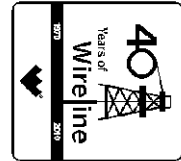




Weatherford[®]

ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG

COMPANY FUTURE PETROLEUM COMPANY LLC
 WELL WEST MADDIX UNIT NO. 3
 FIELD WEST MADDIX UNIT
 PROVINCE/COUNTY COWLEY
 COUNTRY/STATE USA/KANSAS
 LOCATION 1962' FNL & 1803' FEL



SEC TWP RGE Other Services
 10 33S 5E MPD/ MDN
 API Number 15-035-24421 MML
 Permit Number

Permanent Datum G.L. Elevation 1270 feet
 Log Measured From K.B 10 FEET above Permanent Datum
 Drilling Measured From K.B

Elevations: feet
 KB 1280.00
 DF 1278.00
 GL 1270.00

Date	25-JUN-2011
Run Number	ONE
Depth Driller	3204.00 feet
Depth Logger	3206.00 feet
First Reading	3203.00 feet
Last Reading	200.00 feet
Casing Driller	213.00 feet
Casing Logger	213.00 feet
Bit Size	7.875 inches
Hole Fluid Type	CHEMICAL
Density / Viscosity	9.10 g/c3 65.00 CP
PH / Fluid Loss	9.00 9.20 ml/30Min
Sample Source	FLOWLINE
Rm @ Measured Temp	1.40 @ 94.0 ohm-m
Rmf @ Measured Temp	1.20 @ 94.0 ohm-m
Rmc @ Measured Temp	2.52 @ 94.0 ohm-m
Source Rmf / Rmc	CALC CALC
Rm @ BHT	0.82 @109.0 ohm-m
Time Since Circulation	4 HOURS
Max Recorded Temp	109.00 deg F
Equipment Name	COMPACT
Equipment / Base	13226 OKC
Recorded By	MIKE GARRISON
Witnessed By	TERRY MADDEN

BOREHOLE RECORD Last Edited: 25-JUN-2011 17:32

Bit Size inches 7.875	Depth From feet 214.00	Depth To feet 3206.00
-----------------------------	------------------------------	-----------------------------

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	8.625	0.00	213.00	32.00

REMARKS

TOOLS RAN: SHA 45, MCG 31, MML 1, MDN 10, MPD 3, MFE 65, MAI 11 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 200' = 1380CU.FT.
 ANNULAR HOLE VOLUME WITH 4.5 INCH PRODUCTION CASING FROM TD TO 200' = 1060CU.FT.

SERVICE ORDER # 3531727
 RIG: VAL 3

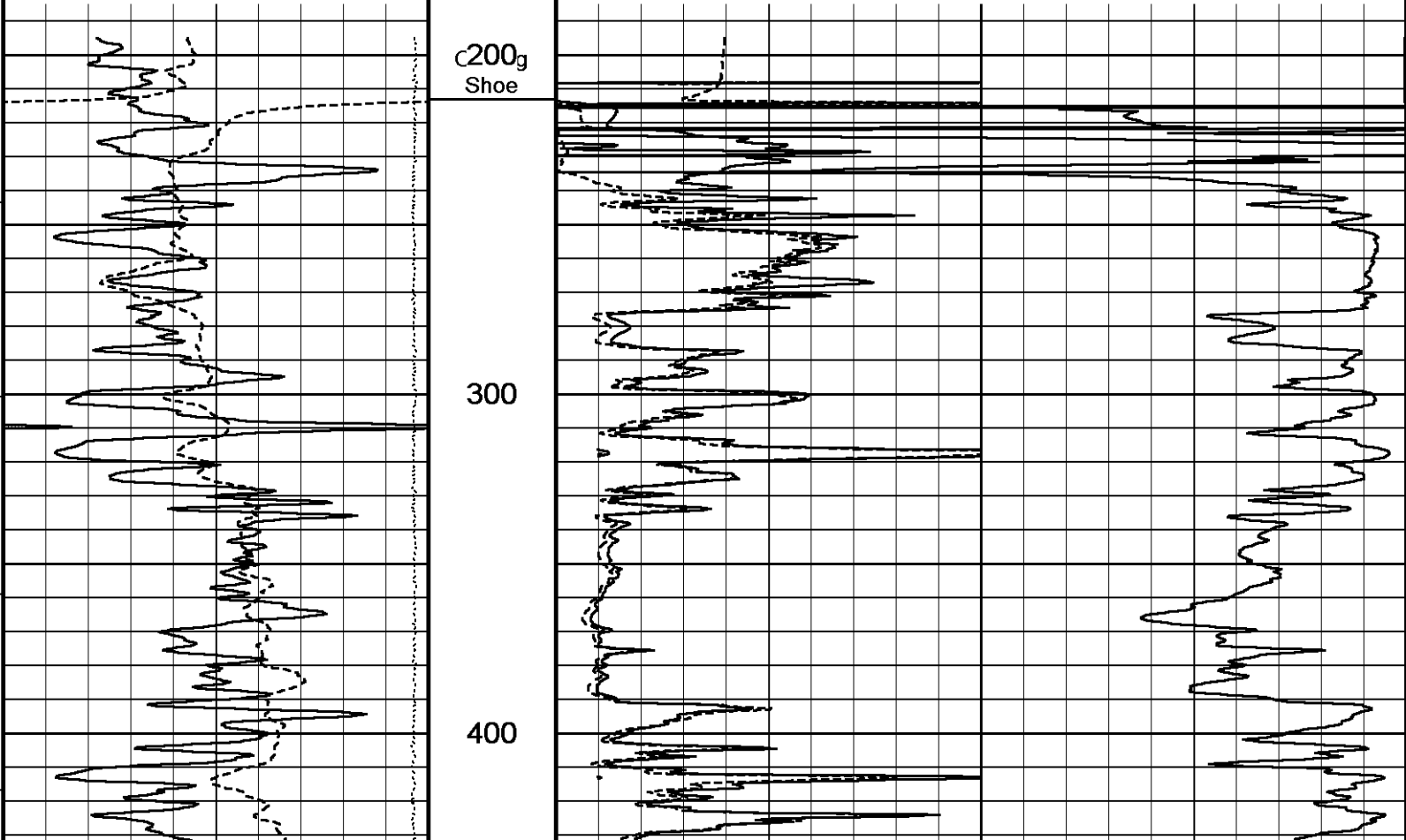
ENGINEER: MIKE GARRISON
 OPERATOR(S): PHILLIP BURGER

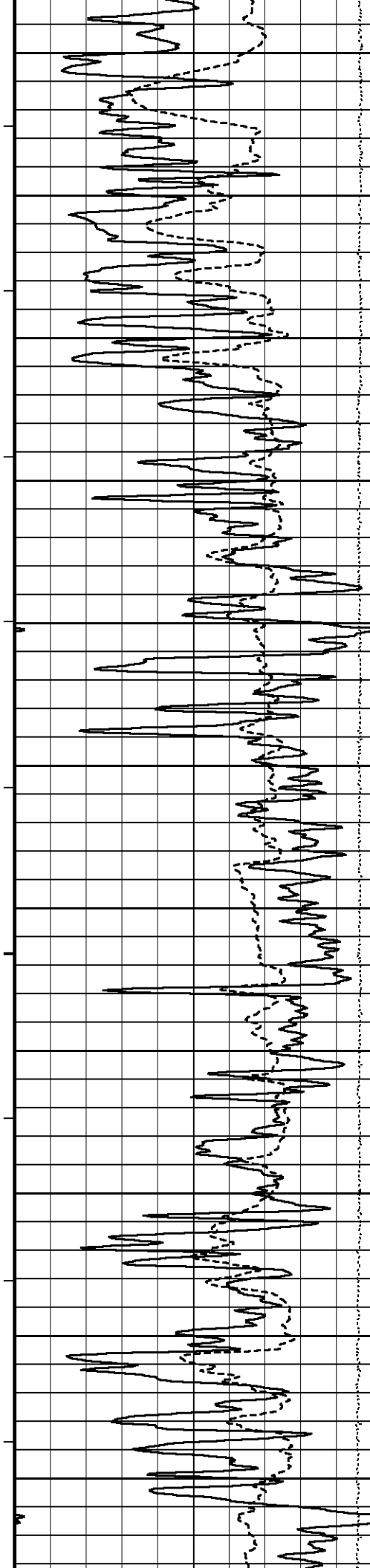
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, 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 25-JUN-2011 18:19
 Filename: C:\Program Files\Weatherford\WLS 11.02\Data\FUTURE(WEST MADDIX...WLMU3_003.dta Recorded on 25-JUN-2011 16:58
 System Versions: Logged with 11.02.2782 Plotted with 11.02.2782

<p>Timing Marks every 60.0 sec</p> <hr/> <p>Gamma Ray API</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">0</td> <td style="width: 33%;">75</td> <td style="width: 33%;">150</td> </tr> <tr> <td>150</td> <td>225</td> <td>300</td> </tr> </table> <hr/> <p>Spontaneous Potential millivolts - -> 20 <- +</p> <hr style="border-top: 1px dashed black;"/> <p>DST Uphole Tension pounds</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">10000</td> <td style="width: 33%;"></td> <td style="width: 33%;">0</td> </tr> </table>	0	75	150	150	225	300	10000		0	<p>Depth in Feet</p>	<p style="text-align: center;"><u>Array Ind One Cond Ct</u> mmhos</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">1000</td> <td style="width: 20%;">750</td> <td style="width: 20%;">500</td> <td style="width: 20%;">250</td> <td style="width: 20%;">0</td> </tr> <tr> <td>2000</td> <td>1750</td> <td>1500</td> <td>1250</td> <td>1000</td> </tr> </table> <hr/> <p style="text-align: center;"><u>Shallow FE</u> ohm metres</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">0</td> <td style="width: 33%;">25</td> <td style="width: 33%;">50</td> </tr> <tr> <td>0</td> <td>250</td> <td>500</td> </tr> </table> <hr style="border-top: 1px dashed black;"/> <p style="text-align: center;"><u>Array Ind One Res Rt</u> ohm metres</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">0</td> <td style="width: 33%;">25</td> <td style="width: 33%;">50</td> </tr> <tr> <td>0</td> <td>250</td> <td>500</td> </tr> </table> <hr style="border-top: 1px dashed black;"/> <p style="text-align: center;">Replay Scale 1:600</p>	1000	750	500	250	0	2000	1750	1500	1250	1000	0	25	50	0	250	500	0	25	50	0	250	500
0	75	150																															
150	225	300																															
10000		0																															
1000	750	500	250	0																													
2000	1750	1500	1250	1000																													
0	25	50																															
0	250	500																															
0	25	50																															
0	250	500																															





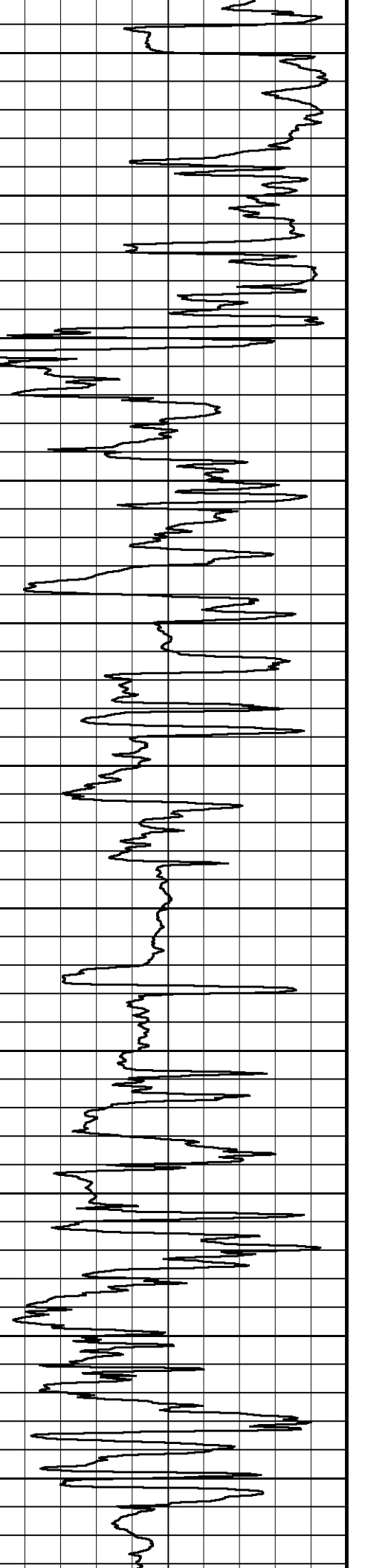
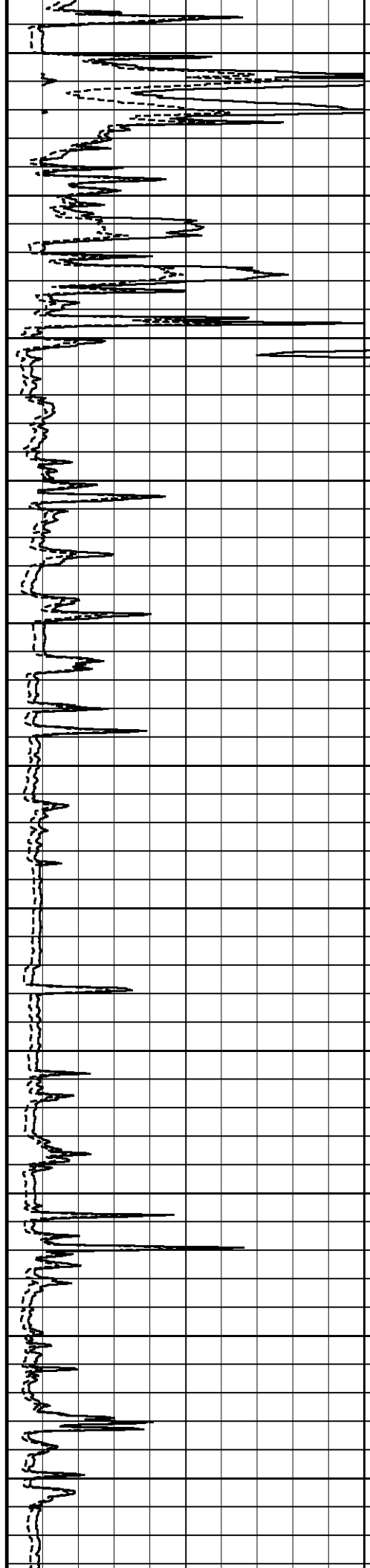
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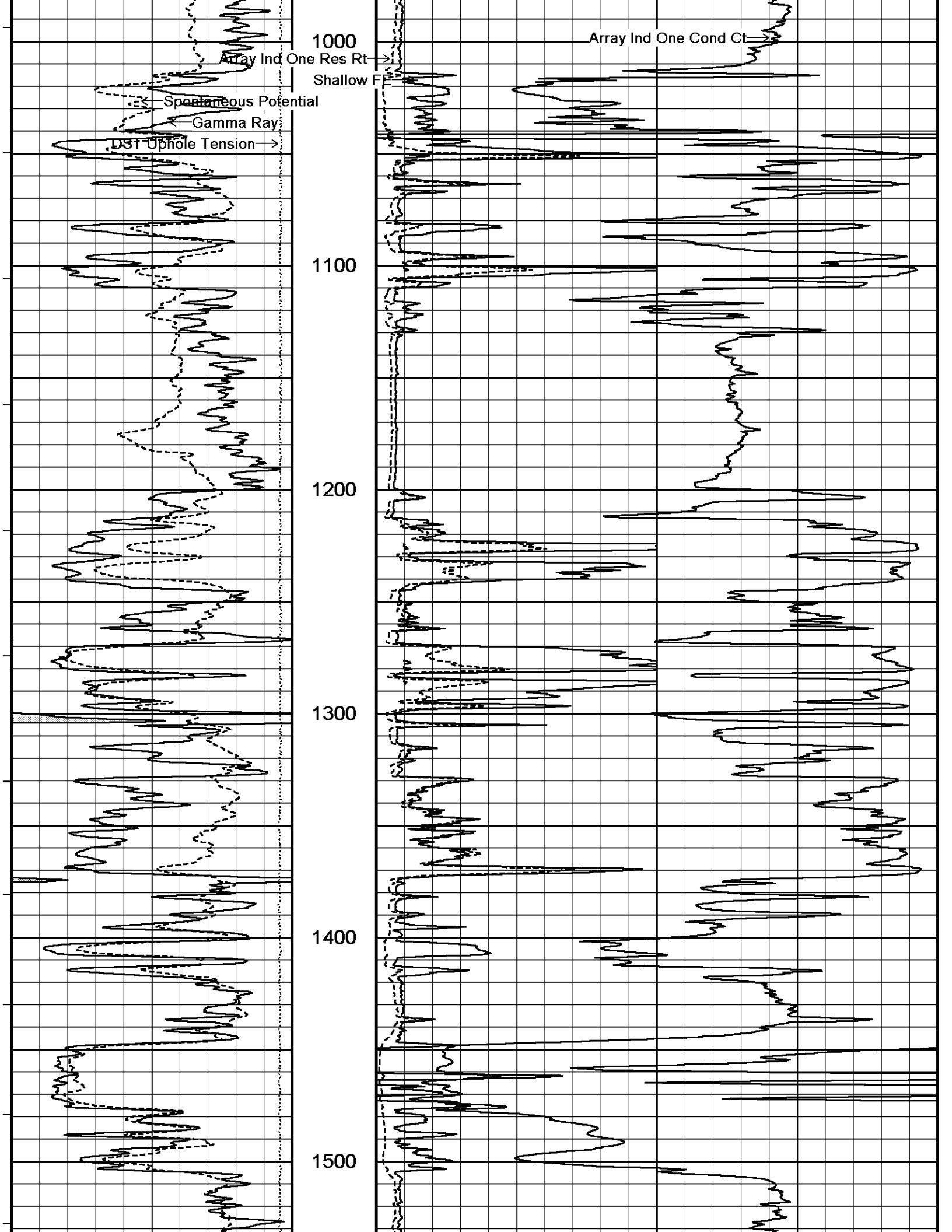
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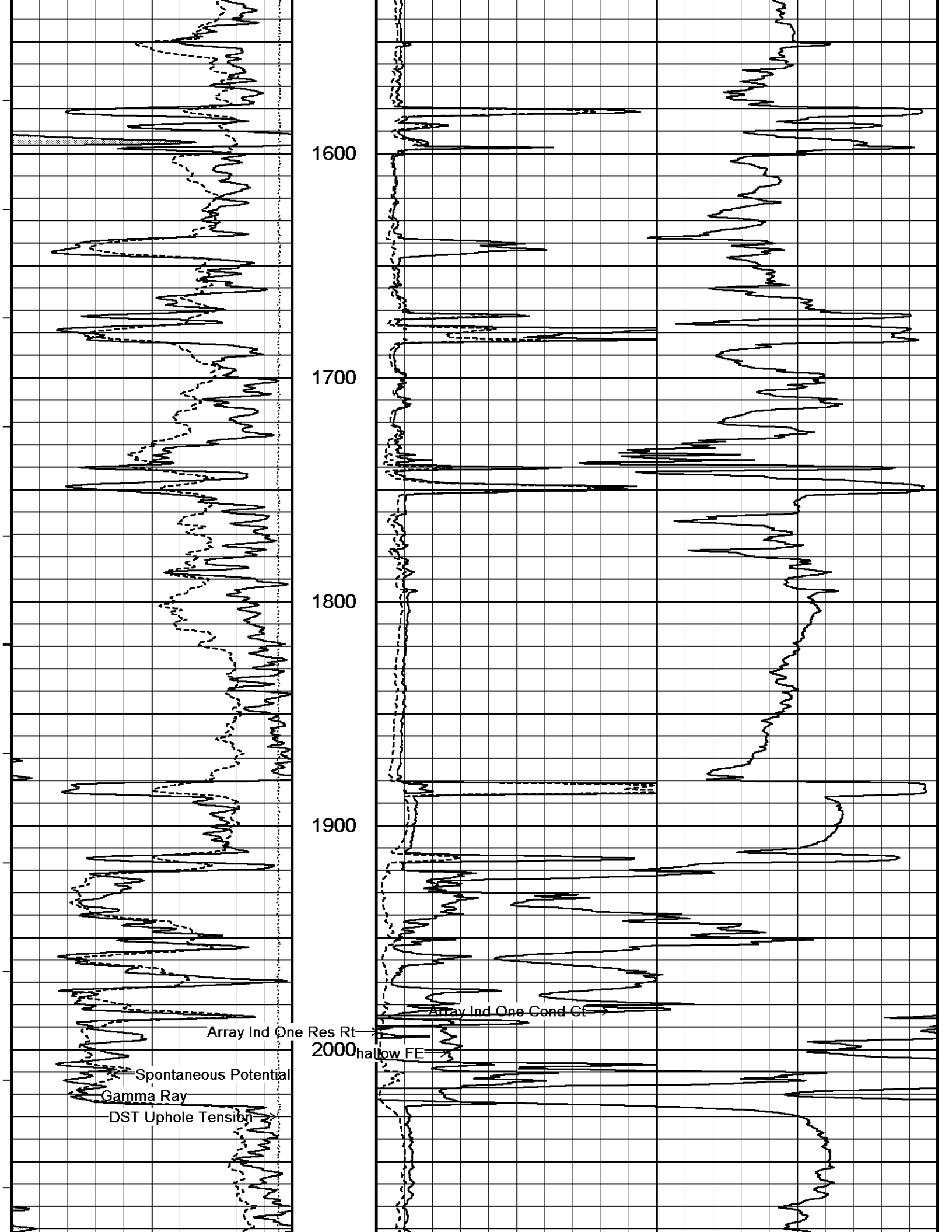
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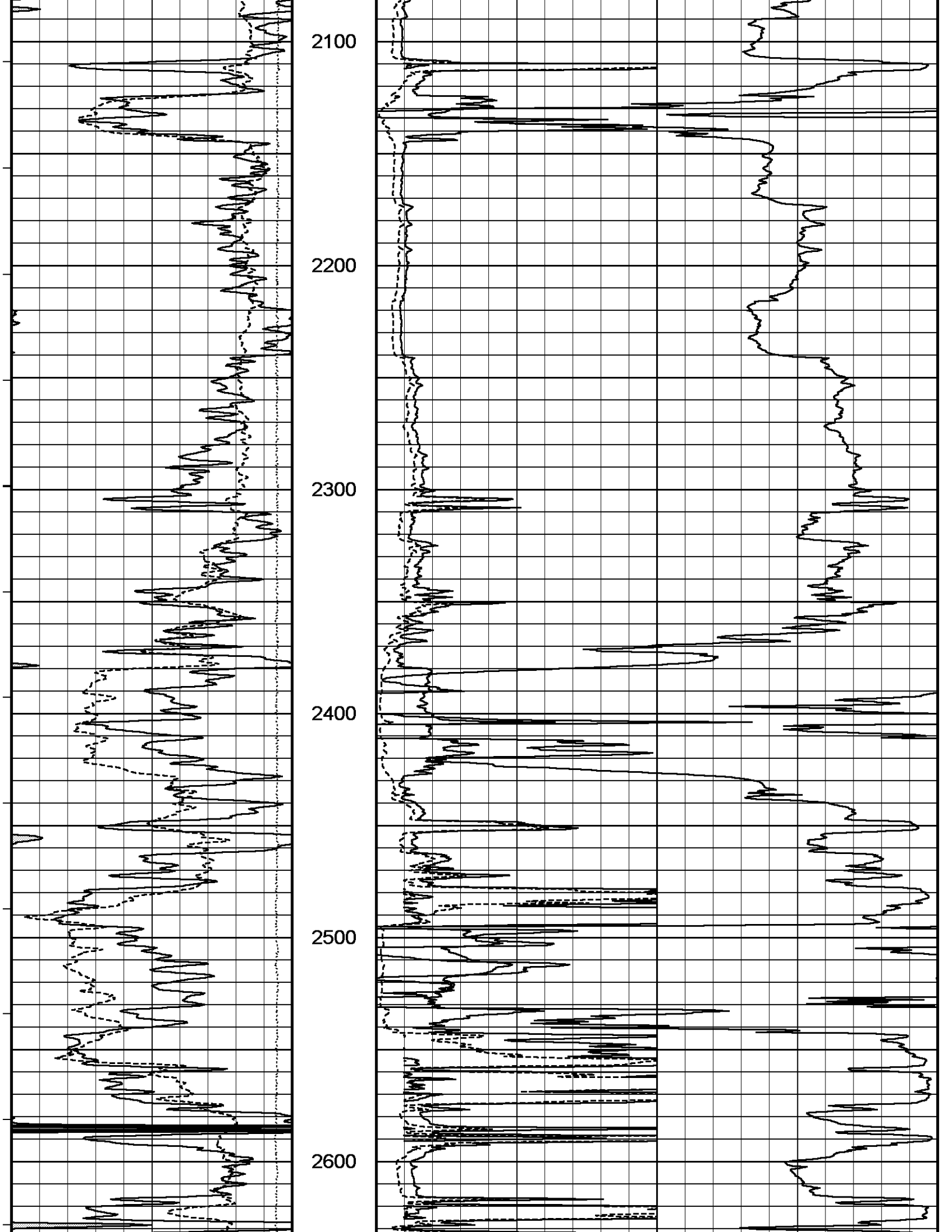
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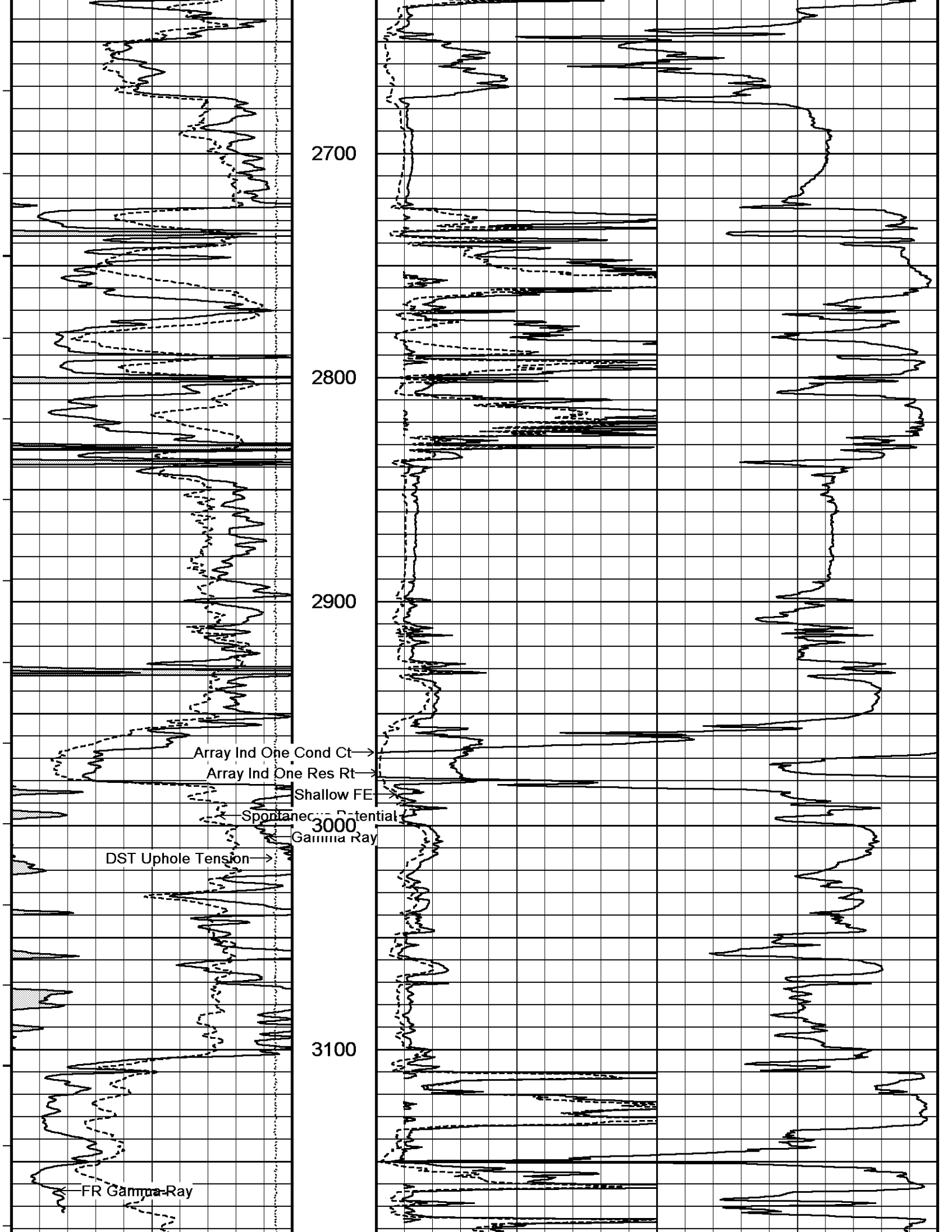
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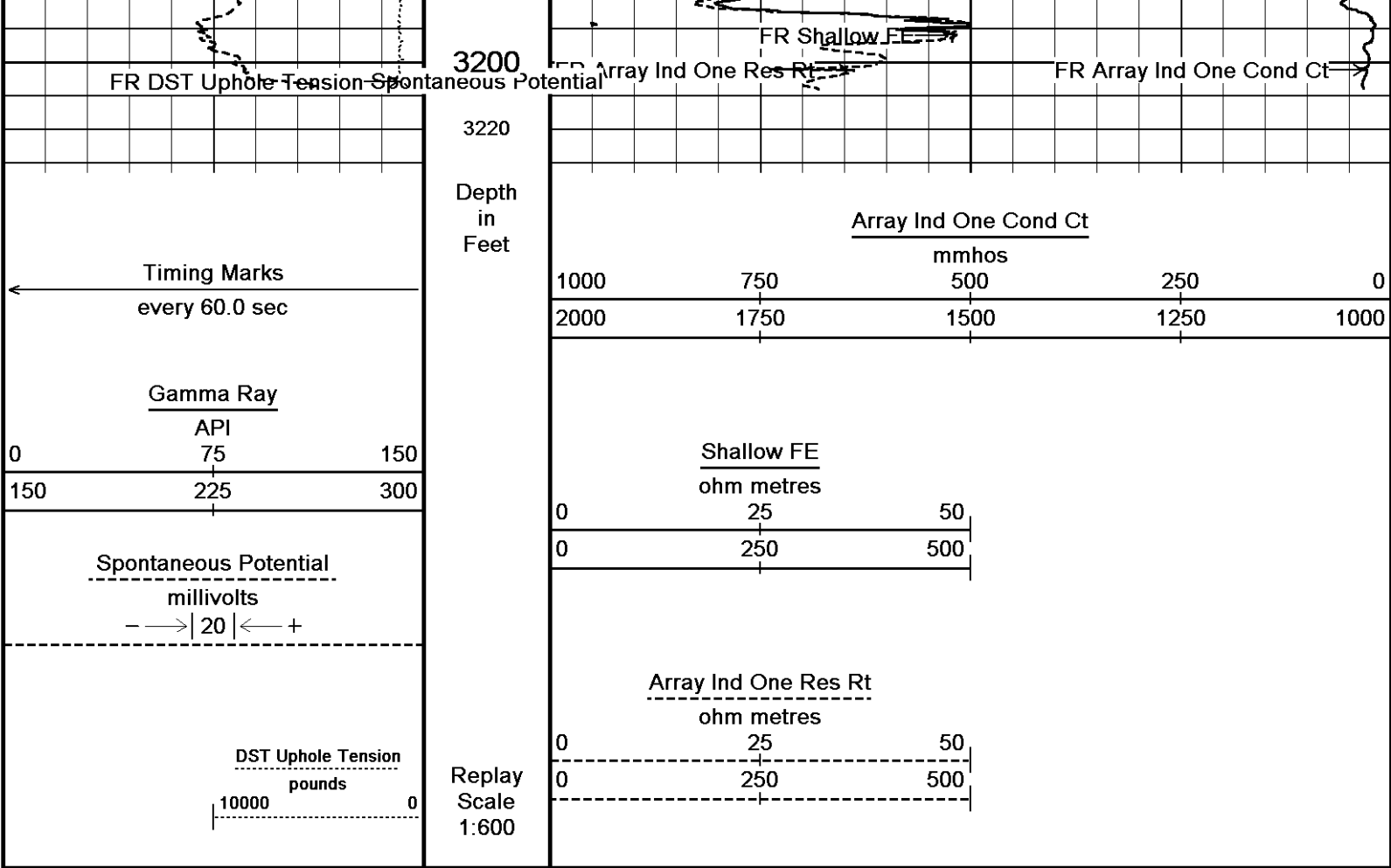










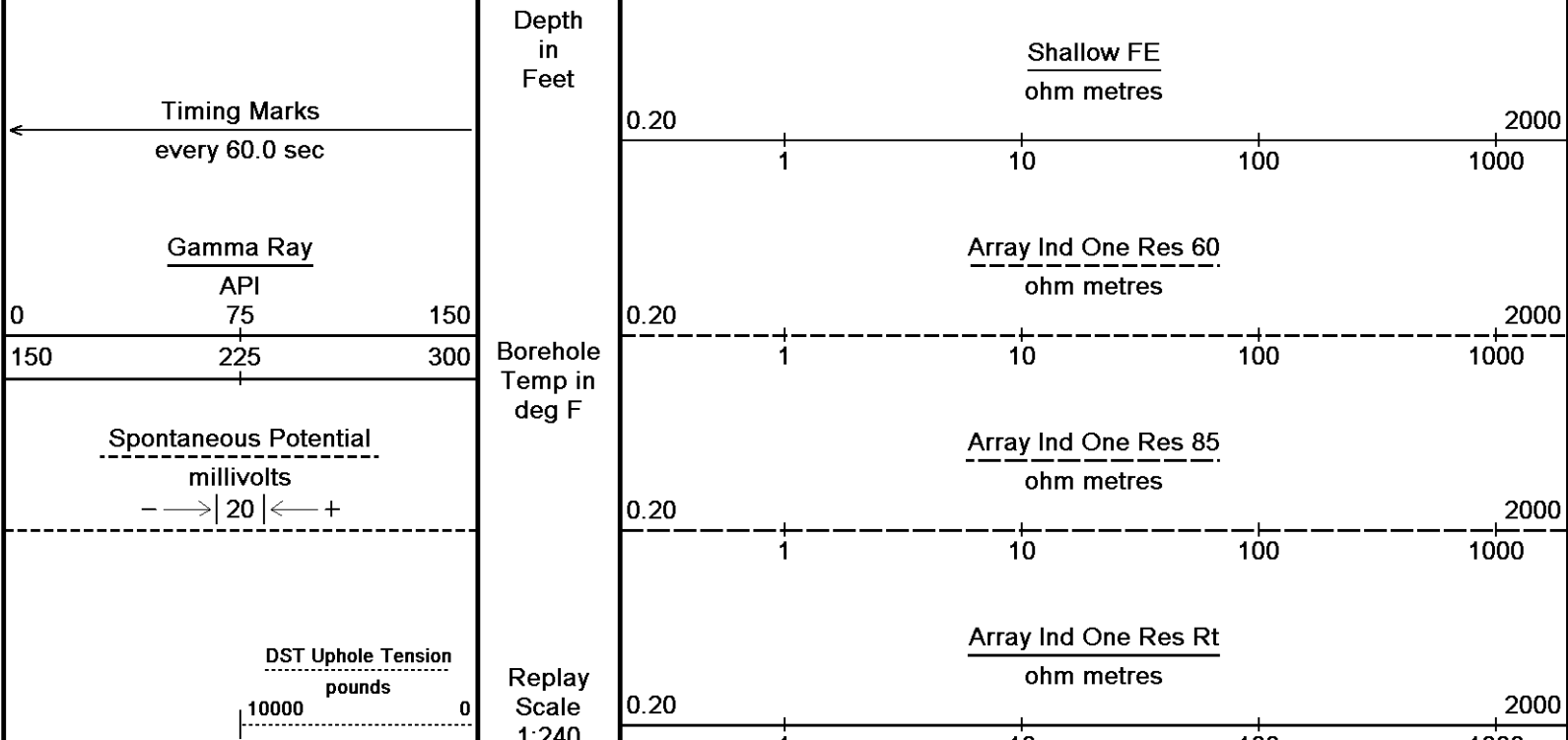


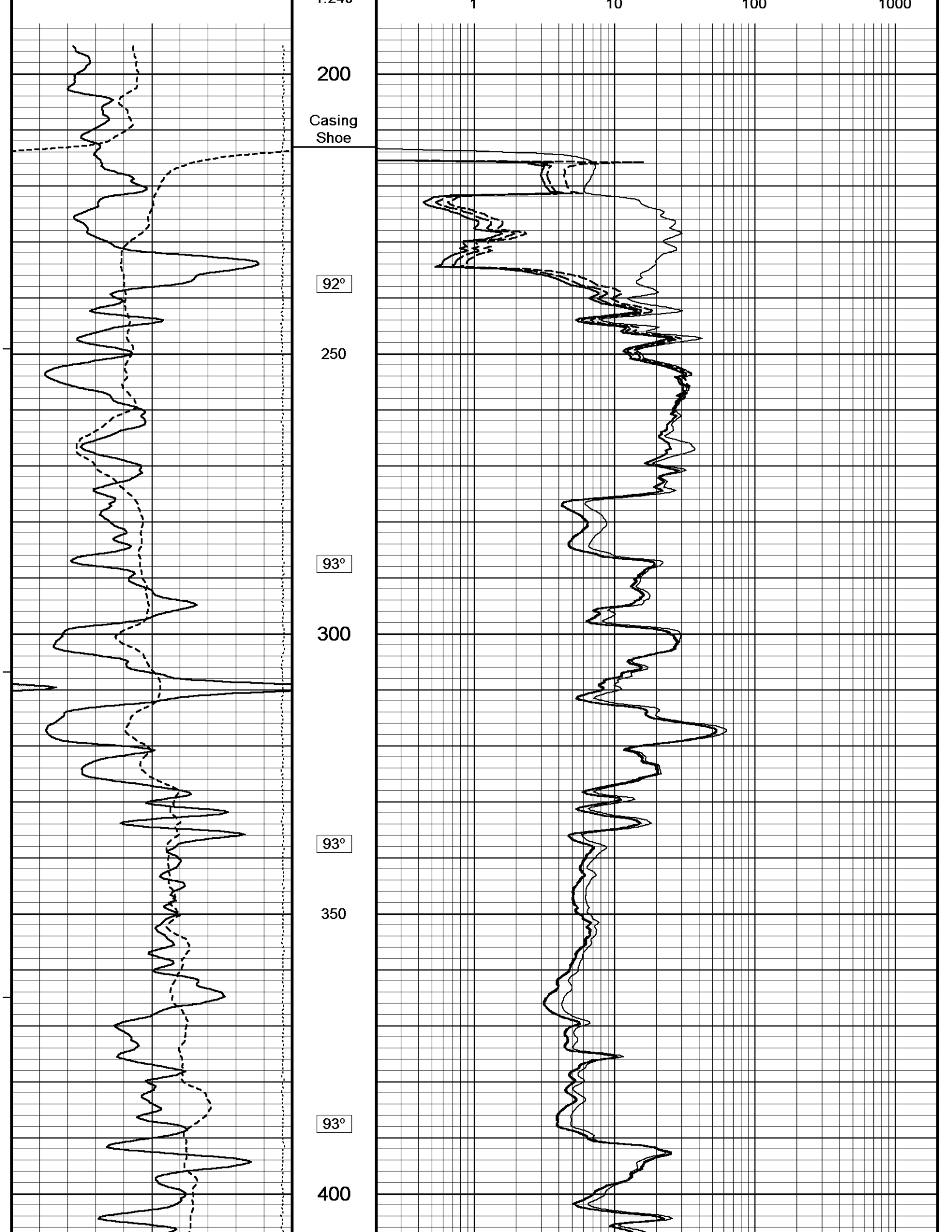
Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 25-JUN-2011 18:19
 Filename: C:\Program Files\Weatherford\WLS 11.02\Data\FUTURE(WEST MADDIX...WMMU3_003.dta Recorded on 25-JUN-2011 16:58
 System Versions: Logged with 11.02.2782 Plotted with 11.02.2782

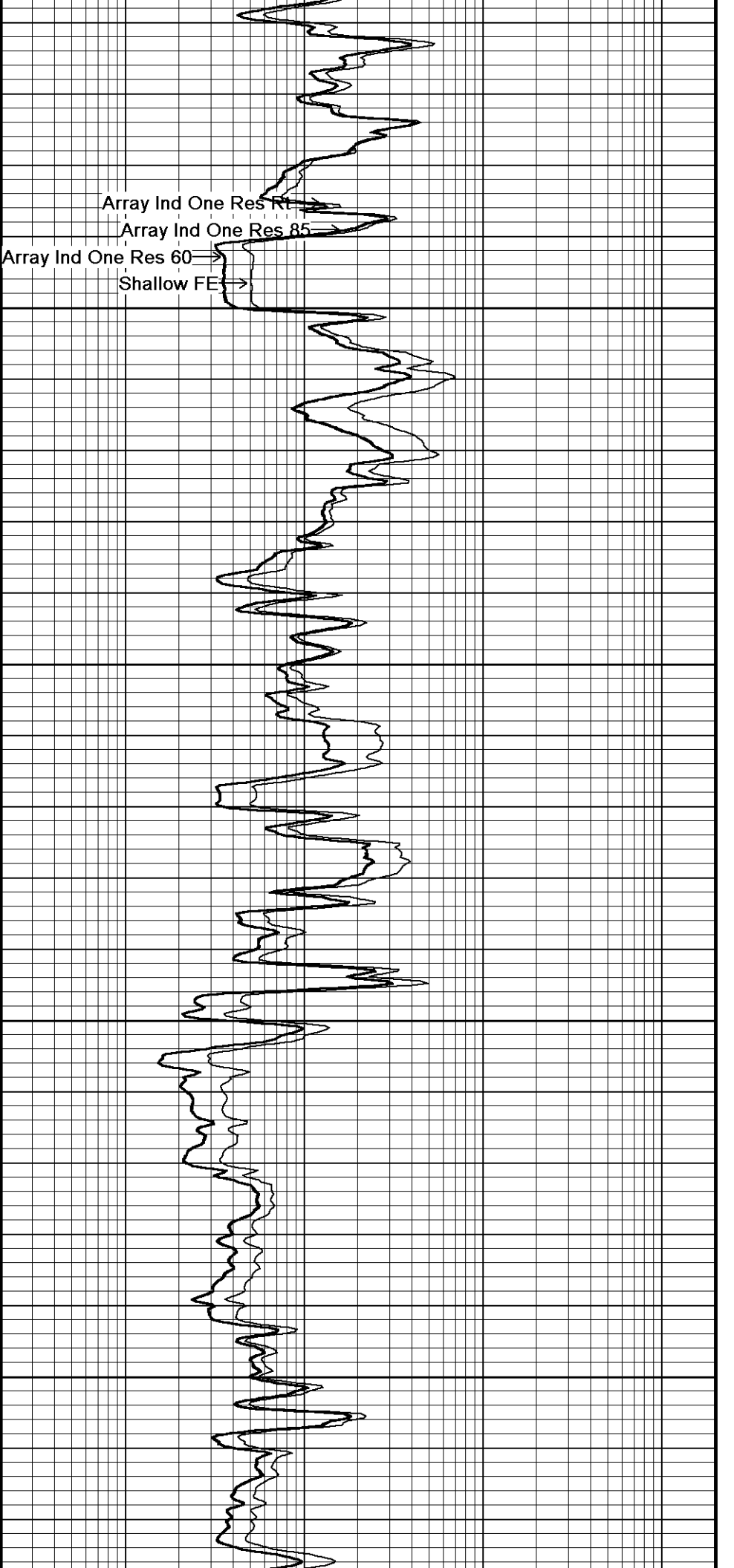
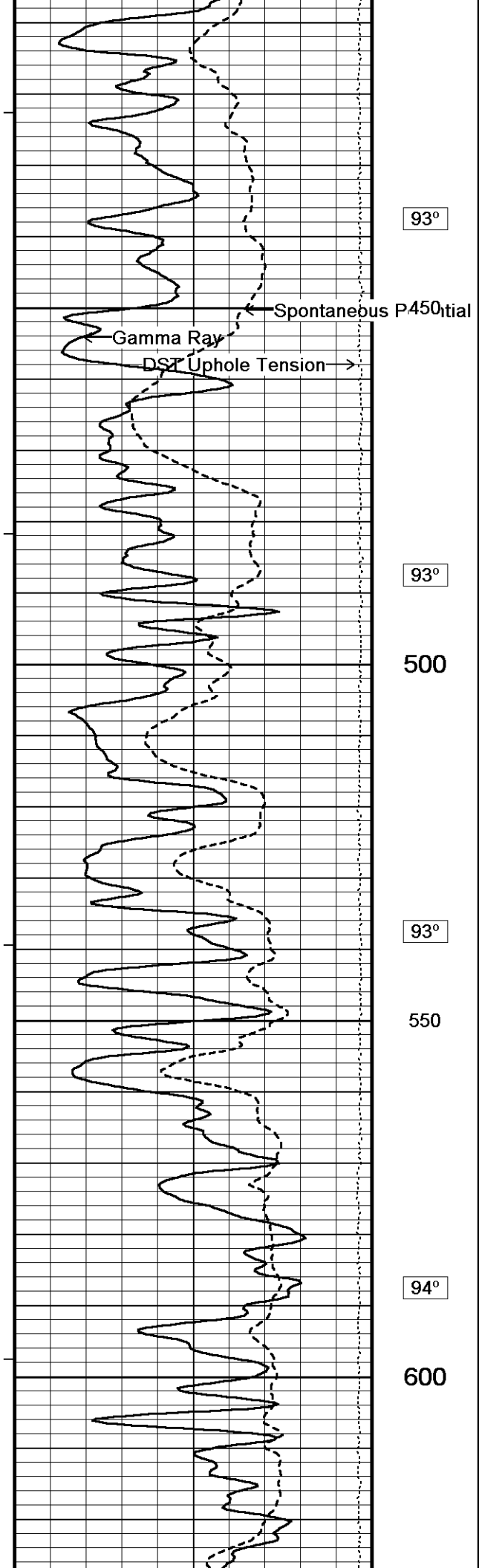
↑ 2 INCH MAIN LOG ↑

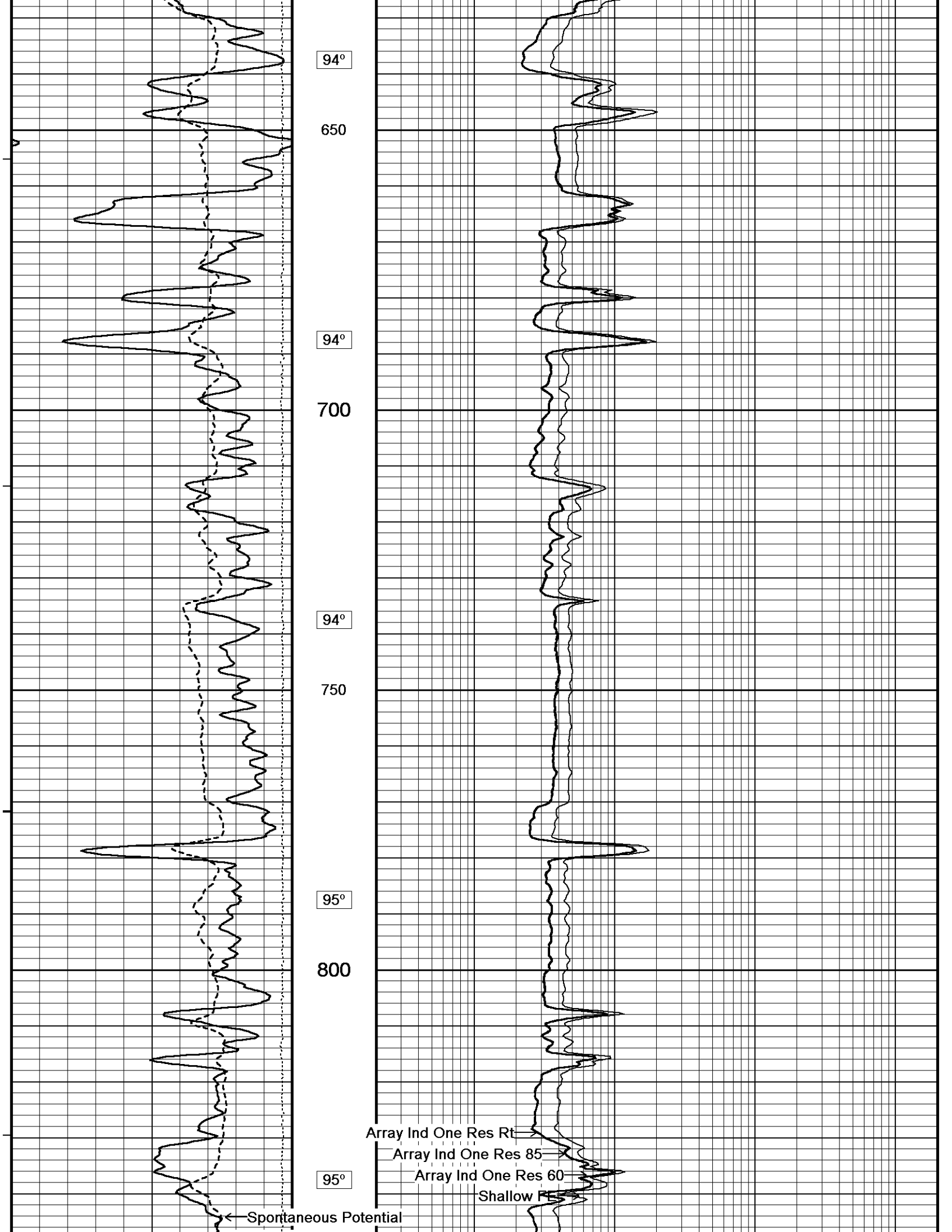
↓ 5 INCH MAIN LOG ↓

Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 25-JUN-2011 18:19
 Filename: C:\Program Files\Weatherford\WLS 11.02\Data\FUTURE(WEST MADDIX...WMMU3_003.dta Recorded on 25-JUN-2011 16:58
 System Versions: Logged with 11.02.2782 Plotted with 11.02.2782









DST Uphole Tension

Gamma Ray

850

95°

900

95°

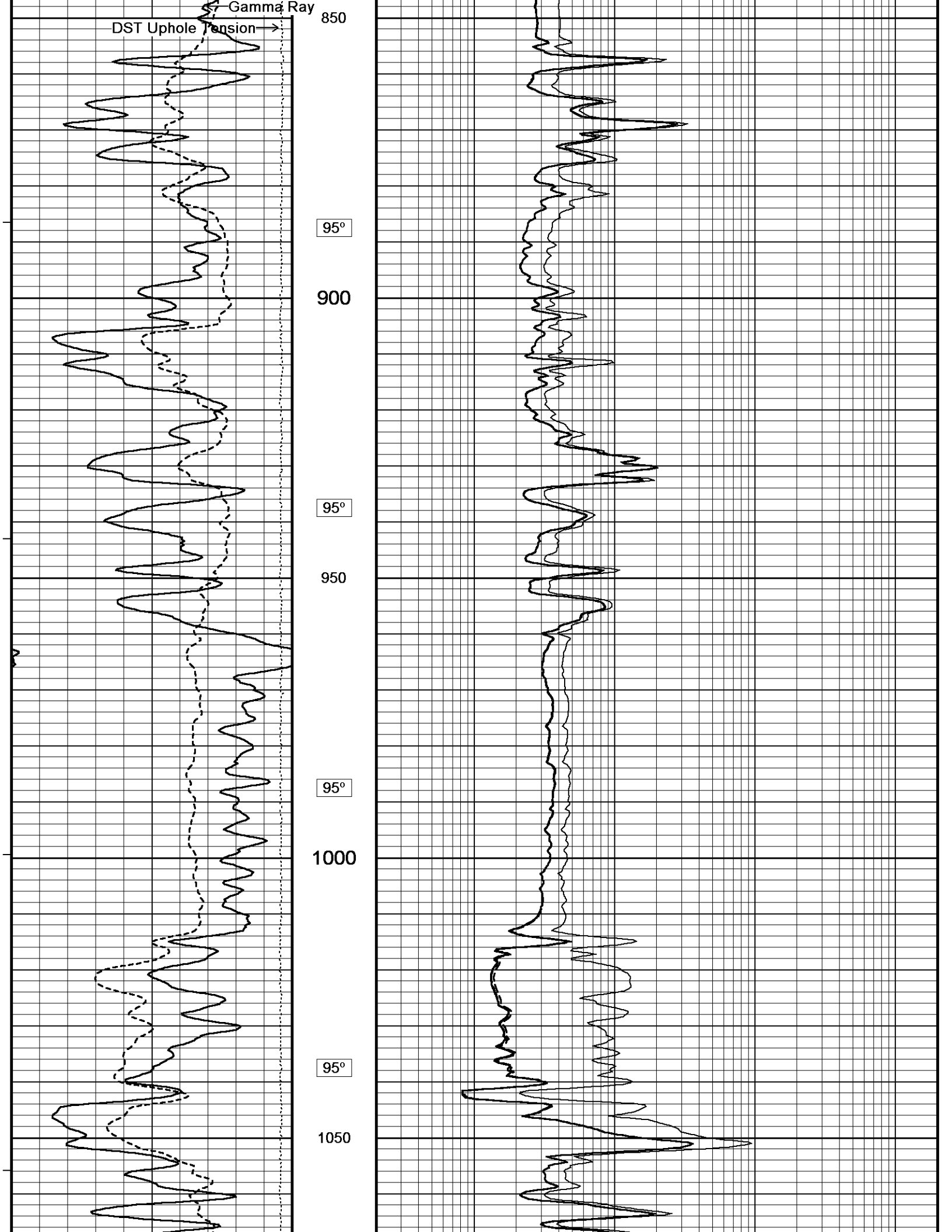
950

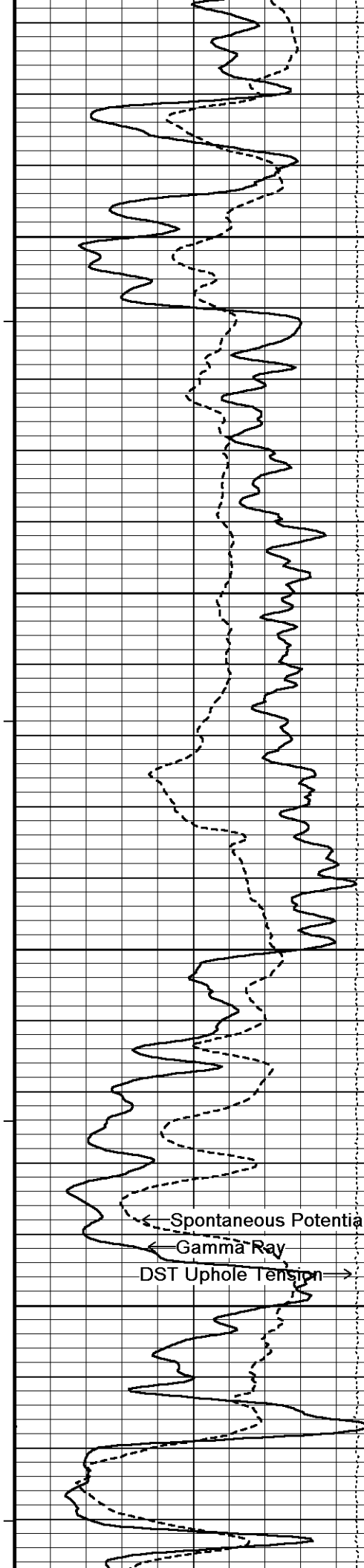
95°

1000

95°

1050





96°

1100

96°

1150

96°

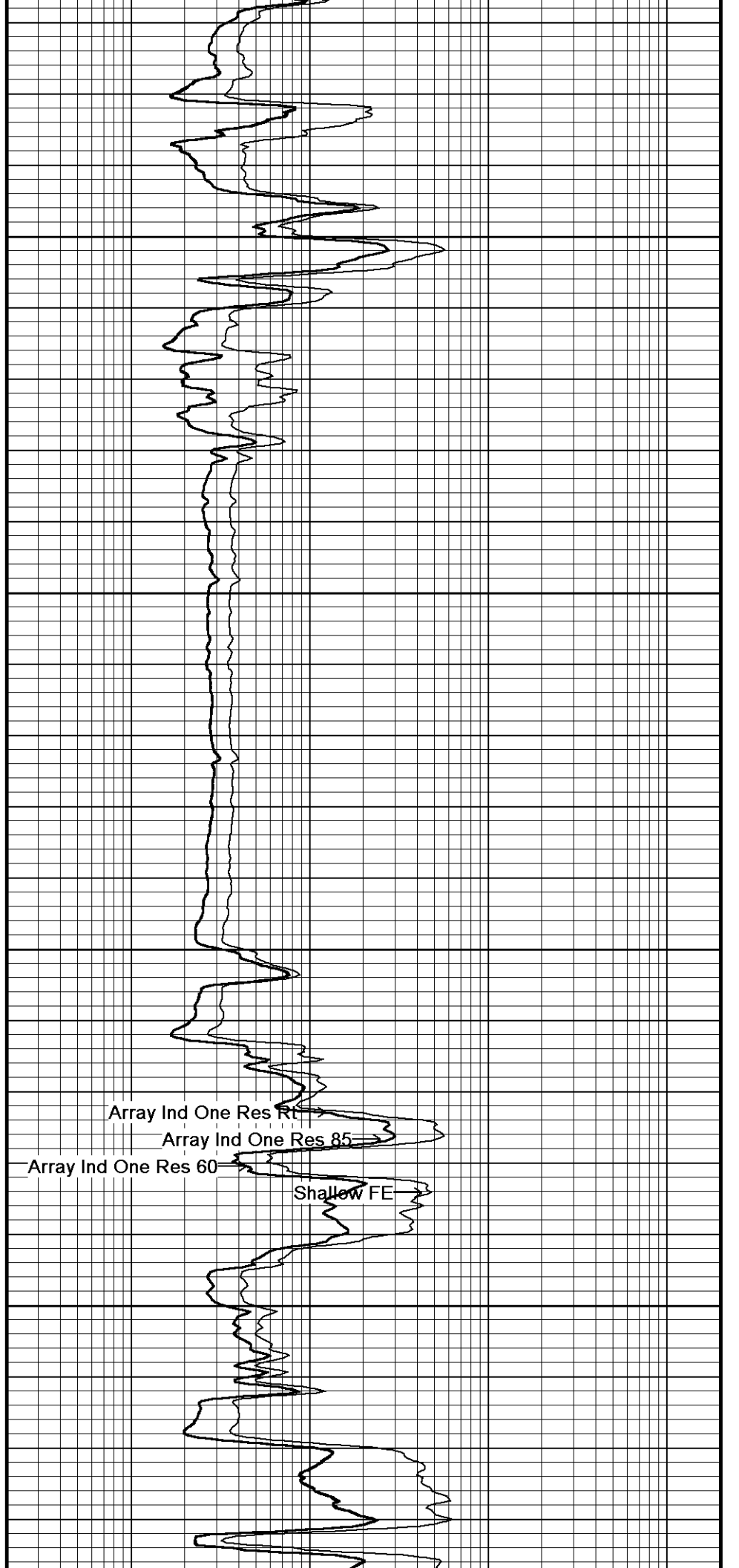
1200

← Spontaneous Potential
← Gamma Ray
DST Uphole Tension →

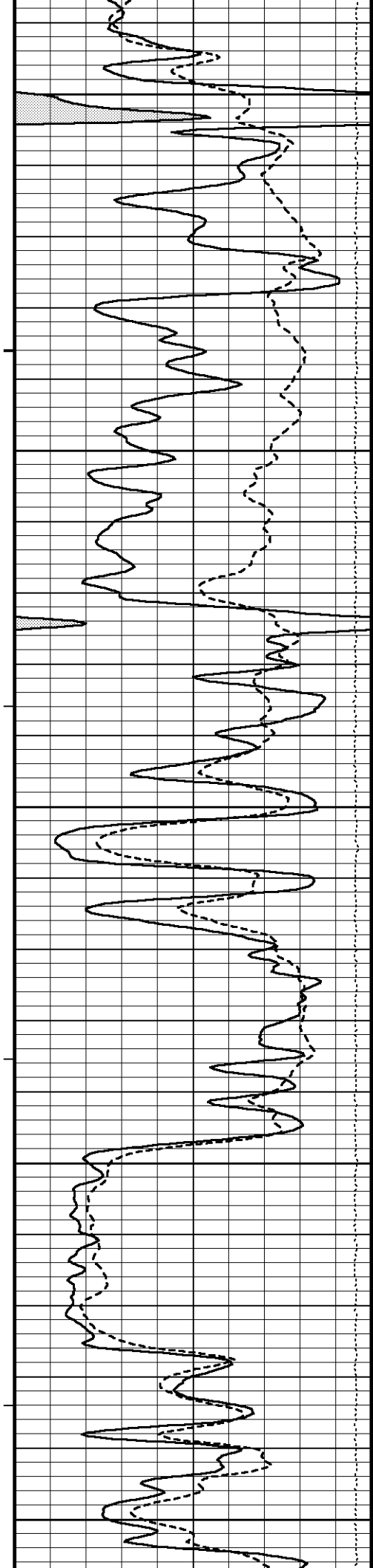
96°

1250

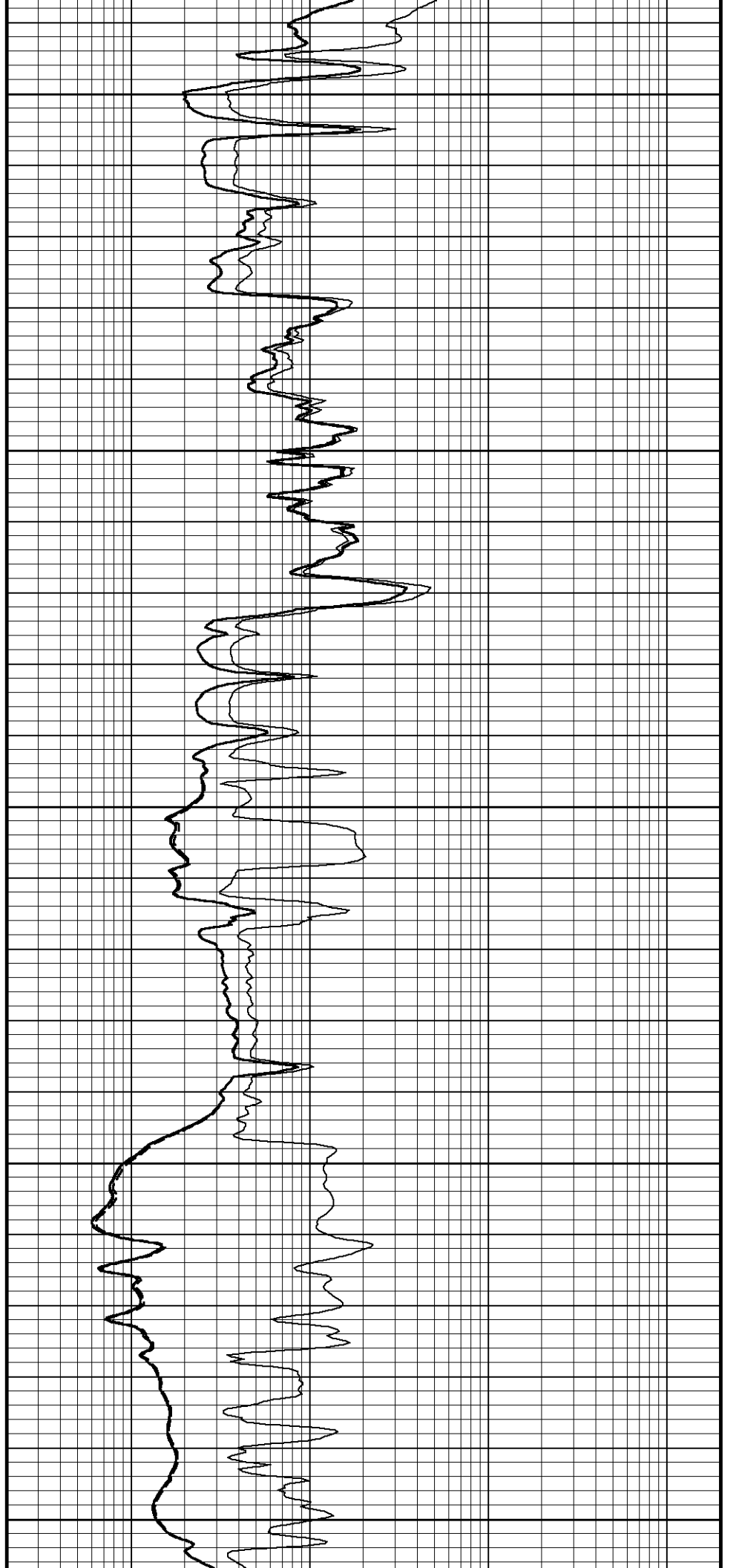
96°

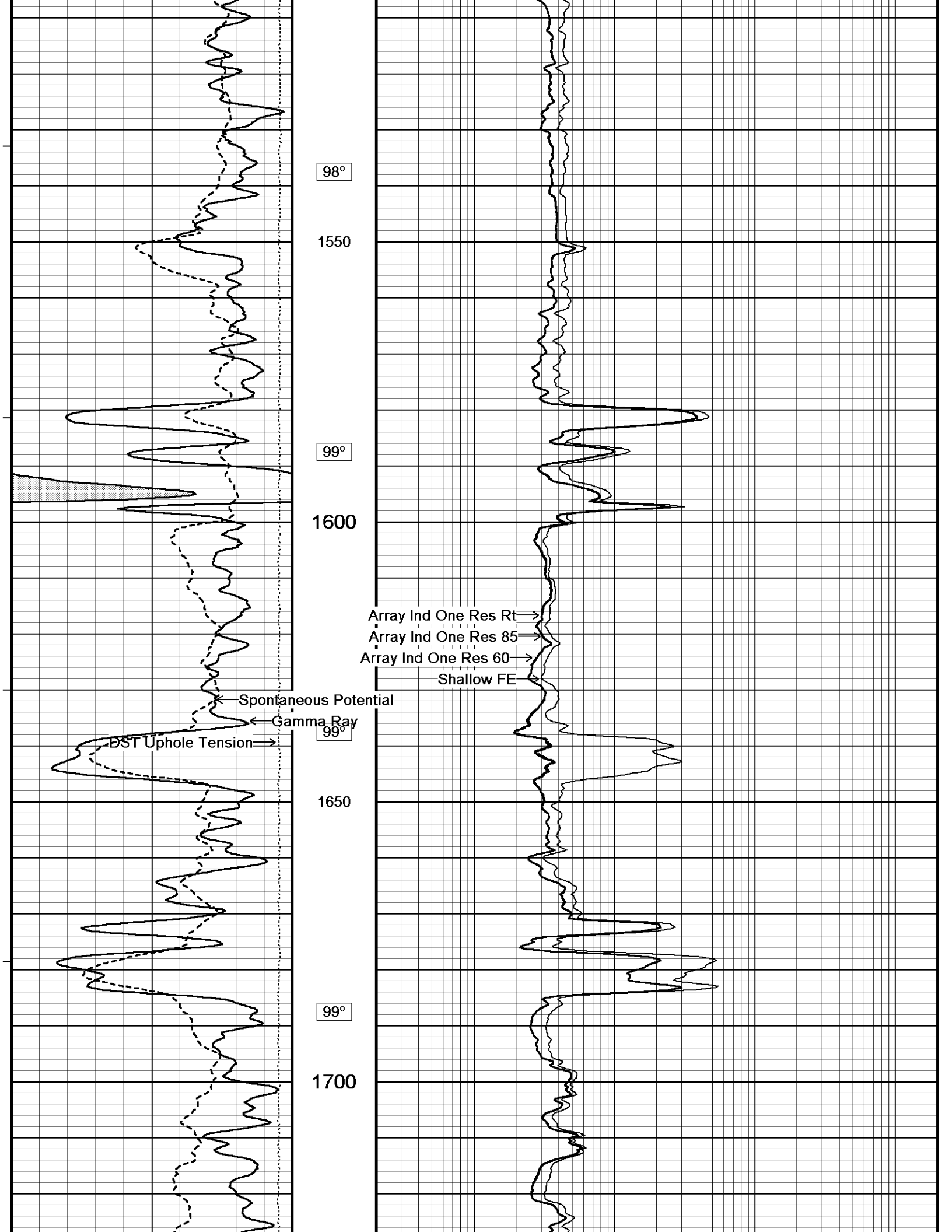


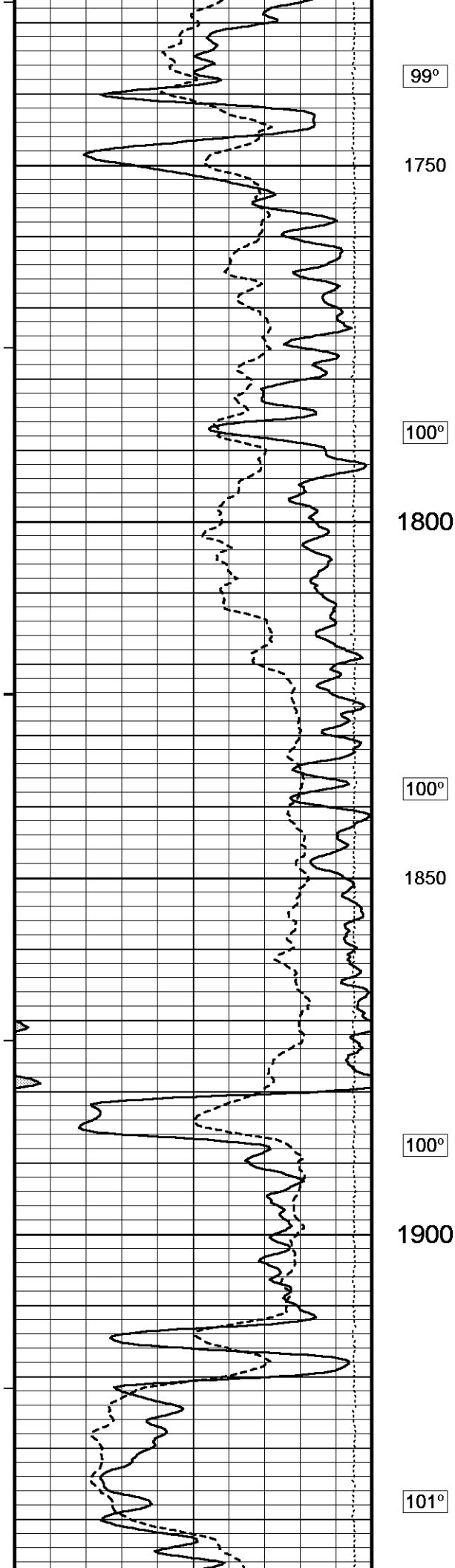
Array Ind One Res Rt →
Array Ind One Res 85 →
Array Ind One Res 60 →
Shallow FE →



97°
1300
97°
1350
97°
1400
97°
1450
98°
1500







99°

1750

100°

1800

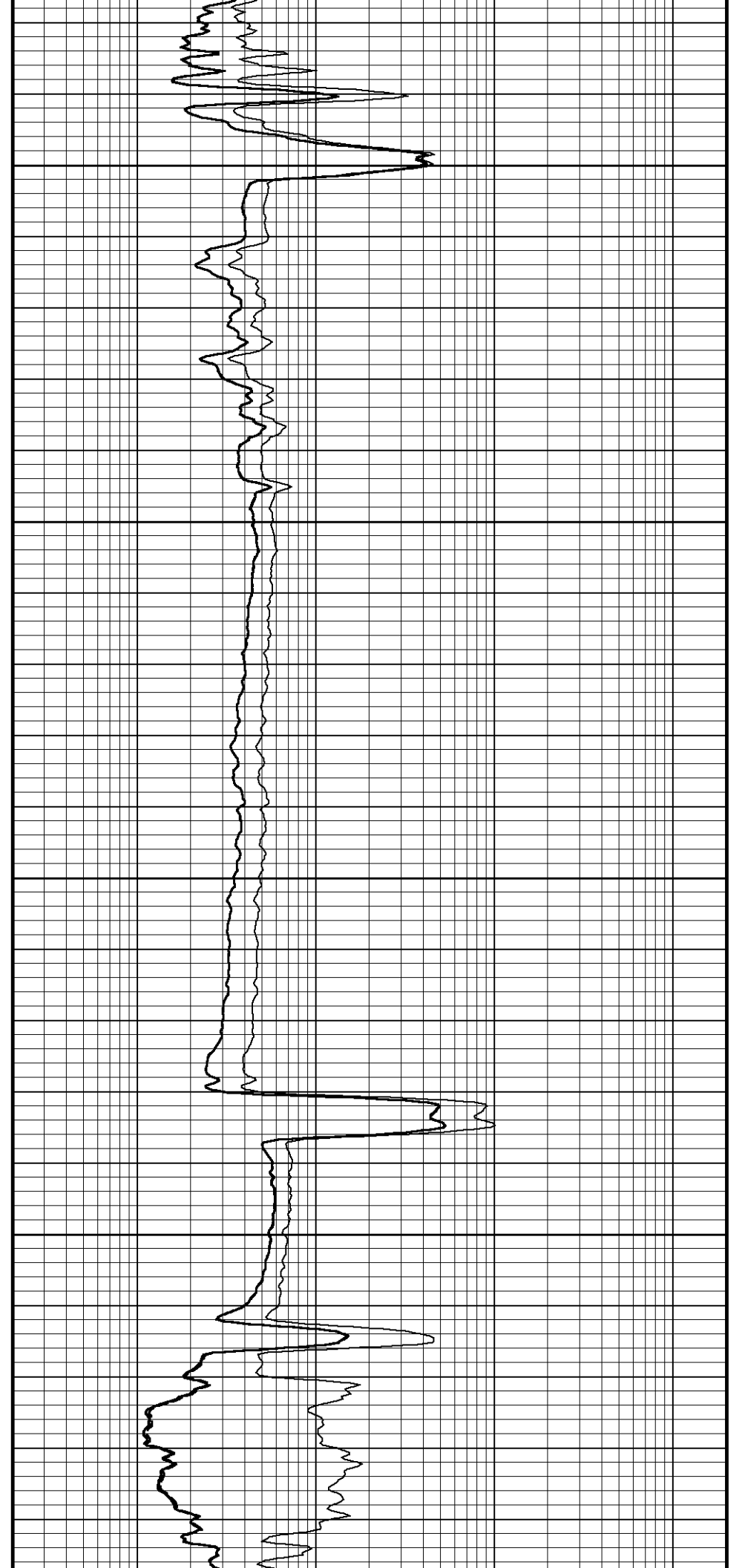
100°

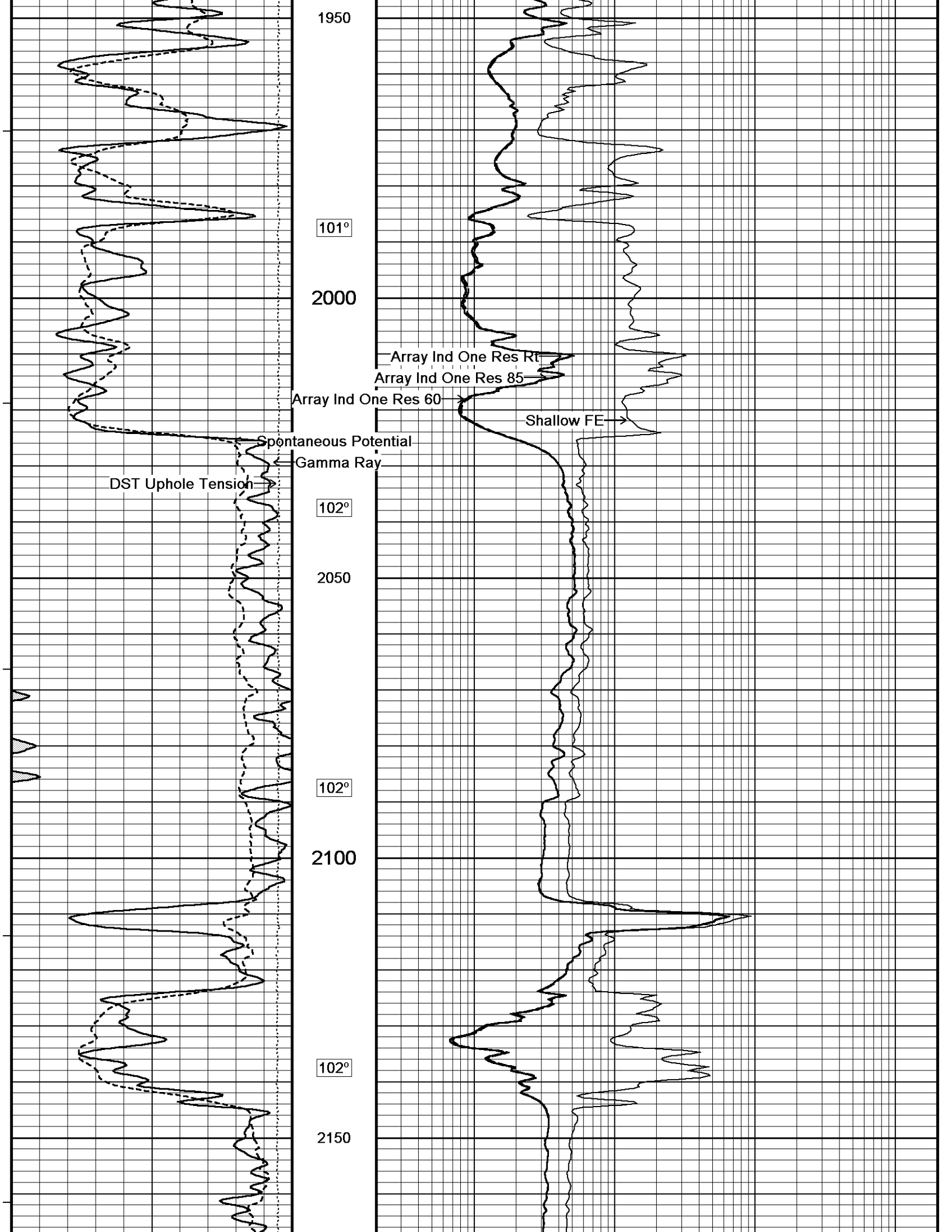
1850

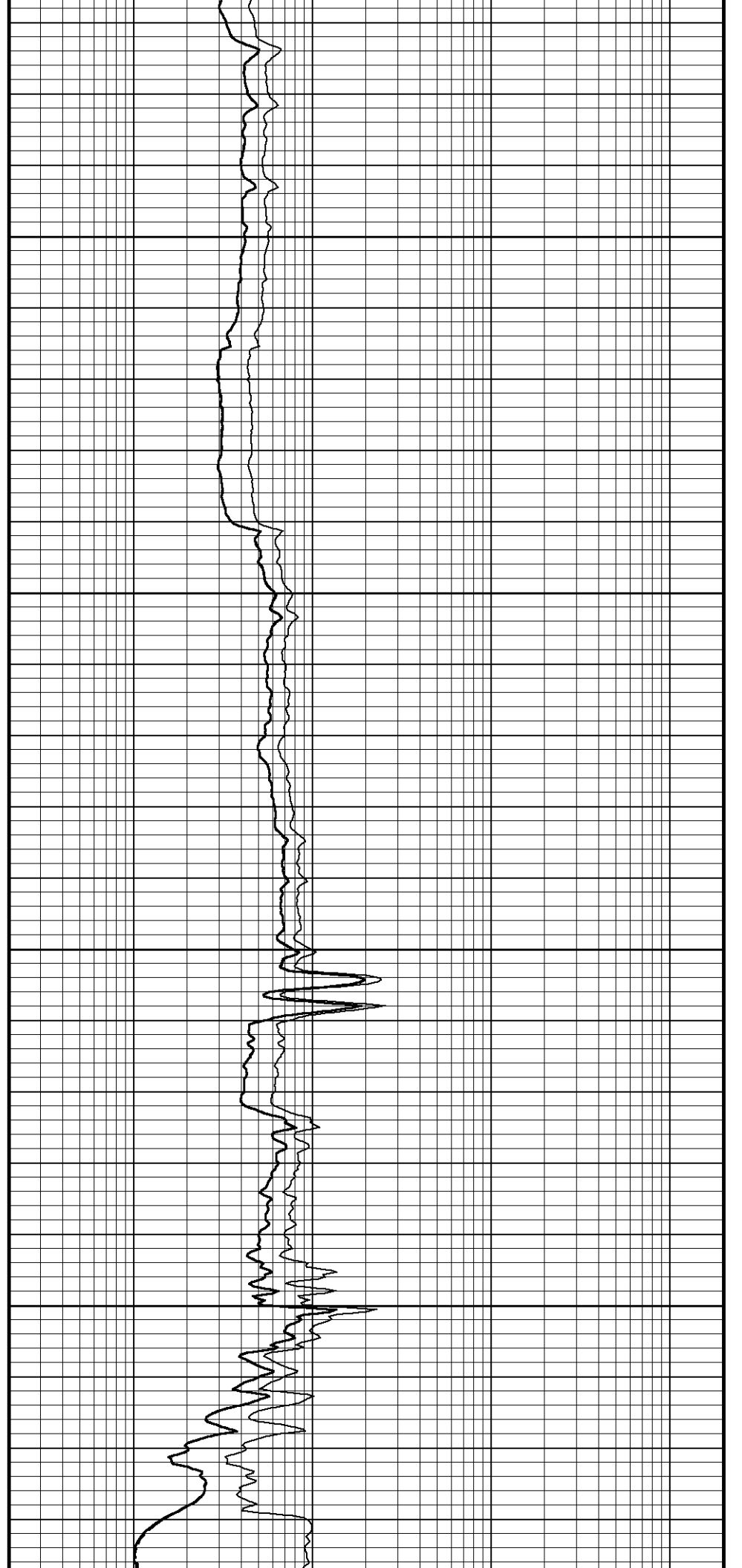
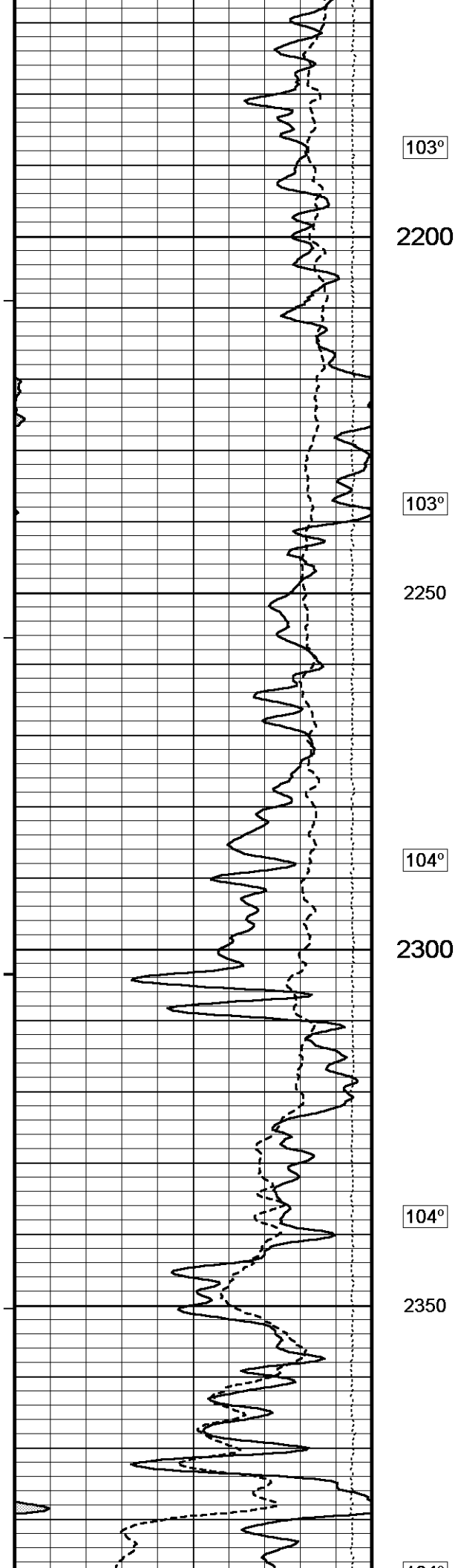
100°

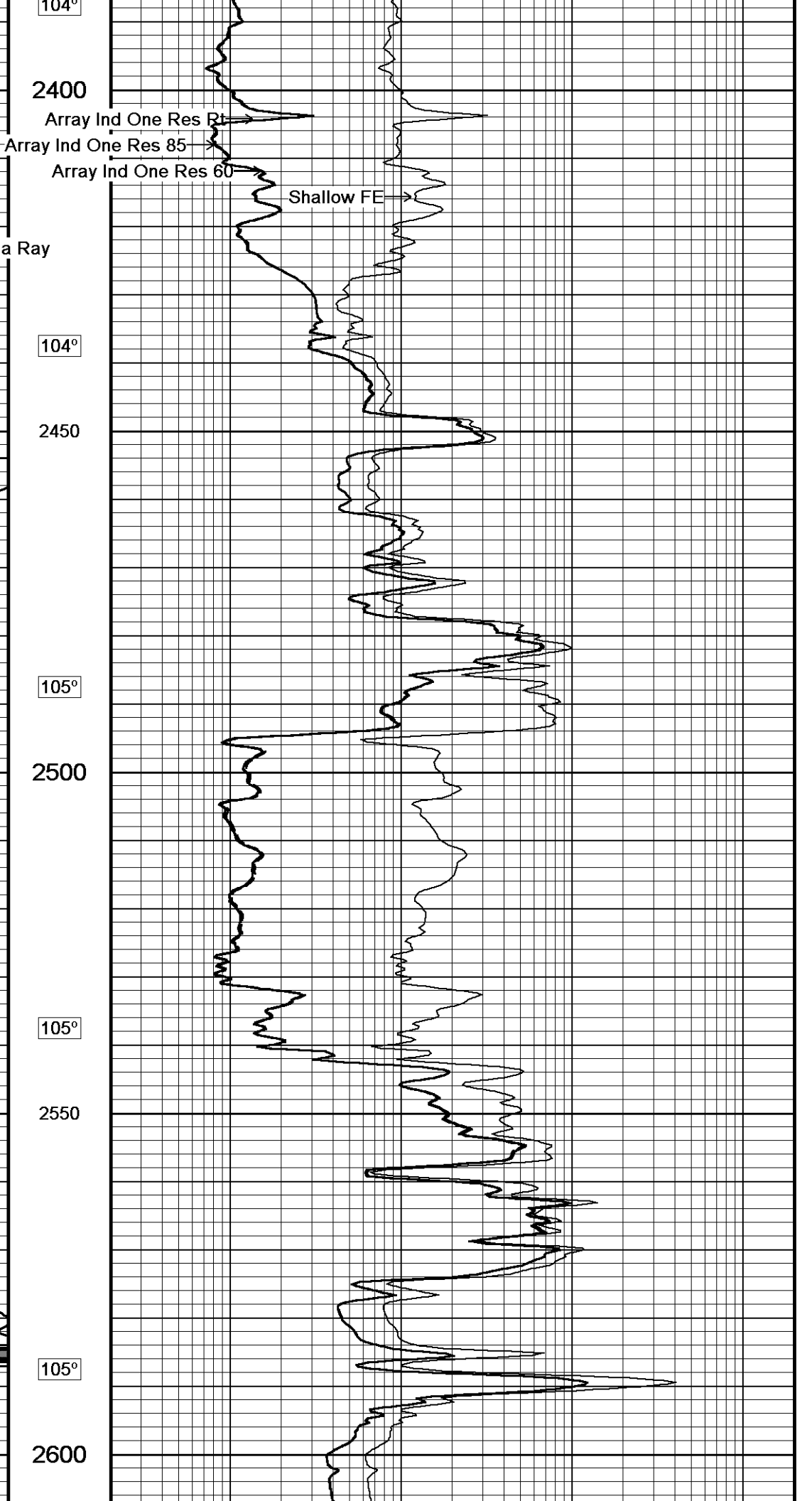
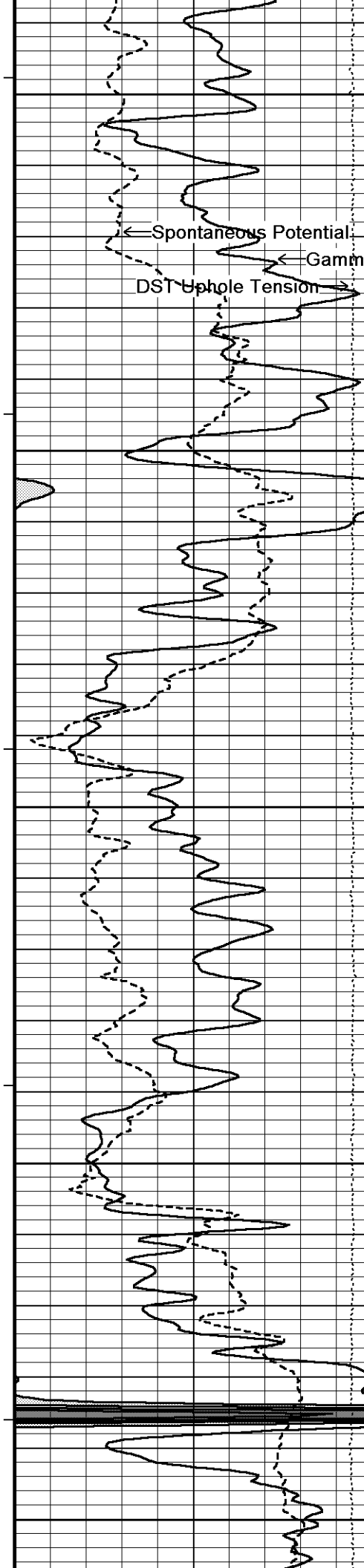
1900

101°









104°

2400

Array Ind One Res B1

Array Ind One Res 85

Array Ind One Res 60

Shallow FE

Spontaneous Potential

Gamma Ray

DST Uphole Tension

104°

2450

105°

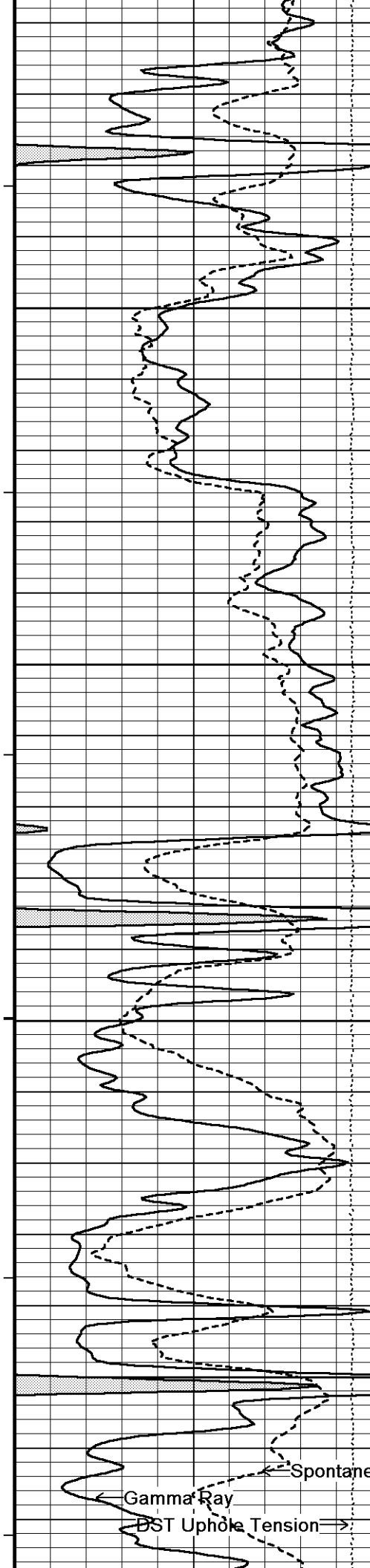
2500

105°

2550

105°

2600



105°

2650

105°

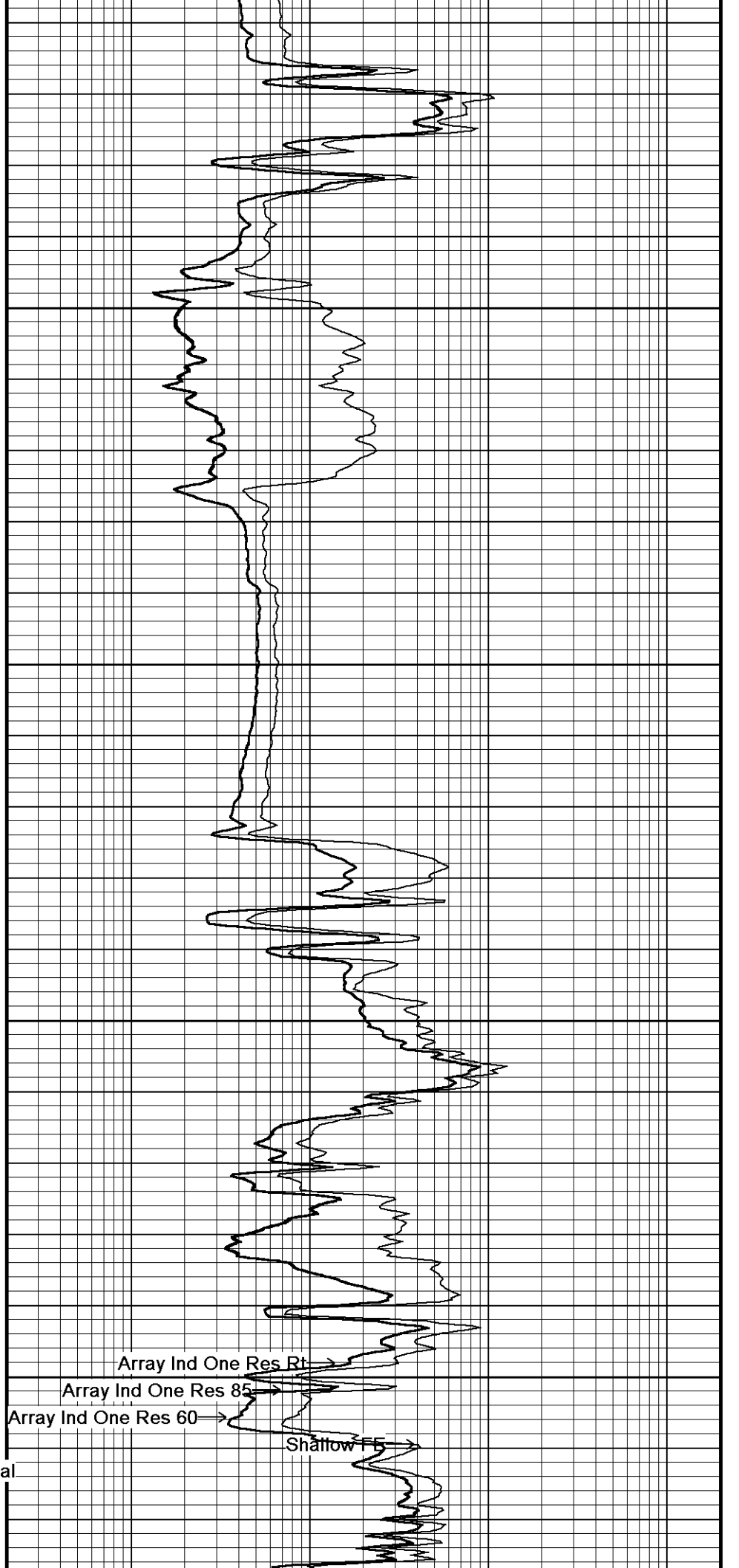
2700

106°

2750

106°

2800



Array Ind One Res Rt

Array Ind One Res 85

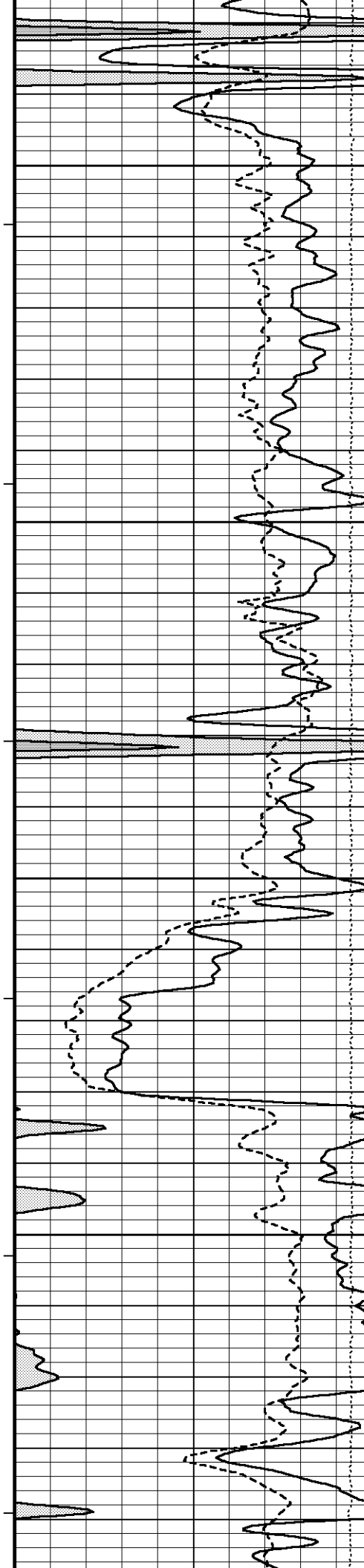
Array Ind One Res 60

Shallow F5

Gamma Ray

Spontaneous Potential

DST Uphole Tension



106°

2850

107°

2900

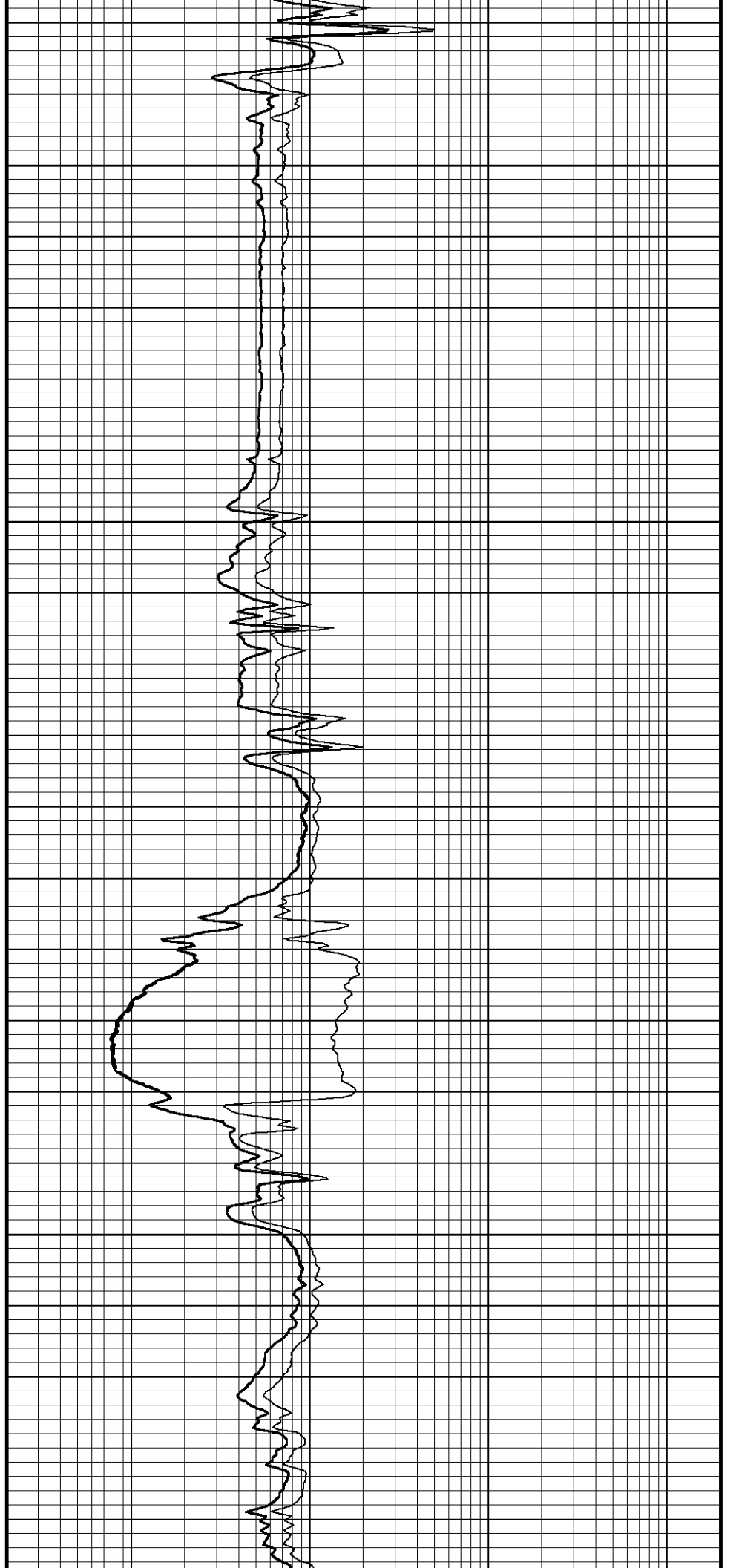
107°

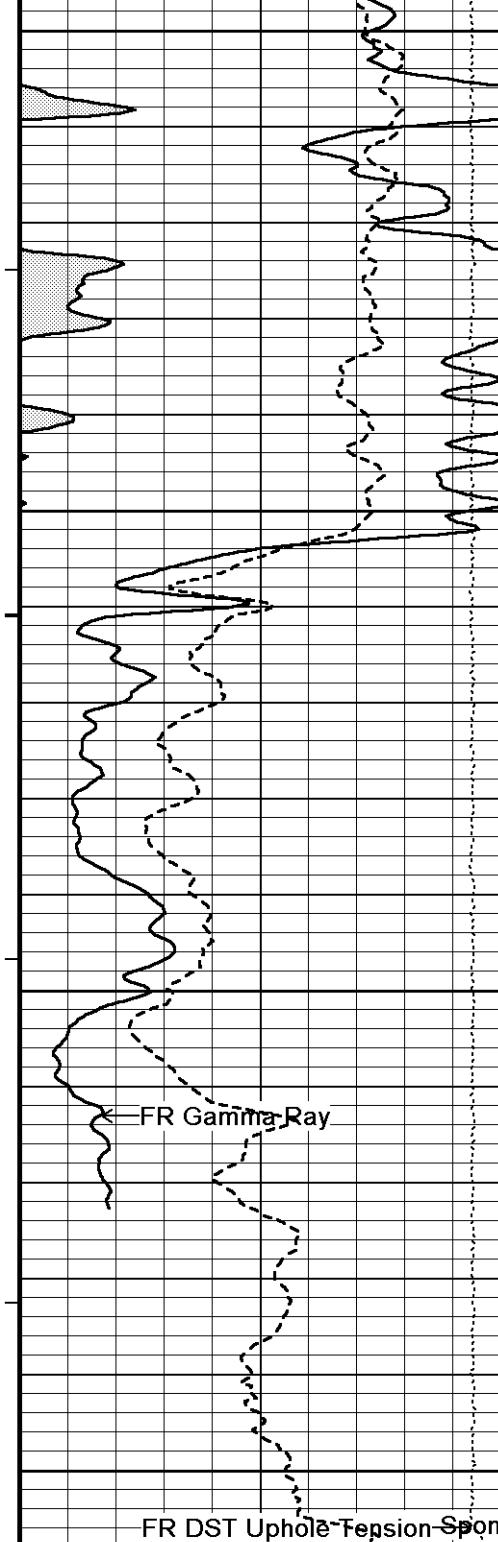
2950

108°

3000

108°

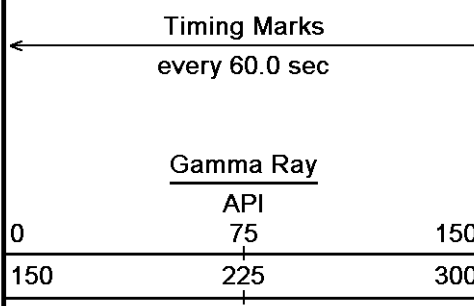
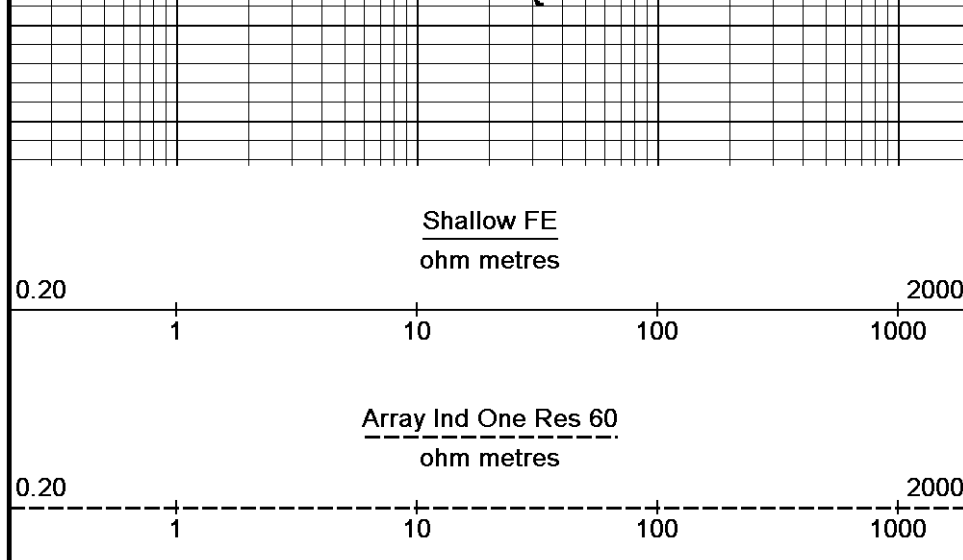
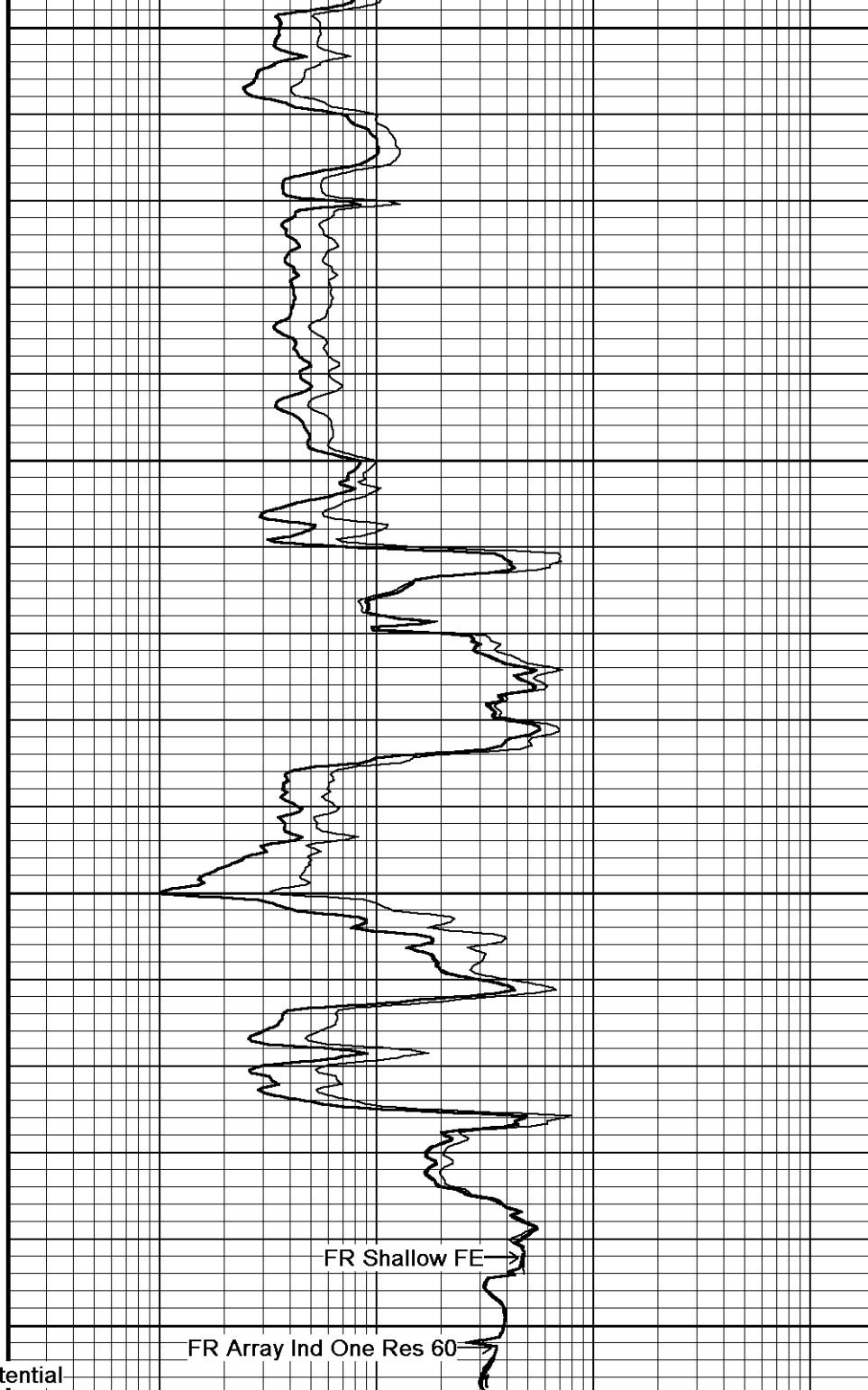


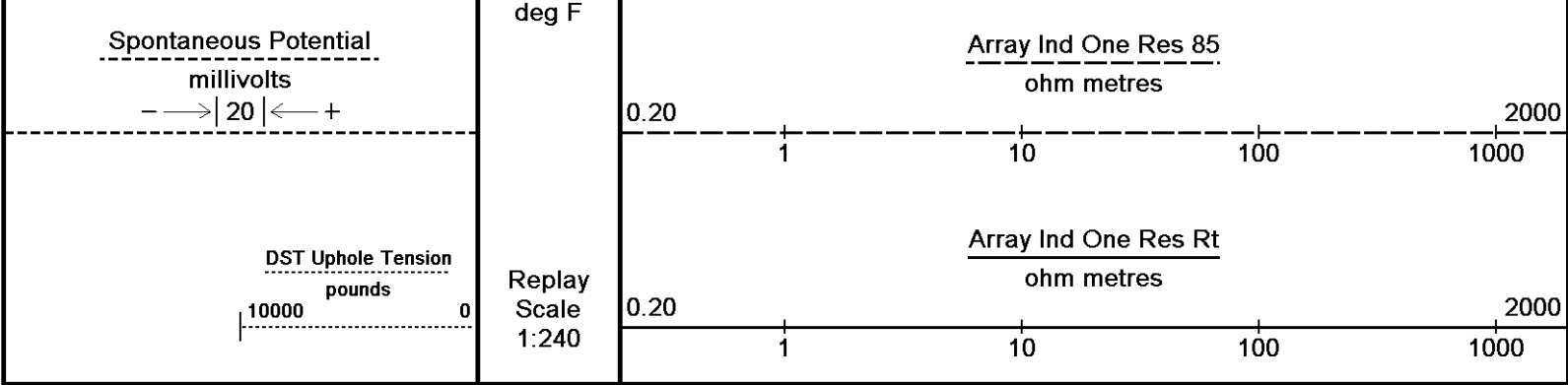


109°

109°

Depth in Feet



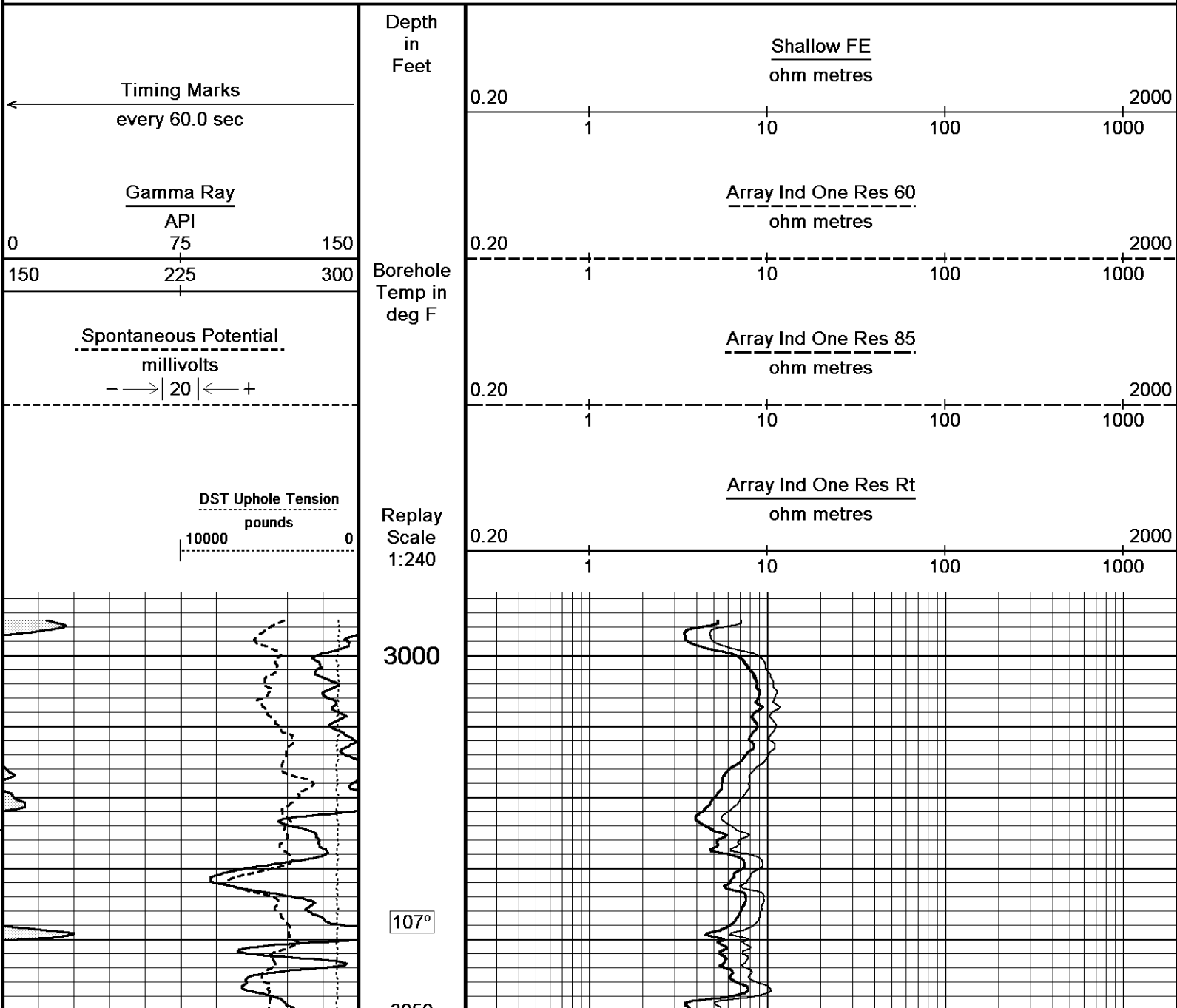


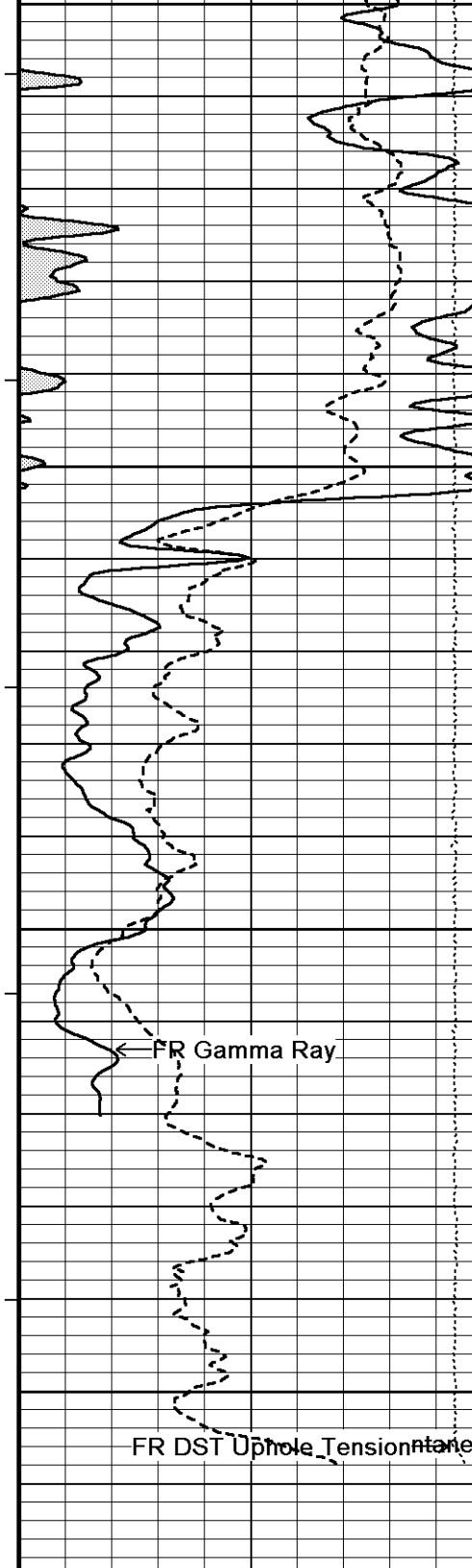
Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 25-JUN-2011 18:19
 Filename: C:\Program Files\Weatherford\WLS 11.02\Data\FUTURE(WEST MADDIX...WLMU3_003.dta Recorded on 25-JUN-2011 16:58
 System Versions: Logged with 11.02.2782 Plotted with 11.02.2782

↑ **5 INCH MAIN LOG** ↑

↓ **5 INCH REPEAT** ↓

Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 25-JUN-2011 18:19
 Filename: C:\Program Files\Weatherford\WLS 11.02\Data\FUTURE(WEST MADDIX...WLMU3_002.dta Recorded on 25-JUN-2011 16:47
 System Versions: Logged with 11.02.2782 Plotted with 11.02.2782





108°

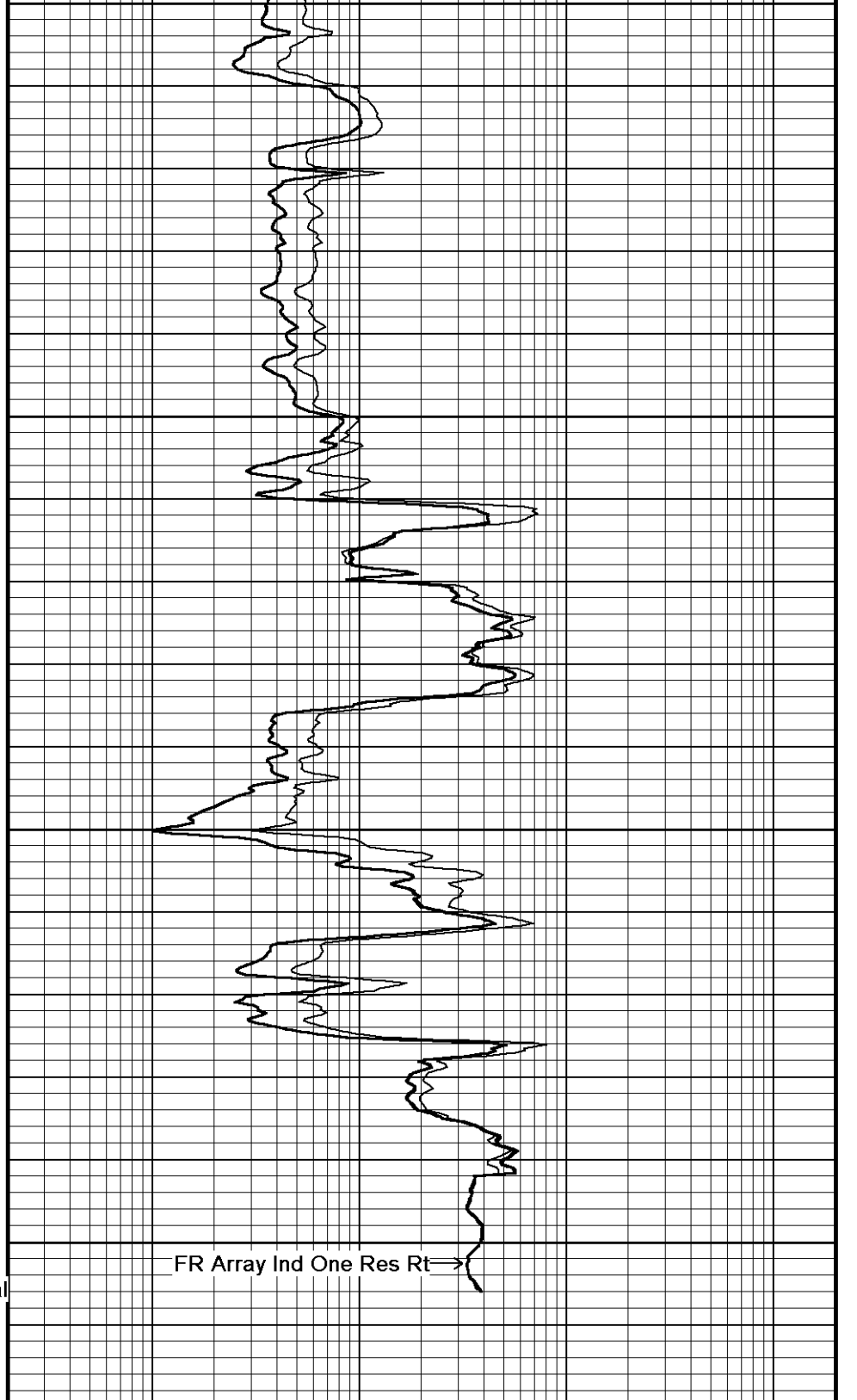
108°

FR Array Ind One Res Rt

Shallow FE
ohm metres

Array Ind One Res 60
ohm metres

Array Ind One Res 85



Timing Marks
every 60.0 sec

Gamma Ray
API
0 75 150
150 225 300

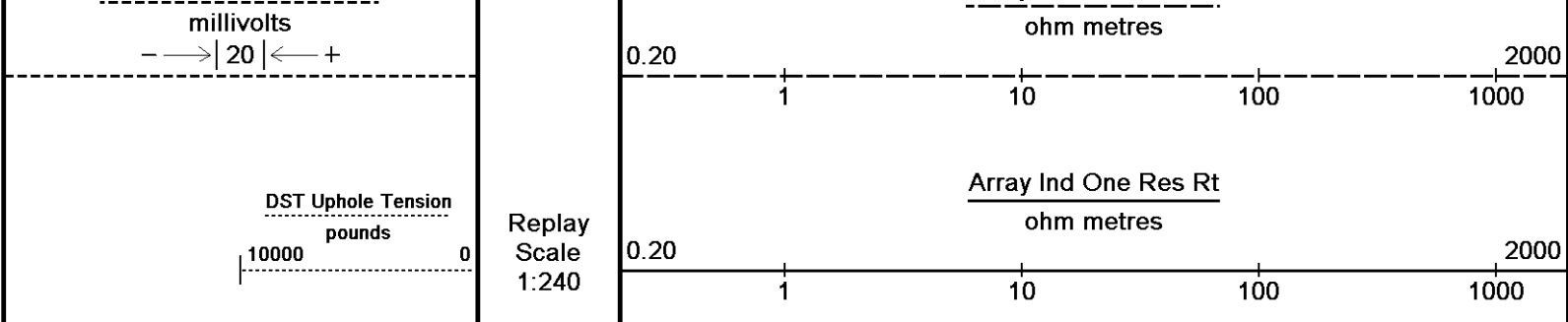
Borehole
Temp in
deg F

3218

Depth
in
Feet

0.20 1 10 100 1000 2000

0.20 1 10 100 1000 2000



Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 25-JUN-2011 18:19
 Filename: C:\Program Files\Weatherford\WLS 11.02\Data\FUTURE(WEST MADDIX...WMU3_002.dta Recorded on 25-JUN-2011 16:47
 System Versions: Logged with 11.02.2782 Plotted with 11.02.2782

↑ 5 INCH REPEAT ↑

BEFORE SURVEY CALIBRATION
 C:\Program Files\Weatherford\WLS 11.02\Data\FUTURE(WEST MADDIX UNIT 3)\WMU3_001.dta

General Constants All 000 Last Edited on 25-JUN-2011,15:38

General Parameters		
Mud Resistivity	1.400	ohm-metres
Mud Resistivity Temperature	94.000	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 20-JUN-2011 00:17

Reading No	Measured	Calibrated (lbs)
1	12934.36	0.00
2	15091.67	515.00

Gamma Calibration MCG-B 31 Field Calibration on 25-JUN-2011,15:34

	Measured	Calibrated (API)
Background	54	37
Calibrator (Gross)	1868	1298
Calibrator (Net)	1815	1261

Gamma Constants MCG-B 31 Last Edited on 25-JUN-2011,15:34

Gamma Calibrator Number	46	
Mud Density	1.13	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

SP Calibration MCG-B 31 Field Calibration on 25-JUN-2011,15:35

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

High Resolution Temperature Calibration MCG-B 31 Field Calibration on 25-JUN-2011,15:35

	Measured	Calibrated(Deg F)
--	----------	-------------------

Lower	50.00	50.00
Upper	100.00	100.00

High Resolution Temperature Constants MCG-B 31 Last Edited on 30-APR-2011,09:49

Pre-filter Length 11

Caliper Calibration MML-A 1 Base Calibration on 31-MAY-2011 11:18
Field Calibration on 25-JUN-2011,15:35

Base Calibration		
Reading No	Measured	Calibrator Size (in)
1	15437	5.96
2	18939	7.99
3	22098	9.86
4	26125	11.92
5	0	0.00
6	N/A	N/A

Field Calibration	
Measured Caliper (in)	Actual Caliper (in)
8.77	8.92

Micro Normal and Micro Inverse Calibration MML-A 1 Base Calibration on 31-MAY-2011 11:05
Field Check on 25-JUN-2011,15:36

Base Calibration					
Channel	Resistor 1	Measured		Calibrated (ohm-m)	
		Resistor 2	Resistor 1	Resistor 2	
Micro Normal	11.8	59.1	2.6	12.8	
Micro Inverse	15.6	76.8	1.7	8.4	

Channel	Base Check (ohm-m)	Field Check (ohm-m)
Micro Normal	0.0	32.6
Micro Inverse	0.0	16.7

Micro Normal and Micro Inverse Constants MML-A 1 Last Edited on 24-JUN-2011,23:23

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

Neutron Calibration MDN-A.A 10 Base Calibration on 12-MAY-2011,18:29
Field Check on 25-JUN-2011,15:36

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

Field Calibrator at Base		
Ratio	Calibrated (cps)	
	Near	Far
	1248	1792
	0.696	

Field Check		
Ratio	Calibrated (cps)	
	Near	Far
	1248	1792
	0.696	

Neutron Constants MDN-A.A 10 Last Edited on 24-JUN-2011,23:23

Neutron Source Id 708

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 MCG External Temperature

Temperature N/A degrees F

Mud Salinity 0.00 kppm

Formation Fluid Salinity Source	Constant Value	
Formation Fluid Salinity	0.00	kppm
Barite Mud Correction	Not Applied	

FE Calibration MFE-A.A 65		Base Calibration on 12-MAY-2011,02:46 Field Check on 25-JUN-2011,15:37	
Base Calibration			
	Measured	Calibrated (ohm-m)	
Reference 1	0.0	0.0	
Reference 2	952.1	126.8	
Base Check		284.0	
Field Check		284.0	

FE Constants MFE-A.A 65		Last Edited on 24-JUN-2011,23:23	
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 11		Field Calibration on 24-JUN-2011,23:24	
	Measured	Calibrated(Deg F)	
Lower	50.00	50.00	
Upper	75.00	75.00	

High Resolution Temperature Constants MAI-A.A 11		Last Edited on 23-JUN-2009,12:59	
Pre-filter Length	11		

Induction Calibration MAI-A.A 11		Base Calibration on 20-NOV-2009,13:14 Field Check on 25-JUN-2011,15:37			
Base Calibration					
Test Loop Calibration		Measured		Calibrated (mmho/m)	
Channel	Low	High	Low	High	
1	14.9	441.9	9.3	966.2	
2	5.1	355.2	7.6	821.4	
3	3.0	242.9	5.2	566.0	
4	1.5	126.7	2.6	279.2	
Array Temperature	70.3		Deg F		
Channel	Base Check (mmho/m)		Field Check (mmho/m)		
	Low	High	Low	High	
1	0.0	0.0	19.8	4056.1	
2	0.0	0.0	34.4	3744.4	
3	0.0	0.0	31.2	3214.3	
4	0.0	0.0	21.2	2150.0	
Deep	0.0	0.0	18.5	2052.8	
Medium	0.0	0.0	45.1	4280.0	
Shallow	0.0	0.0	52.5	5594.5	
Array Temperature	0.0		100.5		Deg F

Induction Constants MAI-A.A 11		Last Edited on 24-JUN-2011,23:24			
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	6.0000				
Stand-off Fin Angle	60.00	degrees			
Stand-off Fin Width	0.5000	inches			
Borehole Corr. Rm Source	Temperature Corr				
Temp. for Rm Corr.	MCG External Temperature				
Squasher Start	0.0060	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 31-MAY-2011 12:35

Field Calibration on 25-JUN-2011,15:37

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	19249	3.98
2	27520	5.95
3	36080	7.97
4	44112	9.84
5	53198	11.91
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
8.90	8.92

Photo Density Calibration MPD-A 3

Base Calibration on 31-MAY-2011 12:51

Field Check on 25-JUN-2011,15:36

Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	46067	24828	59869	31110
Reference 2	19666	2824	24557	2522

Field Check at Base

1315.1 1658.6

Field Check

1317.1 1669.0

PE Calibration

Base Calibration	WS	Measured		Calibrated Ratio
		WH	Ratio	
Background	238	1164		
Reference 1	17840	45865	0.394	0.369
Reference 2	5288	19511	0.275	0.271

Field Check at Base

237.9 1164.2

Field Check

239.0 1164.9

Density Constants MPD-A 3

Last Edited on 25-JUN-2011,15:36

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	1.13	gm/cc
Mud Density Z/A Multiplier	1.11	
Mud Filtrate Density	1.00	gm/cc
Dry Hole Mud Filtrate Density	1.00	gm/cc
DNCT	0.00	gm/cc
CRCT	0.00	gm/cc
Density Z/A Correction	Hybrid	

Matrix Density (gm/cc)	Depth (ft)
2.71	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00

DOWNHOLE EQUIPMENT

C:\Program Files\Weatherford\WLS 11.02\Data\FUTURE(WEST MADDIX UNIT 3)\WMU3_001.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-B 31 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Micro-log
MML-A 1 LG: 7.97 ft WT: 81.6 lb OD: 2.24 in

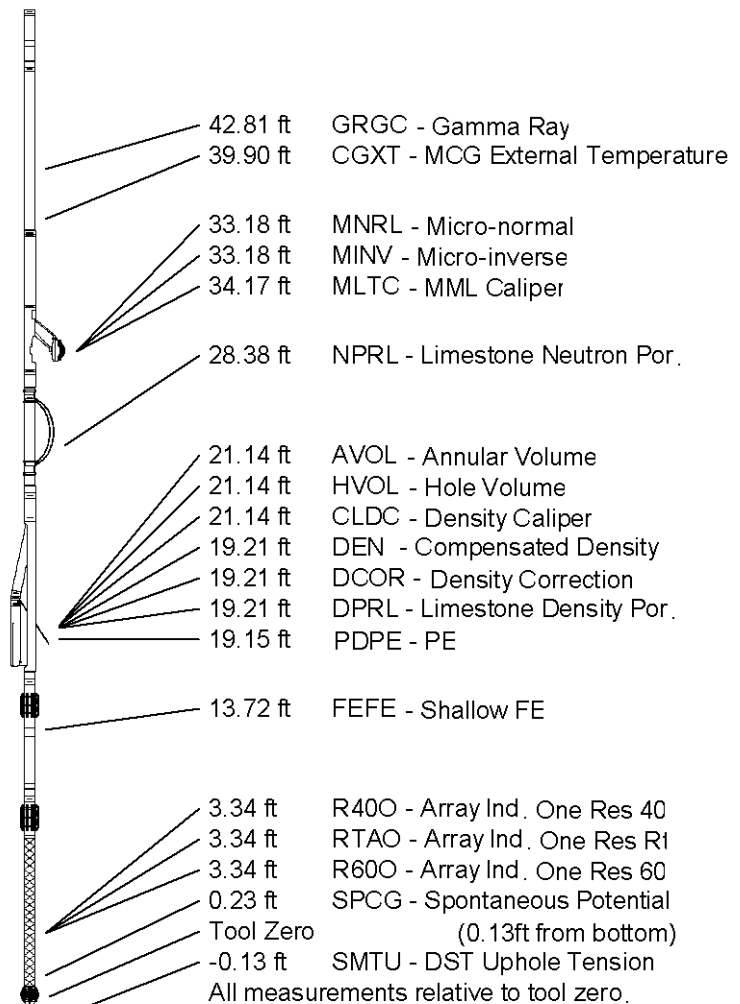
Compact Neutron
MDN-A.A 10 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

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 11 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 50.83 ft Weight: 410.1 lb



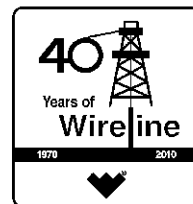
COMPANY	FUTURE PETROLEUM COMPANY LLC
WELL	WEST MADDIX UNIT NO. 3
FIELD	WEST MADDIX UNIT

PROVINCE/COUNTY COWLEY
 COUNTRY/STATE USA/KANSAS

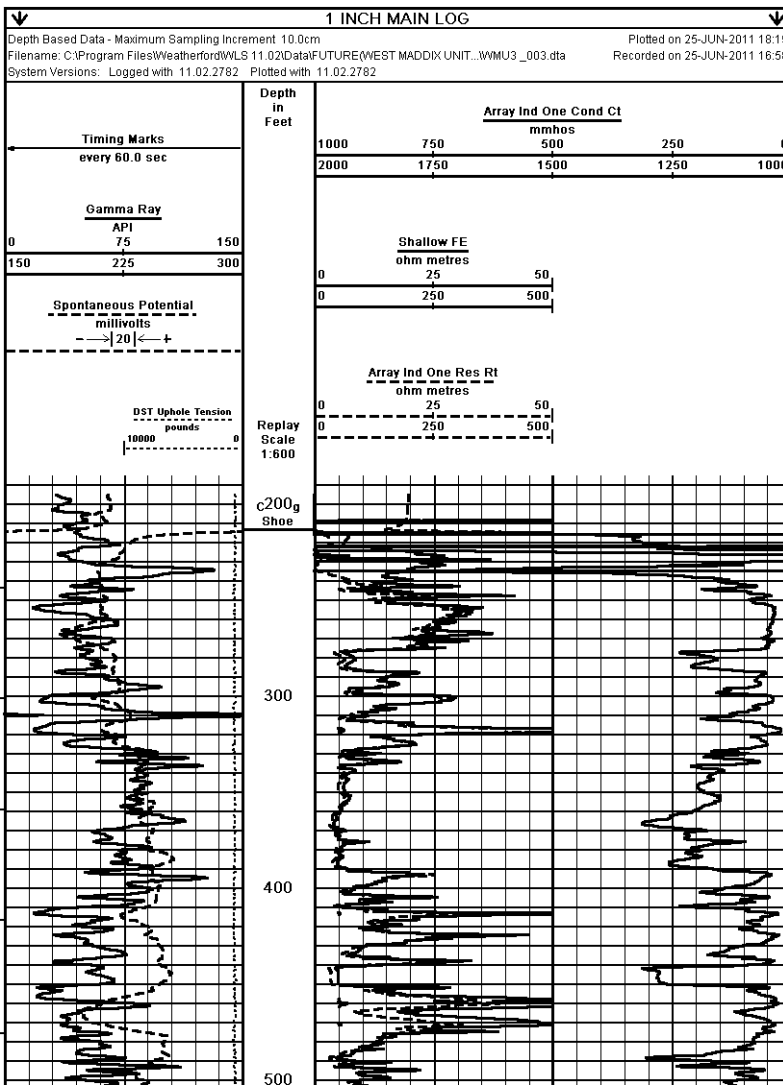
Elevation Kelly Bushing	1280.00	feet	First Reading	3203.00	feet
Elevation Drill Floor	1278.00	feet	Depth Driller	3204.00	feet
Elevation Ground Level	1270.00	feet	Depth Logger	3206.00	feet

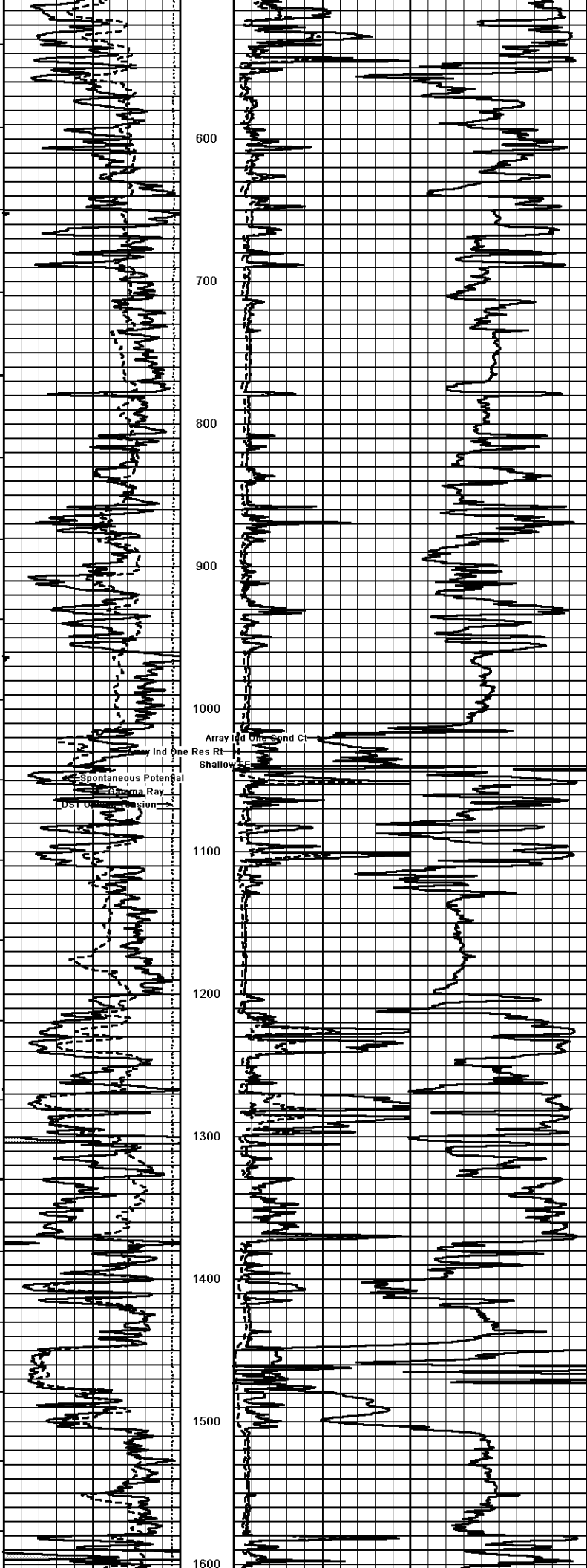


ARRAY INDUCTION
 SHALLOW FOCUSED
 ELECTRIC LOG



Weatherford		ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG	
COMPANY: FUTURE PETROLEUM COMPANY LLC WELL: WEST MADDIX UNIT NO. 3 FIELD: WEST MADDIX UNIT PROVINCE/COUNTY: COWLEY COUNTRY/STATE: USA/KANSAS LOCATION: 1962 nd FNL & 1803 rd FEL		Form Number: 15-095-2421 Other Services: MFL Log Measured from K&B 10 FEET above Permanent Datum Drilling Measured from K&B	
Date: 25-JUN-2011 Run Number: ONE Depth Driller: 3204.00 Depth Logger: 3206.00 First Reading: 3203.00 Last Reading: 200.00 Casing Driller: 213.00 Casing Logger: 213.00 BH Size: 7.875 Hole Fluid Type: CHEMICAL Density/Viscosity: 9.10 g/cc PH / Fluid Loss: 9.00 Sample Source: FLOWLINE Rin @ Measured Temp: 1.40 @ 94.0 Rin @ Measured Temp: 1.20 @ 94.0 Rin @ Measured Temp: 2.52 @ 94.0 Source Rin / Rin: CALC Rin @ BHT: 0.82 @ 109.0 Time Since Circulation: 4 HOURS Max Recorded Temp: 109.00 Equipment Name: COMPACT Equipment / Base: 13226 Recorded By: MIKE GARRISON Witnessed By: TERRY MADSEN	Other Services: MFL Log Measured from K&B 10 FEET above Permanent Datum Drilling Measured from K&B Form Number: 15-095-2421 Other Services: MFL Log Measured from K&B 10 FEET above Permanent Datum Drilling Measured from K&B	Form Number: 15-095-2421 Other Services: MFL Log Measured from K&B 10 FEET above Permanent Datum Drilling Measured from K&B	Form Number: 15-095-2421 Other Services: MFL Log Measured from K&B 10 FEET above Permanent Datum Drilling Measured from K&B





600

700

800

900

1000

1100

1200

1300

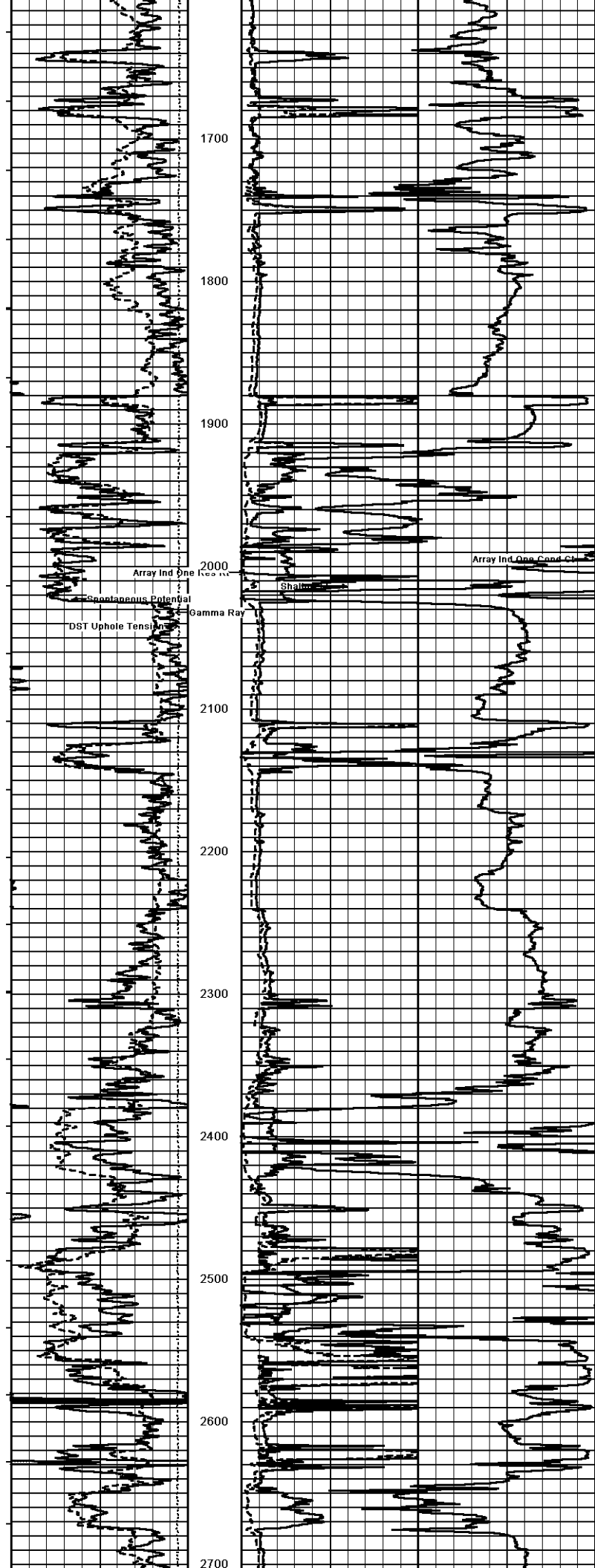
1400

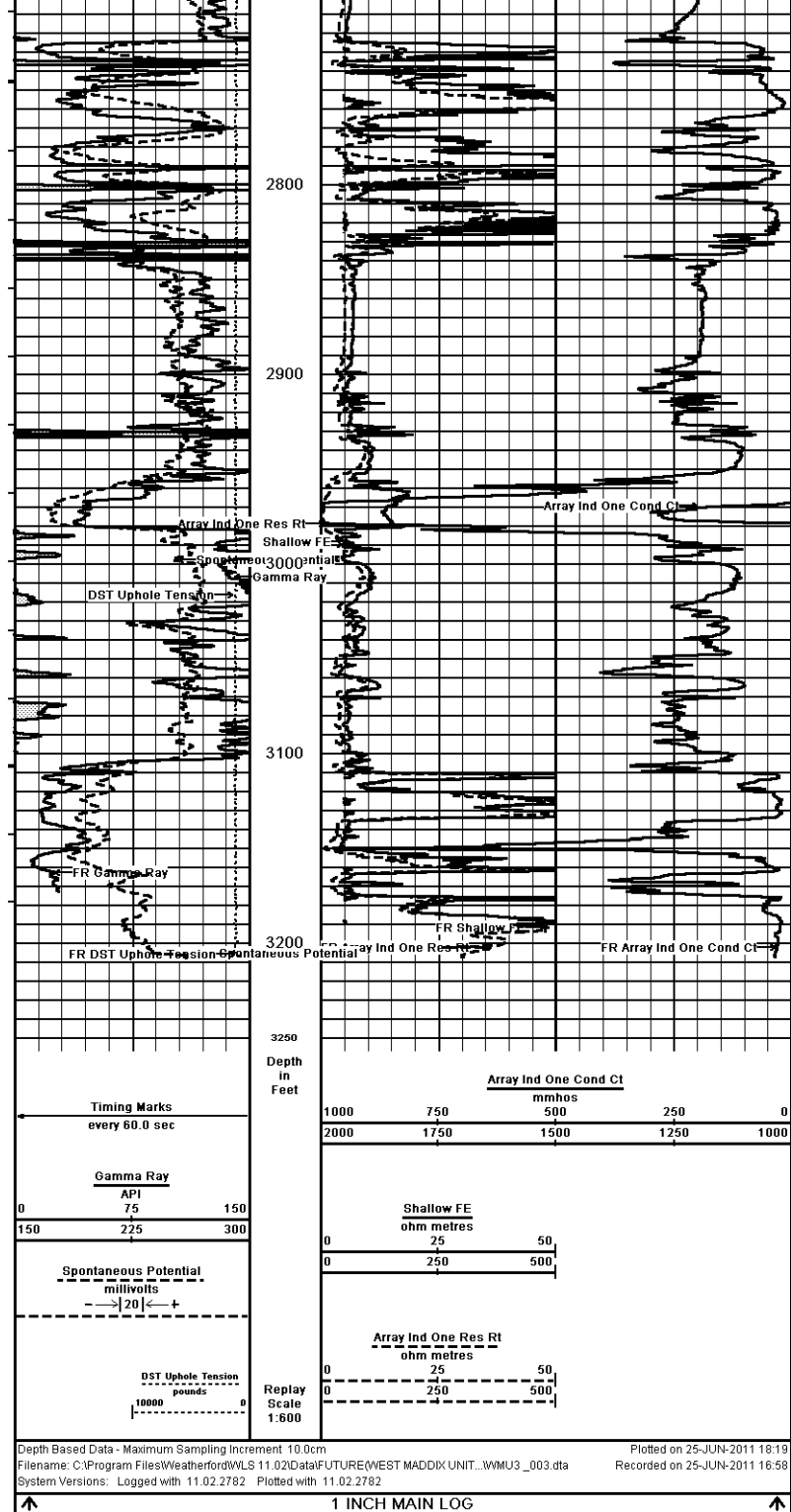
1500

1600

Array Ind Om Cond Ct
Res Rt
Shallow

Spontaneous Potential
Gamma Ray
DST Observation





Timing Marks
every 60.0 sec

Gamma Ray
API
0 75 150
150 225 300

Spontaneous Potential
millivolts
- - - - -
- - - - -

DST Uphole Tension
pounds
10000 0

Array Ind One Cond Ct
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

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 25-JUN-2011 18:19
Filename: C:\Program Files\Weatherford\WLS 11.02\Data\FUTURE\WEST MADDIX UNIT...WMU3_003.dta
Recorded on 25-JUN-2011 16:58
System Versions: Logged with 11.02.2782 Plotted with 11.02.2782

1 INCH MAIN LOG

COMPANY	FUTURE PETROLEUM COMPANY LLC				
WELL	WEST MADDIX UNIT NO. 3				
FIELD	WEST MADDIX UNIT				
PROVINCE/COUNTY	COWLEY				
COUNTRY/STATE	USA/KANSAS				
Elevation Kelly Bushing	1280.00	feet	First Reading	3203.00	feet
Elevation Drill Floor	1278.00	feet	Depth Driller	3204.00	feet
Elevation Ground Level	1270.00	feet	Depth Logger	3206.00	feet



ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG

