ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG

Weatherford

COMPANY	SANDRIDGE ENERGY, INC.
WELL	SHEA 1-17 SWD
FIELD	STRANATHAN
PROVINCE/COUNTY	HARPER
COUNTRY/STATE	U.S.A/ KANSAS
LOCATION	232' FSL & 236' FEL

40 Years of Wireline 1970 2010

SEC	TWP	RGE
17	35S	7W

Other Services
MDN/MPD MML
CMI
MBN

API Number 15-077-21781
Permit Number

Permanent Datum G.L., Elevation 1284 feet
Log Measured From KB
Drilling Measured From K.B.

Elevations:	feet
KB	1301.50
DF	1299.50
GL	1284.00

Date	27-JAN-2012				
Run Number	ONE				
Depth Driller	5737.00	feet			
Depth Logger	5740.00	feet			
First Reading	5737.00	feet			
Last Reading	831.00	feet			
Casing Driller	829.00	feet			
Casing Logger	831.00	feet			
Bit Size	9.875	inches			
Hole Fluid Type	WBM				
Density / Viscosity	9.25	lb/USg	55.00	CP	
PH / Fluid Loss	9.50		7.20	ml/30Min	
Sample Source	FLOWLINE				
Rm @ Measured Temp	0.90 @ 83.0	ohm-m			
Rmf @ Measured Temp	0.72 @ 83.0	ohm-m			
Rmc @ Measured Temp	1.08 @ 83.0	ohm-m			
Source Rmf / Rmc	CALC	CALC			
Rm @ BHT	0.53 @140.0	ohm-m			
Time Since Circulation	8 HOURS				
Max Recorded Temp	140.00	deg F			
Equipment Name	COMPACT				
Equipment / Base	13226	OKC			
Recorded By	BROWN ALLEN		JERROD MONROE		
Witnessed By	TAMMY ALCORN				
	3535032				

BOREHOLE RECORD

Last Edited: 27-JAN-2012 09:10

Bit Size inches	Depth From feet	Depth To feet
9.875	829.00	5737.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	10.750	0.00	829.00	32.00

REMARKS

TOOLS RAN: SHA 45, MCG 431, MBN 093, MMR 06, MDN 10, MPD 03, MFE 65, MAI 102 RAN IN COMBINATION

HARDWARE: MAI: TWO 0.5 INCH STANDOFFS USED.
MDN: DUAL NEUTRON BOW SPRINGS USED.
MPD: 8 INCH PROFILE PLATE USED.

2.71 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY
ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.

TOTAL HOLE VOLUME FROM TD TO SURFACE CASING = 3370CU.FT.
ANNULAR HOLE VOLUME WITH 7.625 INCH PRODUCTION CASING FROM TD TO SURFACE CASING = 2820CU.FT.

SERVICE ORDER: 3535032

OPERATOR: PHILIP BURGER

RIG: LAMUNYON DRILLING #1

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 LOG

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 27-JAN-2012 11:53
Filename: C:\Program Files\Weatherford\WLS 12.03\DATA\SANDRIDGE (...\SHEA 1-17 SWD_002.dta
Recorded on 27-JAN-2012 08:20
System Versions: Logged with 12.03.5032 Plotted with 12.03.5032

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

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

Shallow FE
ohm metres
0 25 50
0 250 500

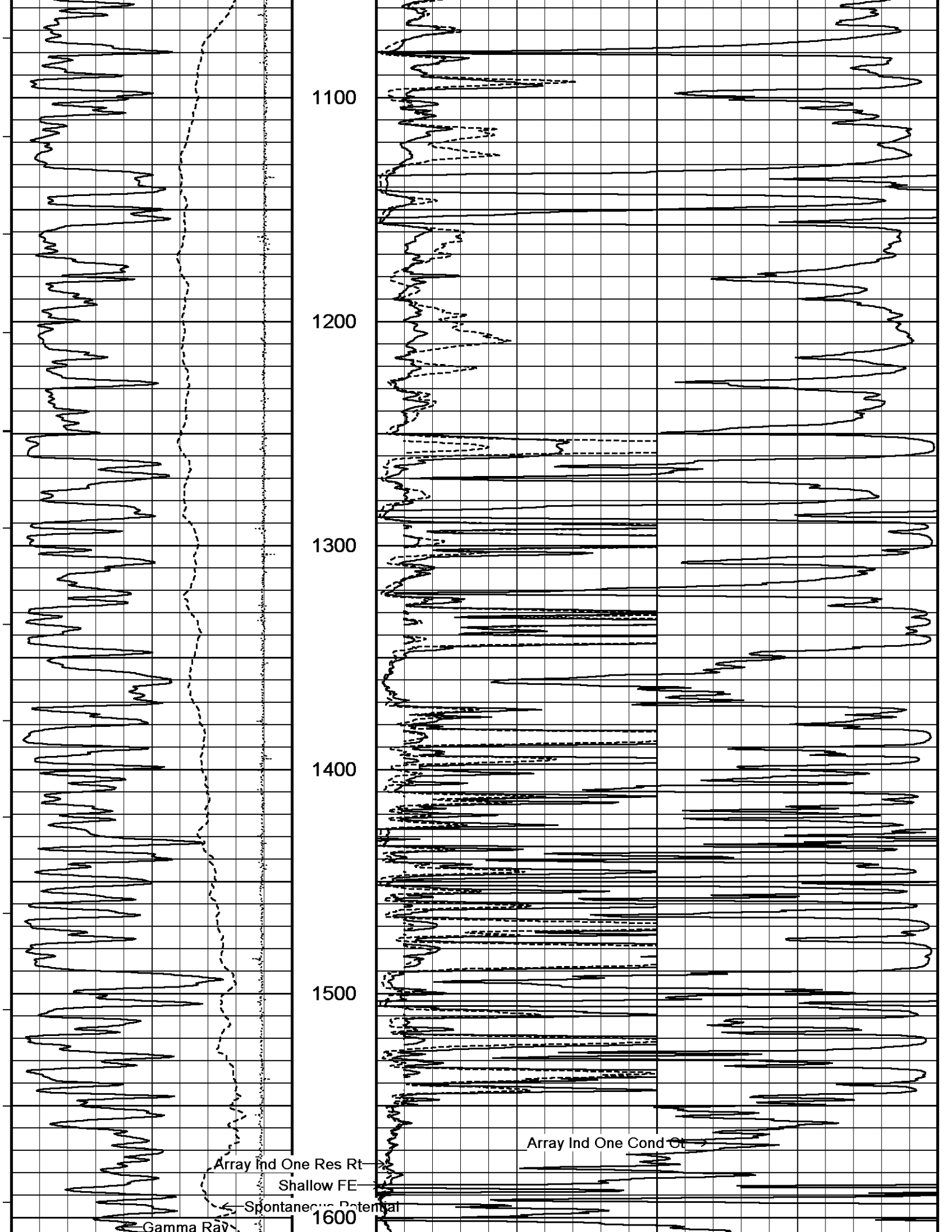
Array Ind One Res Rt
ohm metres
0 25 50
0 250 500

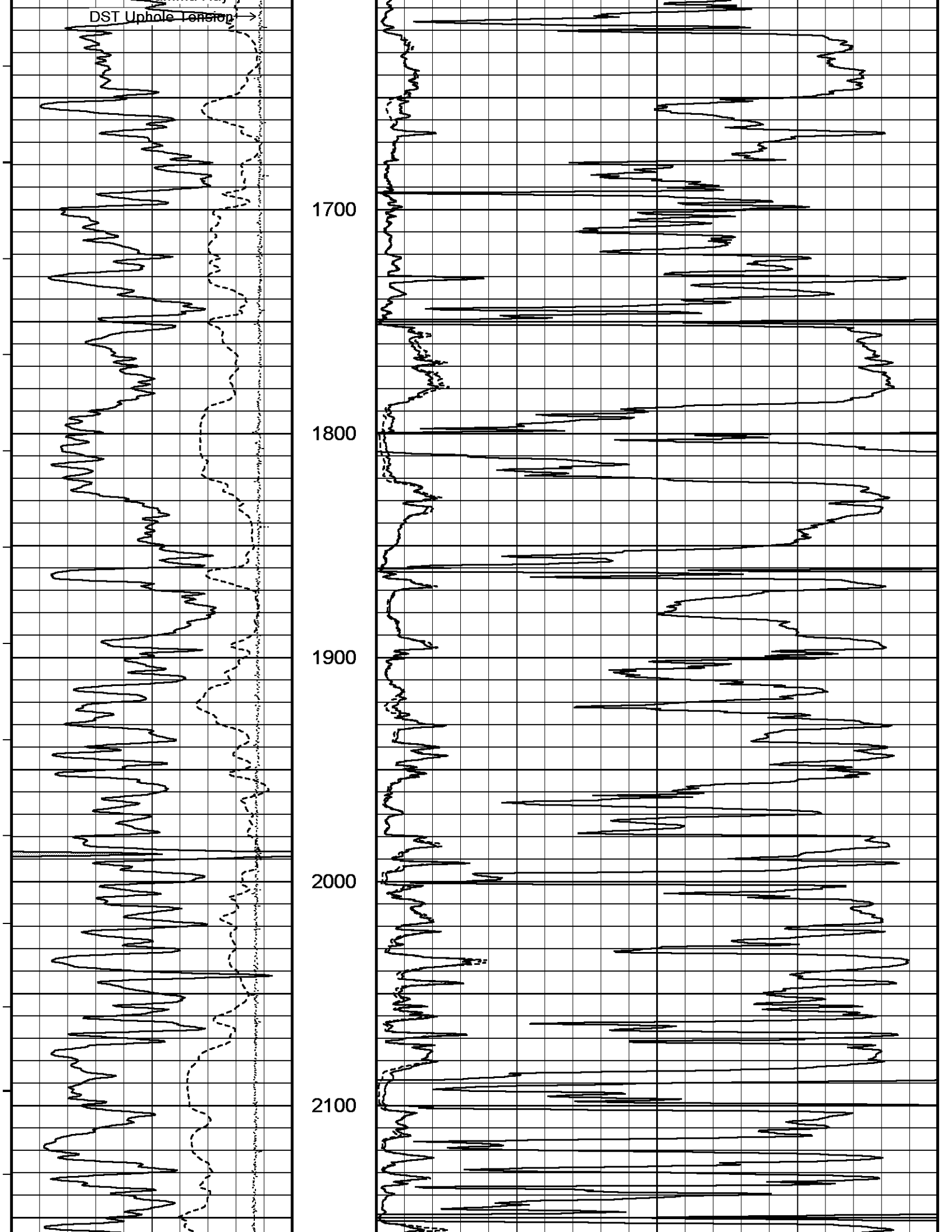
Replay Scale 1:600

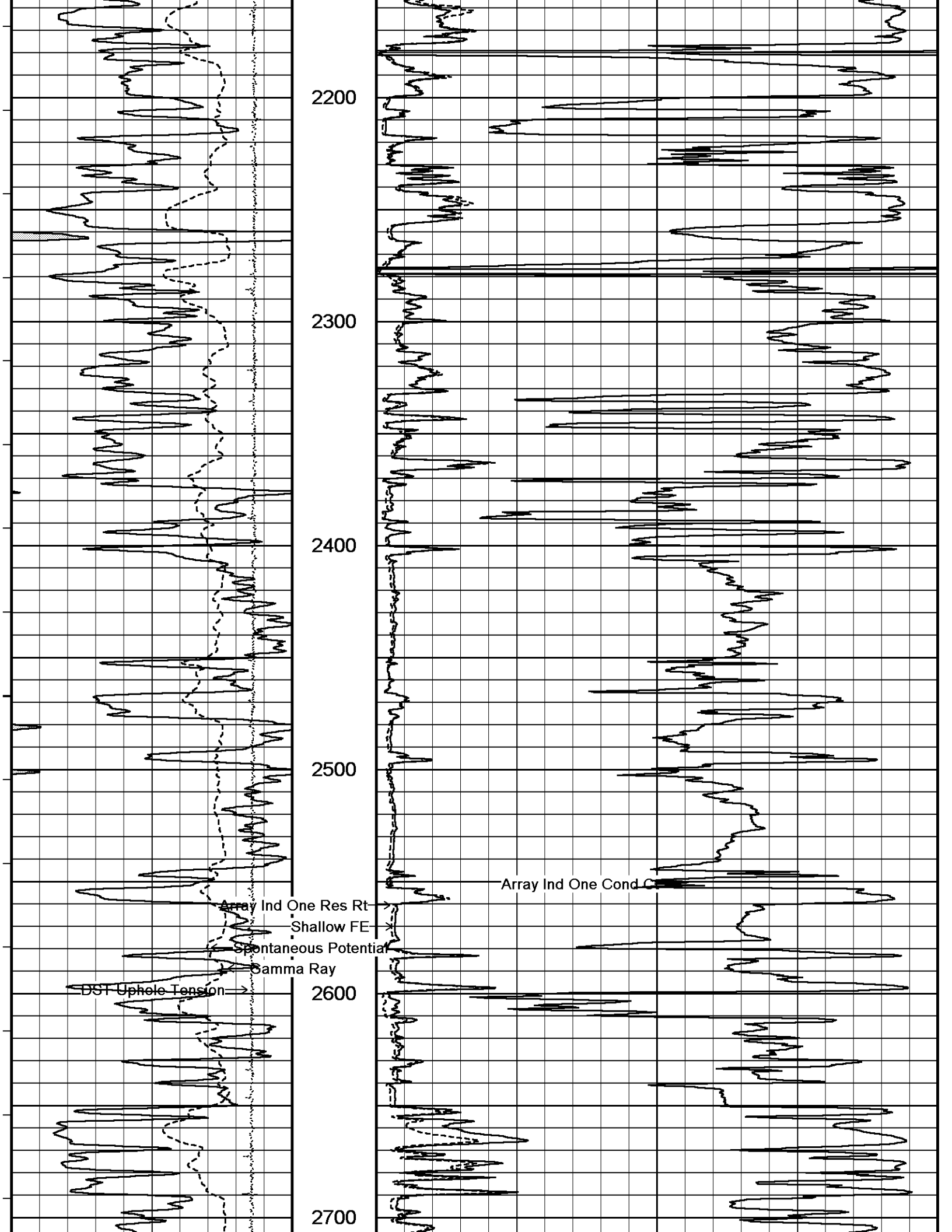
C:820ig Shoe

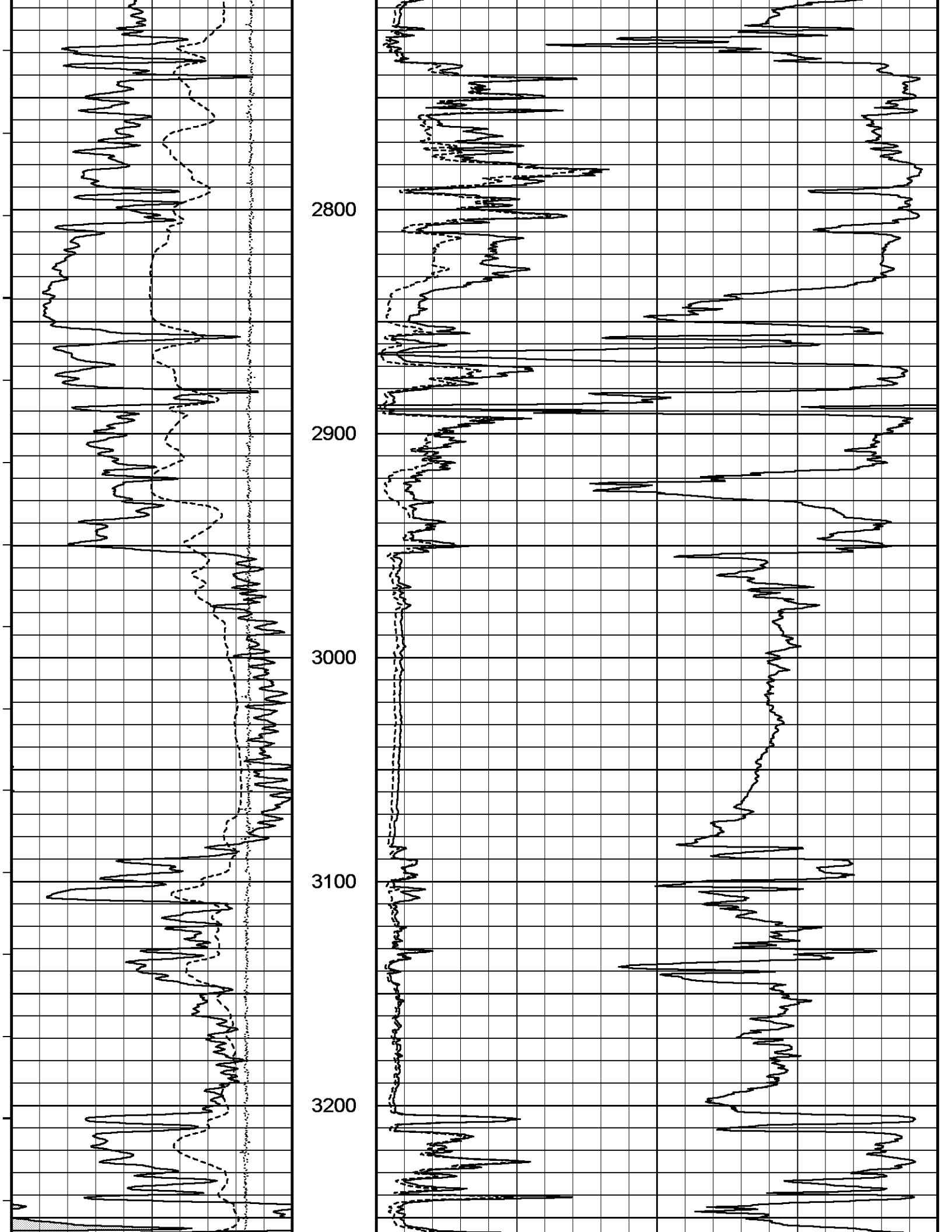
900

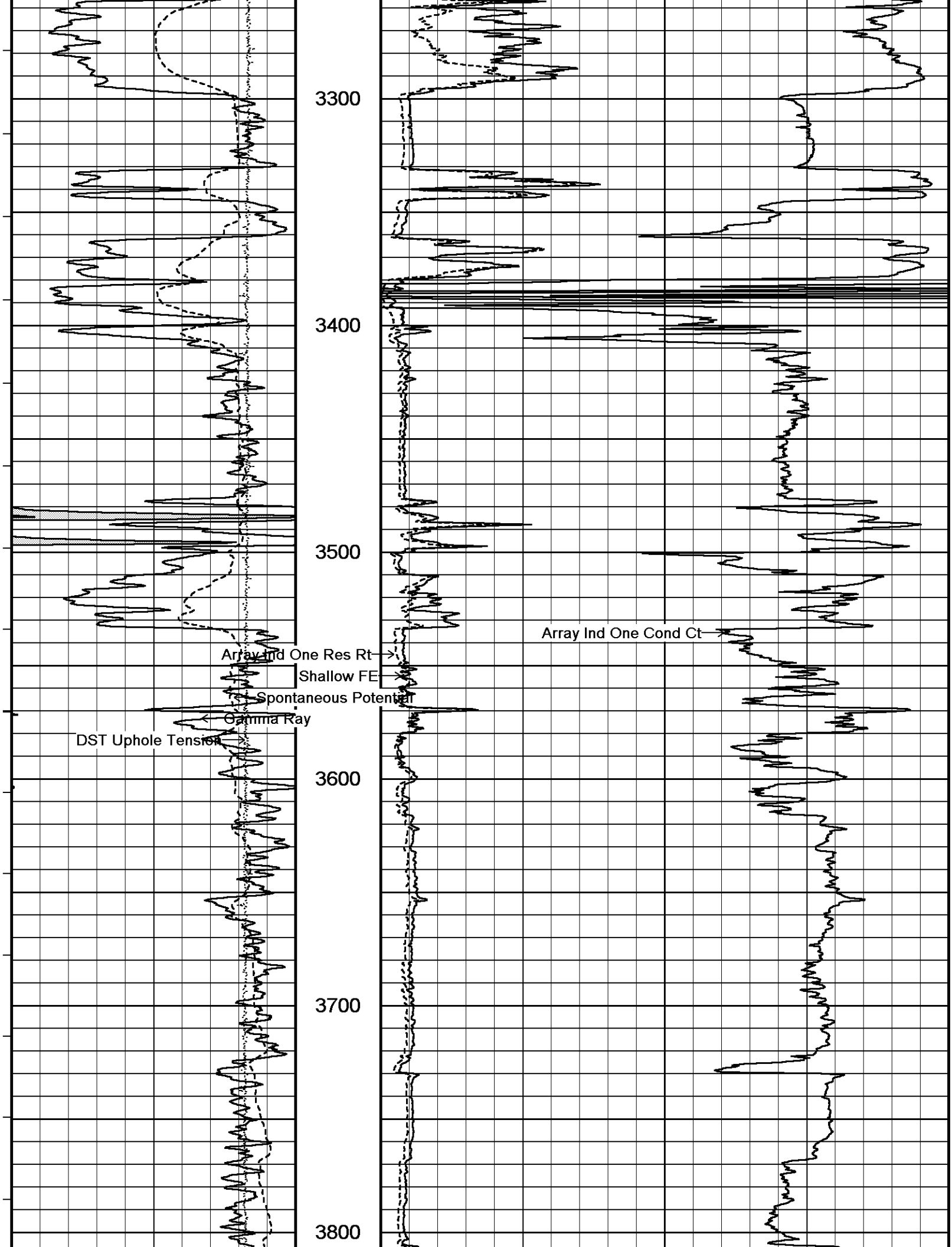
1000

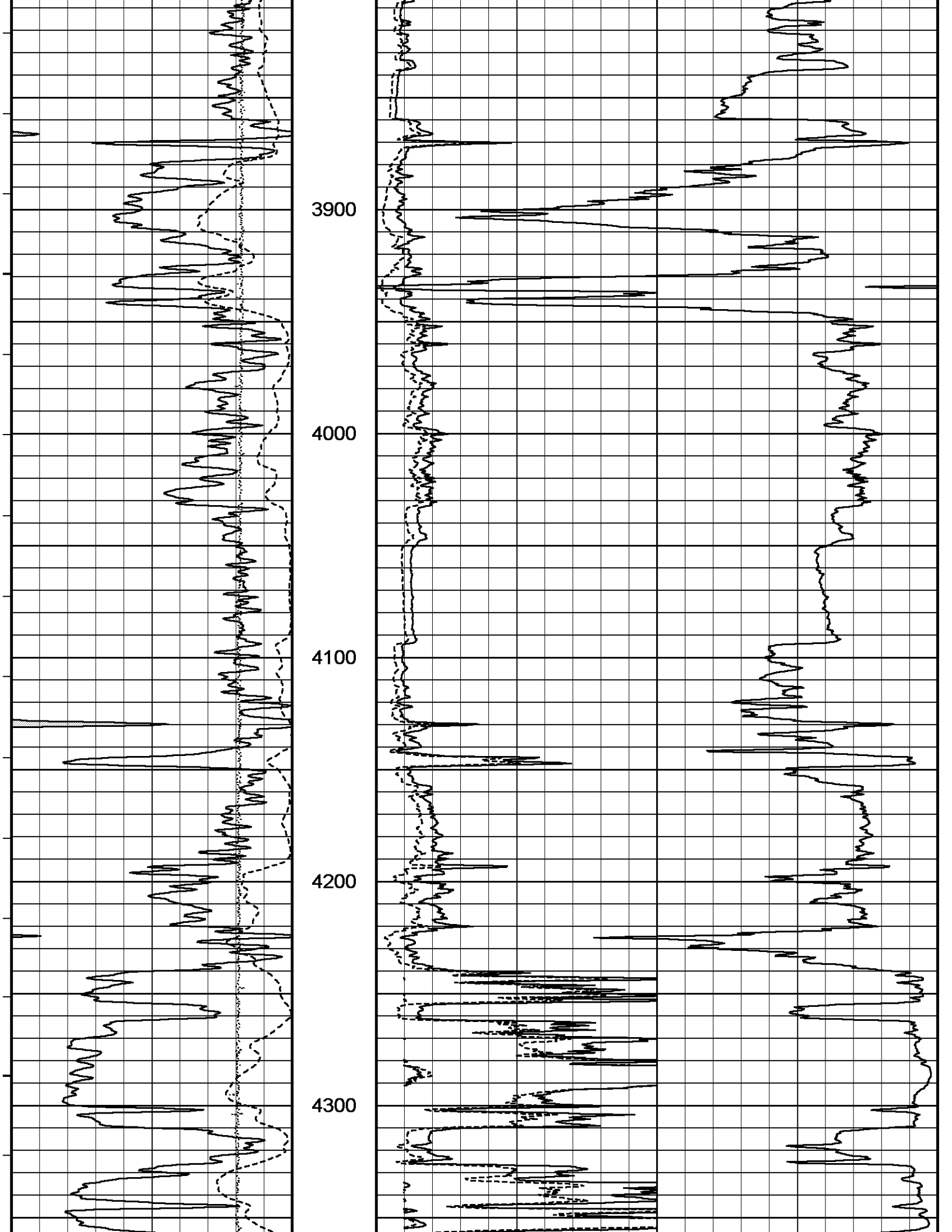

1100
1200
1300
1400
1500
1600
Array Ind One Cond Ct
Array Ind One Res Rt
Shallow FE
Spontaneous Potential
Gamma Ray

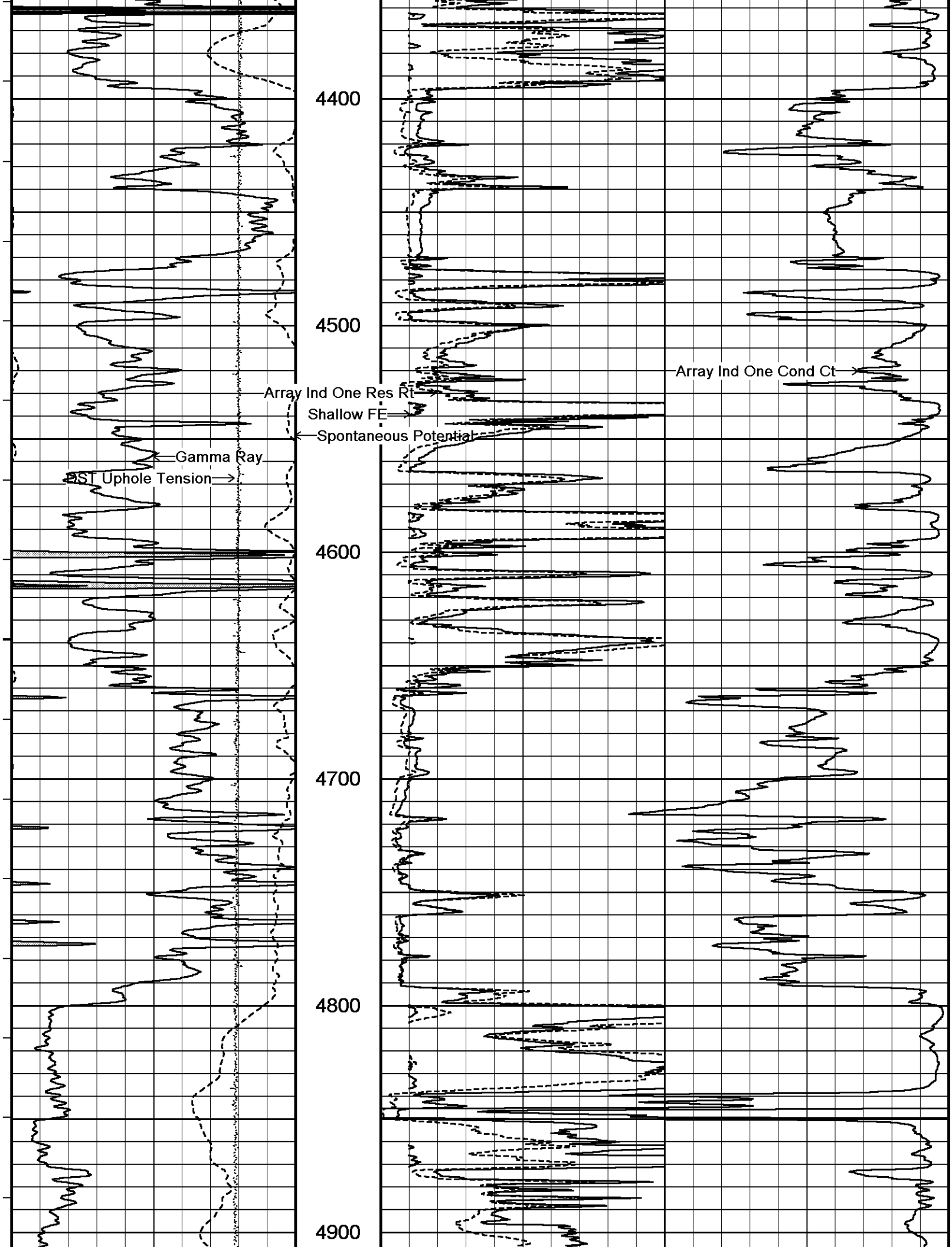

DST Uphole Tension
1700
1800
1900
2000
2100

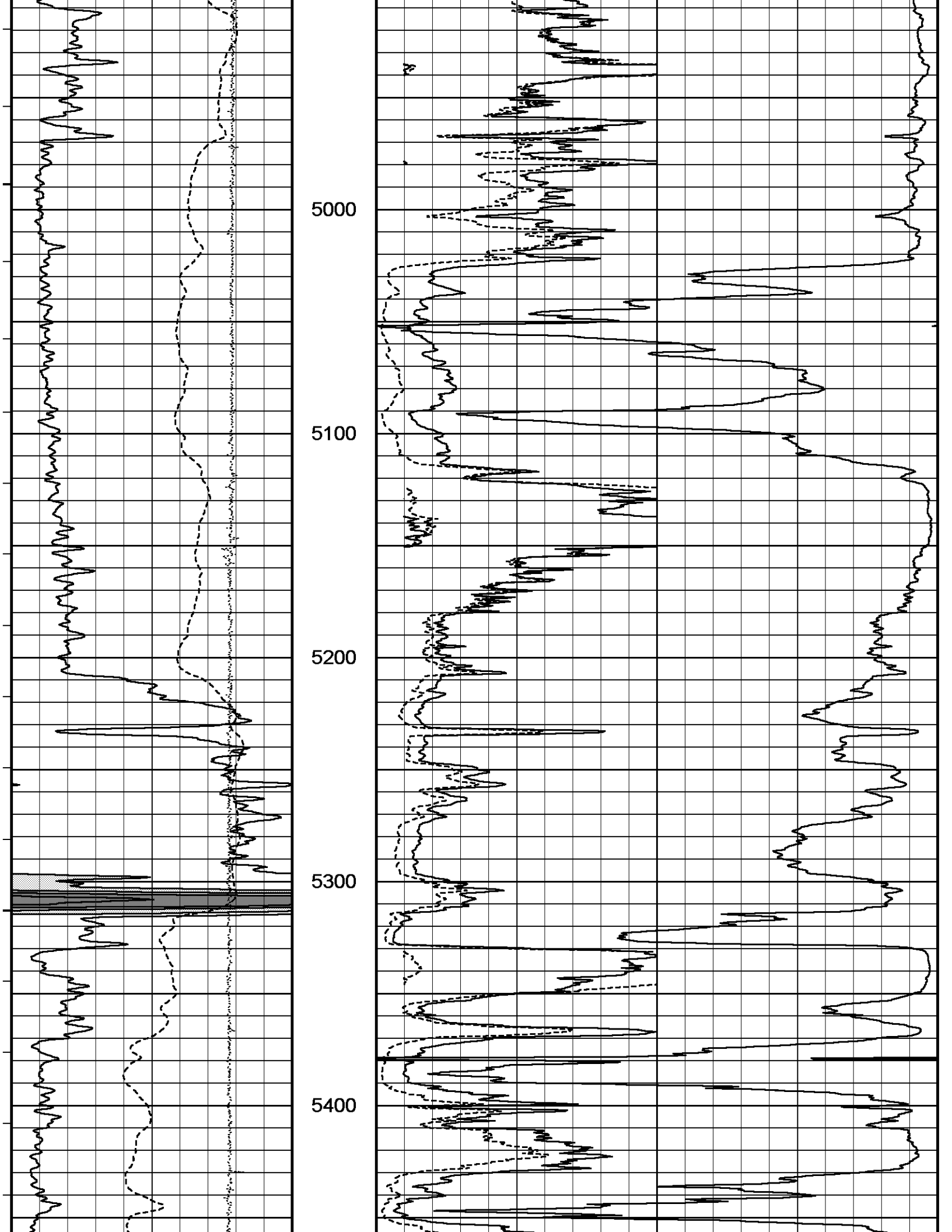

2200
2300
2400
2500
2600
2700
Array Ind One Cond C
Array Ind One Res Rt
Shallow FE
Spontaneous Potential
Gamma Ray
DST Uphole Tension

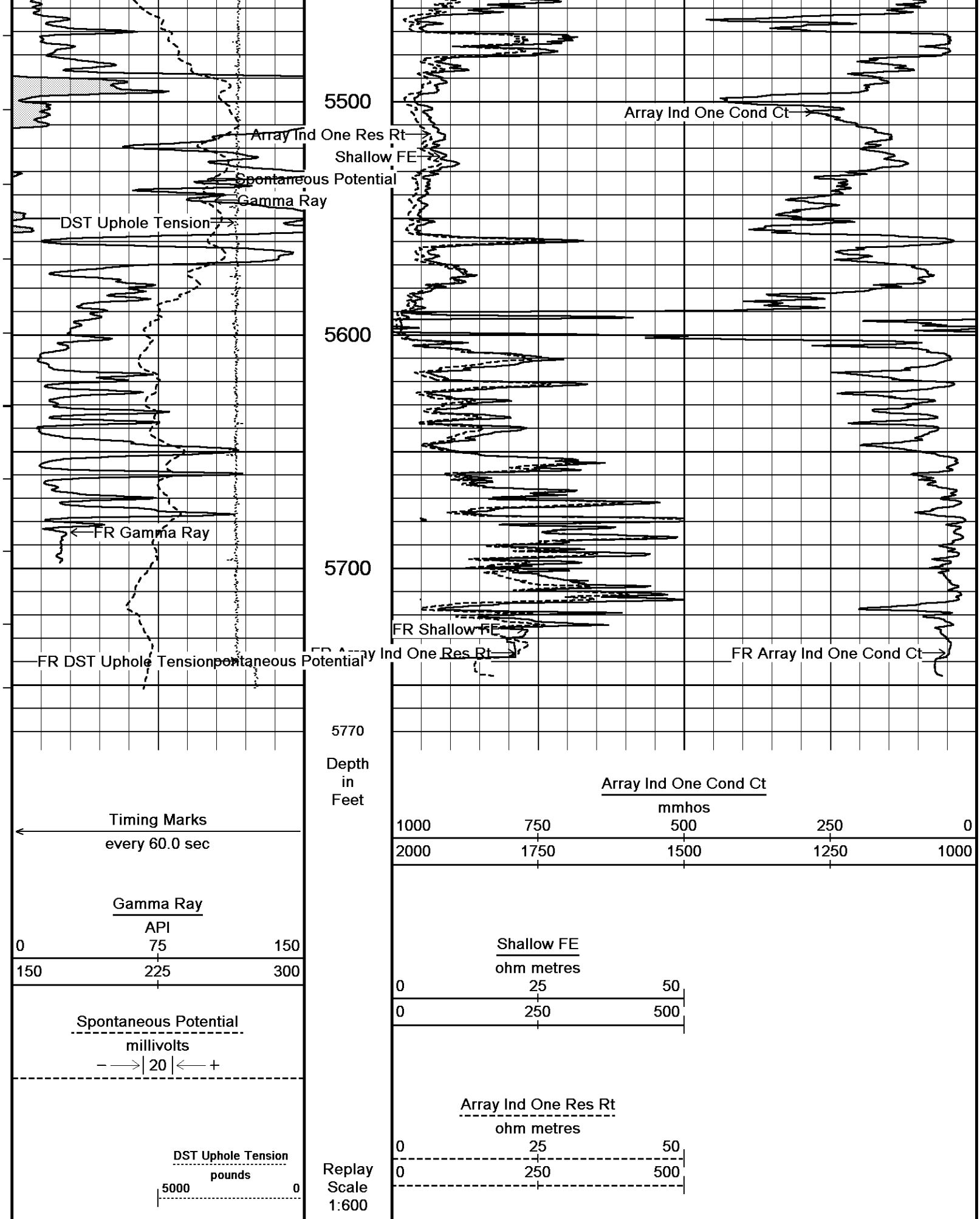

2800
2900
3000
3100
3200


3300
3400
3500
3600
3700
3800
Array Ind One Cond Ct
Array Ind One Res Rt
Shallow FE
Spontaneous Potential
Gamma Ray
DST Uphole Tension


3900
4000
4100
4200
4300


4400
4500
4600
4700
4800
4900
Array Ind One Cond Ct
Array Ind One Res Rt
Shallow FE
Spontaneous Potential
Gamma Ray
BST Uphole Tension


5000
5100
5200
5300
5400



Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 27-JAN-2012 11:53
Filename: C:\Program Files\Weatherford\WLS 12.03\DATA\SANDRIDGE (...\SHEA 1-17 SWD_002.dta
Recorded on 27-JAN-2012 08:20

System Versions: Logged with 12.03.5032 Plotted with 12.03.5032

2 INCH MAIN LOG

5 INCH MAIN LOG

Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 27-JAN-2012 11:53

Filename: C:\Program Files\Weatherford\WLS 12.03\DATA\SANDRIDGE (...\SHEA 1-17 SWD_002.dta — Recorded on 27-JAN-2012 08:20

System Versions: Logged with 12.03.5032 Plotted with 12.03.5032

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

Replay Scale 1:240

Shallow FE
ohm metres
0.20 1 10 100 1000 2000

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

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

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

3300

117°

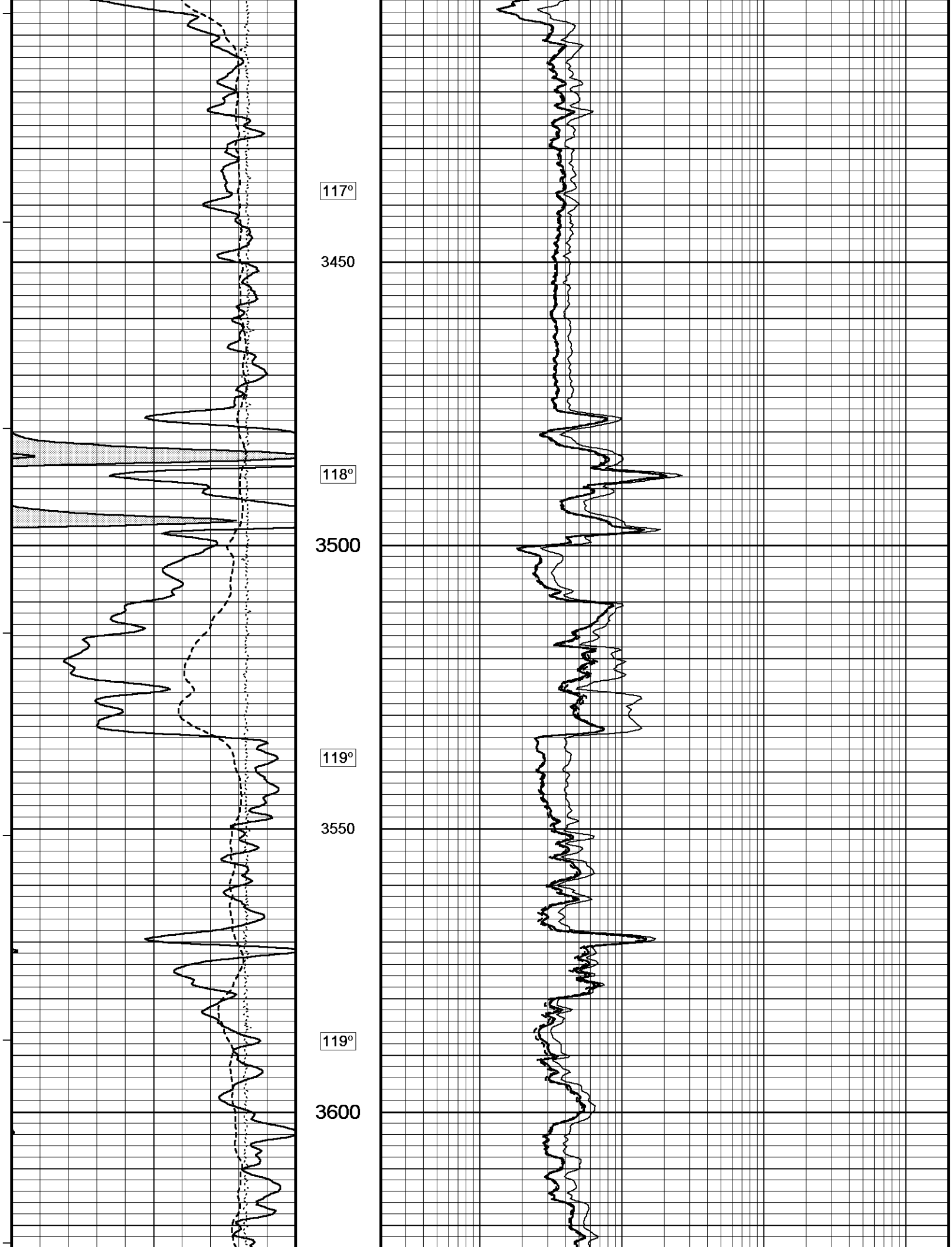
3350

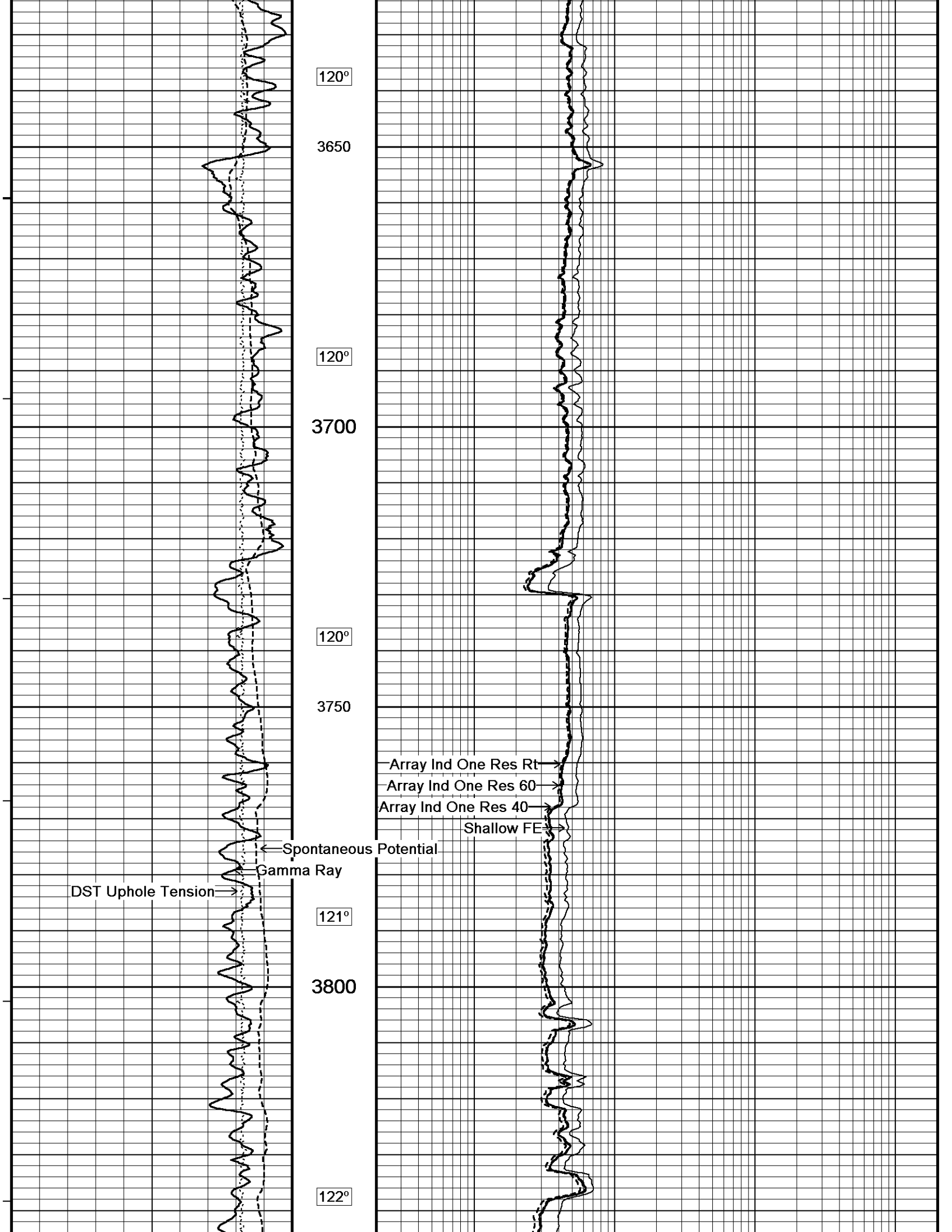
Array Ind One Res Rt
Array Ind One Res 60
Array Ind One Res 40
Shallow FE

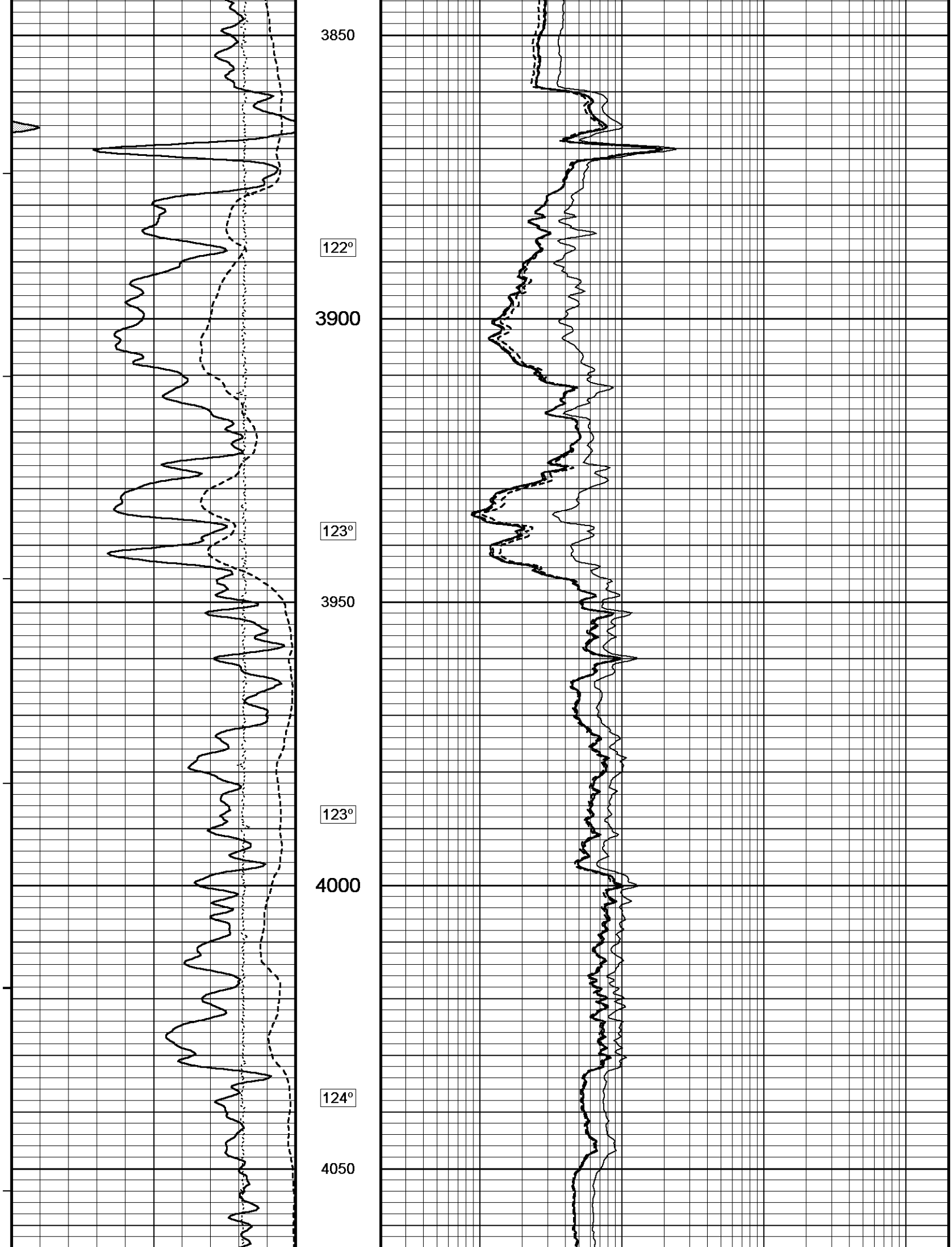
Spontaneous Potential
Gamma Ray
DST Uphole Tension

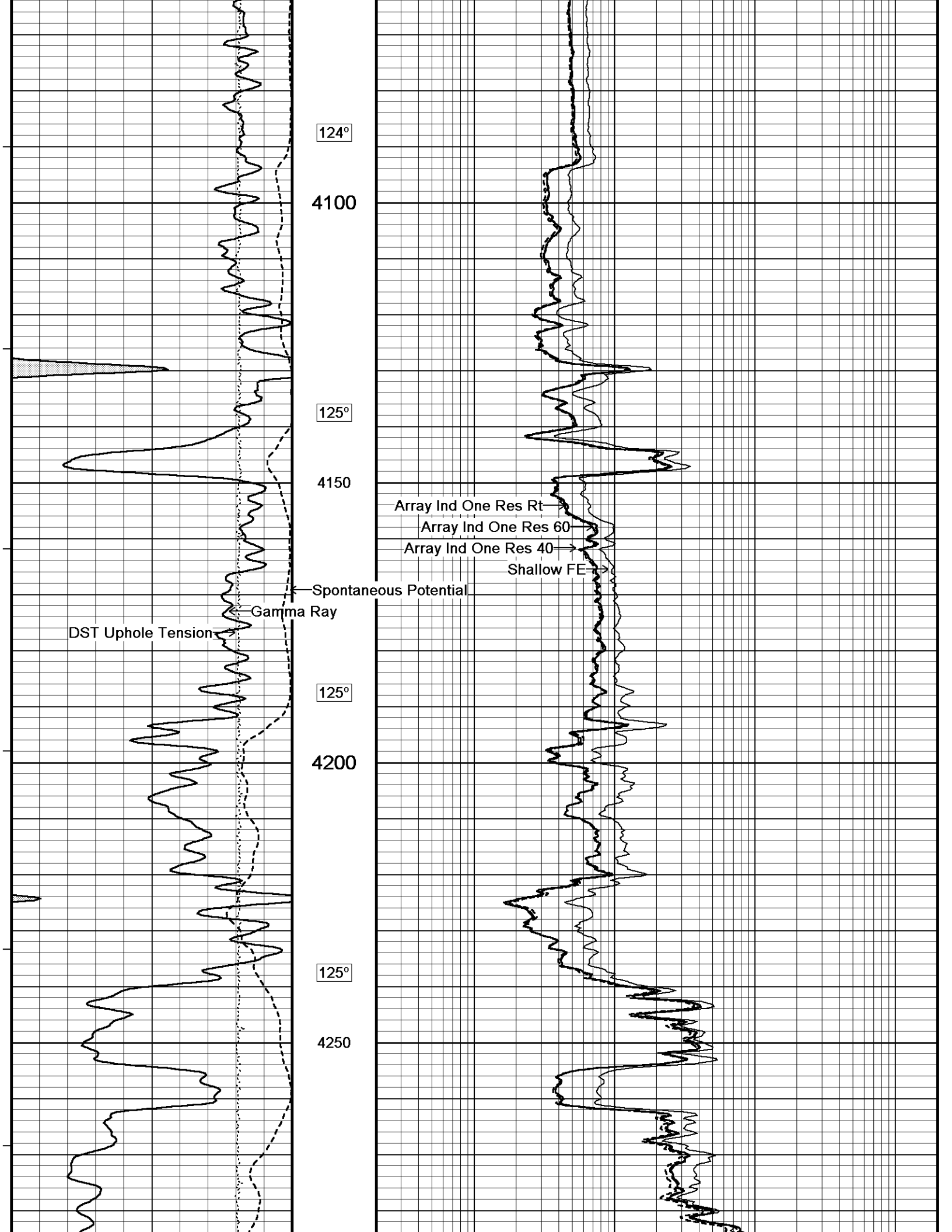
117°

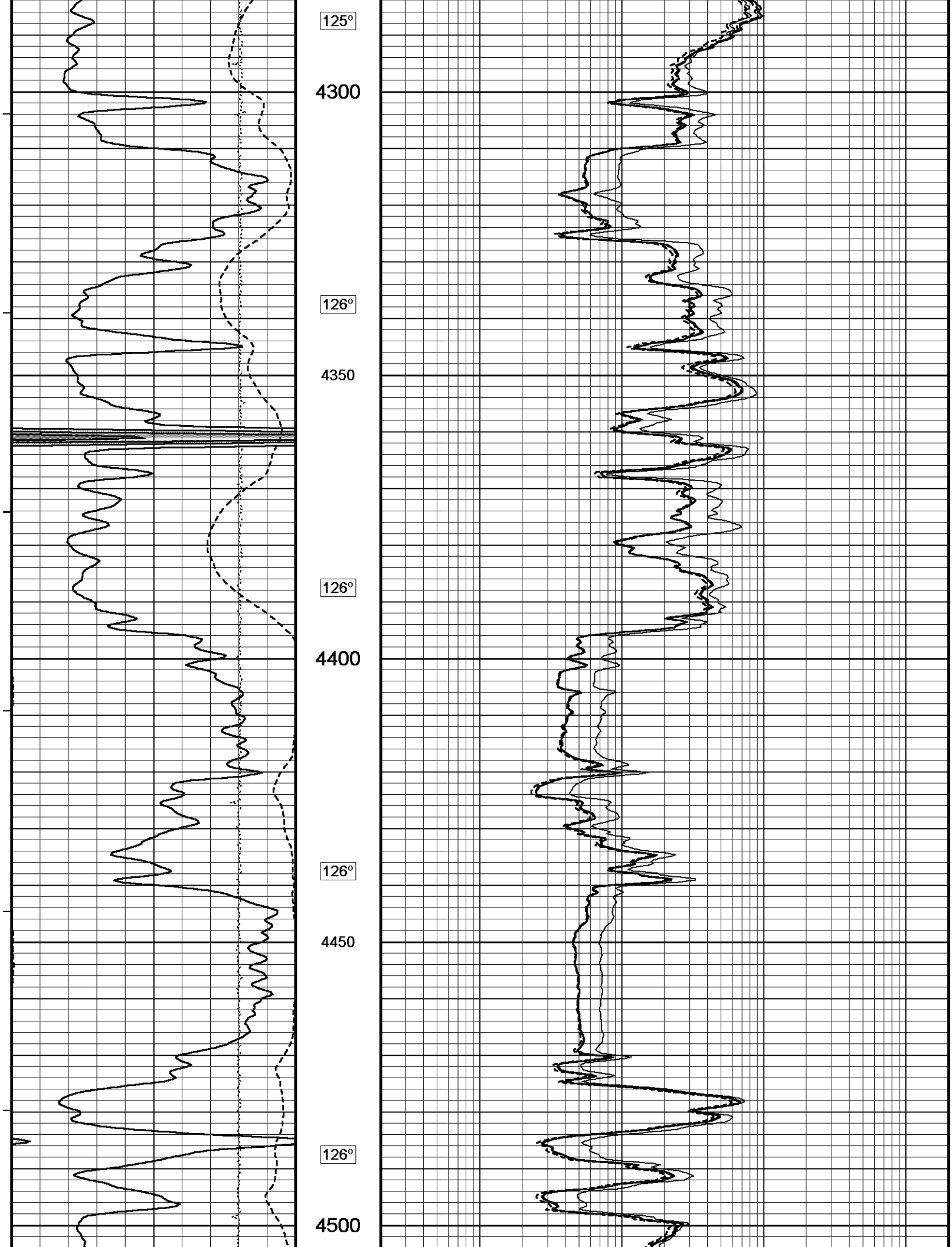
3400

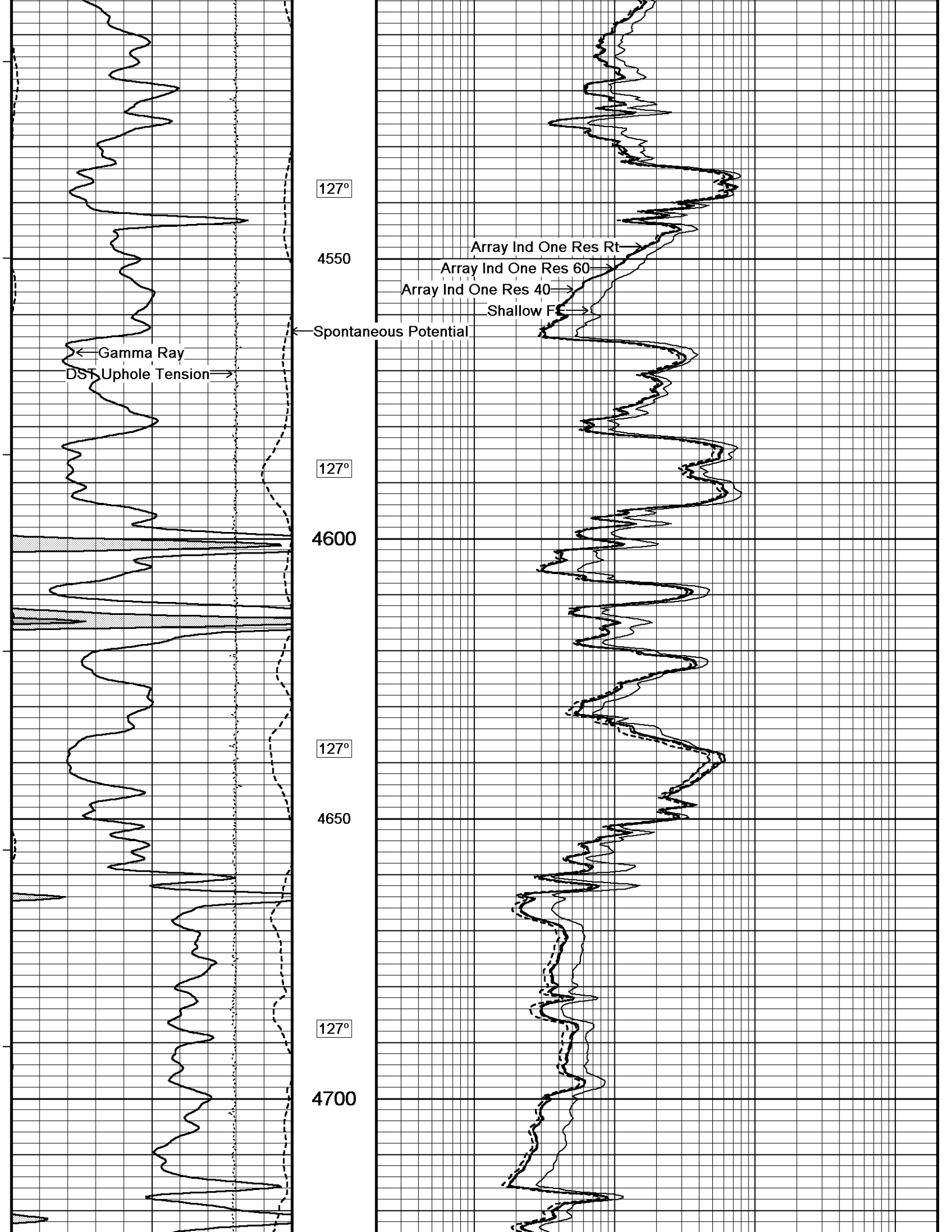

117°
3450
118°
3500
119°
3550
119°
3600

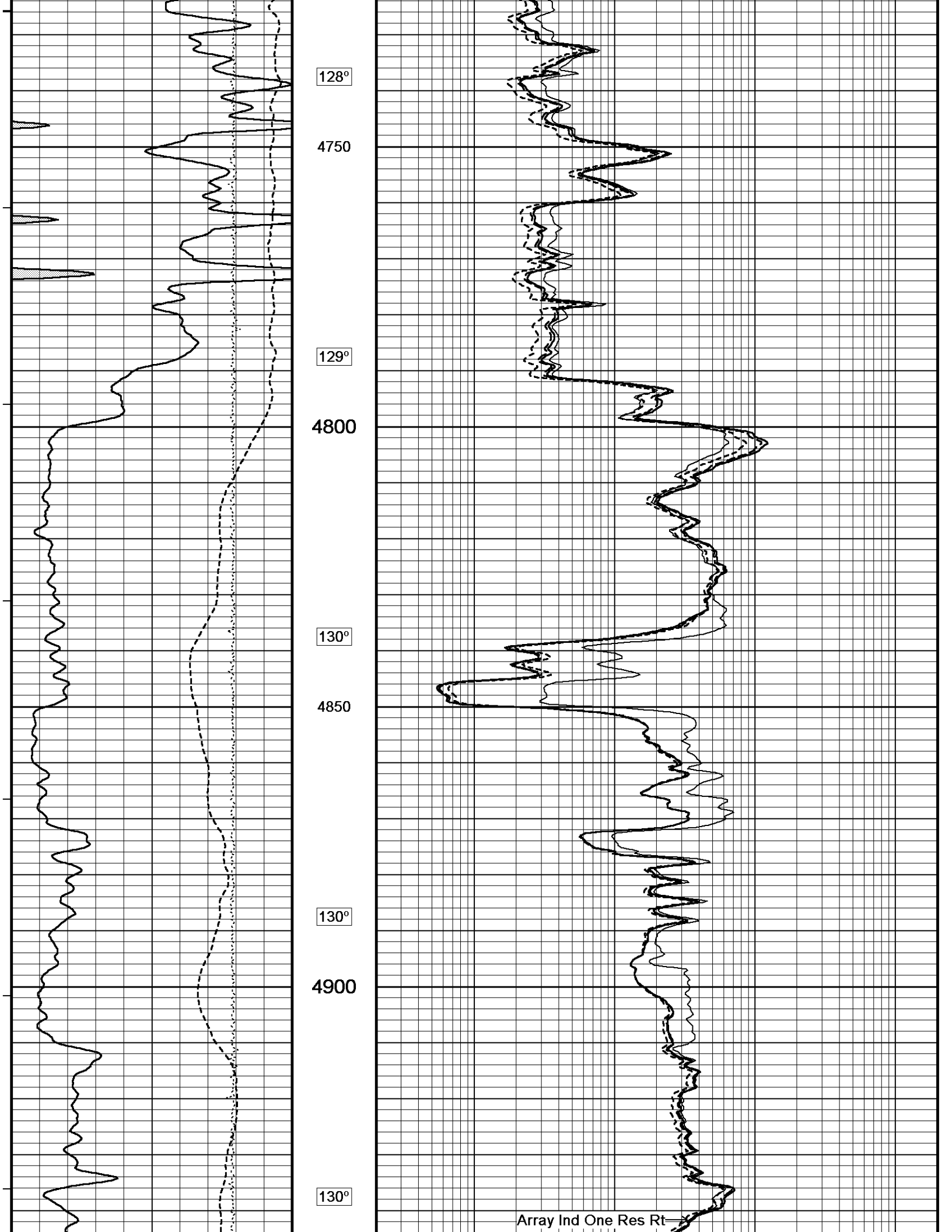

120°
3650
120°
3700
120°
3750
Array Ind One Res Rt
Array Ind One Res 60
Array Ind One Res 40
Shallow FE
Spontaneous Potential
Gamma Ray
DST Uphole Tension
121°
3800
122°

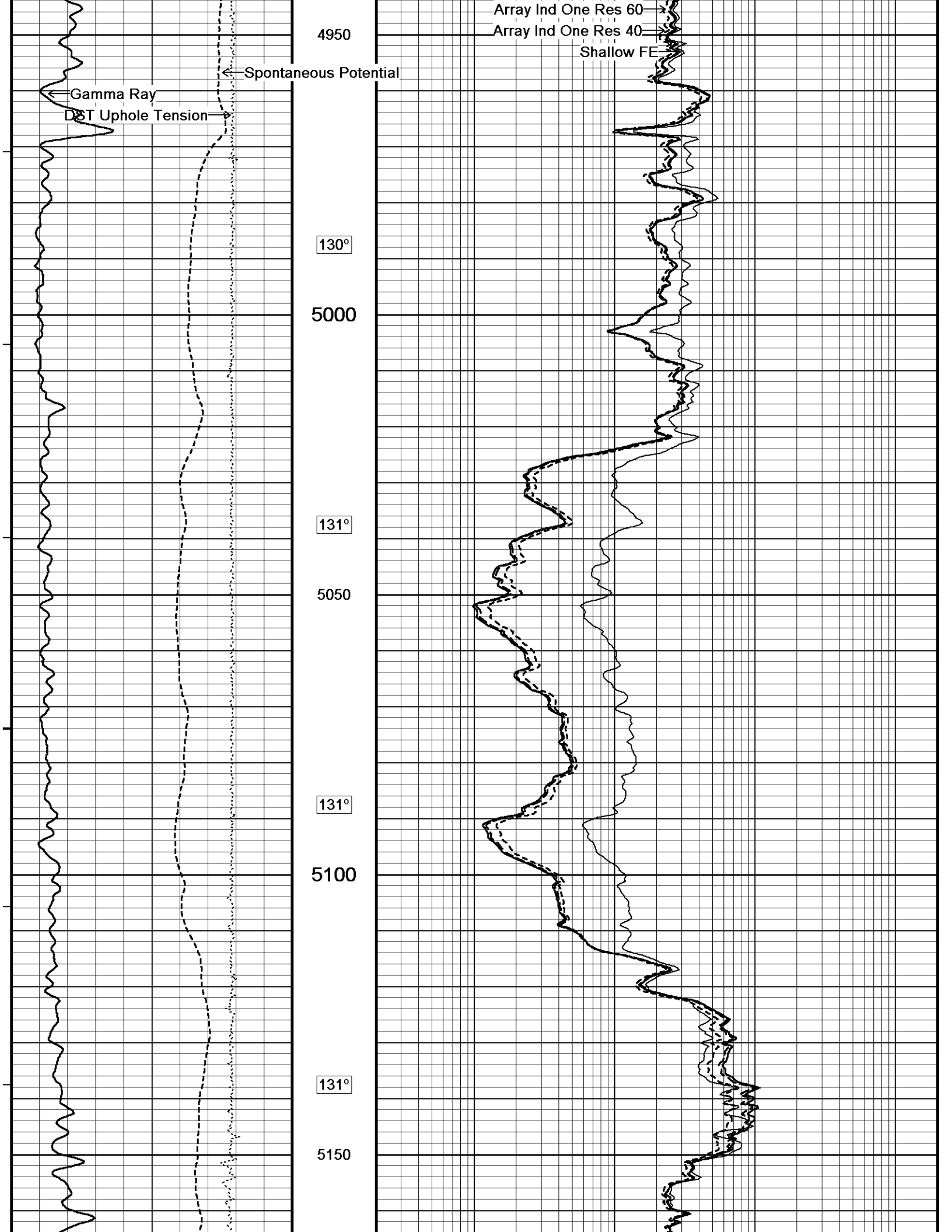

3850
122°
3900
123°
3950
123°
4000
124°
4050

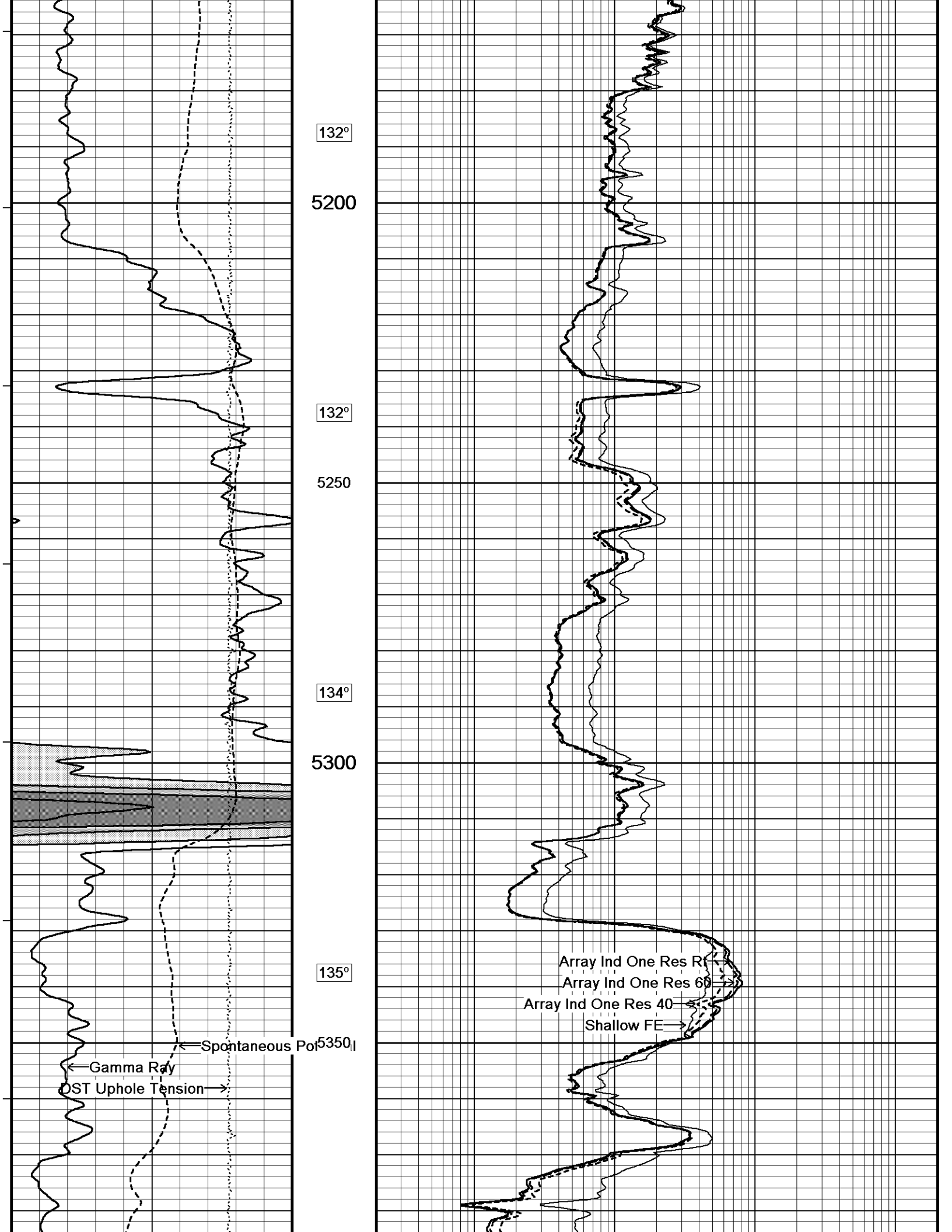

124°
4100
125°
4150
Array Ind One Res Rt
Array Ind One Res 60
Array Ind One Res 40
Shallow FE
Spontaneous Potential
Gamma Ray
DST Uphole Tension
125°
4200
125°
4250

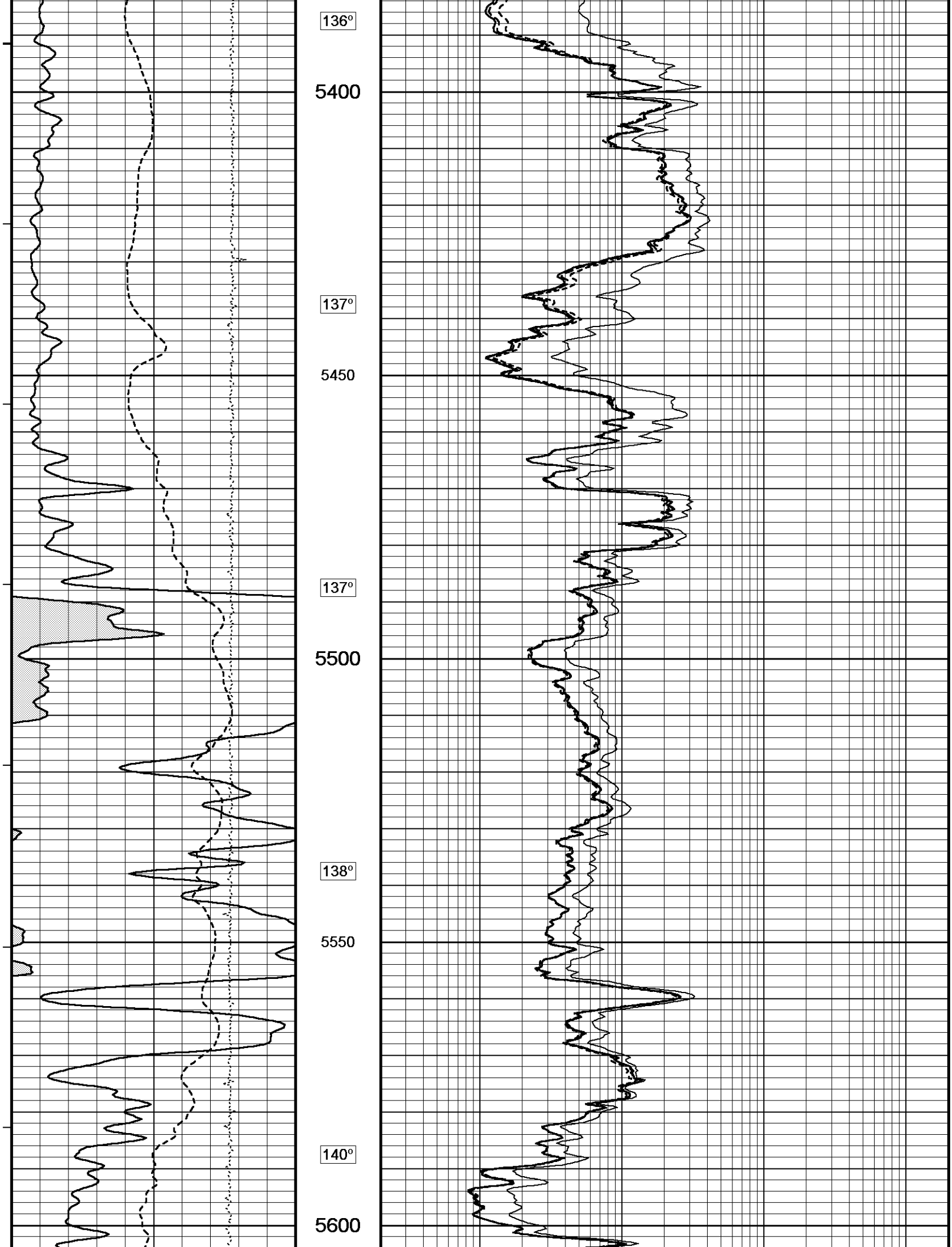

125°
4300
126°
4350
126°
4400
126°
4450
126°
4500

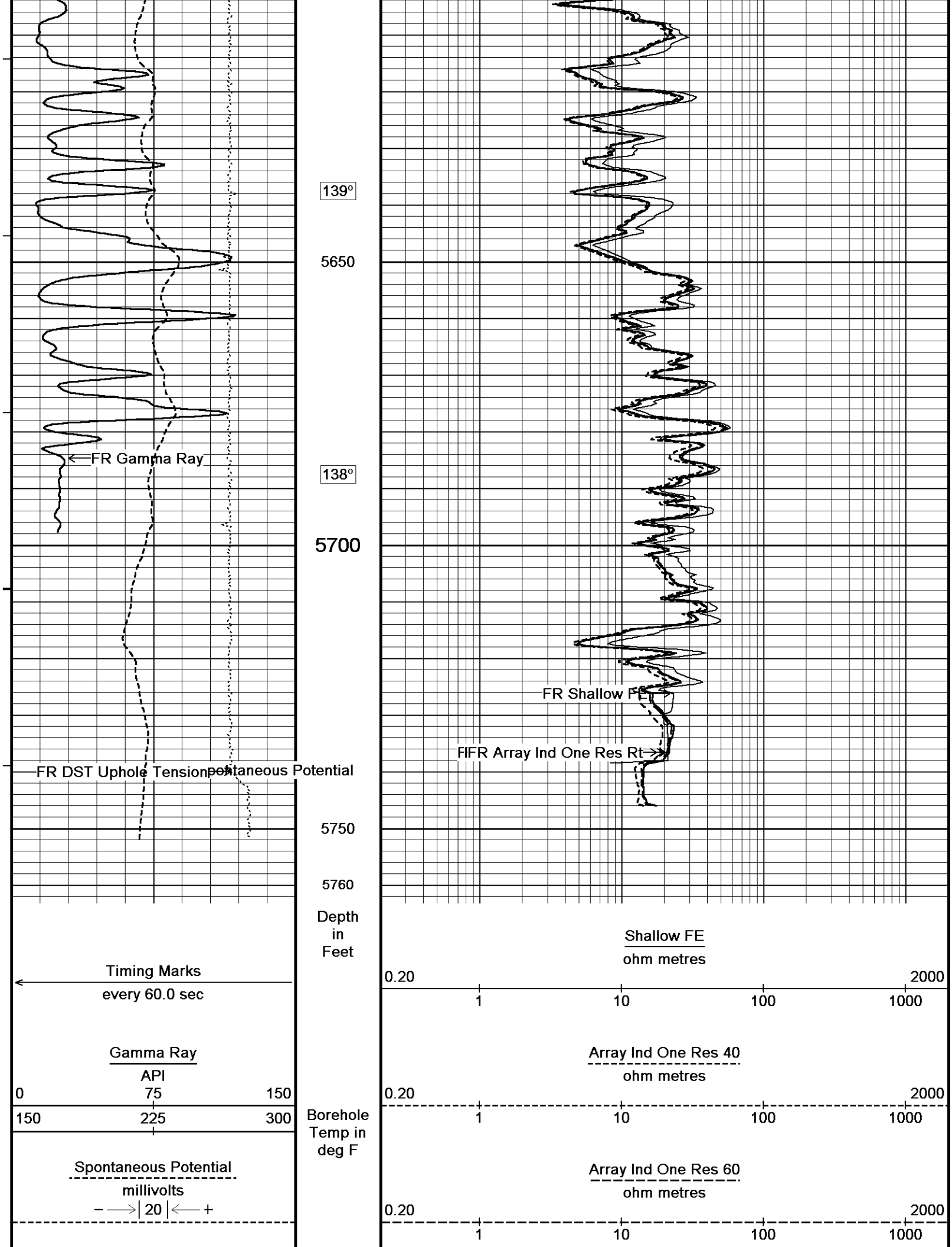

127°
4550
Array Ind One Res Rt
Array Ind One Res 60
Array Ind One Res 40
Shallow Foc
Spontaneous Potential
Gamma Ray
DST Uphole Tension
127°
4600
127°
4650
127°
4700


128°
4750
129°
4800
130°
4850
130°
4900
130°
Array Ind One Res Rt


Array Ind One Res 60
Array Ind One Res 40
Shallow FE
4950
Spontaneous Potential
Gamma Ray
DST Uphole Tension
130°
5000
131°
5050
131°
5100
131°
5150


132°
5200
132°
5250
134°
5300
135°
5350
Spontaneous Pot
Gamma Ray
DST Uphole Tension
Array Ind One Res Rt
Array Ind One Res 60
Array Ind One Res 40
Shallow FE


136°
5400
137°
5450
137°
5500
138°
5550
140°
5600


139°
5650
FR Gamma Ray
138°
5700
FR Shallow FE
FIFR Array Ind One Res Rt
FR DST Uphole Tension
pontaneous Potential
5750
5760
Depth
in
Feet
Timing Marks
every 60.0 sec
Gamma Ray
API
0
75
150
150
225
300
Borehole
Temp in
deg F
Spontaneous Potential
millivolts
20
Shallow FE
ohm metres
0.20
2000
1
10
100
1000
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

DST Uphole Tension
pounds
5000 0

Replay Scale 1:240

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

Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 27-JAN-2012 11:53
Filename: C:\Program Files\Weatherford\WLS 12.03\DATA\SANDRIDGE (...\SHEA 1-17 SWD_002.dta — Recorded on 27-JAN-2012 08:20
System Versions: Logged with 12.03.5032 Plotted with 12.03.5032

5 INCH MAIN LOG

5 INCH REPEAT

Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 27-JAN-2012 11:53
Filename: C:\Program Files\Weatherford\WLS 12.03\DATA\SANDRIDGE (...\SHEA 1-17 SWD_001.dta — Recorded on 27-JAN-2012 08:02
System Versions: Logged with 12.03.5032 Plotted with 12.03.5032

Timing Marks
every 60.0 sec

Gamma Ray
API
0 75 150
150 225 300

Spontaneous Potential
millivolts
− → | 20 | ← +

Depth in Feet

Borehole Temp in deg F

Shallow FE
ohm metres
0.20 2000
1 10 100 1000

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

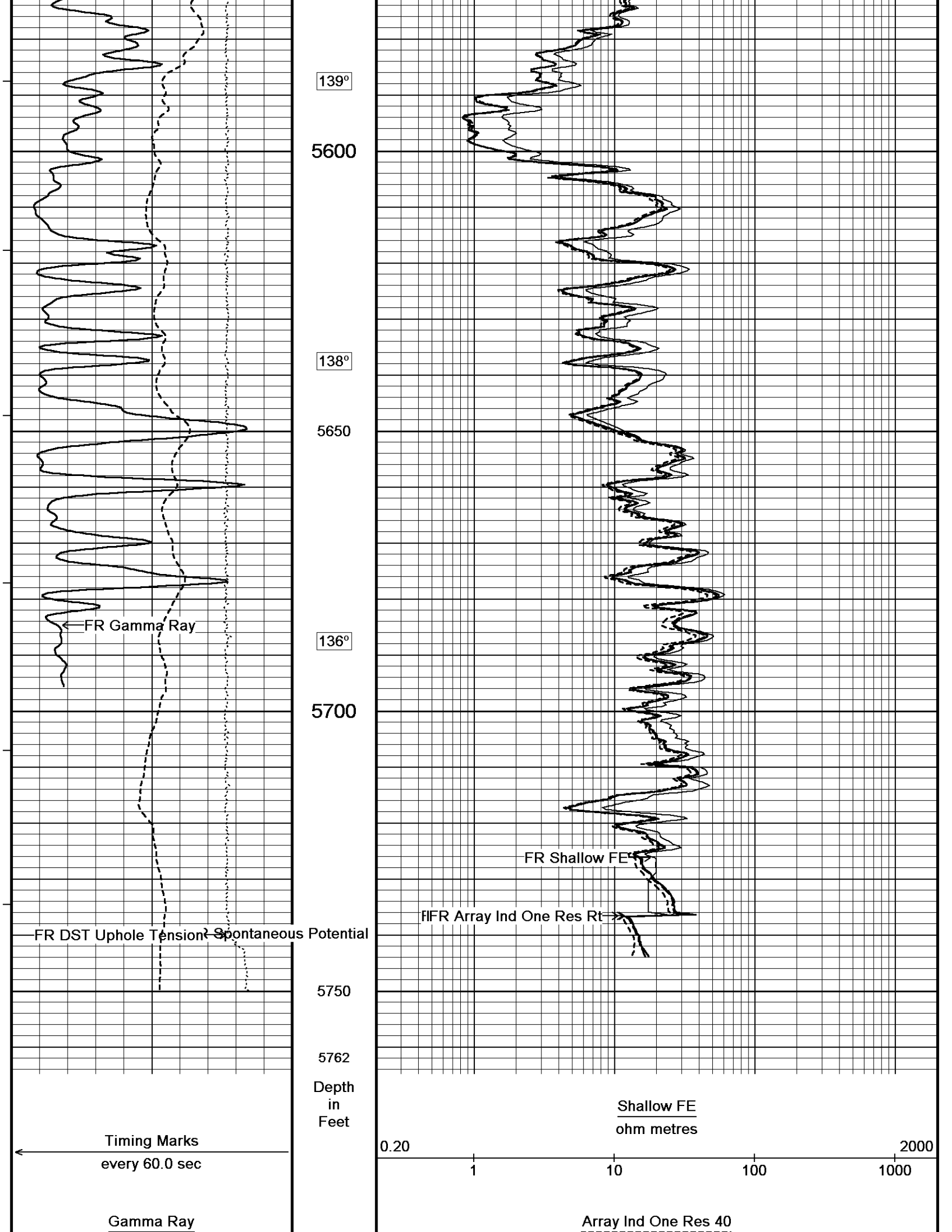
DST Uphole Tension
pounds
5000 0

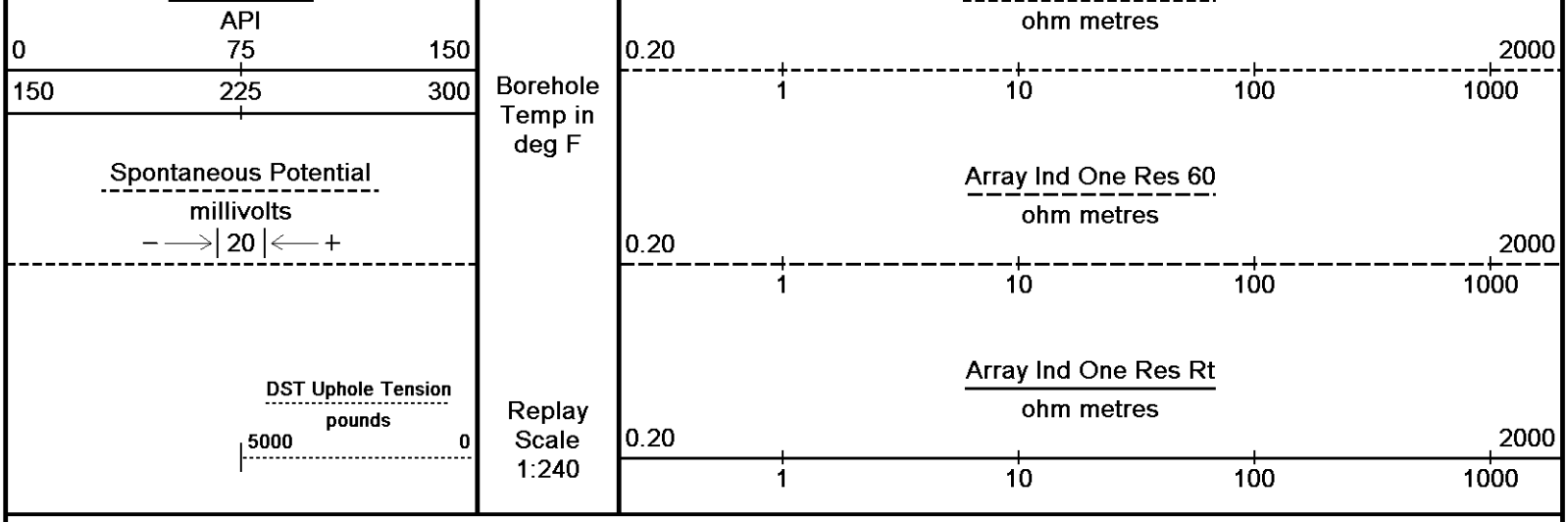
Replay Scale 1:240

5500

138°

5550


139°
5600
138°
5650
FR Gamma Ray
136°
5700
FR Shallow FE
FIFR Array Ind One Res Rt
FR DST Uphole Tension
Spontaneous Potential
5750
5762
Depth
in
Feet
Timing Marks
every 60.0 sec
Shallow FE
ohm metres
0.20
2000
1
10
100
1000
Gamma Ray
Array Ind One Res 40



Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 27-JAN-2012 11:53

Filename: C:\Program Files\Weatherford\WLS 12.03\DATA\SANDRIDGE (...\SHEA 1-17 SWD_001.dta — Recorded on 27-JAN-2012 08:02

System Versions: Logged with 12.03.5032 Plotted with 12.03.5032

5 INCH REPEAT

BEFORE SURVEY CALIBRATION

C:\Program Files\Weatherford\WLS 12.03\DATA\SANDRIDGE (SHEA 1-17SWD)\SHEA 1-17 SWD.dta

General Constants All 000

Last Edited on 27-JAN-2012,07:19

General Parameters		
Mud Resistivity	1.800	ohm-metres
Mud Resistivity Temperature	62.000	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	Limestone Density Por.	
Resistivity used	Array Ind. One Res Rt	
RWA Constant A	0.610	
RWA Constant M	2.150	

Down-hole Tension Calibration SMS 0

Field Calibration on 06-JAN-2012 05:19

Reading No	Measured	Calibrated (lbs)
1	14374.16	0.00
2	14374.76	400.00

High Resolution Temperature Calibration MCG-D.J 431

Field Calibration on 22-JAN-2012,07:58

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

High Resolution Temperature Constants MCG-D.J 431

Last Edited on

Pre-filter Length	11

SP Calibration MCG-D.J 431

Field Calibration on 22-JAN-2012,07:57

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

Gamma Calibration MCG-D.J 431

Field Calibration on 22-JAN-2012,07:57

Field Calibration on 22-JAN-2012,07:57

	Measured	Calibrated (API)
Background	68	48
Calibrator (Gross)	1860	1309
Calibrator (Net)	1792	1261

Gamma Constants MCG-D.J 431

Last Edited on 22-JAN-2012,07:57

Gamma Calibrator Number	46	
Mud Density	1.14	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

Accelerometer Constants MBN-C.A 93

Last Edited on

Accelerometer Calibrator Number 000

Accelerometer Temperature Characterisation

X Accelerometer

Serial Number	0			
Calibration Date	01-Jan-1998			
	B0	B1	B2	B3
Bias(g)	0.00000e+000	0.00000e+000	0.00000e+000	0.00000e+000
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	0.00000e+000	0.00000e+000	0.00000e+000	0.00000e+000

Y Accelerometer

Serial Number	0			
Calibration Date	01-Jan-1998			
	B0	B1	B2	B3
Bias(g)	0.00000e+000	0.00000e+000	0.00000e+000	0.00000e+000
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	0.00000e+000	0.00000e+000	0.00000e+000	0.00000e+000

Z Accelerometer

Serial Number	0			
Calibration Date	01-Jan-1998			
	B0	B1	B2	B3
Bias(g)	0.00000e+000	0.00000e+000	0.00000e+000	0.00000e+000
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	0.00000e+000	0.00000e+000	0.00000e+000	0.00000e+000

Navigation Constants MBN-C.A 93

Last Edited on

Magnetic Declination	0.00	degrees	East

Magnetometer Constants MBN-C.A 93

Last Edited on

Magnetometer Calibrator Number 000

Micro Normal and Micro Inverse Calibration MMR-A.A 6

Base Calibration on 22-JAN-2012,07:58
Field Check on

Base Calibration

	Measured		Calibrated (ohm-m)	
Channel	Resistor 1	Resistor 2	Resistor 1	Resistor 2
Micro Normal	12.0	59.8	2.6	12.8
Micro Inverse	15.6	77.2	1.7	8.4

Channel	Base Check (ohm-m)	Field Check (ohm-m)
Micro Normal	38.9	0.0
Micro Inverse	19.9	0.0

Micro Normal and Micro Inverse Constants MMR-A.A 6

Last Edited on 29-OCT-2011,09:57

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	0.0000	inches

Micro Laterolog Calibration MMR-A.A 6

Base Calibration on 15-SEP-2008,10:36
Field Check on 15-SEP-2008,10:53

Base Calibration

	Measured		Calibrated (ohm-m)	
	Ref 1	Ref 2	Ref 1	Ref 2

0.0	9889.3	0.0	1.0

Base Check (ohm-m)	Field Check (ohm-m)
4.0	3.2

Micro Laterolog Constants MMR-A.A 6

Last Edited on 15-SEP-2008,14:57

Pad Type	6 in 2.25 in OD Solid Rubber B32069	
Micro Laterolog K Factor	0.0100	
Standoff Offset	0.0000	inches

Mudcake Thickness Correction Constants

Mud Cake Source	Differential Caliper	
Mud Cake Thickness	N/A	inches
Mud Cake Thickness Caliper	MMR Caliper	
Mud Cake Resistivity	0.1500	ohm-m
Mud Cake Resistivity Temp.	68.00	Deg F
Mud Cake Resistivity Source	Constant Value	
Temp. Source Rmc Correc.	N/A	

Caliper Calibration MMR-A.A 6

Base Calibration on 29-SEP-2011 10:19
Field Calibration on 22-JAN-2012 08:54

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	13293	5.97
2	16511	7.99
3	19695	9.86
4	23612	11.93
5	0	0.00
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
8.49	8.10

Neutron Calibration MDN-A.A 10

Base Calibration on 22-JAN-2012,07:58
Field Check on 22-JAN-2012,07:59

Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	3130	98	3714	110
Ratio	31.818		33.764	

Field Calibrator at Base

	Calibrated (cps)	
	1248	1792
Ratio	0.696	

Field Check

	Calibrated (cps)	
	1248	1792
Ratio	0.696	

Neutron Constants MDN-A.A 10

Last Edited on 22-JAN-2012,07:59

Neutron Source Id	P14033B	
Neutron Jig Number	13226	
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	Constant Value	
Formation Pressure	0.00	kpsi
Temperature Source	None	
Temperature	N/A	degrees F
Mud Salinity	0.00	kppm
Salinity Correction	Not Applied	
Formation Fluid Salinity Source	Constant Value	
Formation Fluid Salinity	0.00	kppm
Barite Mud Correction	Not Applied	

FE Calibration MFE-A.A 65

Base Calibration on 04-OCT-2011 13:00
Field Check on 22-JAN-2012,07:59

Base Calibration

	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	959.5	126.8
Base Check		281.4
Field Check		281.0

FE Constants MFE-A.A 65

Last Edited on 22-JAN-2012,08:00

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 102

Field Calibration on 22-JAN-2012,08:00

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

High Resolution Temperature Constants MAI-A.A 102

Last Edited on

Pre-filter Length	11	

Induction Calibration MAI-A.A 102

Base Calibration on 24-FEB-2011 20:51
Field Check on 22-JAN-2012,08:00

Base Calibration

Test Loop Calibration

Channel	Measured Low	Measured High	Calibrated (mmho/m) Low	Calibrated (mmho/m) High
1	17.3	481.3	9.3	966.2
2	5.4	377.6	7.6	821.4
3	2.4	255.3	5.2	566.0
4	1.5	133.4	2.6	279.2

Array Temperature 78.4 Deg F

Channel	Base Check (mmho/m) Low	Base Check (mmho/m) High	Field Check (mmho/m) Low	Field Check (mmho/m) High
1	0.0	0.0	12.9	3810.4
2	0.0	0.0	32.4	3607.4
3	0.0	0.0	31.5	3125.7
4	0.0	0.0	20.6	2087.4
Deep	0.0	0.0	18.9	2000.5
Medium	0.0	0.0	47.0	4181.8
Shallow	0.0	0.0	48.7	5375.7
Array Temperature		0.0		70.7 Deg F

Induction Constants MAI-A.A 102

Last Edited on 22-JAN-2012,08:00

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	0.00	inches
Number of Fins on Stand-off	6.0000	
Stand-off Fin Angle	60.00	degrees
Stand-off Fin Width	0.0000	inches
Borehole Corr. Rm Source	Temperature Corr	
Temp. for Rm Corr.	MCG External Temperature	
Squasher Start	0.0060	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-A 3

Base Calibration on 04-OCT-2011,14:09
Field Calibration on 22-JAN-2012 08:55

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	20208	3.98
2	28784	5.95
3	37424	7.97
4	45392	9.84
5	54503	11.91
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
8.92	8.10

Photo Density Calibration MPD-A 3

Base Calibration on 20-JAN-2012 09:16
Field Check on 22-JAN-2012,07:59

Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	47137	24758	59869	31110
Reference 2	19919	2782	24557	2522

Field Check at Base

1293.7	1629.3

Field Check

1293.7	1629.3

PE Calibration

Base Calibration	Measured			Calibrated
	WS	WH	Ratio	Ratio
Background	236	1156		
Reference 1	18974	46946	0.409	0.369
Reference 2	5522	19773	0.284	0.271

Field Check at Base

235.5	1155.9

Field Check

235.5	1155.9

Density Constants MPD-A 3

Last Edited on 22-JAN-2012,07:59

Density Source Id	260
Nylon Calibrator Number	633
Aluminium Calibrator Number	633
Density Shoe Profile	8 inch
Caliper Source for Processing	Density Caliper

PE Correction to Density	Not Applied	
Mud Density	1.14	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	

DOWNHOLE EQUIPMENT

C:\Program Files\Weatherford\WLS 12.03\DATA\SANDRIDGE (SHEA 1-17SWD)\SHEA 1-17 SWD.dta

SHA-F Compact Swivel Head Adaptor
SHA-F 45 LG: 2.74 ft WT: 26.5 lb OD: 2.24 in

Compact Comms Gamma
MCG-D.J 431 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Navigation
MBN-C.A 93 LG: 11.81 ft WT: 70.5 lb OD: 2.24 in

Compact Micro-Resistivity
MMR-A.A 6 LG: 8.59 ft WT: 81.6 lb OD: 4.88 in

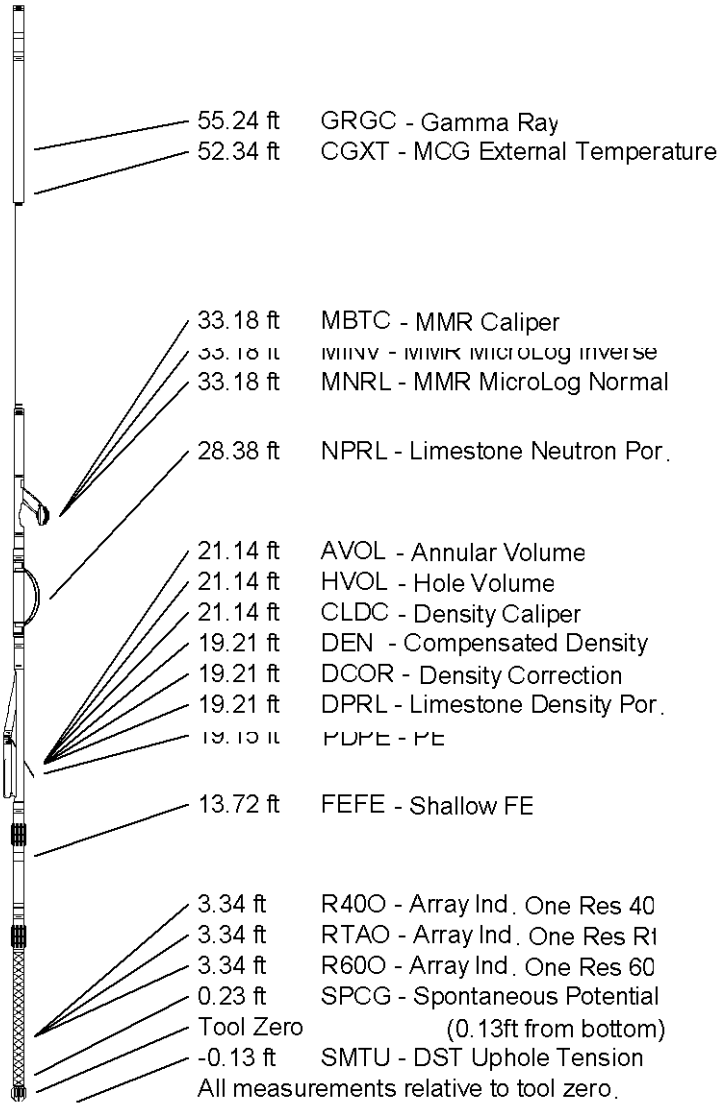
Compact Neutron
MDN-A.A 10 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper
MPD-A 3 LG: 9.53 ft WT: 90.4 lb OD: 2.45 in

Compact Focussed Electric
MFE-A.A 65 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

Compact Induction
MAI-A.A 102 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 63.27 ft Weight: 480.6 lb



COMPANY	SANDRIDGE ENERGY, INC.
WELL	SHEA 1-17 SWD
FIELD	STRANATHAN
PROVINCE/COUNTY	HARPER

PROVINCE/COUNTY	HARPER	
COUNTRY/STATE	U.S.A/ KANSAS	

Elevation Kelly Bushing	1301.50	feet	First Reading	5737.00	feet
Elevation Drill Floor	1299.50	feet	Depth Driller	5737.00	feet
Elevation Ground Level	1284.00	feet	Depth Logger	5740.00	feet

Weatherford®

ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG

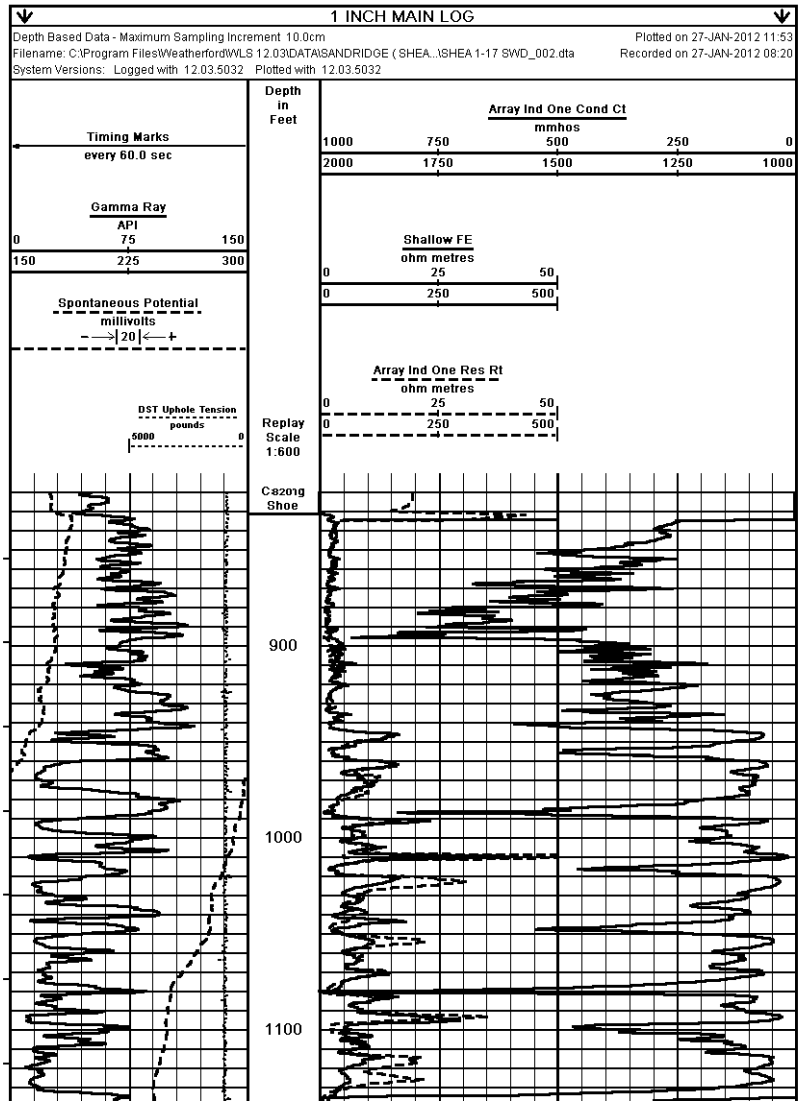
40 Years of Wireline 1970 2010

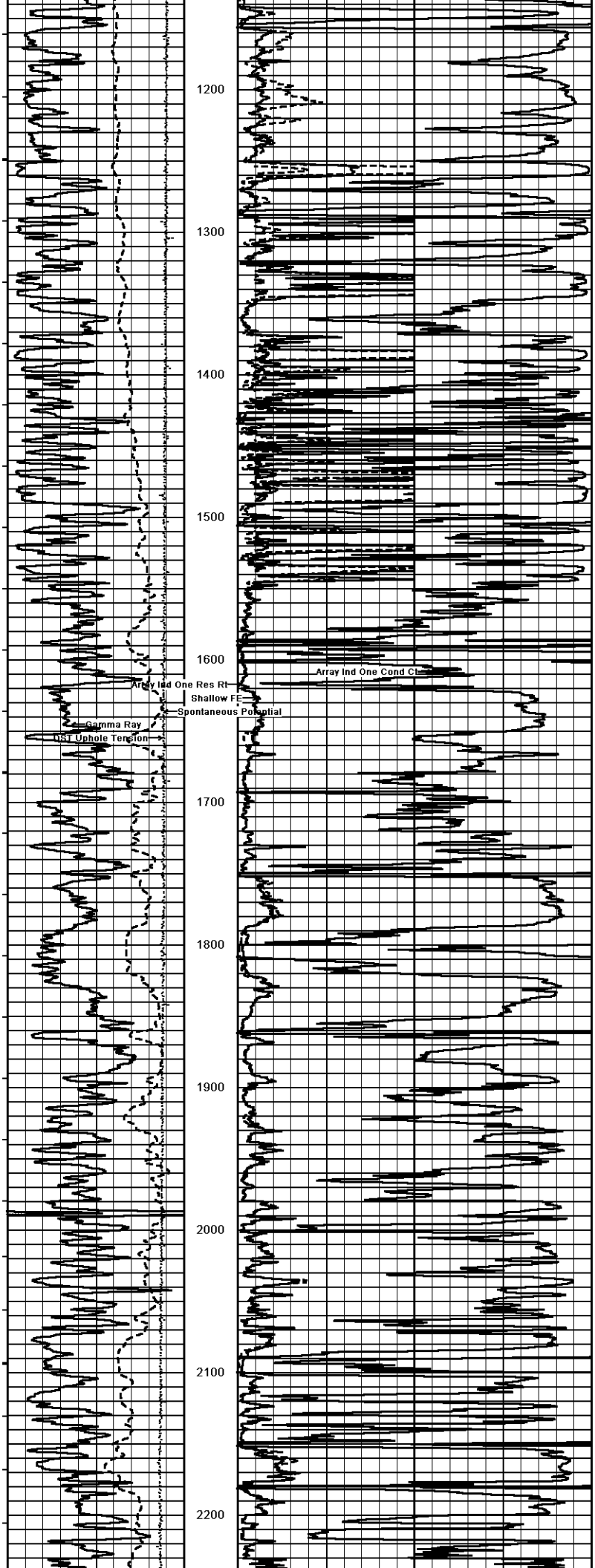
COMPANY	SANDRIDGE ENERGY, INC.
WELL	SHEA 1-17 SWD
FIELD	STRANATHAN
PROVINCE/COUNTY	HARPER
COUNTRY/STATE	U.S.A/ KANSAS
LOCATION	232' FSL & 236' FEL
SEC	17
TWP	35S
RGE	7W
API Number	15-077-21781
Other Services	MDN/MPD, CMI, MBN

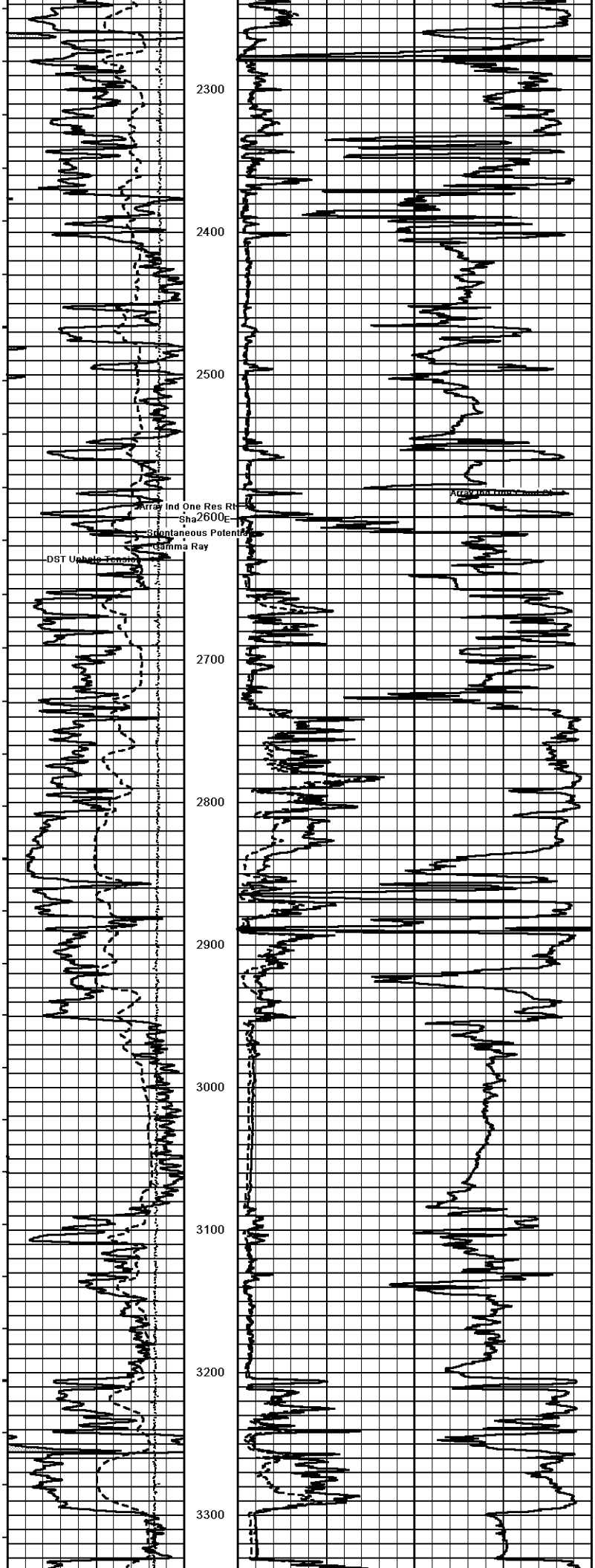
ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG

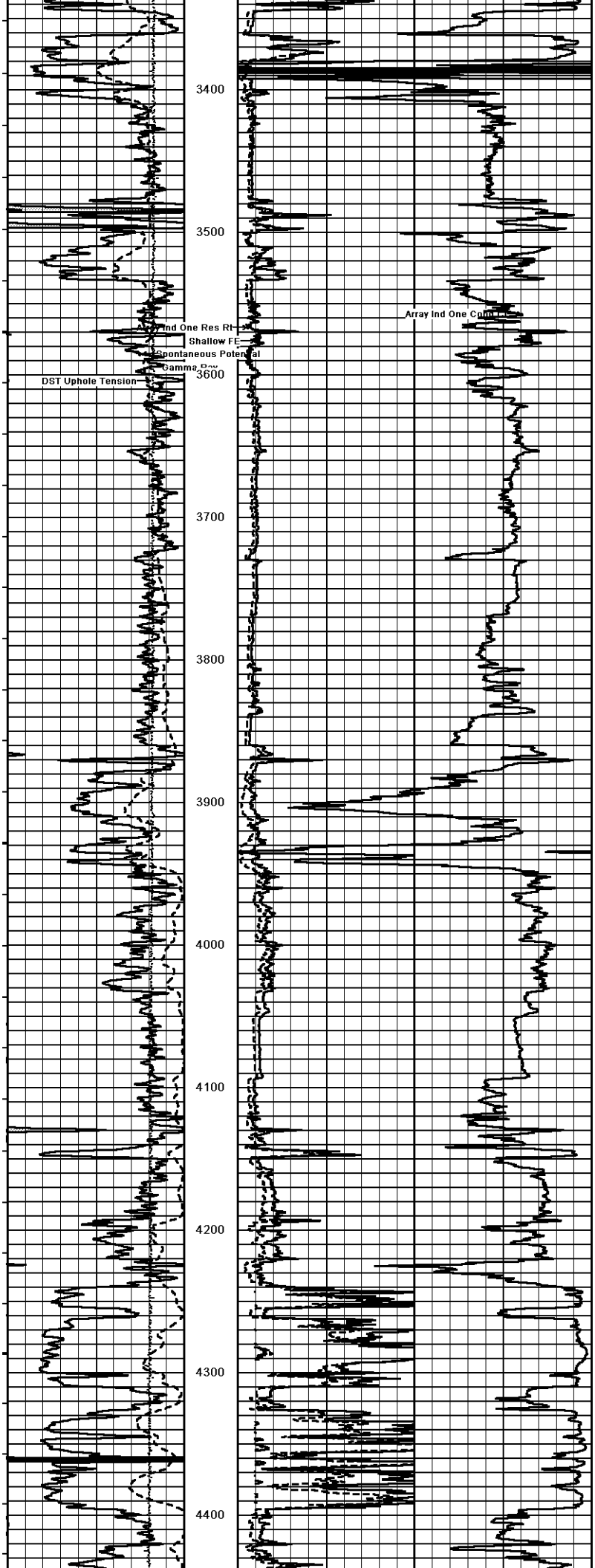
Permanent Datum	G.L.	Elevation	1284 feet
Log Measured From	KB		17 feet above Permanent Datum
Drilling Measured From	K.B.		
Elevations: KB			1301.50 feet
DF			1299.50 feet
GL			1284.00 feet

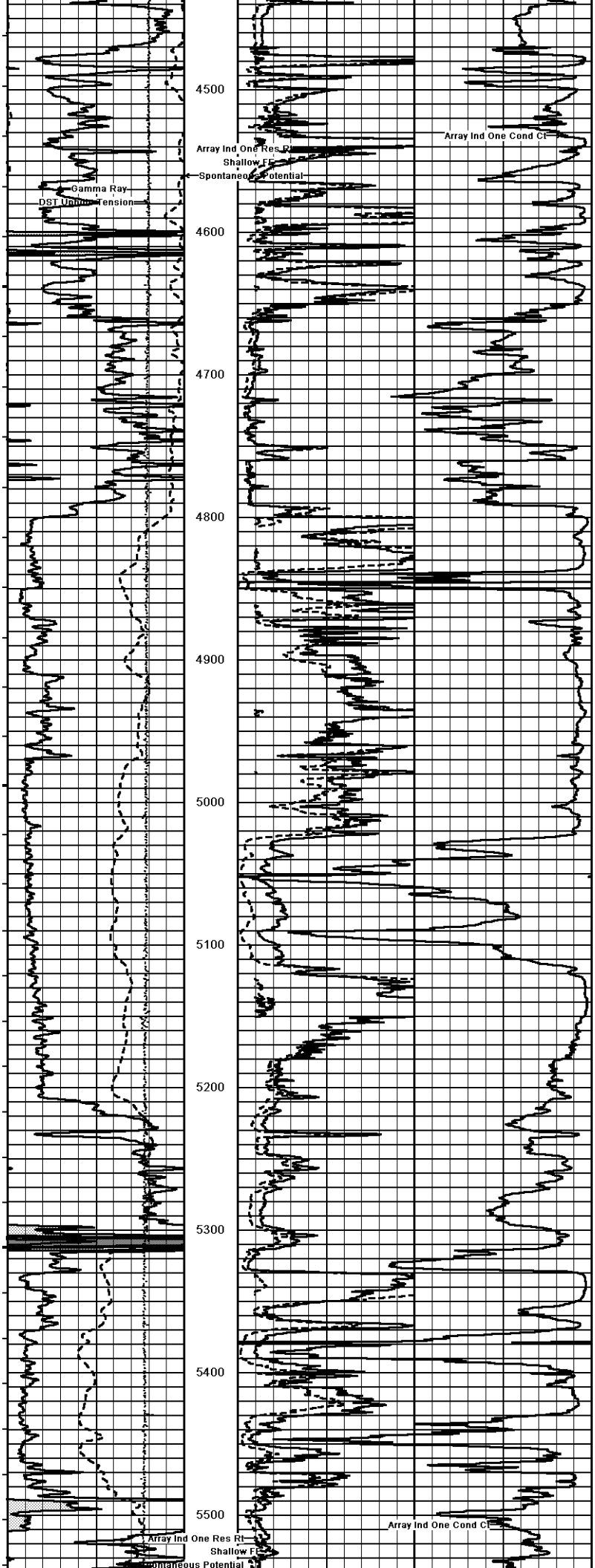
Date	27-JAN-2012					
Run Number	ONE					
Depth Driller	5737.00	feet				
Depth Logger	5740.00	feet				
First Reading	5737.00	feet				
Last Reading	831.00	feet				
Casing Driller	829.00	feet				
Casing Logger	831.00	feet				
Bit Size	9.875	inches				
Hole Fluid Type	WBM					
Density/Viscosity	9.25	lbs/USg	55.00	CP		
PH / Fluid Loss	9.50		7.20	ml/30Min		
Sample Source	FLOWLINE					
Rm @ Measured Temp	0.90 @ 83.0	ohm-m				
Rmf @ Measured Temp	0.72 @ 83.0	ohm-m				
Rmc @ Measured Temp	1.08 @ 83.0	ohm-m				
Source Rmf / Rmc	CALC	CALC				
Rm @ BHT	0.53 @140.0	ohm-m				
Time Since Circulation	8 HOURS					
Max Recorded Temp	140.00	deg F				
Equipment Name	COMPACT					
Equipment / Base	13226	OKC				
Recorded By	BROWN ALLEN		JERROD MONROE			
Witnessed By	TAMMY ALCORN					
	3535032					

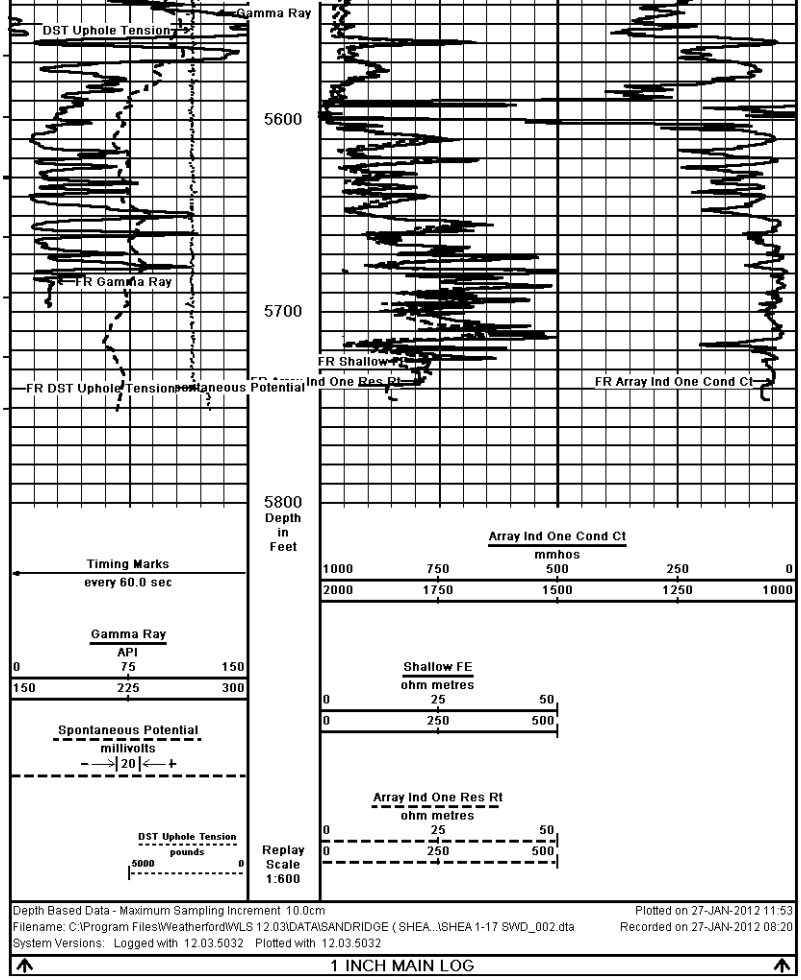



1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
Array Ind One Cond Ct
Array Ind One Res Rt
Shallow FE
Spontaneous Potential
Gamma Ray
CBT Uphole Tension


2300
2400
2500
Array Ind One Res Rt
Sha
2600
Spontaneous Potentia
Gamma Ray
DST Cable Tension
2700
2800
2900
3000
3100
3200
3300


3400
3500
Array Ind One Com
Ind One Res Rt
Shallow FE
Spontaneous Potential
Gamma Ray
DST Uphole Tension
3600
3700
3800
3900
4000
4100
4200
4300
4400


4500
4600
4700
4800
4900
5000
5100
5200
5300
5400
5500
Array Ind One Res Rt
Shallow FE
Spontaneous Potential
Gamma Ray
DST Upper Tension
Array Ind One Cond Ct
Array Ind One Res Rt
Shallow FE
Spontaneous Potential
Array Ind One Cond Ct



Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 27-JAN-2012 11:53
Filename: C:\Program Files\Weatherford\WLS 12.03\DATA\SANDRIDGE (SHEA...\SHEA 1-17 SWD_002.dta — Recorded on 27-JAN-2012 08:20
System Versions: Logged with 12.03.5032 Plotted with 12.03.5032

1 INCH MAIN LOG

COMPANY	SANDRIDGE ENERGY, INC.
WELL	SHEA 1-17 SWD
FIELD	STRANATHAN
PROVINCE/COUNTY	HARPER
COUNTRY/STATE	U.S.A/ KANSAS

Elevation Kelly Bushing	1301.50	feet	First Reading	5737.00	feet
Elevation Drill Floor	1299.50	feet	Depth Driller	5737.00	feet
Elevation Ground Level	1284.00	feet	Depth Logger	5740.00	feet

Weatherford

ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG