



Weatherford

**ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG**

COMPANY **STELBAR OIL CORPORATION, INC.**

WELL **WINDERLIN 1-8**

FIELD **WILDCAT**

PROVINCE/COUNTY **SCOTT**

COUNTRY/STATE **U.S.A. / KANSAS**

LOCATION **335' FSL & 425' FWL**

PERMIT NUMBER **NE SW SW SW**

SEC 8 **TWP 17S RGE 32W** Other Services

Latitude **38.585012533** MPD/MDN **MML**

Longitude **-100.887941719** MSS

API Number **15-171-21107**

Permanent Datum GL, Elevation 2976 feet

Log Measured From KB

Drilling Measured From KB @ 5 FEET

Elevations:
KB 2981.00
DF 2979.00
GL 2976.00

Date **19-NOV-2014**

Run Number **ONE**

Service Order **7036-103561140**

Depth Driller **4726.00** feet

Depth Logger **4729.00** feet

First Reading **4725.66** feet

Last Reading **343.00** feet

Casing Driller **343.00** feet

Casing Logger **343.00** feet

Bit Size **7.875** inches

Hole Fluid Type **WBM**

Density / Viscosity **9.30** lb/USg **50.00** CP

PH / Fluid Loss **9.00** **8.00** ml/30Min

Sample Source **MUDPIT**

Rm @ Measured Temp **0.95 @ 75.0** ohm-m

Rmf @ Measured Temp **0.76 @ 75.0** ohm-m

Rmc @ Measured Temp **1.14 @ 75.0** ohm-m

Source Rmf / Rmc **CALC** **CALC**

Rm @ BHT **0.62 @ 117.0** ohm-m

Time Since Circulation **4 HOURS**

Max Recorded Temp **117.00** deg F

Equipment / Base **13096** LIB

Recorded By **DEREK CARTER**

Witnessed By **DAVE GOLDAK**

JOB # **LB14-361**

BOREHOLE RECORD

Last Edited: 19-NOV-2014 01:40

Bit Size inches	Depth From feet	Depth To feet
7.875	343.00	4726.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	8.625	0.00	343.00	24.00

REMARKS

- SOFTWARE ISSUE: WLS 14.05.5280
- TOOL STRING: MCG, MML, MDN, MPD, MFE, MSS, MAI RUN IN COMBINATION
- HARDWARE:
MDN: DUAL BOWSPRING ECCENTRALIZER
MFE: 1 X 0.5 INCH STANDOFF
MSS: 2 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 3700 FT.: 340 CU. FT.

- ANNULAR HOLE VOLUME WITH 5.5 INCH CASING FROM TD TO 3700 FT.: 180 CU. FT.

- SERVICE ORDER # 7036-103561140

- RIG: WW DRILLING #8

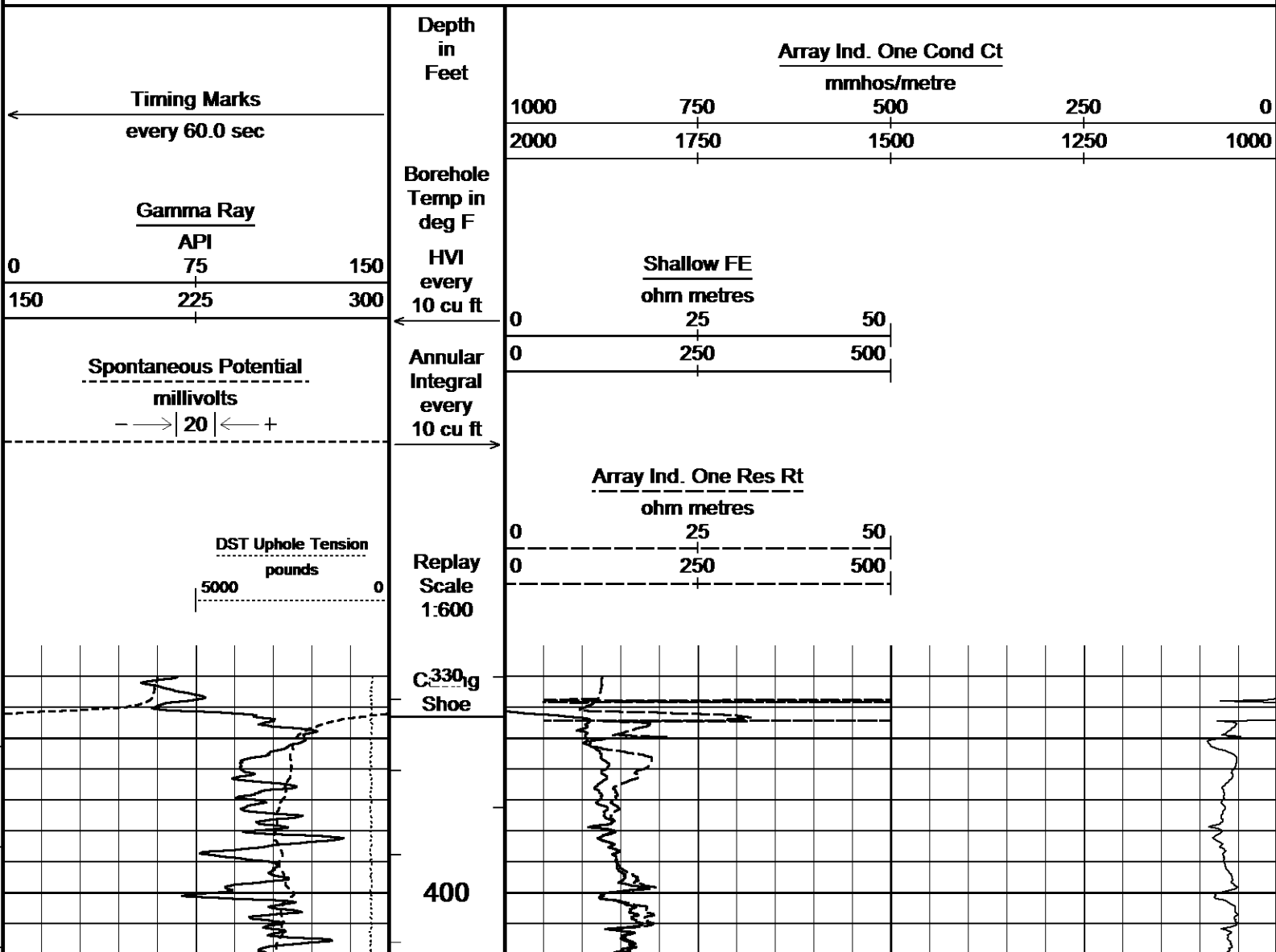
- ENGINEER: DEREK CARTER

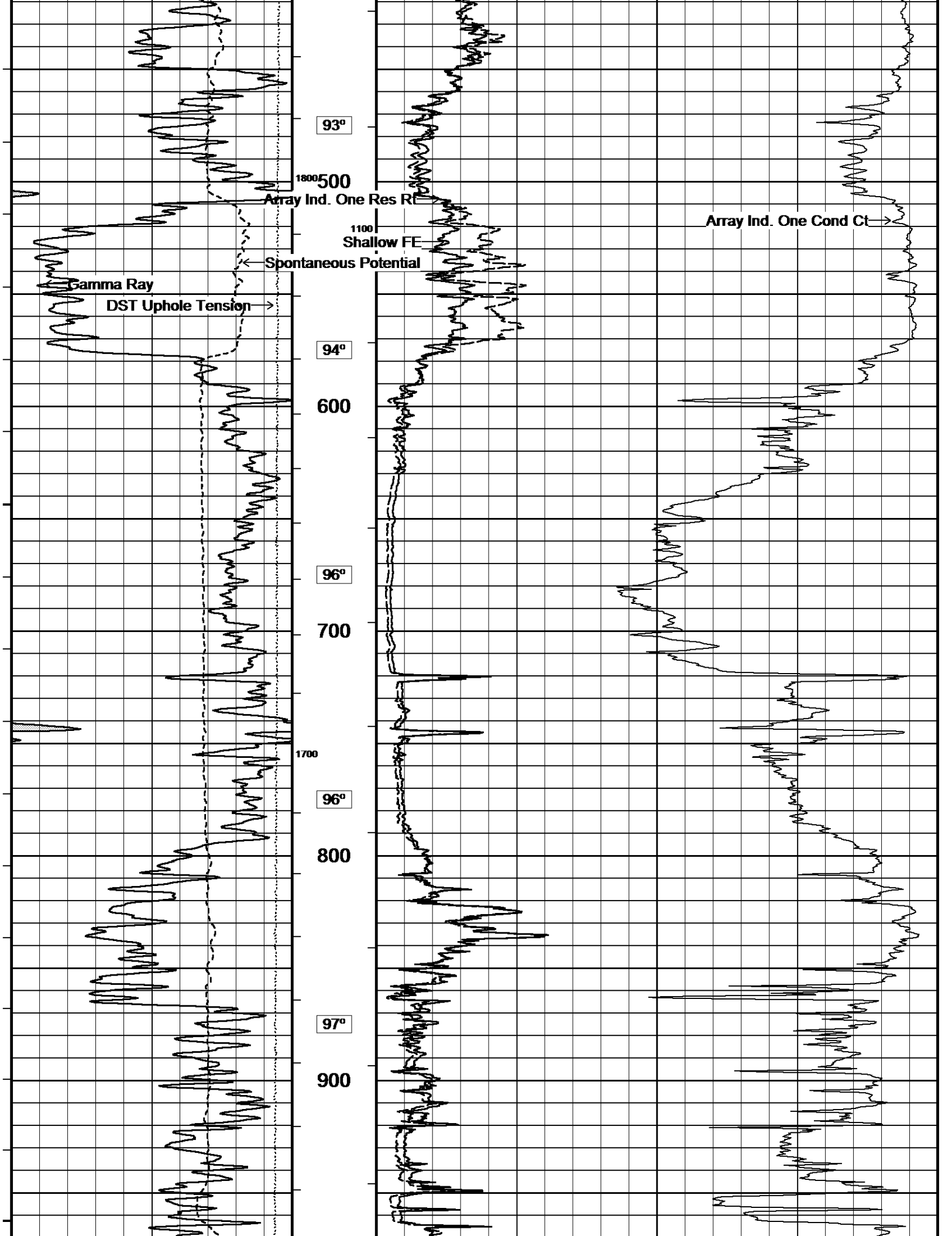
- OPERATORS: CARLOS RAMIREZ

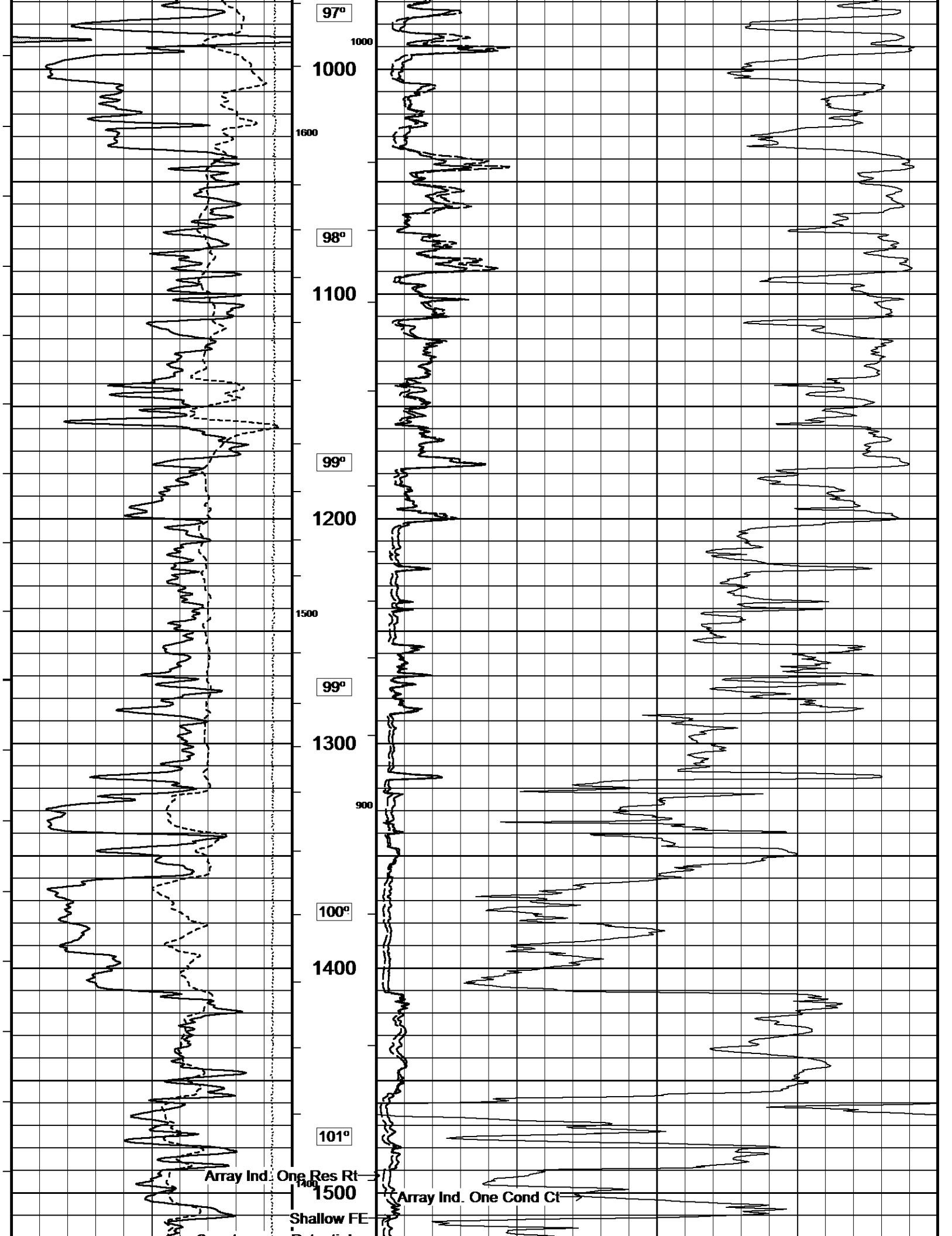
In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will give the Company the benefit of the Contractor's best judgment based on its experience and will perform all such Work in a good and workmanlike manner. Any interpretation of test or other data, and any recommendation or reservoir description based upon such interpretations, are opinions based upon inferences from measurements and empirical relationships and assumptions, which inferences and assumptions are not infallible, and with respect to which professional engineers and analysts may differ. ACCORDINGLY ANY INTERPRETATION OR RECOMMENDATION RESULTING FROM THE SERVICES WILL BE AT THE SOLE RISK OF THE COMPANY, AND THE CONTRACTOR CANNOT AND DOES NOT WARRANT THE ACCURACY, CORRECTNESS OR COMPLETENESS OF ANY SUCH INTERPRETATION OR RECOMMENDATION, WHICH INTERPRETATIONS AND RECOMMENDATIONS SHOULD NOT, THEREFORE, UNDER ANY CIRCUMSTANCES BE RELIED UPON AS THE SOLE OR MAIN BASIS FOR ANY DRILLING, COMPLETION, WELL TREATMENT, PRODUCTION OR FINANCIAL DECISION, OR ANY PROCEDURE INVOLVING ANY RISK TO THE SAFETY OF ANY DRILLING ACTIVITY, DRILLING RIG OR ITS CREW OR ANY OTHER INDIVIDUAL. THE COMPANY HAS FULL RESPONSIBILITY FOR ALL DECISIONS CONCERNING THE SERVICES.

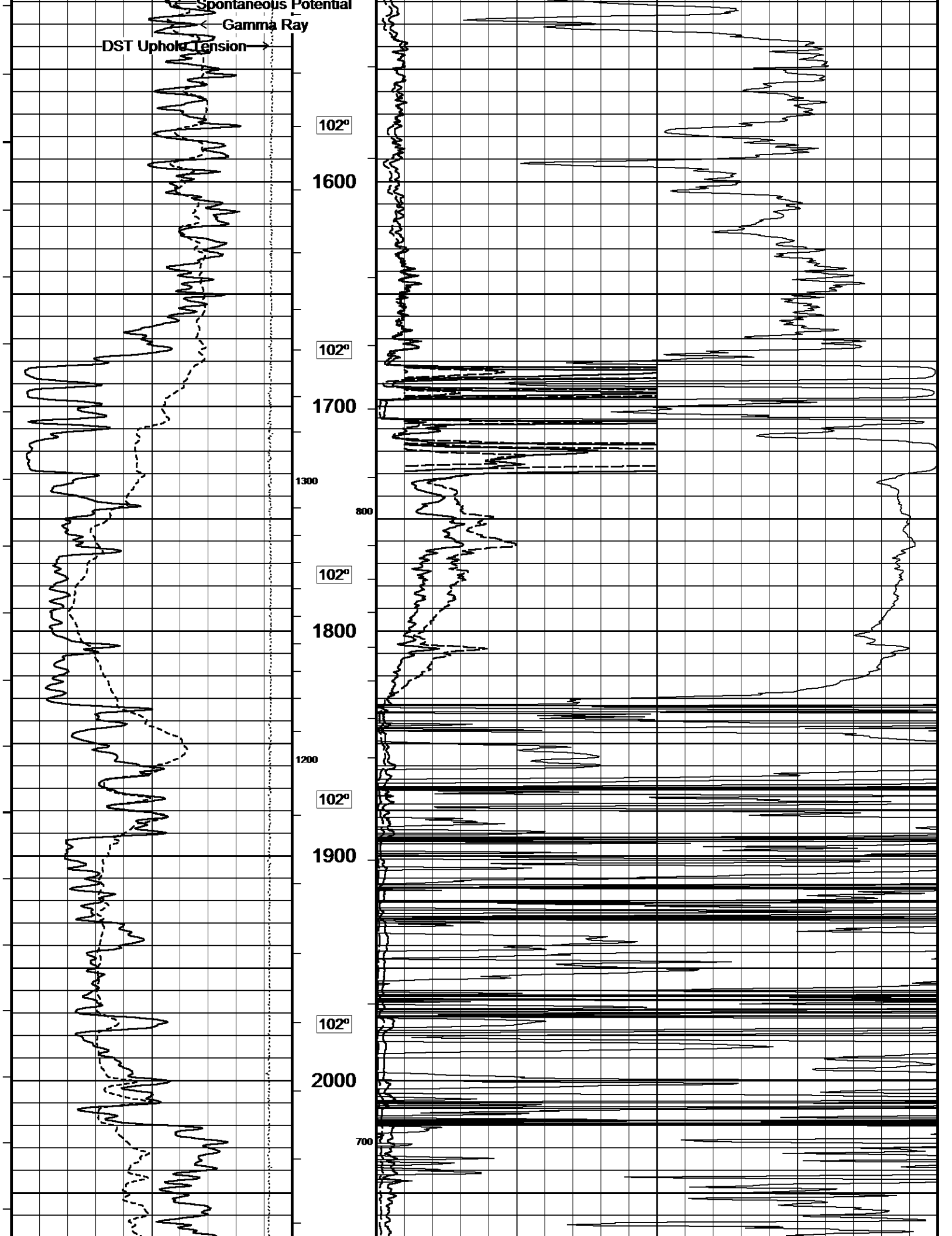
2 INCH MAIN

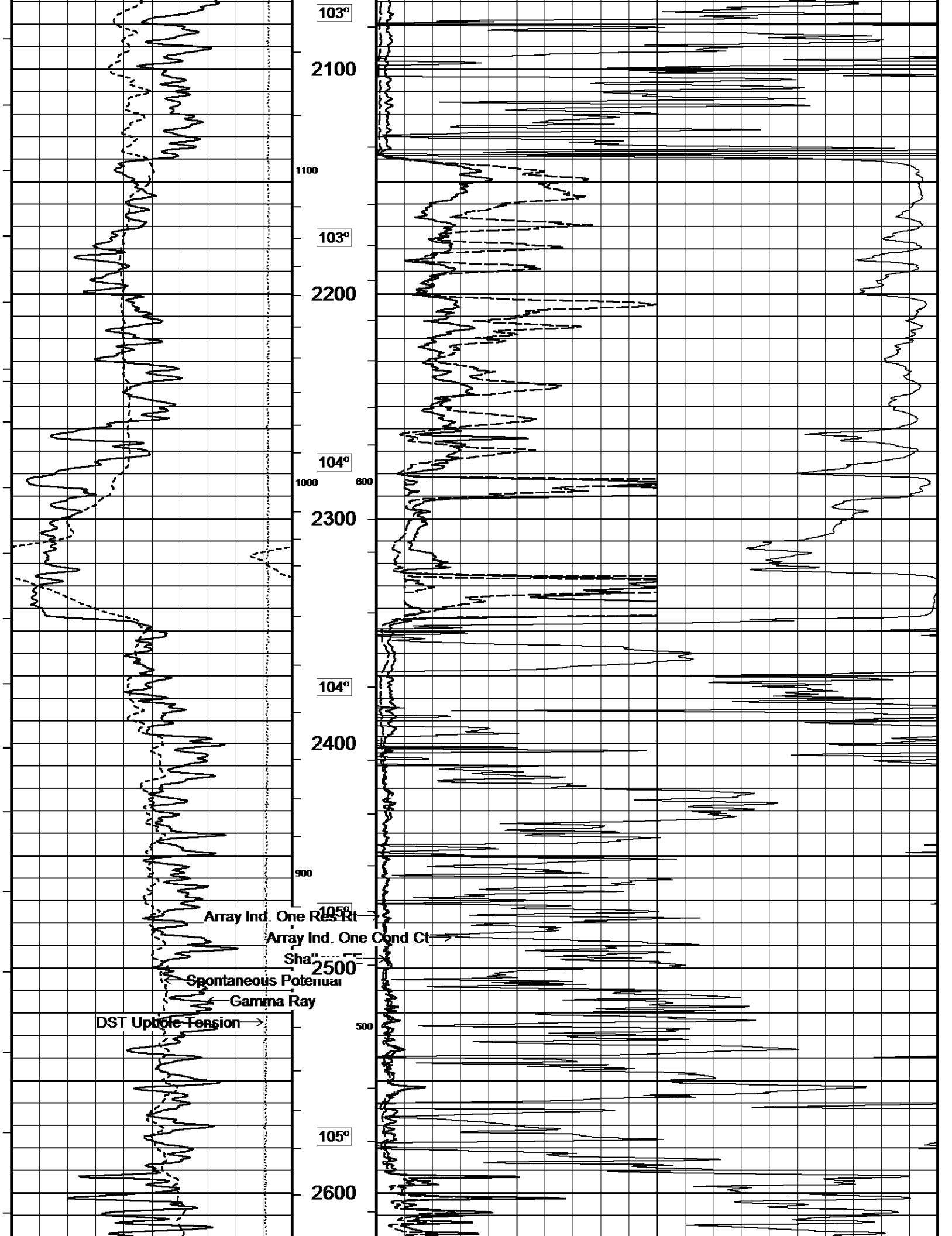
Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 19-NOV-2014 06:59
 Filename: C:\Minimus 14.05\Log Data\Stelbar Winderlin 1-8\Stelbar Winderlin 1-8 Main.dta Recorded on 19-NOV-2014 04:13
 System Versions: Logged with 14.05.5280 Plotted with 14.05.5280

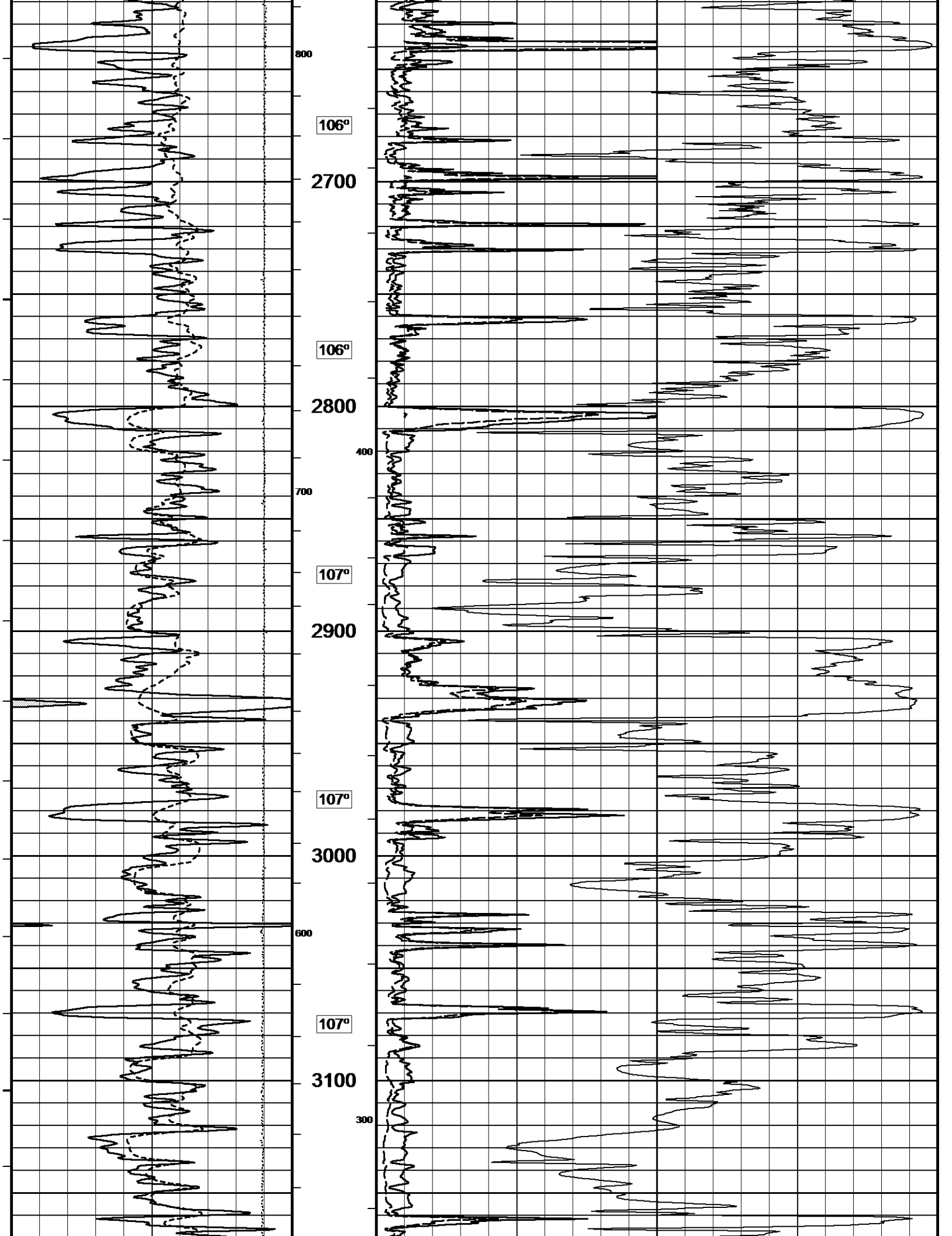


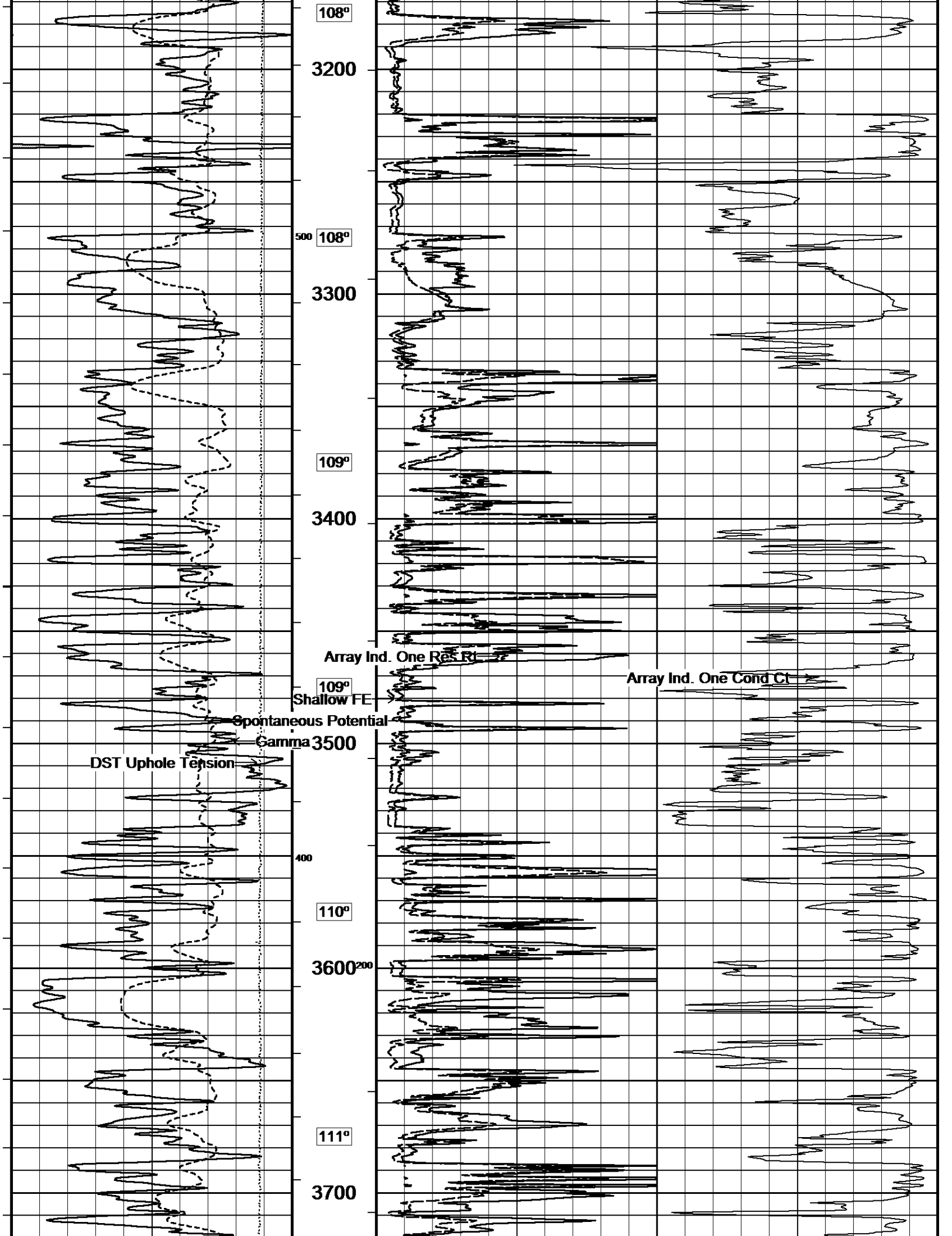


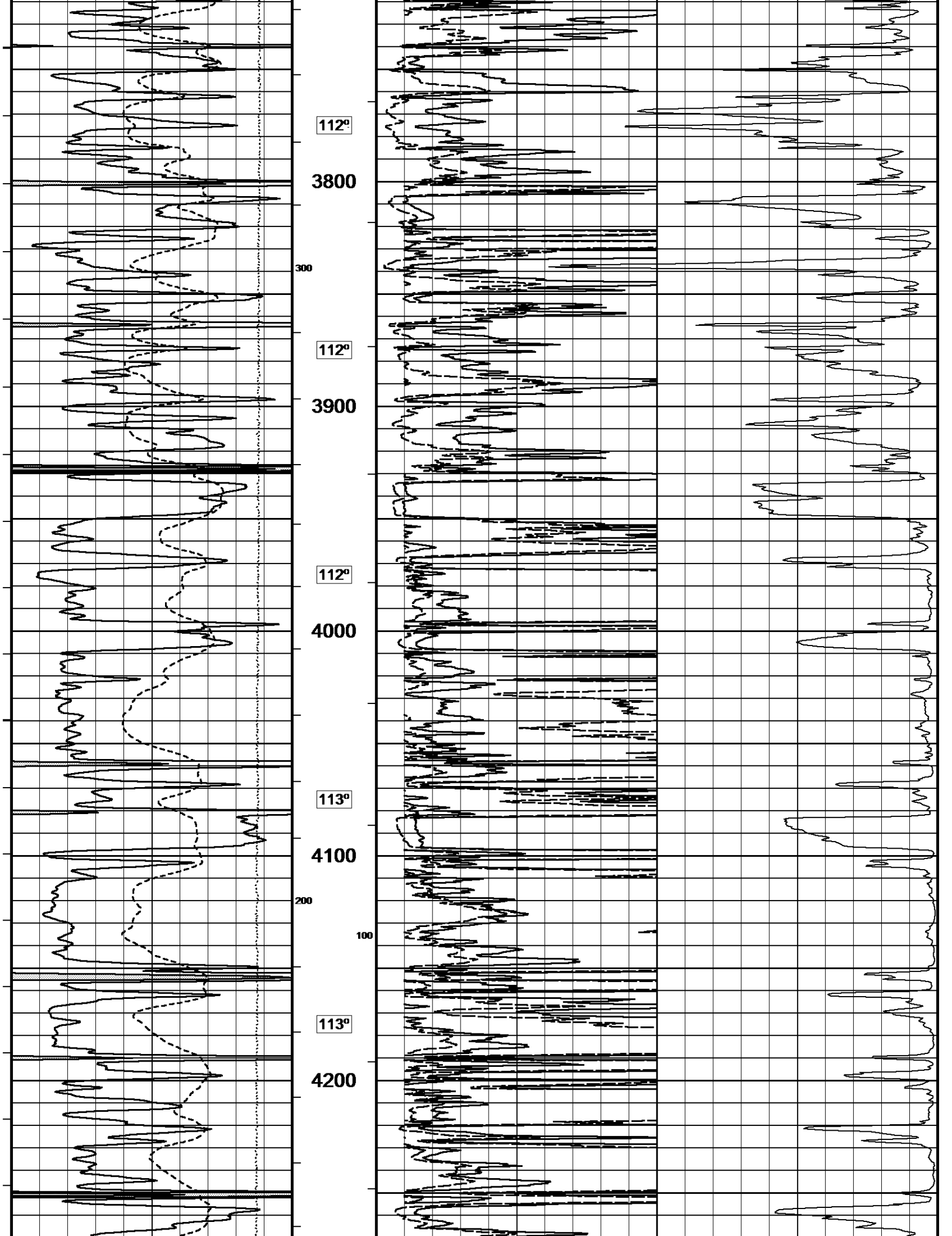


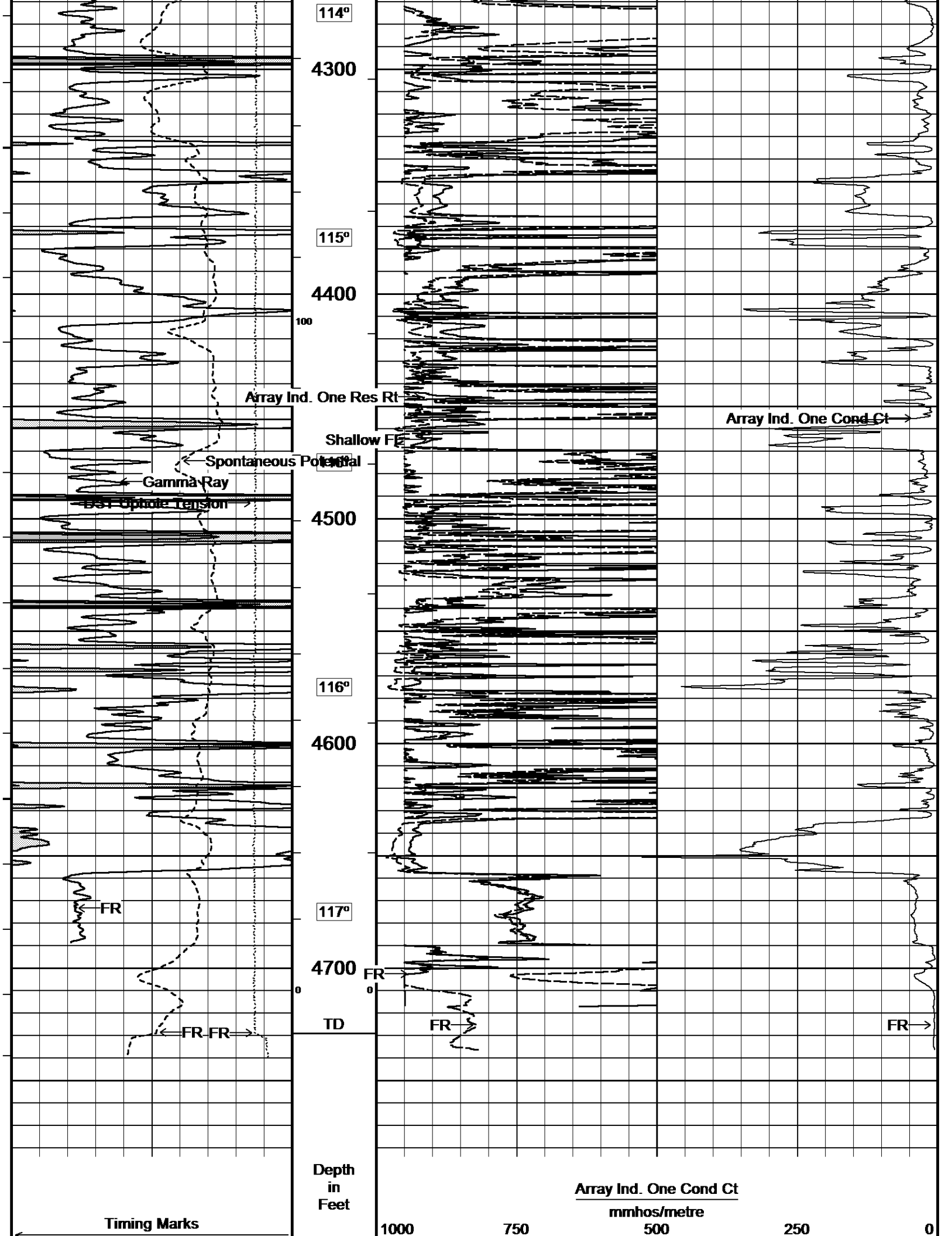


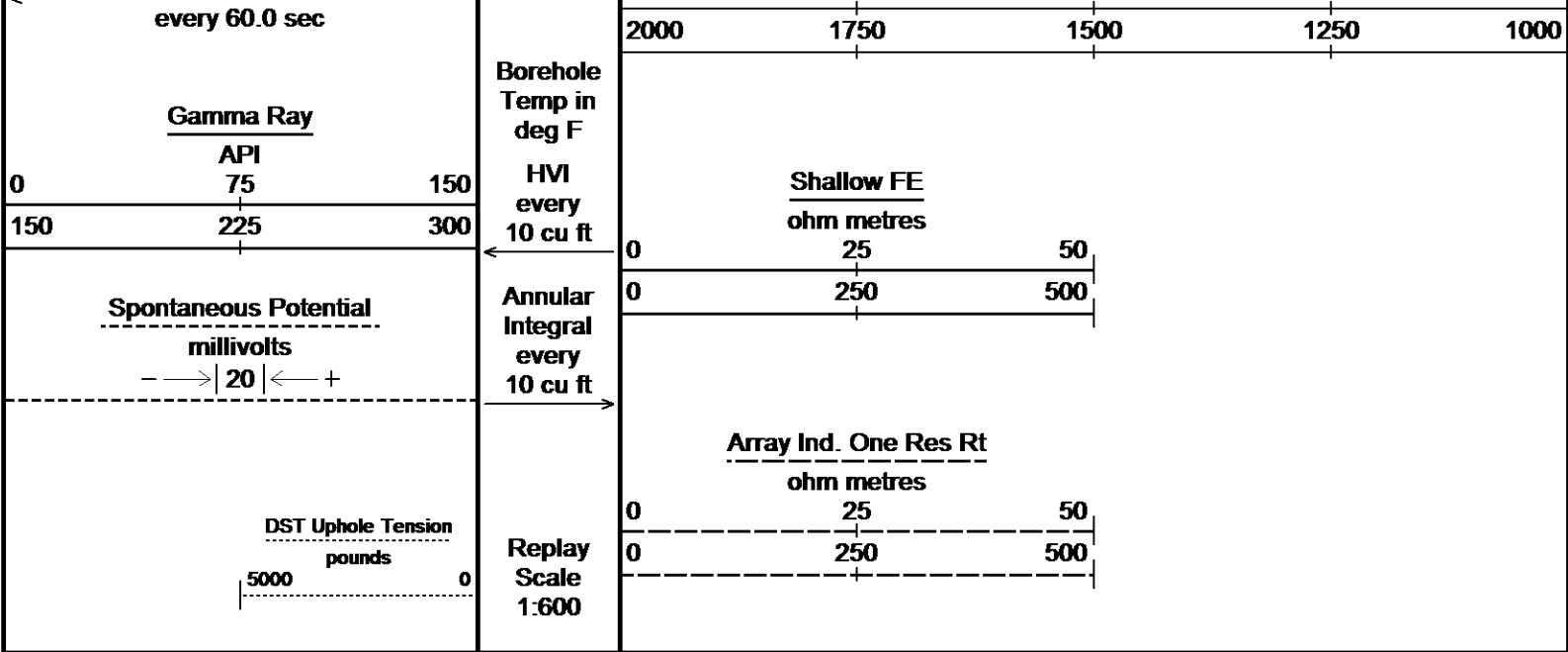










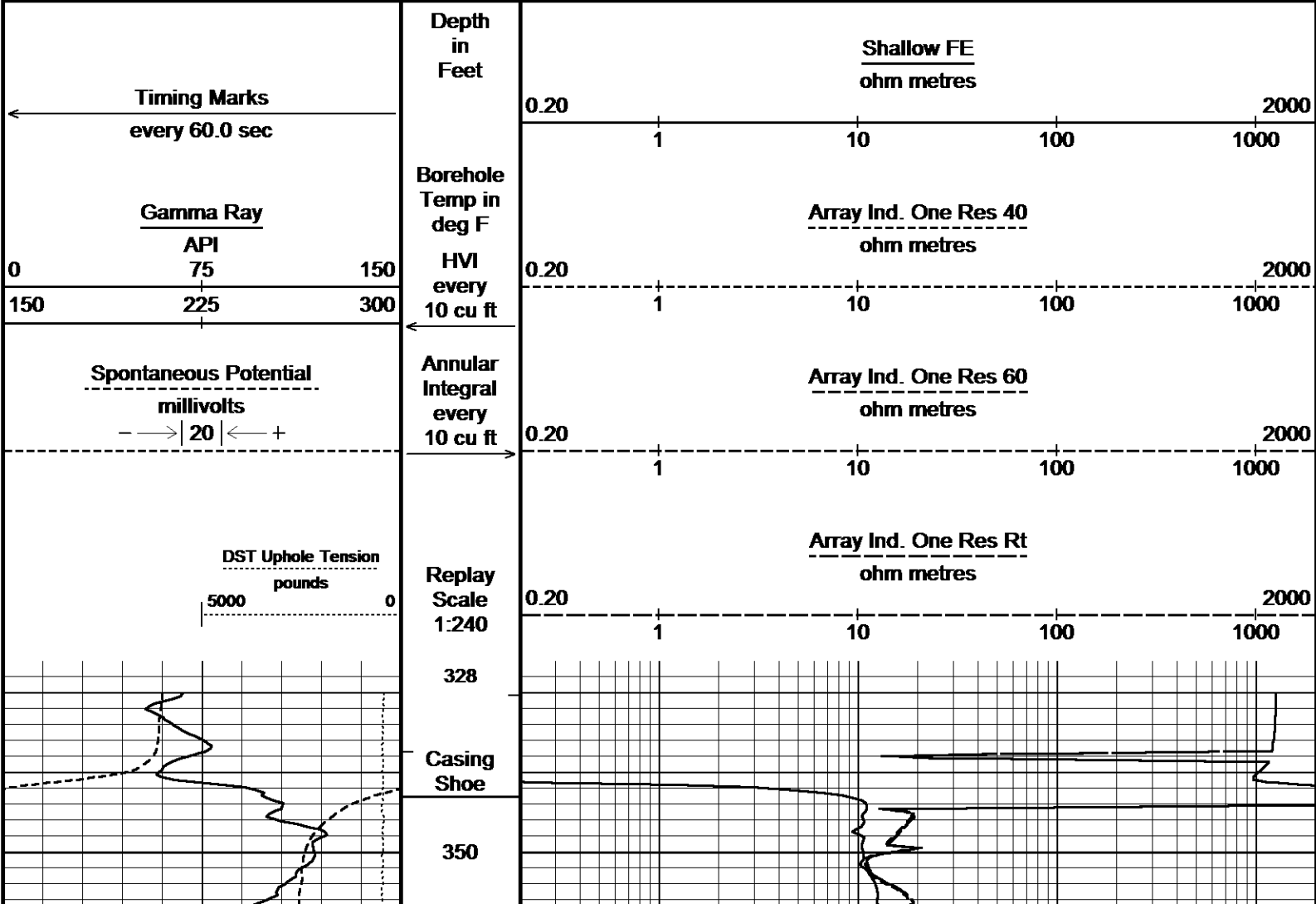


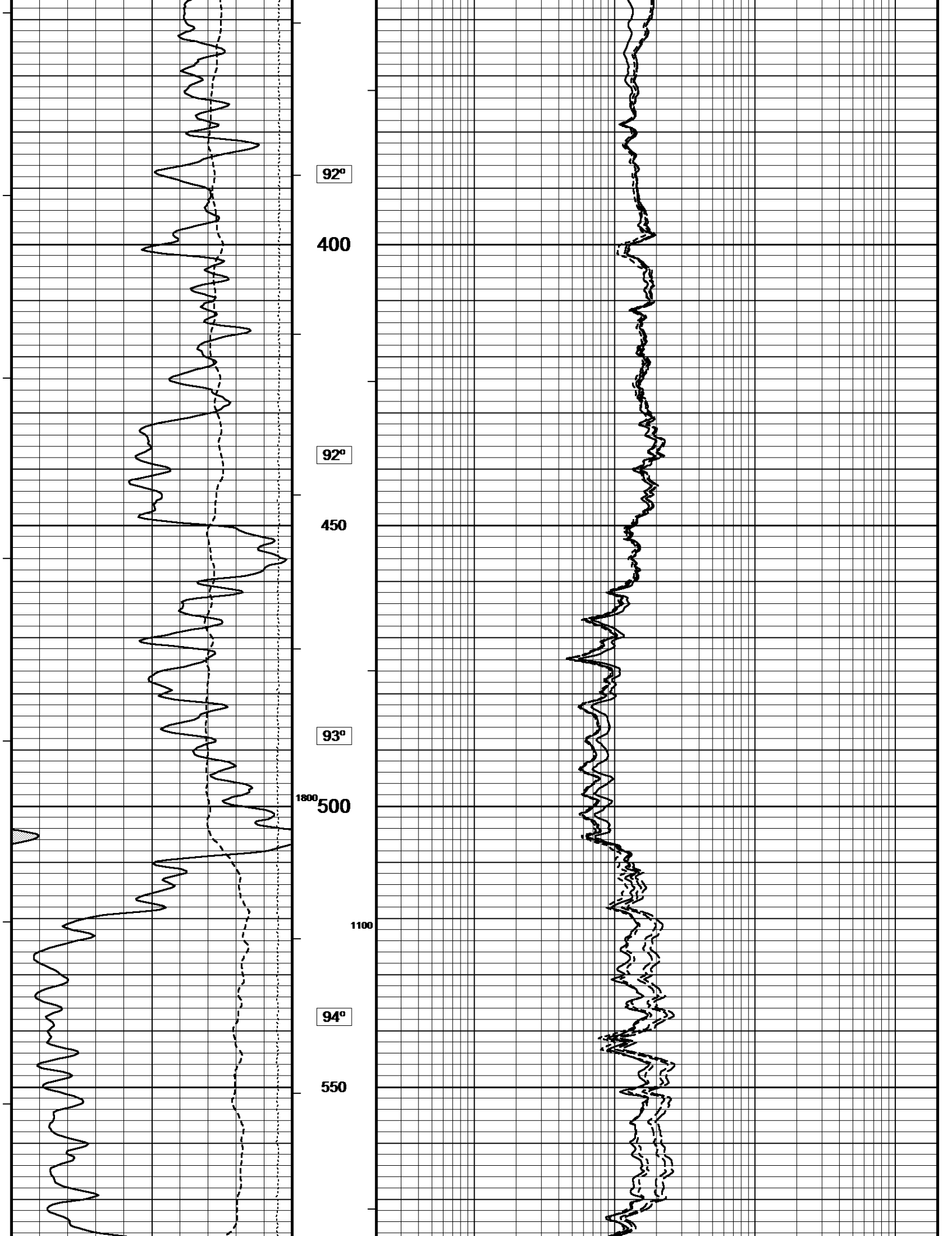
Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 19-NOV-2014 06:59
 Filename: C:\Minimus 14.05\Log Data\Stelbar Winderlin 1-8\Stelbar Winderlin 1-8 Main.dta Recorded on 19-NOV-2014 04:13
 System Versions: Logged with 14.05.5280 Plotted with 14.05.5280

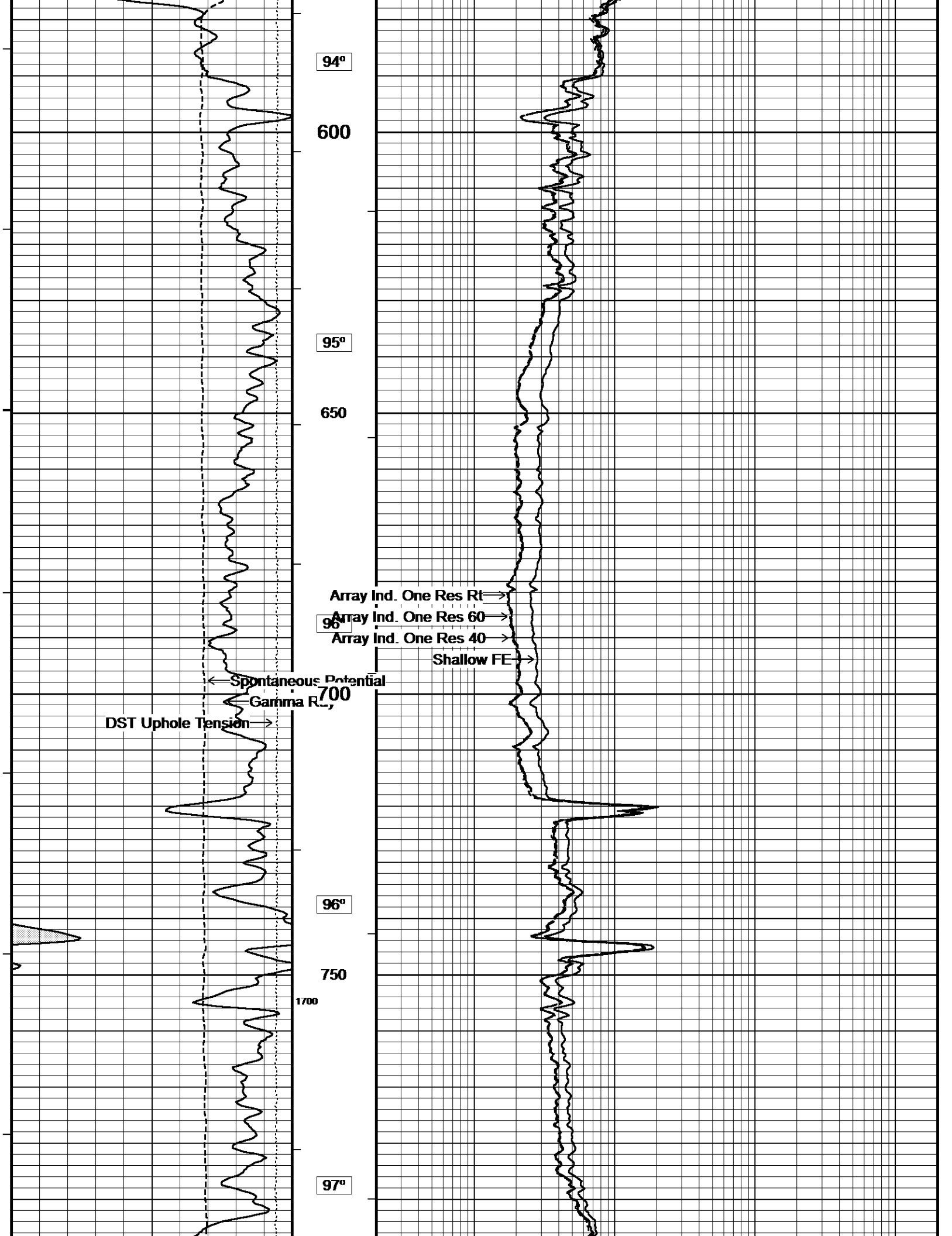
↑ 2 INCH MAIN ↑

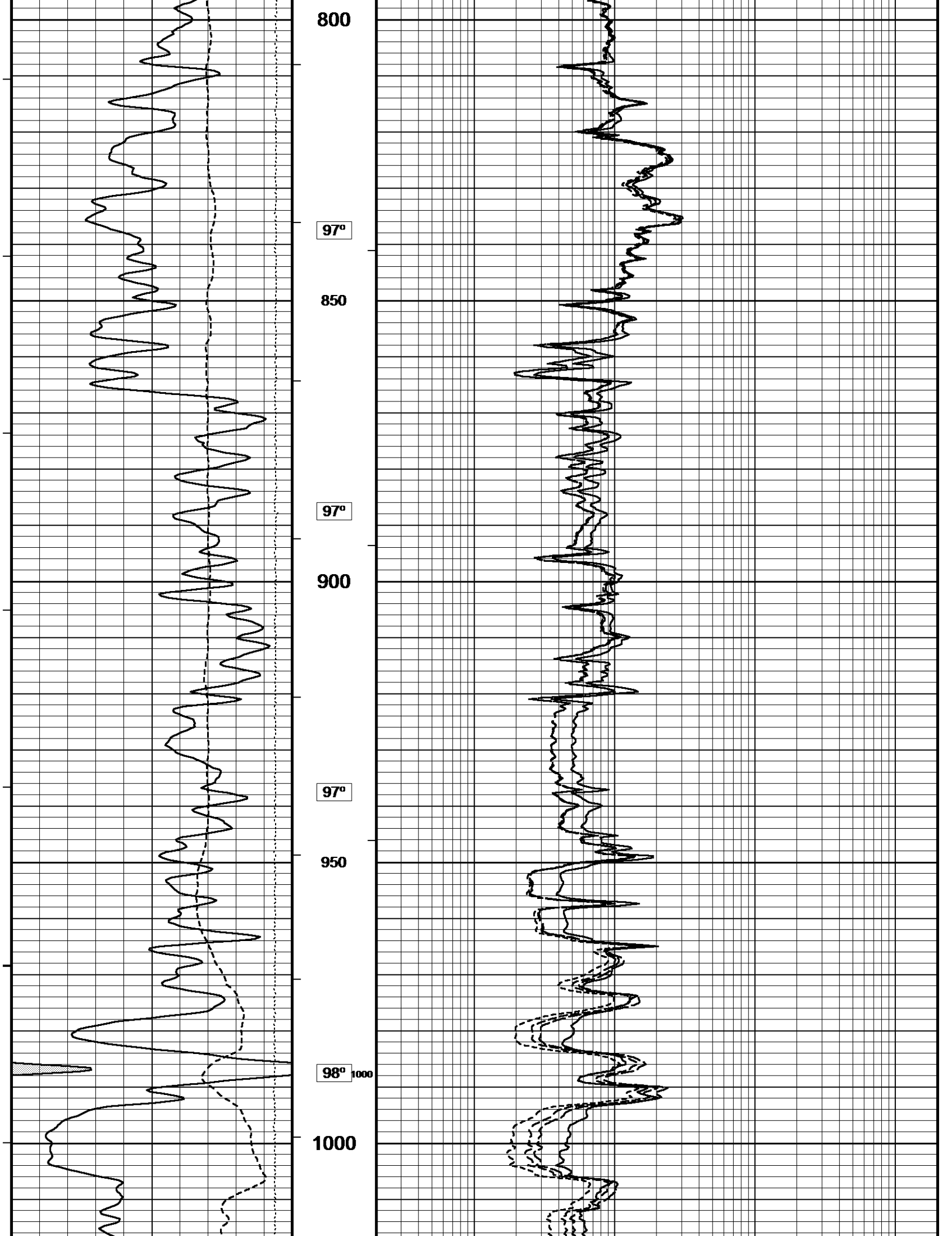
↓ 5 INCH MAIN ↓

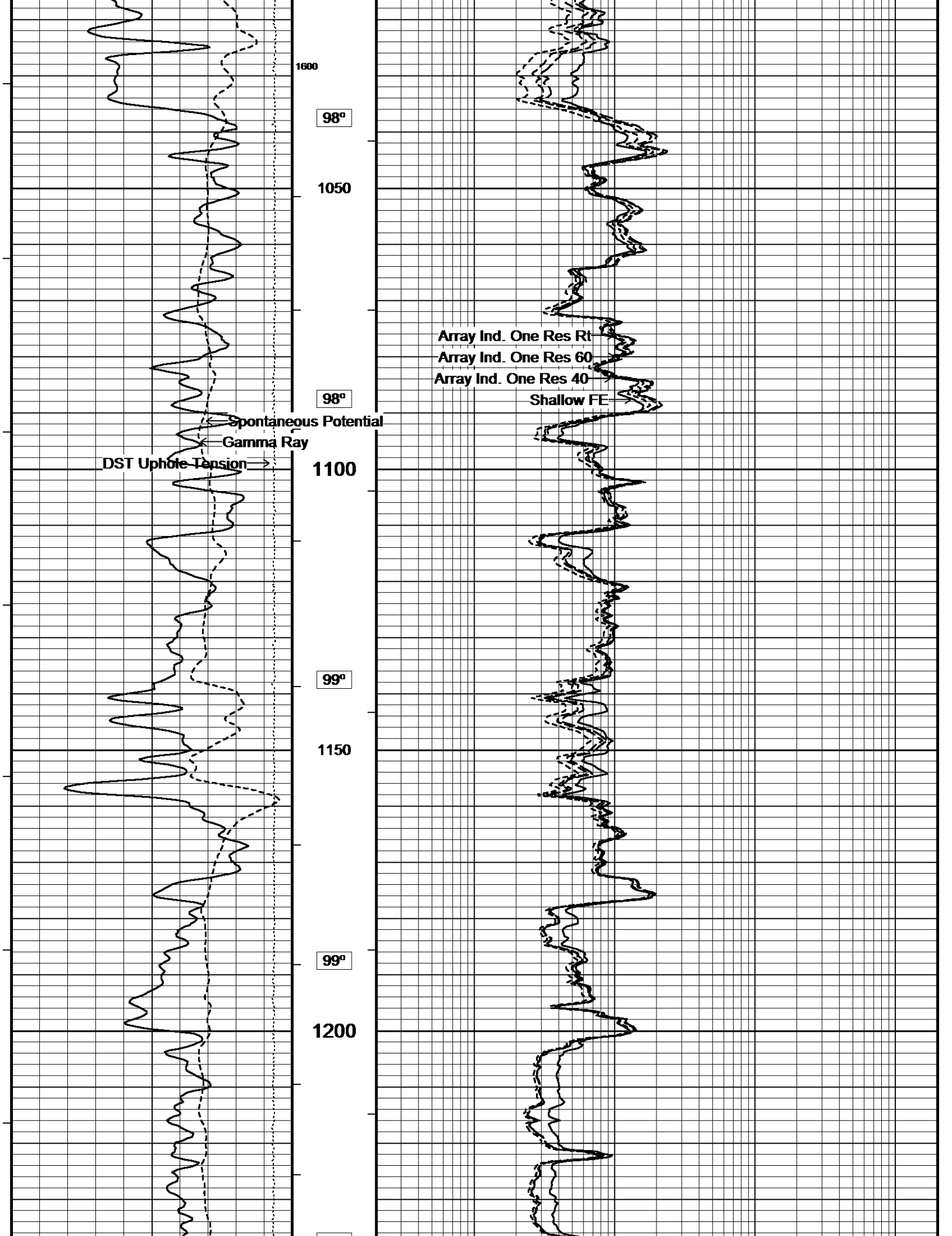
Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 19-NOV-2014 06:59
 Filename: C:\Minimus 14.05\Log Data\Stelbar Winderlin 1-8\Stelbar Winderlin 1-8 Main.dta Recorded on 19-NOV-2014 04:13
 System Versions: Logged with 14.05.5280 Plotted with 14.05.5280

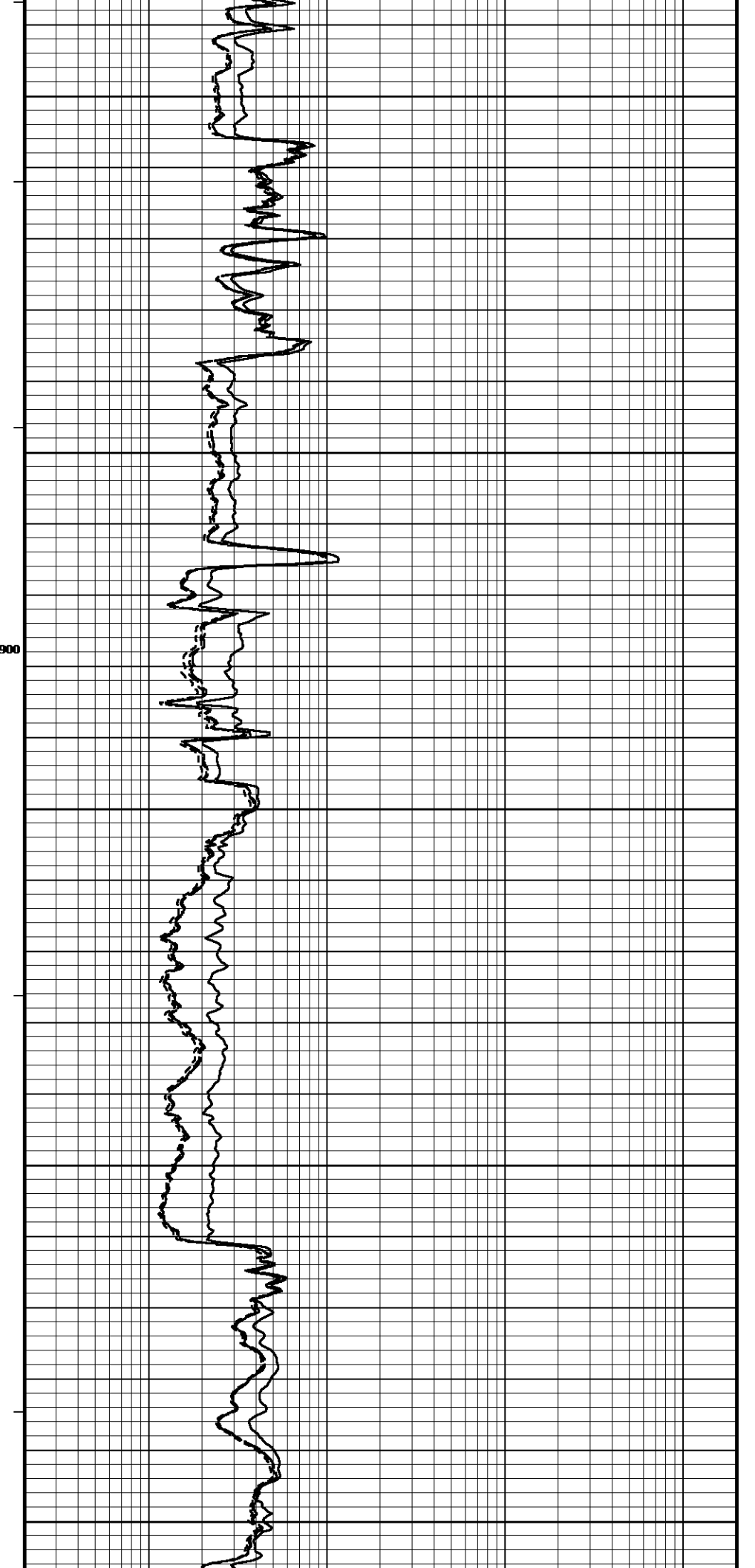
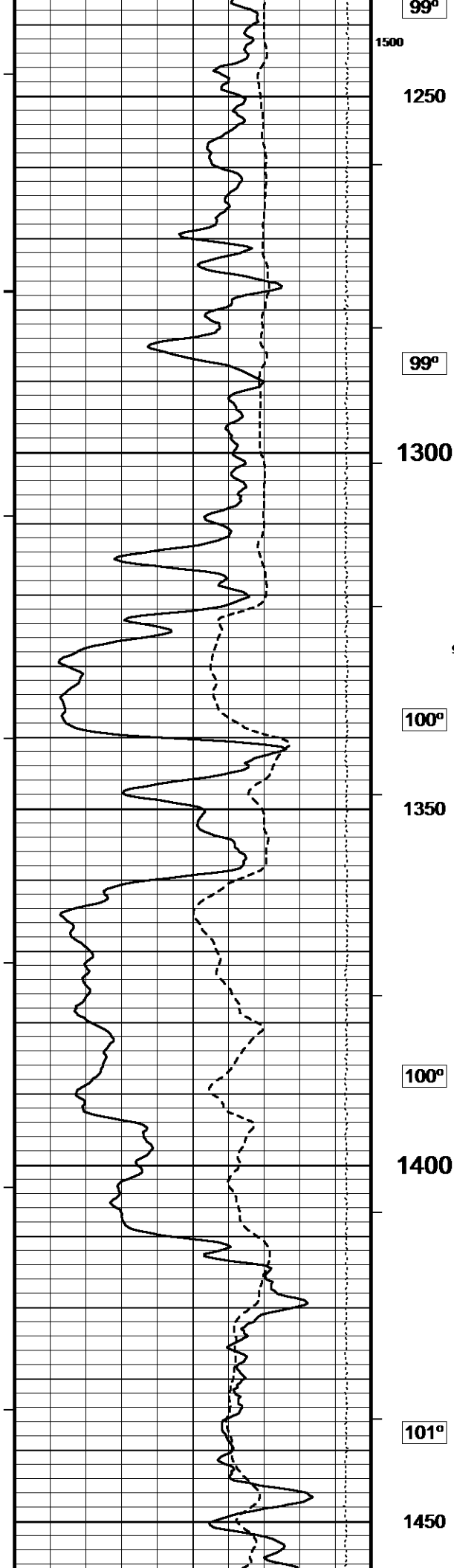


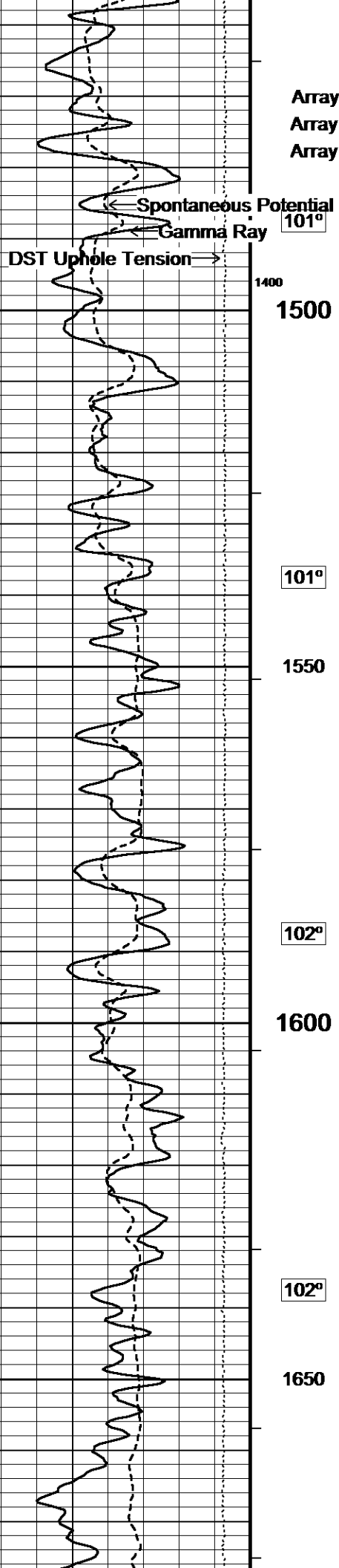












Array Ind. One Res Rt
Array Ind. One Res 60
Array Ind. One Res 40

Shallow FE

101°

101°

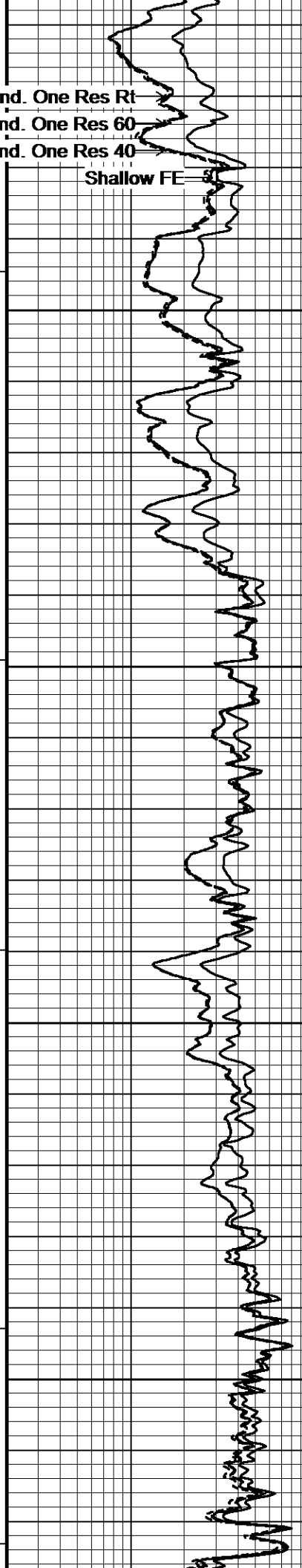
1550

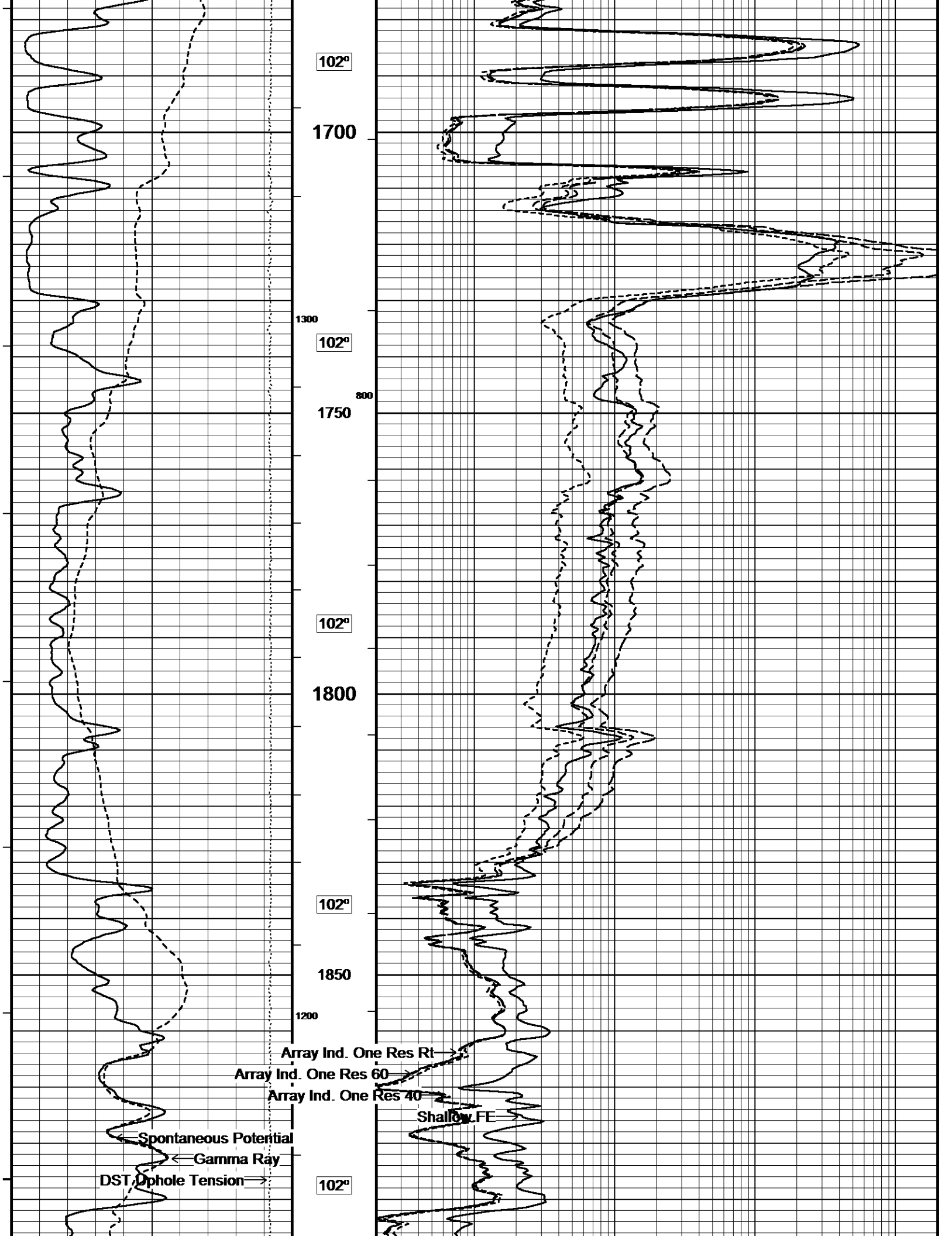
102°

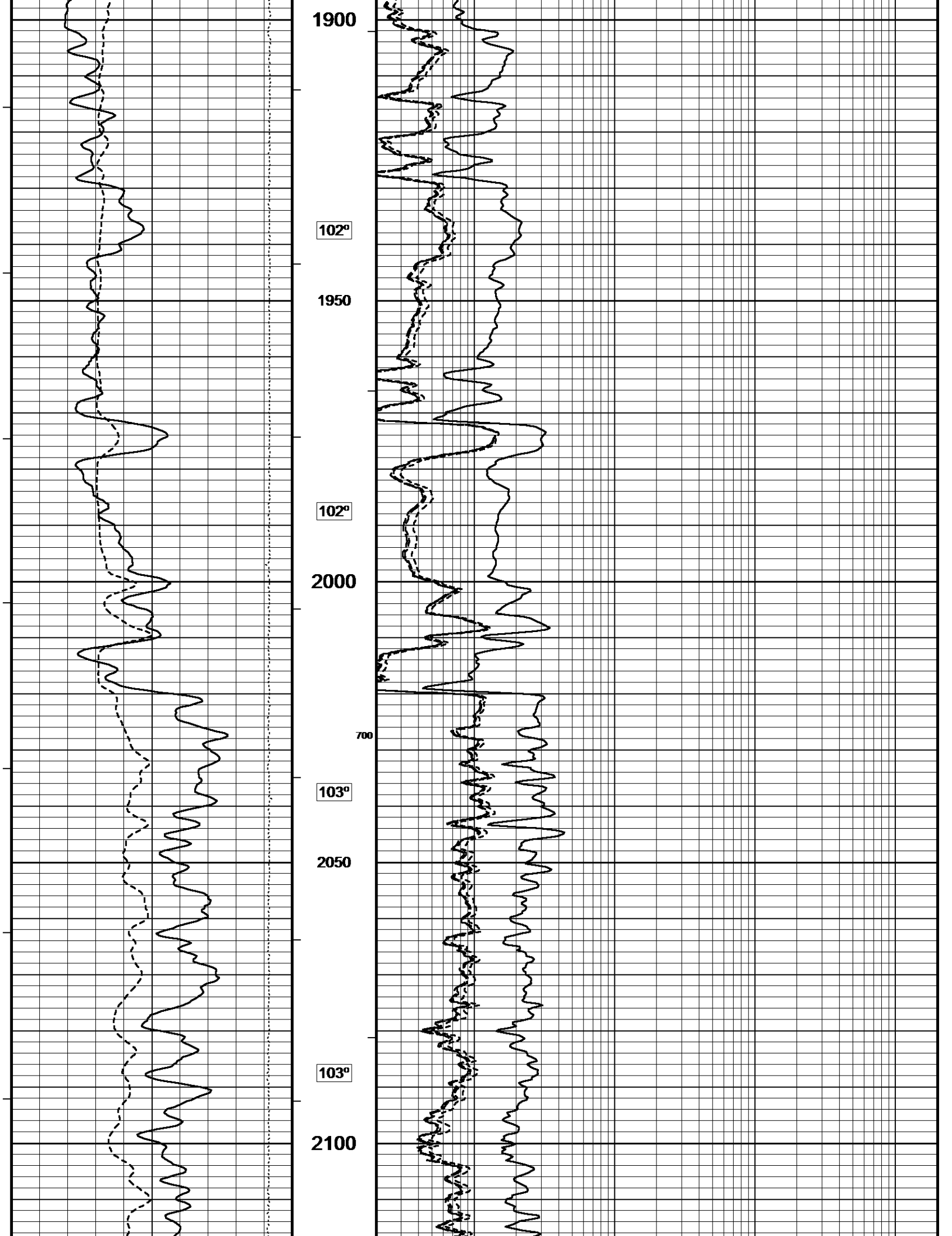
1600

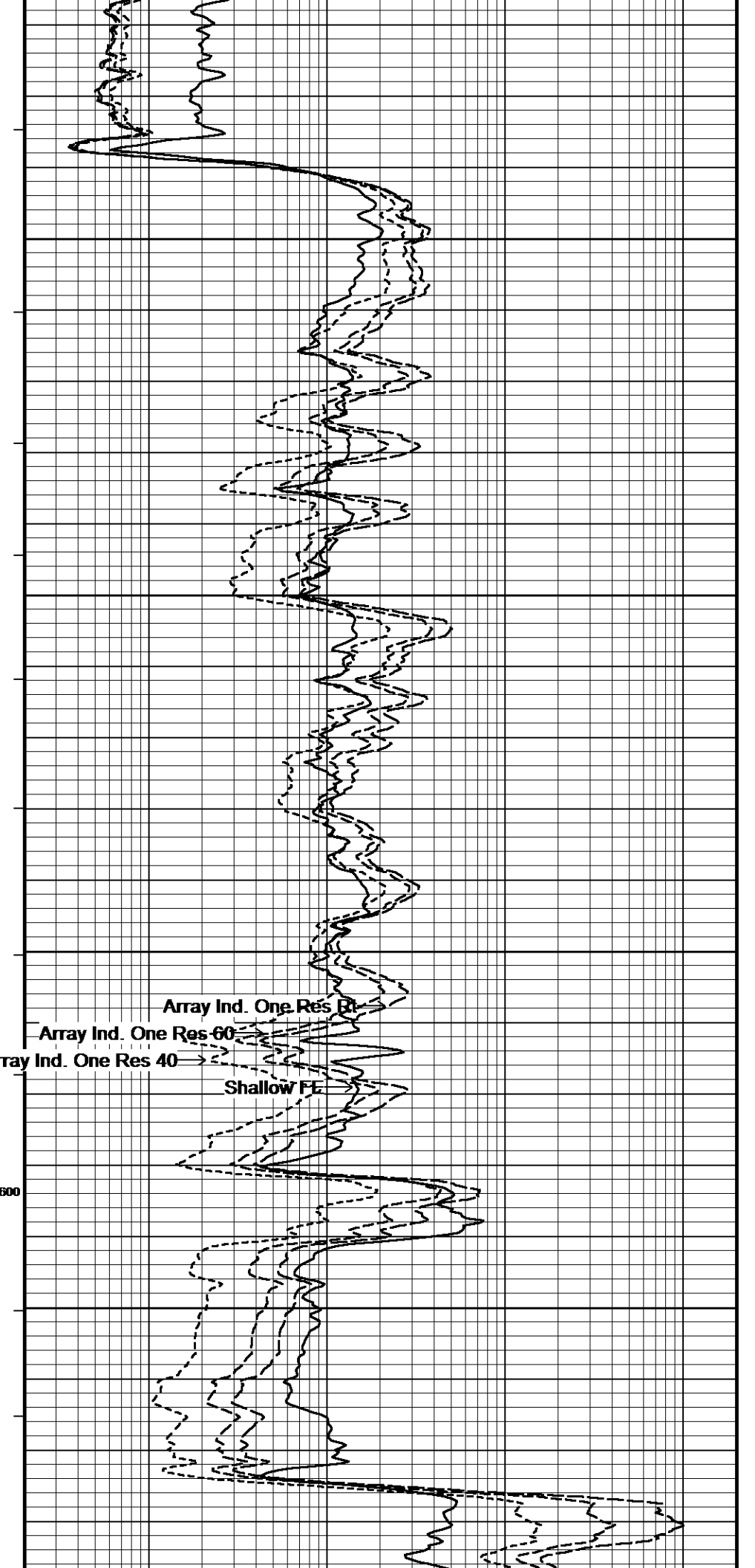
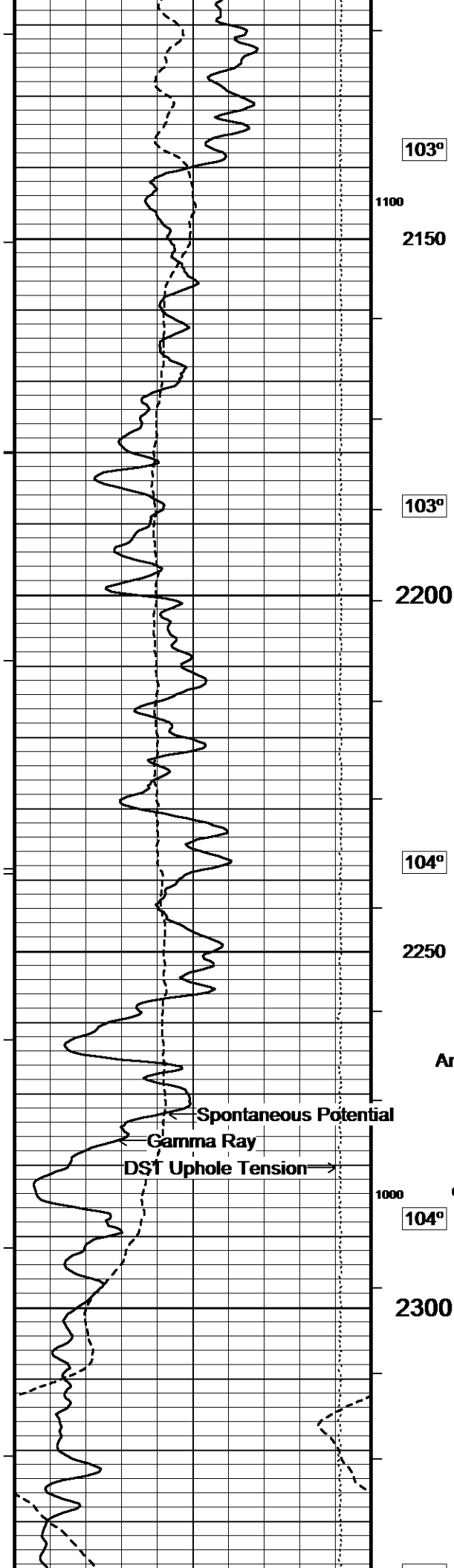
102°

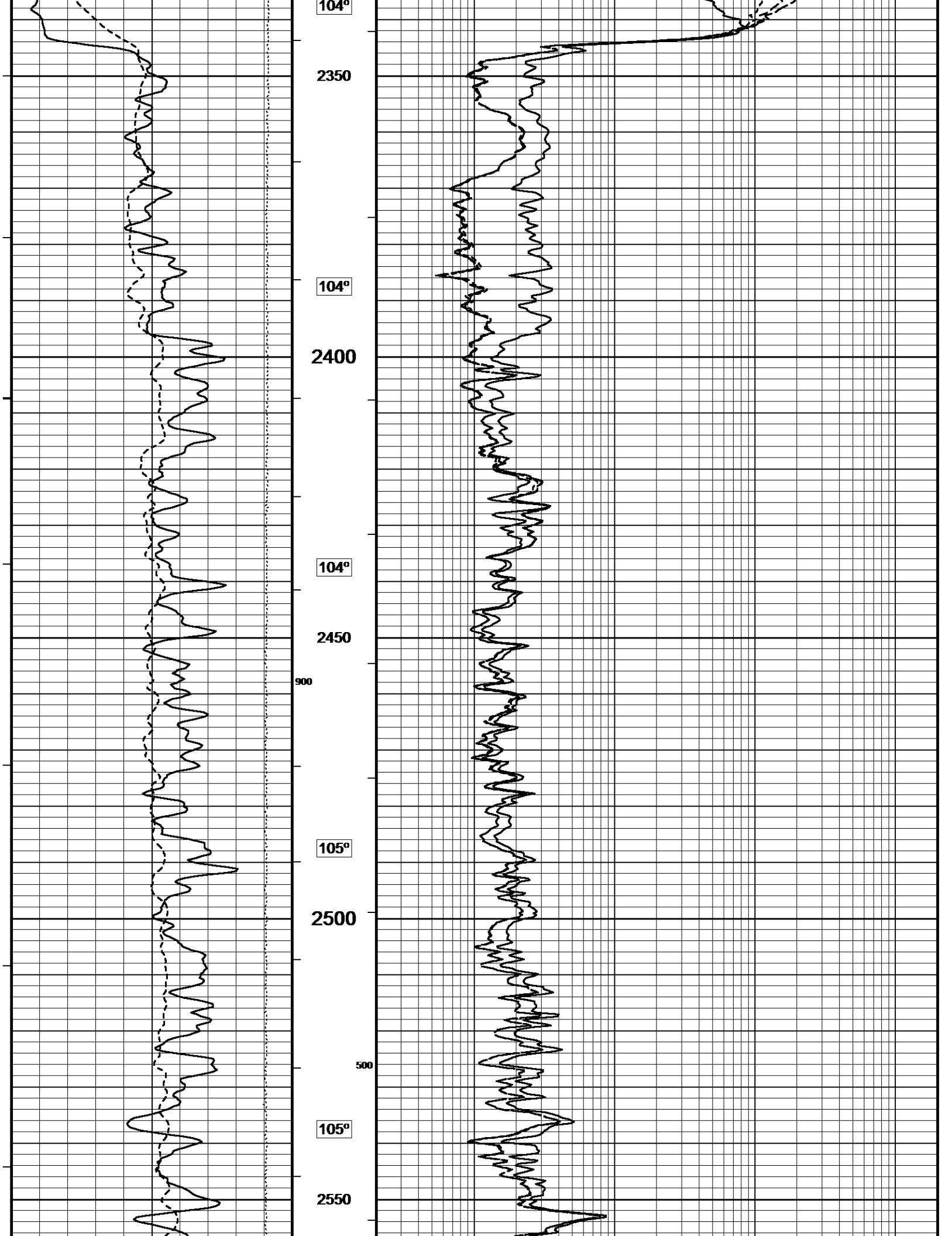
1650

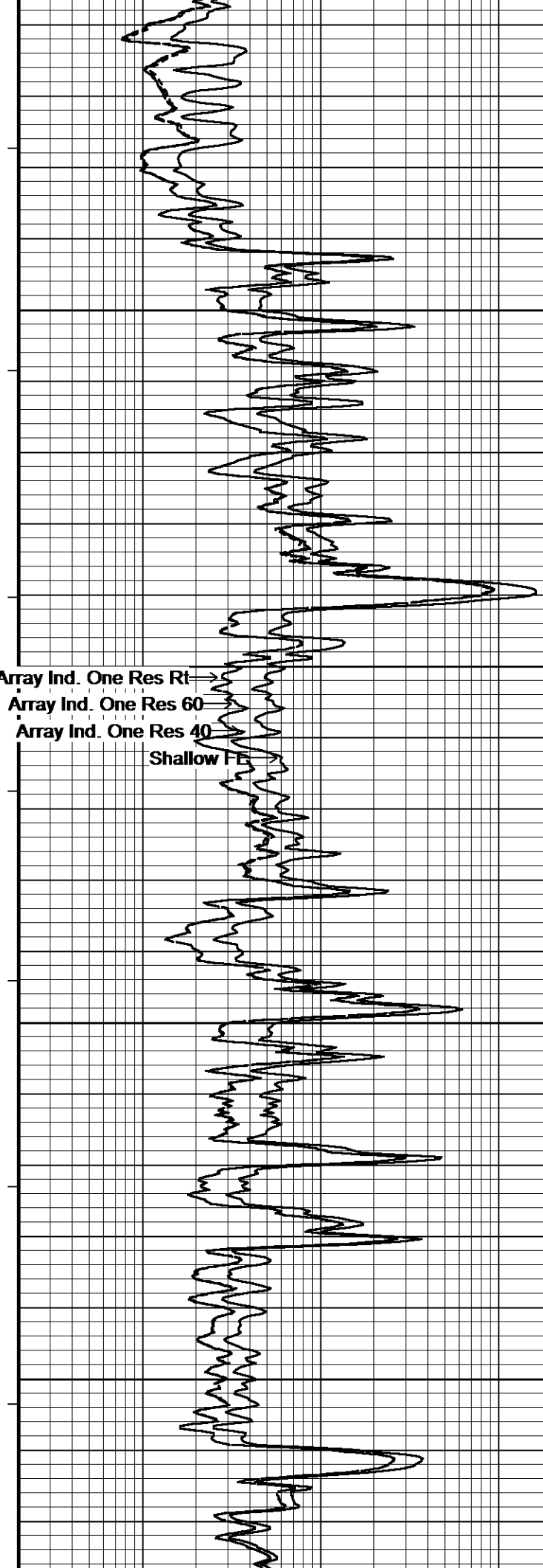
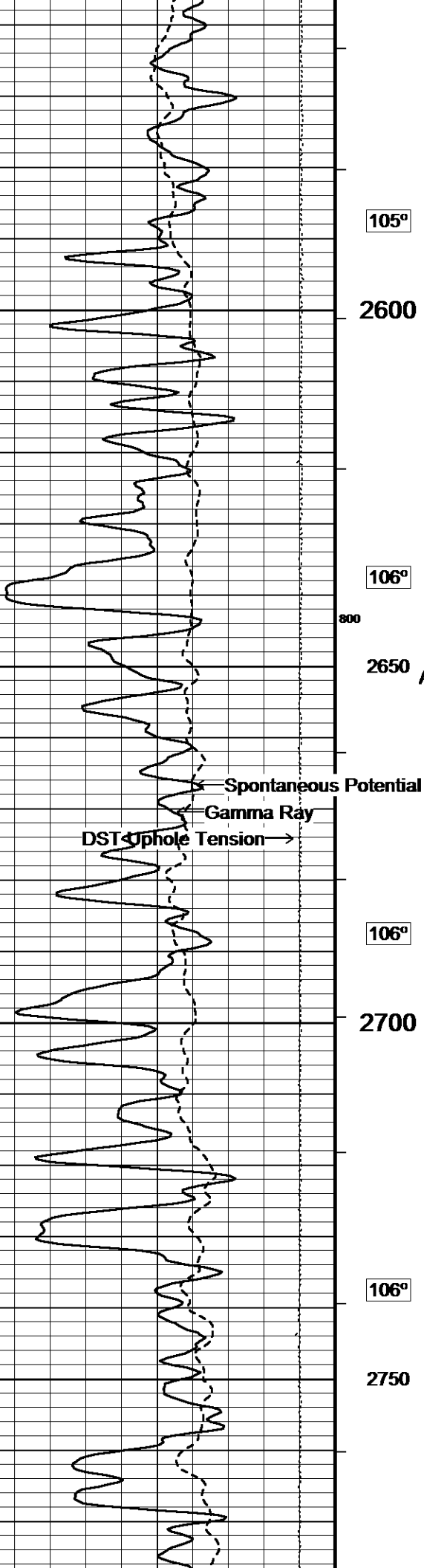


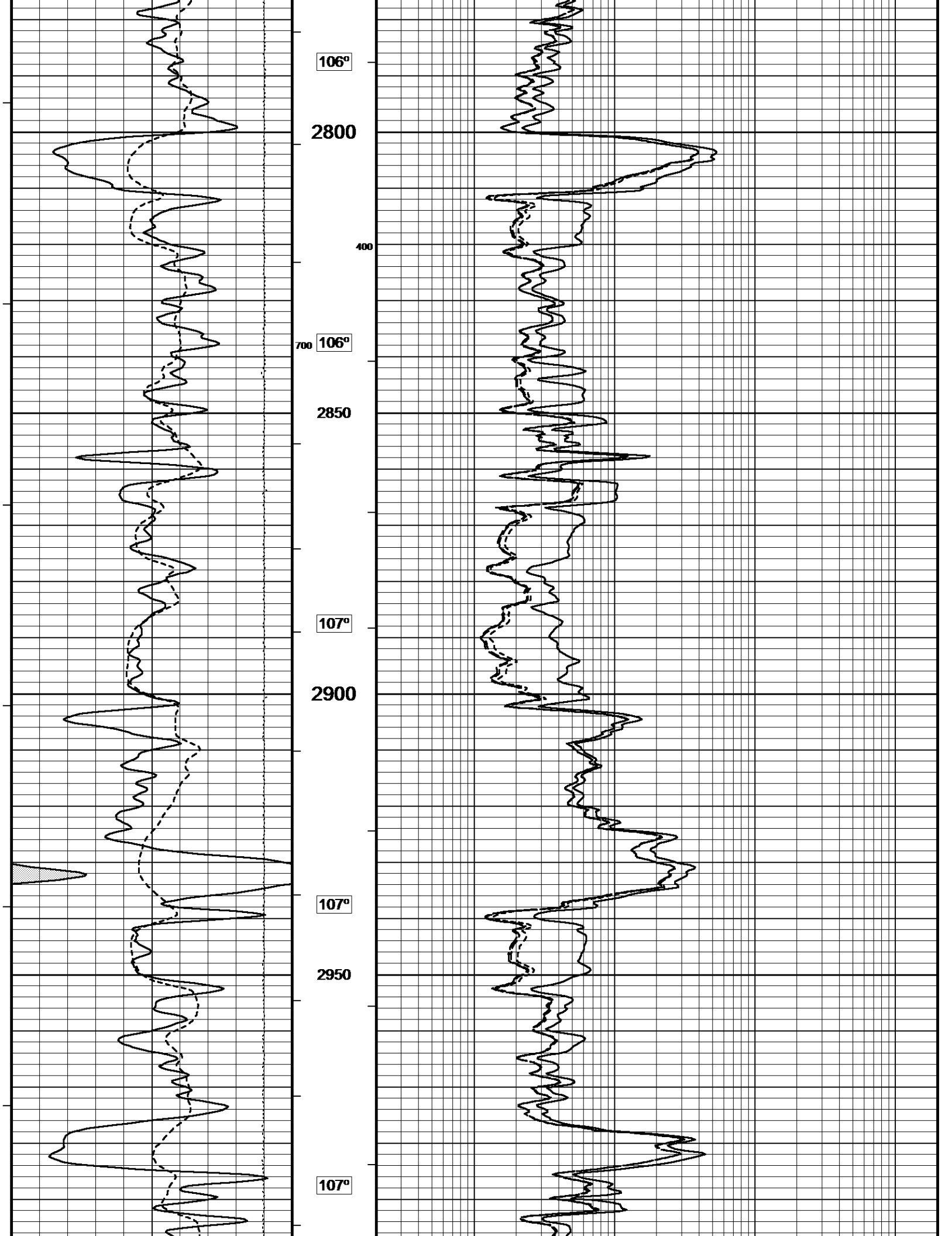


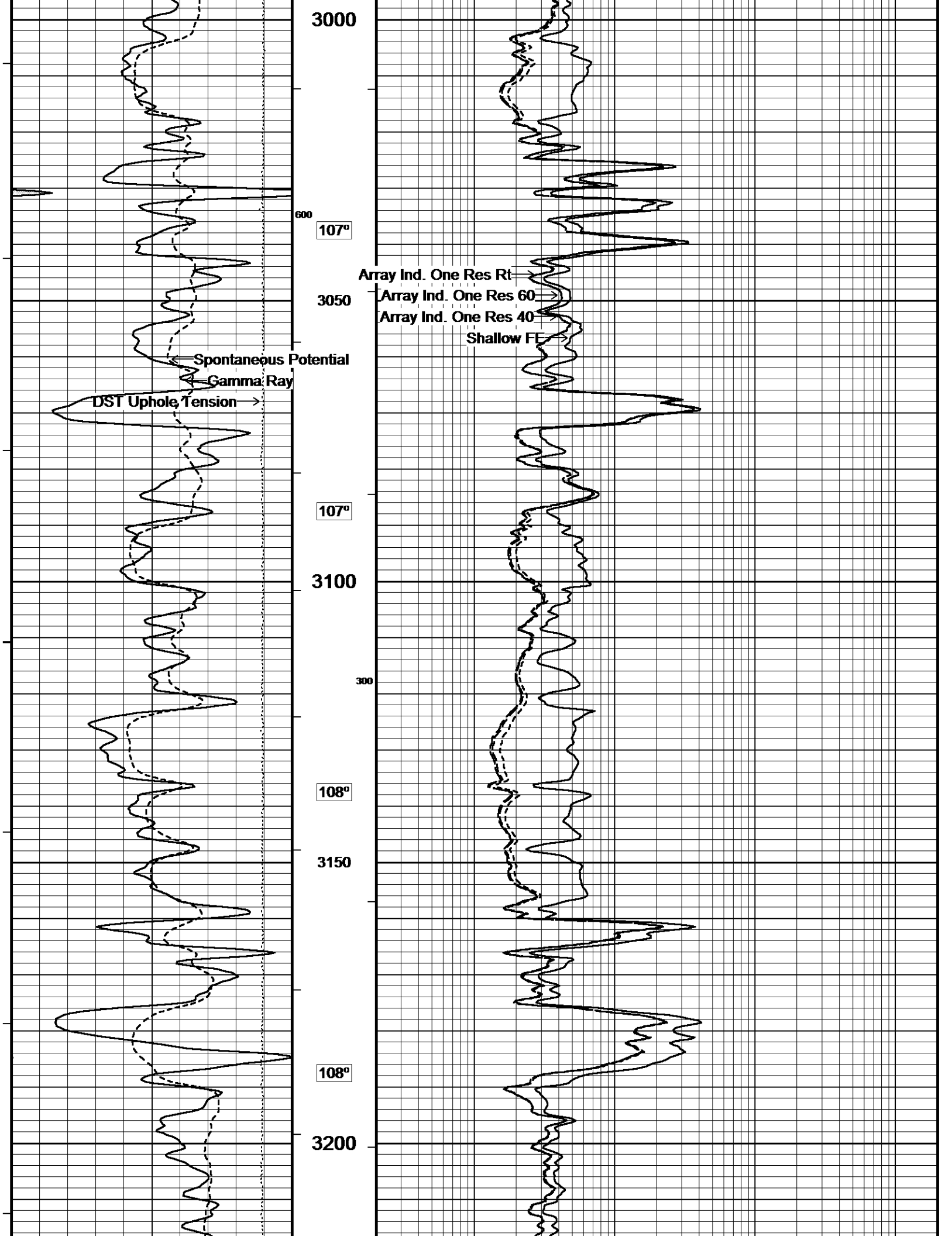


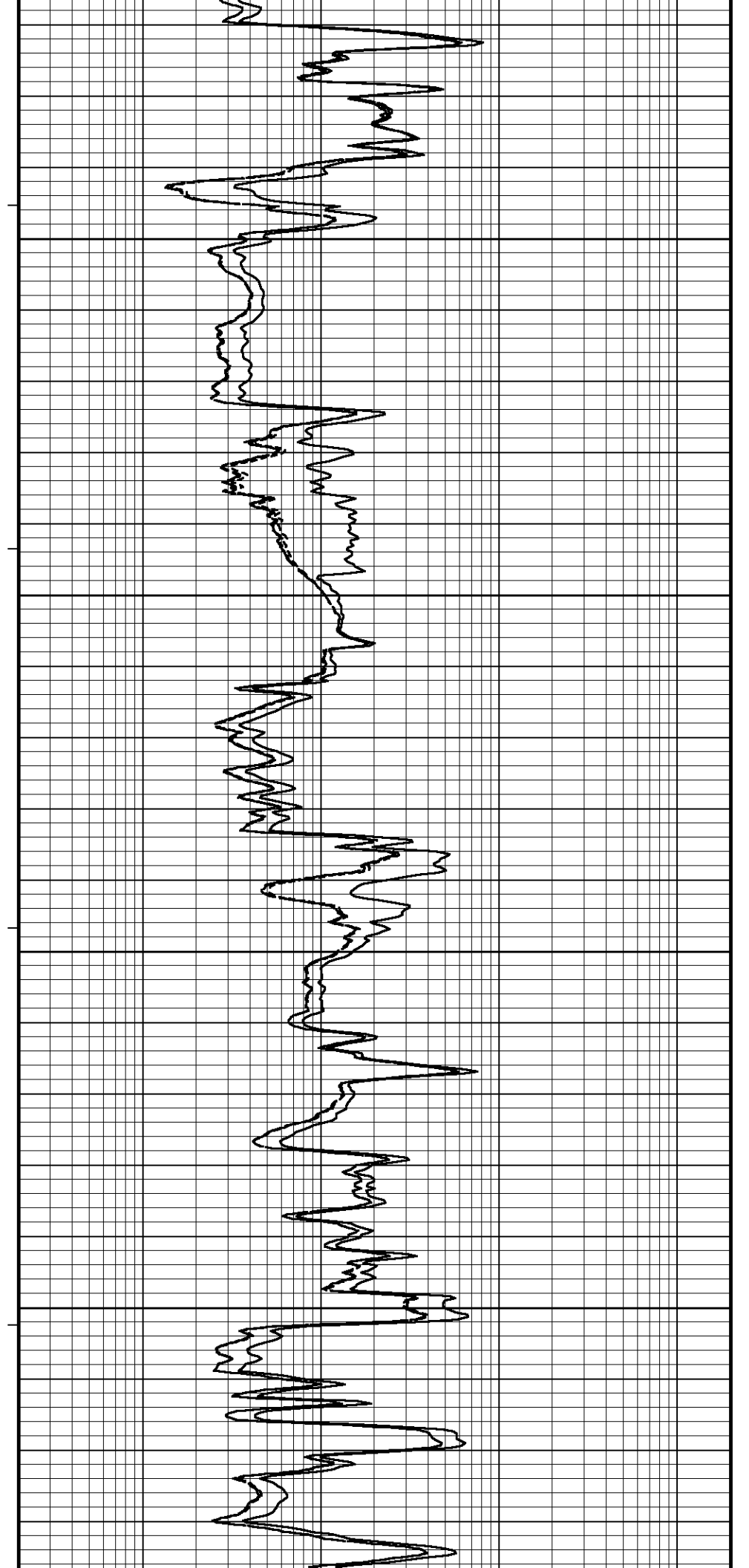
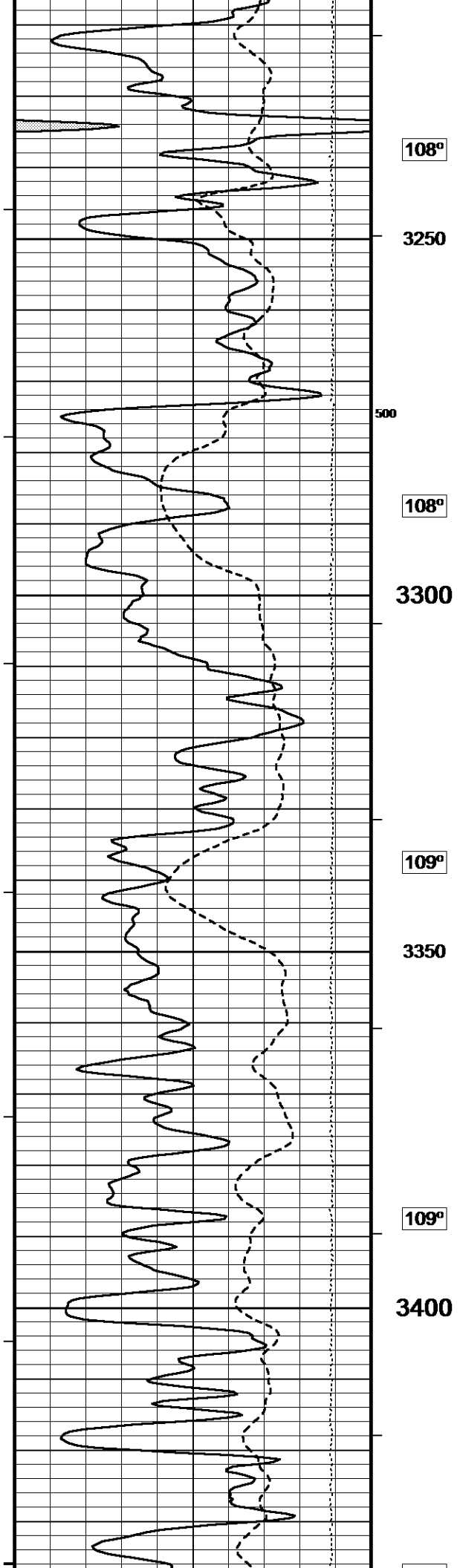


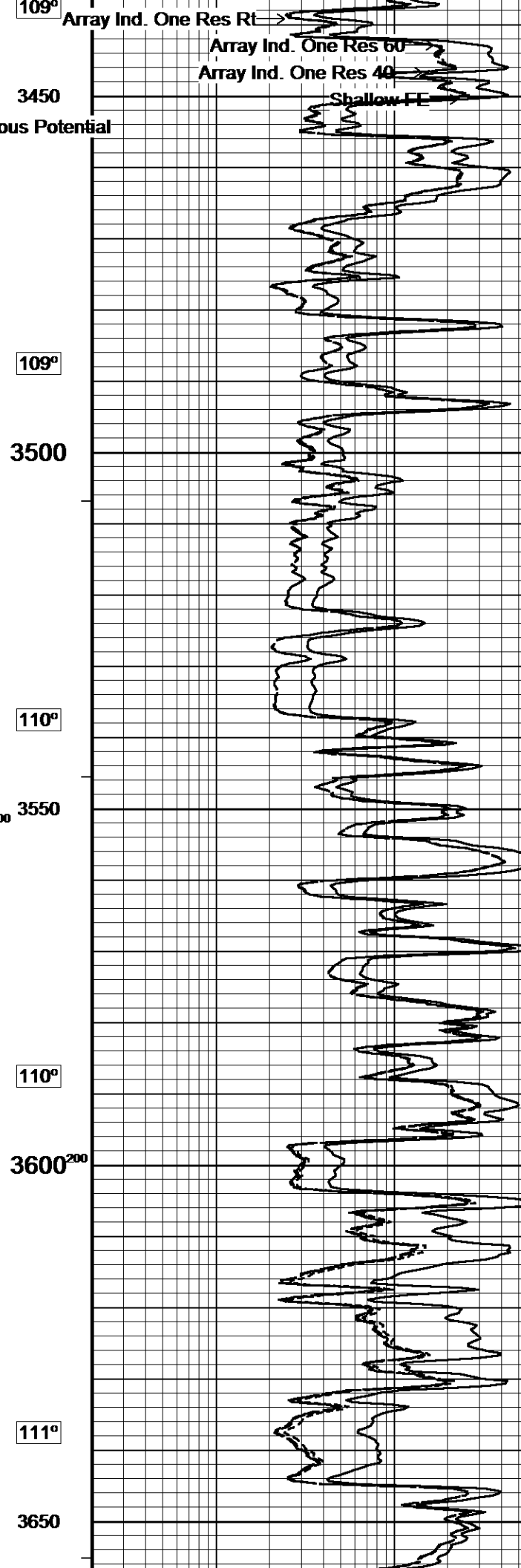
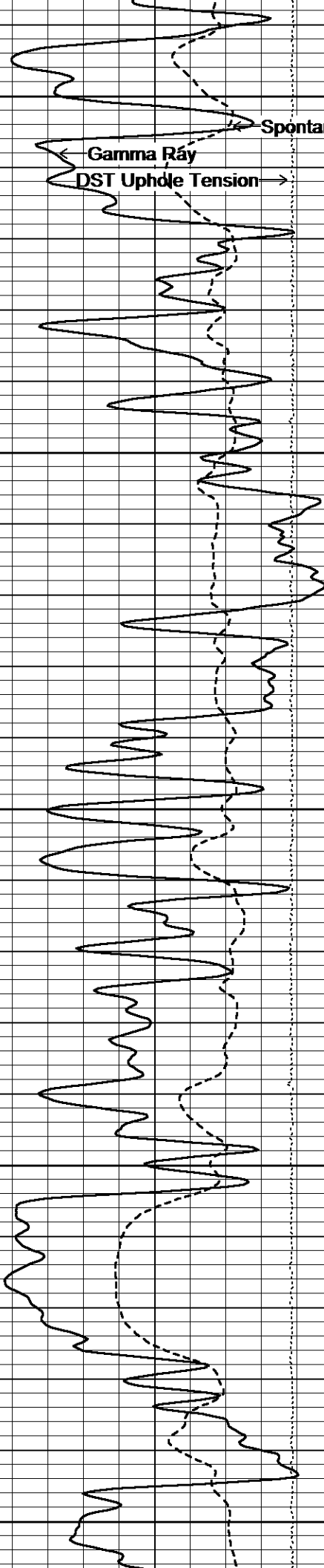






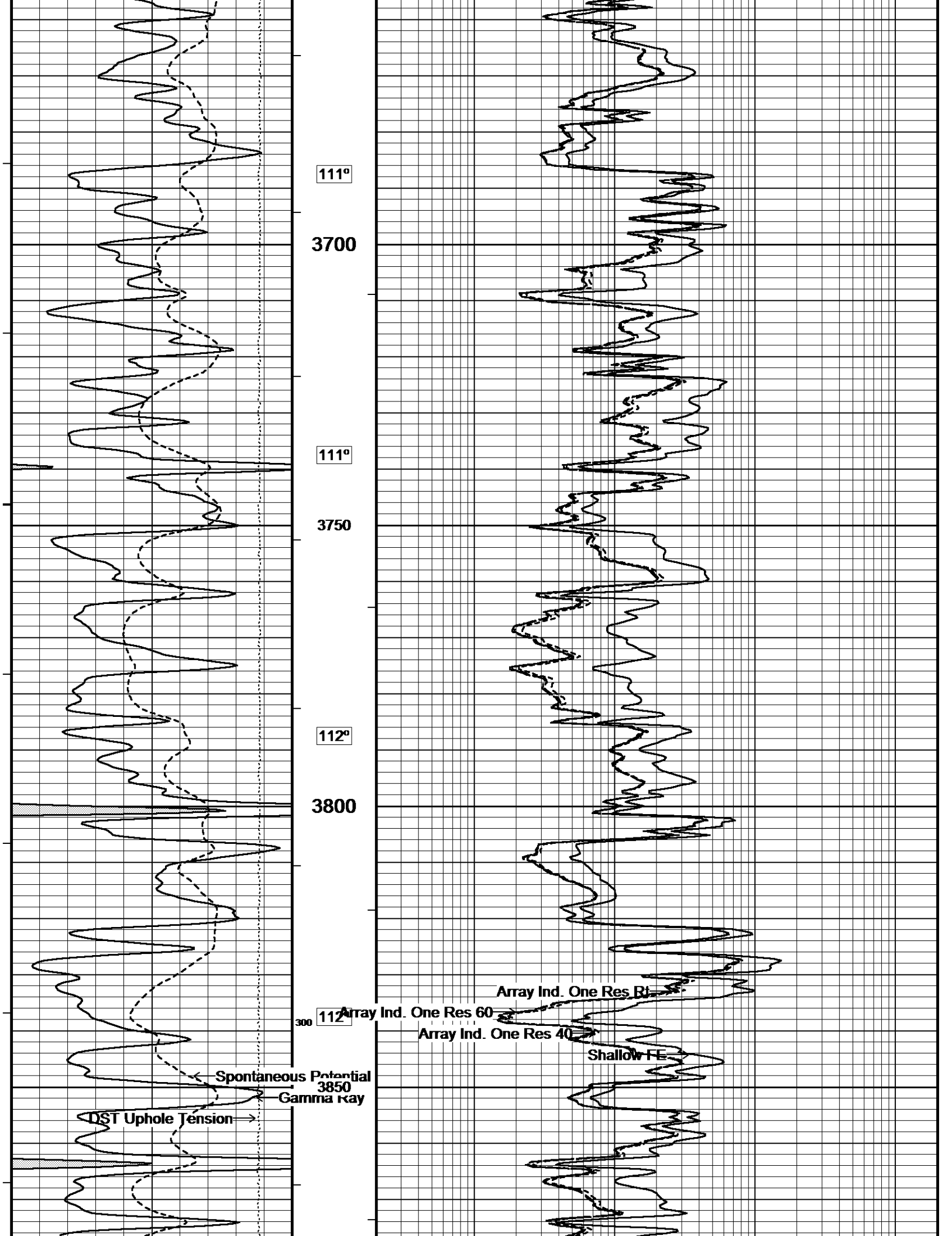


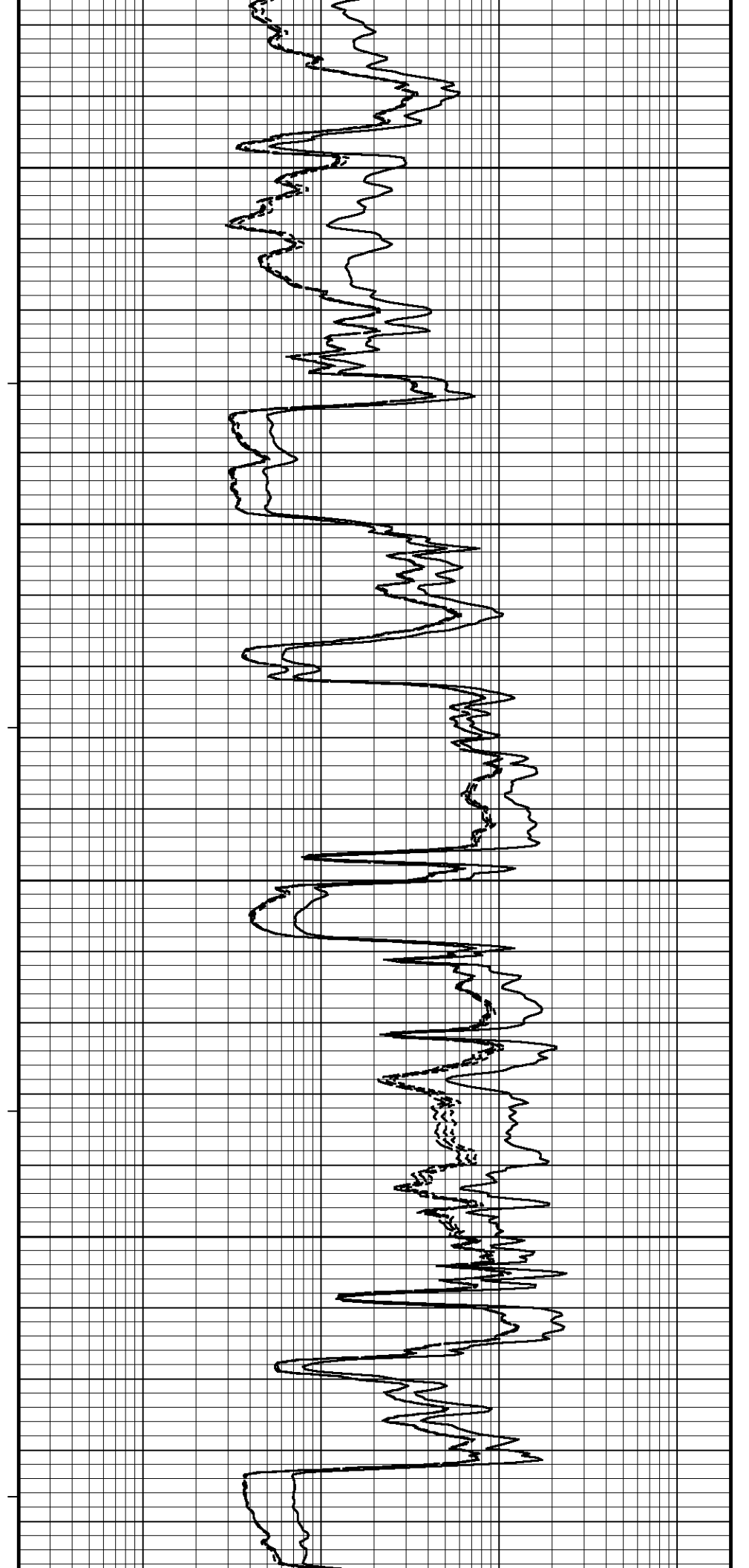
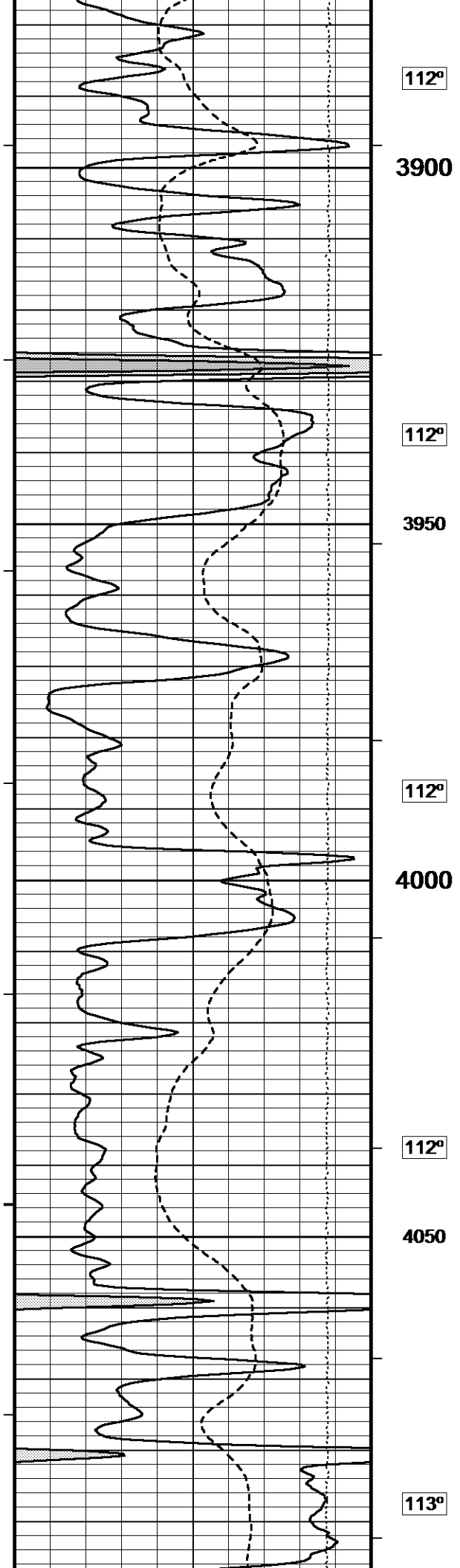


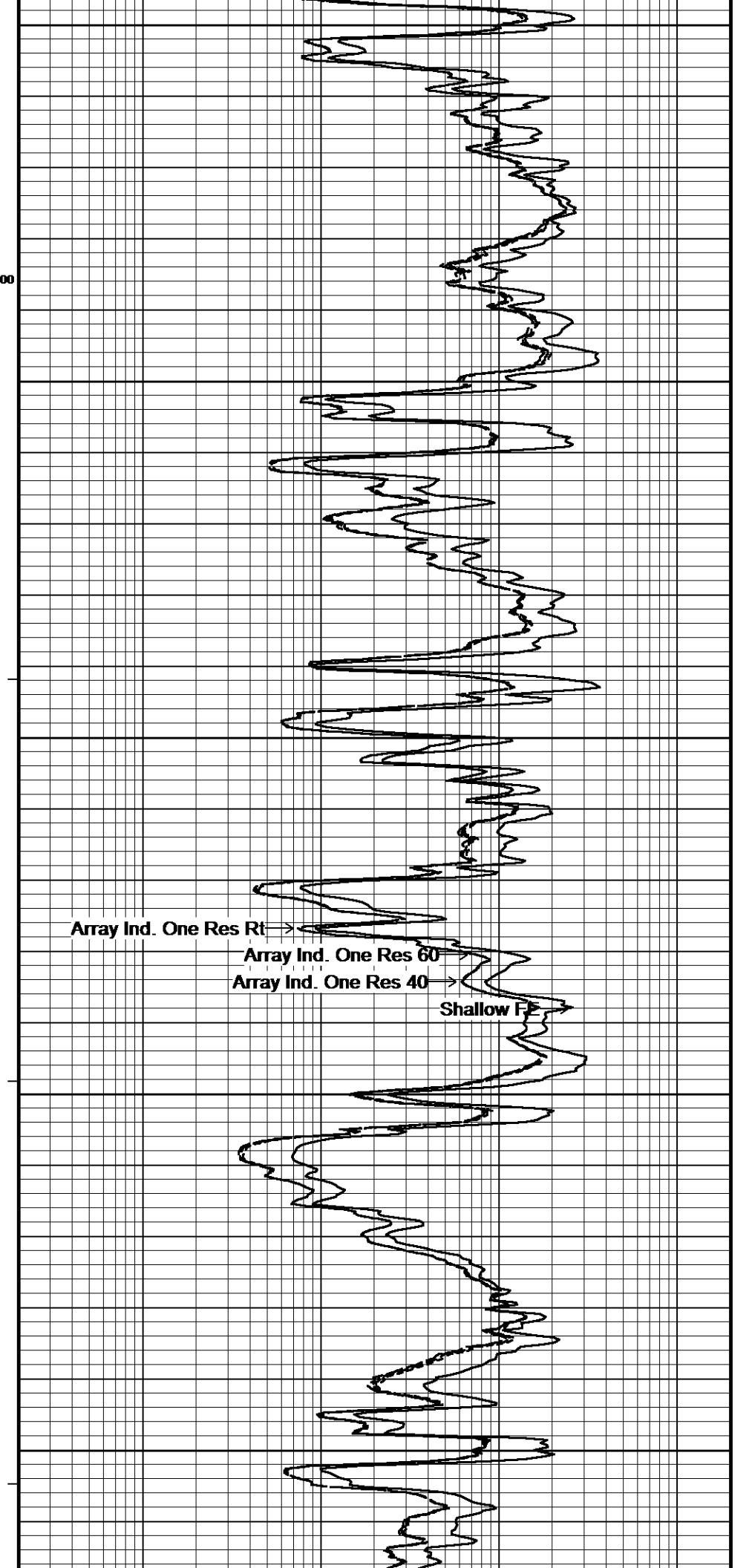
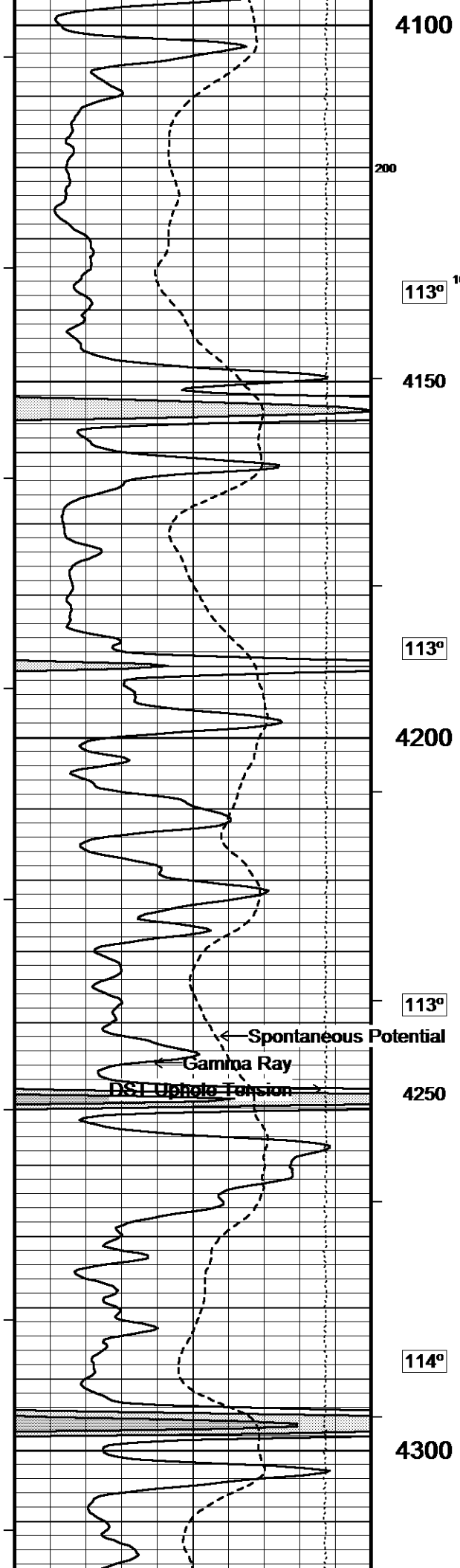


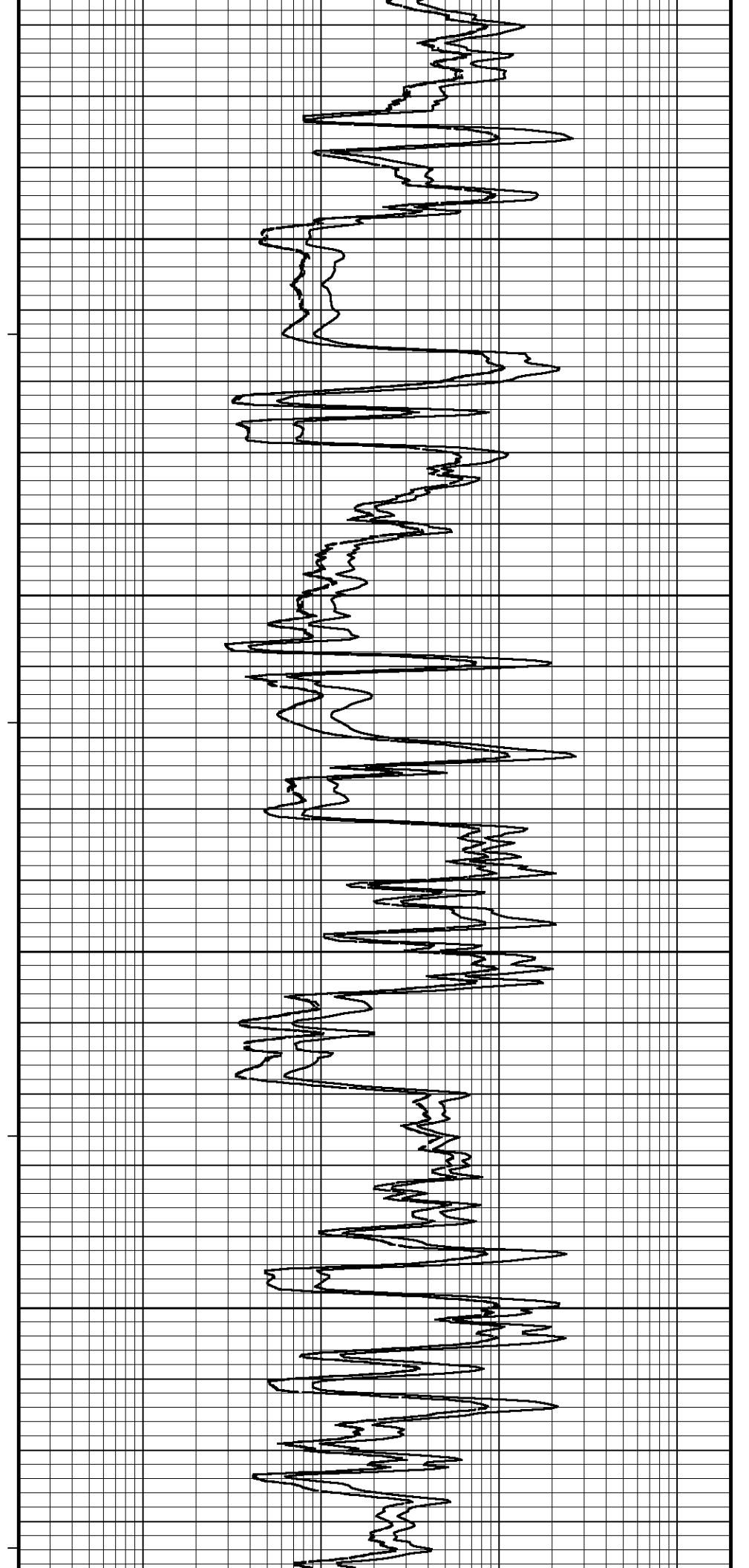
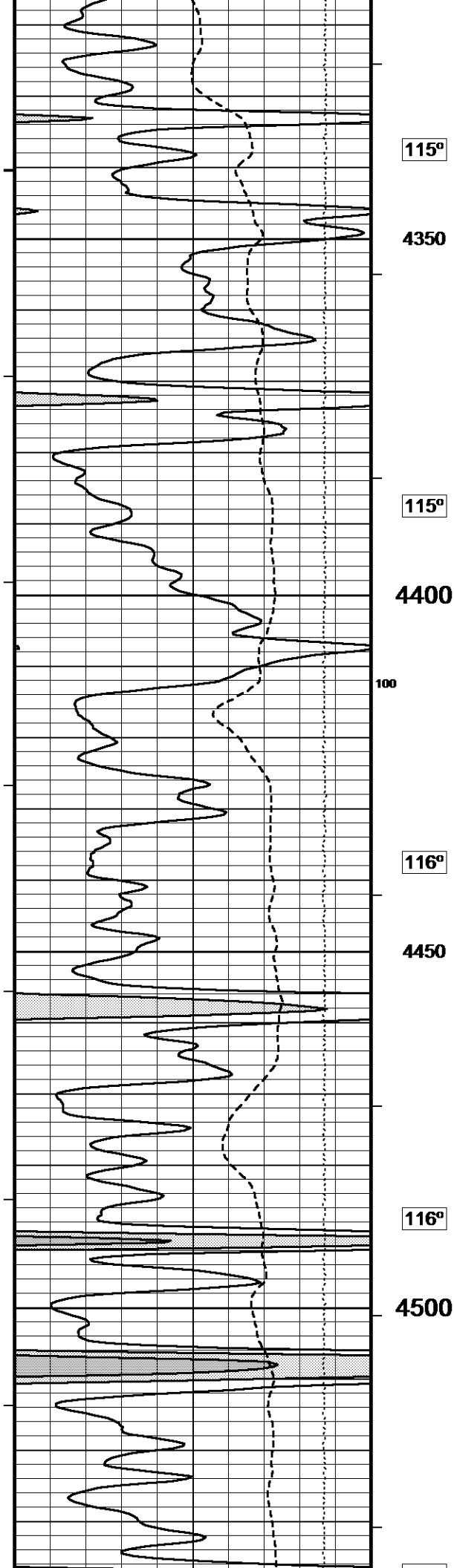
109°
3450
109°
3500
110°
3550
110°
3600²⁰⁰
111°
3650

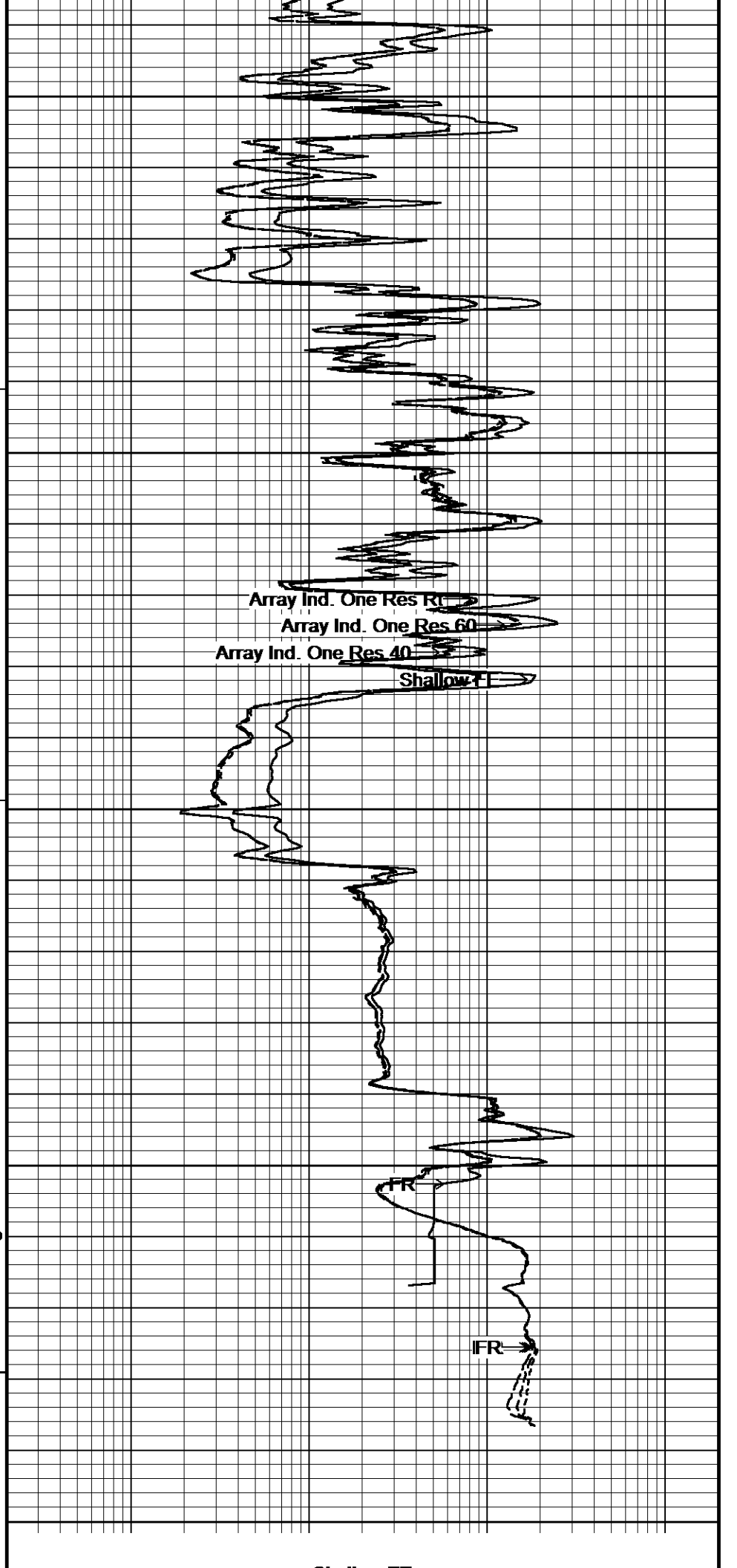
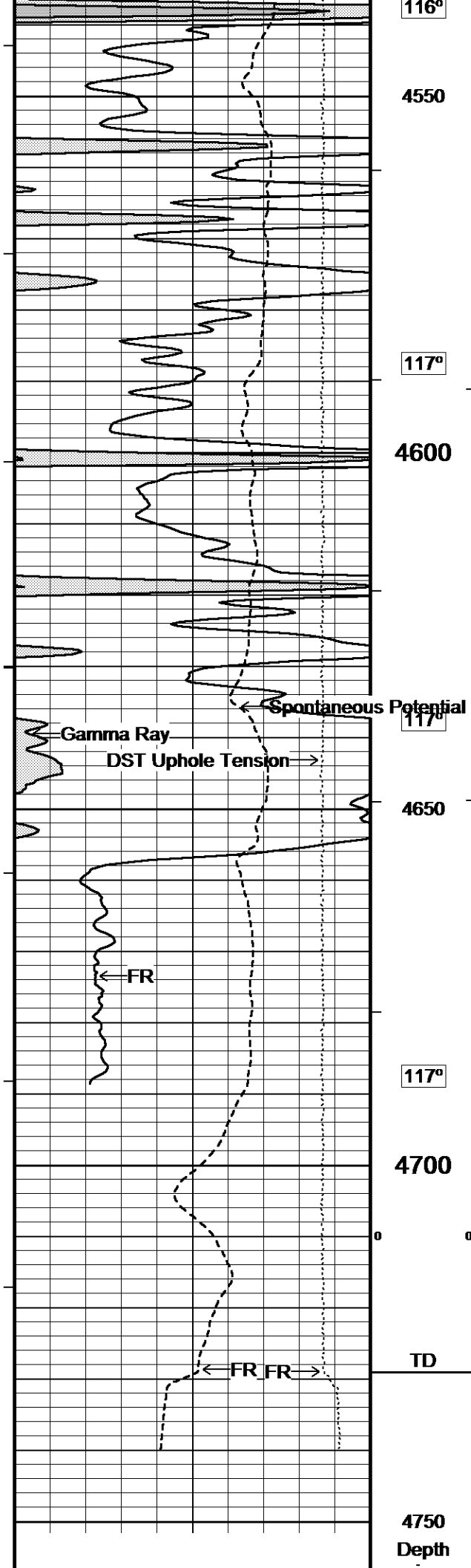
Array Ind. One Res Rt
Array Ind. One Res 60
Array Ind. One Res 40
Shallow FE
Spontaneous Potential
Gamma Ray
DST Uphole Tension

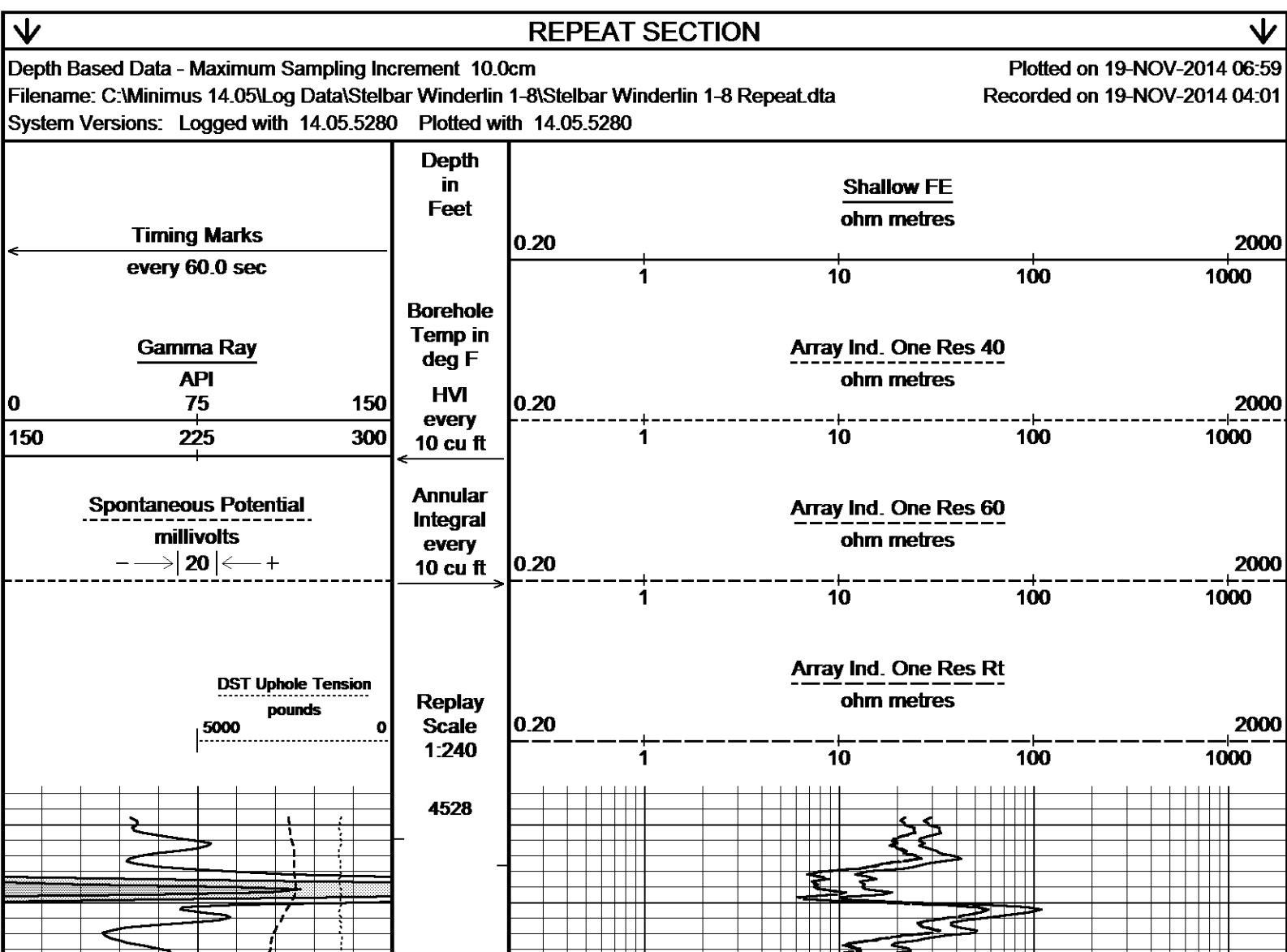
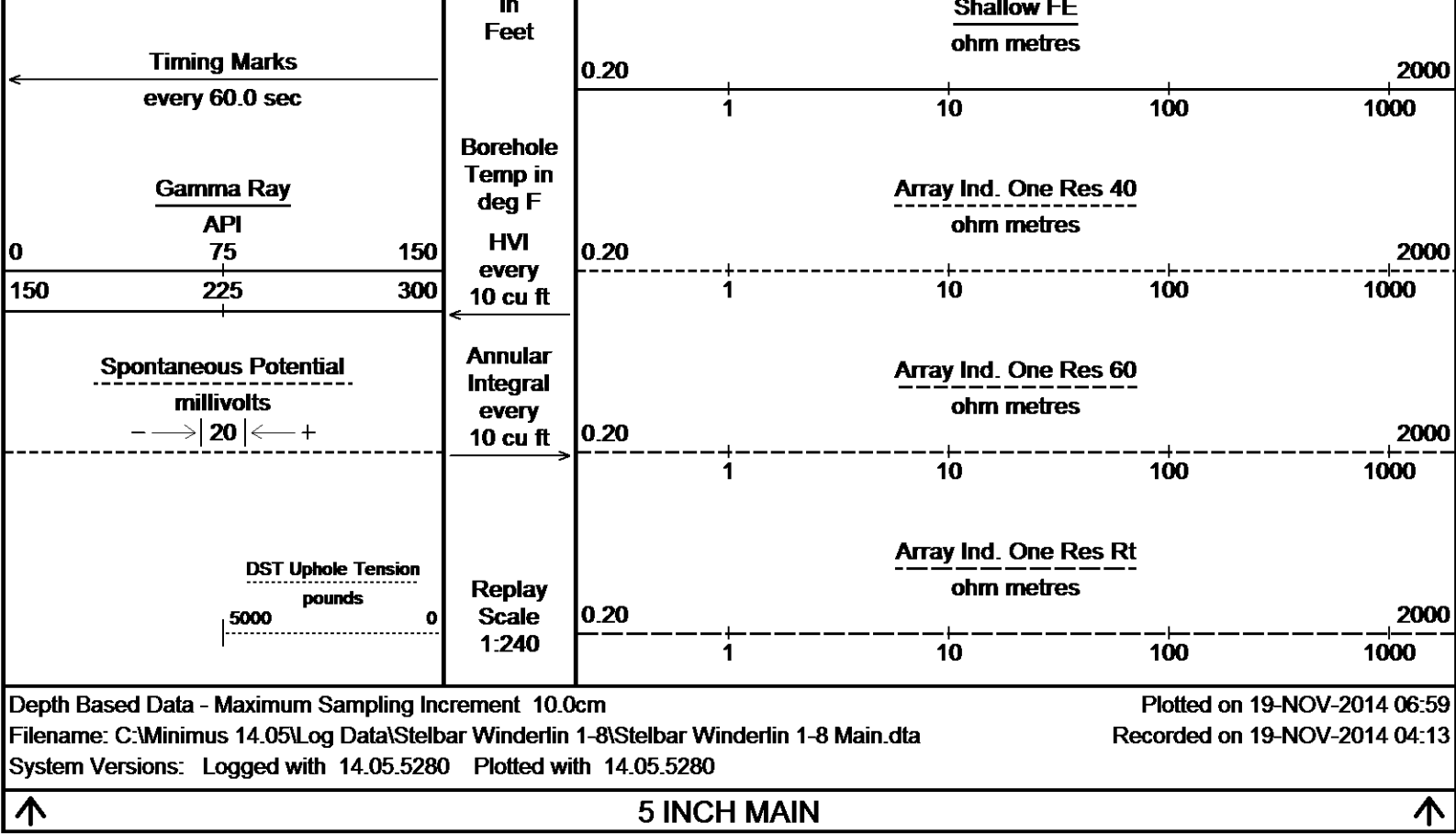


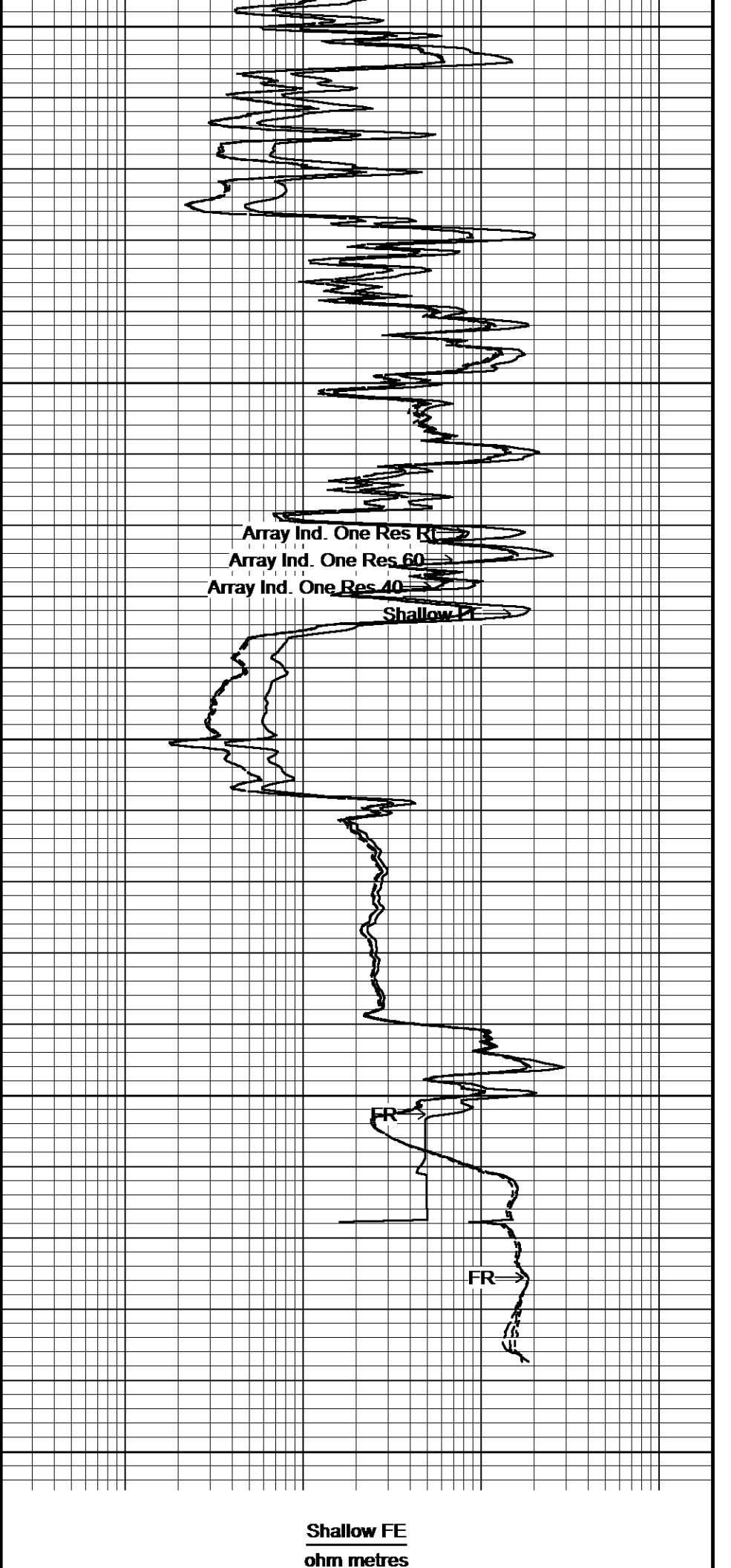
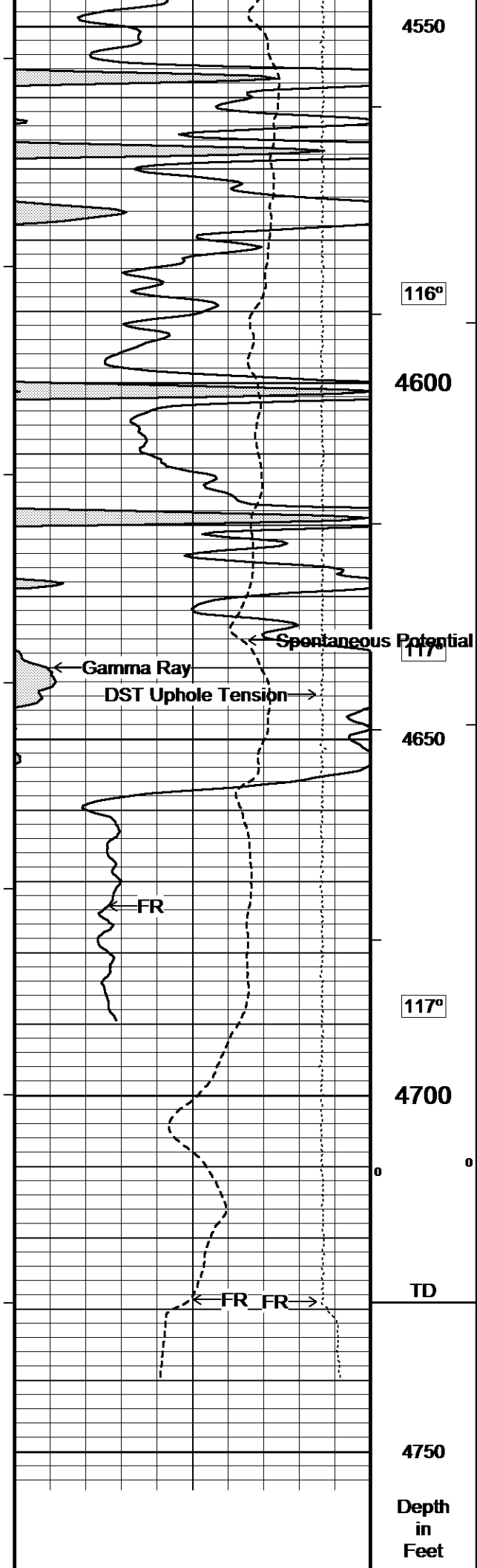


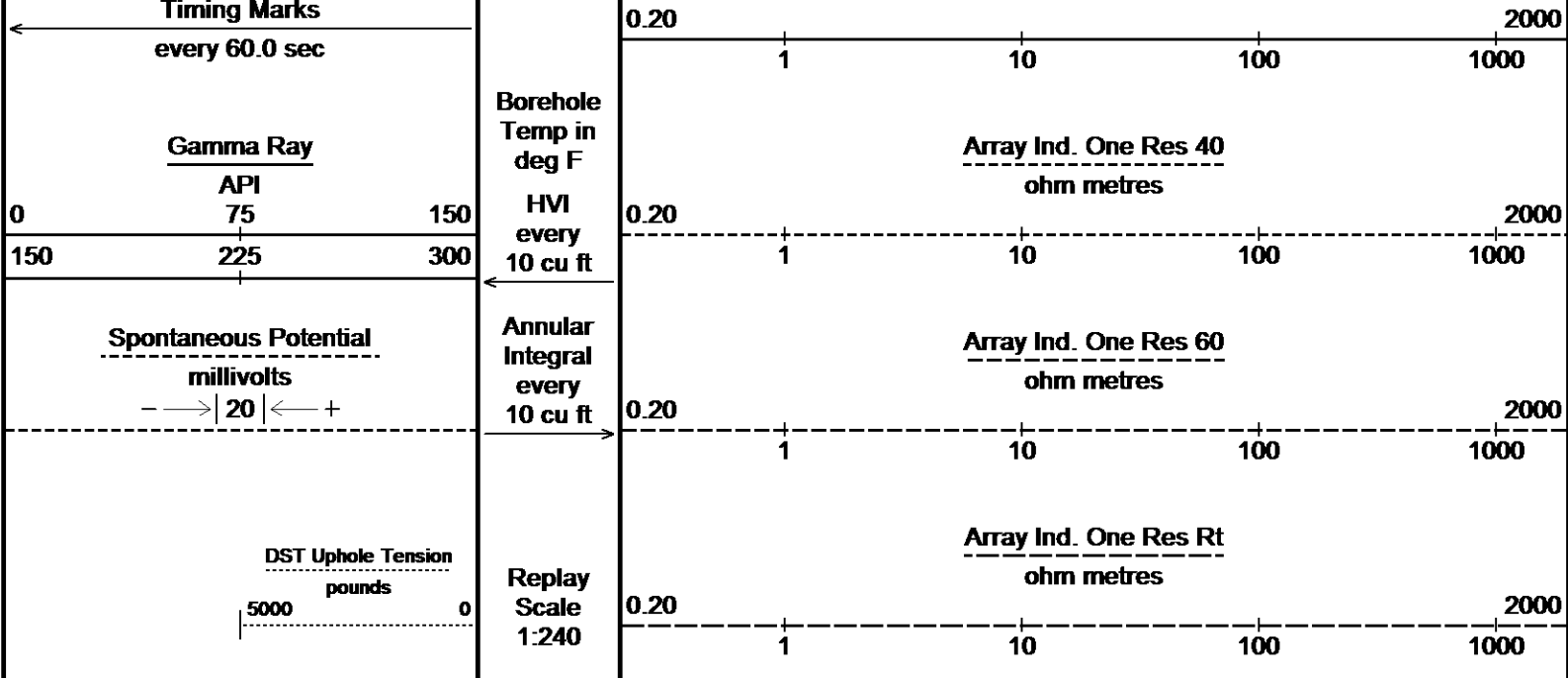












Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 19-NOV-2014 06:59
 Filename: C:\Minimus 14.05\Log Data\Stelbar Winderlin 1-8\Stelbar Winderlin 1-8 Repeat.dta
 Recorded on 19-NOV-2014 04:01
 System Versions: Logged with 14.05.5280 Plotted with 14.05.5280

↑ REPEAT SECTION ↑

BEFORE SURVEY CALIBRATION
 C:\Minimus 14.05\Log Data\Stelbar Winderlin 1-8\Stelbar Winderlin 1-8 Main.dta

General Constants All 000 Last Edited on 19-NOV-2014,03:35

General Parameters		
Mud Resistivity	0.950	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	Density Caliper	
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	

Down-hole Tension Calibration SMS 0 Field Calibration on 19-NOV-2014 03:12

Reading No	Measured	Calibrated (lbs)
1	14313.79	0.00
2	15256.53	446.00

High Resolution Temperature Calibration MCG-B 39 Field Calibration on 18-NOV-2014,10:02

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

High Resolution Temperature Constants MCG-B 39 Last Edited on 28-AUG-2014,01:02

Pre-filter Length 11

SP Calibration MCG B 39

	Measured	Calibrated (mV)
Reference 1	102.6	99.9
Reference 2	-97.9	-100.0

Gamma Calibration MCG-B 39

	Measured	Calibrated (API)
Background	71	48
Calibrator (Gross)	1141	773
Calibrator (Net)	1069	725

Gamma Calibration Tolerances MCG-B 39

Ratio	1.475	<input type="text" value="1.40"/>	<input type="text" value="1.475"/>	<input type="text" value="1.55"/>	Counts/API
-------	-------	-----------------------------------	------------------------------------	-----------------------------------	------------

Gamma Constants MCG-B 39

Gamma Calibrator Number	GRC038		
GRC-M Calibrator Jig in Use?	NO		
Inactive Background Jig in Use?	NO		
Mud Density	1.12	gm/cc	
Caliper Source for Processing	Density Caliper		
Tool Position	Eccentred		
Concentration of KCl		kppm	
K Mud Type	Chloride		
K Mud Concentration	0.00	%	

Micro Normal and Micro Inverse Calibration MML-A 3

Base Calibration

Channel	Measured		Calibrated (ohm-m)	
	Resistor 1	Resistor 2	Resistor 1	Resistor 2
Micro Normal	10.0	49.9	5.1	25.6
Micro Inverse	10.0	49.9	3.4	16.9

Channel	Base Check (ohm-m)	Field Check (ohm-m)
Micro Normal	77.4	77.4
Micro Inverse	51.3	51.3

Micro Normal & Micro Inverse Calibration Tolerance MML-A 3

Micro Normal Res. 1	10.0	<input type="text" value="10.0"/>	ohm	Micro Normal Res. 2	49.9	<input type="text" value="49.9"/>	ohm
Micro Inverse Res. 1	10.0	<input type="text" value="10.0"/>	ohm	Micro Inverse Res. 2	49.9	<input type="text" value="49.9"/>	ohm
Micro Normal Base Check	77.4	<input type="text" value="77.4"/>	ohm-m				
Micro Inverse Base Check	51.3	<input type="text" value="51.3"/>	ohm-m				
Micro Normal Field Check	77.4	<input type="text" value="77.4"/>	ohm-m				
Micro Inverse Field Check	51.3	<input type="text" value="51.3"/>	ohm-m				

Micro Normal and Micro Inverse Constants MML-A 3

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 3

Base Calibration


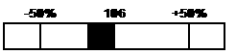
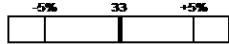


Reading No	Measured	Calibrator Size (in)
1	15153	5.98
2	18429	7.97
3	21713	9.86
4	25537	11.92
5	0	0.00
6	N/A	N/A

Field Calibration

Field Calibration	Measured Caliper (in) 8.00	Actual Caliper (in) 7.97
-------------------	-------------------------------	-----------------------------



Caliper Calibration Tolerances MML-A 3		
Short Arm Field Cal.	8.00	 in

Neutron Calibration MDN-A.B 152		Base Calibration on 24-OCT-2014 12:40 Field Check on 18-NOV-2014 10:25		
Base Calibration				
	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	2866	87	3714	110
Ratio	33.093		33.764	
Field Calibrator at Base			Calibrated (cps)	
			1779	2659
Ratio			0.669	
Field Check			Calibrated (cps)	
			1772	2646
Ratio			0.670	

Neutron Calibration Tolerances MDN-A.B 152							
Near Reading	2866		cps	Far Reading	87		cps
Ratio	33.093						
Base Check	0.669						
Field Check	0.670						

Neutron Constants MDN-A.B 152		Last Edited on 19-NOV-2014,01:52	
Neutron Source Id	P0204NN		
Neutron Jig Number	5824NE		
Air Hole Processing	Legacy		
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	
Salinity Correction	Not Applied		
Formation Fluid Salinity Source	None		
Formation Fluid Salinity	N/A	kppm	
Barite Mud Correction	Not Applied		

FE Calibration MFE-B.J 353		Base Calibration on 24-OCT-2014 15:33 Field Check on 18-NOV-2014 09:38	
Base Calibration			
	Measured	Calibrated (ohm-m)	
Reference 1	0.0	0.0	
Reference 2	964.2	126.8	
Base Check		281.0	
Field Check		281.0	

FE Calibration Tolerances MFE-B.J 353			
Reference 2	964.2		ohm
Base Check	281.0		ohm-m

Field Check

281.0

-2%	281.8	+2%
-----	-------	-----

ohm-m

FE Constants MFE-B.J 353

Last Edited on 19-NOV-2014,01:52

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 Value: Temperature Corrected
 Temp. for Rm Corr. MCG External Temperature
 Stand-off 0.5 inches

Sonic Constants MSS-A.A 126

Last Edited on 19-NOV-2014,01:52

Maximum Boundary Contrast 100.00 micro-sec/ft
 Fluid Transit Time 189.00 micro-sec/ft
 Limestone Transit Time 47.50 micro-sec/ft
 Sandstone Transit Time 55.50 micro-sec/ft
 Dolomite Transit Time 43.50 micro-sec/ft
 Sonic used for Porosities 3-5' Compensated Sonic
 Correction for Sonde Skew Applied
 Cycle Stretch Algorithm Applied
 MN3FT N/A micro-sec
 MX3FT N/A micro-sec
 Hunt-Raymer Constant 83.13 micro-sec/ft

Sonde Mode Compensated
 Hole Type Open Hole

Sonde Parameters

	Measured	Calibrated
Offset	N/A	0.0000
Free Pipe	N/A	N/A
Peak Amplitude Source		N/A

Waveform	Start Time (micro-sec)	Width (micro-sec)	Pre Gain	Start Gain	Discriminator (mV)
3'	N/A	N/A	N/A	N/A	N/A
4'	N/A	N/A	N/A	N/A	N/A
5'	N/A	N/A	N/A	N/A	N/A
6'	N/A	N/A	N/A	N/A	N/A

Processed Fixed Gate Parameters

Waveform Used For Processing	N/A			
Start Time (micro-sec)	End Time (micro-sec)	Discriminator (mV)	N/A	
N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A

Full Waveform Parameters

Use 3' Waveform to derive TR N/A
 Use 4' Waveform to derive TR N/A
 Use 5' Waveform to derive TR N/A
 Use 6' Waveform to derive TR N/A
 3' Waveform Discriminator Level N/A mV
 4' Waveform Discriminator Level N/A mV
 5' Waveform Discriminator Level N/A mV
 6' Waveform Discriminator Level N/A mV
 3' Waveform Filter N/A
 4' Waveform Filter N/A
 5' Waveform Filter N/A
 6' Waveform Filter N/A

Semblance Level N/A
 Semblance Window Width N/A micro-sec
 Sonic 1 Despiker N/A N/A
 Sonic 2 Despiker N/A N/A

High Resolution Temperature Calibration MAI-A.A 111

Field Calibration on 18-NOV-2014,09:35

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

High Resolution Temperature Constants MAI-A.A 111

Last Edited on 26-JUN-2014,15:06

Pre-filter Length 11

Induction Calibration MAI-A.A 111

Base Calibration on 05-AUG-2014,09:34
Field Check on 18-NOV-2014 09:34

Base Calibration		Measured		Calibrated (mmho/m)	
Test Loop Calibration	Channel	Low	High	Low	High
	1	17.6	473.6	9.3	966.2
	2	6.4	385.9	7.6	821.4
	3	3.2	264.0	5.2	566.0
	4	2.1	135.5	2.6	279.2
Array Temperature		23.0		Deg F	

Test Loop Calibration Verified

Channel	Base Check (mmho/m)		Field Check (mmho/m)		
	Low	High	Low	High	
1	0.0	0.0	11.9	3873.2	
2	0.0	0.0	29.7	3527.5	
3	0.0	0.0	29.1	3020.4	
4	0.0	0.0	19.1	2057.7	
Deep			17.7	1961.2	
Medium			43.1	3975.4	
Shallow			44.3	5232.3	
Array Temperature		0.0		61.6 Deg F	

Induction Calibration Tolerances MAI-A.A 111

Low Conductivity 1	17.6		mmho/m	High Conductivity 1	473.6		mmho/m
Low Conductivity 2	6.4		mmho/m	High Conductivity 2	385.9		mmho/m
Low Conductivity 3	3.2		mmho/m	High Conductivity 3	264.0		mmho/m
Low Conductivity 4	2.1		mmho/m	High Conductivity 4	135.5		mmho/m
Background Vx 1	0.0		mmho/m	Phase Check Loop 1	0.0		%
Background Vx 2	0.0		mmho/m	Phase Check Loop 2	0.0		%
Background Vx 3	0.0		mmho/m	Phase Check Loop 3	0.0		%
Background Vx 4	0.0		mmho/m	Phase Check Loop 4	0.0		%

Induction Constants MAI-A.A 111

Last Edited on 19-NOV-2014,01:52

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 Global Value:	Temperature Corrected	
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

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-C.A 216

Base Calibration on 24-OCT-2014 11:23
Field Calibration on 18-NOV-2014 10:02

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	18960	3.99
2	28807	5.98
3	38852	7.97
4	48518	9.86
5	59792	11.92
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
7.96	7.97

Caliper Calibration Tolerances MPD-C.A 216

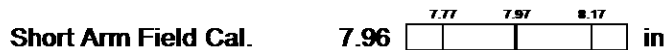


Photo Density Calibration MPD-C.A 216

Base Calibration on 24-OCT-2014 11:46
Field Check on 18-NOV-2014 09:46

Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Background	1094	1297		
Reference 1	59838	31173	59556	30836
Reference 2	24858	2730	24941	2541

Field Check at Base

1094.4	1296.6
--------	--------

Field Check

1093.5	1287.6
--------	--------

PE Calibration

Base Calibration	WS	Measured		Calibrated Ratio
		WH	Ratio	
Background	201	974		
Reference 1	25019	59646	0.423	0.371
Reference 2	7097	24723	0.290	0.272

Field Check at Base

201.2	973.6
-------	-------

Field Check

198.1	972.2
-------	-------

Photo Density Calibration Tolerances MPD-C.A 216



PE Calibration	0.124			
Near Den. Field Check	1093.5	-3%	1094.4	+3%
PE WS Field Check	198.1	-6%	201.2	+6%

Far Den. Field Check	1287.6	-3%	1296.6	+3%
PE WH Field Check	972.2	-6%	973.6	+6%

Density Constants MPD-C.A 216

Last Edited on 19-NOV-2014,01:52

Density Source Id	18235B	
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	1.00	gm/cc
Mud Density Z/A Multiplier	1.12	
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 (m)	
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:\Minimus 14.05\Log Data\Stelbar Winderlin 1-8\Stelbar Winderlin 1-8 Main.dta

3/8" Triple Cone Cable Head (MCB C A)
 MCB-C.A 233 LG: 1.58 ft WT: 15.4 lb OD: 2.240 in

Compact Comms Gamma
 MCG-B 39 LG: 8.70 ft WT: 63.9 lb OD: 2.244 in

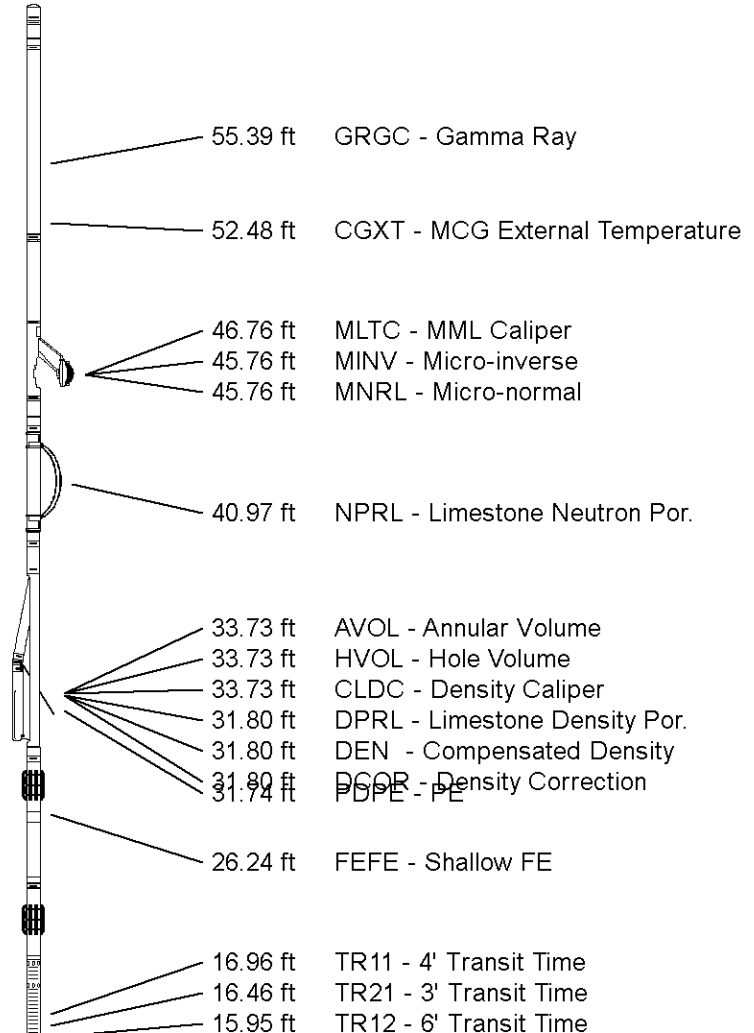
Compact Micro-log
 MML-A 3 LG: 7.97 ft WT: 81.6 lb OD: 2.240 in

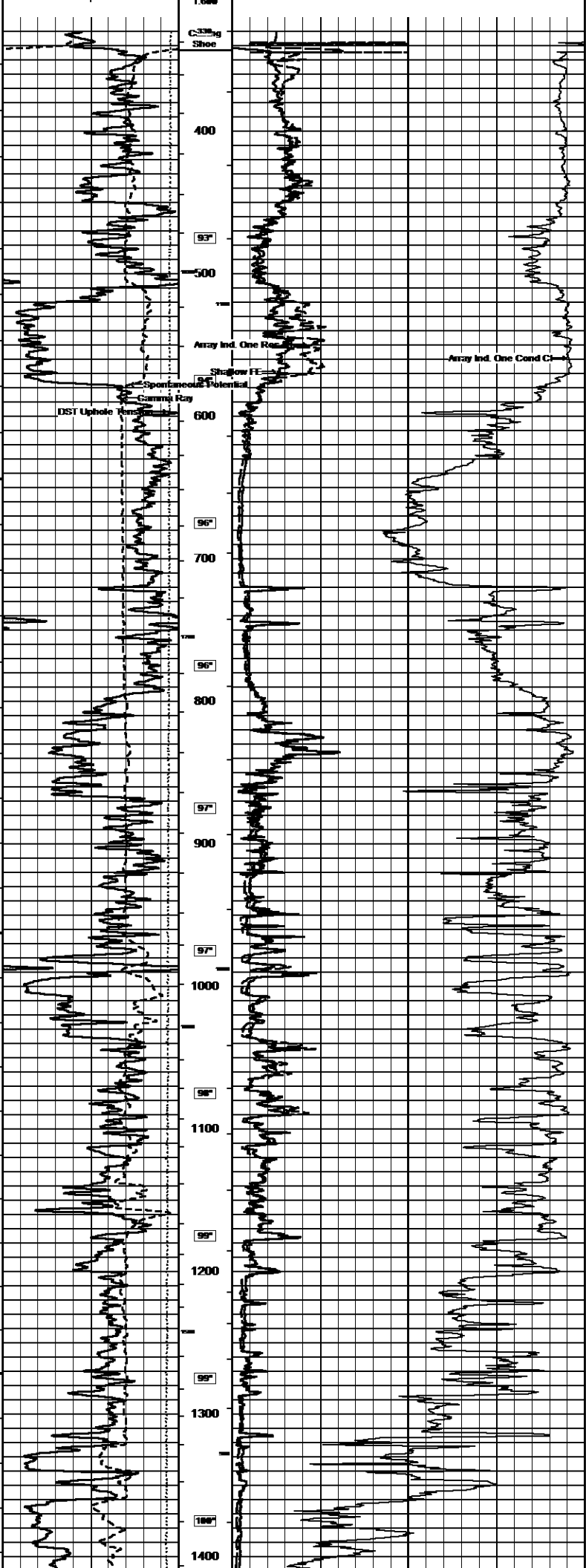
Compact Neutron
 MDN-A.B 152 LG: 5.04 ft WT: 50.7 lb OD: 2.244 in

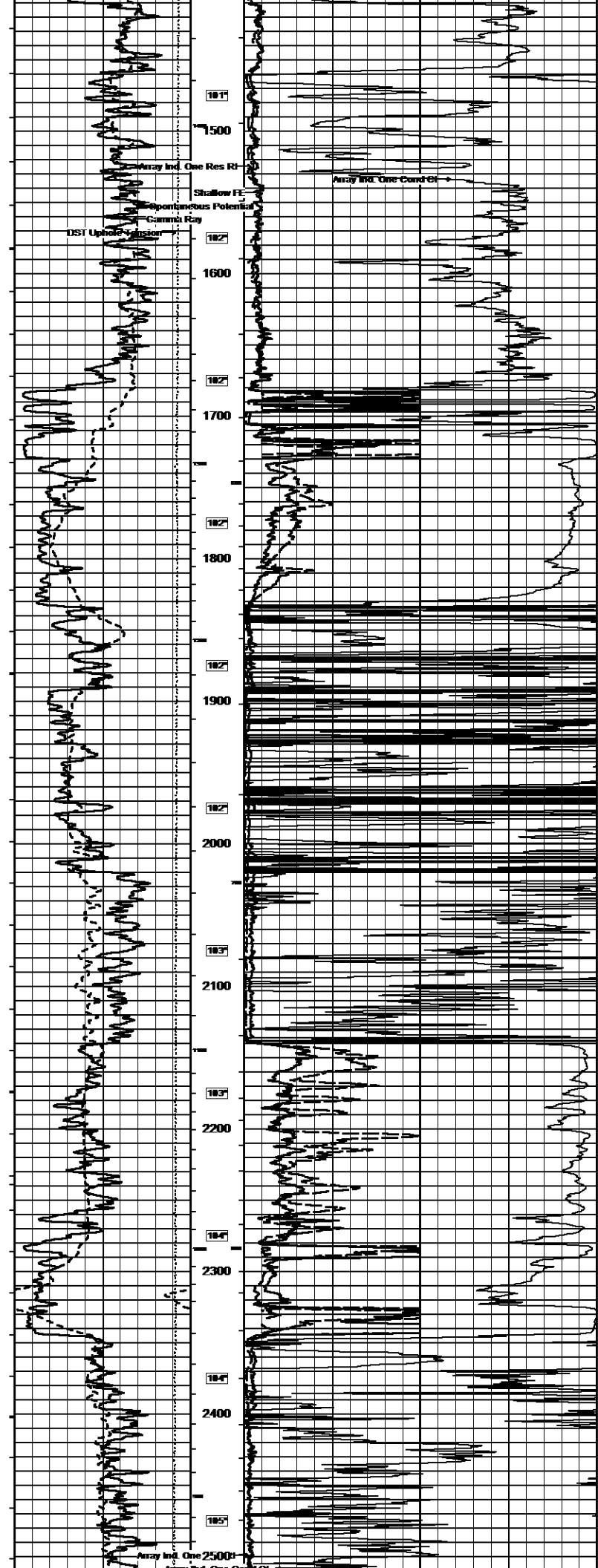
Compact Density/Caliper
 MPD-C.A 216 LG: 9.59 ft WT: 90.4 lb OD: 2.449 in

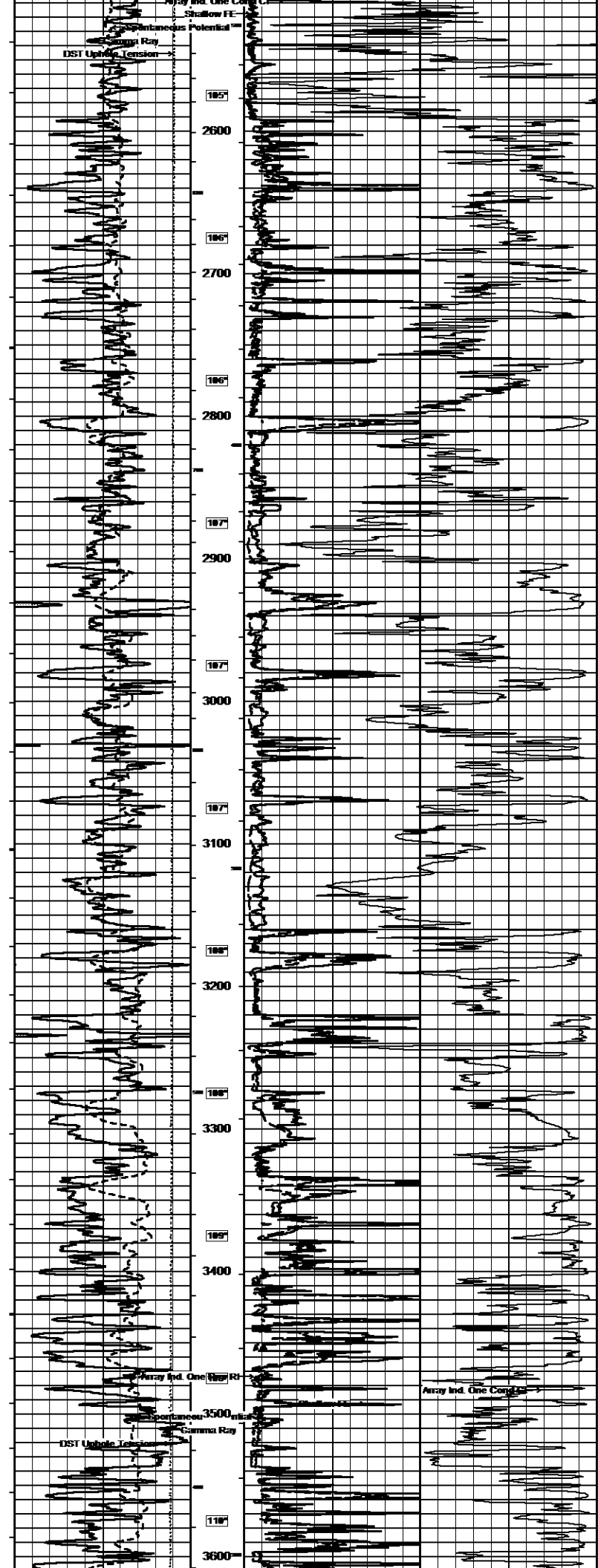
Compact Focussed Electric
 MFE-B.J 353 LG: 6.05 ft WT: 48.5 lb OD: 2.244 in

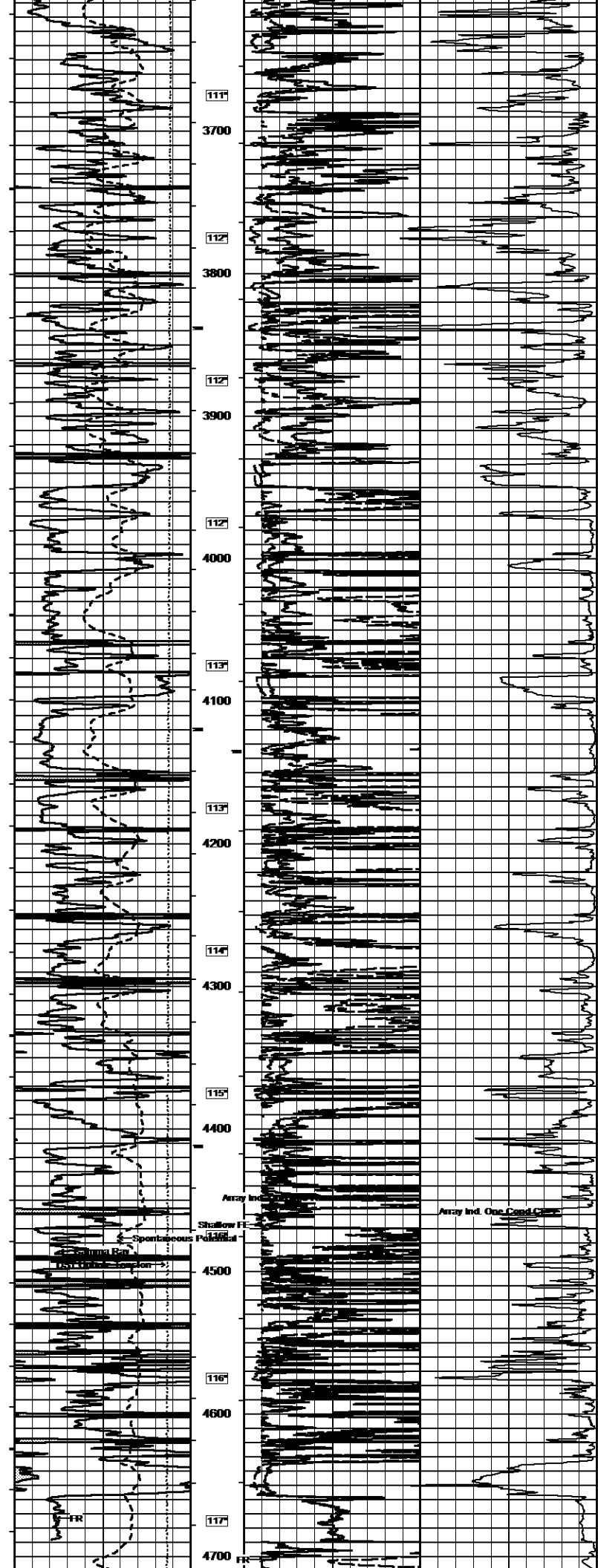
Compact Sonic
 MSS-A.A 126 LG: 12.52 ft WT: 72.8 lb OD: 2.244 in

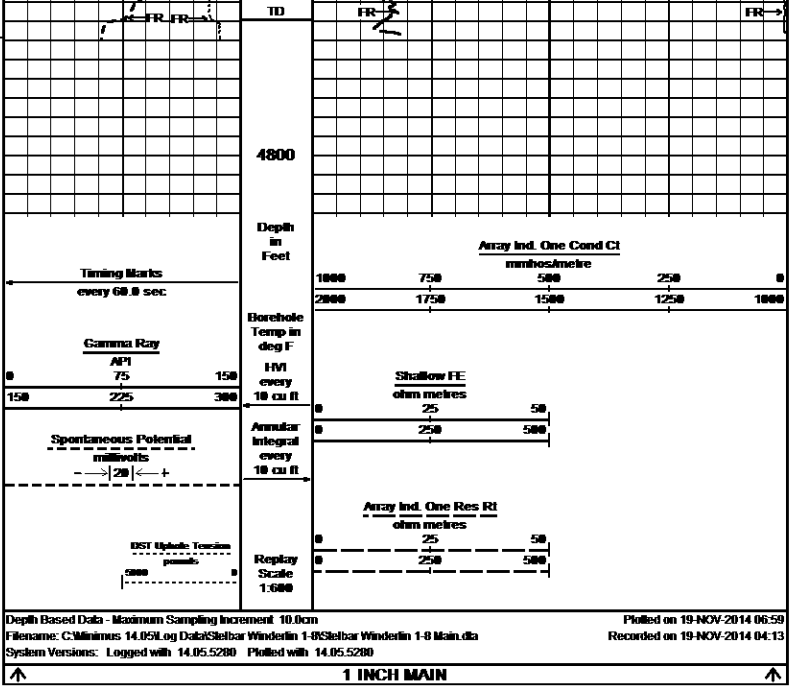













COMPANY	STELBAR OIL CORPORATION, INC.				
WELL	WINDERLIN 1-8				
FIELD	WILDCAT				
PROVINCE/COUNTY	SCOTT				
COUNTRY/STATE	U.S.A. / KANSAS				
Elevation Kelly Dushing	2901.00	feet	First Reading	4725.66	feet
Elevation Drill Floor	2979.00	feet	Depth Diller	4726.00	feet
Elevation Ground Level	2976.00	feet	Depth Logger	4729.00	feet



ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG