



ARRAY INDUCTION - RTAP SHALLOW FOCUSED ELECTRIC LOG

COMPANY				PATARA OIL & GAS LLC			
WELL				ANDY'S MESA FEDERAL #76			
FIELD				ANDY'S MESA			
PROVINCE/COUNTY				SAN MIGUEL			
COUNTRY/STATE				U.S.A. / COLORADO			
LOCATION				SHL: 1467' FSL & 528' FEL BHL: 1791' FSL & 895' FEL			
SEC	TWP	RGE	Other Services				
20	44N	16W	MPD/MDN				
API Number		05-113-06251		SGS			
Permit Number				MSS			
Permanent Datum G.L., Elevation 6417 feet							
Log Measured From K.B. @ 17 FEET above Permanent Datum							
Drilling Measured From K.B.							
Date	20-AUG-2010				Elevations:		
Run Number	ONE				KB	6434.00	
Depth Driller	7118.00				feet		
Depth Logger	7104.00				feet		
First Reading	7101.00						
Last Reading	2571.00						
Casing Driller	2575.00				feet		
Casing Logger	2571.00				feet		
Bit Size	8.750				inches		
Hole Fluid Type	WATER BASED						
Density / Viscosity	9.00 lb/USg		47.00 CP				
PH / Fluid Loss	7.50		6.50 ml/30Min				
Sample Source	FLOW LINE						
Rm @ Measured Temp	1.24 @ 97.2				ohm-m		
Rmf @ Measured Temp	0.99 @ 97.2				ohm-m		
Rmc @ Measured Temp	1.50 @ 97.2				ohm-m		
Source Rmf / Rmc	CALC		CALC				
Rm @ BHT	0.94 @121.0				ohm-m		
Time Since Circulation	6 HOURS						
Max Recorded Temp	121.00				deg F		
Equipment Name	COMPACT						
Equipment / Base	13173		GD JCT				
Recorded By	R. BROWN				M. GOODMAN		
Witnessed By	L. GIRNDT						

BOREHOLE RECORD			Last Edited: 19-AUG-2010 14:01	
Bit Size inches	Depth From feet		Depth To feet	
8.750	2571.00		7118.00	
CASING RECORD				
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	2571.00	36.00

REMARKS	
TOOLS: SHA, MCG, SGS, MDN, MPD, MSS, SKJ, MFE, AND MAI RAN IN COMBINATION	
HARDWARE: MPD: (1) 8 INCH PROFILE PLATE MAI: (1) 0.5 INCH STANDOFF MDN: (1) DUAL BOWSPRING MSS: (2) 0.5 ONCH STANDOFF	
2.71 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY.	
ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.	
TIGHT PULLS, BOREHOLE SIZE, AND RUGOSITY WILL AFFECT REPEATABILITY AND DATA QUALITY.	
RUN 1: BRIDGED ENCOUNTERED AT APPROXIMATELY 5577 FEET. LOGS WERE THEN PULLED FROM THIS DEPTH UP TO ATTEMPT ANOTHER LOGGING RUN ONCE RIG PERFORMED WIPER TRIP.	
RUN 2: LOGS WENT TO BOTTOM.	
RUN 3: FORMATION TESTER.	

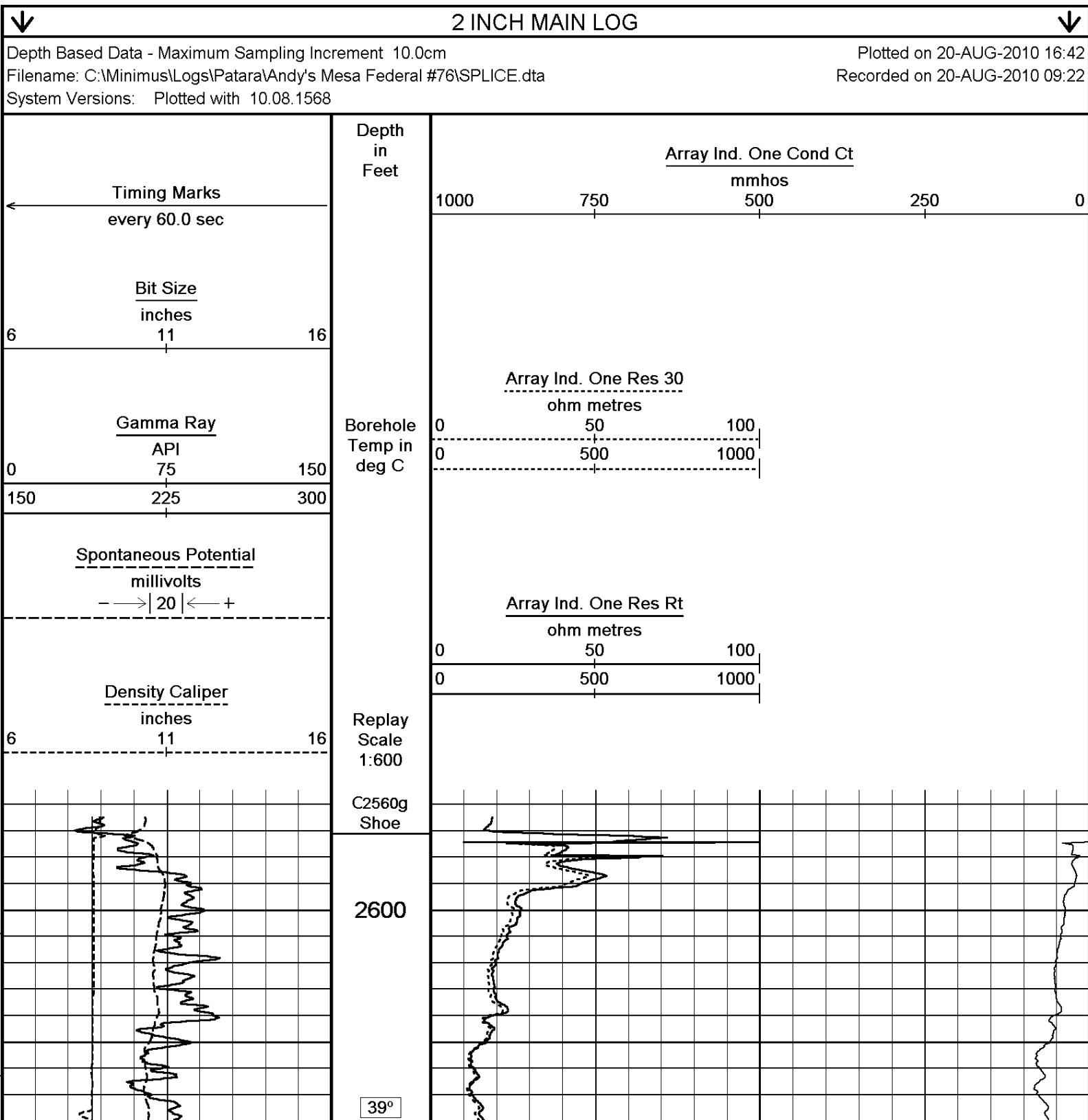
TOTAL HOLE VOLUME FROM T.D. TO SURFACE CASING = 2074 CU.FT.

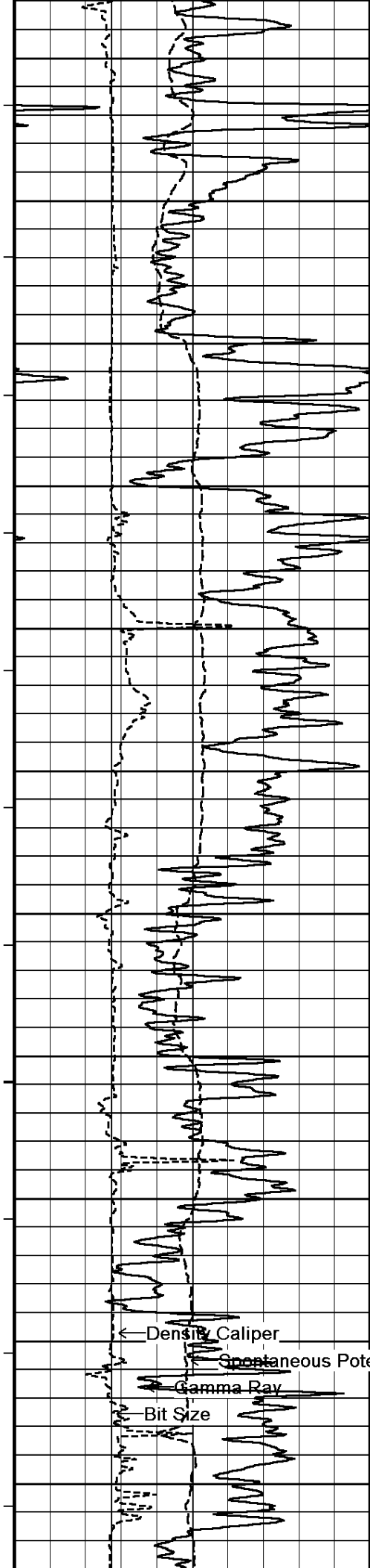
ANNULAR VOLUME WITH 5.5 INCH PRODUCTION CASING FROM T.D. TO SURFACE CASING = 1375 CU.FT.

SERVICE ORDER: #3526101

RIG: LW # 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.





2700

40°

2800

40°

2900

40°

3000

41°

3100

Array Ind. One Res Rt

Array Ind. One Res 30

Array Ind. One Cond Ct

Density Caliper

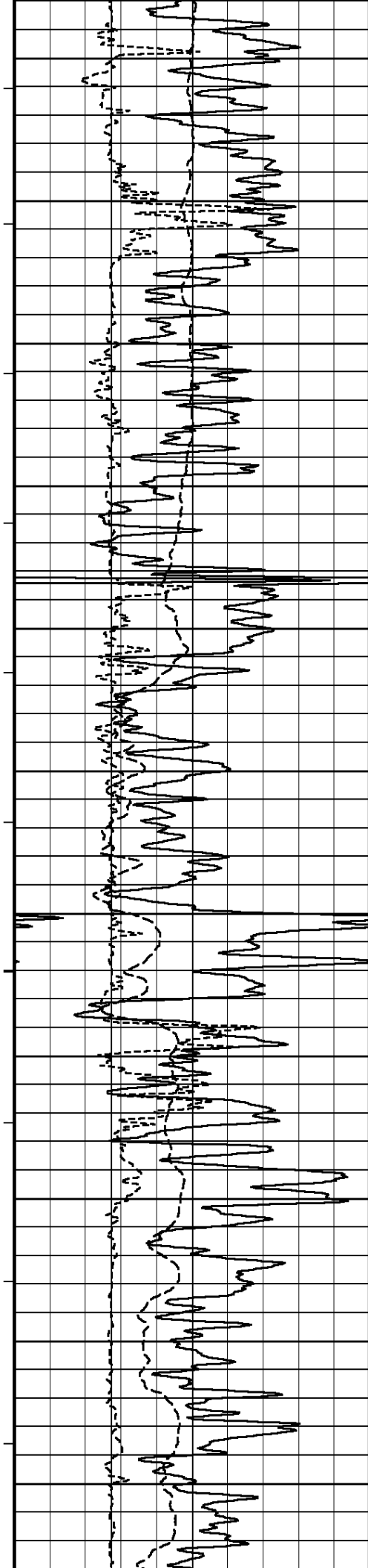
Spontaneous Potential

Gamma Ray

Bit Size

41°

3200



42°

3300

42°

3400

42°

3500

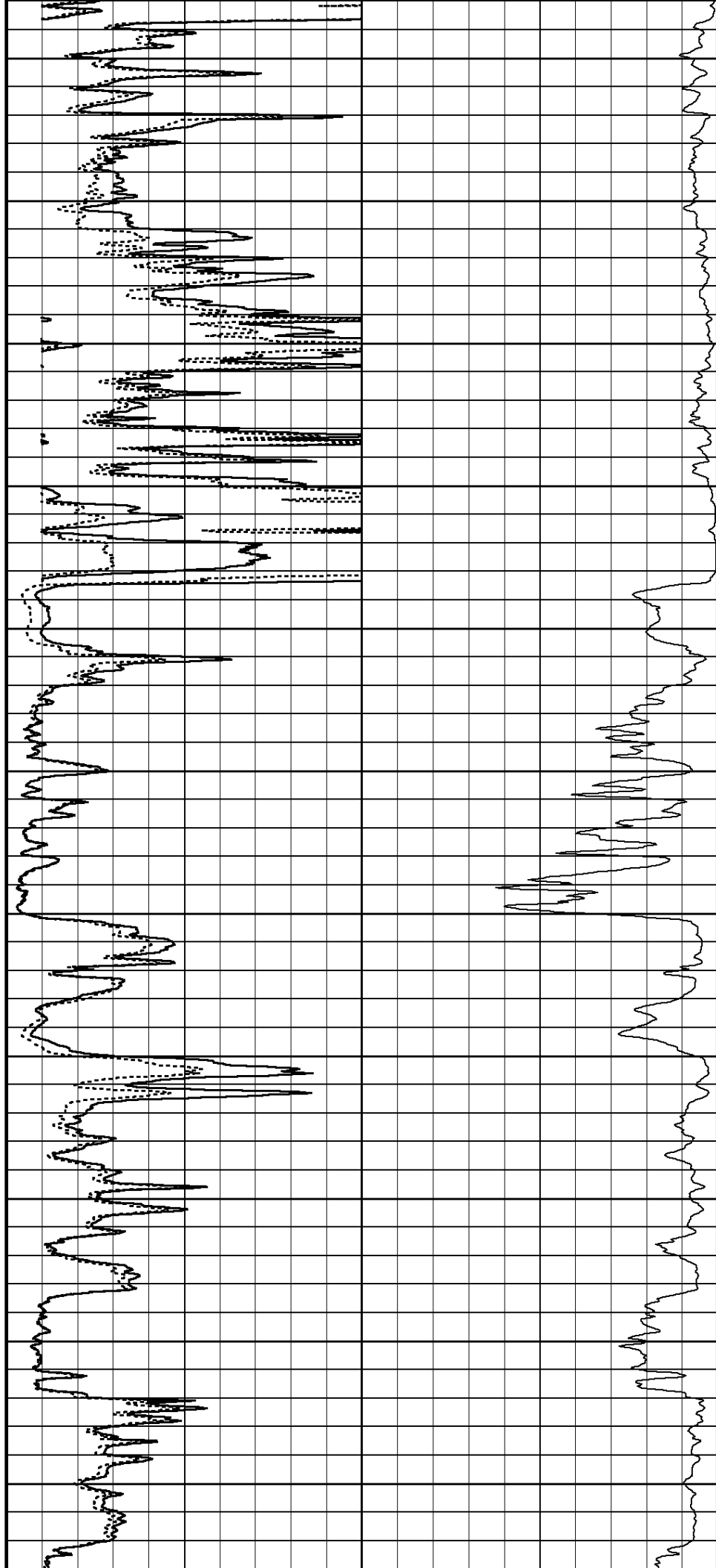
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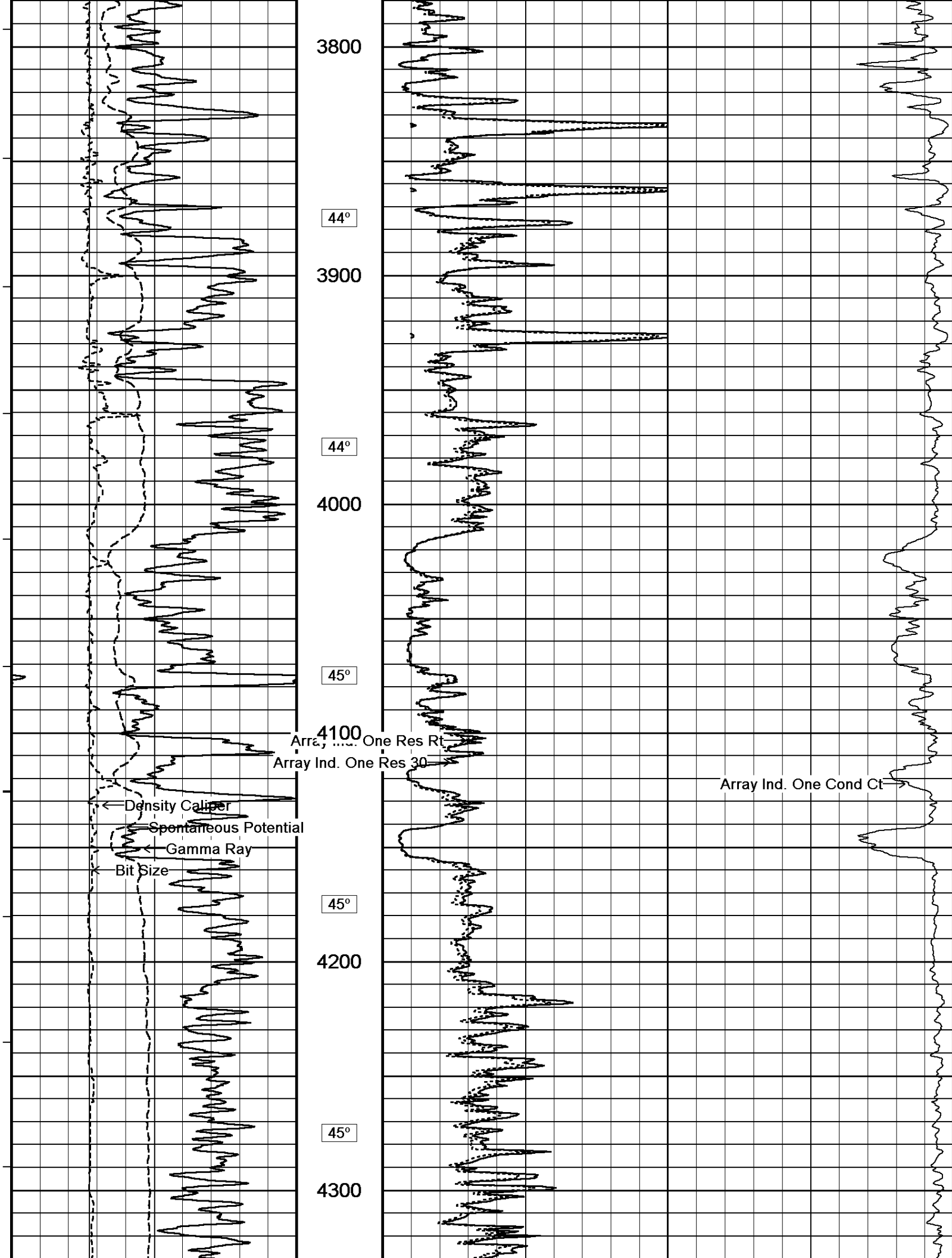
3600

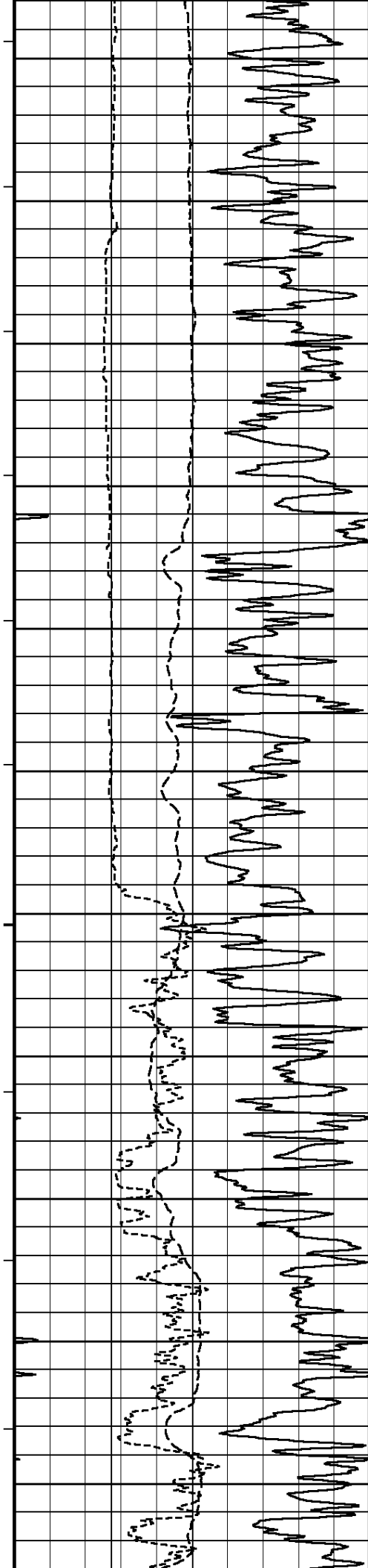
43°

3700

44°







46°

4400

46°

4500

47°

4600

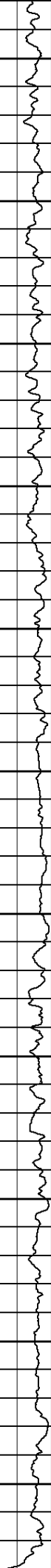
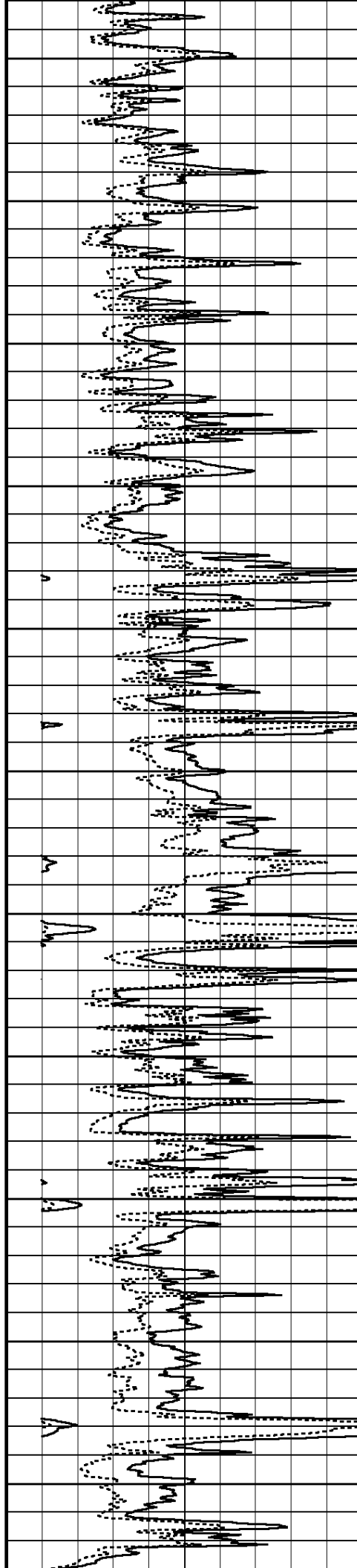
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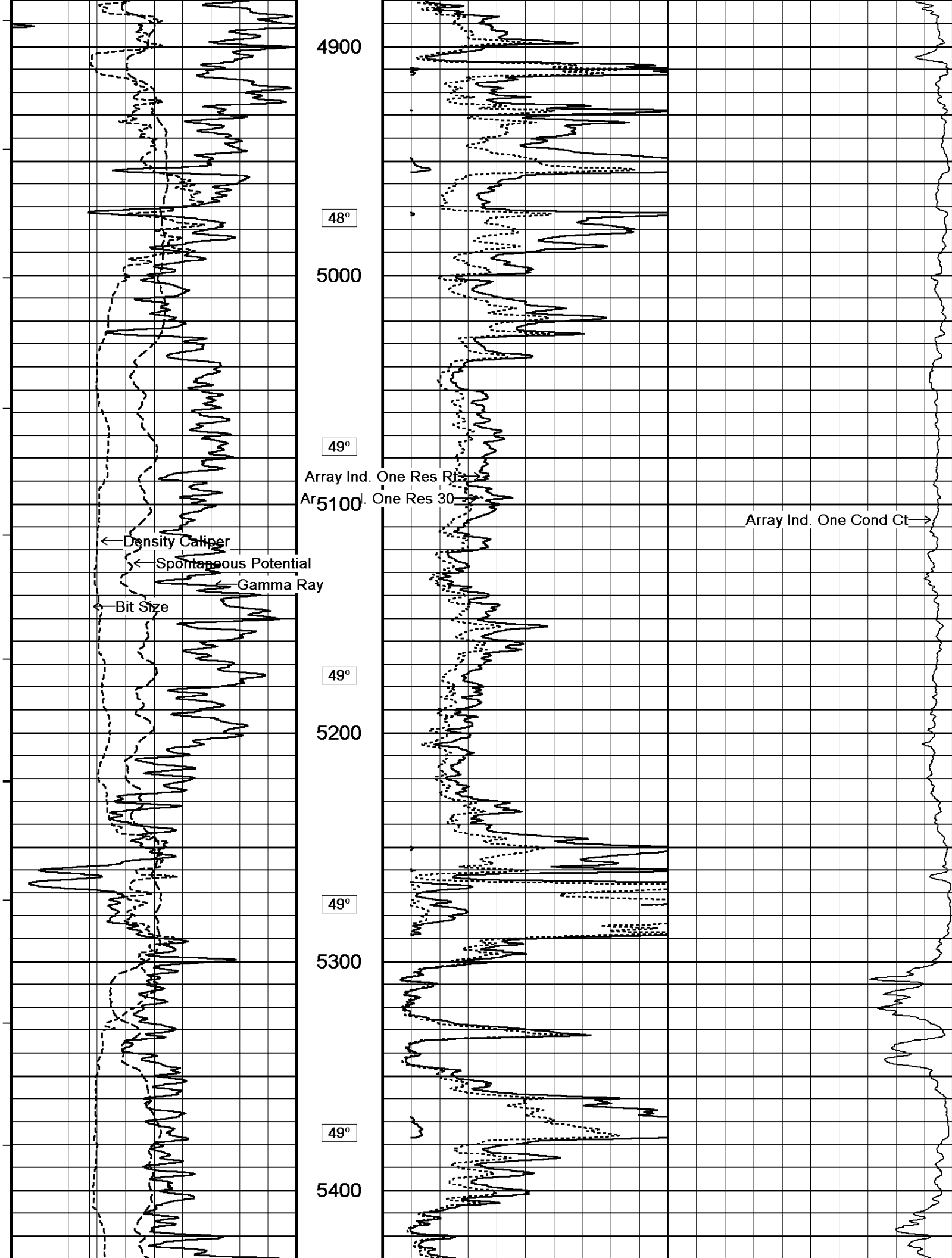
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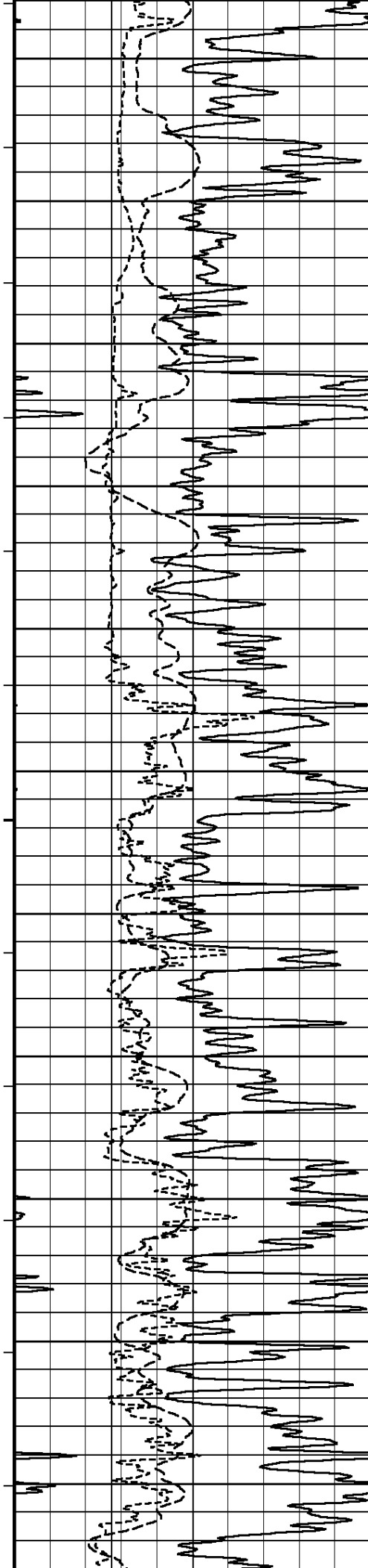
48°

4800

48°







50°

5500

49°

5600

50°

5700

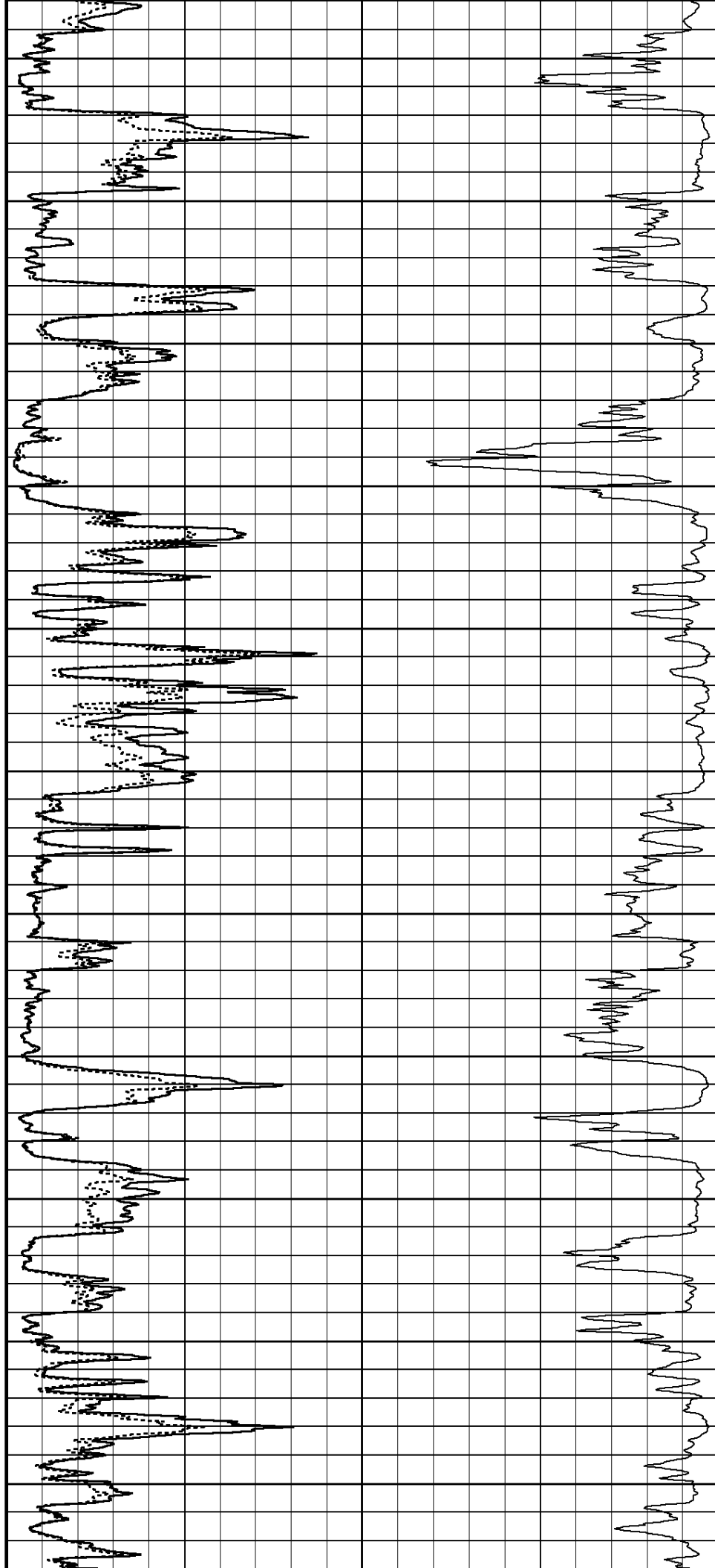
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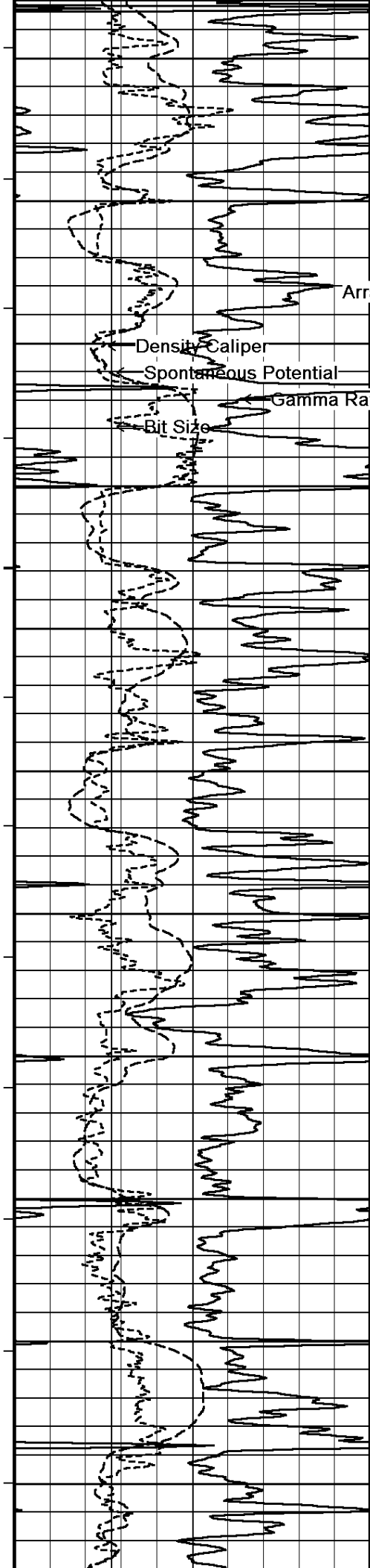
5800

50°

5900

51°





6000

Array Ind. One Res R₁ 7

Array Ind. One Res 30

6100

Density Caliper

Spontaneous Potential

Gamma Ray

Bit Size

52°

6200

52°

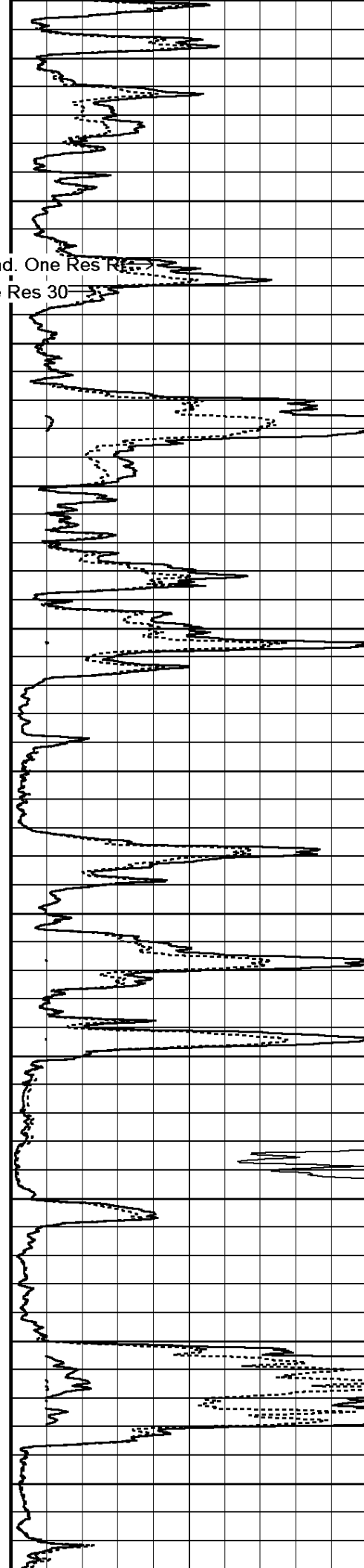
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53°

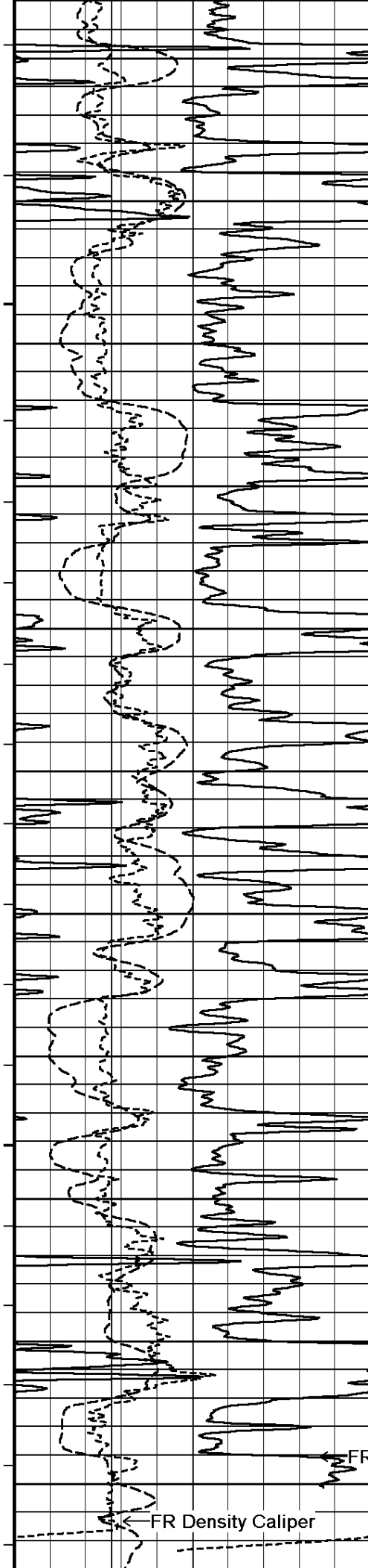
6400

53°

6500



Array Ind. One Cond Ct



53°

6600

53°

6700

54°

6800

54°

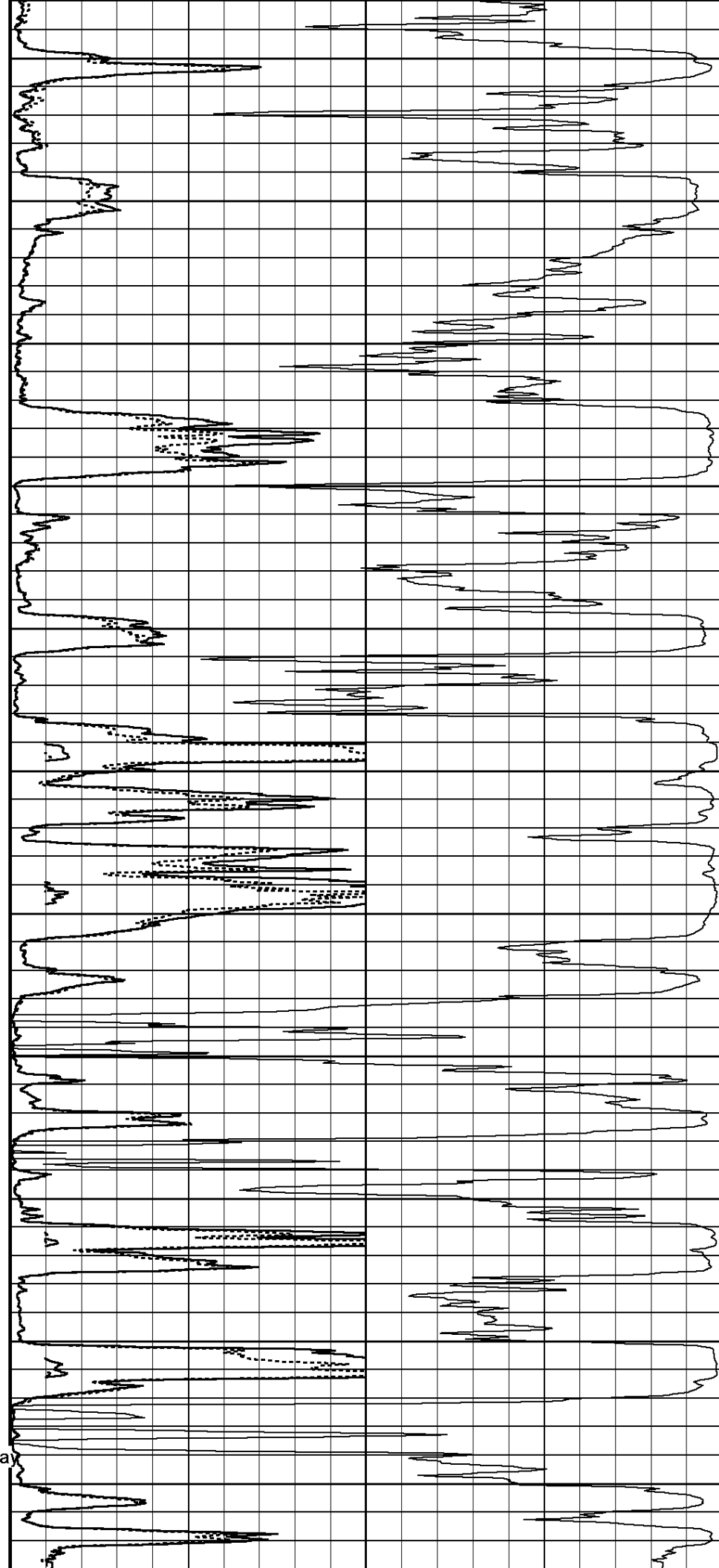
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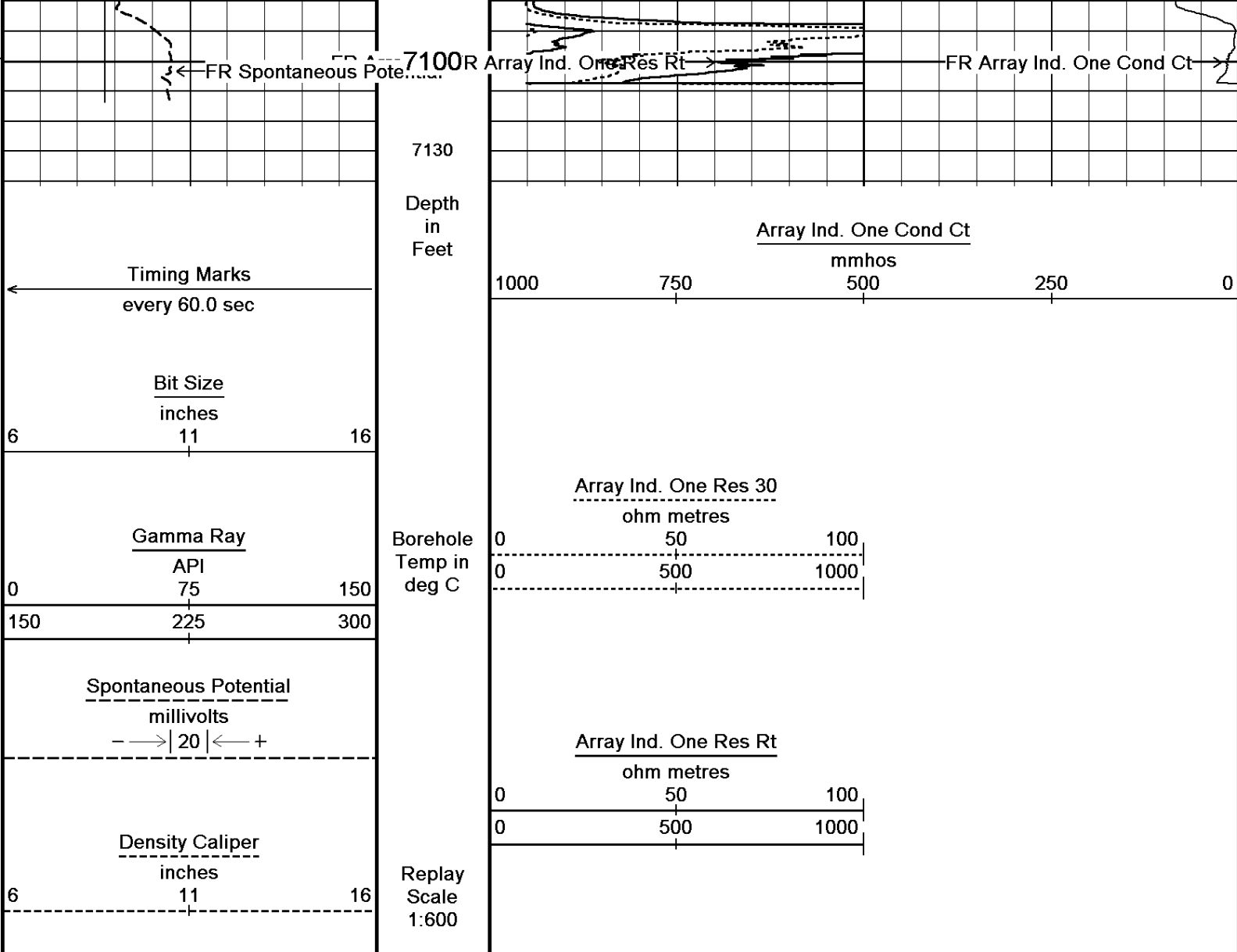
54°

7000

FR Gamma Ray

FR Density Caliper



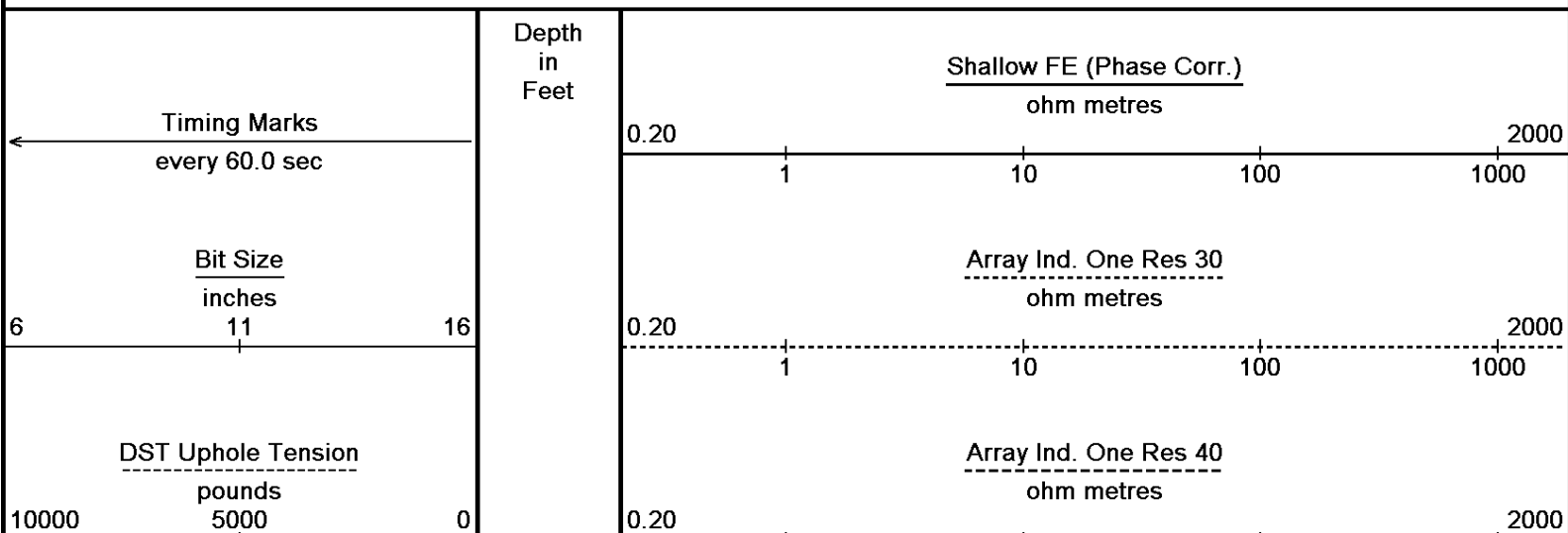


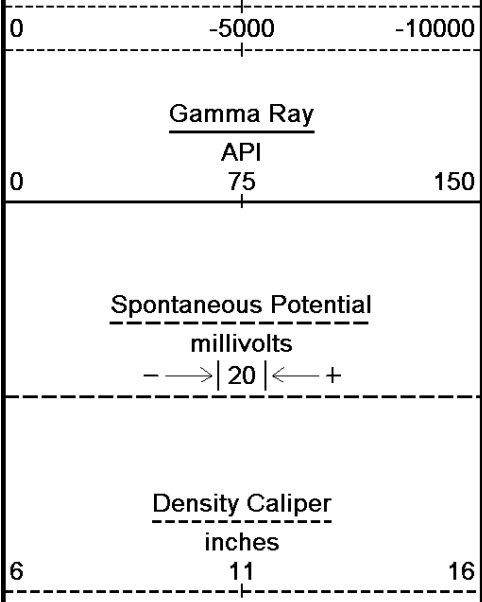
Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 20-AUG-2010 16:42
Filename: C:\Minimus\Logs\Patarat\Andy's Mesa Federal #76\SPLICE.dta Recorded on 20-AUG-2010 09:22
System Versions: Plotted with 10.08.1568

2 INCH MAIN LOG

5 INCH MAIN LOG

Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 20-AUG-2010 16:42
Filename: C:\Minimus\Logs\Patarat\Andy's Mesa Federal #76\SPLICE.dta Recorded on 20-AUG-2010 09:22
System Versions: Plotted with 10.08.1568





Borehole
Temp in
deg F

Replay
Scale
1:240

2564
Casing
Shoe

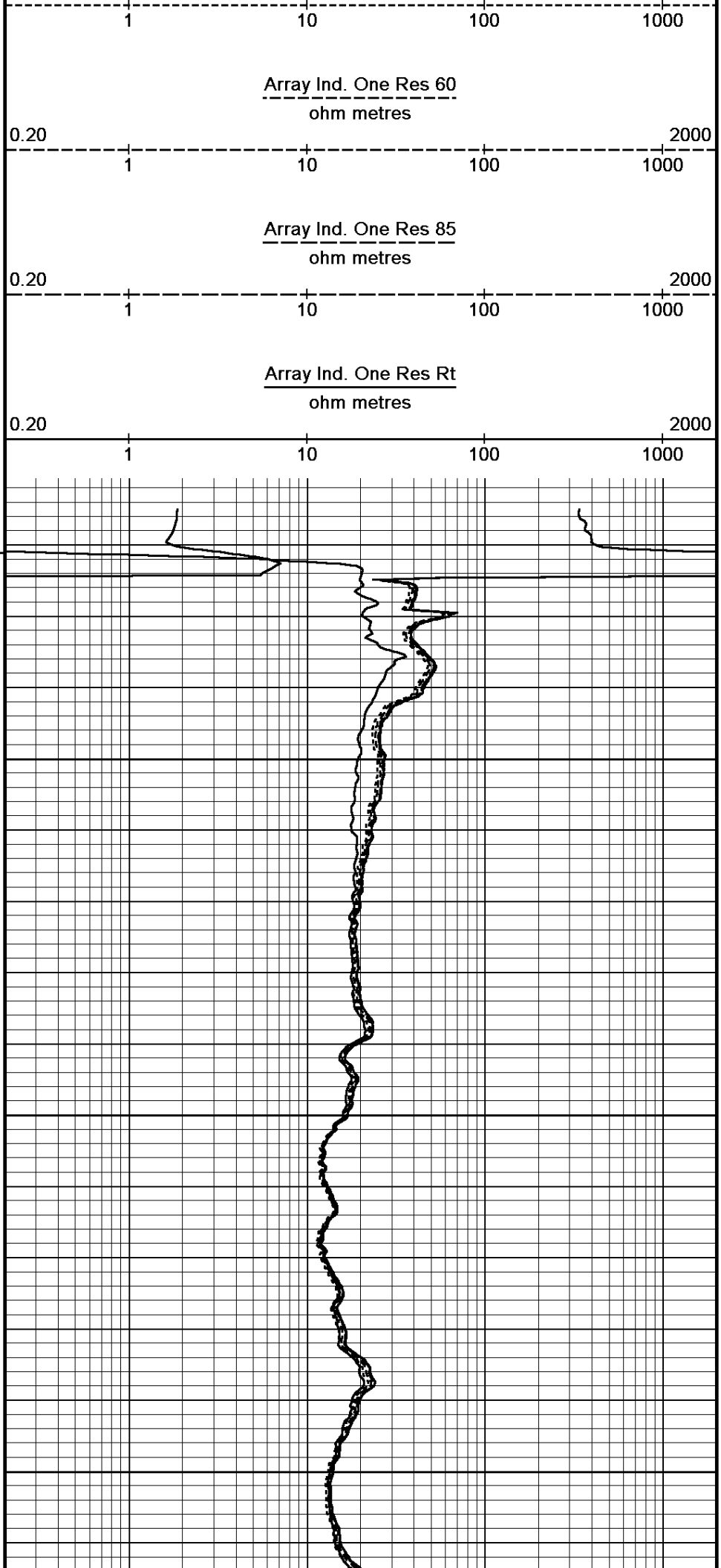
2600

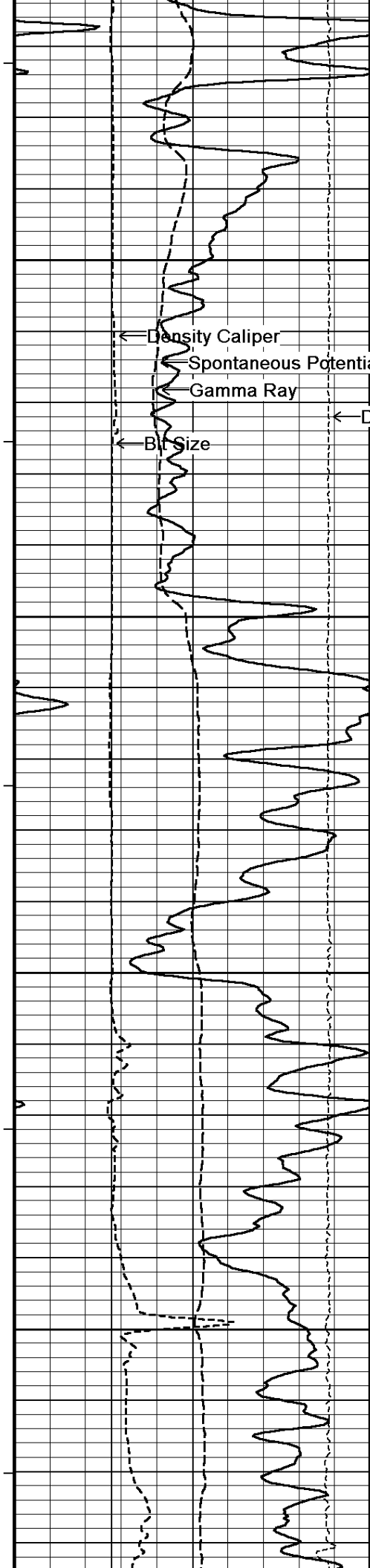
102°

2650

102°

2700





103°

2750

103°

2800

104°

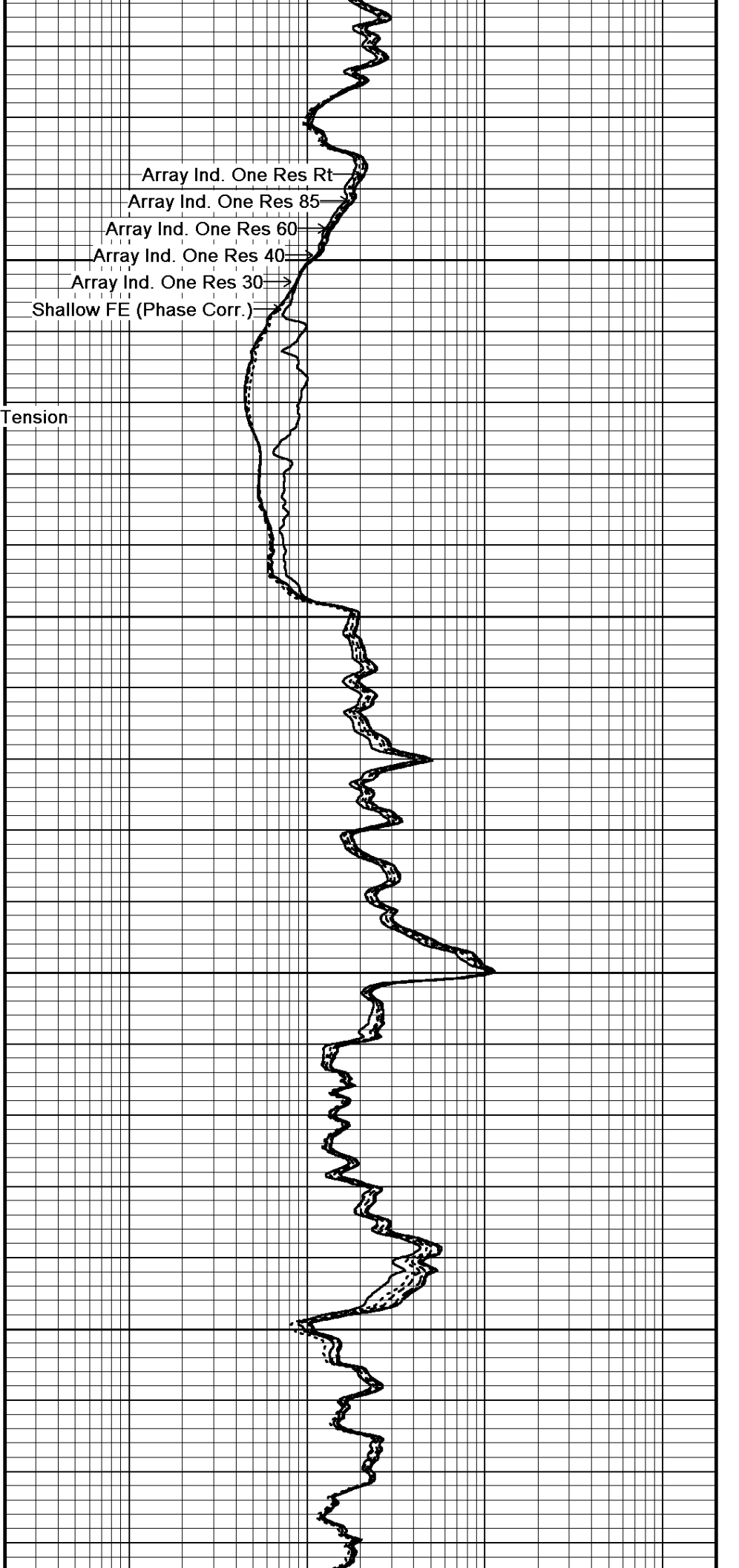
2850

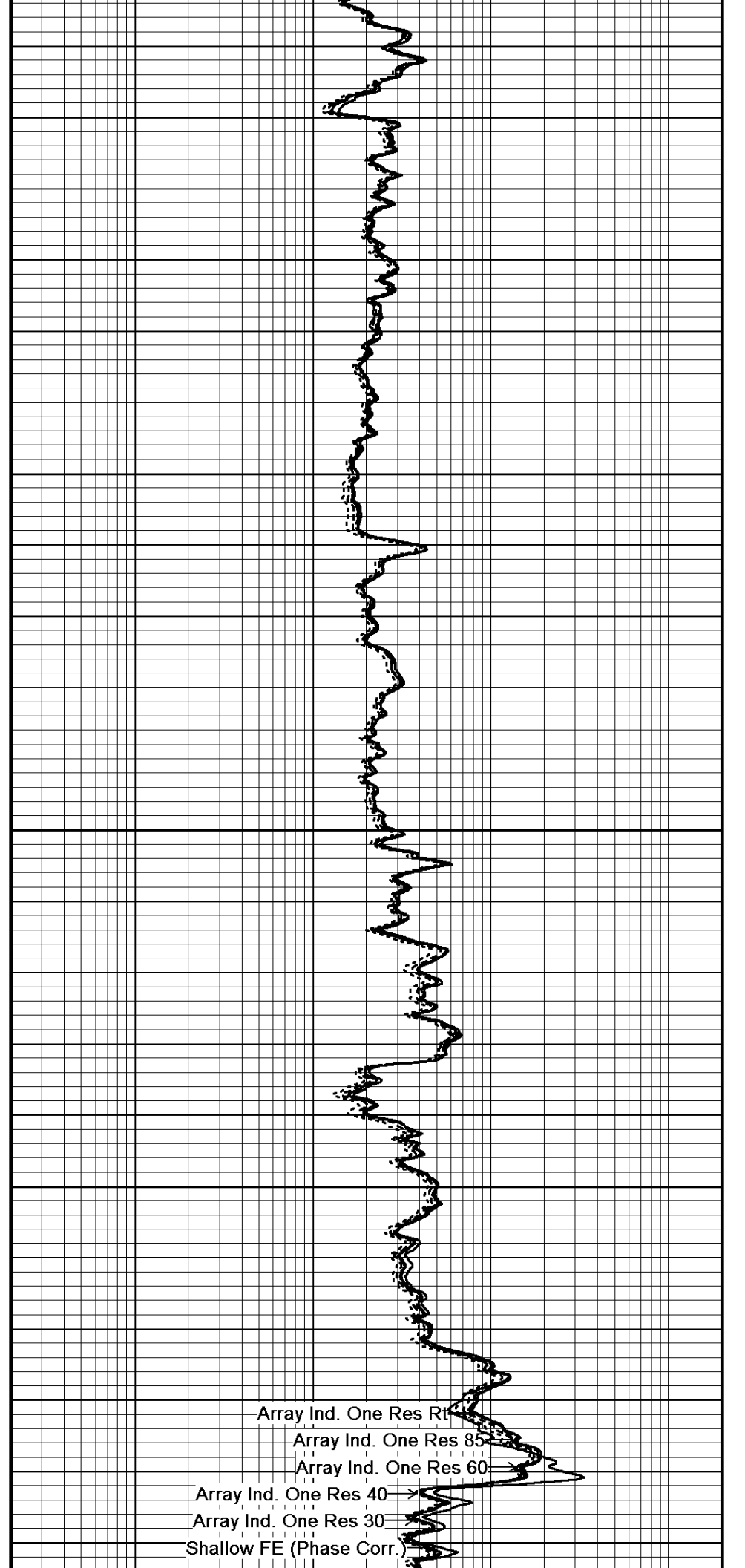
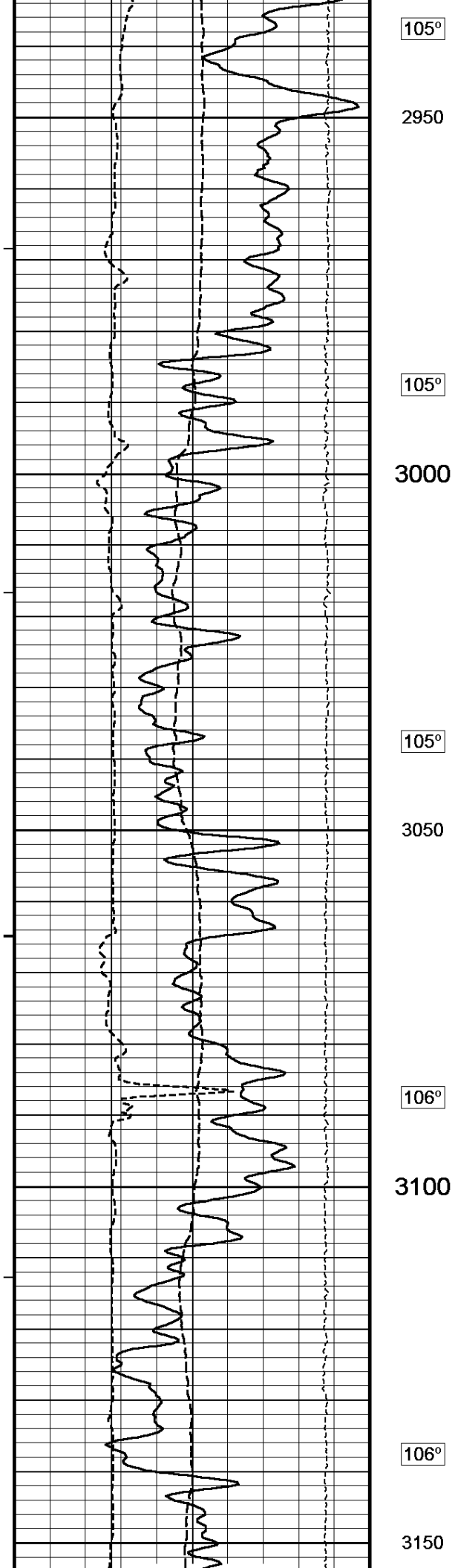
104°

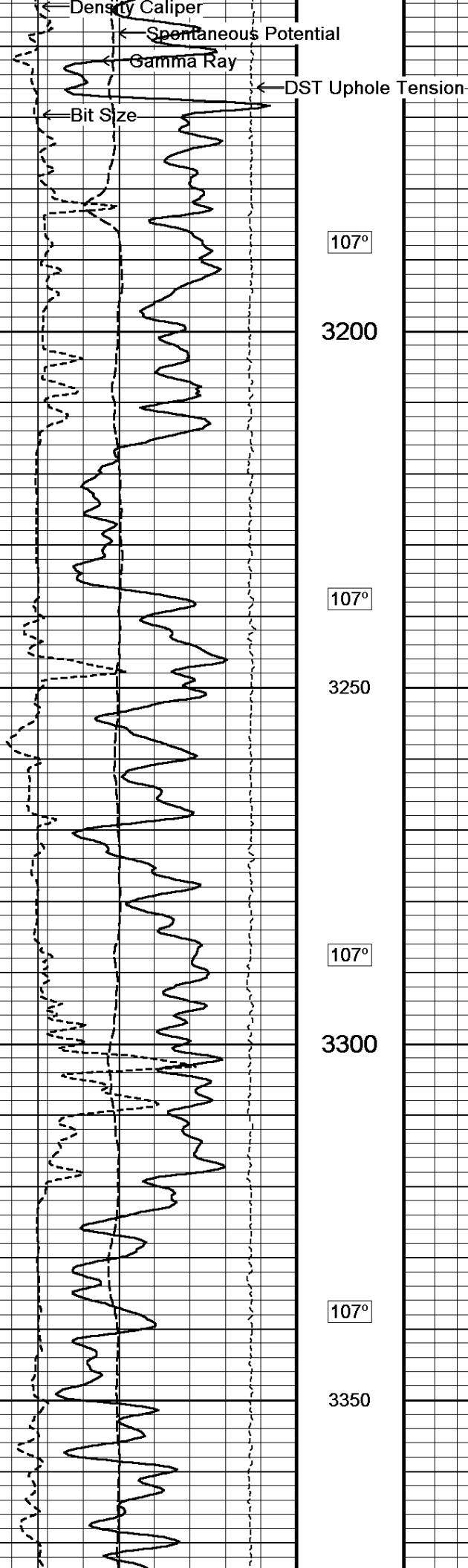
2900

Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)

← DST Uphole Tension







107°

3200

107°

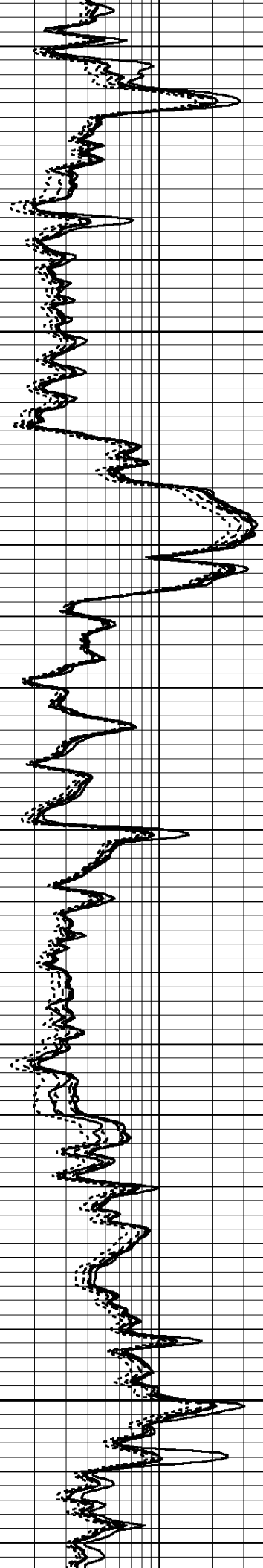
3250

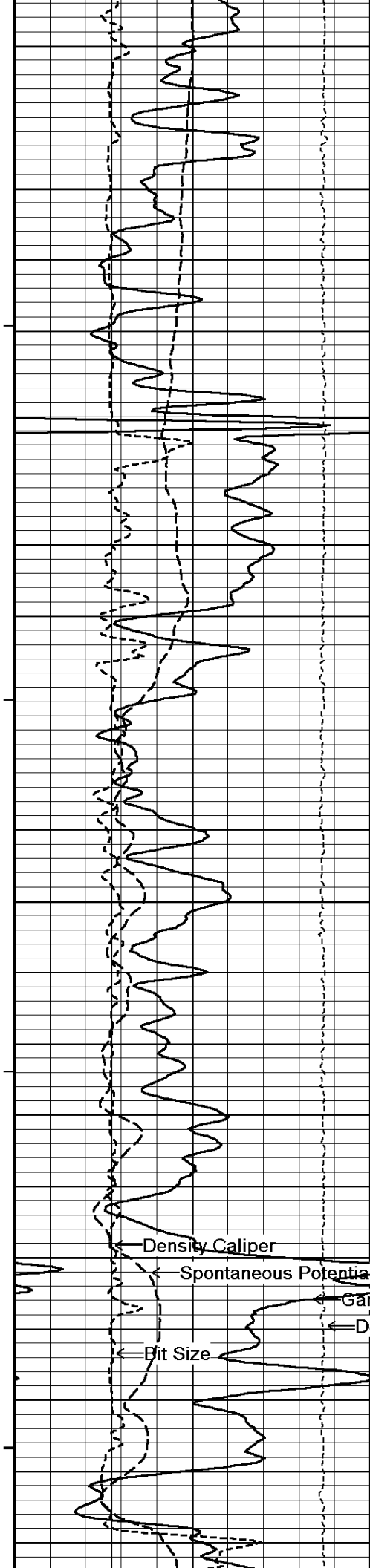
107°

3300

107°

3350





108°

3400

108°

3450

108°

3500

109°

3550

109°

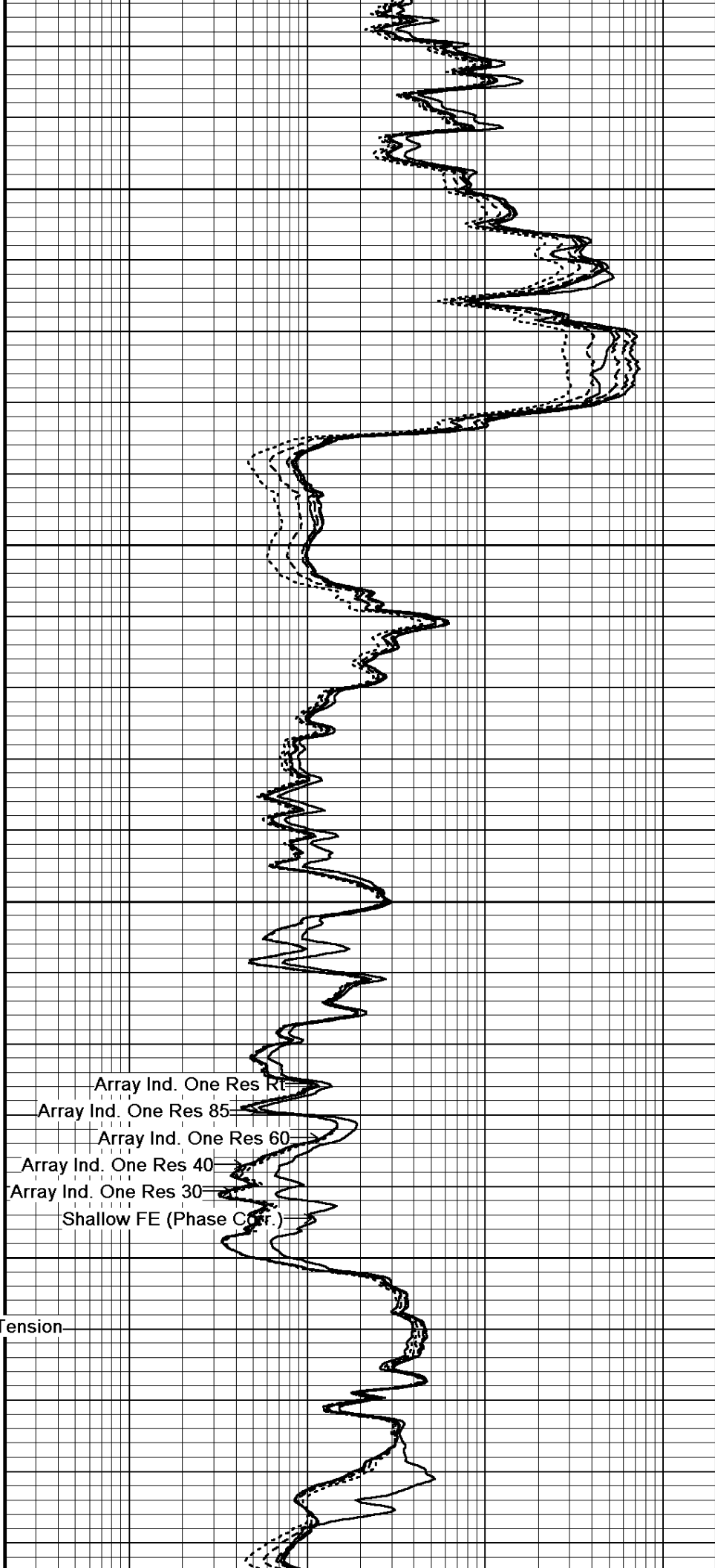
Density Caliper

Spontaneous Potential

Gamma Ray

Bit Size

DST Uphole Tension



Array Ind. One Res Rt

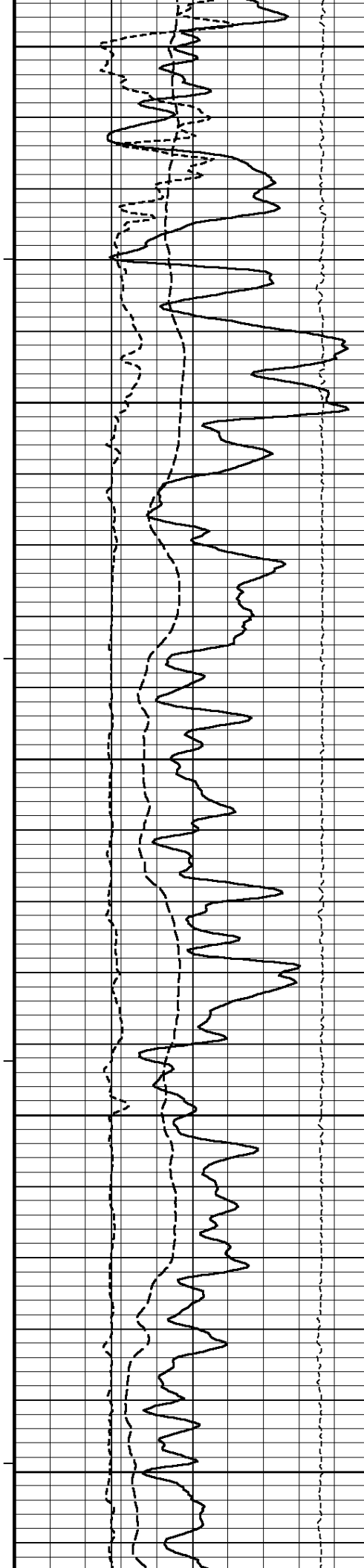
Array Ind. One Res 85

Array Ind. One Res 60

Array Ind. One Res 40

Array Ind. One Res 30

Shallow FE (Phase Corr.)



3600

109°

3650

110°

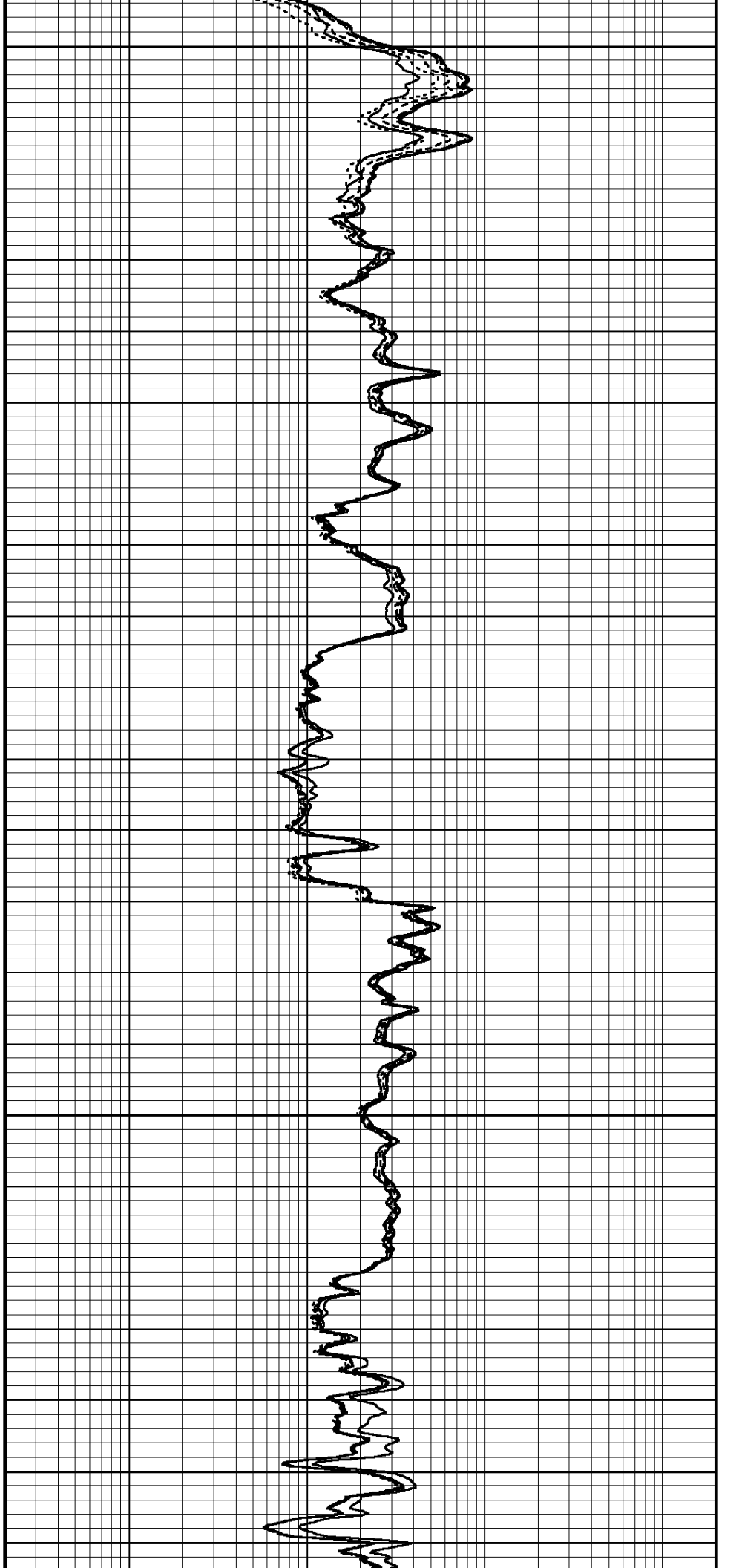
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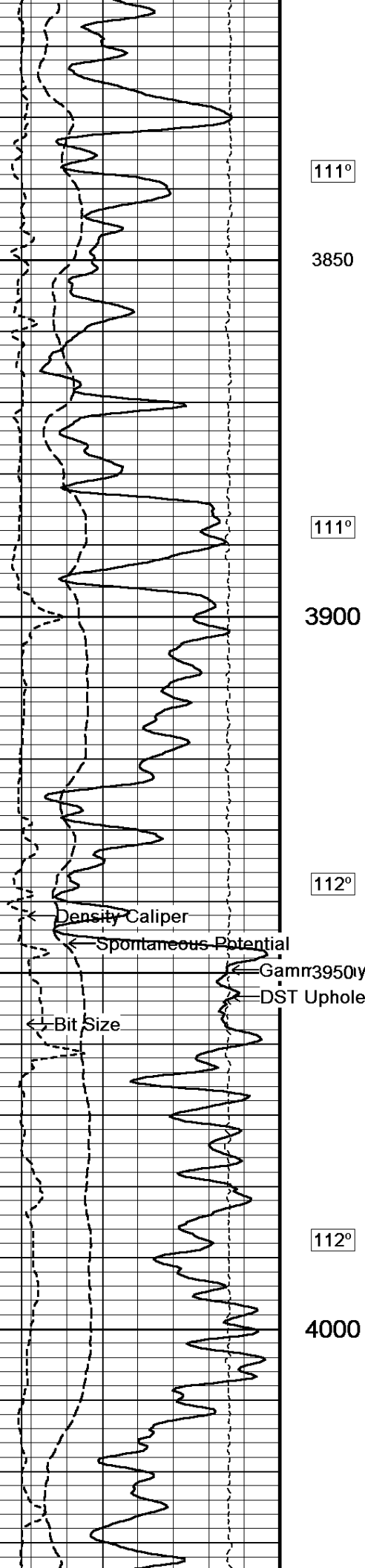
110°

3750

110°

3800





111°

3850

111°

3900

112°

112°

4000

Density Caliper

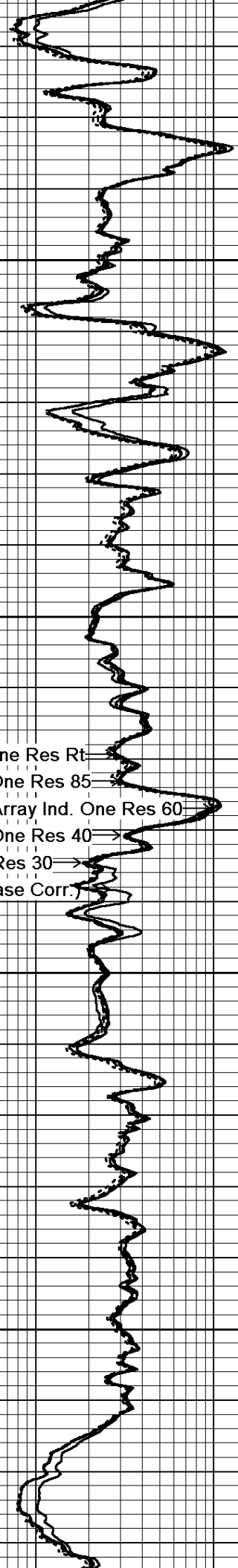
Spontaneous Potential

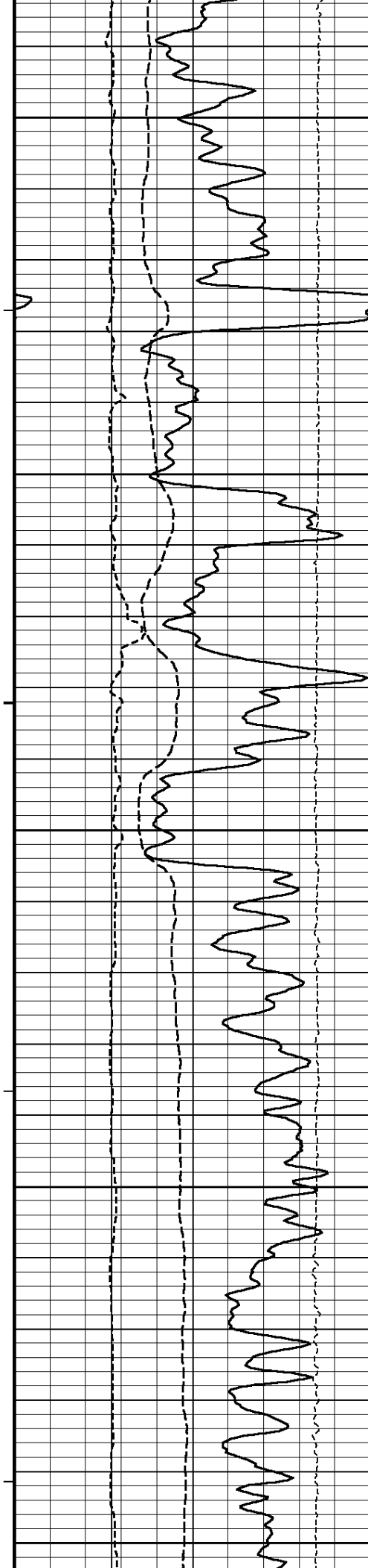
Gamr3950y

DST Uphole Tension

Bit Size

Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)





112°

4050

113°

4100

113°

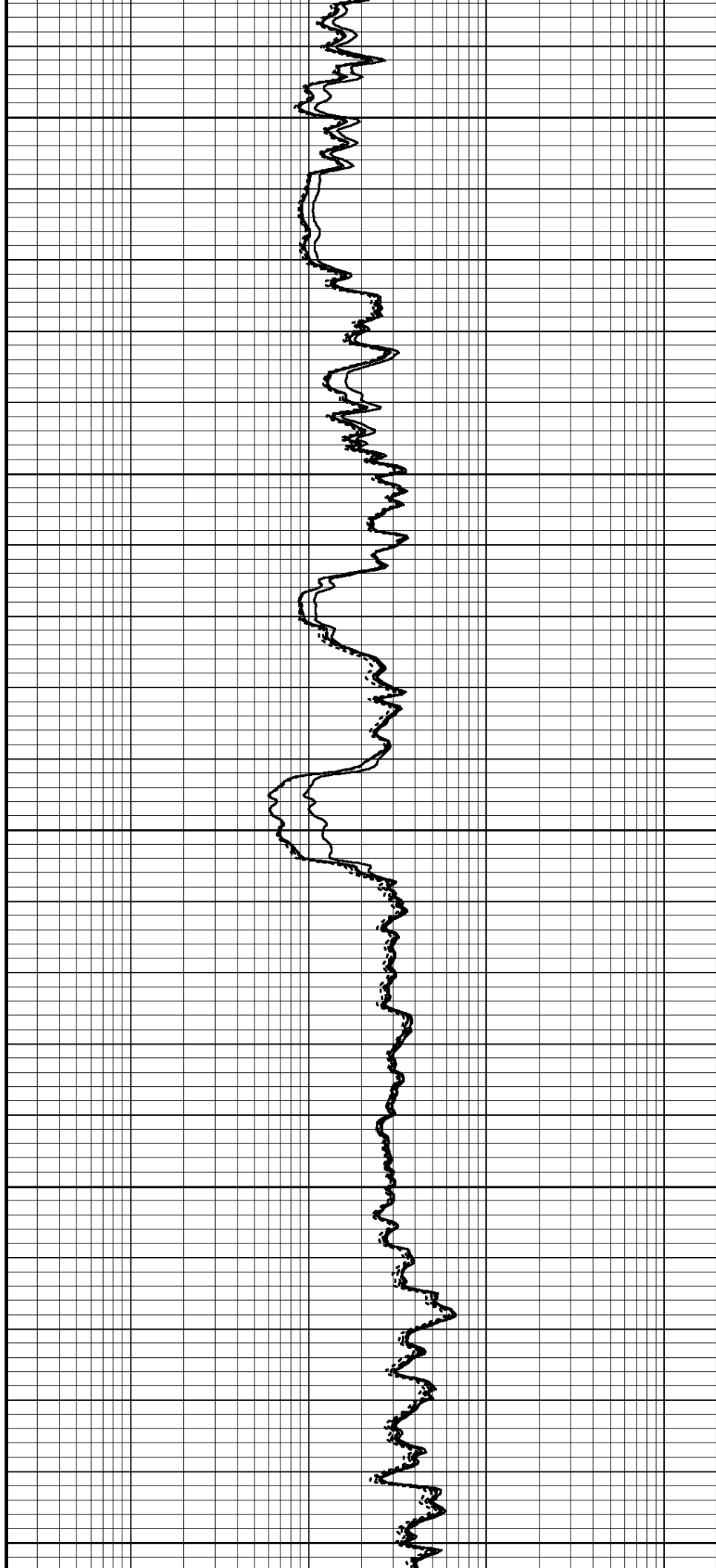
4150

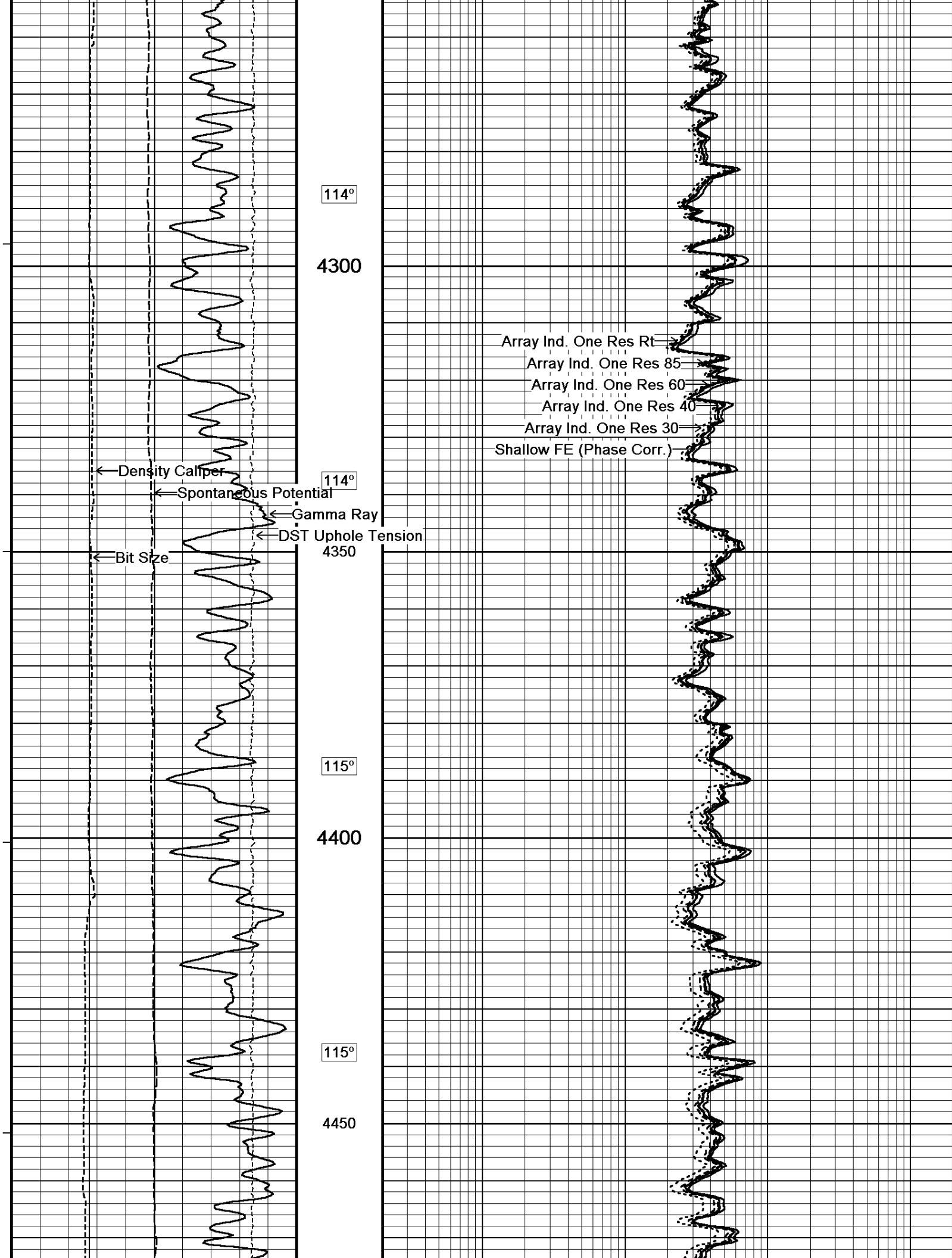
113°

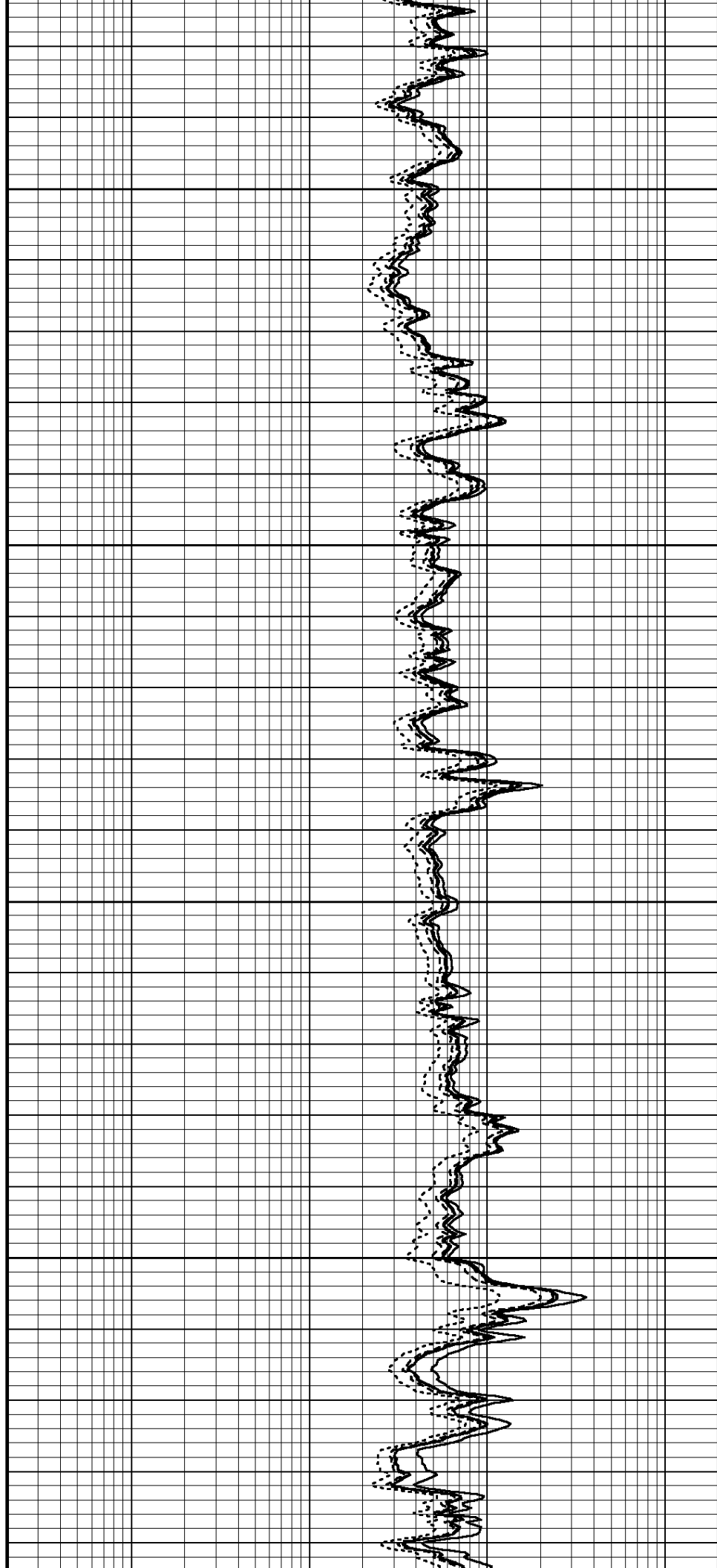
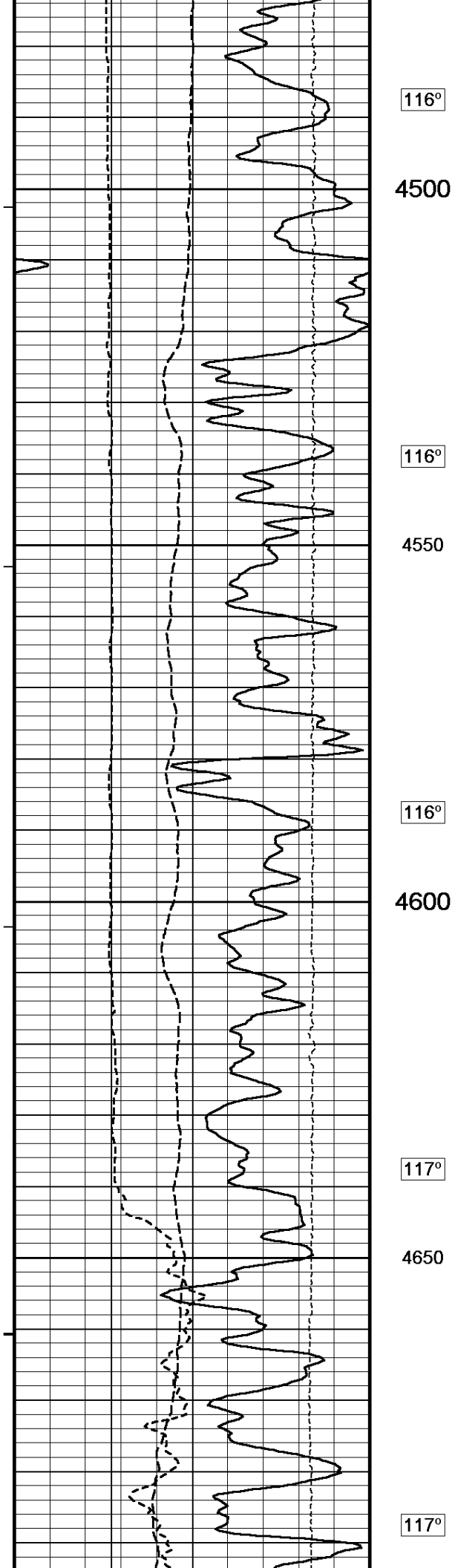
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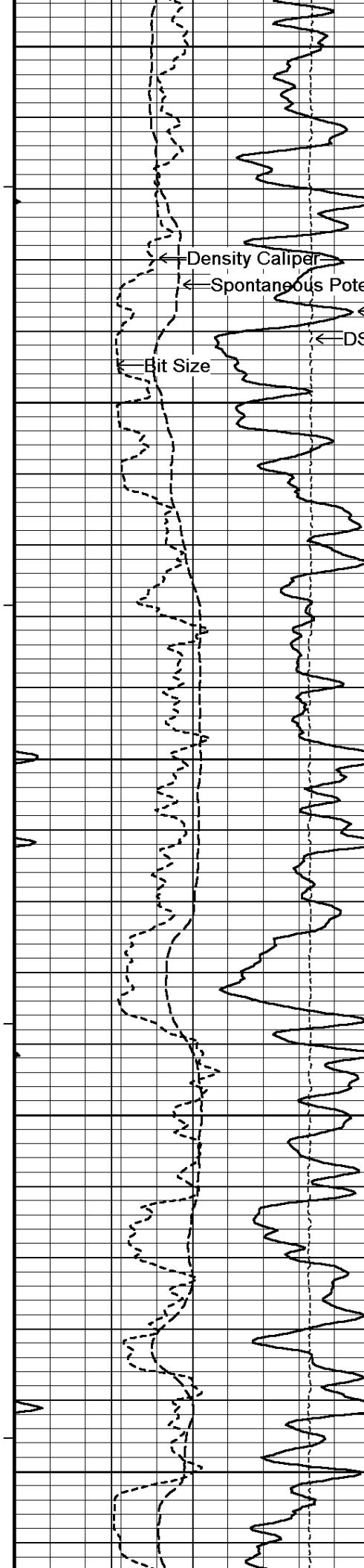
114°

4250









4700

4750

118°

4800

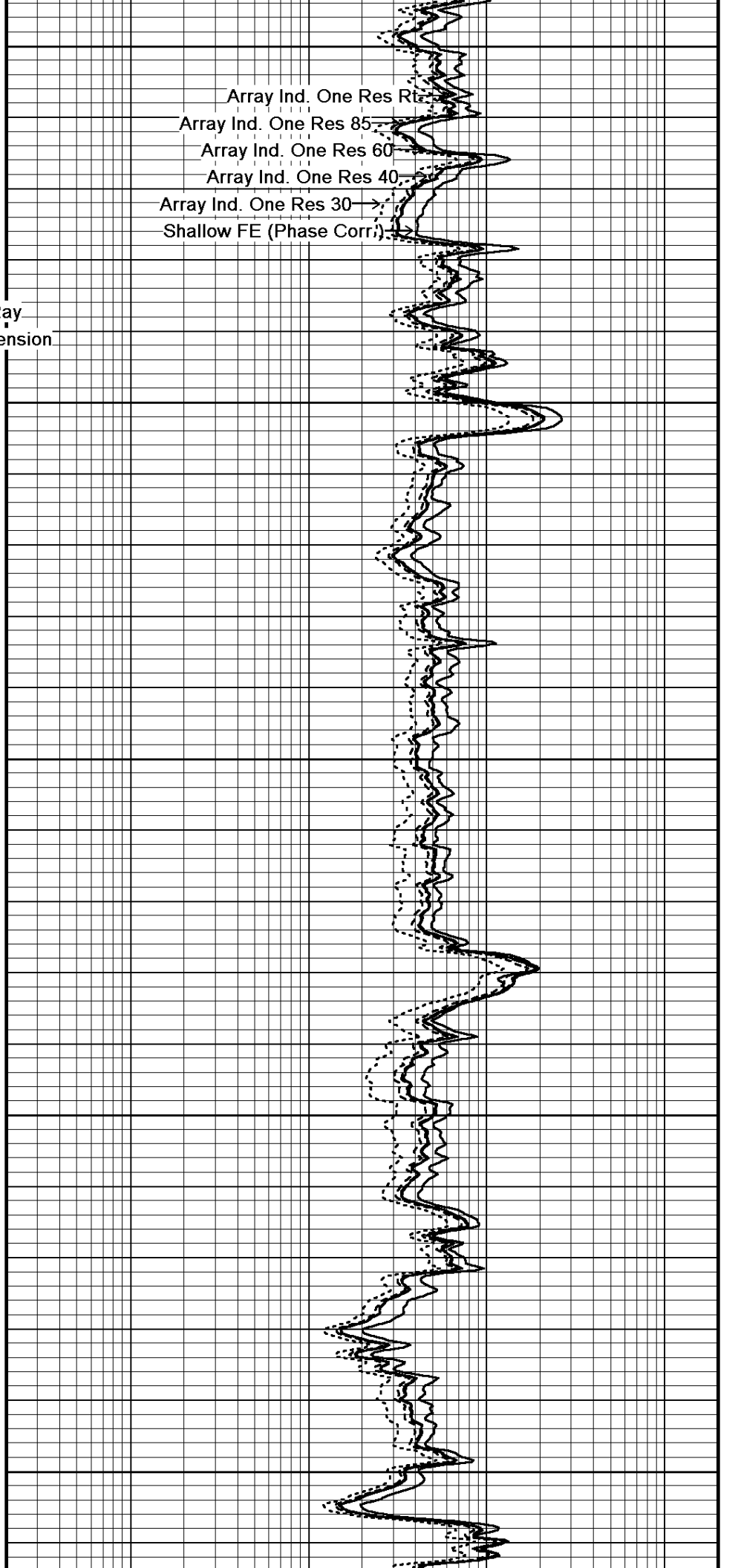
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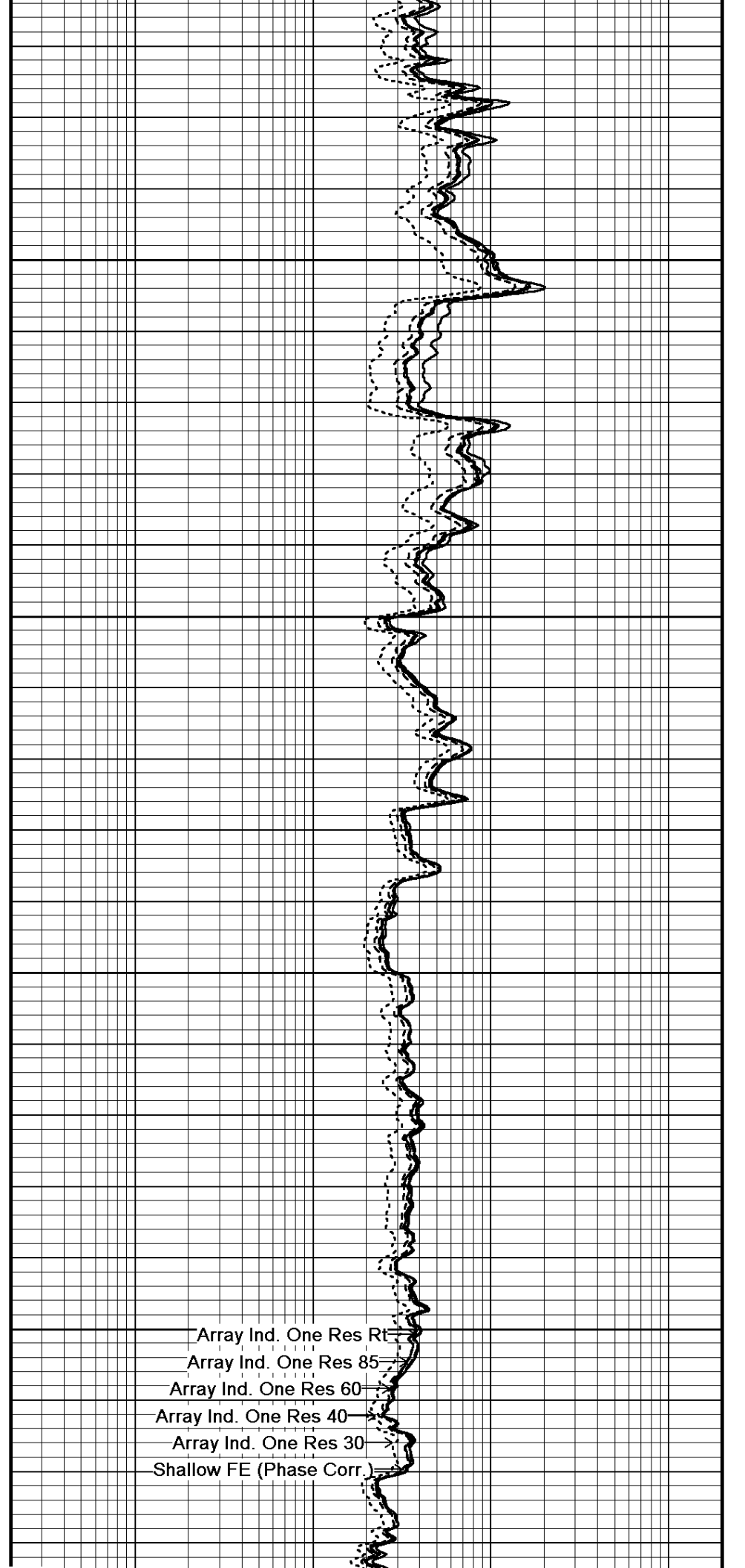
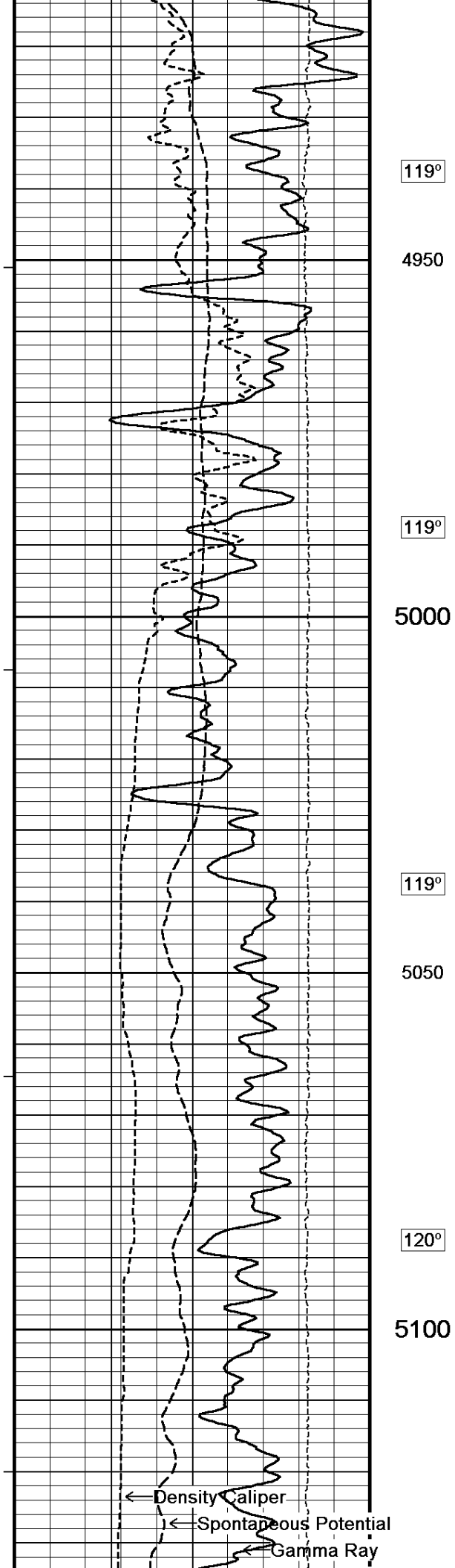
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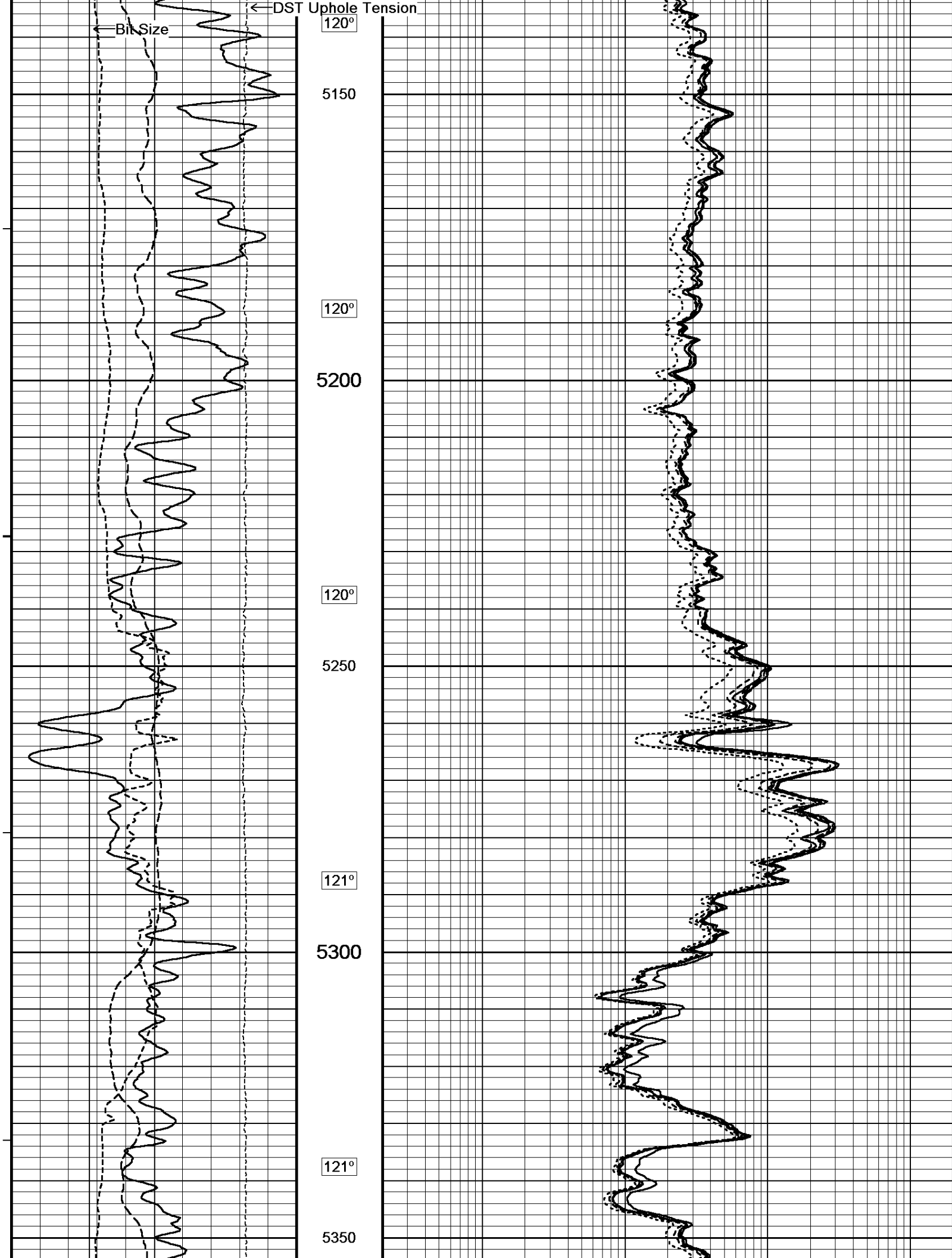
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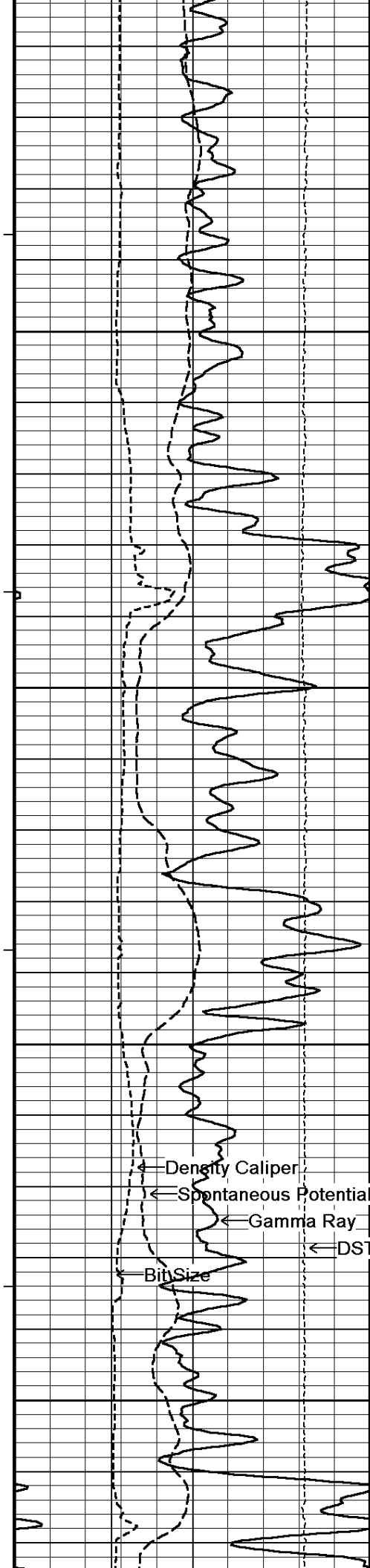
4900

Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corri)









121°

5400

121°

5450

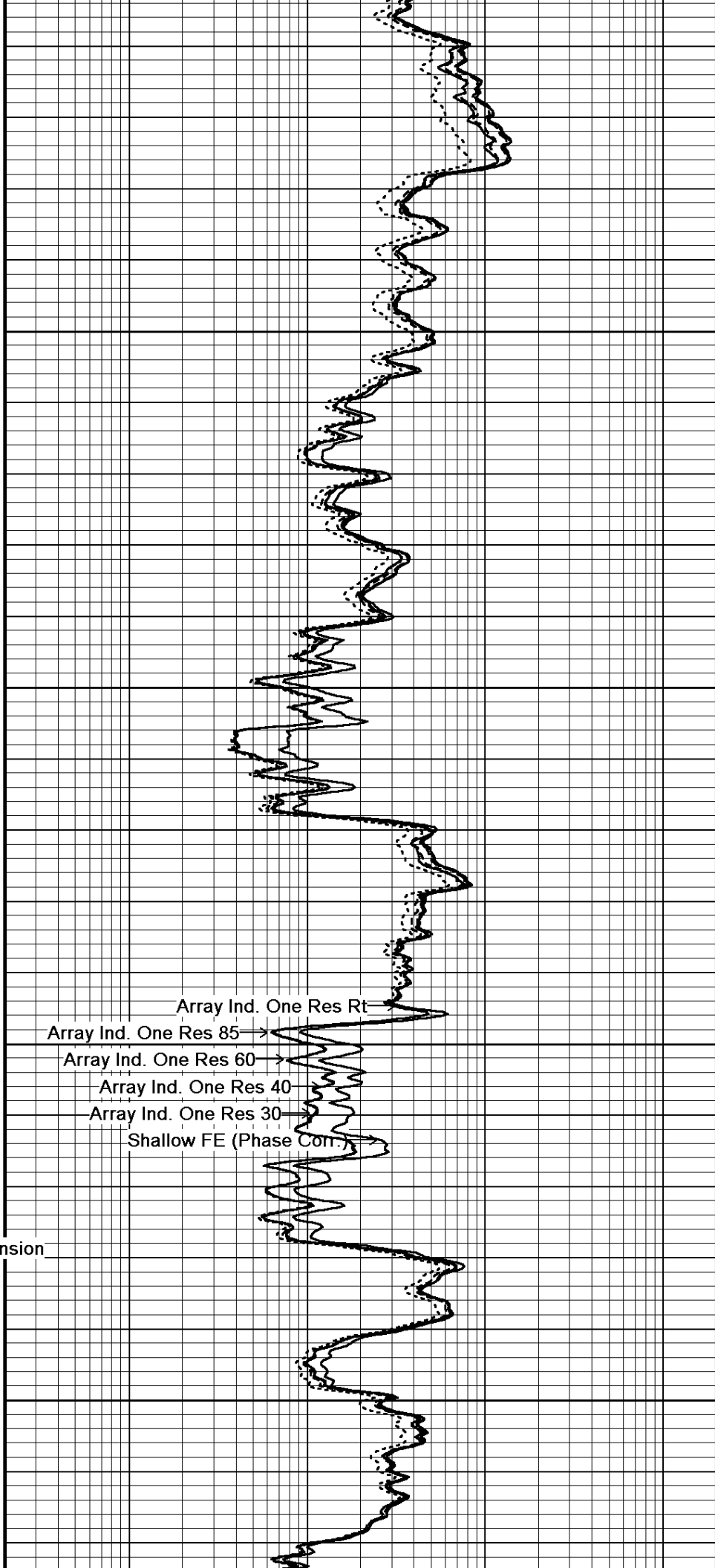
120°

5500

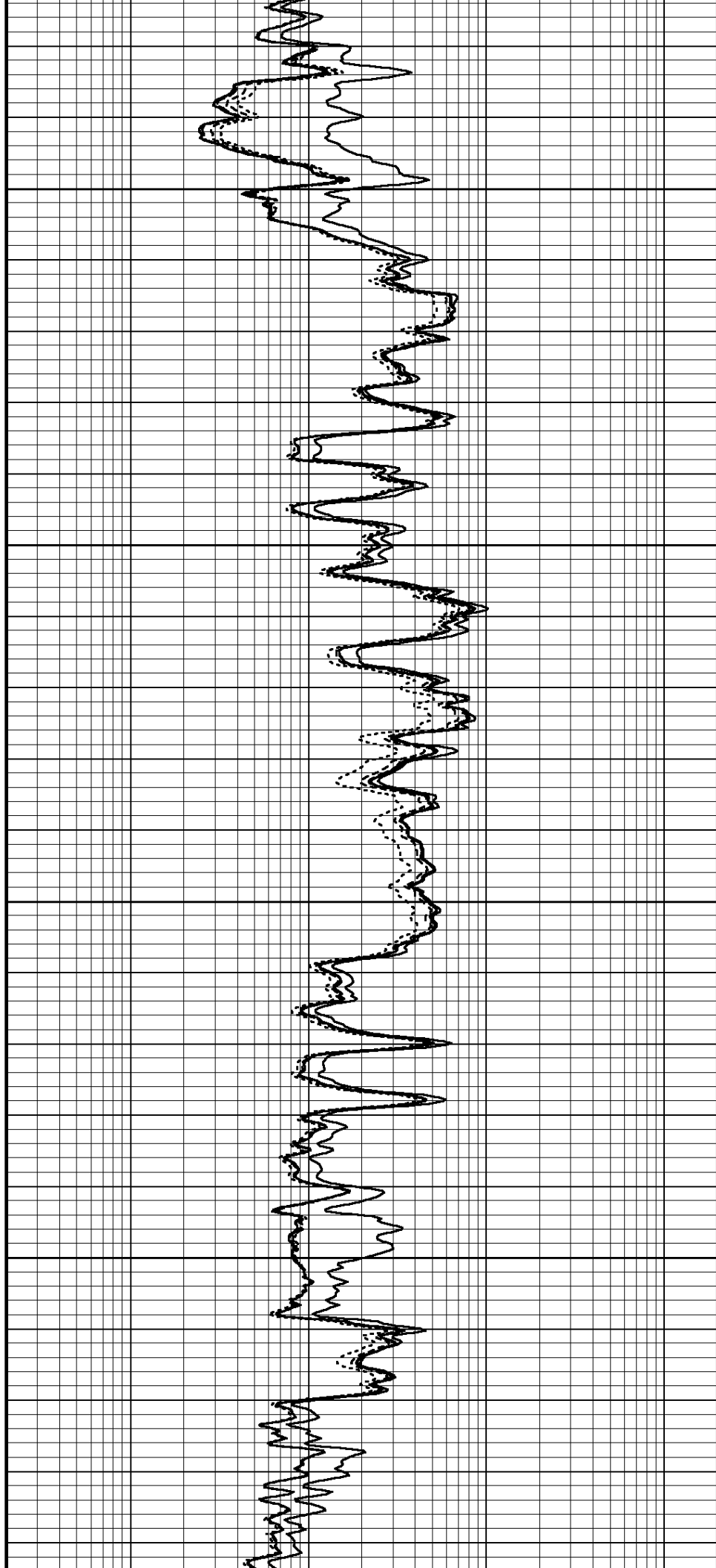
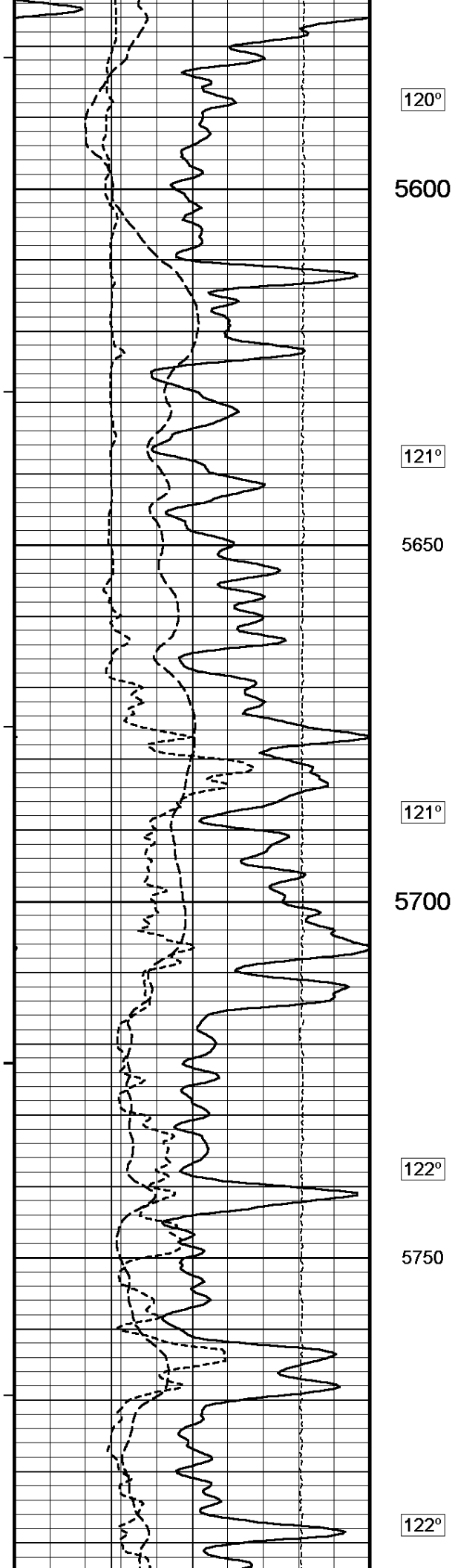
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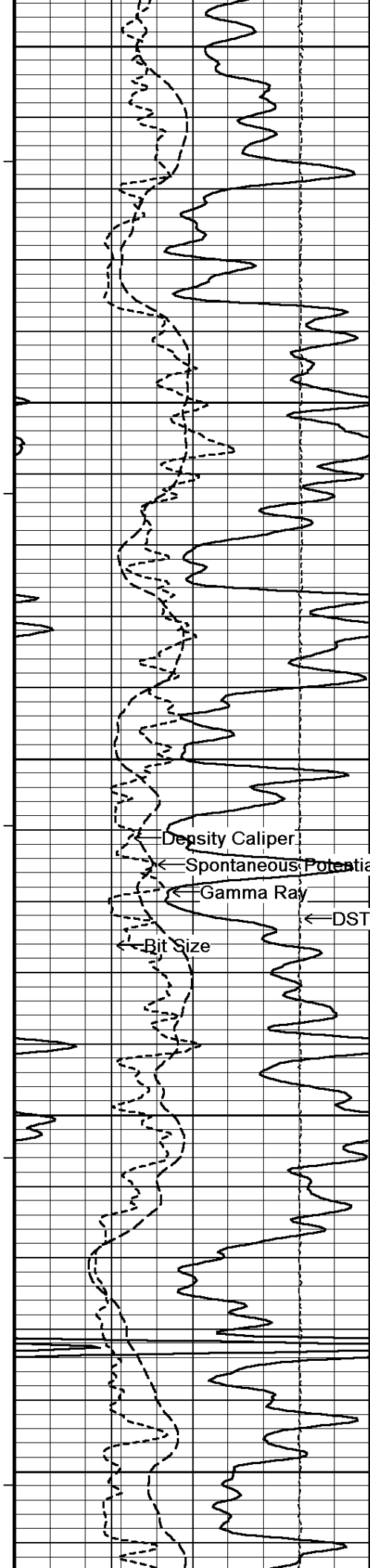
5550

Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
Bit Size



Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)





5800

122°

5850

123°

5900

Depth Caliper
Spontaneous Potential
Gamma Ray
Bit Size

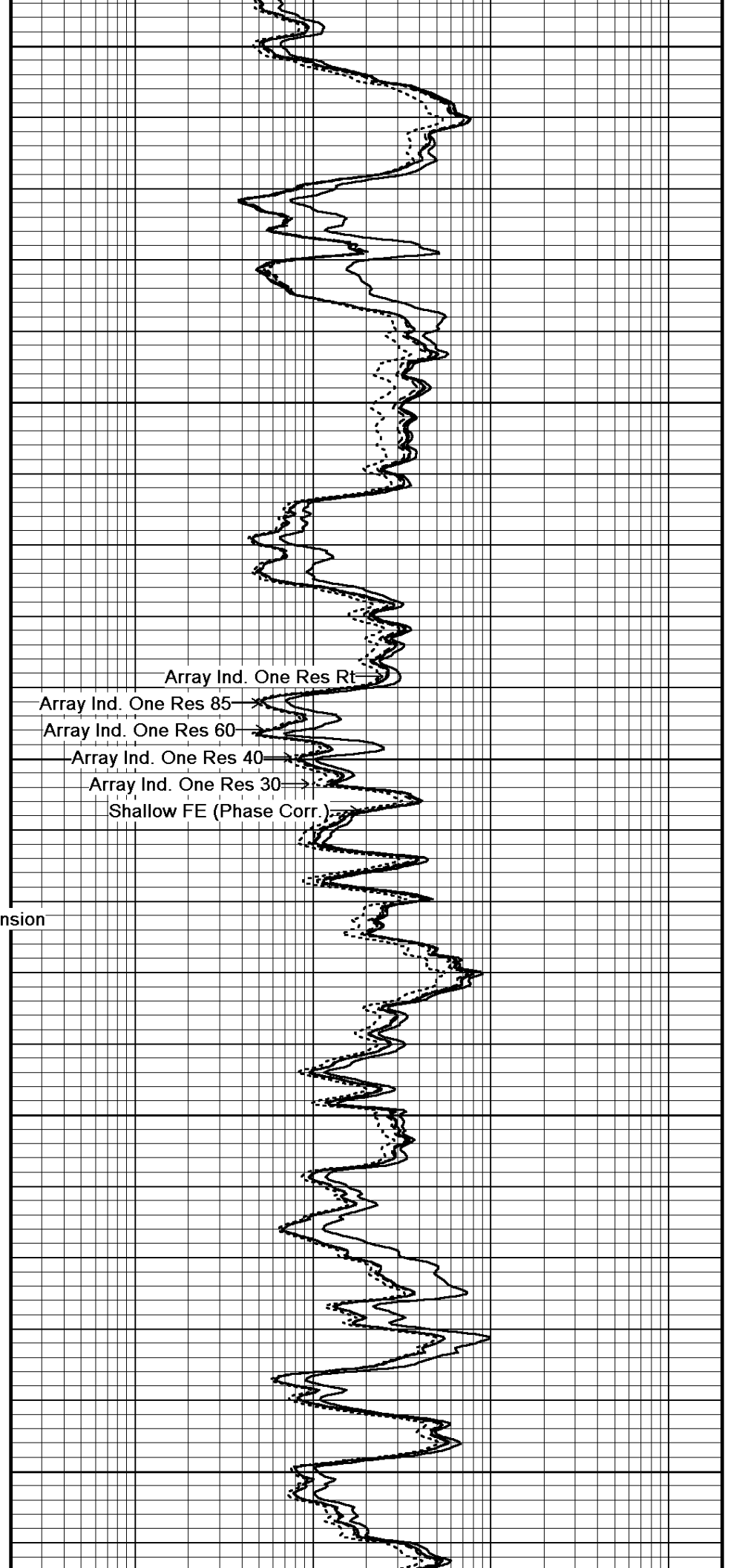
← DST Uphole Tension

123°

5950

124°

6000



Array Ind. One Res Rt

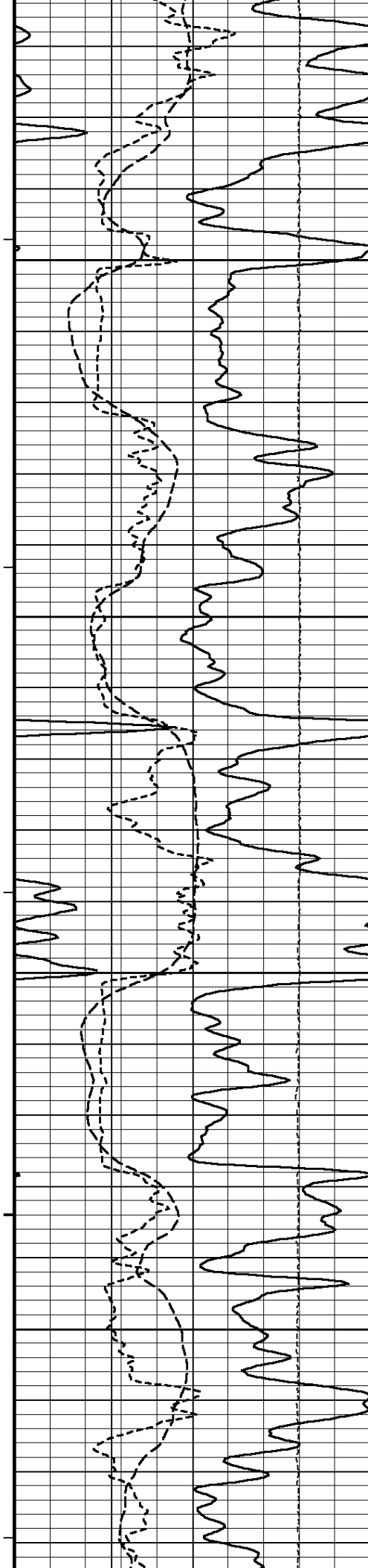
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Array Ind. One Res 60

Array Ind. One Res 40

Array Ind. One Res 30

Shallow FE (Phase Corr.)



124°

6050

124°

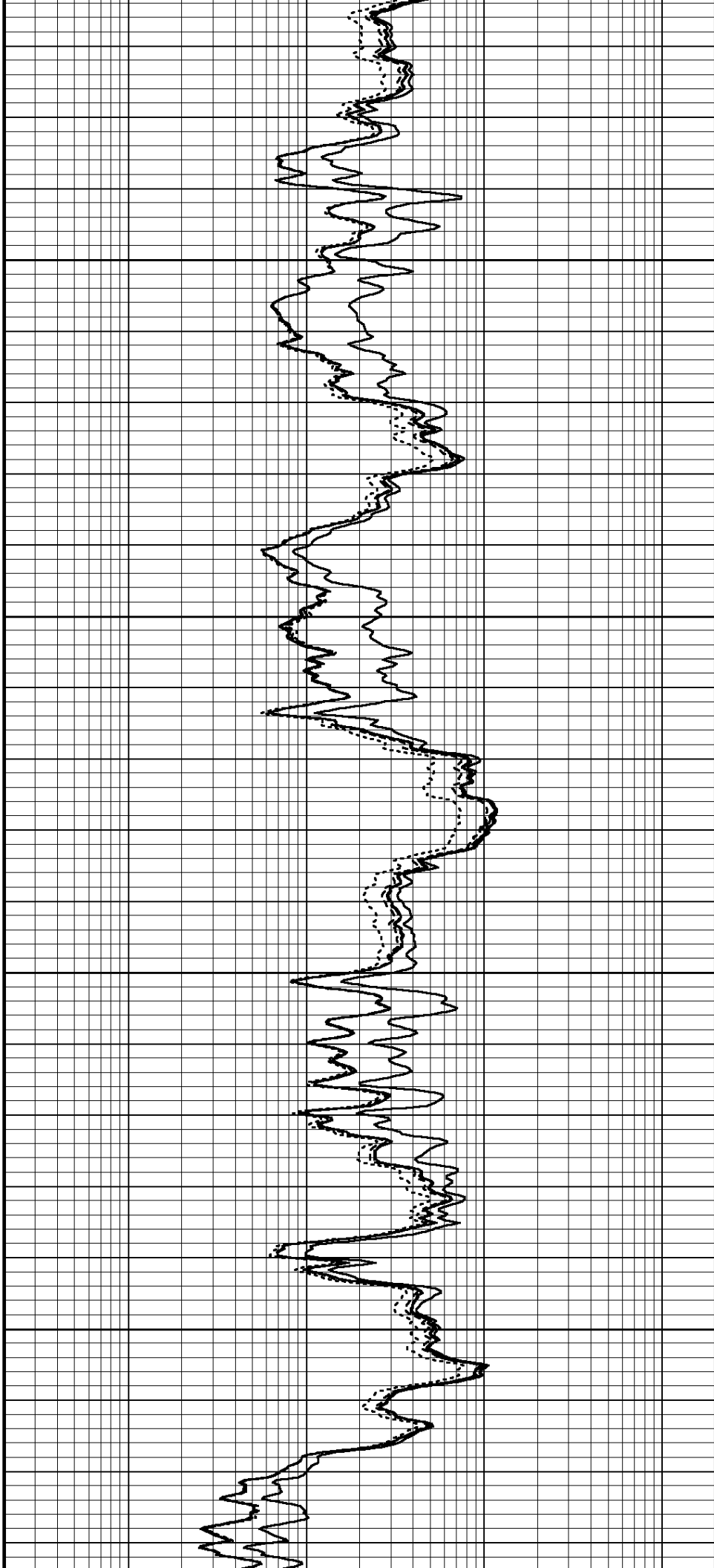
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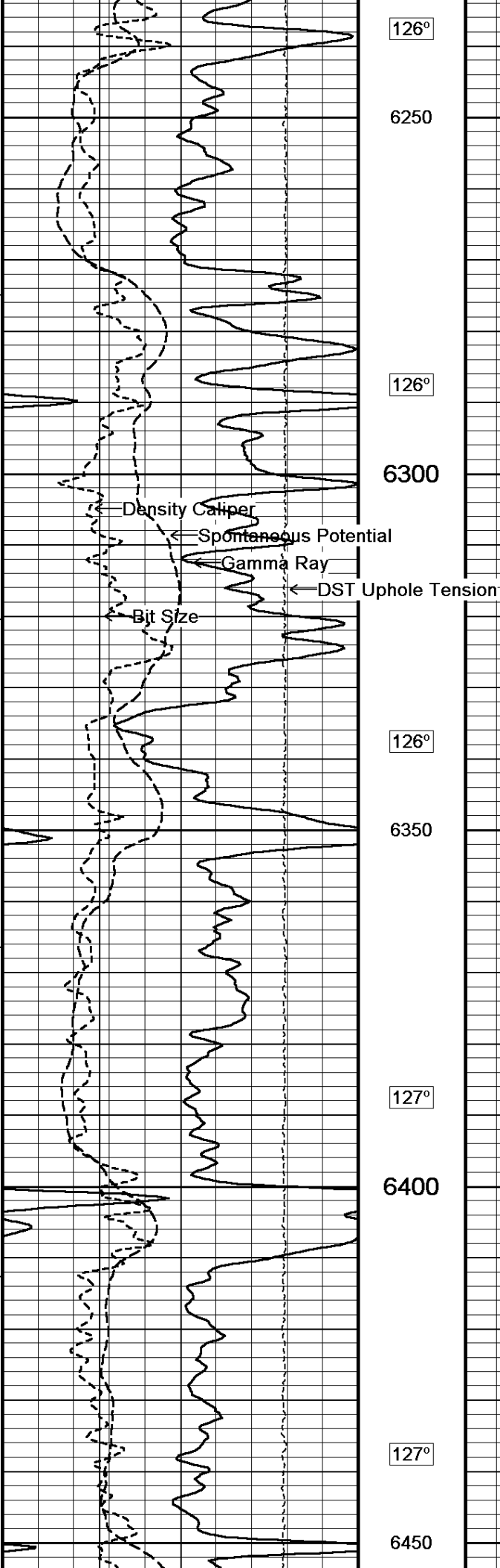
125°

6150

125°

6200





126°

6250

126°

6300

126°

6350

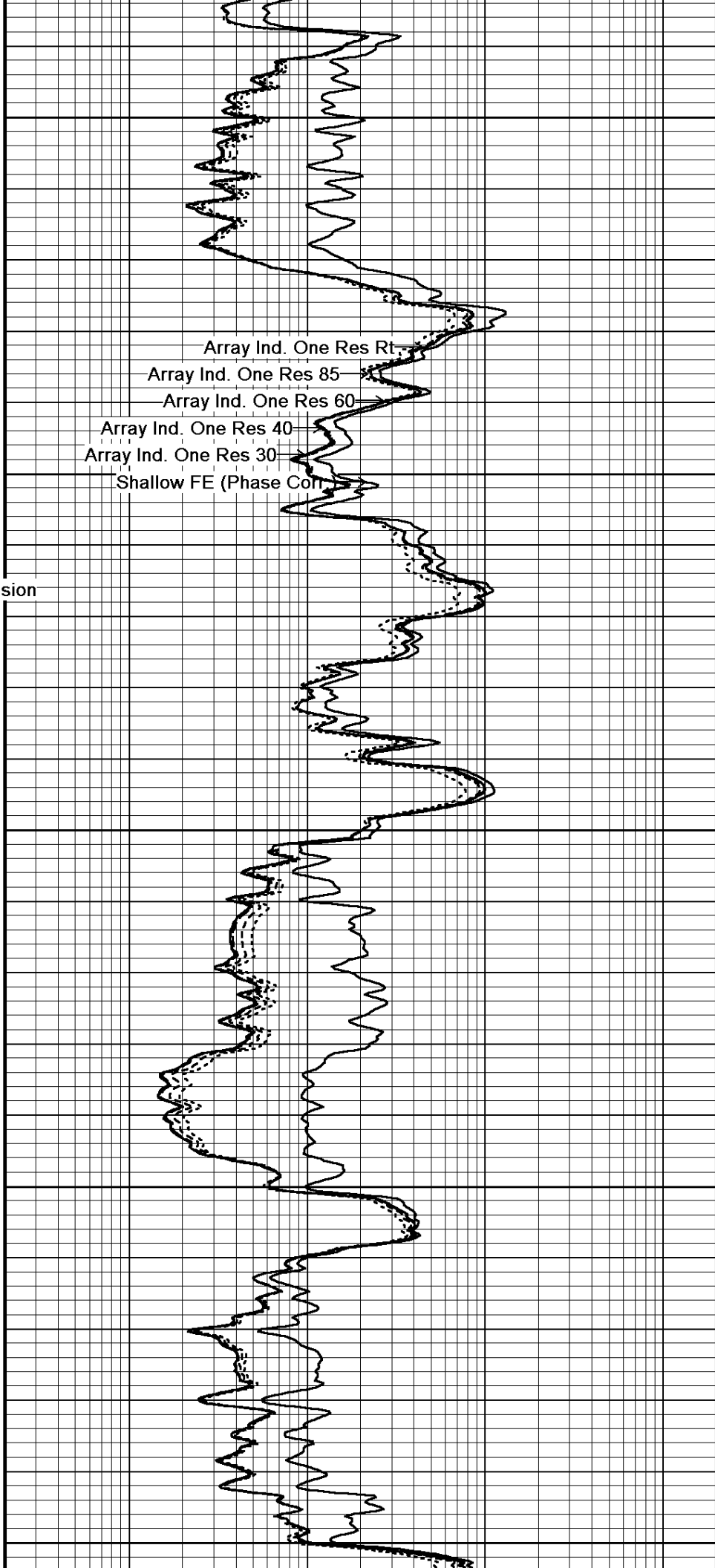
127°

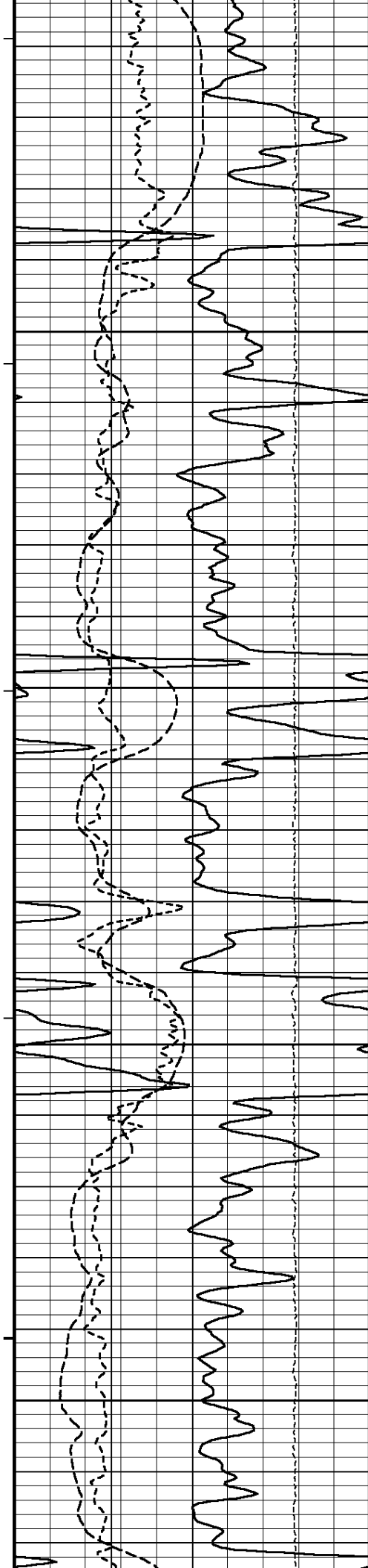
6400

127°

6450

Array Ind. One Res Rt.
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Con)





127°

6500

127°

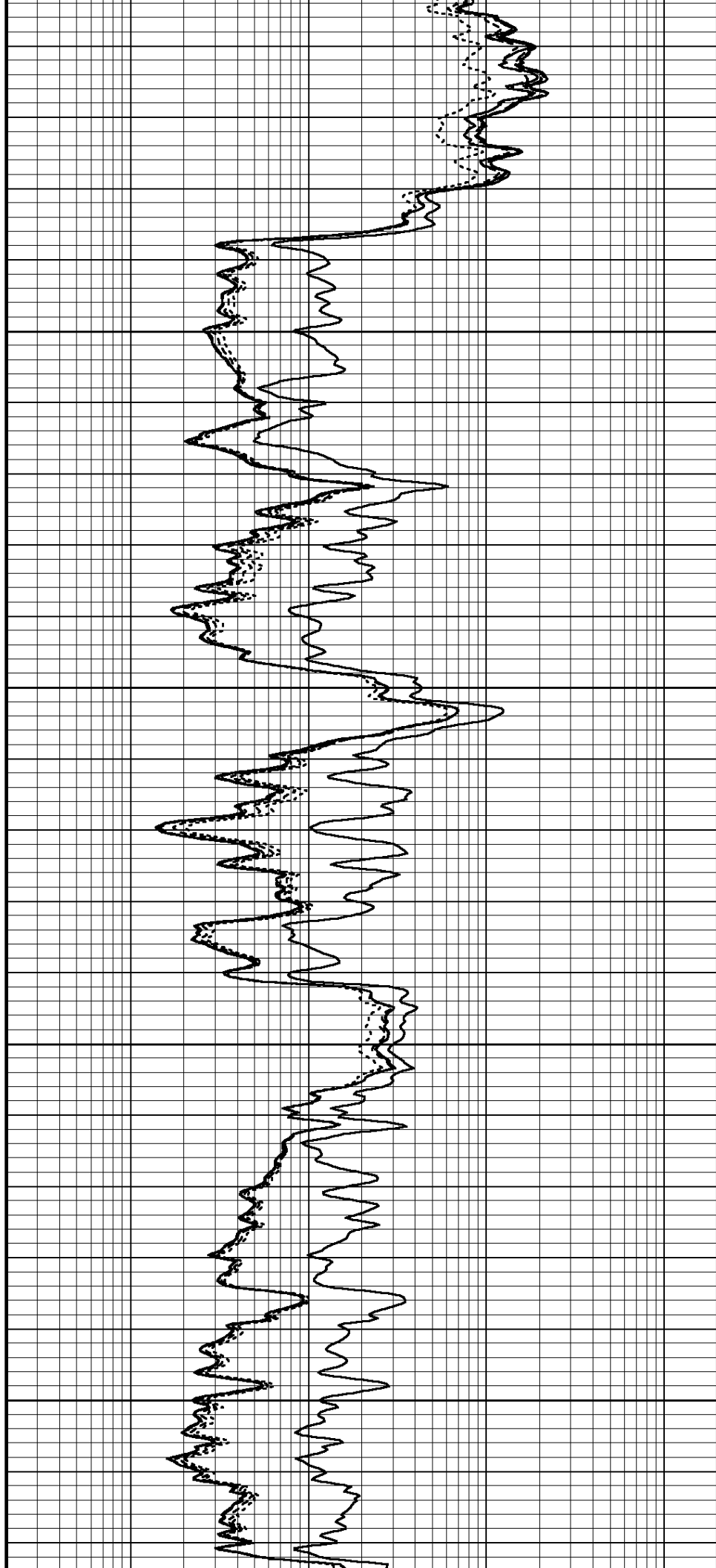
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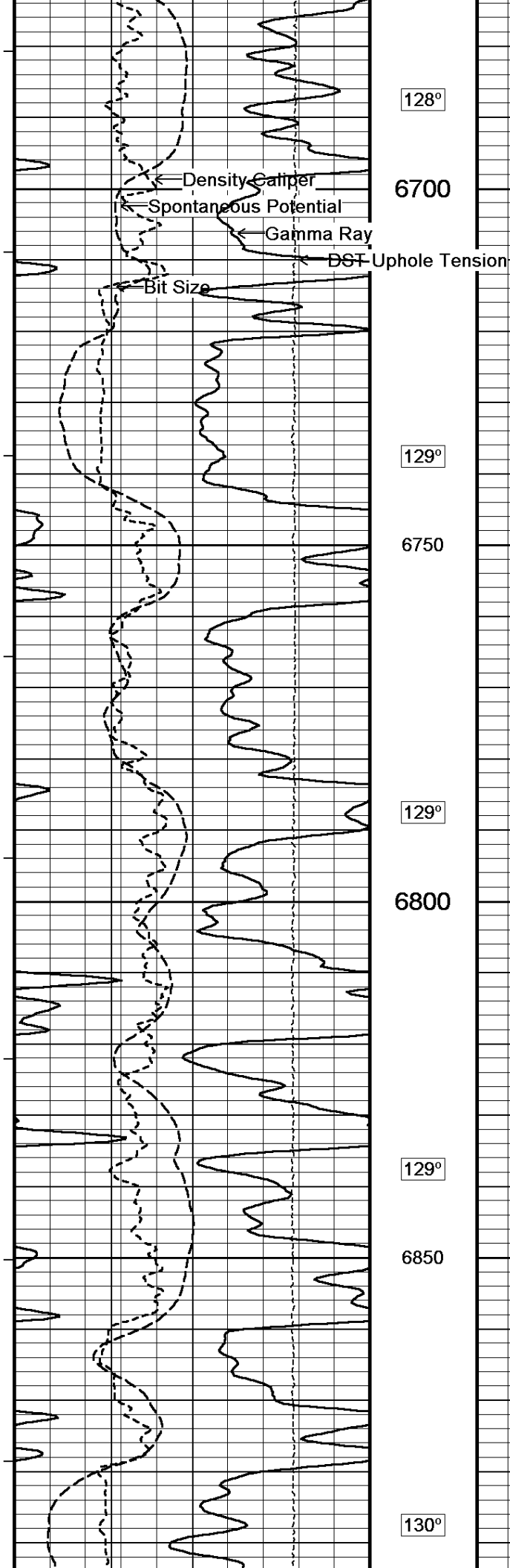
127°

6600

128°

6650





128°

6700

129°

6750

129°

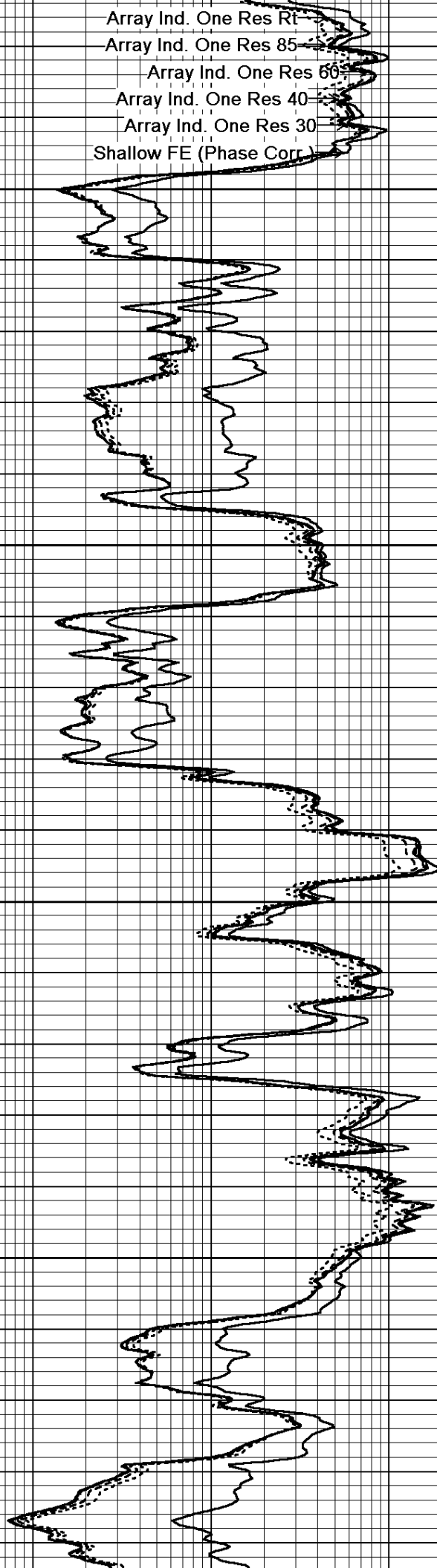
6800

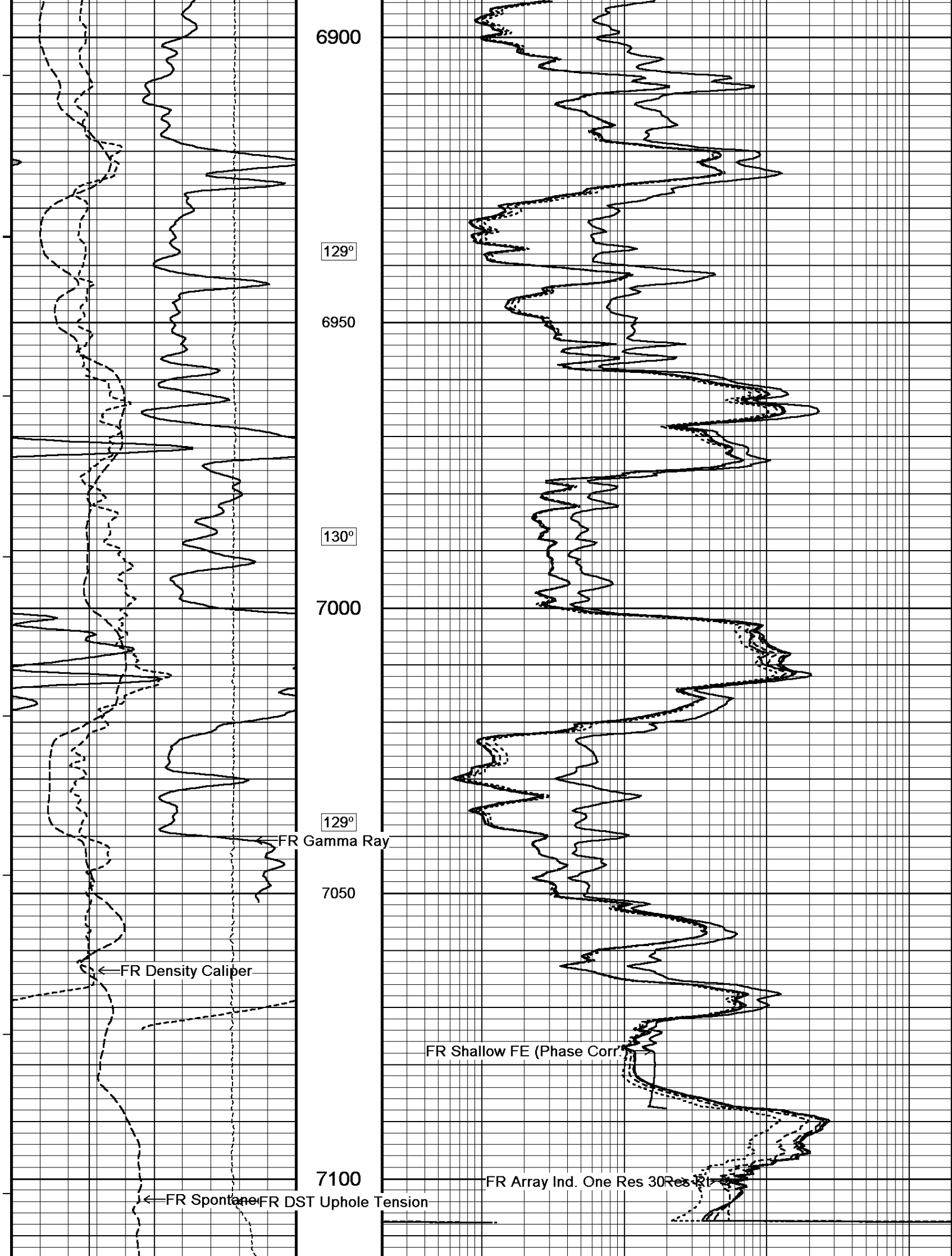
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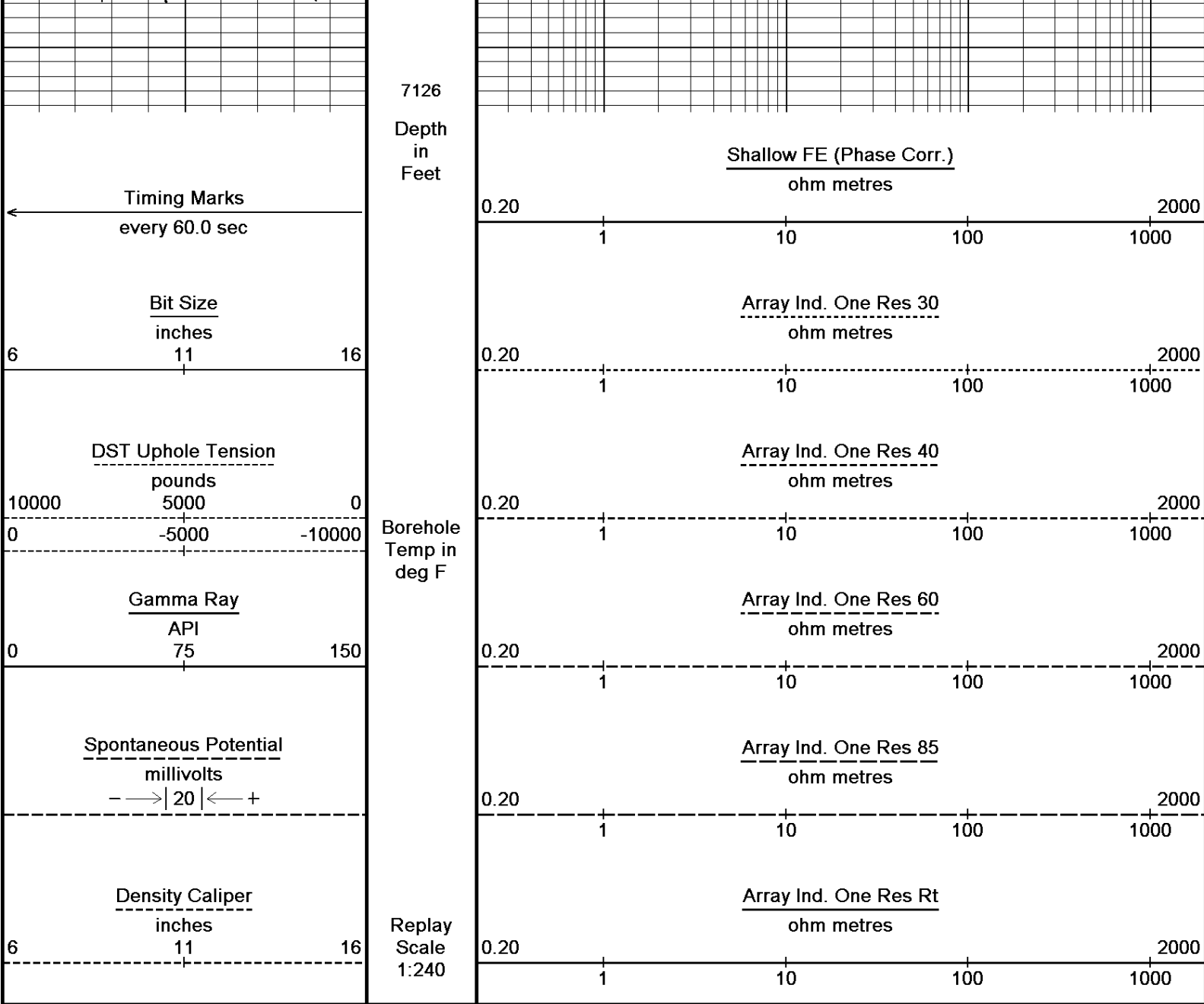
6850

130°

Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)







Depth Based Data - Maximum Sampling Increment 10.0cm	Plotted on 20-AUG-2010 16:42
Filename: C:\Minimus\Logs\Pataral\Andy's Mesa Federal #76\SPLICE.dta	Recorded on 20-AUG-2010 09:22
System Versions: Plotted with 10.08.1568	

↑

5 INCH MAIN LOG

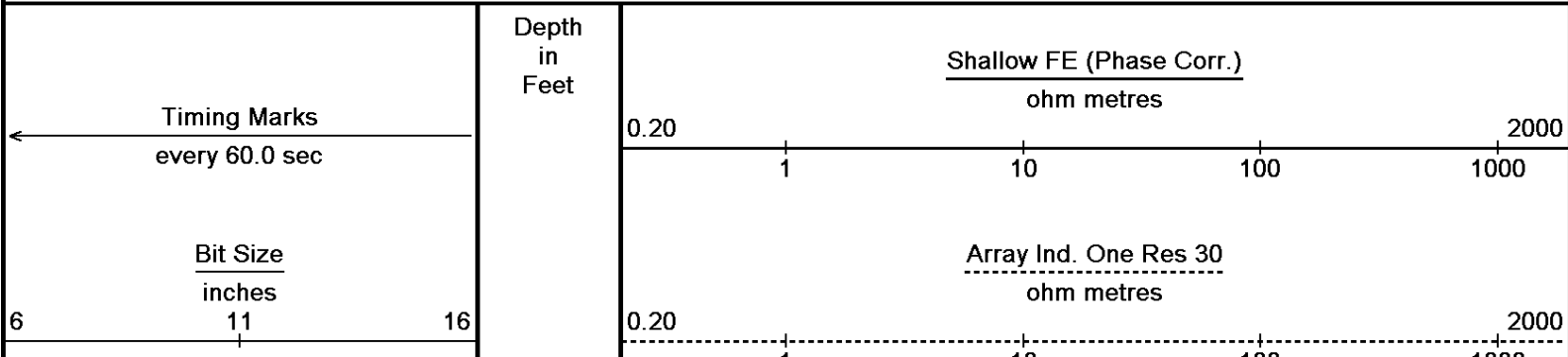
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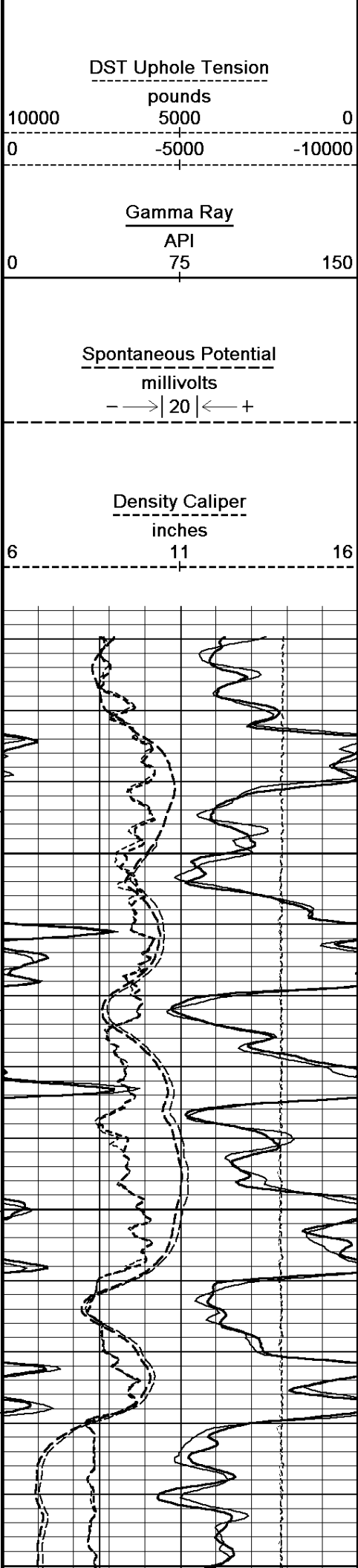
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5 INCH MAINLOG REPEAT SECTION

↓

Depth Based Data - Maximum Sampling Increment 10.0cm	Plotted on 20-AUG-2010 16:42
Filename: C:\Minimus\Logs\Pataral\Andy's Mesa Federal #76\SPLICE.dta	Recorded on 20-AUG-2010 09:22
Filename: C:\Minimus\Logs\Pataral\Andy's Mesa Federal #76\REPEAT.dta	Recorded on 20-AUG-2010 09:06
System Versions: Plotted with 10.08.1568	





Borehole
Temp in
deg F

Replay
Scale
1:240

6768

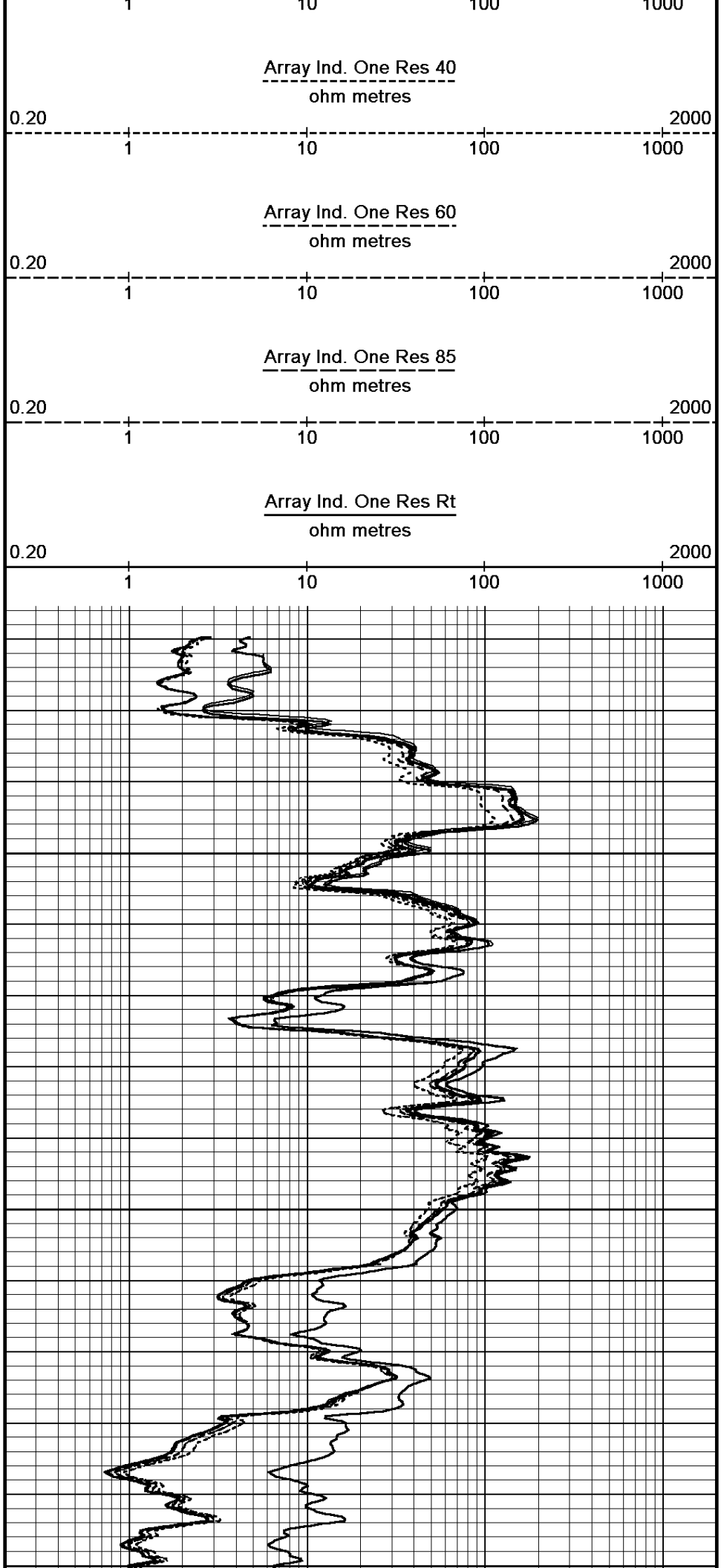
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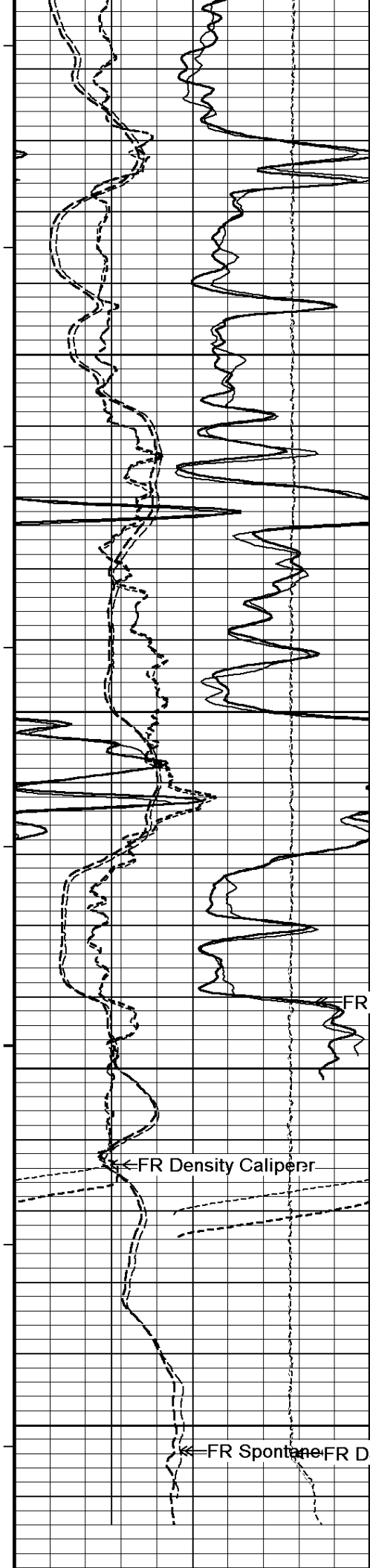
129°

6850

130°

6900





6950

129°

6950

130°

7000

129°

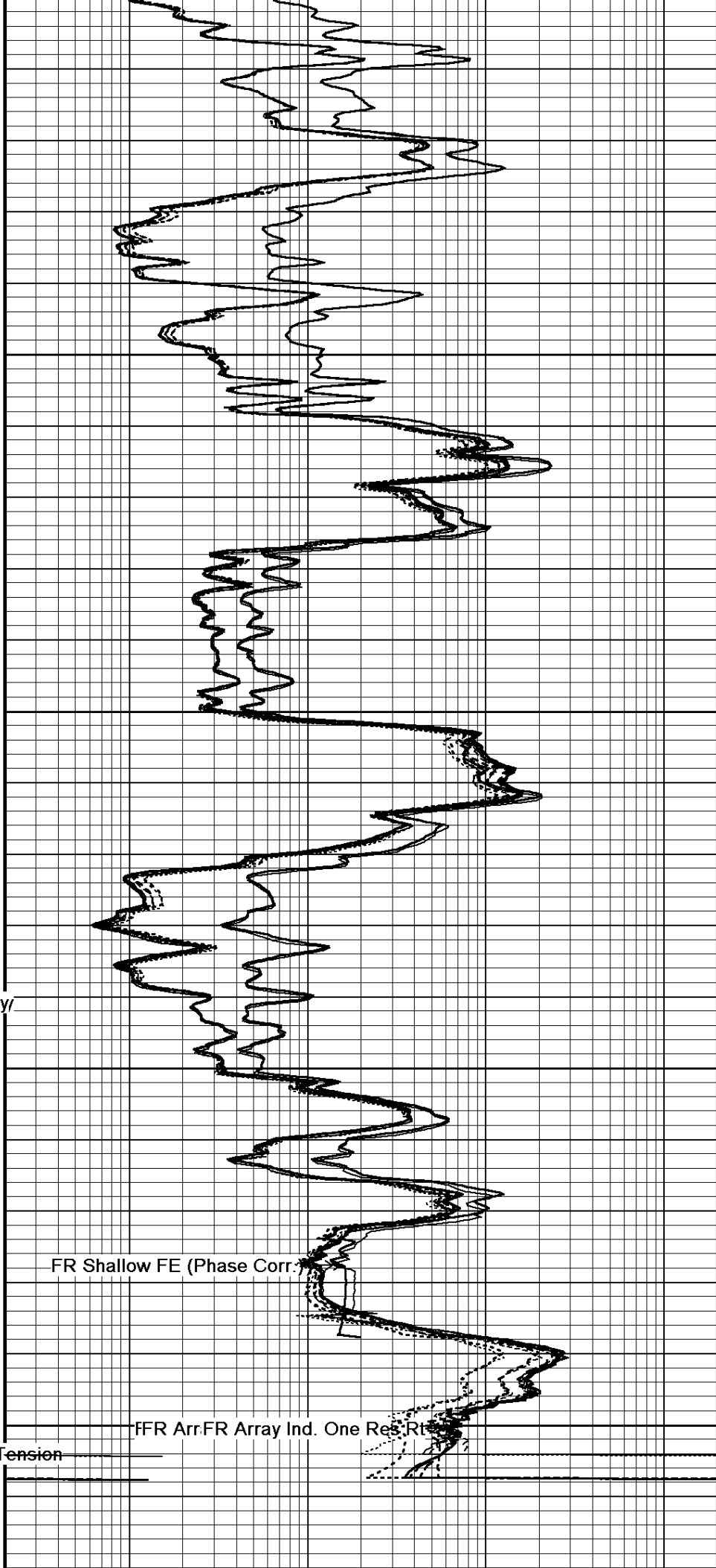
7050

7100

FR Gamma Ray

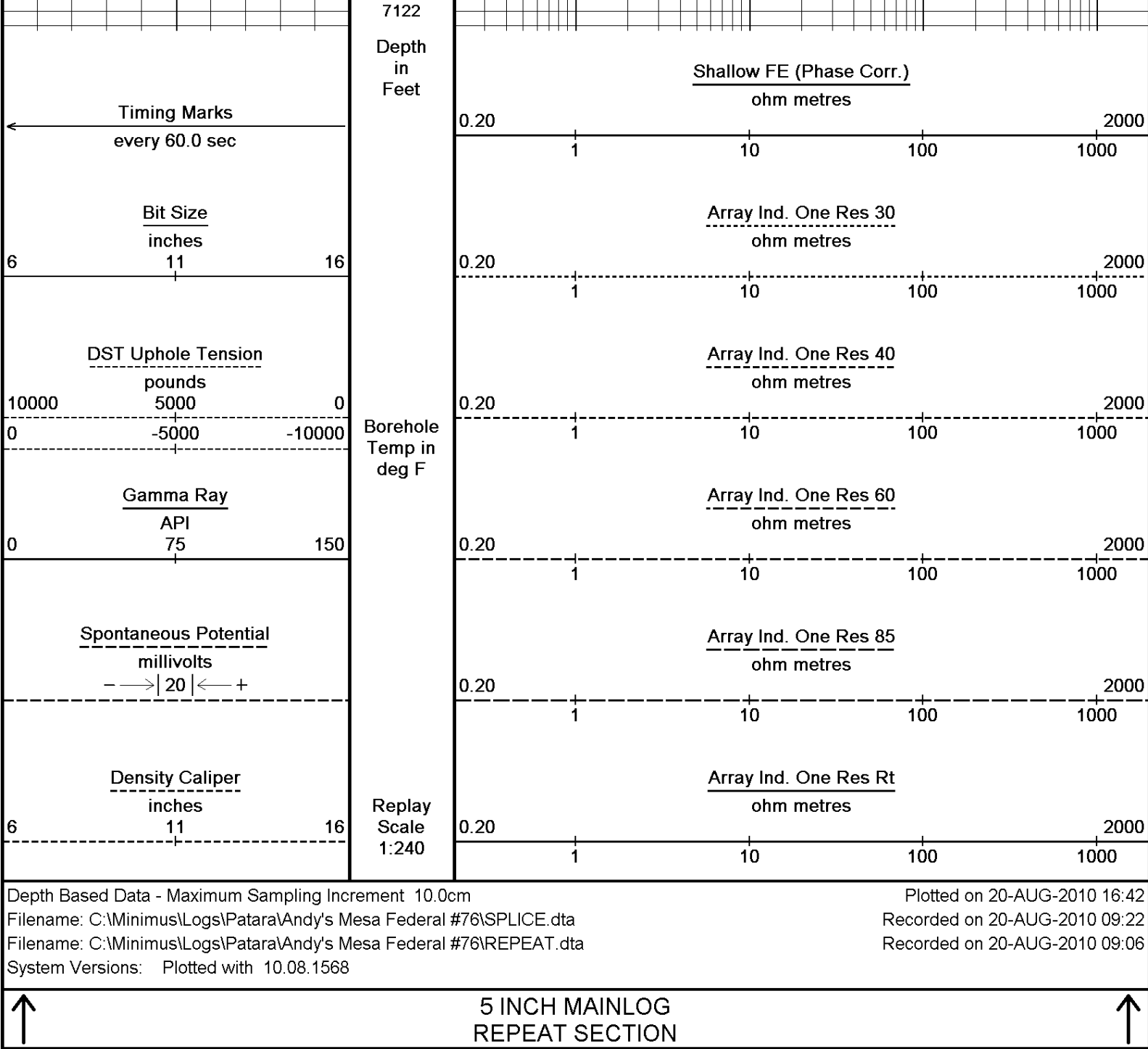
FR Density Caliper

FR Spontaneous Potential
FR DST Uphole Tension



FR Shallow FE (Phase Corr.)

FR Arr. FR Array Ind. One Res. R_h



BEFORE SURVEY CALIBRATION			
C:\Minimus\Logs\Pataral\Andy's Mesa Federal #76\SETUP.dta			
General Constants All 000		Last Edited on 19-AUG-2010,08:17	
General Parameters			
Mud Resistivity	1.240	ohm-metres	
Mud Resistivity Temperature	97.200	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	5.000	inches	
Caliper for Differential Caliper	None		
Rwa Parameters			
Rwa Parameter 1	0.000	feet	
Rwa Parameter 2	0.000	feet	
Rwa Parameter 3	0.000	feet	
Rwa Parameter 4	0.000	feet	

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 000			Field Calibration on 19-AUG-2010 10:31
Reading No	Measured	Calibrated (lbs)	
1	13860.36	0.00	
2	15208.13	560.00	
High Resolution Temperature Calibration MCG 247			Field Calibration on 19-AUG-2010,08:19
	Measured	Calibrated(Deg F)	
Lower	50.00	50.00	
Upper	75.00	75.00	
High Resolution Temperature Constants MCG 247			Last Edited on 01-AUG-2010,13:09
Pre-filter Length	11		
SP Calibration MCG 247			Field Calibration on 19-AUG-2010,08:19
	Measured	Calibrated (mV)	
Reference 1	100.8	100.0	
Reference 2	-99.0	-100.0	
Gamma Calibration MCG 247			Field Calibration on 19-AUG-2010,08:19
	Measured	Calibrated (API)	
Background	36	24	
Calibrator (Gross)	1387	936	
Calibrator (Net)	1351	912	
Gamma Constants MCG 247			Last Edited on 13-AUG-2010,12:52
Gamma Calibrator Number	GRCG-072		
Mud Density	1.00	gm/cc	
Caliper Source for Processing	Density Caliper		
Tool Position	Eccentred		
Concentration of KCl	0.00	kppm	
Neutron Calibration MDN 143			Base Calibration on 04-JUN-2010 16:46 Field Check on 19-AUG-2010,08:20
Base Calibration			
	Measured	Calibrated (cps)	
	Near Far	Near Far	
	3016 94	3714 110	
Ratio	32.095	33.764	
Field Calibrator at Base			
		Calibrated (cps)	
		1428 2141	
Ratio		0.667	
Field Check			
		Calibrated (cps)	
		1382 2007	
Ratio		0.689	
Neutron Constants MDN 143			Last Edited on 19-AUG-2010,08:20
Neutron Source Id	734		
Neutron Jig Number	5922		
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	7.00	cu	
Dolomite Sigma	4.70	cu	
Formation Pressure Source	None		
Formation Pressure	N/A	kpsi	
Temperature Source	Constant Value		
Temperature	20.00	degrees F	
Mud Salinity	0.00	kppm	

Formation Fluid Salinity Source	None				
Formation Fluid Salinity	N/A		kppm		
Barite Mud Correction	Not Applied				
FE Calibration MFE 178			Base Calibration on 15-JUL-2010 10:54 Field Check on 19-AUG-2010 10:35		
Base Calibration					
	Measured	Calibrated (ohm-m)			
Reference 1	10.1	1.3			
Reference 2	968.4	126.8			
Base Check		281.0			
Field Check		281.2			
FE Constants MFE 178			Last Edited on 19-AUG-2010,08:21		
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			
Sonic Constants MSS 096			Last Edited on 19-AUG-2010,08:21		
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	
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 213			Field Calibration on 19-AUG-2010,08:21
	Measured	Calibrated(Deg F)	
Lower	10.00	50.00	
Upper	100.00	100.00	

High Resolution Temperature Constants MAI 213		Last Edited on 29-JUL-2010,03:41
Pre-filter Length	11	

Induction Calibration MAI 213				Base Calibration on 01-JUL-2010,22:36	
				Field Check on 19-AUG-2010 10:37	
Base Calibration					
Test Loop Calibration		Measured		Calibrated (mmho/m)	
Channel	Low	High	Low	High	
1	16.8	462.4	9.3	966.2	
2	6.2	381.7	7.6	821.4	
3	3.6	254.8	5.2	566.0	
4	2.3	132.3	2.6	279.2	
Array Temperature		73.6	Deg F		
Channel	Base Check (mmho/m)		Field Check (mmho/m)		
	Low	High	Low	High	
1	0.0	0.0	14.8	3935.5	
2	0.0	0.0	30.6	3539.3	
3	0.0	0.0	29.2	3113.7	
4	0.0	0.0	19.2	2096.5	
Deep	0.0	0.0	17.6	2078.2	
Medium	0.0	0.0	42.9	4087.5	
Shallow	0.0	0.0	45.9	5158.2	
Array Temperature		0.0		77.5	Deg F

Induction Constants MAI 213		Last Edited on 19-AUG-2010,08:21	
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		Constant Value	
Temp. for Rm Corr.		N/A	
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	

Caliper Calibration MPD 296

Base Calibration on 16-JUL-2010 10:35
Field Calibration on 19-AUG-2010,08:20

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	17267	4.00
2	25312	5.96
3	33397	7.98
4	41456	9.86
5	50656	11.88
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
7.98	7.98

Photo Density Calibration MPD 296

Base Calibration on 16-JUL-2010 10:20
Field Check on 19-AUG-2010 10:34

Density Calibration

Base Calibration

	Near	Far	Near	Far
Reference 1	45248	17783	53115	19186
Reference 2	21507	2662	25020	2536

Field Check at Base

1173.6	1410.4
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Field Check

1165.8	1403.9
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PE Calibration

Base Calibration

	WS	Measured WH	Ratio	Calibrated Ratio
Background	214	1029		
Reference 1	12501	45063	0.279	0.320
Reference 2	5235	21356	0.247	0.272

Field Check at Base

214.0	1029.1
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Field Check

211.7	1026.4
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Density Constants MPD 296

Last Edited on 19-AUG-2010,08:18

Density Source Id	238	
Nylon Calibrator Number	507	
Aluminium Calibrator Number	507	
Density Shoe Profile	8 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.08	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

Spectral Gamma Calibration SGS 010

Base Calibration on 16-JUN-2010 10:33
Field Calibration on 19-AUG-2010,08:19

Base Calibration

Potassium Calibrator

	Gate 1	Gate 2	Gate 3	Gate 4	Gate 5
Background	102.2	37.2	4.2	2.2	4.4
Calibrator (Gross)	228.2	123.3	29.1	2.1	4.1
Calibrator (Net)	125.9	86.1	25.0	-0.1	-0.3

	K %	U ppm	Th ppm
Concentrations	4.4	-0.7	3.0

Uranium Calibrator

	Gate 1	Gate 2	Gate 3	Gate 4	Gate 5
Background	102.2	37.2	4.2	2.2	4.4
Calibrator (Gross)	489.9	179.2	16.2	11.7	7.2
Calibrator (Net)	387.7	142.0	12.0	9.6	2.8

	K %	U ppm	Th ppm
Concentrations	1.0	10.7	2.8

Thorium Calibrator

	Gate 1	Gate 2	Gate 3	Gate 4	Gate 5
Background	102.2	37.2	4.2	2.2	4.4
Calibrator (Gross)	419.4	159.8	12.4	7.6	19.3
Calibrator (Net)	317.1	122.6	8.2	5.5	14.9

	K %	U ppm	Th ppm
Concentrations	0.6	-2.3	31.5

Mixture Calibrator

	Gate 1	Gate 2	Gate 3	Gate 4	Gate 5
Background	102.2	37.2	4.2	2.2	4.4
Calibrator (Gross)	907.0	376.8	49.4	16.2	21.6
Calibrator (Net)	804.8	339.6	45.2	14.0	17.3

Field Calibration

Gamma Ray

	Measured	Calibrated (API)
Background	160	29
Calibrator (Gross)	1381	254
Calibrator (Net)	1221	225

Mixture Calibrator

	Gate 1	Gate 2	Gate 3	Gate 4	Gate 5
Background	102.2	37.2	4.2	2.2	4.4
Calibrator (Gross)	907.0	376.8	49.4	16.2	21.6
Calibrator (Net)	804.8	339.6	45.2	14.0	17.3

Spectral Gamma Constants SGS 010

Last Edited on 06-AUG-2010,05:07

Mud Density	1.00	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

DOWNHOLE EQUIPMENT

C:\Minimus\Logs\Patara\Andy's Mesa Federal #76\SETUP.dta

SHA-J.A Compact Swivel Head Adaptor
SHA 214 Length: 2.30 ft Weight: 22.0 lb

Compact Gamma
MCG 247 Length: 8.70 ft Weight: 63.9 lb

Spectral Gamma Ray Sub
SGS 10 Length: 7.78 ft Weight: 105.8 lb

Compact Neutron
MDN 143 Length: 5.04 ft Weight: 50.7 lb

Compact Density/Caliper
MPD 296 Length: 9.59 ft Weight: 90.4 lb

MIS-D.A Compact Inline Bowspring sub
MIS 442 Length: 5.70 ft Weight: 33.1 lb

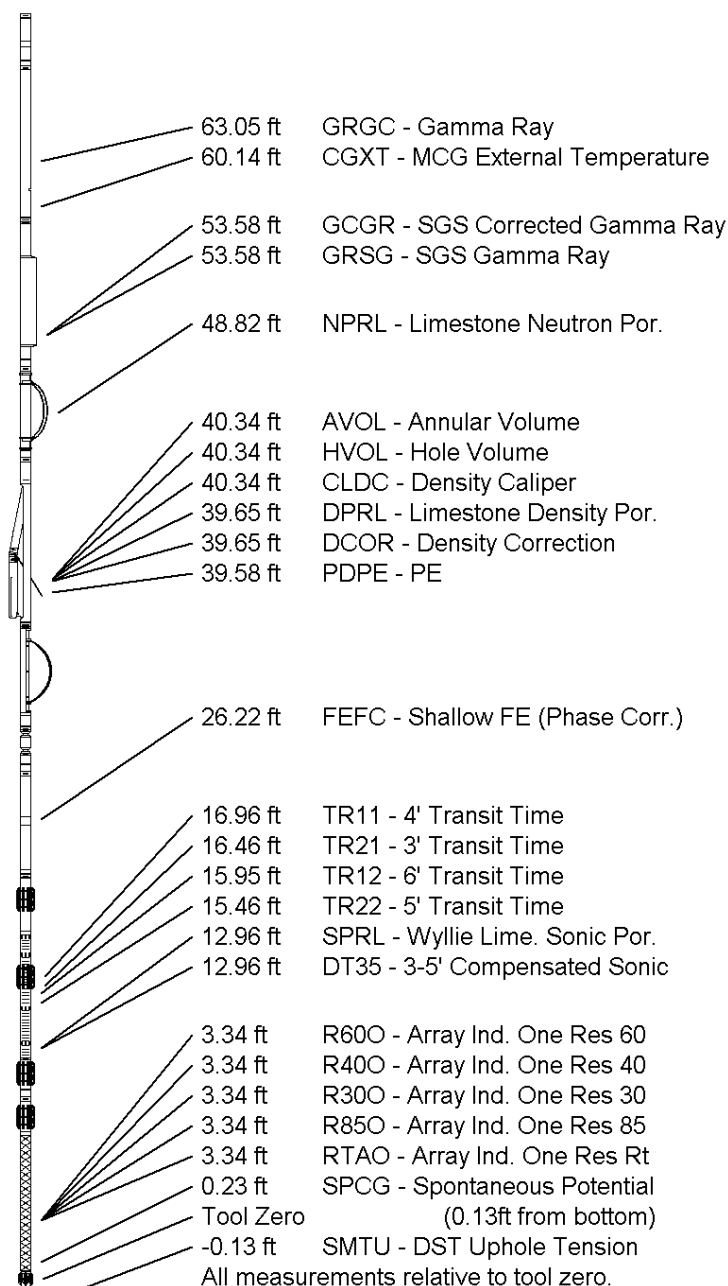
SKJ-D.A Compact Knuckle Joint
SKJ 172 Length: 2.17 ft Weight: 24.3 lb

Compact Focussed Electric
MFE 178 Length: 6.03 ft Weight: 48.5 lb

Compact Sonic
MSS 96 Length: 12.52 ft Weight: 72.8 lb

Compact Induction
MAI 213 Length: 10.81 ft Weight: 48.5 lb

Total Length: 70.63 ft Weight: 560.0 lb



COMPANY	PATARA OIL & GAS LLC
WELL	ANDY'S MESA FEDERAL #76
FIELD	ANDY'S MESA
PROVINCE/COUNTY	SAN MIGUEL
COUNTRY/STATE	U.S.A. / COLORADO

Elevation Kelly Bushing	6434.00	feet	First Reading		feet
Elevation Drill Floor	6433.00	feet	Depth Driller	7118.00	feet
Elevation Ground Level	6417.00	feet	Depth Logger	7104.00	feet



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