



Weatherford[®]

**ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG**

COMPANY **SHAKESPEARE OIL COMPANY, INC.**
 WELL **PETERSON #2-8**
 FIELD **STRATFORD WEST**
 PROVINCE/COUNTY **LOGAN**
 COUNTRY/STATE **U.S.A. / KANSAS**
 LOCATION **850' FSL & 1750' FWL SW/4
SE NW SE SW**

SEC	TWP	RGE	Other Services	Elevations:
8	13S	32W	MPD/MDN	KB 2981.00
API Number	15-109-21095	MML		DF 2979.00
Permit Number				GL 2971.00
Permanent Datum G.L., Elevation 2971 feet				
Log Measured From KB				
Drilling Measured From K.B. @ 10 FEET				
Date	23-SEP-2012			
Run Number	ONE			
Depth Driller	4680.00	feet		
Depth Logger	4685.00	feet		
First Reading	4682.00	feet		
Last Reading	222.00	feet		
Casing Driller	226.00	feet		
Casing Logger	222.00	feet		
Bit Size	7.875	inches		
Hole Fluid Type	CHEMICAL			
Density / Viscosity	9.20	lb/USg	48.00	CP
PH / Fluid Loss	11.00		6.40	ml/30Min
Sample Source	FLOWLINE			
Rm @ Measured Temp	1.14 @ 93.0	ohm-m		
Rmf @ Measured Temp	0.91 @ 93.0	ohm-m		
Rmc @ Measured Temp	1.37 @ 93.0	ohm-m		
Source Rmf / Rmc	CALC	CALC		
Rm @ BHT	0.92 @ 115.0	ohm-m		
Time Since Circulation	3 HOURS			
Max Recorded Temp	115.00	deg F		
Equipment Name	COMPACT			
Equipment / Base	13057	LIB		
Recorded By	R. HOFFMAN			
Witnessed By	STEVE DAVIS			
S.O. / JOB#	3538923			LB12-255

BOREHOLE RECORD			Last Edited: 23-SEP-2012 07:26
Bit Size inches	Depth From feet	Depth To feet	
7.875	222.00	4685.00	

CASING RECORD				
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	8.625	0.00	222.00	24.00

REMARKS

Tools Ran: MCG, MML, MDN, MPD, MFE, MAI.
 Hardware Used: MDN Dual Eccentralizer used. MPD 8 inch profile plate used. MFE, and MAI 0.5 inch standoffs used.
 2.71 g/cc Limestone Density Matrix used to calculate porosity.
 All intervals logged and scaled per customer's request.
 Tight pulls, washouts and borehole rugosity will affect data quality.
 Annular volume with 5.5 inch production casing= 162 cu. ft.
 Total hole volume from TD to Surface casing= 1838 cu. ft.
 Service order: #3538923
 Rig: Val #7
 Engineer: R. Hoffman
 Operator(s): K. Rinehart

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

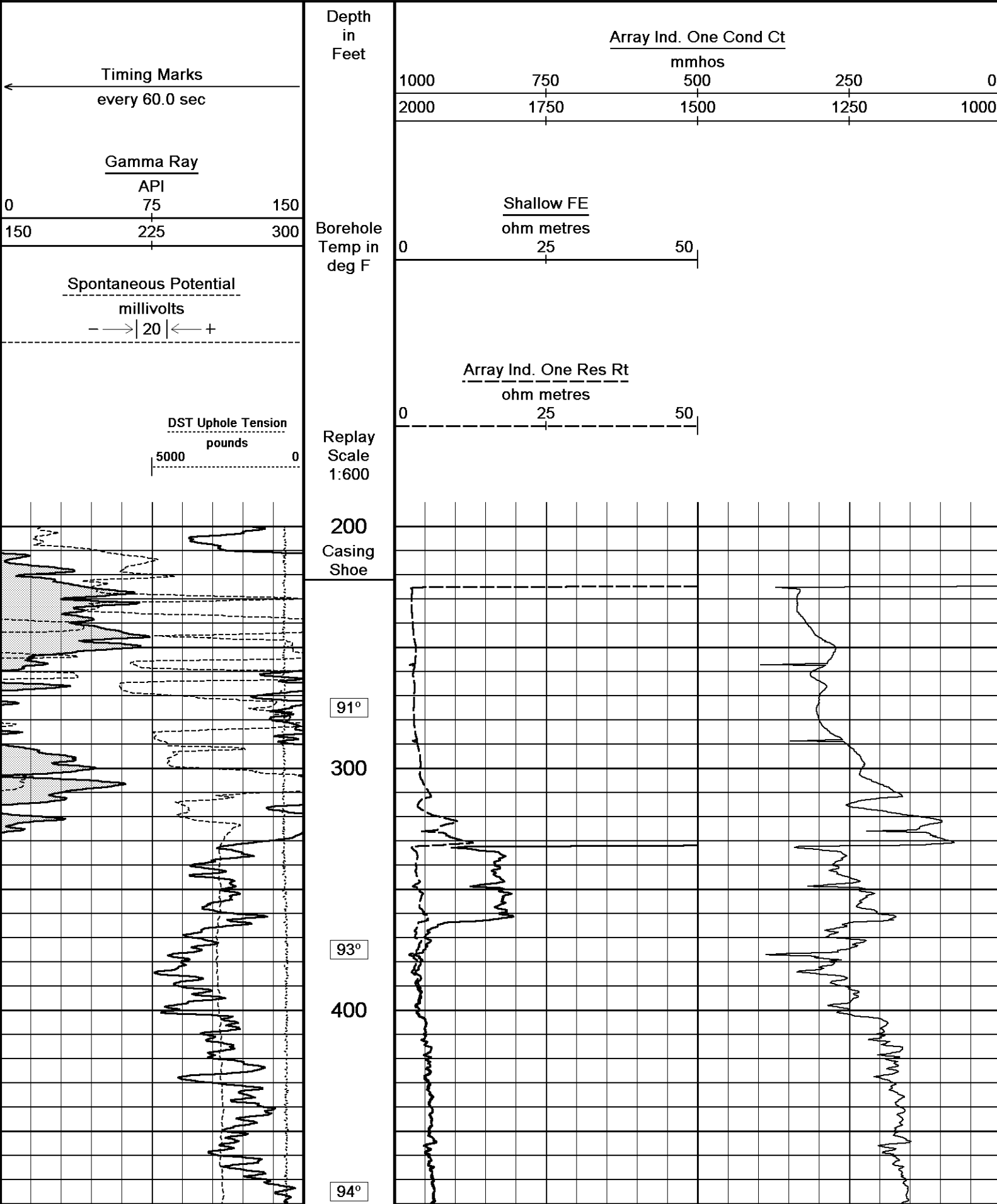
Depth Based Data - Maximum Sampling Increment 10.0cm

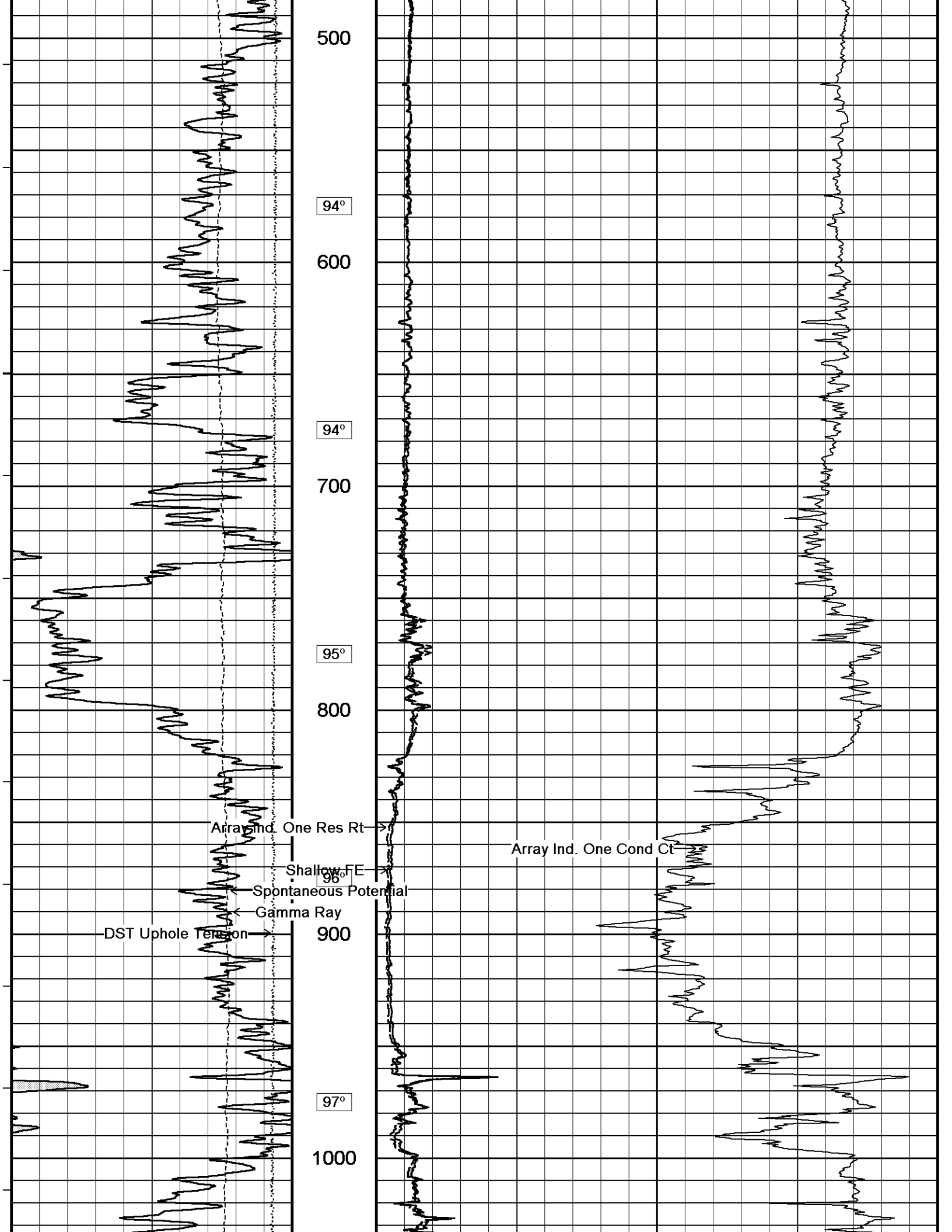
Plotted on 23-SEP-2012 08:21

Filename: C:\Minimus 13.02.6600\Data\Shakespeare Peterson #...\Shakespeare Peterson #2-8 Main.dta

Recorded on 23-SEP-2012 06:12

System Versions: Logged with 13.02.6600 Plotted with 13.02.6600





500

94°

600

94°

700

95°

800

Array Ind. One Res Rt

Array Ind. One Cond Ct

Shallow FE

Spontaneous Potential

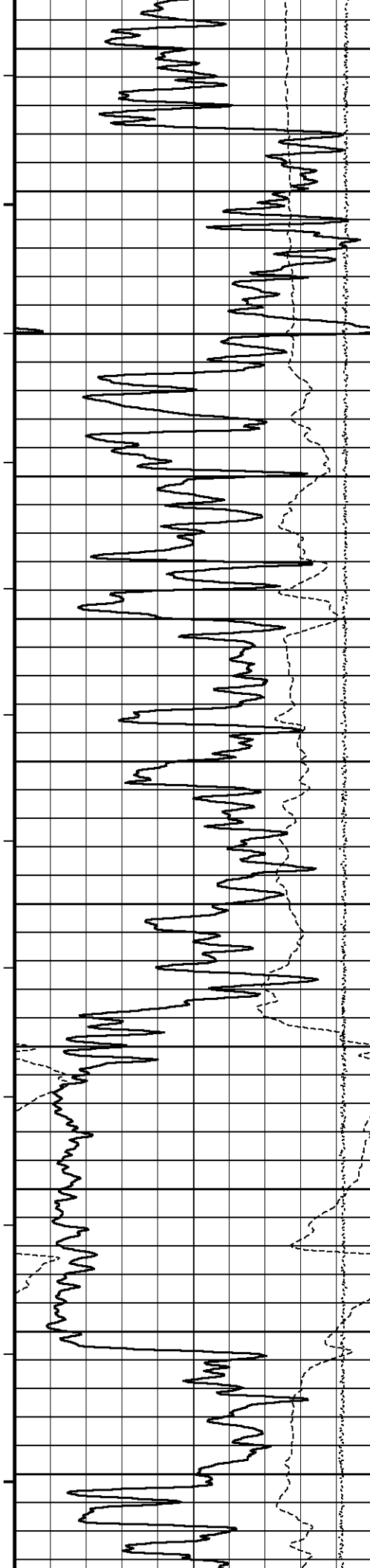
Gamma Ray

DST Uphole Tension

900

97°

1000



98°

1100

98°

1200

98°

1300

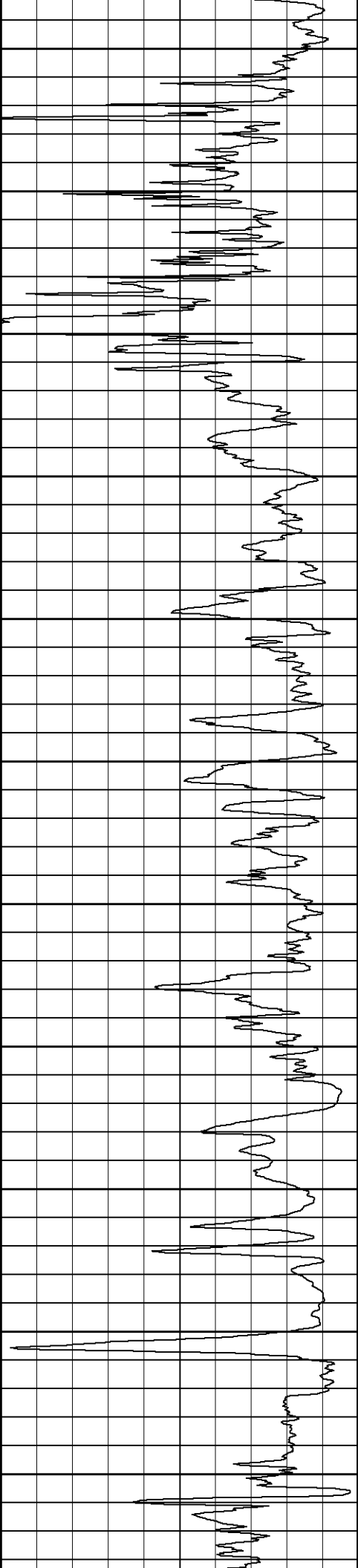
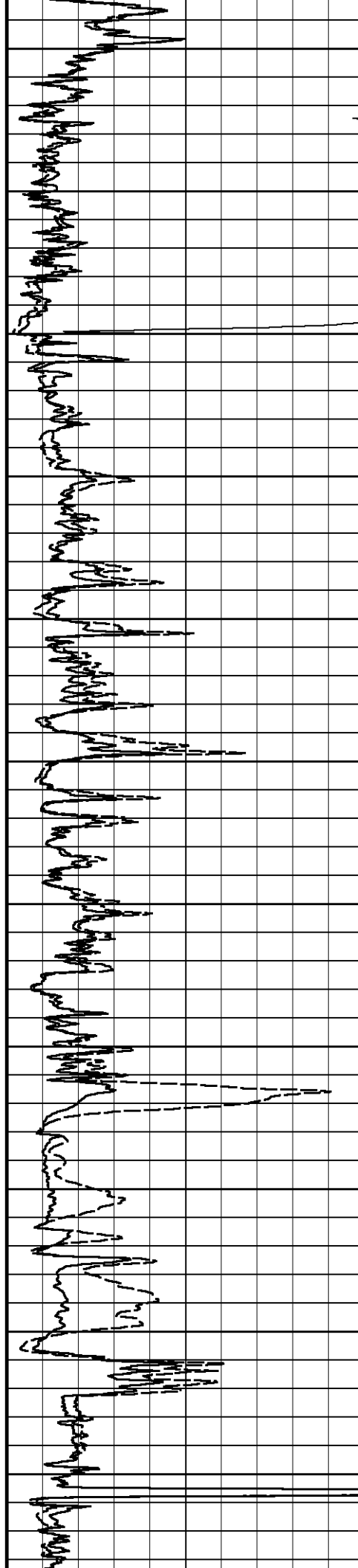
99°

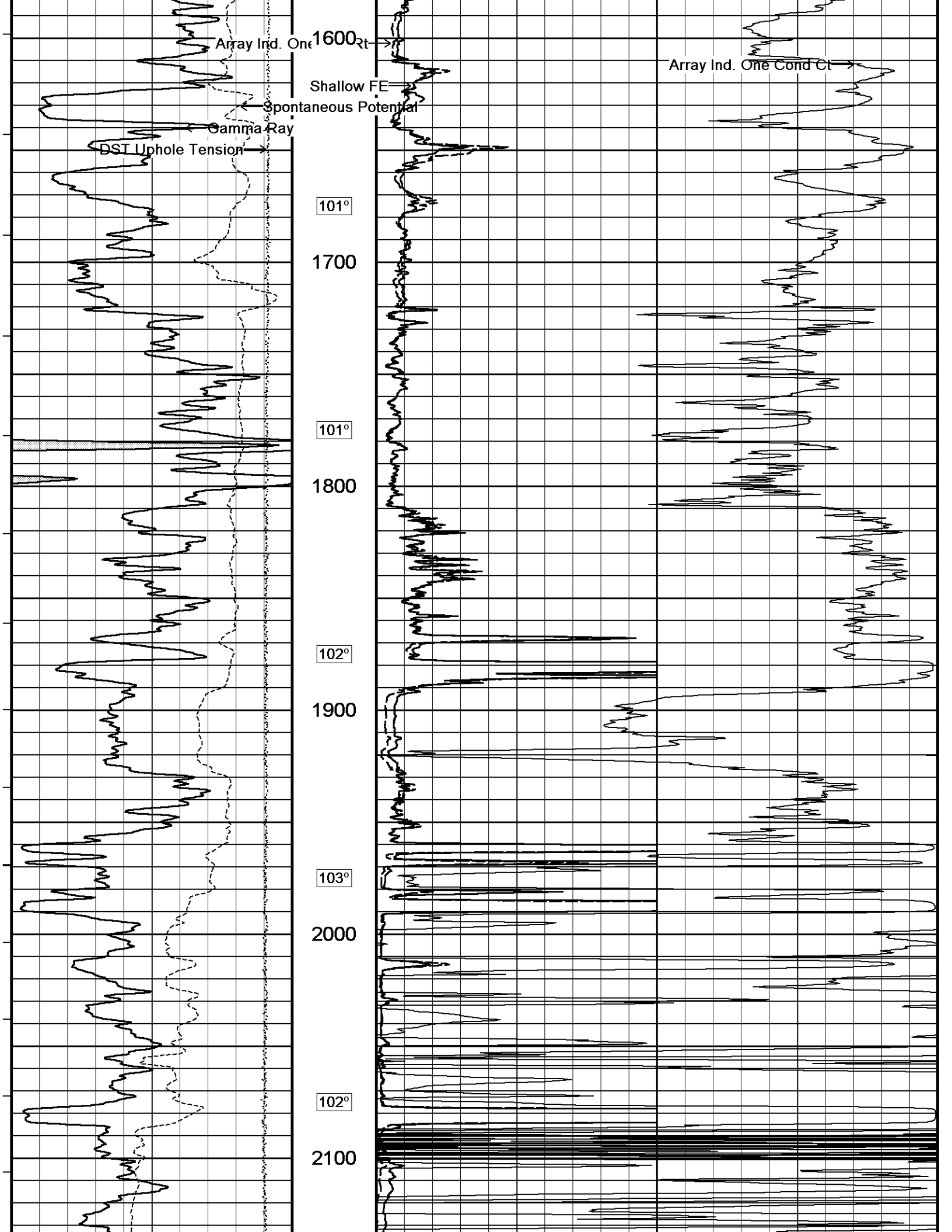
1400

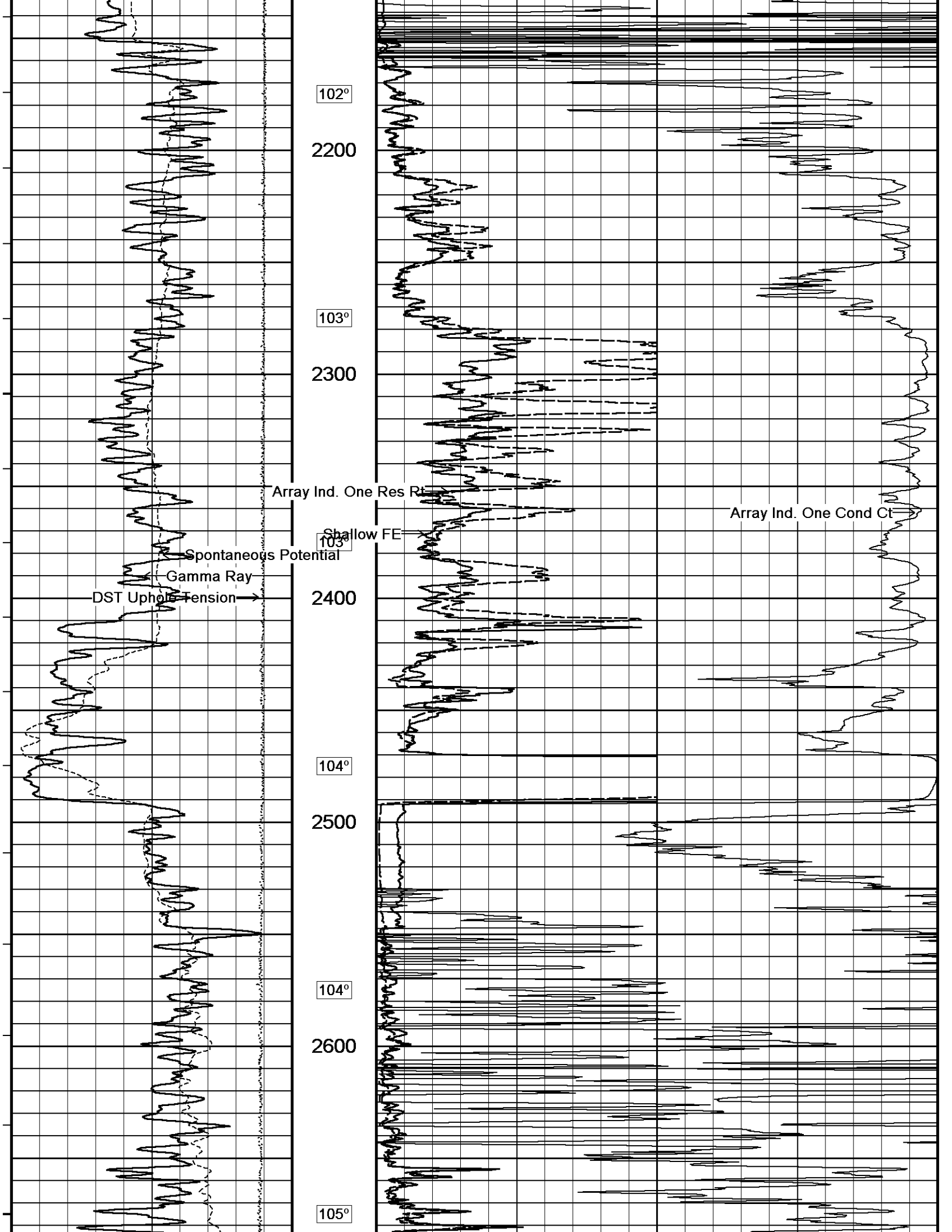
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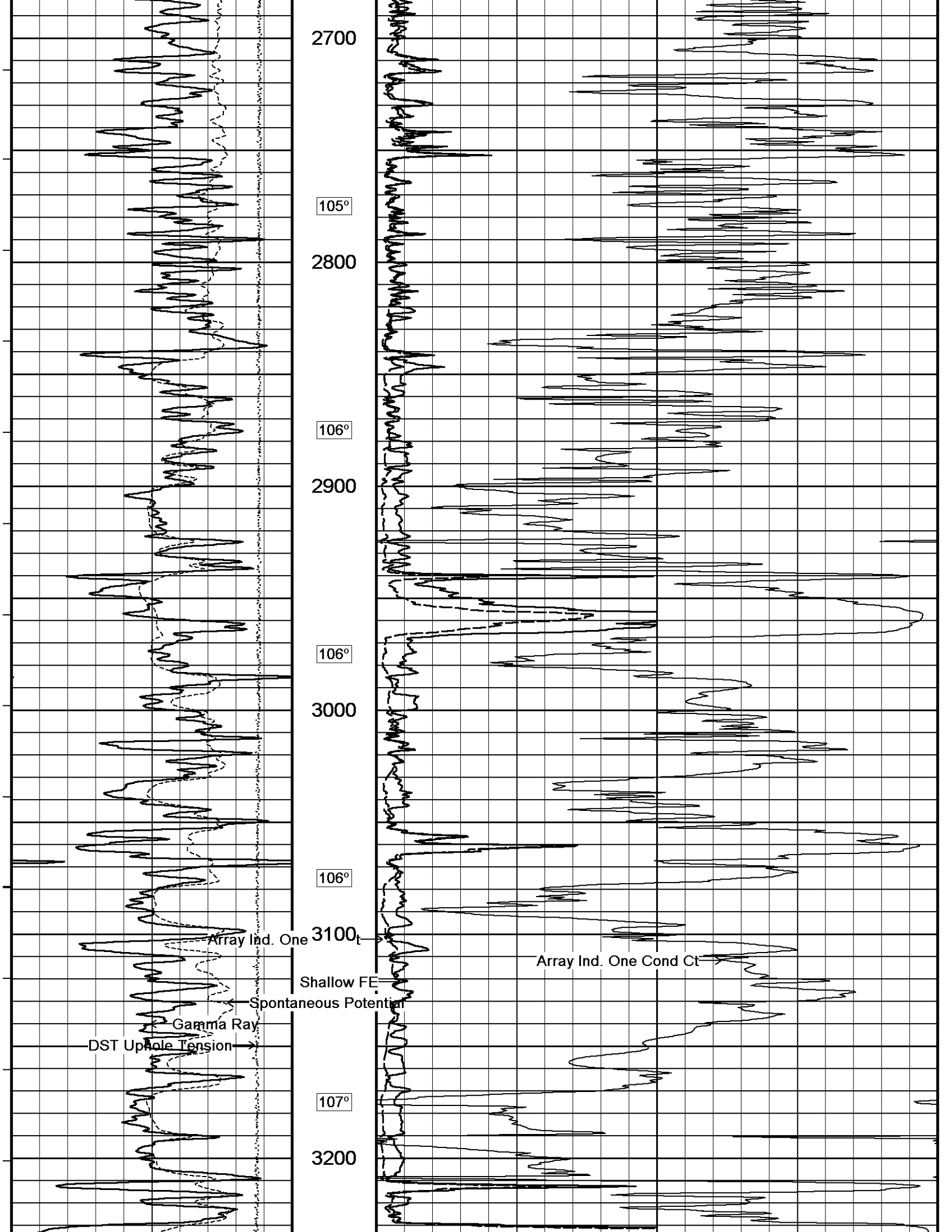
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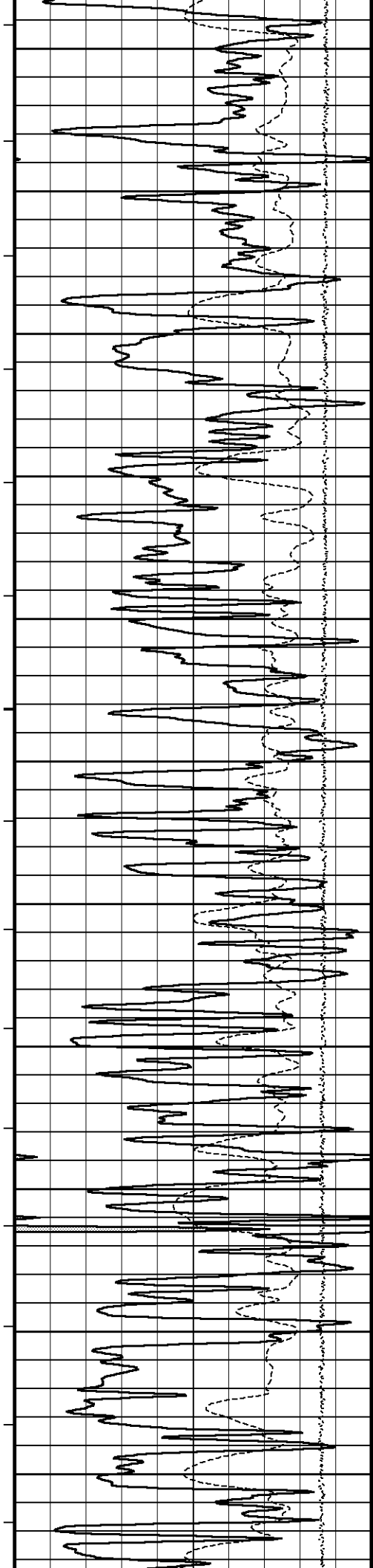
100°











107°

3300

108°

3400

108°

3500

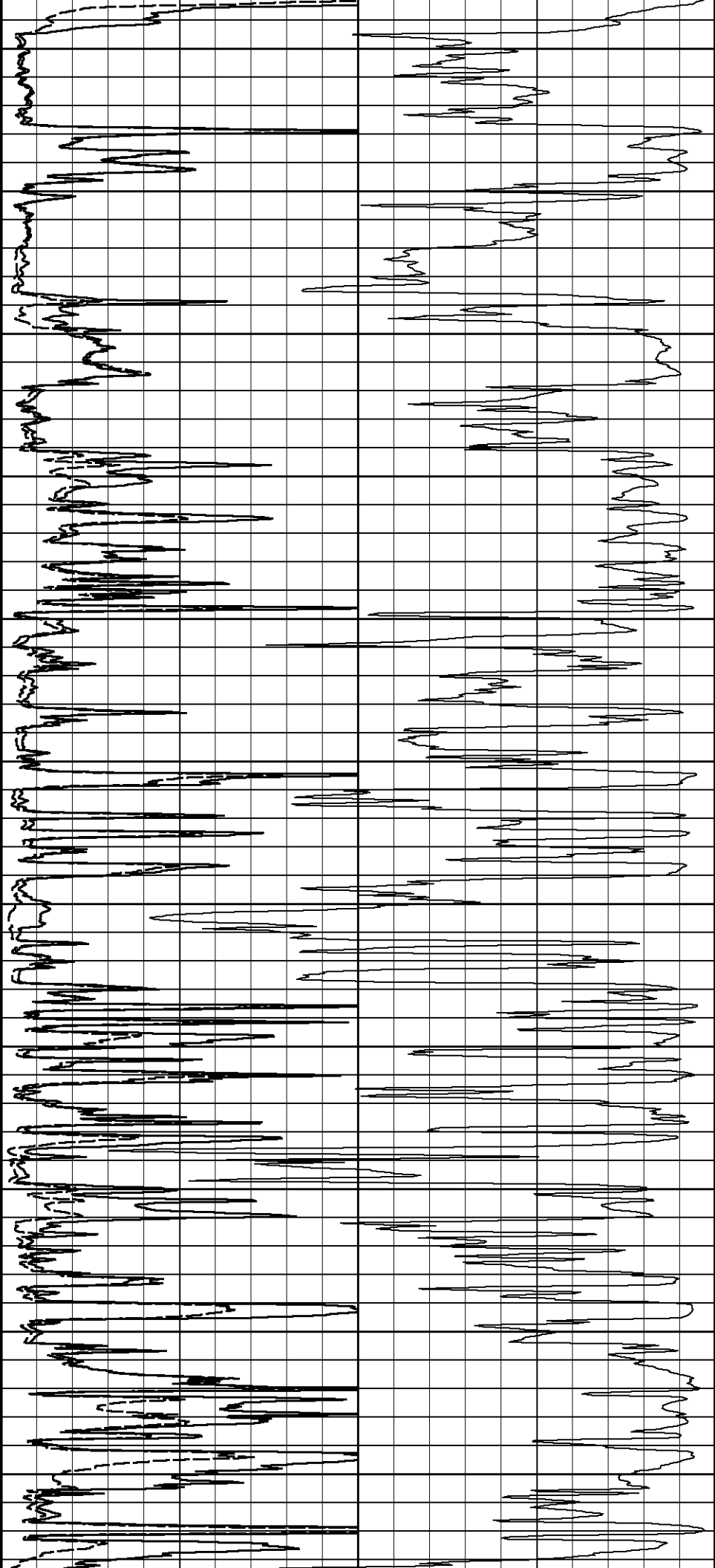
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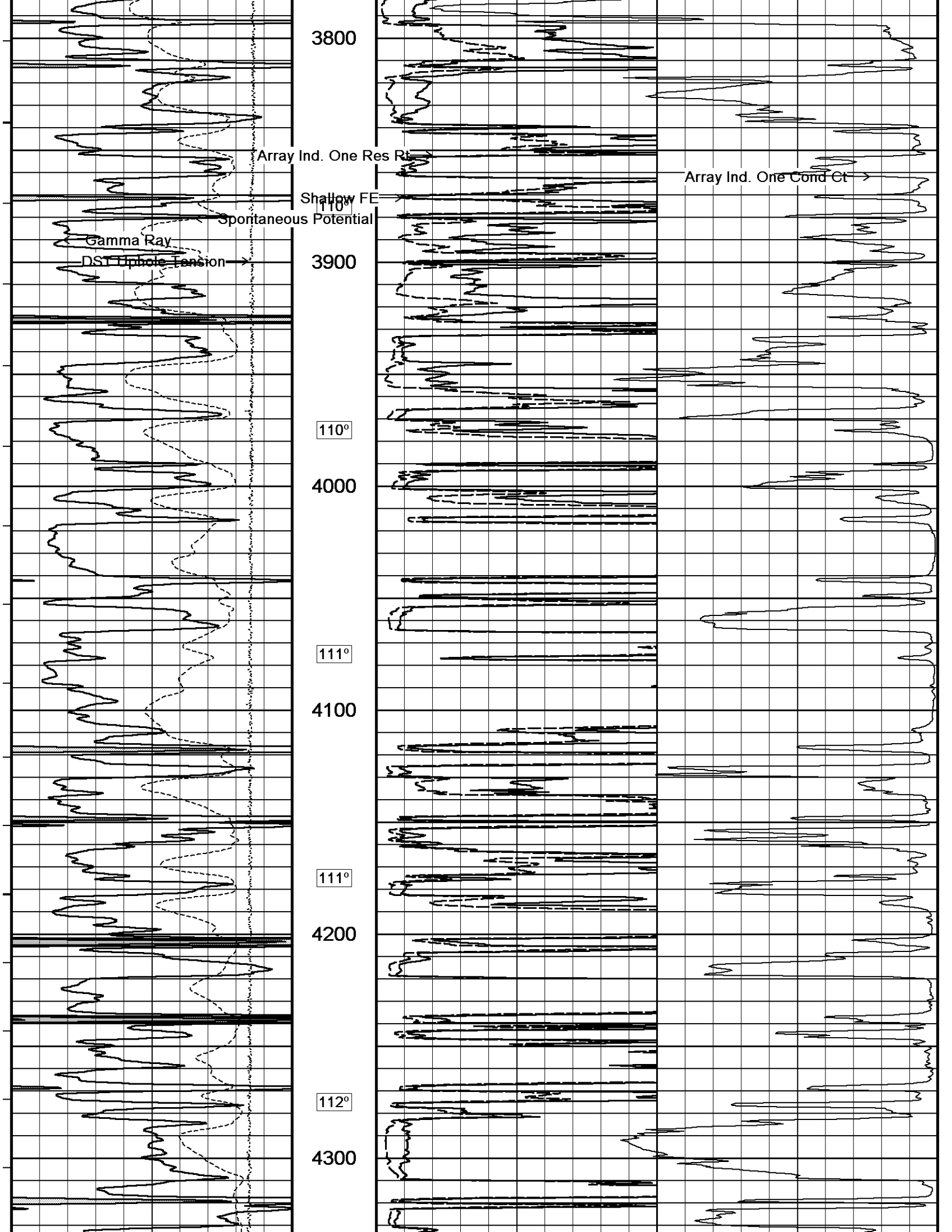
3600

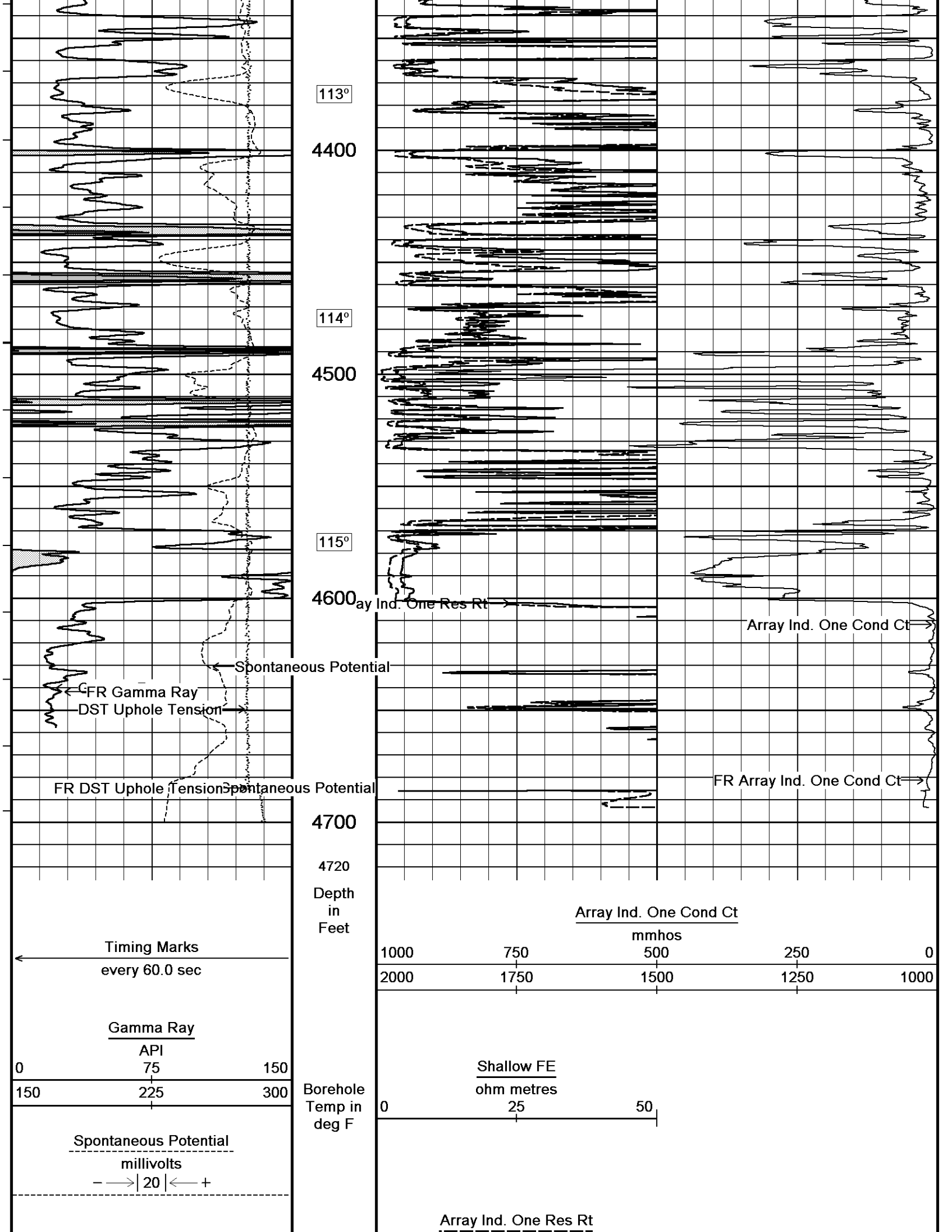
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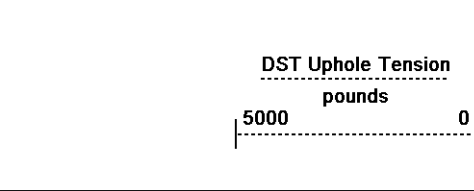
3700

110°

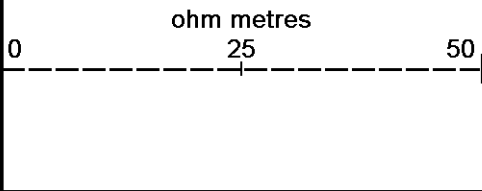








Replay
Scale
1:600

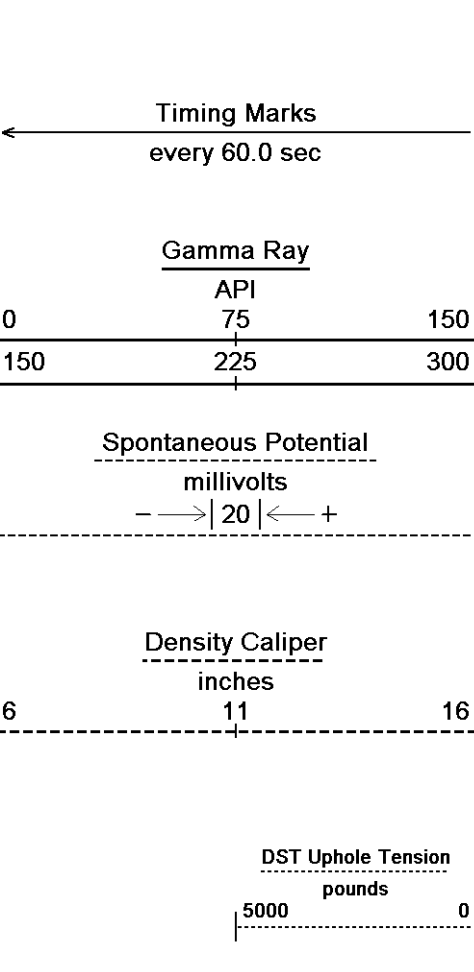


Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 23-SEP-2012 08:21
 Recorded on 23-SEP-2012 06:12
 Filename: C:\Minimus 13.02.6600\Data\Shakespeare Peterson #...\Shakespeare Peterson #2-8 Main.dta
 System Versions: Logged with 13.02.6600 Plotted with 13.02.6600

↑ 2 INCH MAIN ↑

↓ 5 INCH MAIN ↓

Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 23-SEP-2012 08:21
 Recorded on 23-SEP-2012 06:12
 Filename: C:\Minimus 13.02.6600\Data\Shakespeare Peterson #...\Shakespeare Peterson #2-8 Main.dta
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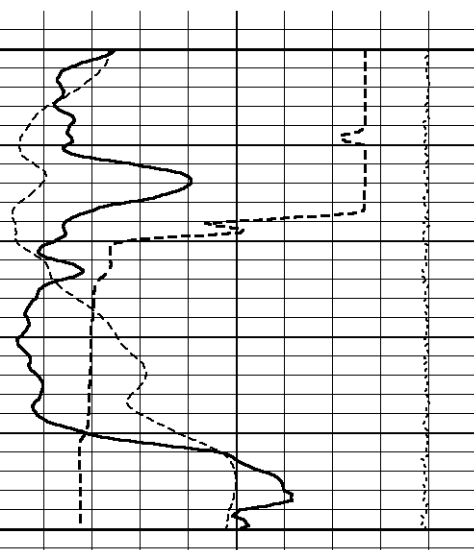
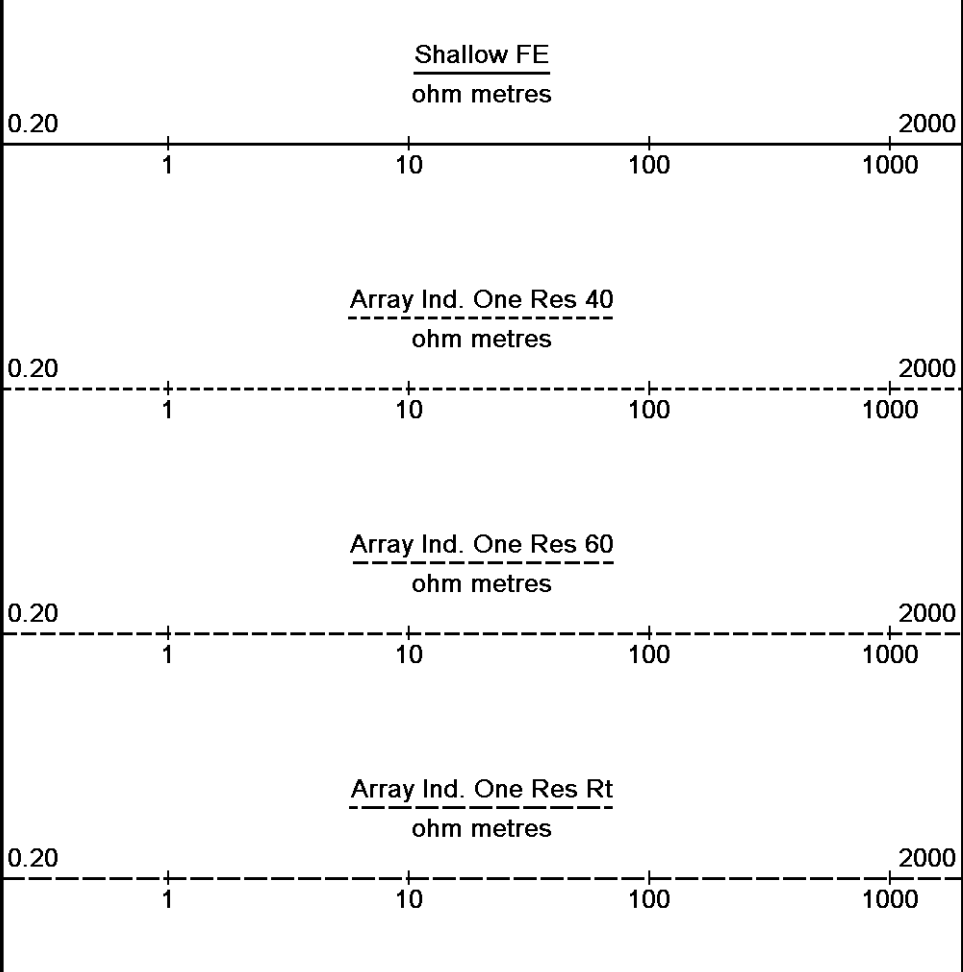
Depth
in
Feet

Borehole
Temp in
deg F

HVI
every
10 cu ft

Annular
Integral
every
10 cu ft

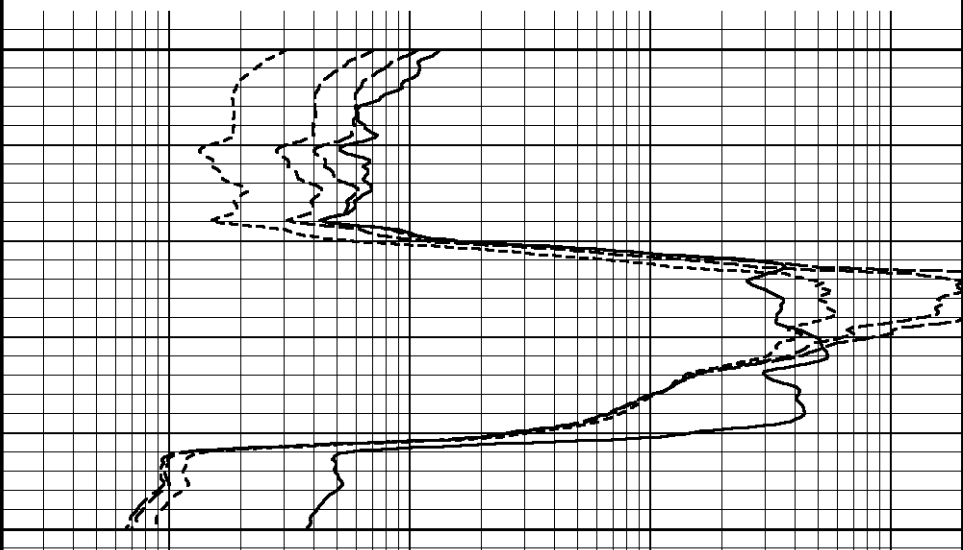
Replay
Scale
1:240

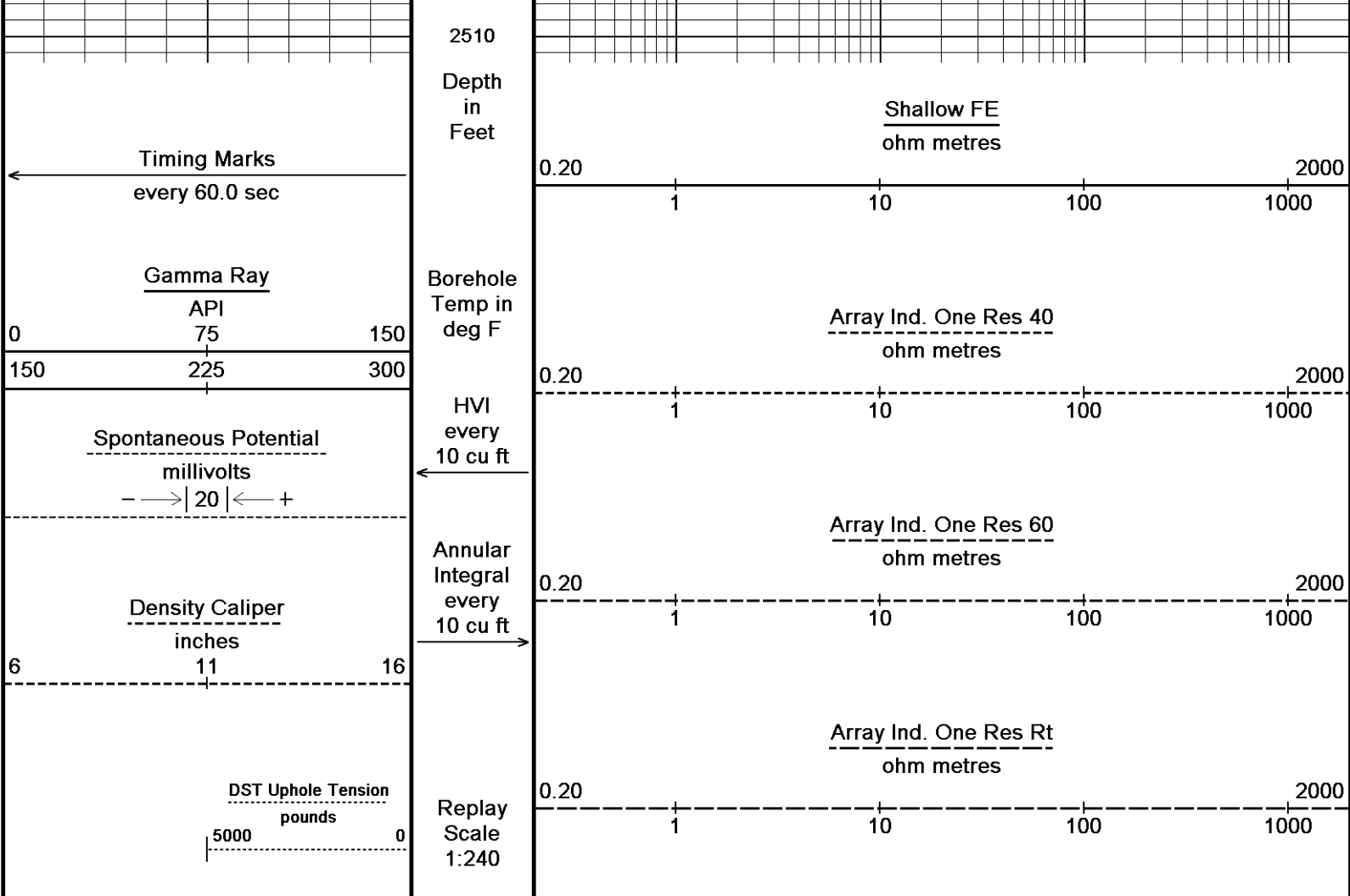


2450

104°

2500



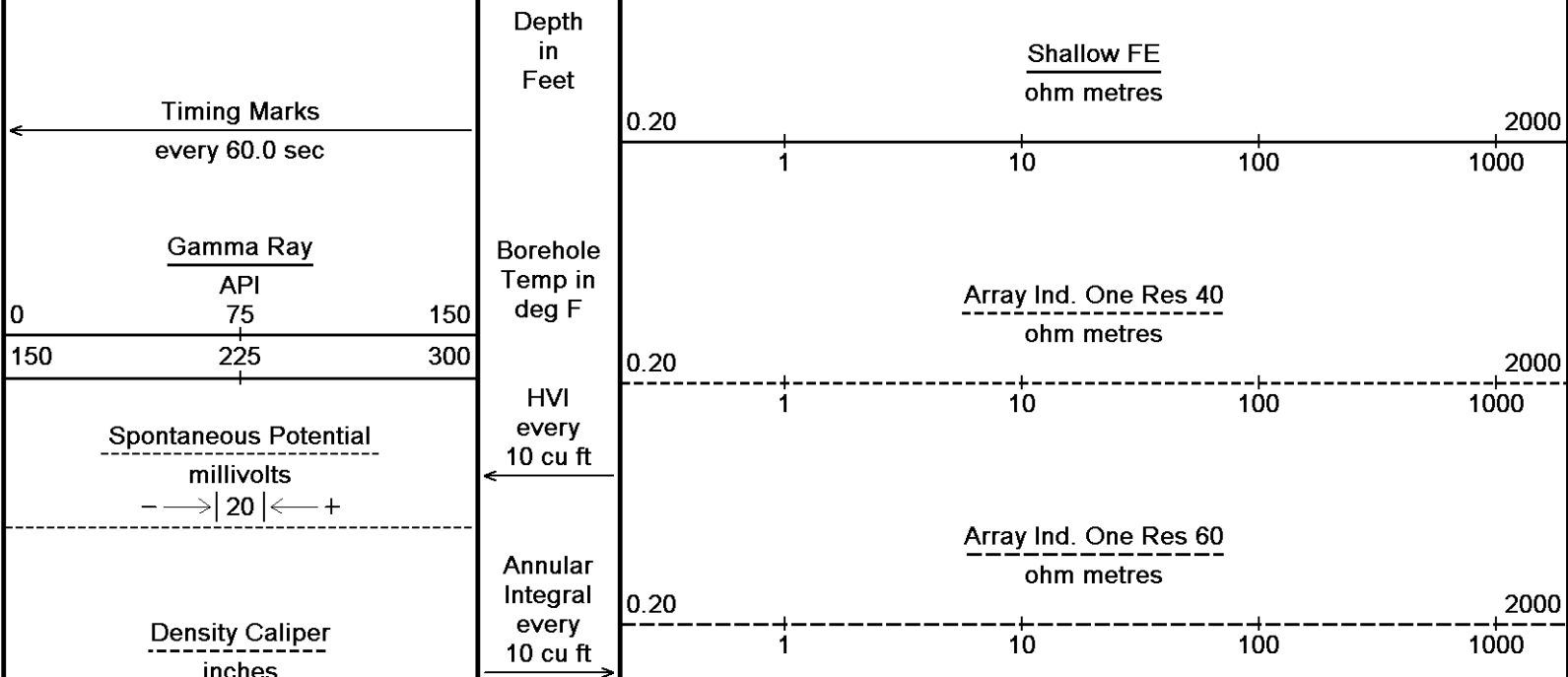


Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 23-SEP-2012 08:21
 Filename: C:\Minimus 13.02.6600\Data\Shakespeare Peterson #...\Shakespeare Peterson #2-8 Main.dta Recorded on 23-SEP-2012 06:12
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↑ 5 INCH MAIN ↑

↓ 5 INCH MAIN ↓

Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 23-SEP-2012 08:21
 Filename: C:\Minimus 13.02.6600\Data\Shakespeare Peterson #...\Shakespeare Peterson #2-8 Main.dta Recorded on 23-SEP-2012 06:12
 System Versions: Logged with 13.02.6600 Plotted with 13.02.6600



6

11

16

DST Uphole Tension
pounds
5000 0

Replay
Scale
1:240

Array Ind. One Res Rt
ohm metres

0.20

2000

1

10

100

1000

3800

110°

300

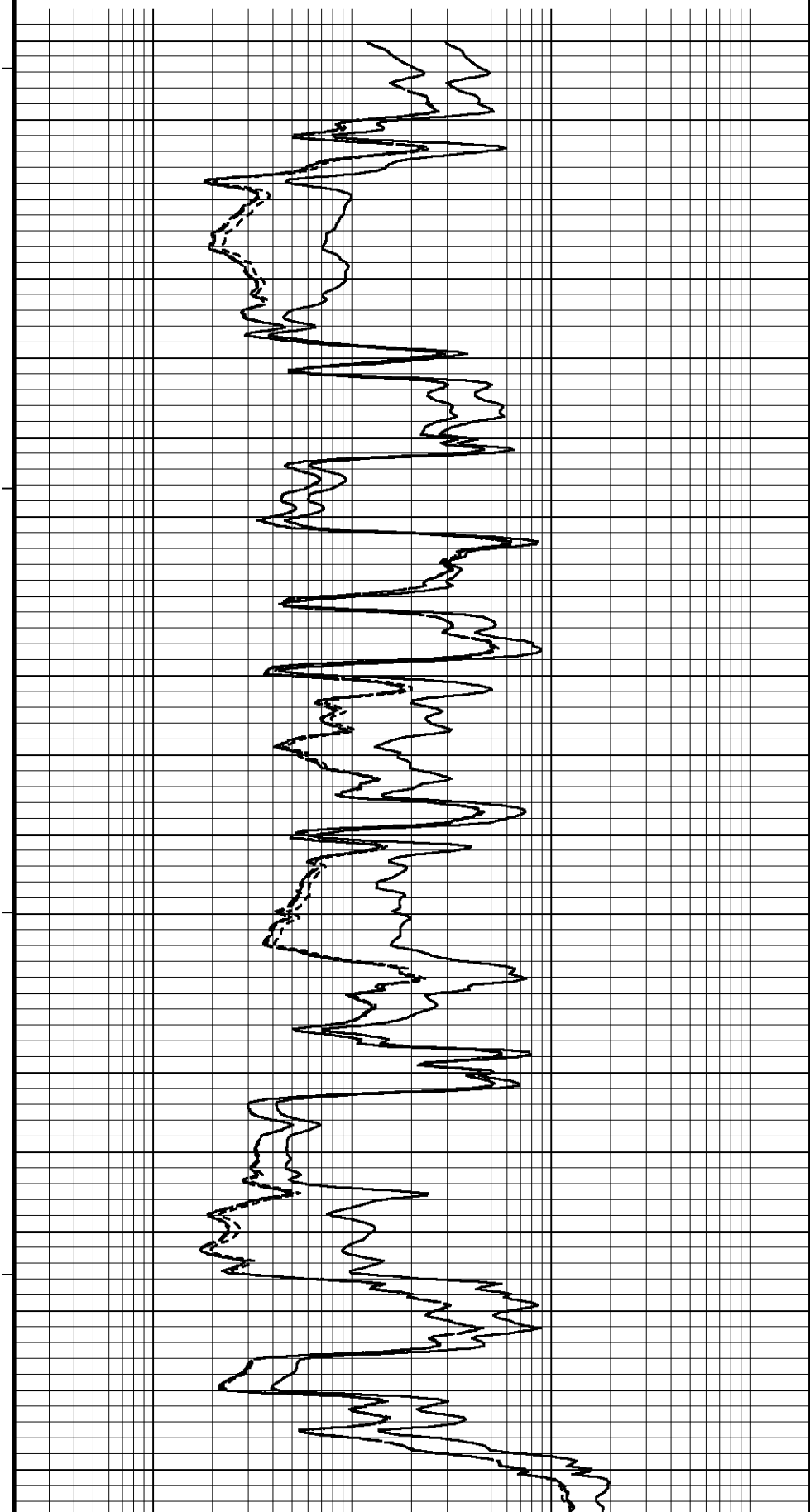
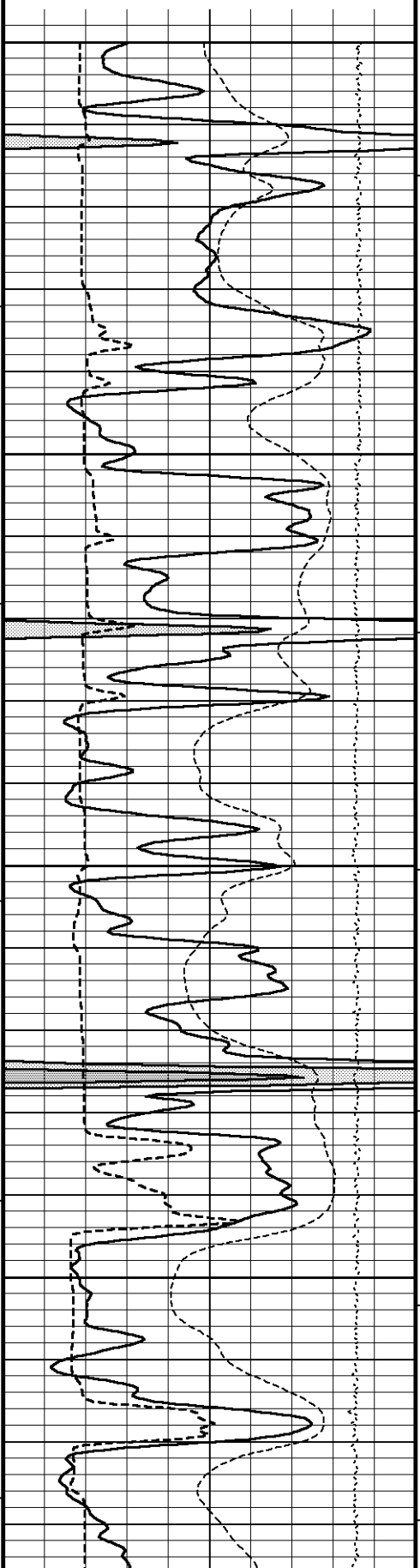
3850

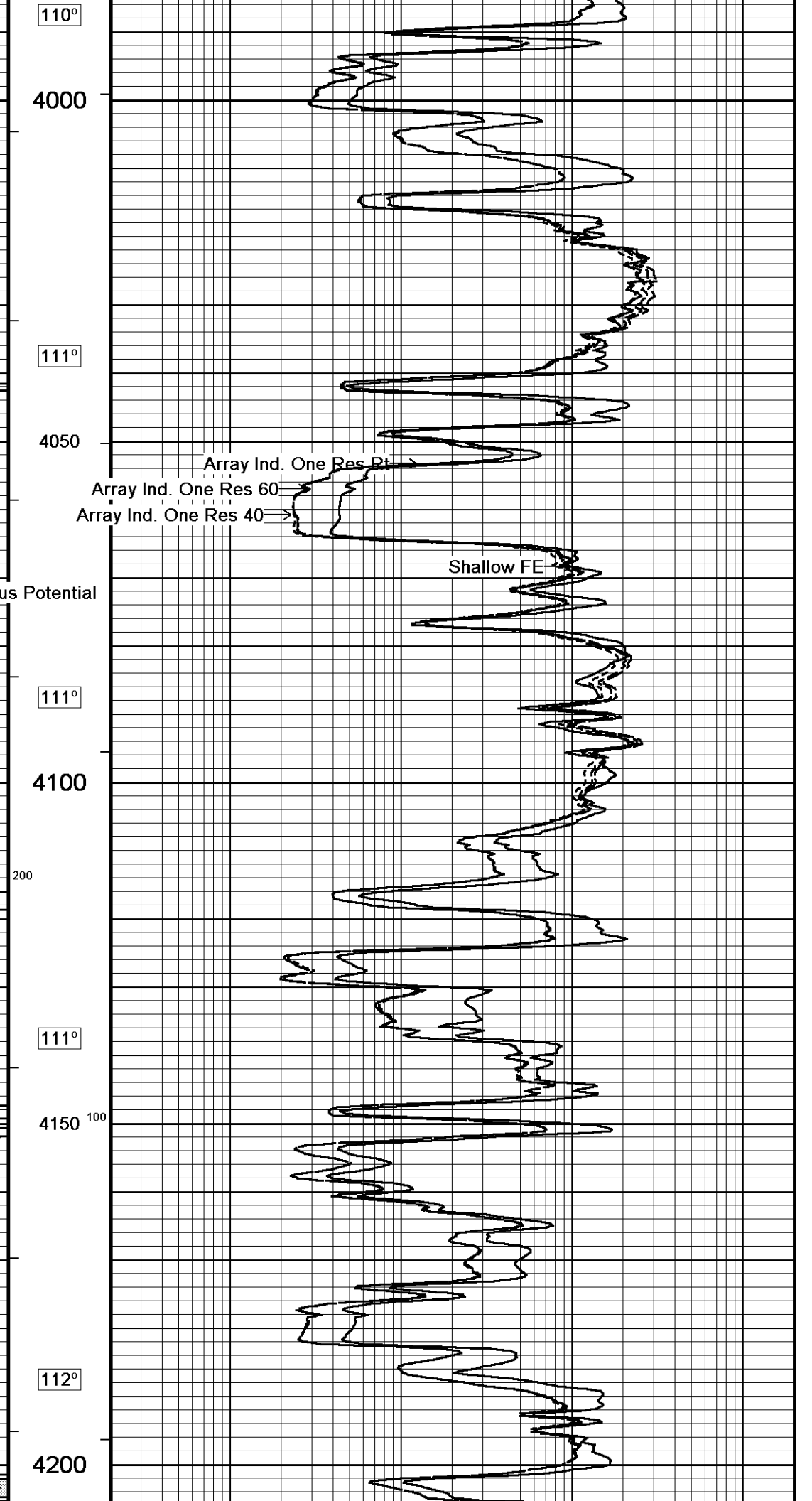
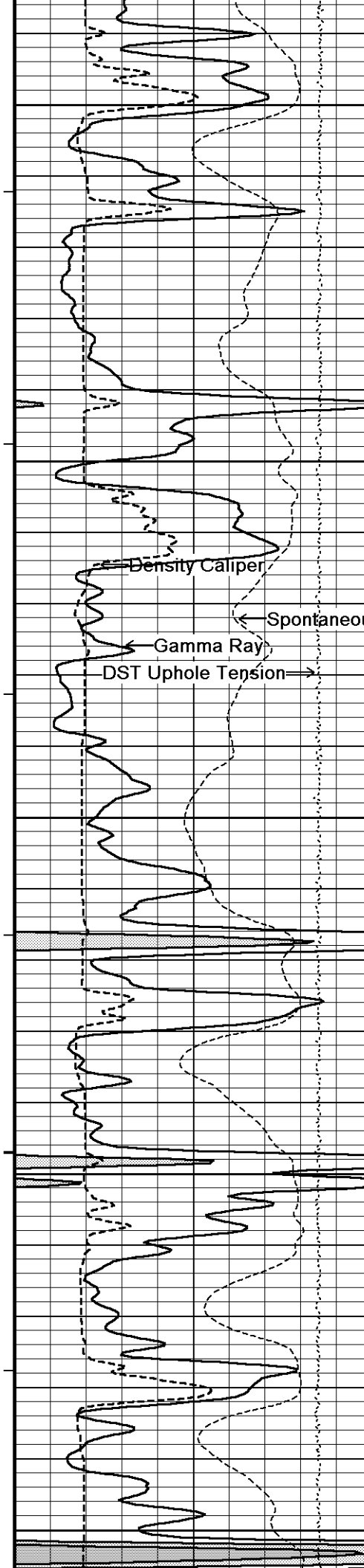
110°

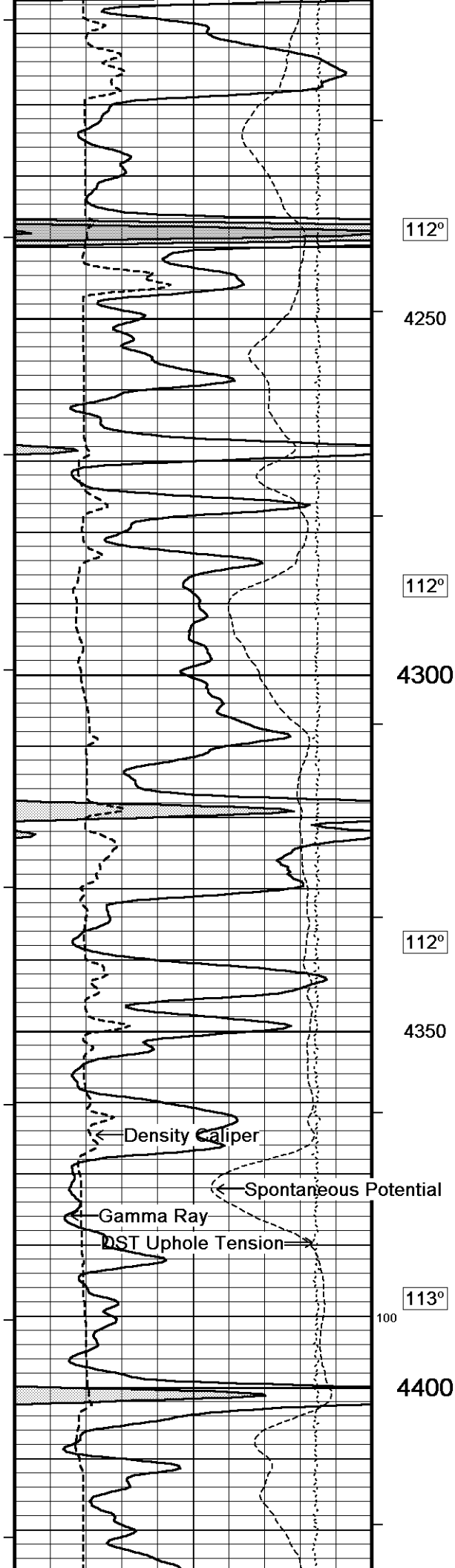
3900

110°

3950







112°

4250

112°

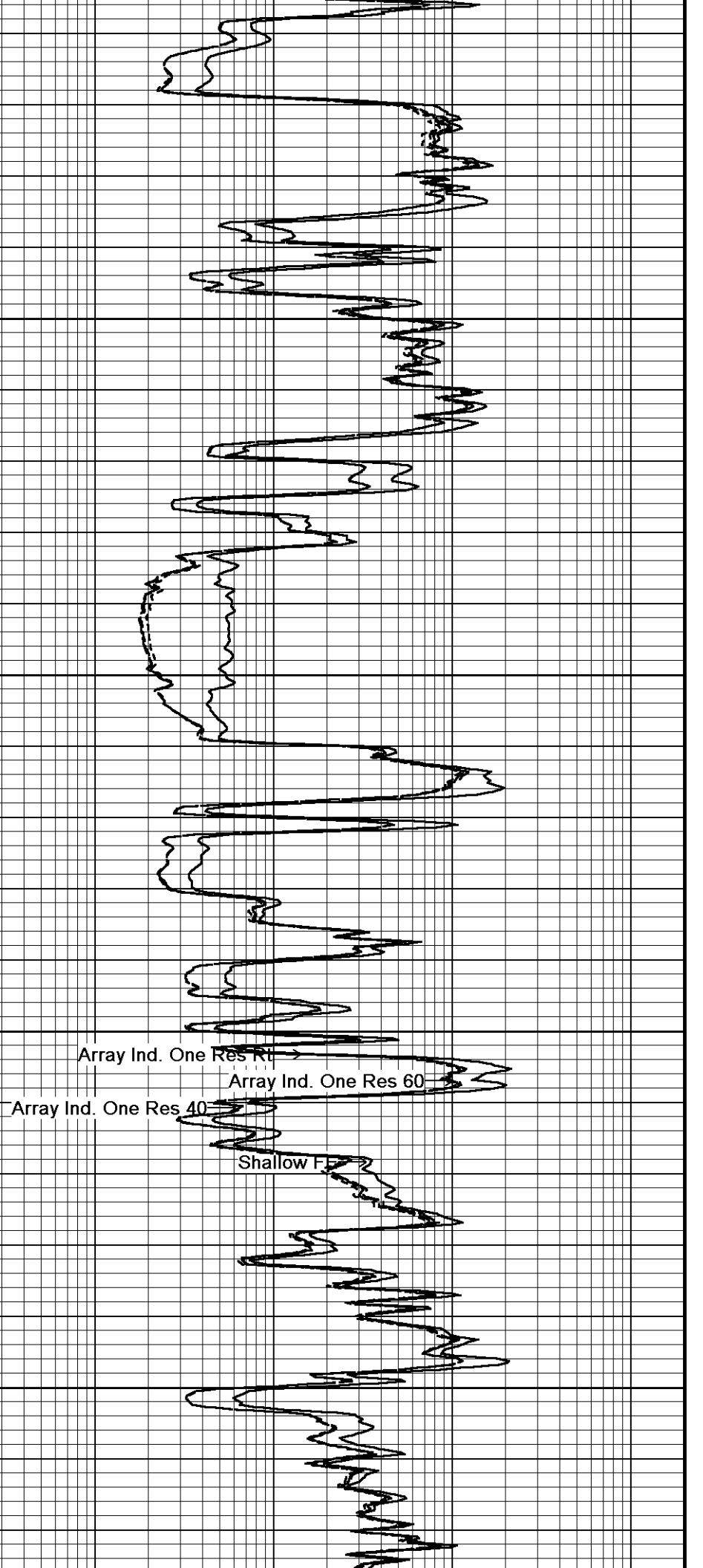
4300

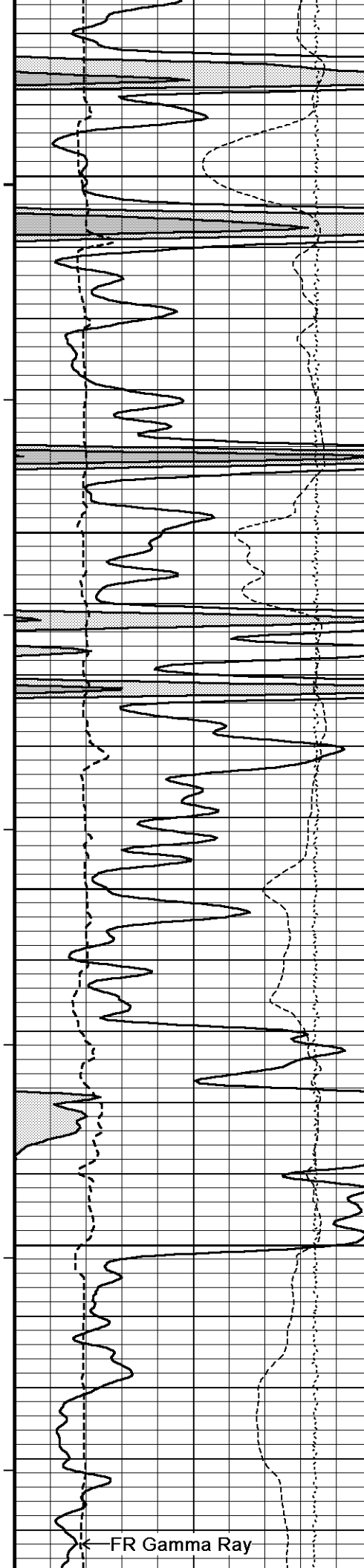
112°

4350

113°

4400





113°

4450

114°

4500

115°

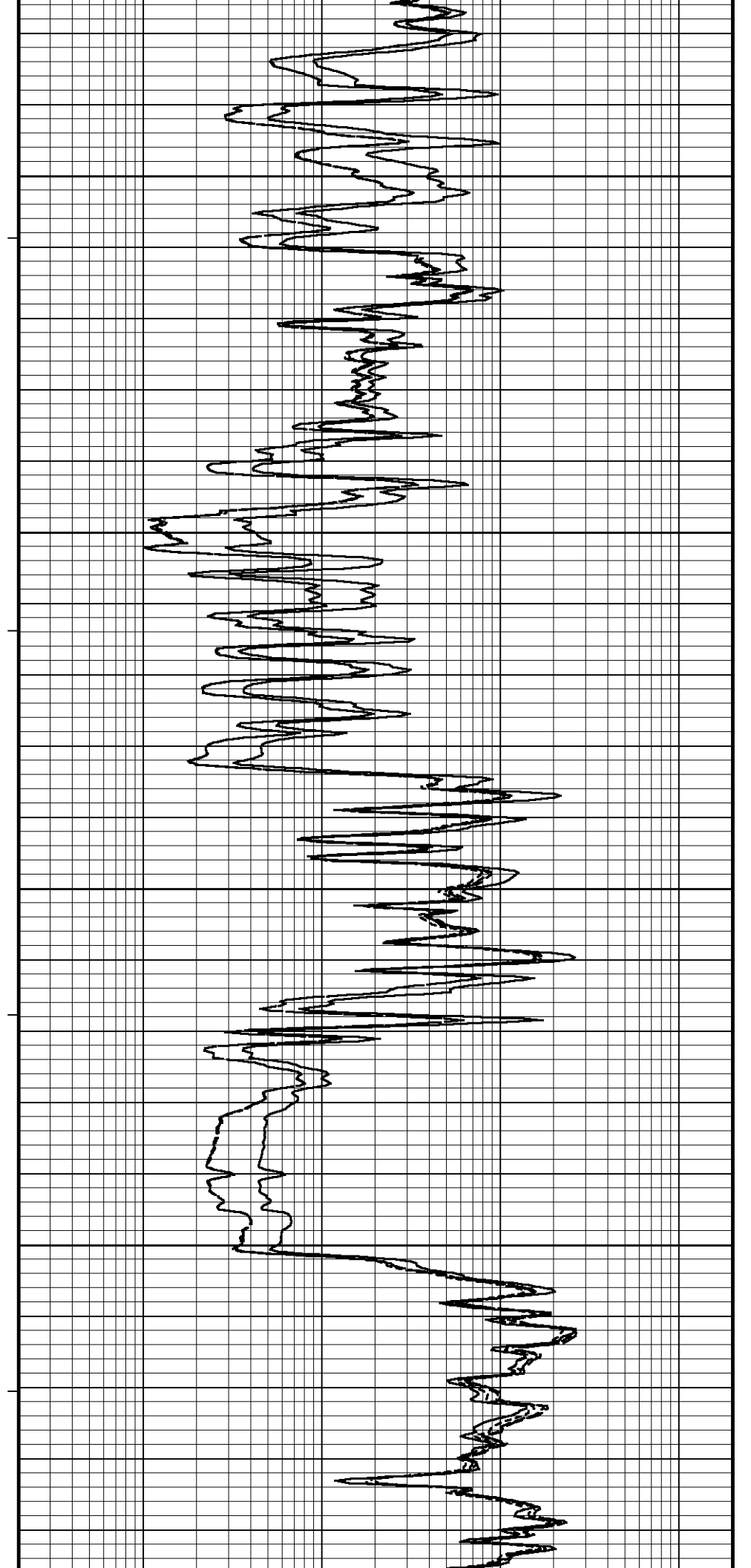
4550

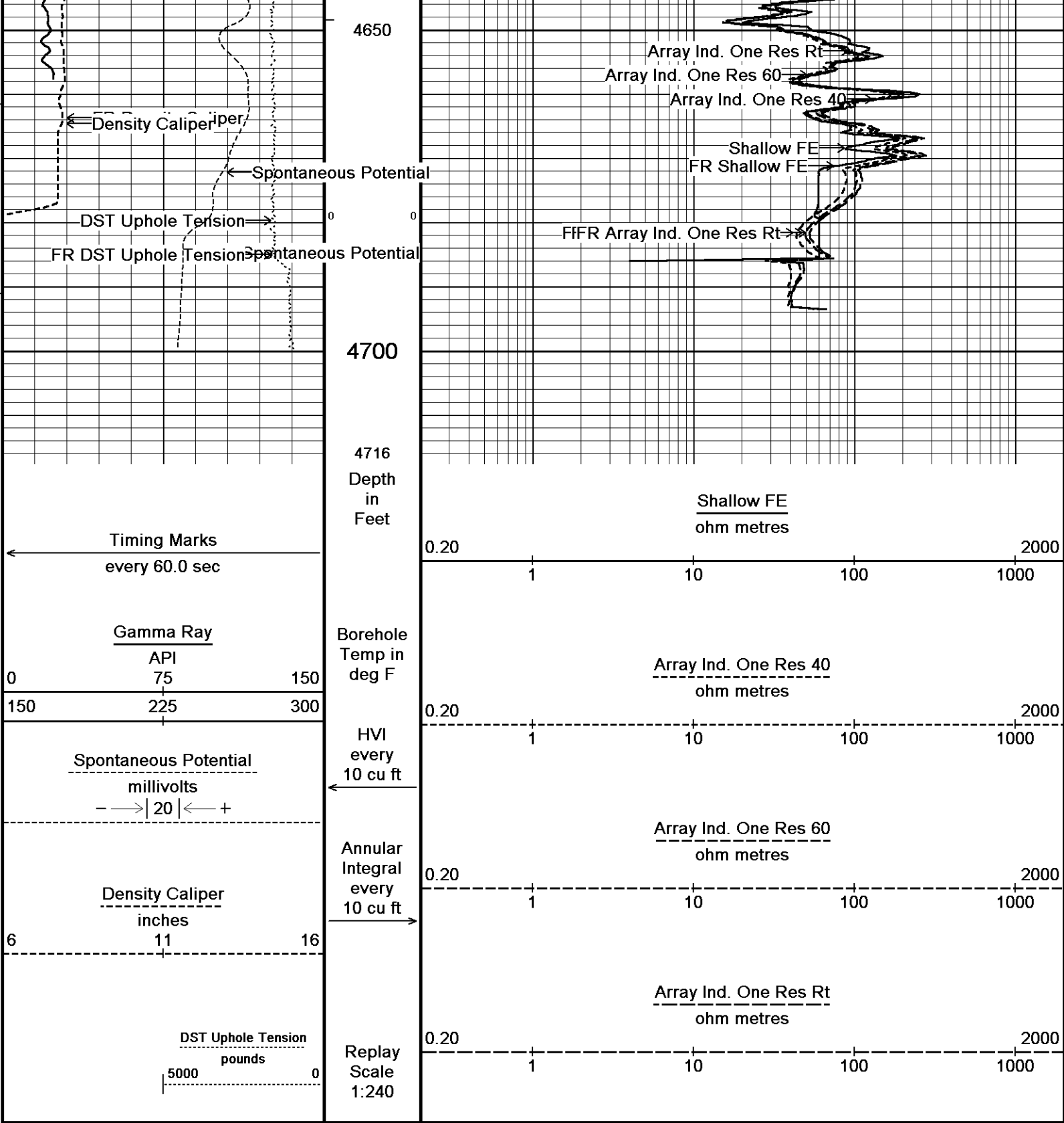
115°

4600

115°

FR Gamma Ray





↑

↓

REPEAT SECTION

↓

Depth Based Data - Maximum Sampling Increment 10.0cm

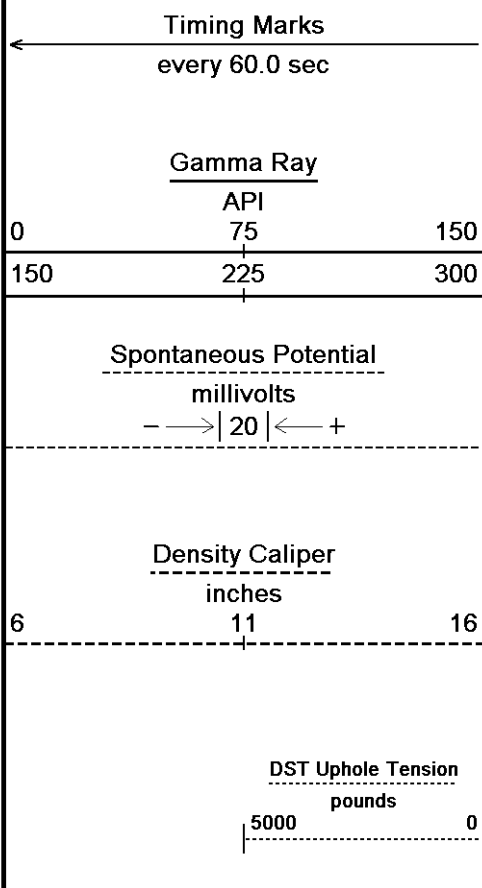
Plotted on 23-SEP-2012 08:21

Filename: C:\Minimus 13.02.6600\Data\Shakespeare Peterson #...\Shakespeare Peterson #2-8 Repeat.dta

Recorded on 23-SEP-2012 05:52

System Versions: Logged with 13.02.6600 Plotted with 13.02.6600

	Depth in	Shallow FE
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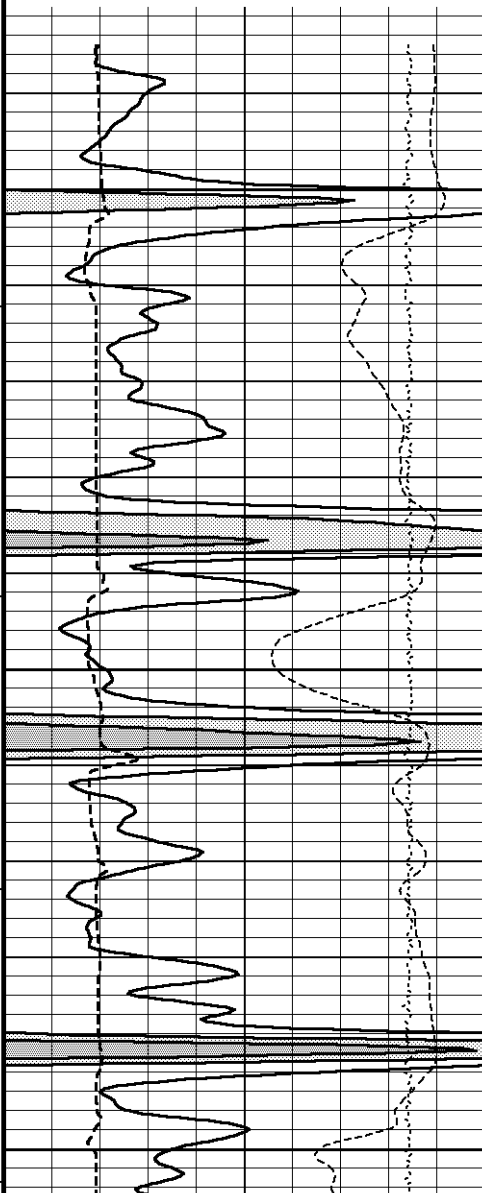
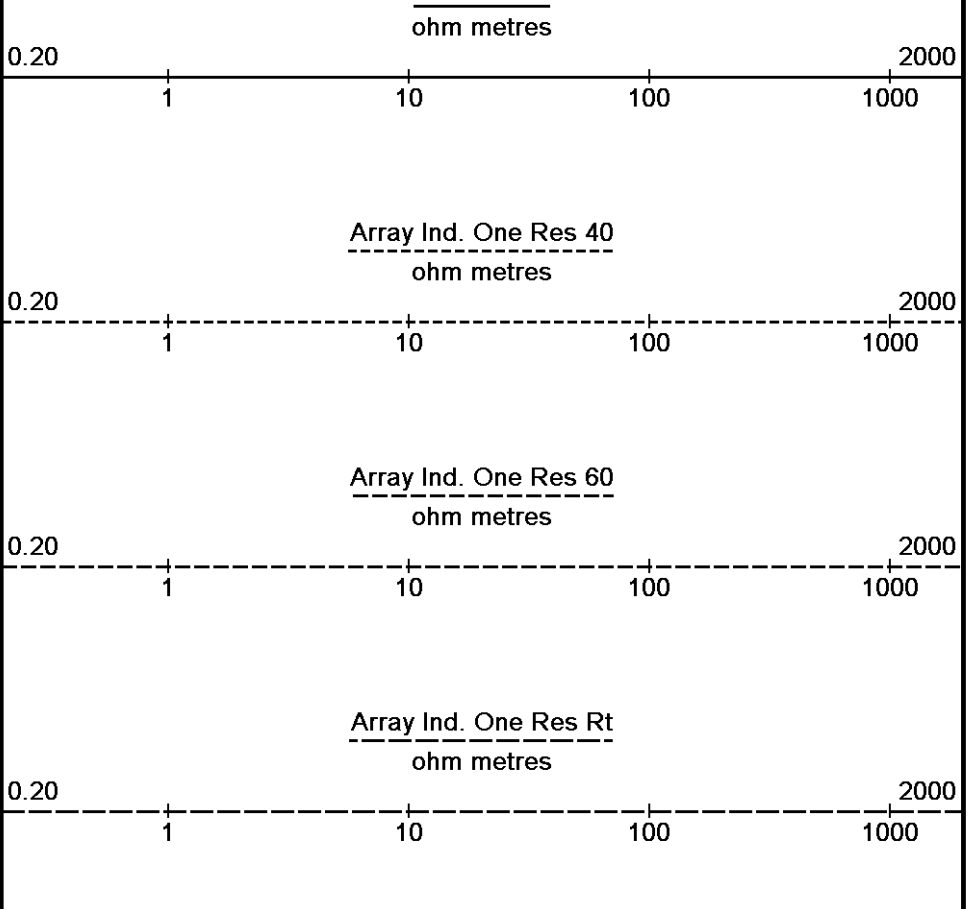
Feet

Borehole Temp in deg F

HVI every 10 cu ft

Annular Integral every 10 cu ft

Replay Scale 1:240



4384

100

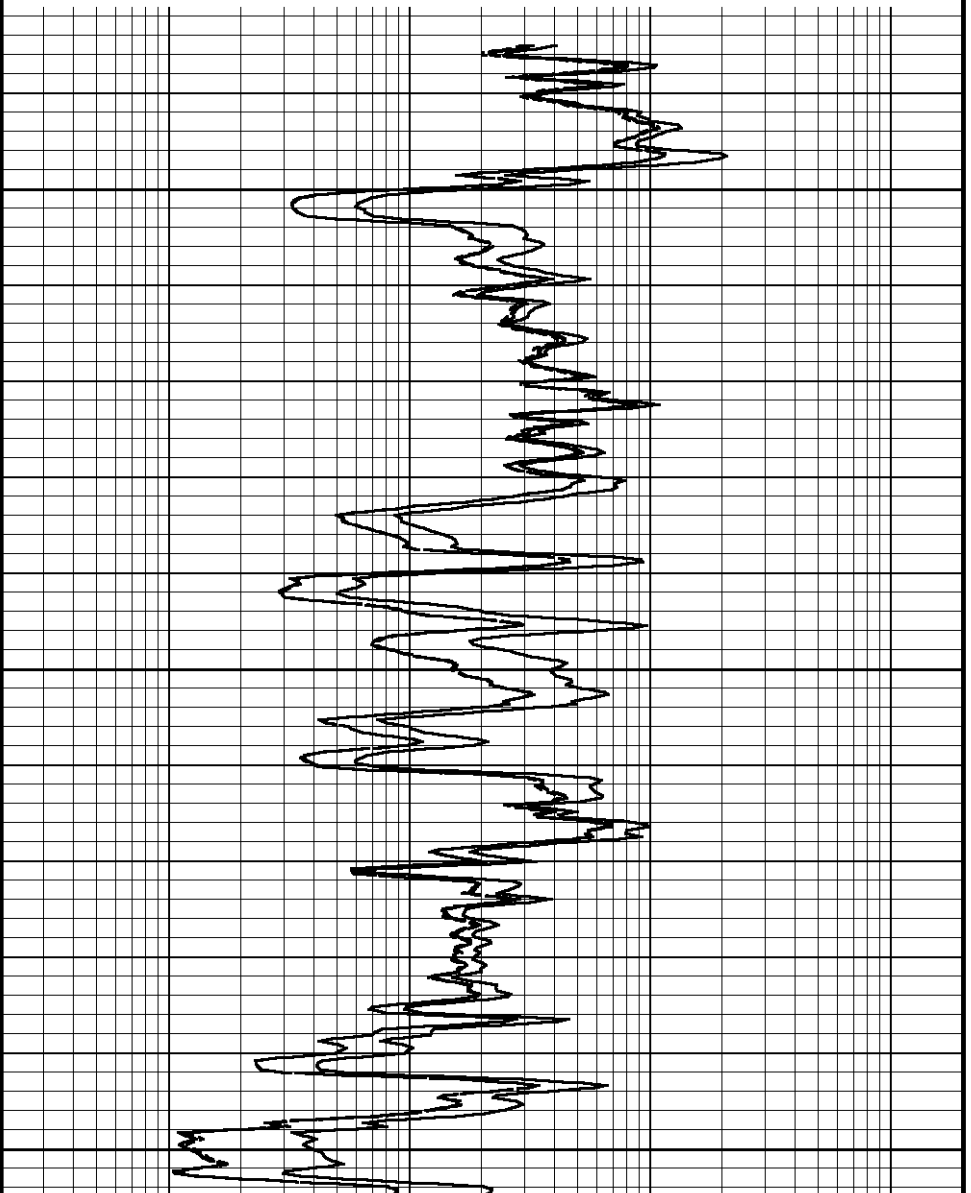
4400

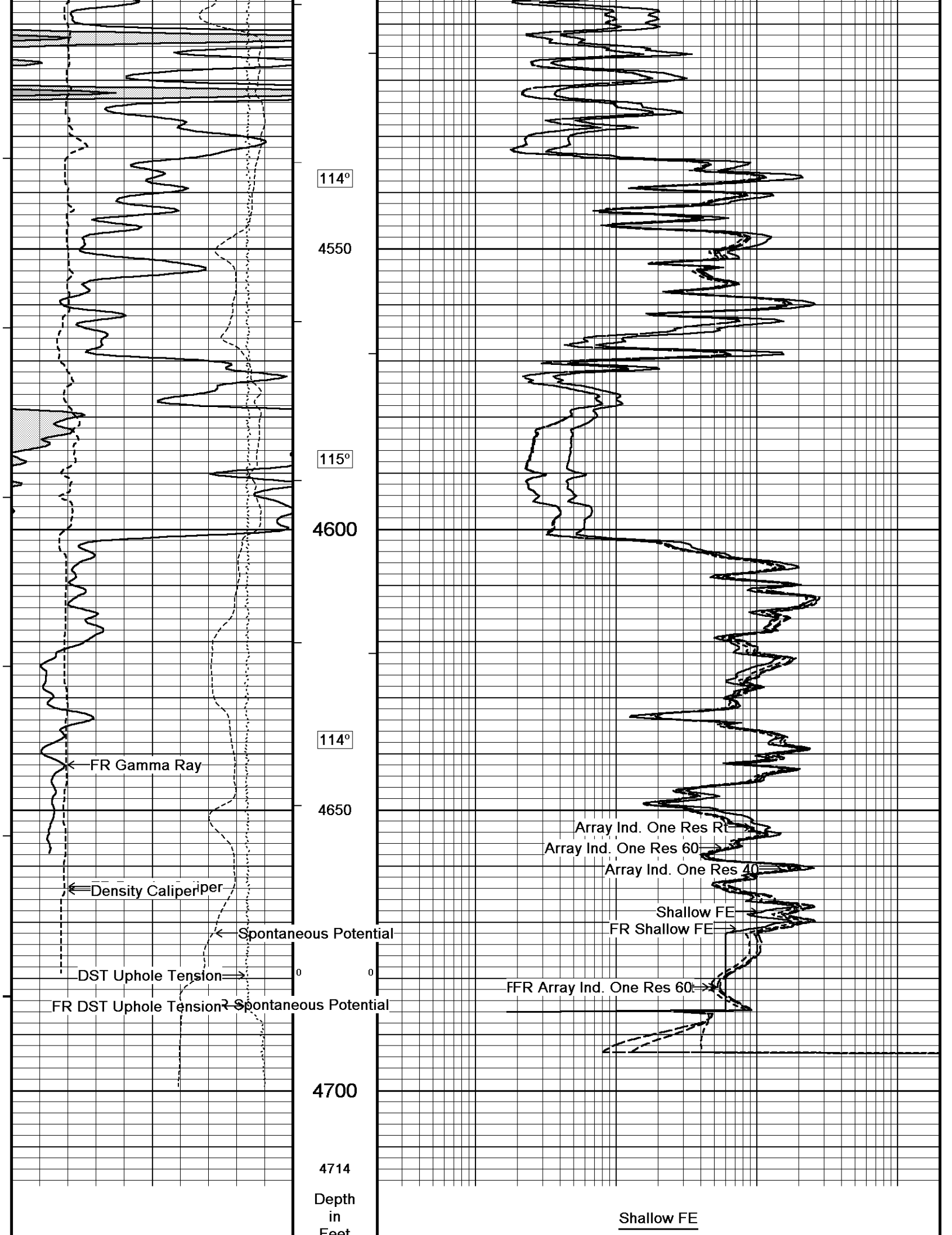
113°

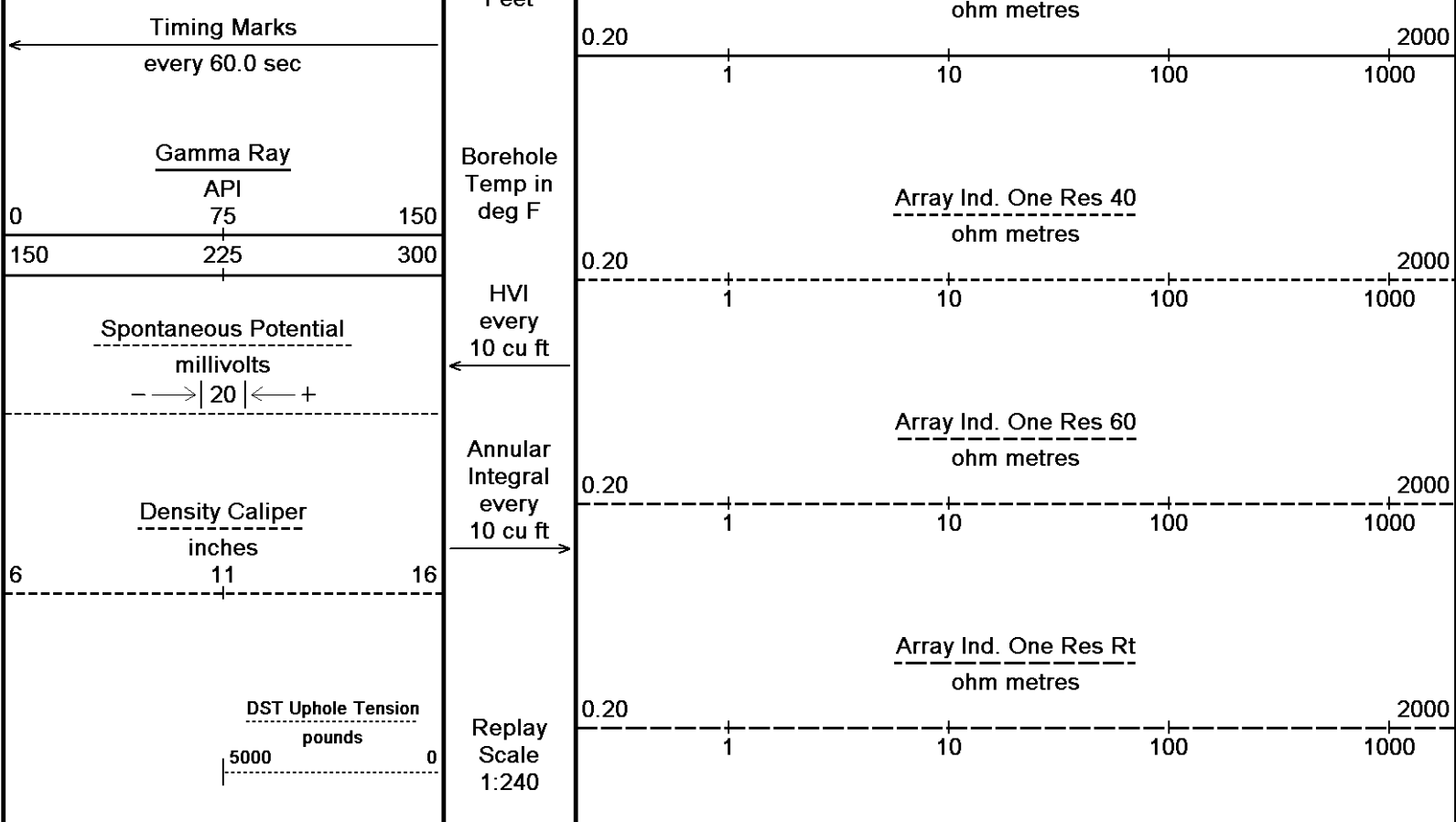
4450

113°

4500







Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 23-SEP-2012 08:21
 Filename: C:\Minimus 13.02.6600\Data\Shakespeare Peterson...\Shakespeare Peterson #2-8 Repeat.dta
 Recorded on 23-SEP-2012 05:52
 System Versions: Logged with 13.02.6600 Plotted with 13.02.6600

REPEAT SECTION

BEFORE SURVEY CALIBRATION
 C:\Minimus 13.02.6600\Data\Shakespeare Peterson #2-8\Shakespeare Peterson #2-8 Main.dta

General Constants All 000 Last Edited on 23-SEP-2012,04:00

General Parameters		
Mud Resistivity	1.140	ohm-metres
Mud Resistivity Temperature	93.000	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	Base Density Porosity	
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 23-SEP-2012 05:02

Reading No	Measured	Calibrated (lbs)
1	13695.54	0.00
2	13994.89	400.00

Gamma Calibration MCG-C 208 Field Calibration on 23-SEP-2012 00:17

	Measured	Calibrated (API)
Background	67	46

Calibrator (Gross)	1106	771
Calibrator (Net)	1039	725

Gamma Constants MCG-C 208			Last Edited on 23-SEP-2012,04:00
Gamma Calibrator Number	GR38		
Mud Density	1.10	gm/cc	
Caliper Source for Processing	Density Caliper		
Tool Position	Eccentred		
Concentration of KCl	0.00	kppm	

SP Calibration MCG-C 208			Field Calibration on 03-AUG-2012 22:37
	Measured	Calibrated (mV)	
Reference 1	100.2	101.0	
Reference 2	-101.3	-101.0	

High Resolution Temperature Calibration MCG-C 208			Field Calibration on 03-AUG-2012,16:18
	Measured	Calibrated(Deg F)	
Lower	50.00	50.00	
Upper	75.00	75.00	

High Resolution Temperature Constants MCG-C 208			Last Edited on
Pre-filter Length	11		

Caliper Calibration MML-A 4			Base Calibration on 27-AUG-2012 09:13 Field Calibration on 23-SEP-2012 00:13
Base Calibration			
Reading No	Measured	Calibrator Size (in)	
1	15511	5.98	
2	18793	7.97	
3	22115	9.86	
4	26057	11.92	
5	0	0.00	
6	N/A	N/A	
Field Calibration			
	Measured Caliper (in)	Actual Caliper (in)	
	5.94	5.98	

Micro Normal and Micro Inverse Calibration MML-A 4			Base Calibration on 27-AUG-2012 09:21 Field Check on 23-SEP-2012 00:11
Base Calibration			
Channel	Resistor 1	Resistor 2	Calibrated (ohm-m)
			Resistor 1 Resistor 2
Micro Normal	12.2	60.2	5.0 25.0
Micro Inverse	15.7	78.5	5.0 25.0
Channel	Base Check (ohm-m)		Field Check (ohm-m)
Micro Normal	62.9		62.8
Micro Inverse	48.2		48.2

Micro Normal and Micro Inverse Constants MML-A 4			Last Edited on 15-SEP-2012,14:38
Pad Type	8-12 in Soft Rubber Inflatable 006-9011-159		
Micro Normal K Factor	1.0000		
Micro Inverse K Factor	1.0000		
Standoff Offset	N/A		inches

Neutron Calibration MDN-A.B 65			Base Calibration on 28-AUG-2012 10:35 Field Check on 23-SEP-2012 00:21
Base Calibration			
	Measured		Calibrated (cps)
	Near	Far	Near Far
Ratio	3134	97	3714 110
	32.240		33.764
Field Calibrator at Base			Calibrated (cps)
Ratio			1654 2401
			0.689
Field Check			Calibrated (cps)

Field Check	Ratio	Calibrated (cps)	
		1650	2376
			0.695
Neutron Constants MDN-A.B 65			Last Edited on 23-SEP-2012,00:17
Neutron Source Id	PN-521		
Neutron Jig Number	5824NE		
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	Constant Value		
Temperature	68.00	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-B.J 352			Base Calibration on 27-AUG-2012 14:50
			Field Check on 23-SEP-2012 00:03
Base Calibration			
	Measured	Calibrated (ohm-m)	
Reference 1	0.0	0.0	
Reference 2	963.9	126.8	
Base Check		281.2	
Field Check		281.5	

FE Constants MFE-B.J 352			Last Edited on 18-SEP-2012,12:42
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	

Induction Calibration MAI-A.A 45					Base Calibration on 26-JUL-2012,09:22
					Field Check on 23-SEP-2012 00:02
Base Calibration					
Test Loop Calibration		Measured		Calibrated (mmho/m)	
Channel	Low	High	Low	High	
1	14.4	472.6	9.3	966.2	
2	5.7	374.0	7.6	821.4	
3	3.4	261.2	5.2	566.0	
4	2.5	133.9	2.6	279.2	
Array Temperature	78.4		Deg F		
Channel	Base Check (mmho/m)		Field Check (mmho/m)		
	Low	High	Low	High	
1	0.0	0.0	19.0	3851.7	
2	0.0	0.0	31.8	3629.6	
3	0.0	0.0	28.7	3049.8	
4	0.0	0.0	18.3	2079.4	
Deep	0.0	0.0	16.1	1911.6	
Medium	0.0	0.0	42.5	4061.2	
Shallow	0.0	0.0	49.7	5483.3	
Array Temperature	0.0		70.6 Deg F		

Induction Constants MAI-A.A 45			Last Edited on 22-SEP-2012,23:59
Induction Model	RTAP-WBM		

Caliper for Borehole Corr.	Density Caliper		
Hole Size for Borehole Correction	2.500	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		

High Resolution Temperature Calibration MAI-A.A 45

Field Calibration on 26-JUL-2012,09:09

	Measured	Calibrated(Deg F)
Lower	50.00	50.00
Upper	75.00	75.00

High Resolution Temperature Constants MAI-A.A 45

Last Edited on

Pre-filter Length	11
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Caliper Calibration MPD-B 31

Base Calibration on 28-AUG-2012 11:03

Field Calibration on 23-SEP-2012 00:05

Base Calibration		
Reading No	Measured	Calibrator Size (in)
1	18576	3.99
2	27056	5.98
3	35613	7.97
4	44032	9.86
5	53360	11.92
6	N/A	N/A

Field Calibration		
	Measured Caliper (in)	Actual Caliper (in)
	5.96	5.98

Photo Density Calibration MPD-B 31

Base Calibration on 28-AUG-2012 11:22

Field Check on 23-SEP-2012 00:10

Density Calibration				
Base Calibration				
	Measured	Calibrated (sdu)		
	Near	Far	Near	Far
Reference 1	46103	23728	59556	30836
Reference 2	19270	1960	24941	2541

Field Check at Base				
	688.3	844.7		

Field Check

687.8 848.7

PE Calibration

Base Calibration		Measured		Calibrated
	WS	WH	Ratio	Ratio
Background	127	604		
Reference 1	18457	45978	0.404	0.371
Reference 2	5504	19174	0.290	0.272
Field Check at Base				
	127.0	604.2		
Field Check				
	127.2	602.6		

Density Constants MPD-B 31

Last Edited on 23-SEP-2012,04:00

Density Source Id	254	
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	1.10	gm/cc
Mud Density Z/A Multiplier	1.13	
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 13.02.6600\Data\Shakespeare Peterson #2-8\Shakespeare Peterson #2-8 Main.dta

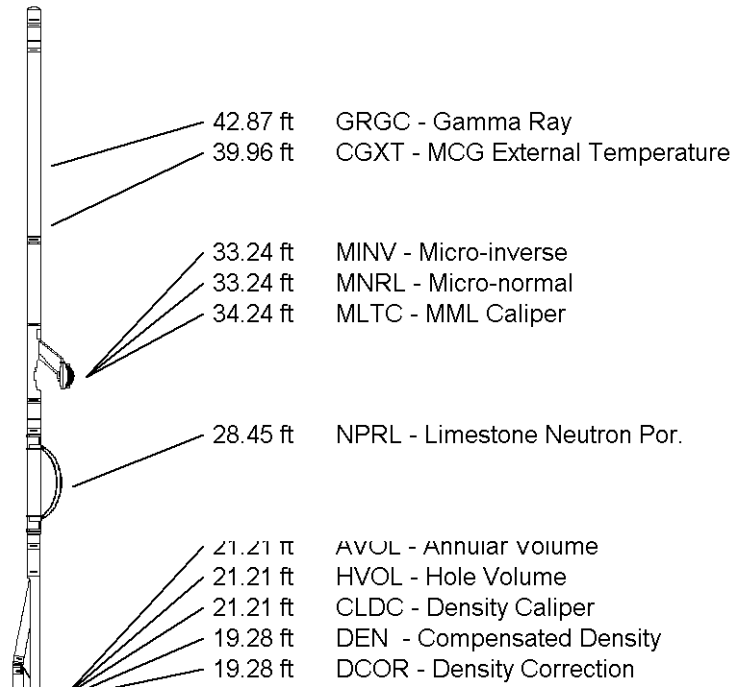
3/8" Triple Cone Cable Head (MCB C A)
MCB-C.A 5 LG: 1.58 ft WT: 15.4 lb OD: 2.24 in

Compact Comms Gamma
MCG-C 208 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Micro-log
MML-A 4 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

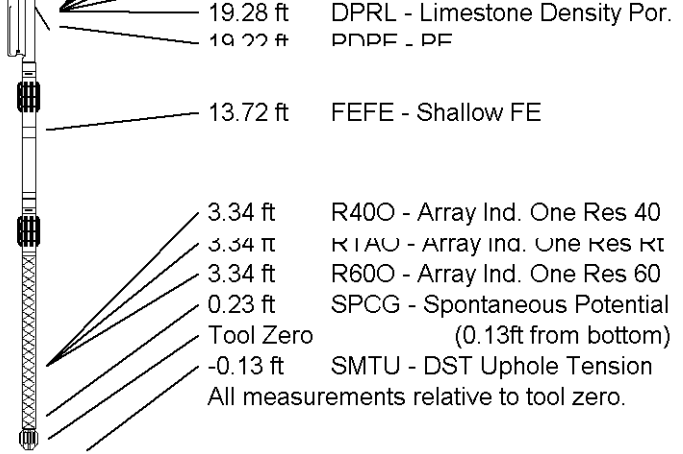
Compact Density/Caliper
MPD-B 31 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in



Compact Focused Electric
MFE-B.J 352 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

Compact Induction
MAI-A.A 45 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 49.73 ft Weight: 399.0 lb



COMPANY	SHAKESPEARE OIL COMPANY, INC.				
WELL	PETERSON #2-8				
FIELD	STRATFORD WEST				
PROVINCE/COUNTY	LOGAN				
COUNTRY/STATE	U.S.A. / KANSAS				
Elevation Kelly Bushing	2981.00	feet	First Reading	4682.00	feet
Elevation Drill Floor	2979.00	feet	Depth Driller	4680.00	feet
Elevation Ground Level	2971.00	feet	Depth Logger	4685.00	feet

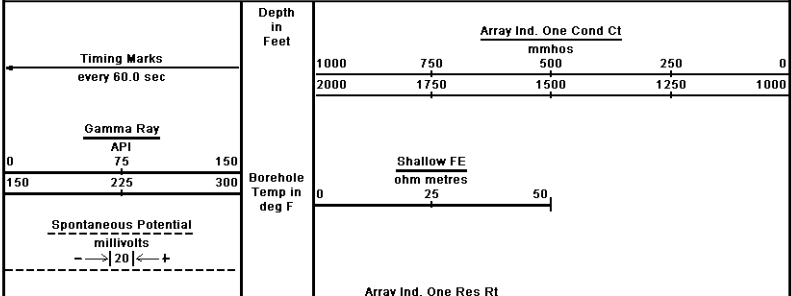


ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG

Weatherford[®]

Weatherford		ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG	
COMPANY	SHAKESPEARE OIL COMPANY, INC.	WELL	PETERSON #2-8
FIELD	STRATFORD WEST	PROVINCE/COUNTY	LOGAN
COUNTRY/STATE	U.S.A. / KANSAS	LOCATION	850' FSL & 1750' FWL SW/4 SE NW SE SW
LOG NUMBER	15-09-21095	DATE	23-SEP-2012
PERMIT NUMBER	15-09-21095	LOG MEASURED FROM	K.B @ 10 FEET
PERMANENT DATUM	G.L., Elevation 2971 feet	LOG MEASURED FROM	K.B @ 10 FEET
DATE	23-SEP-2012	LOG MEASURED FROM	K.B @ 10 FEET
DEPTH DRILLER	4680.00	DEPTH DRILLER	4680.00
DEPTH LOGGER	4685.00	DEPTH LOGGER	4685.00
LAST READING	2227.00	LAST READING	2227.00
CASING DRILLER	2225.00	CASING DRILLER	2225.00
CASING LOGGER	2225.00	CASING LOGGER	2225.00
BI SIZE	7.875	BI SIZE	7.875
HOLE FLUID TYPE	CHEMICAL	HOLE FLUID TYPE	CHEMICAL
DENSITY / VISCOSITY	9.20 / 1005g	DENSITY / VISCOSITY	9.20 / 1005g
PH / FLUID LOSS	11.00	PH / FLUID LOSS	11.00
SAMPLE SOURCE	FLOWLINE	SAMPLE SOURCE	FLOWLINE
RTM @ MEASURED TEMP	1.14 @ 93.0	RTM @ MEASURED TEMP	1.14 @ 93.0
RTM @ MEASURED TEMP	0.91 @ 93.0	RTM @ MEASURED TEMP	0.91 @ 93.0
RTM @ MEASURED TEMP	1.37 @ 93.0	RTM @ MEASURED TEMP	1.37 @ 93.0
SOURCE FMT / FMC	CALC	SOURCE FMT / FMC	CALC
TIME @ BHT	0.92 @ 115.0	TIME @ BHT	0.92 @ 115.0
TIME SINCE CIRCULATION	3 HOURS	TIME SINCE CIRCULATION	3 HOURS
MAX RECORDED TEMP	115.00	MAX RECORDED TEMP	115.00
EQUIPMENT / BASE	COMPACT	EQUIPMENT / BASE	COMPACT
RECORDED BY	R. HOFFMAN	RECORDED BY	R. HOFFMAN
WITNESSED BY	STEVE DAVIS	WITNESSED BY	STEVE DAVIS
LOG #	3538923	LOG #	3538923

1 INCH MAIN
Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 23-SEP-2012 08:21
Filename: C:\Minimus 13.02.6600\Data\Shakespeare Peterson #2-8\Shakespeare Peterson #2-8 Main.dta
Recorded on 23-SEP-2012 06:12
System Versions: Logged with 13.02.6600 Plotted with 13.02.6600



DST Uphole Tension
pounds

Replay
Scale
1:600

ohm metres
0 25 50

200
Casing
Shoe

91°

300

93°

400

94°

500

94°

600

94°

700

95°

800

96°

900

97°

1000

98°

1100

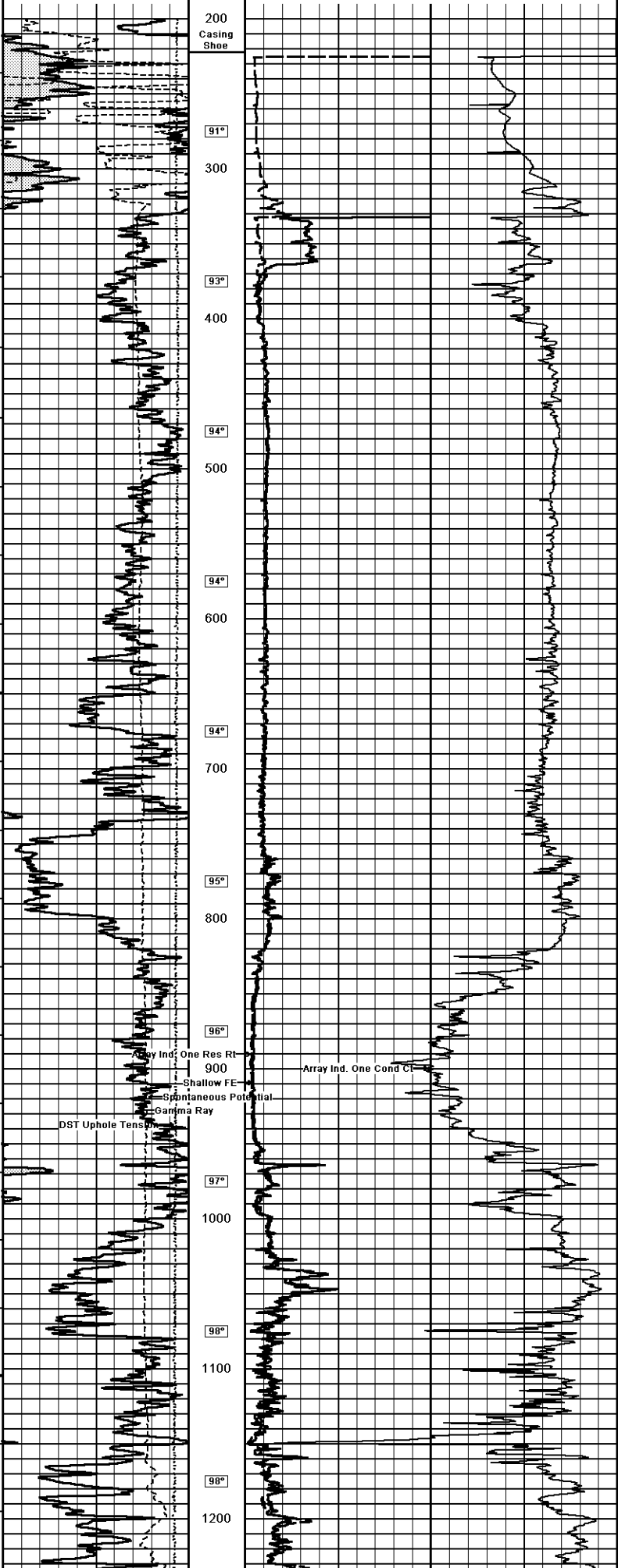
98°

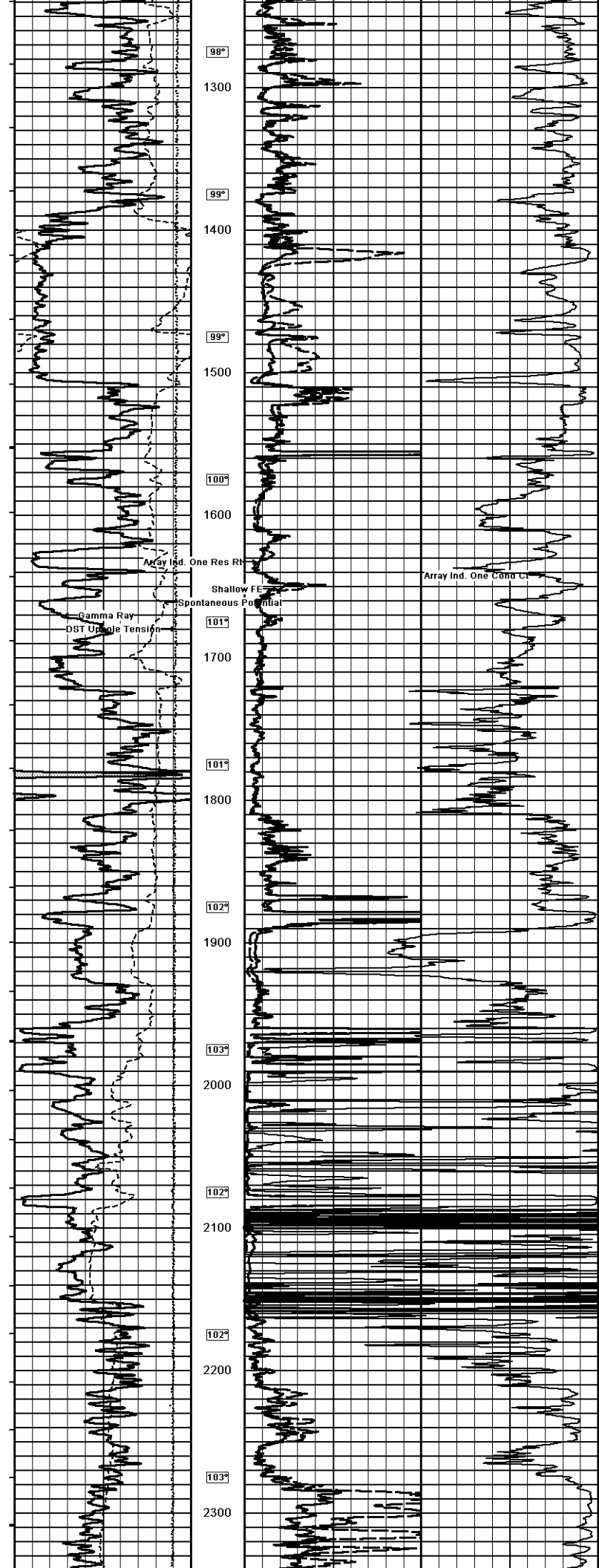
1200

Array Ind. One Res Rt
Shallow FE
Spontaneous Potential
Gamma Ray

Array Ind. One Cond Cl

DST Uphole Tension





98°

99°

99°

100°

101°

101°

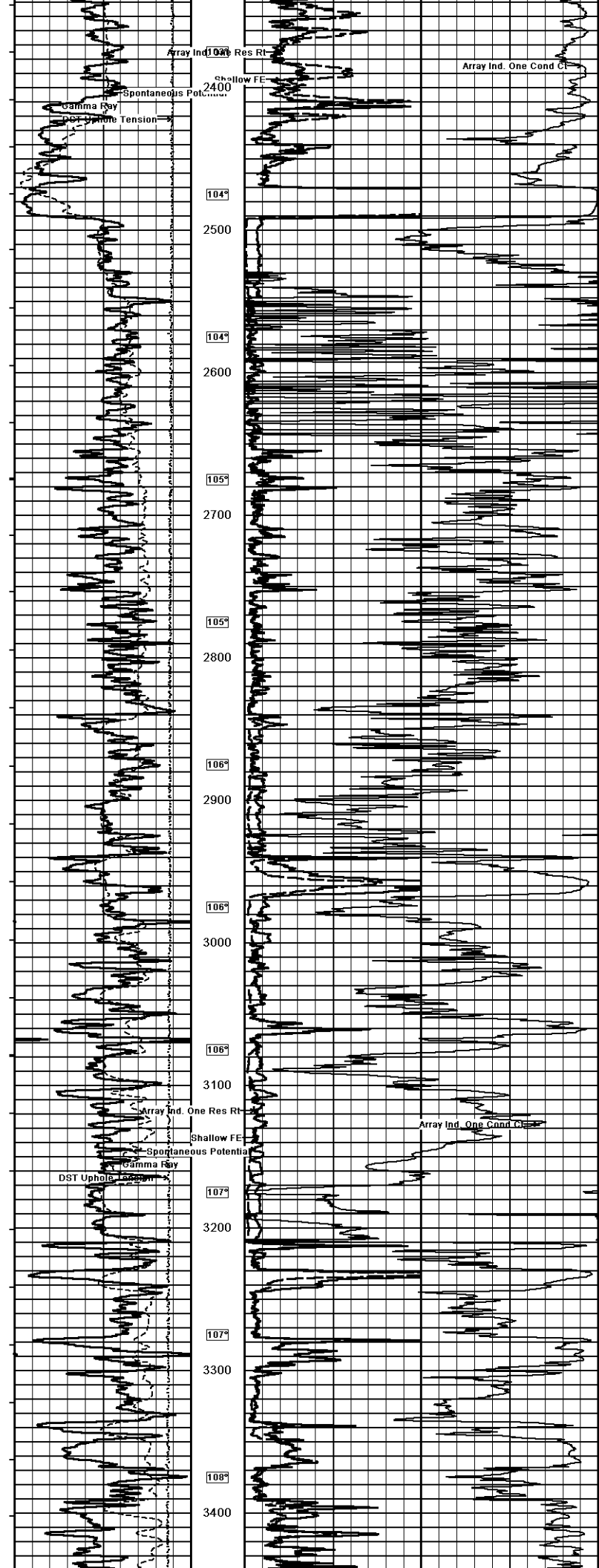
102°

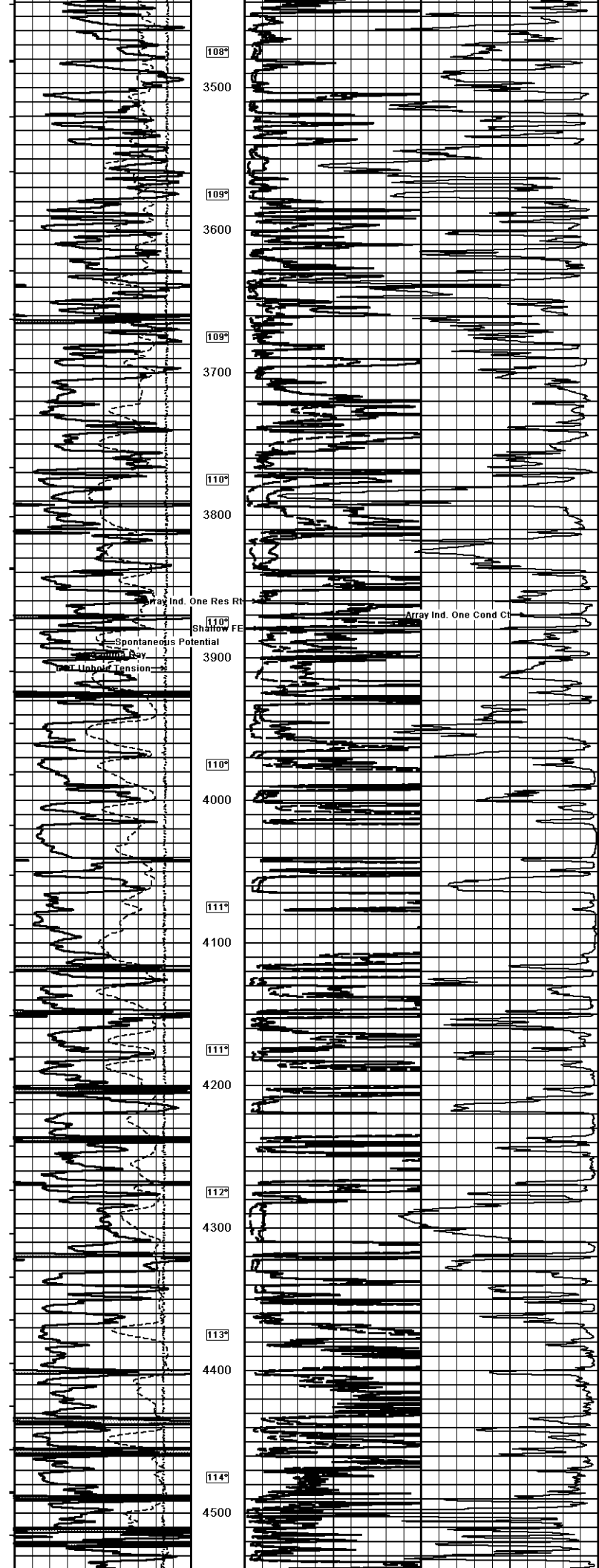
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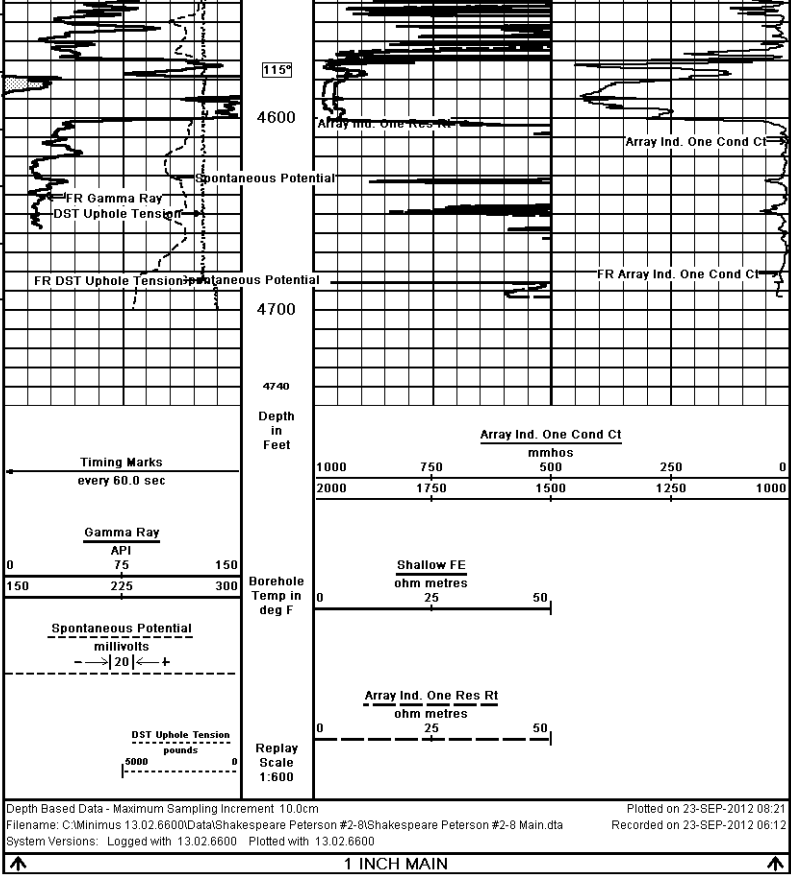
102°

102°


103°







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COUNTRY/STATE	U.S.A. / KANSAS				
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SHALLOW FOCUSED
ELECTRIC LOG