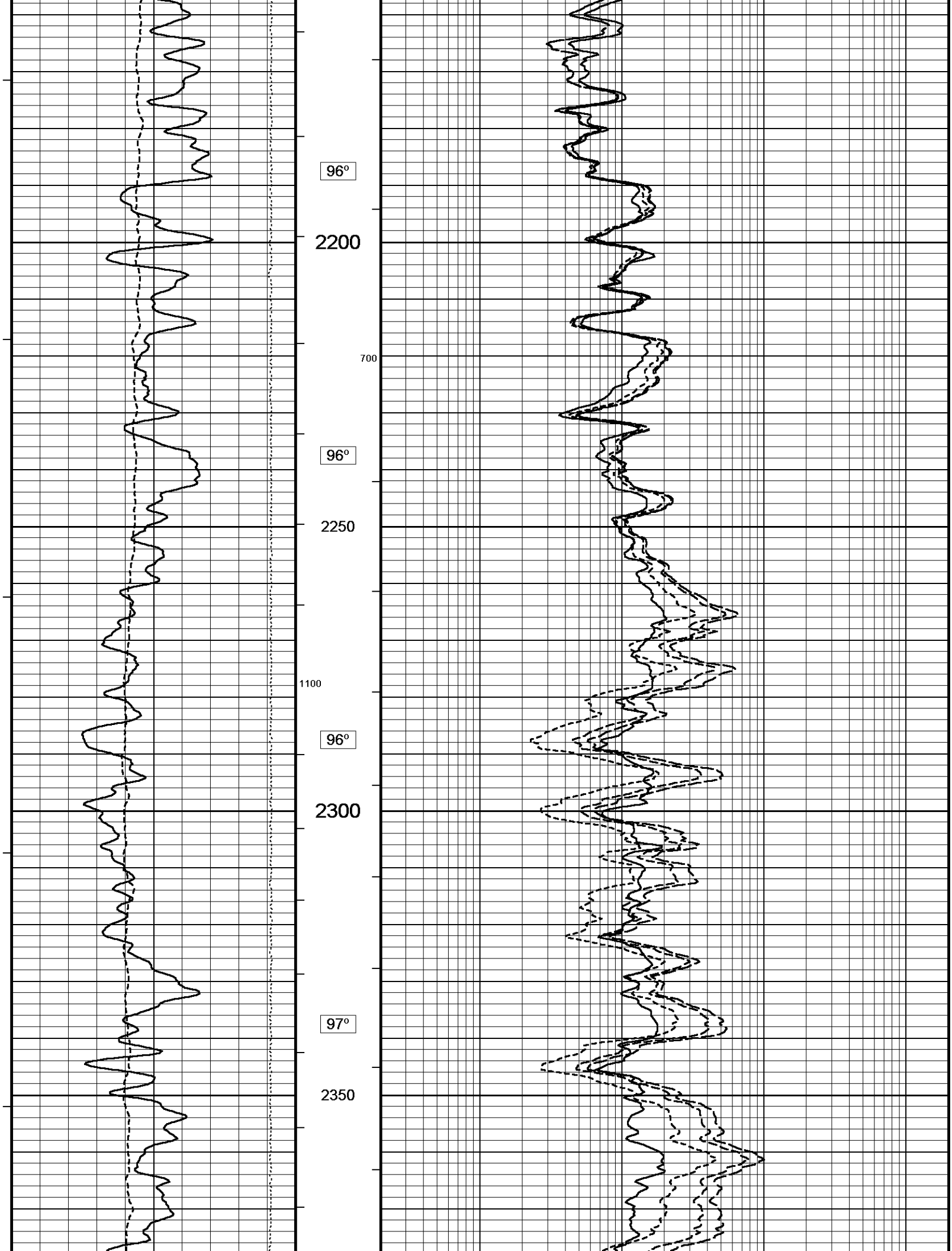

93°
1800
1100
93°
1150
93°
1200
94°
1250
Shallow FE
Array Ind. One Res Rt
Array Ind. One Res 60
Array Ind. One Res 40
Spontaneous Potential
Gamma Ray
DST Uphole Tension

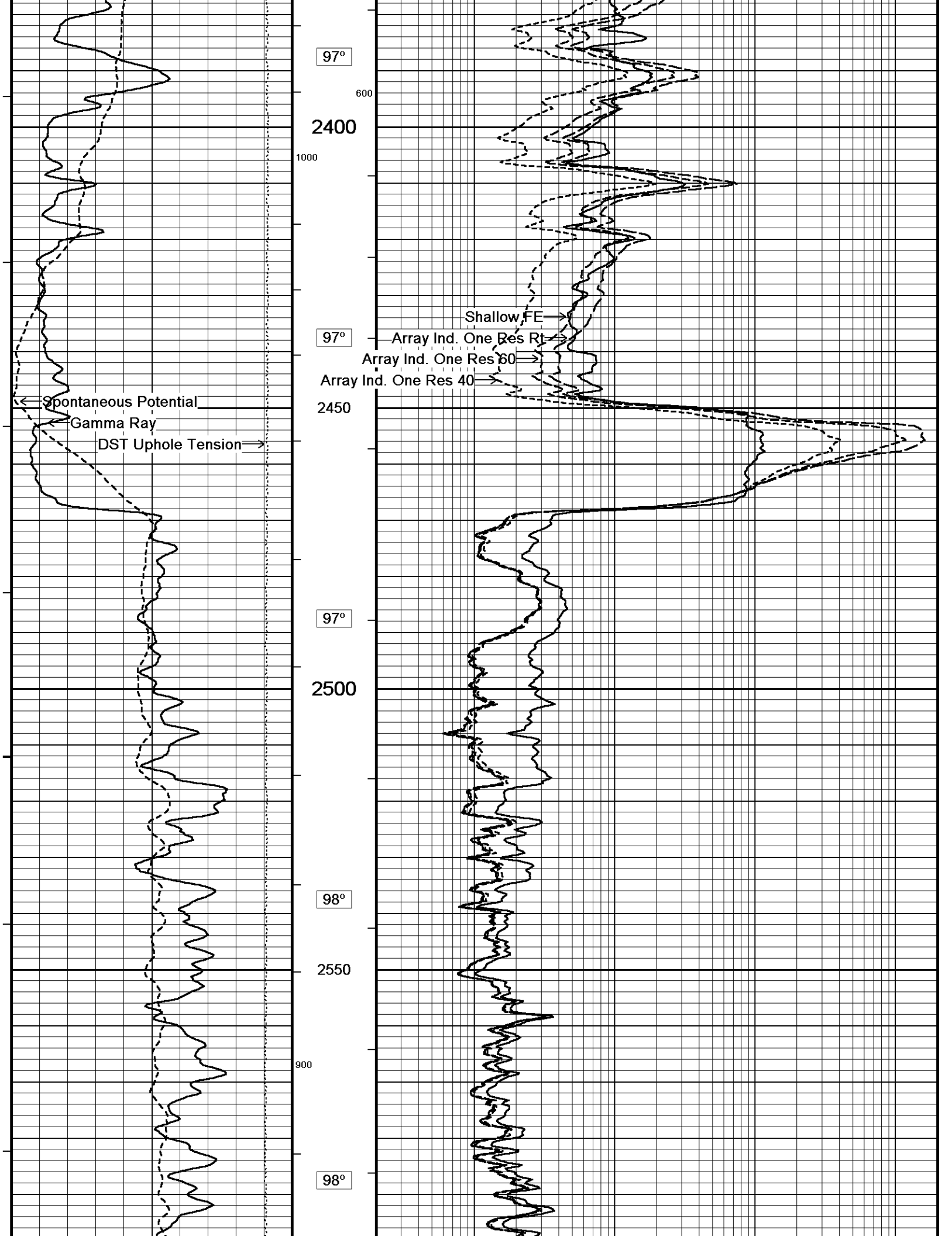

1700
93°
1300
1100
94°
1350
94°
1400
95°
1450
95°

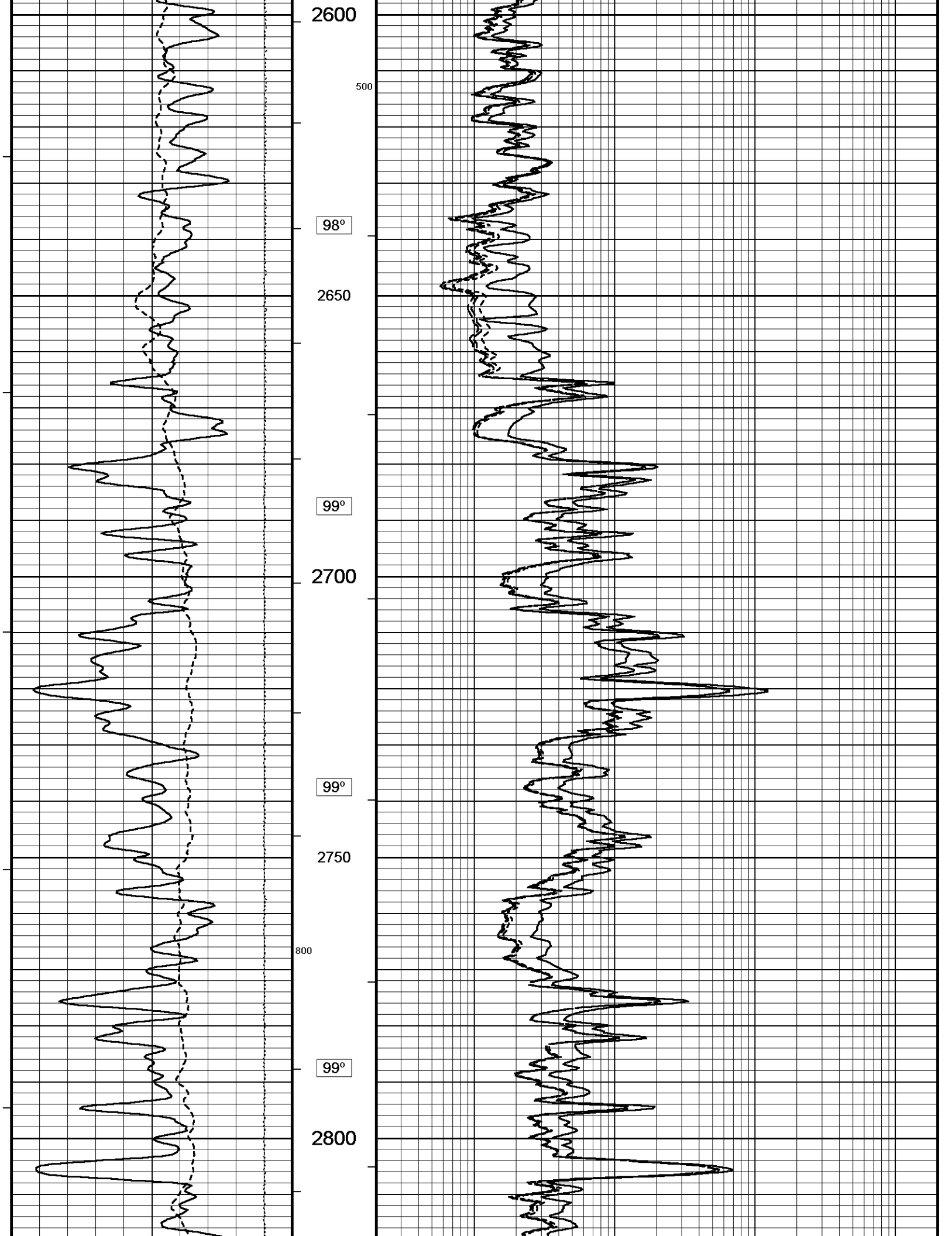

1500
95°
1600
1550
95°
1600
96°
Shallow FE
1650
Array Ind. One Res Rt
Array Ind. One Res 60
Array Ind. One Res 40
Spontaneous Potential
Gamma Ray
DST Uphole Tension
96°
1700

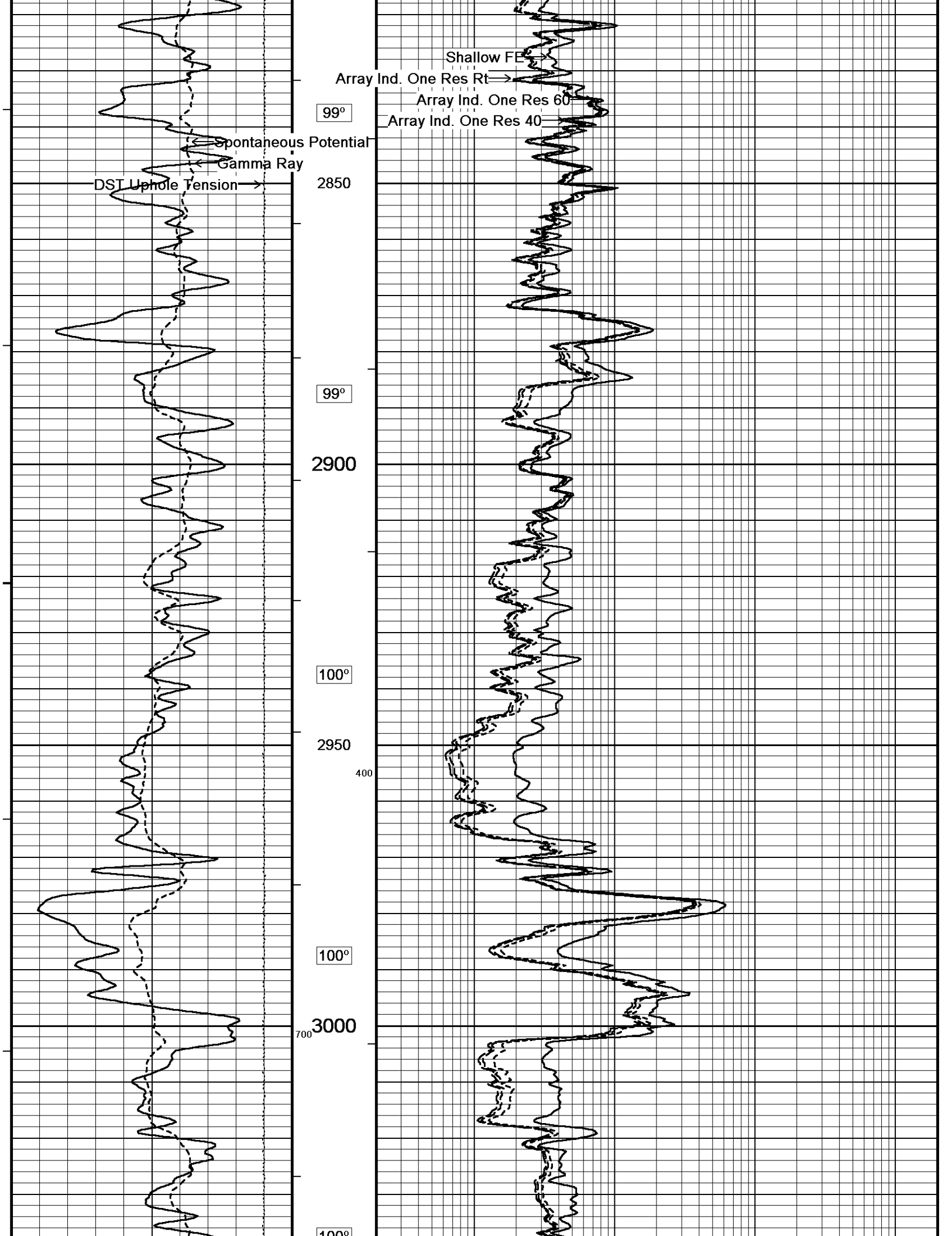

1000
96°
1750
1500
95°
1800
95°
1850
1400
900
95°
1900

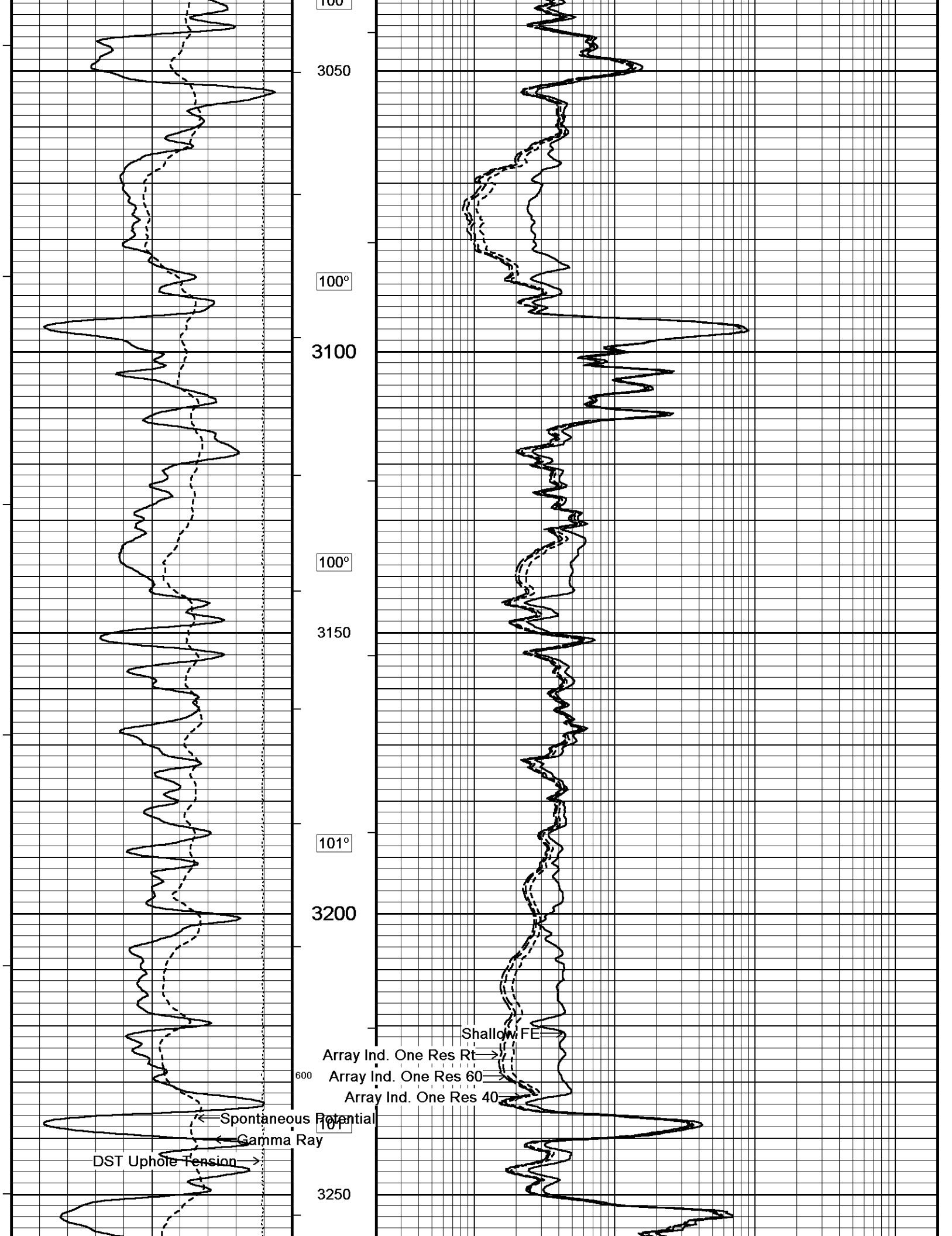

95
1950
95°
1300
2000
800
95°
2050
95°
2100
1200
96°
2150
Spontaneous Potential
Gamma Ray
DST Uphole Tension
Shallow FE
Array Ind. One Res Rt
Array Ind. One Res 60
Array Ind. One Res 40

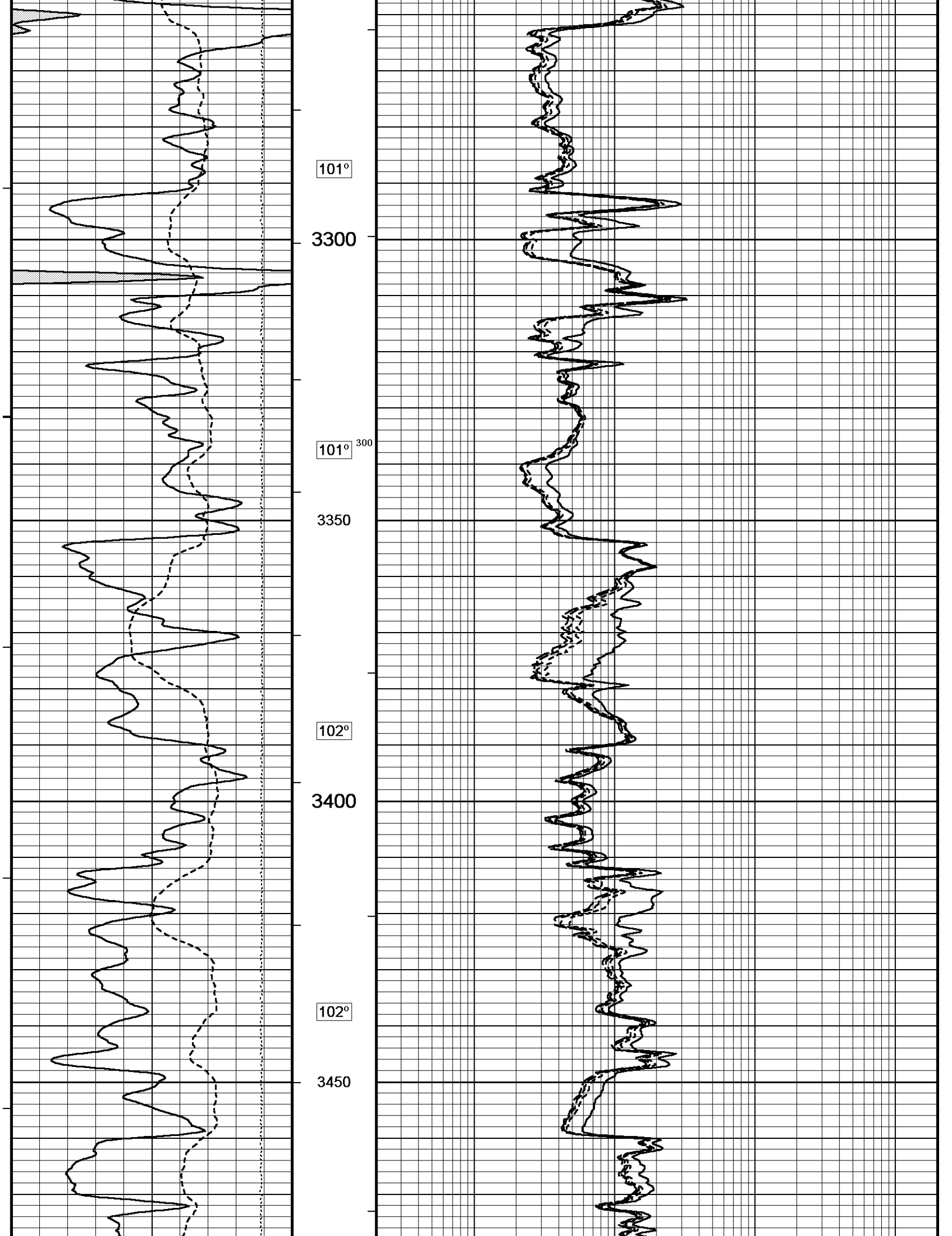

96°
2200
700
96°
2250
1100
96°
2300
97°
2350

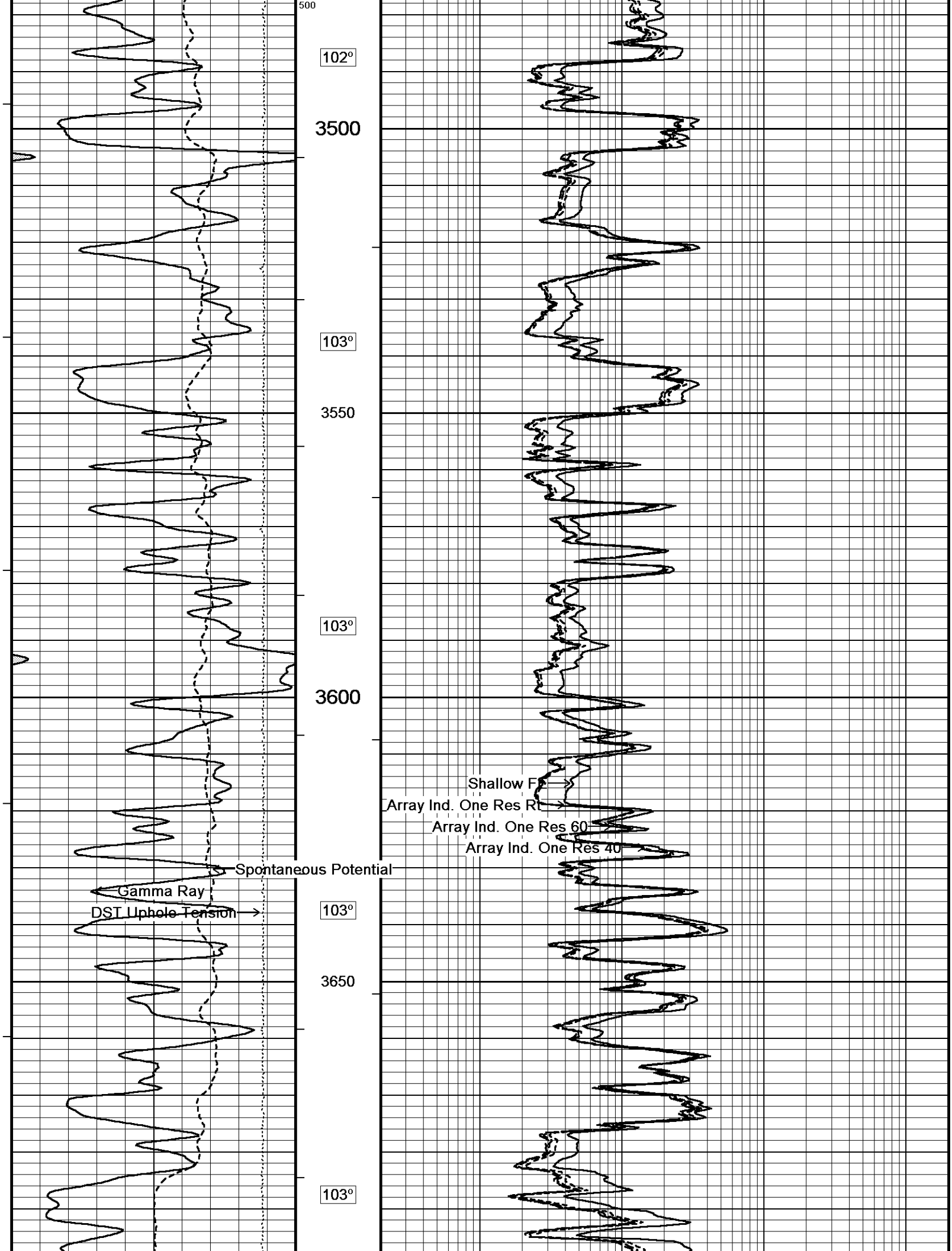

97°
600
2400
1000
Shallow FE
97°
Array Ind. One Res Rt
Array Ind. One Res 60
Array Ind. One Res 40
Spontaneous Potential
2450
Gamma Ray
DST Uphole Tension
97°
2500
98°
2550
900
98°

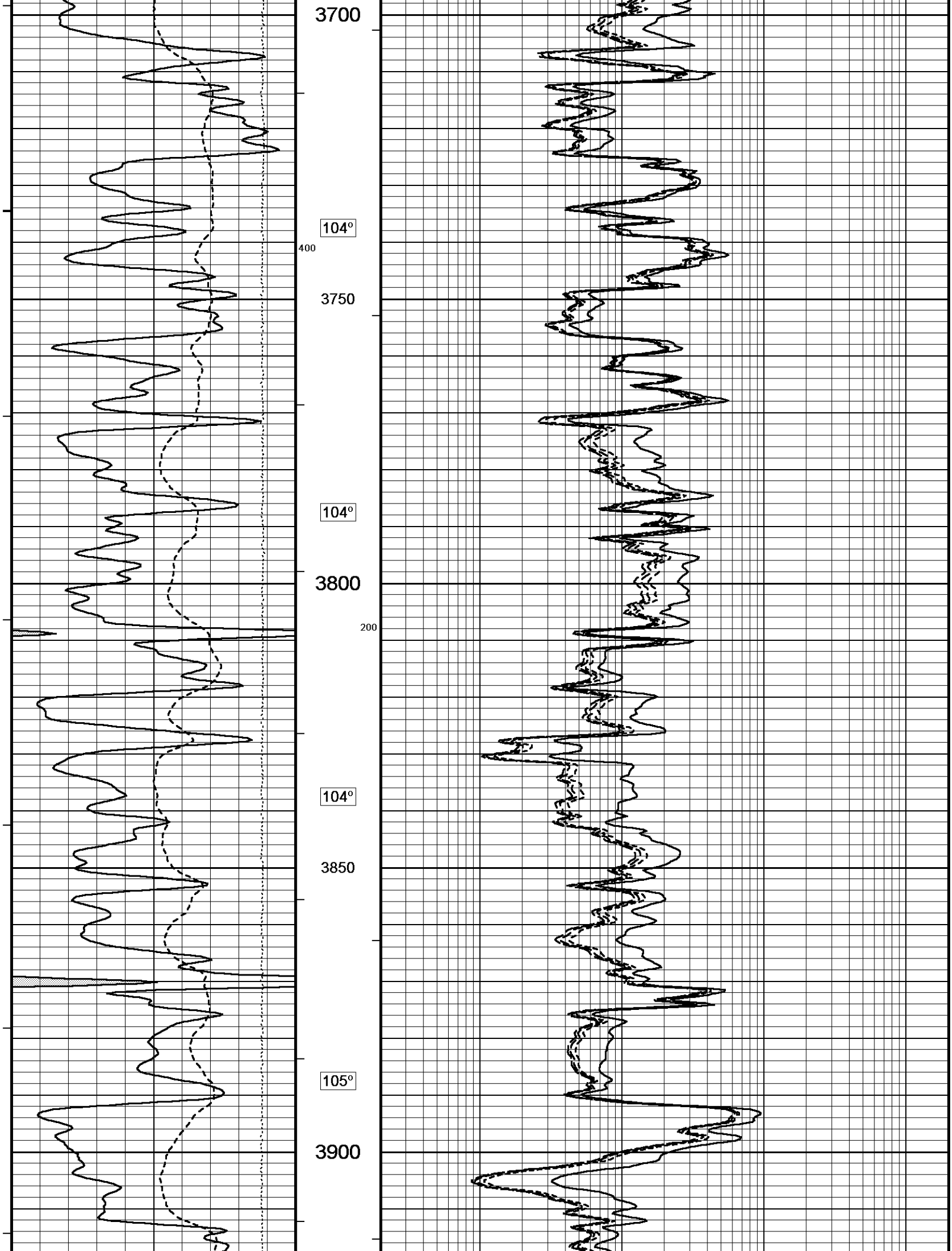

2600
500
98°
2650
99°
2700
99°
2750
800
99°
2800

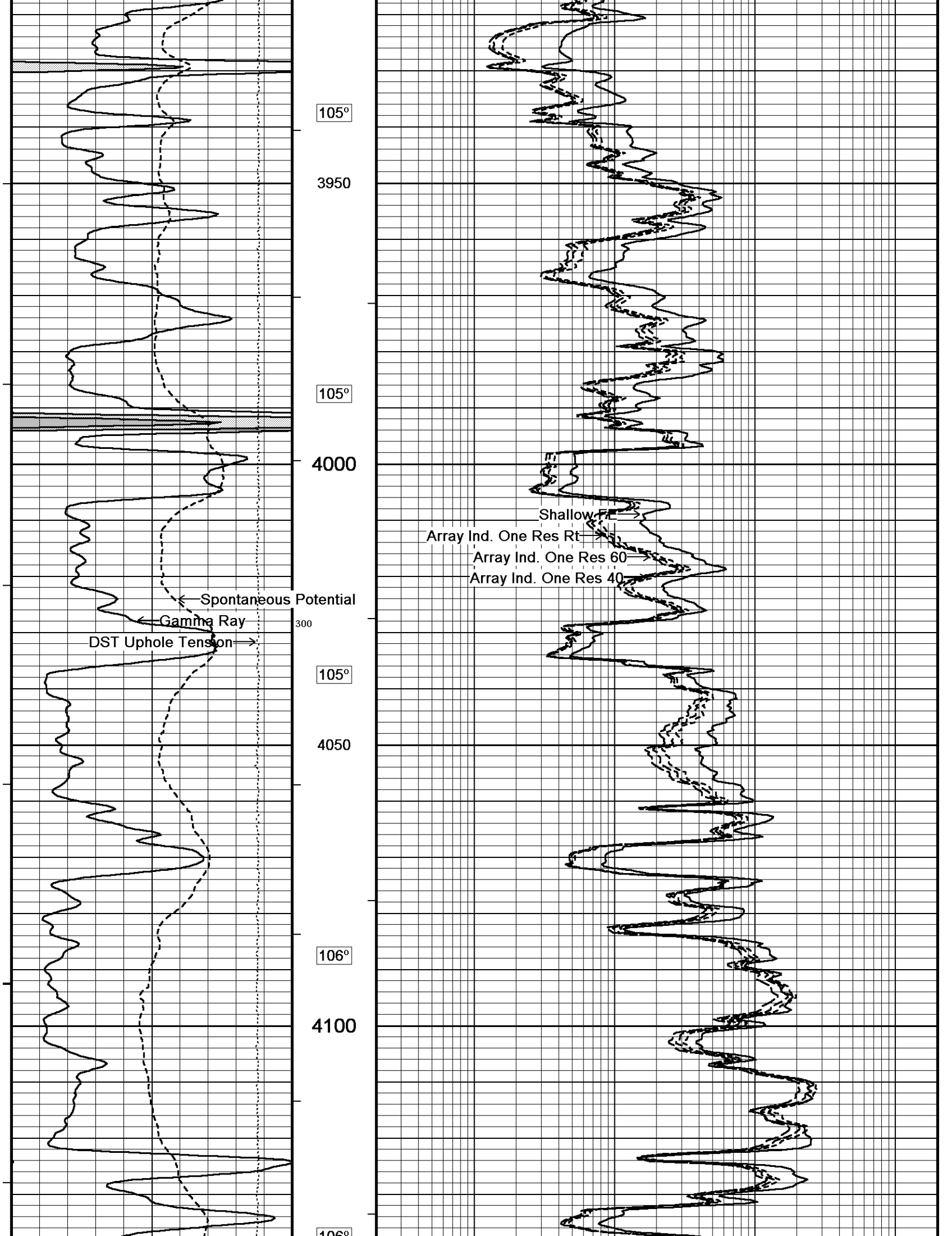

Shallow FE
Array Ind. One Res Rt
Array Ind. One Res 60
Array Ind. One Res 40
99°
Spontaneous Potential
Gamma Ray
DST Uphole Tension
2850
99°
2900
100°
2950
400
100°
700
3000
100°

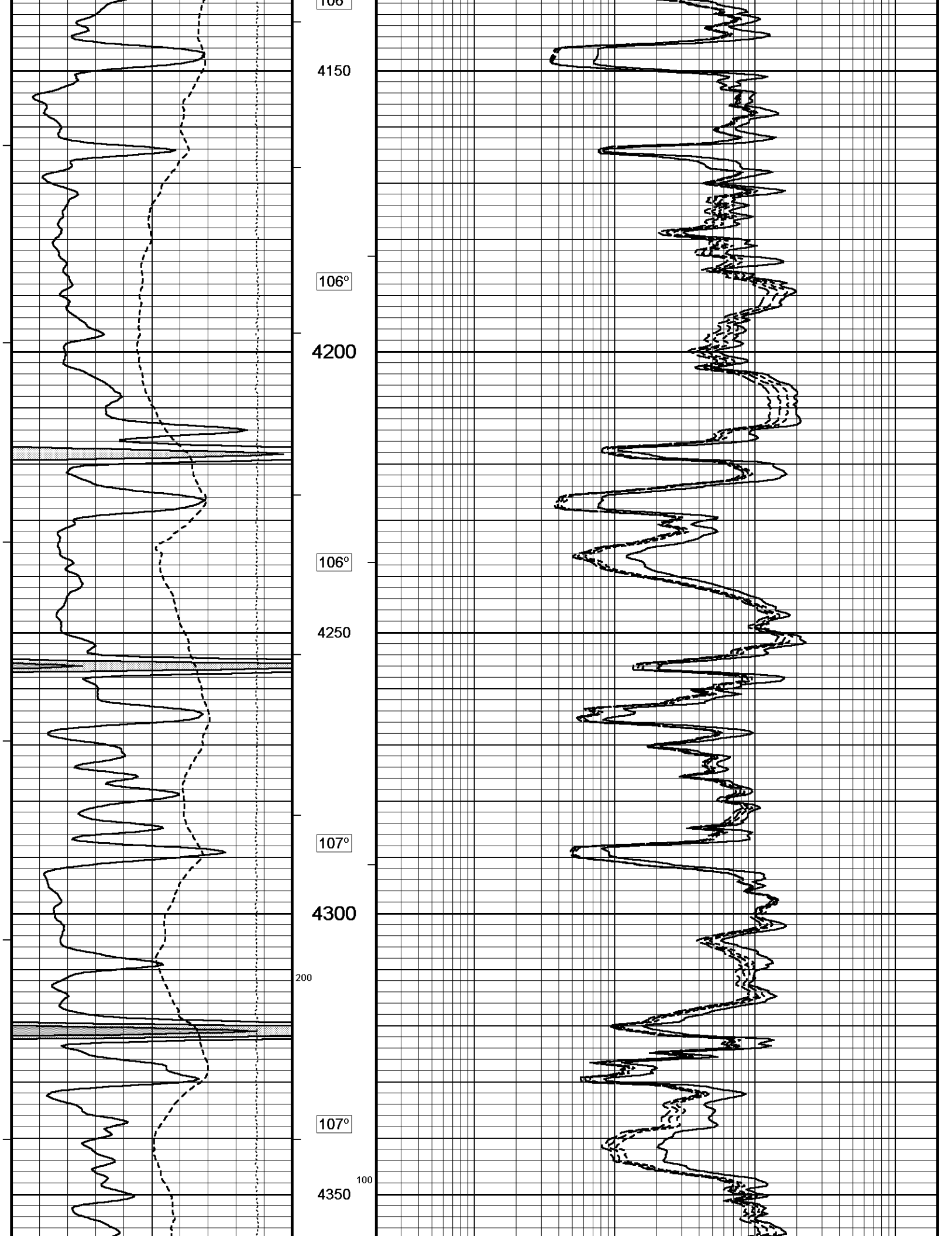

100
3050
100°
3100
100°
3150
101°
3200
Shallow FE
Array Ind. One Res Rt
600
Array Ind. One Res 60
Array Ind. One Res 40
Spontaneous Potential
101
Gamma Ray
DST Uphole Tension
3250

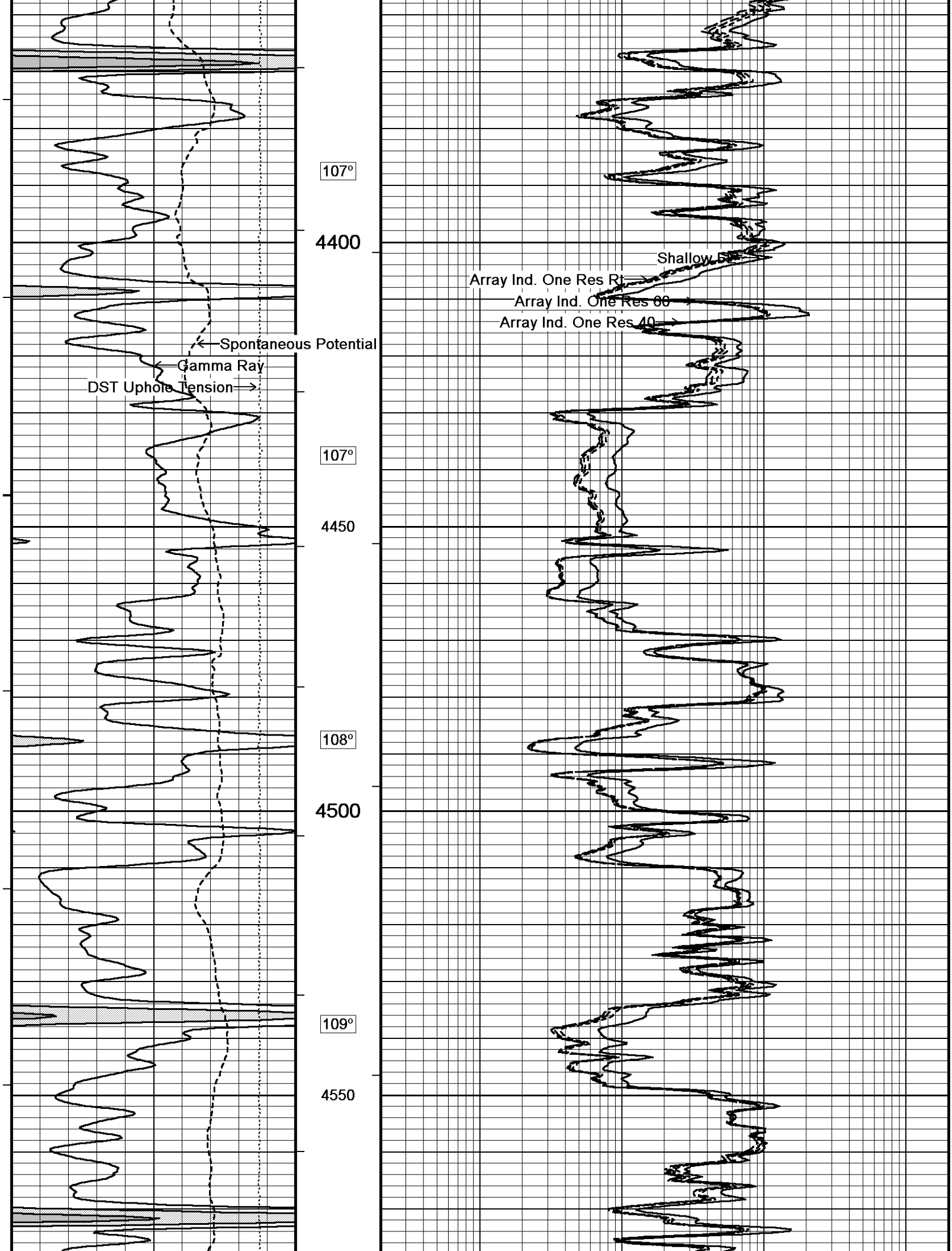

101°
3300
101° 300
3350
102°
3400
102°
3450

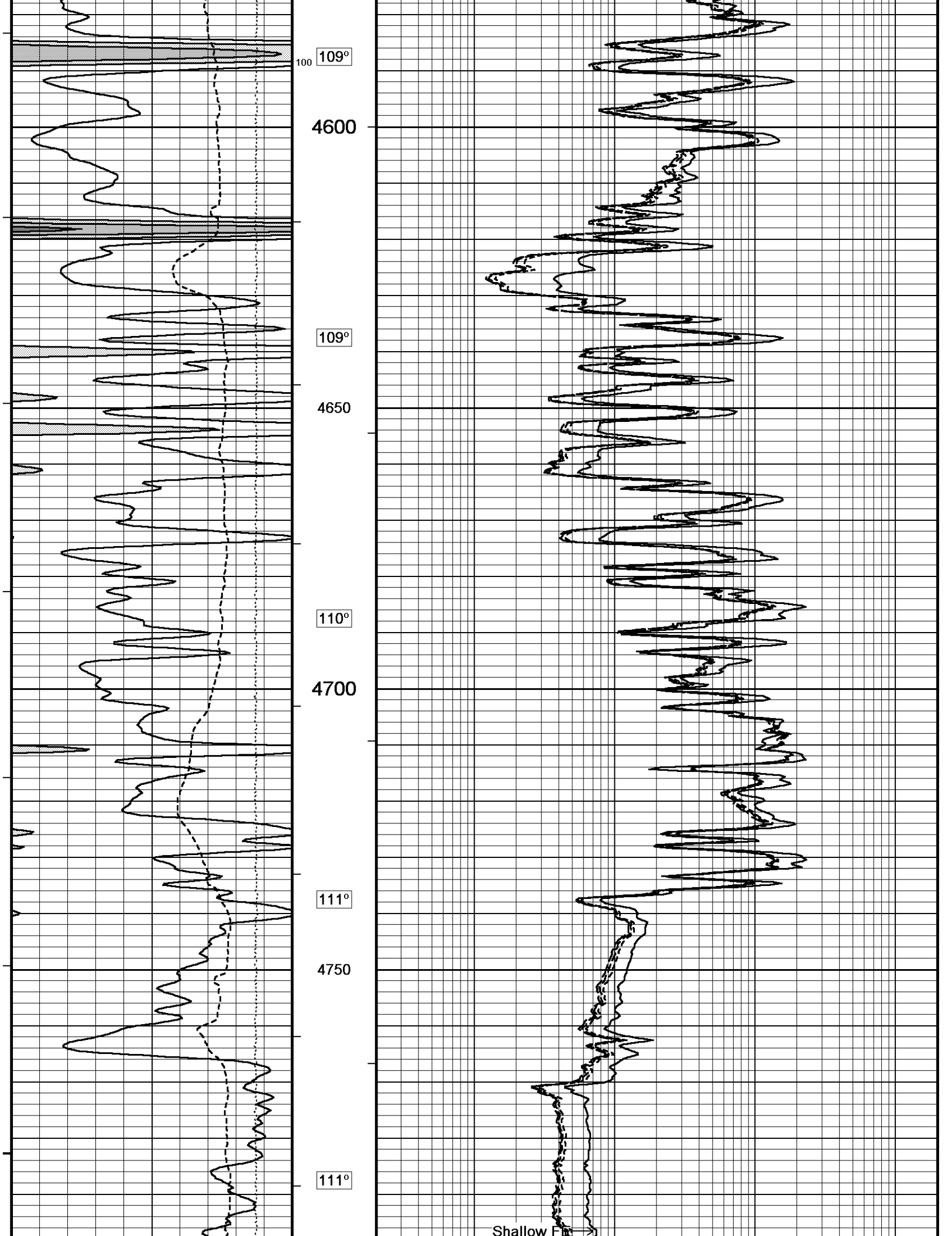

500
102°
3500
103°
3550
103°
3600
Shallow Rt
Array Ind. One Res Rt
Array Ind. One Res 60
Array Ind. One Res 40
Spontaneous Potential
Gamma Ray
DST Uphole Tension
103°
3650
103°

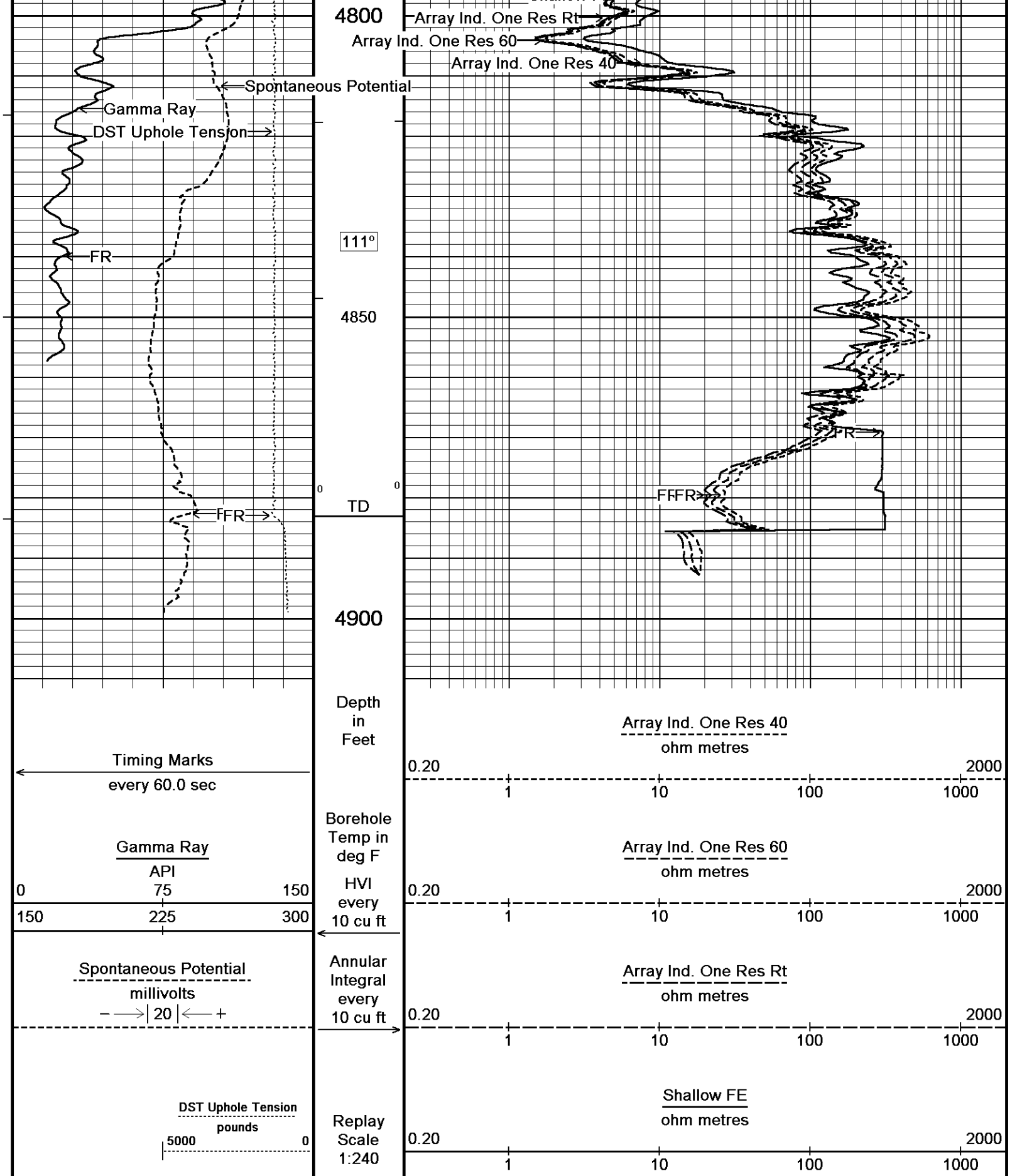

3700
104°
400
3750
104°
3800
200
104°
3850
105°
3900


105°
3950
105°
4000
Shallow Rt
Array Ind. One Res Rt
Array Ind. One Res 60
Array Ind. One Res 40
Spontaneous Potential
Gamma Ray
300
DST Uphole Tension
105°
4050
106°
4100
106°


106
4150
106°
4200
106°
4250
107°
4300
200
107°
4350
100


107°
4400
Shallow Res
Array Ind. One Res Rt
Array Ind. One Res 60
Array Ind. One Res 40
Spontaneous Potential
Gamma Ray
DST Uphole Tension
107°
4450
108°
4500
109°
4550


100
109°
4600
109°
4650
110°
4700
111°
4750
111°
Shallow Fl



Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 18-SEP-2014 17:15
Filename: C:\Minimus 13.08.2113\Log Data\Shakespeare...\Shakespeare Church of God #2-27 Main.dta
Recorded on 18-SEP-2014 15:17
System Versions: Logged with 13.08.2113 Plotted with 13.08.2113

5 INCH MAIN

REPEAT SECTION

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 18-SEP-2014 17:15
Filename: C:\Minimus 13.08.2113\Log Data\Shakespe...\Shakespeare Church of God #2-27 Repeat.dta
Recorded on 18-SEP-2014 14:54
System Versions: Logged with 13.08.2113 Plotted with 13.08.2113

Timing Marks
every 60.0 sec

Gamma Ray
API
0 75 150
150 225 300

Spontaneous Potential
millivolts
– → | 20 | ← +

DST Uphole Tension
pounds
5000 0

Depth in Feet

Borehole Temp in deg F

HVI every 10 cu ft

Annular Integral every 10 cu ft

Replay Scale 1:240

Array Ind. One Res 40
ohm metres
0.20 2000
1 10 100 1000

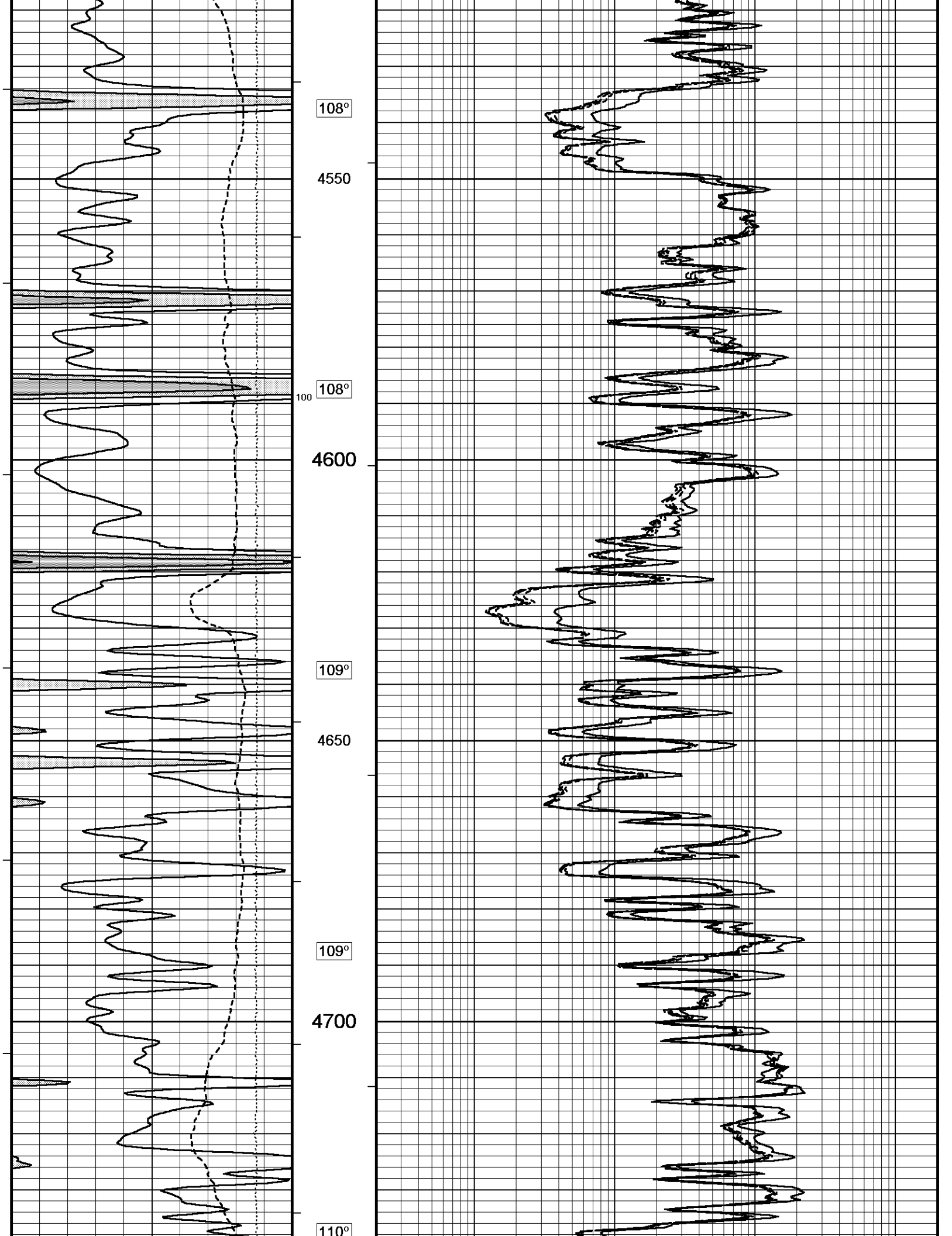
Array Ind. One Res 60
ohm metres
0.20 2000
1 10 100 1000

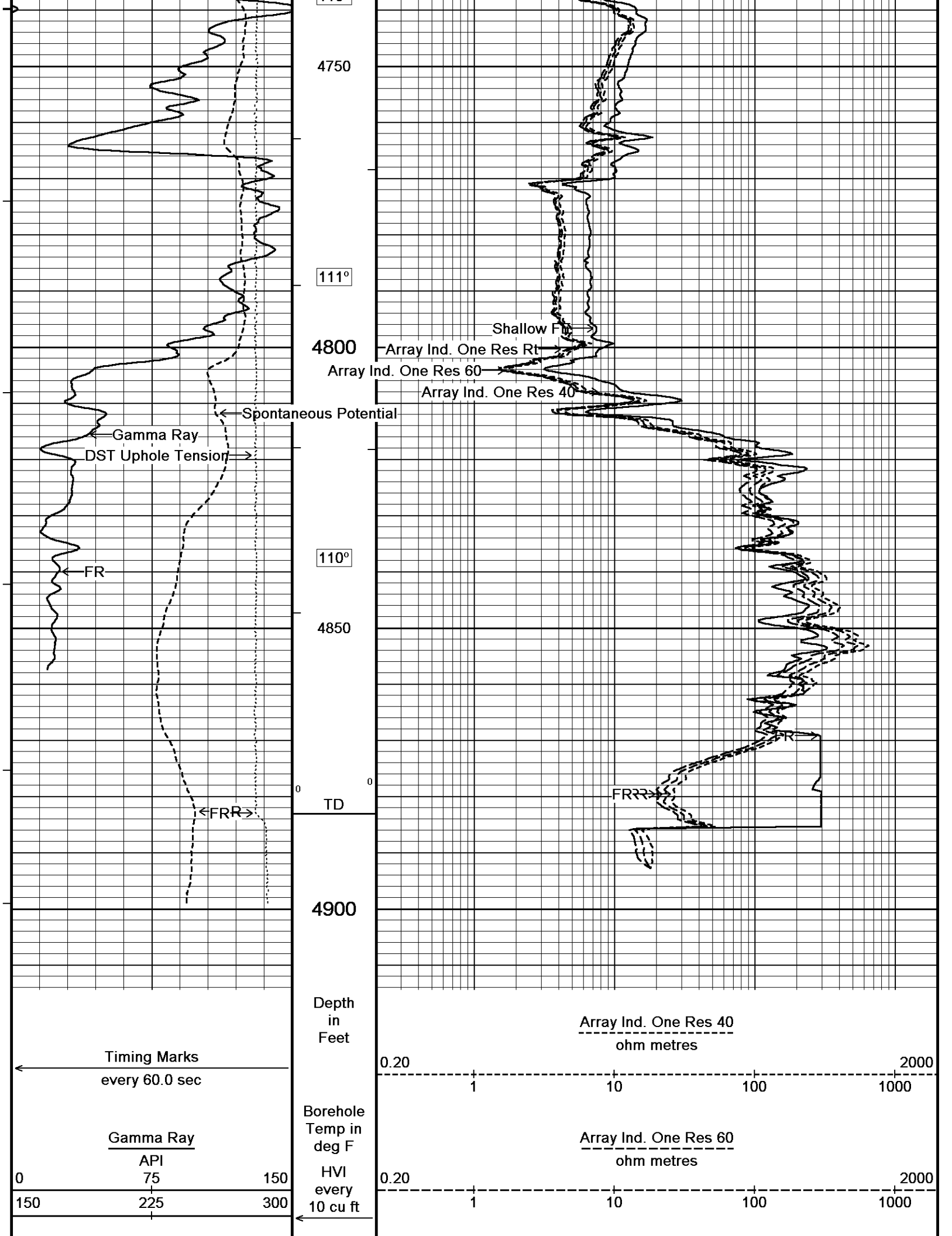
Array Ind. One Res Rt
ohm metres
0.20 2000
1 10 100 1000

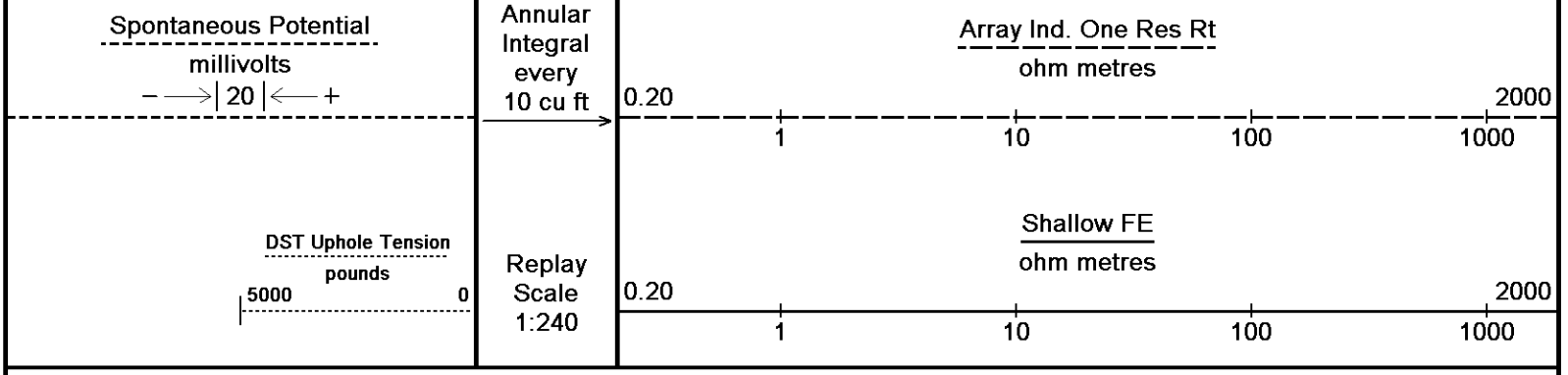
Shallow FE
ohm metres
0.20 2000
1 10 100 1000

4400
4450
4500

Shallow FE
Array Ind. One Res Rt
Array Ind. One Res 60
Array Ind. One Res 40
Spontaneous Potential
Gamma Ray
DST Uphole Tension
107°
108°


108°
4550
108°
100
4600
109°
4650
109°
4700
110°


4750
111°
4800
110°
4850
4900
TD
Shallow Rt
Array Ind. One Res Rt
Array Ind. One Res 60
Array Ind. One Res 40
Spontaneous Potential
Gamma Ray
DST Uphole Tension
FR
FRR
Depth in Feet
Timing Marks
every 60.0 sec
Gamma Ray
API
0
75
150
150
225
300
Borehole Temp in deg F
HVI every 10 cu ft
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



Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 18-SEP-2014 17:15
Filename: C:\Minimus 13.08.2113\Log Data\Shakespe...\Shakespeare Church of God #2-27 Repeat.dta — Recorded on 18-SEP-2014 14:54
System Versions: Logged with 13.08.2113 Plotted with 13.08.2113

REPEAT SECTION

BEFORE SURVEY CALIBRATION

C:\Minimus 13.08.2113\Log Data\Shakespeare Church of God #2-27\Shakespeare Church of God #2-27 Main.dta

General Constants All 000

Last Edited on 18-SEP-2014,13:21

General Parameters		
Mud Resistivity	0.600	ohm-metres
Mud Resistivity Temperature	75.000	degrees F
Water Level	0.000	feet
Borehole Fluid 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	None	
Rwa Parameters		
Porosity used	Crossplot Porosity	
Resistivity used	Array Ind. One Res Rt	
RWA Constant A	0.610	
RWA Constant M	2.150	
SW/APOR Tool Source	0.000	

FE Calibration MFE-B.J 353

Base Calibration on 16-SEP-2014 15:43
Field Check on 16-SEP-2014 15:48

Base Calibration

	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	963.8	126.8
Base Check		281.1
Field Check		281.1

FE Constants MFE-B.J 353

Last Edited on 18-SEP-2014,13:20

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

Induction Calibration MAI-A.A 178

Base Calibration on 04-SEP-2014,14:15
Field Check on 11-SEP-2014 11:11

Base Calibration

Test Loop Calibration Channel	Measured Low	Measured High	Calibrated (mmho/m) Low	Calibrated (mmho/m) High
1	17.6	484.7	9.3	966.2

2	6.2	391.4	7.6	821.4
3	4.0	264.5	5.2	566.0
4	2.3	135.1	2.6	279.2

Array Temperature 77.0 Deg F

Channel	Base Check (mmho/m)		Field Check (mmho/m)		
	Low	High	Low	High	
1	0.0	0.0	12.0	3762.9	
2	0.0	0.0	29.6	3467.2	
3	0.0	0.0	27.2	3014.4	
4	0.0	0.0	18.8	2064.8	
Deep			15.8	1995.4	
Medium			40.3	3955.7	
Shallow			45.5	5082.2	
Array Temperature		0.0		67.6	Deg F

Induction Constants MAI-A.A 178

Last Edited on 18-SEP-2014,13:20

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	

Gamma Calibration MCG-D.K 469

Field Calibration on 19-AUG-2014 08:47

	Measured	Calibrated (API)
Background	68	46
Calibrator (Gross)	1127	771
Calibrator (Net)	1059	725

Gamma Constants MCG-D.K 469

Last Edited on 17-SEP-2014,20:44

Gamma Calibrator Number	GRC038	
Mud Density	1.10	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl		kppm

Concentration of KCl		kppm
K Mud Type	Chloride	
K Mud Concentration	0.00	%

High Resolution Temperature Calibration MCG-D.K 469

Field Calibration on 12-MAY-2014,02:16

	Measured	Calibrated(Deg F)
Lower	10.00	10.00
Upper	100.00	100.00

High Resolution Temperature Constants MCG-D.K 469

Last Edited on 13-JUL-2014,14:53

Pre-filter Length	11

SP Calibration MCG-D.K 469

Field Calibration on 12-AUG-2014 12:46

	Measured	Calibrated (mV)
Reference 1	98.8	100.0
Reference 2	-100.9	-100.1

Caliper Calibration MPD-C.A 216

Base Calibration on 04-SEP-2014 11:25
Field Calibration on 11-SEP-2014 11:15

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	17824	3.99
2	27984	5.98
3	38032	7.97
4	47728	9.86
5	58896	11.92
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
7.92	7.97

DOWNHOLE EQUIPMENT

C:\Minimus 13.08.2113\Log Data\Shakespeare Church of God #2-27\Shakespeare Church of God #2-27 Main.dta

3/8" Triple Cone Cable Head (MCB C A)
MCB-C.A 234 LG: 1.58 ft WT: 15.4 lb OD: 2.240 in

Compact Comms Gamma
MCG-D.K 469 LG: 8.70 ft WT: 63.9 lb OD: 2.240 in

Compact Micro-log
MML-A 3 LG: 7.97 ft WT: 81.6 lb OD: 2.240 in

Compact Neutron
MDN-A.B 66 LG: 5.04 ft WT: 50.7 lb OD: 2.244 in

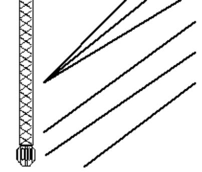
Compact Density/Caliper
MPD-C.A 216 LG: 9.59 ft WT: 90.4 lb OD: 2.449 in

Compact Focussed Electric
MFE-B.J 353 LG: 6.05 ft WT: 48.5 lb OD: 2.244 in

Compact Induction
MAI-A.A 178 LG: 10.81 ft WT: 48.5 lb OD: 2.244 in

42.87 ft	GRGC - Gamma Ray
39.96 ft	CGXT - MCG External Temperature
33.24 ft	MINV - Micro-inverse
33.24 ft	MNRL - Micro-normal
34.24 ft	MLTC - MML Caliper
28.45 ft	NPRL - Limestone Neutron Por.
21.21 ft	CLDC - Density Caliper
21.21 ft	AVOL - Annular Volume
21.21 ft	HVOL - Hole Volume
19.28 ft	DEN - Compensated Density
19.28 ft	DCOR - Density Correction
19.28 ft	DPRL - Limestone Density Por.
19.22 ft	PDPE - PE
13.72 ft	FEFE - Shallow FE
3.34 ft	R40O - Array Ind. One Res 40
3.34 ft	R1AO - Array Ind. One Res R1
3.34 ft	R60O - Array Ind. One Res 60

Total Length: 49.73 ft Weight: 399.0 lb



COMPANY	SHAKESPEARE OIL CO., INC.
WELL	CHURCH OF GOD #2-27
FIELD	PENCE
PROVINCE/COUNTY	SCOTT
COUNTRY/STATE	U.S.A. / KANSAS

Elevation Kelly Bushing	3129.00	feet	First Reading	263.00	feet
Elevation Drill Floor	3127.00	feet	Depth Driller	4890.00	feet
Elevation Ground Level	3119.00	feet	Depth Logger	4883.00	feet

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SHALLOW FOCUSED
ELECTRIC LOG

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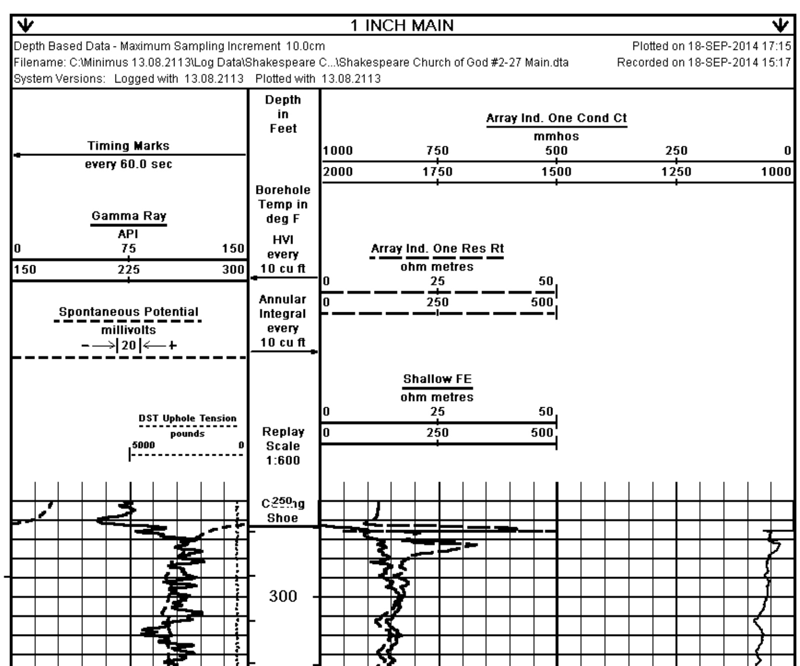
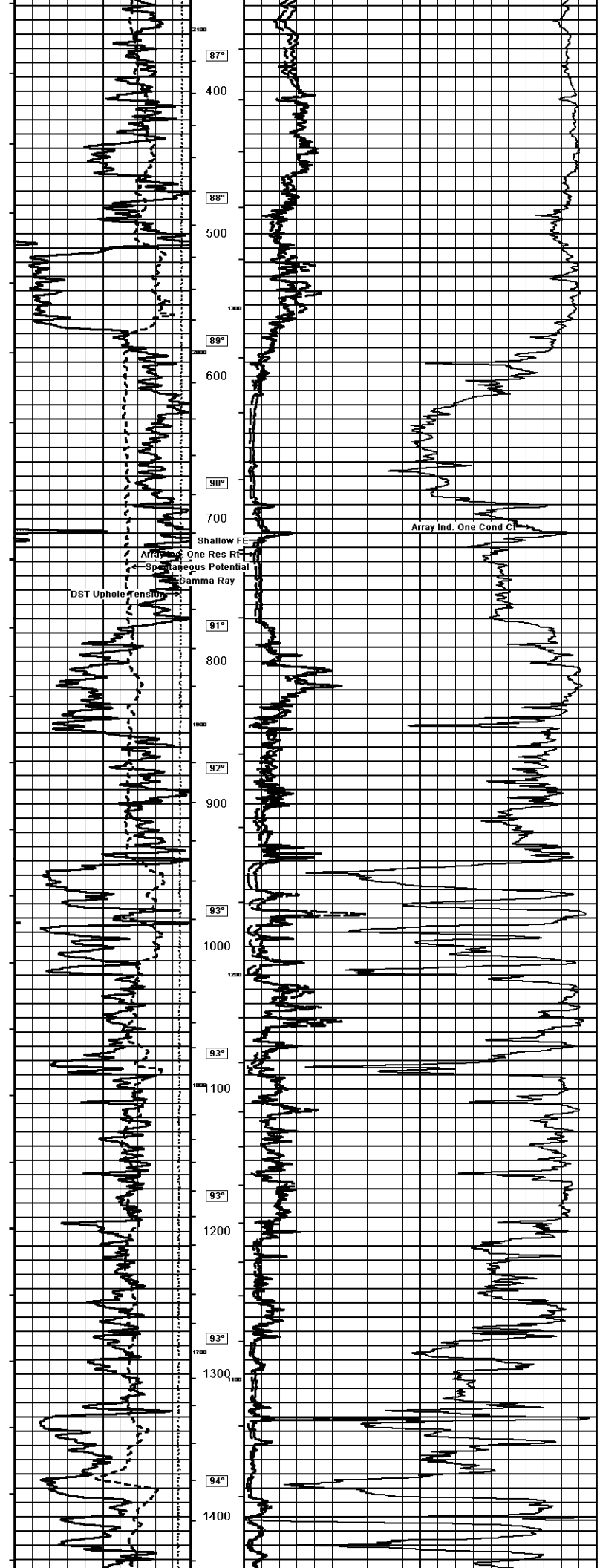
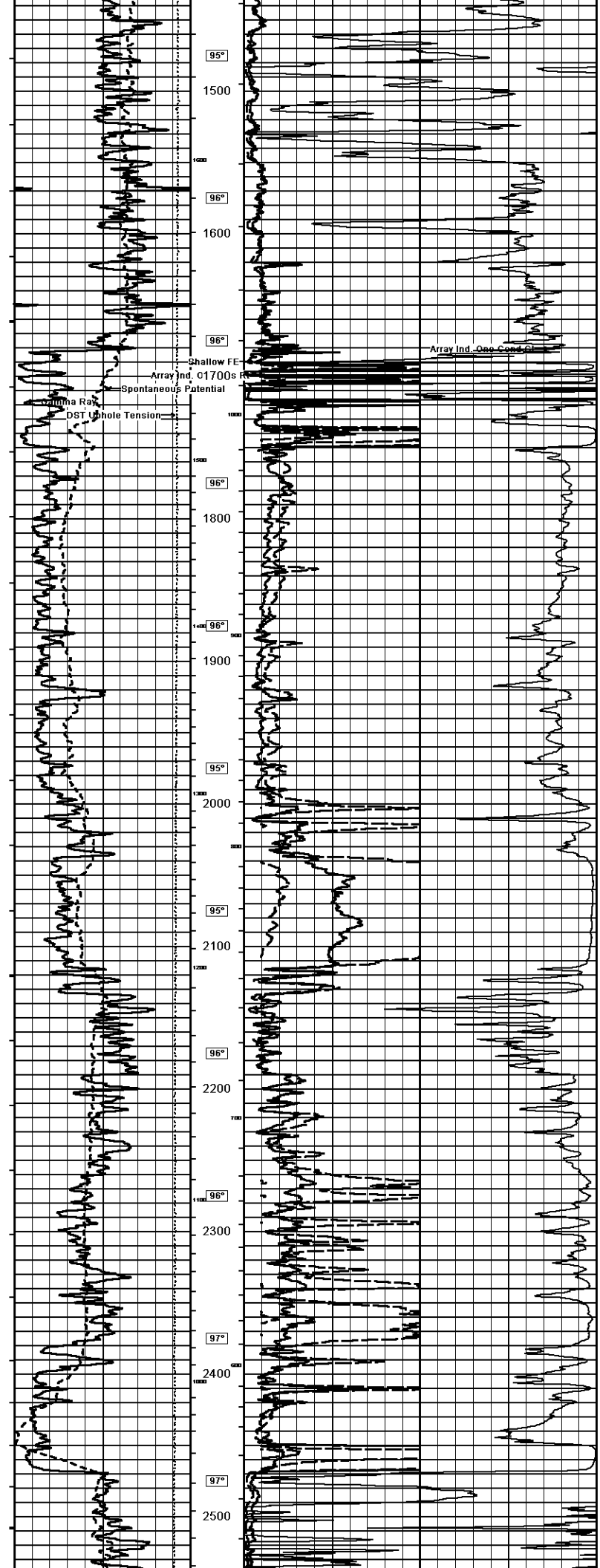
COMPANY	SHAKESPEARE OIL CO., INC.		
WELL	CHURCH OF GOD #2-27		
FIELD	PENCE		
PROVINCE/COUNTY	SCOTT		
COUNTRY/STATE	U.S.A. / KANSAS		
LOCATION	2305' FNL & 50' FEL NE SE SE NE		
PERMIT NUMBER			
SEC 27 TWP 16S RGE 34W	Other Services		
Latitude	38.63521635	MPD/MDN	MML
Longitude	101.05455697		
API Number	15-171-21086		
Permanent Datum GL, Elevation 3119 feet		Elevations:	feet
Log Measured From KB		KB	3129.00
Drilling Measured From KB @ 10 FEET		DF	3127.00
		GL	3119.00
Date	18-SEP-2014		
Run Number	ONE		
Service Order	7960-98252230		
Depth Driller	4890.00	feet	
Depth Logger	4883.00	feet	
First Reading	263.00	feet	
Last Reading	4879.66	feet	
Casing Driller	268.00	feet	
Casing Logger	263.00	feet	
Bit Size	7.875	inches	
Hole Fluid Type	WBM		
Density / Viscosity	9.20 lb/USg	54.00 CP	
PH / Fluid Loss	11.00	8.80 ml/30Min	
Sample Source	MUDPIT		
Rm @ Measured Temp	0.60 @ 75.0	ohm-m	
Rmf @ Measured Temp	0.48 @ 75.0	ohm-m	
Rmc @ Measured Temp	0.72 @ 75.0	ohm-m	
Source Rmf / Rmc	CALC	CALC	
Rm @ BHT	0.41 @ 111.0	ohm-m	
Time Since Circulation	4 HOURS		
Max Recorded Temp	112.00	deg F	
Equipment / Base	13096	LIB	
Recorded By	DEREK CARTER		JAKE HINES
Witnessed By	TIM PRIEST		
JOB #	LB14-282		

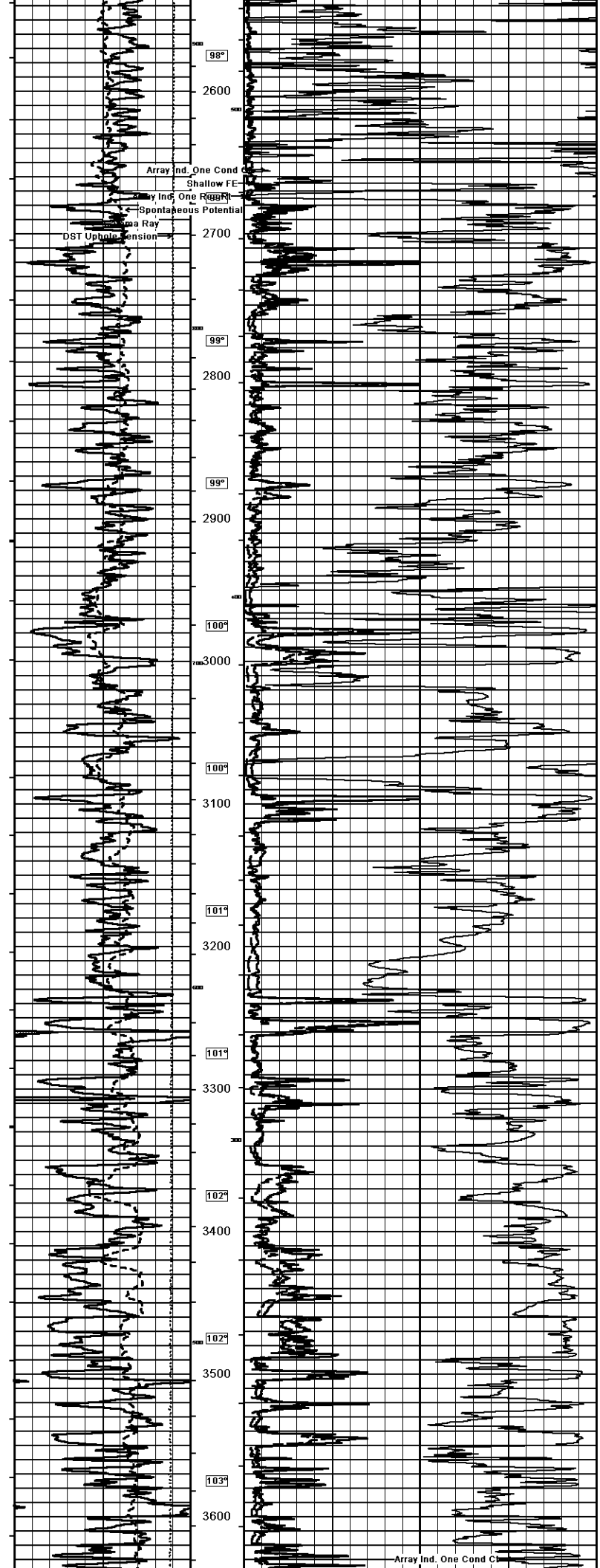
1 INCH MAIN

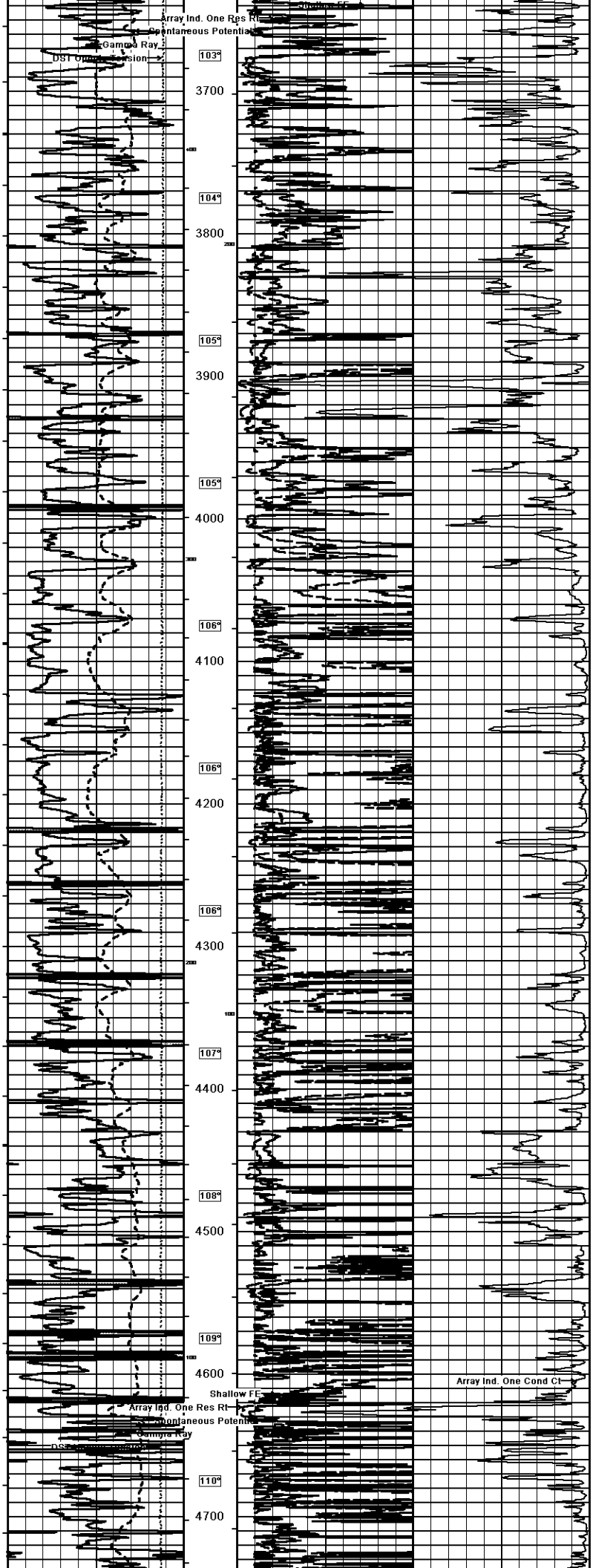
Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\Minimus 13.08.2113\Log Data\Shakespeare C...\Shakespeare Church of God #2-27 Main.dta
System Versions: Logged with 13.08.2113 Plotted with 13.08.2113
Plotted on 18-SEP-2014 17:15
Recorded on 18-SEP-2014 15:17

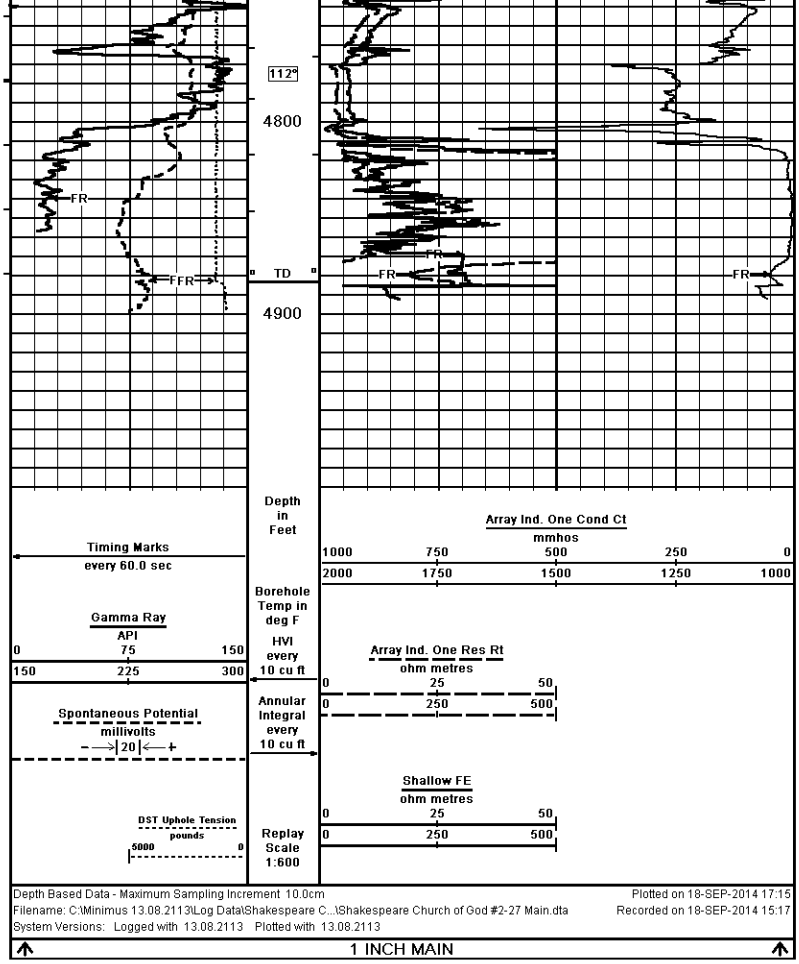



87°
400
88°
500
89°
600
90°
700
Shallow FE
Array Ind. One Res RF
Spontaneous Potential
Gamma Ray
DST Uphole Tension
Array Ind. One Cond CF
91°
800
92°
900
93°
1000
93°
1100
93°
1200
93°
1300
94°
1400


Shallow FE
Array Ind. 01700s R
Spontaneous Potential
Gamma Ray
DST Uphole Tension
Array Ind. One Cond Cl
95°
96°
97°
1500
1600
1800
1900
2000
2100
2200
2300
2400
2500


98°
2600
Array Ind. One Cond
Shallow FE
Array Ind. One R
Spontaneous Potential
Gamma Ray
DST Uphole Tension
2700
99°
2800
99°
2900
100°
3000
100°
3100
101°
3200
101°
3300
102°
3400
102°
3500
103°
3600
Array Ind. One Cond


Array Ind. One Res Rt
Spontaneous Potential
Gamma Ray
DST Differential Tension
103°
3700
104°
3800
105°
3900
105°
4000
106°
4100
106°
4200
106°
4300
107°
4400
108°
4500
109°
4600
Shallow FE
Array Ind. One Res Rt
Spontaneous Potential
Gamma Ray
Array Ind. One Cond Ct
110°
4700



Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 18-SEP-2014 17:15

Filename: C:\Minimus 13.08.2113\Log Data\Shakespeare C...\Shakespeare Church of God #2-27 Main.dta — Recorded on 18-SEP-2014 15:17

System Versions: Logged with 13.08.2113 Plotted with 13.08.2113

1 INCH MAIN

COMPANY	SHAKESPEARE OIL CO., INC.
WELL	CHURCH OF GOD #2-27
FIELD	PENCE
PROVINCE/COUNTY	SCOTT
COUNTRY/STATE	U.S.A. / KANSAS

Elevation Kelly Bushing	3129.00	feet	First Reading	263.00	feet
Elevation Drill Floor	3127.00	feet	Depth Driller	4890.00	feet
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