



Weatherford

**ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG**

COMPANY	DAYSTAR PETROLEUM, INC.		
WELL	DEUTSCHER B #1-2		
FIELD	WILDCAT		
PROVINCE/COUNTY	TREGO		
COUNTRY/STATE	U.S.A. / KANSAS		
LOCATION	1330' FSL & 395' FWL		
SEC 2	TWP 15S	RGE 21W	Other Services
Latitude			MDN/MPD
Longitude			MSS
API Number	15-195-23003		
Permanent Datum GL, Elevation	2123 feet		
Log Measured From	KB		
Drilling Measured From	KB @ 8 FEET		
Date	14-MAR-2016		
Run Number	ONE		
Service Order	4558-145149224		
Depth Driller	4040.00	feet	
Depth Logger	4037.00	feet	
First Reading	4034.00	feet	
Last Reading	265.00	feet	
Casing Driller	263.00	feet	
Casing Logger	265.00	feet	
Bit Size	7.875	inches	
Hole Fluid Type	CHEMICAL		
Density / Viscosity	9.10 lb/USg	48.00 CP	
PH / Fluid Loss	9.30	6.40 ml/30Min	
Sample Source	FLOWLINE		
Rm @ Measured Temp	0.52 @ 75.0	ohm-m	
Rmf @ Measured Temp	0.42 @ 75.0	ohm-m	
Rmc @ Measured Temp	0.62 @ 75.0	ohm-m	
Source Rmf / Rmc	CALC	CALC	
Rm @ BHT	0.38 @104.0	ohm-m	
Time Since Circulation	4 HOURS		
Max Recorded Temp	104.00	deg F	
Equipment / Base	13096	OKC	
Recorded By	ADAM SILL		
Witnessed By	BRAD RINE		

Elevations:	feet
KB	2131.00
DF	2129.00
GL	2123.00

BOREHOLE RECORD Last Edited: 14-MAR-2016 13:16

Bit Size inches	Depth From feet	Depth To feet
7.875	263.00	4040.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	8.625	0.00	263.00	23.00

REMARKS

- SOFTWARE ISSUE: WLS 15.03.5939.
- RUN ONE: MCG, MML, MDN, MPD, MFE, MSS, MAI RUN IN COMBINATION.
 - HARDWARE: DUAL BOWSPRING USED ON MDN.
 - 0.5 INCH STANDOFF USED ON MFE.
 - TWO 0.5 INCH STANDOFFS USED ON MSS.
 - 0.5 INCH STANDOFF USED ON MAI.
- 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 SURFACE CASING: 1670 CU.FT.
- ANNULAR HOLE VOLUME WITH 5.5 INCH PRODUCTION CASING FROM TD TO 3100 FEET: 176 CU.FT.

- RIG: WW DRILLING #12.

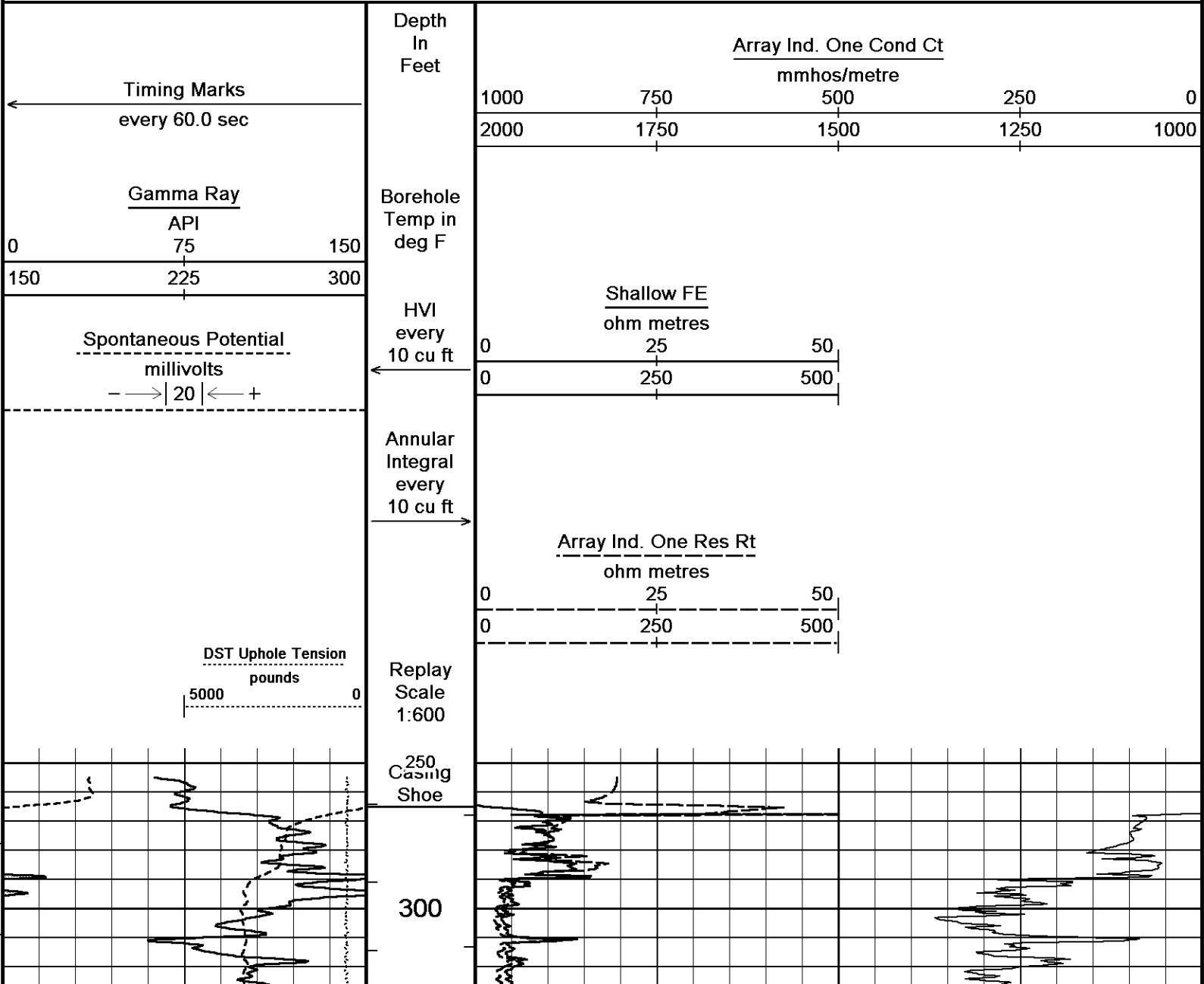
- ENGINEER: A. SILL.

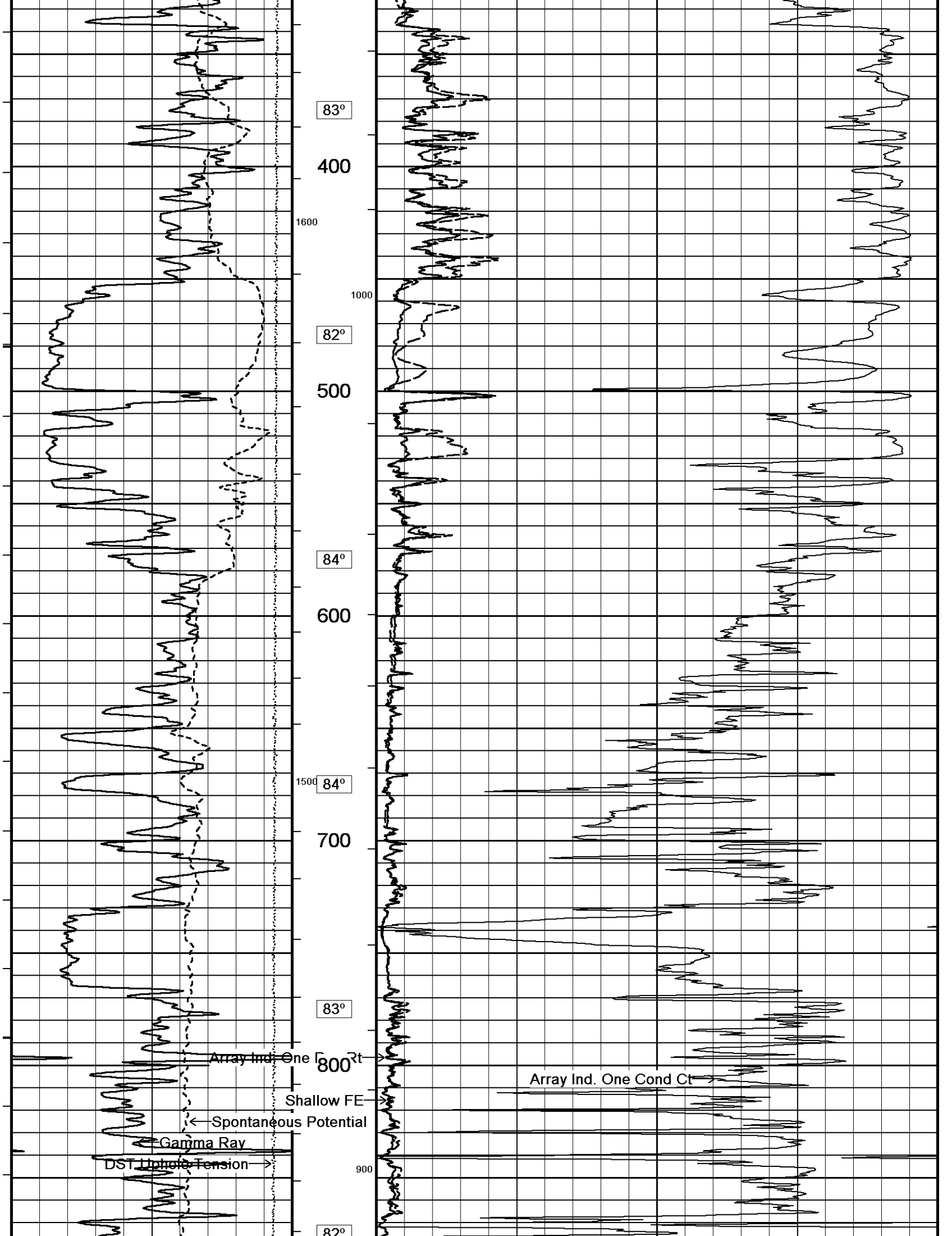
- OPERATOR: J. LaPOINT.

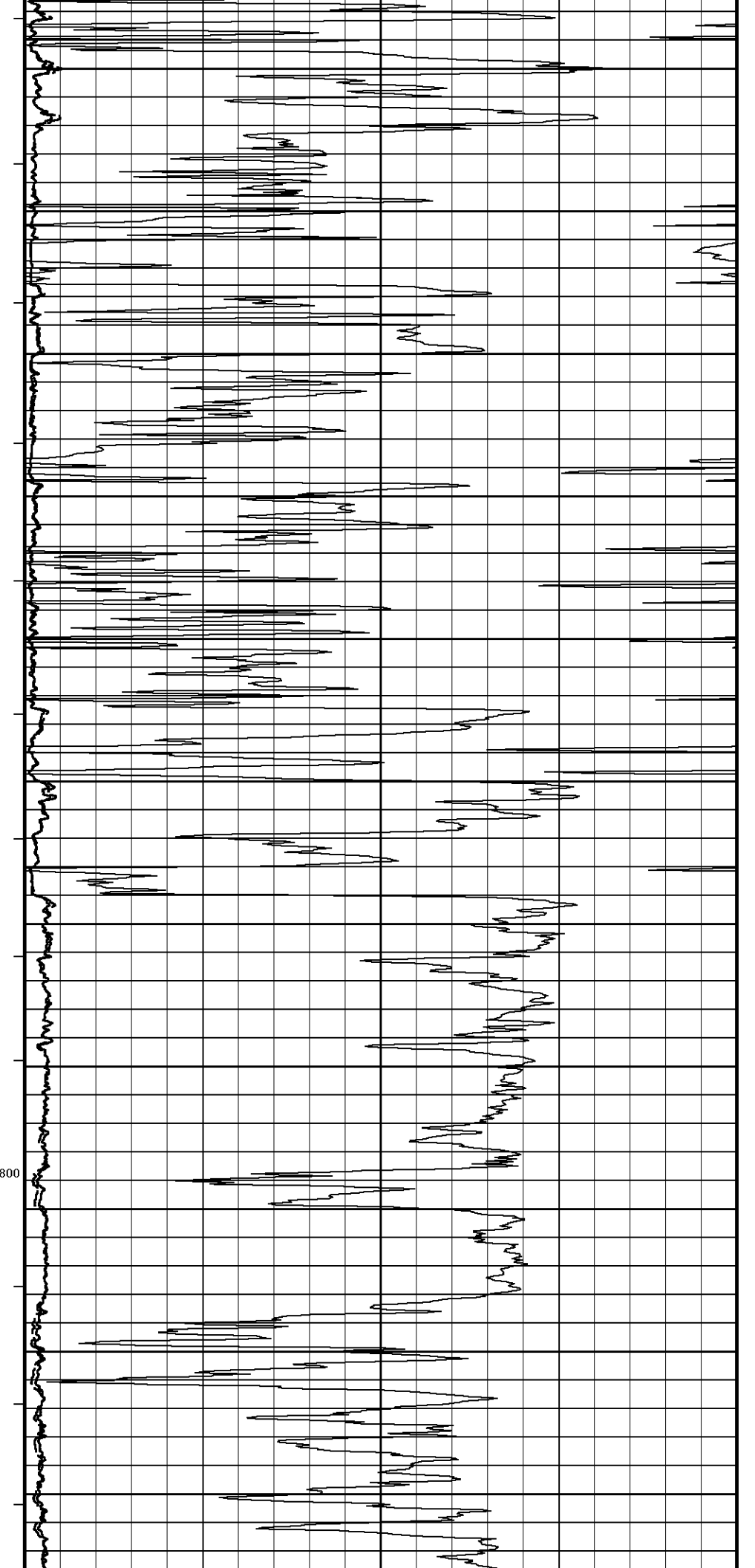
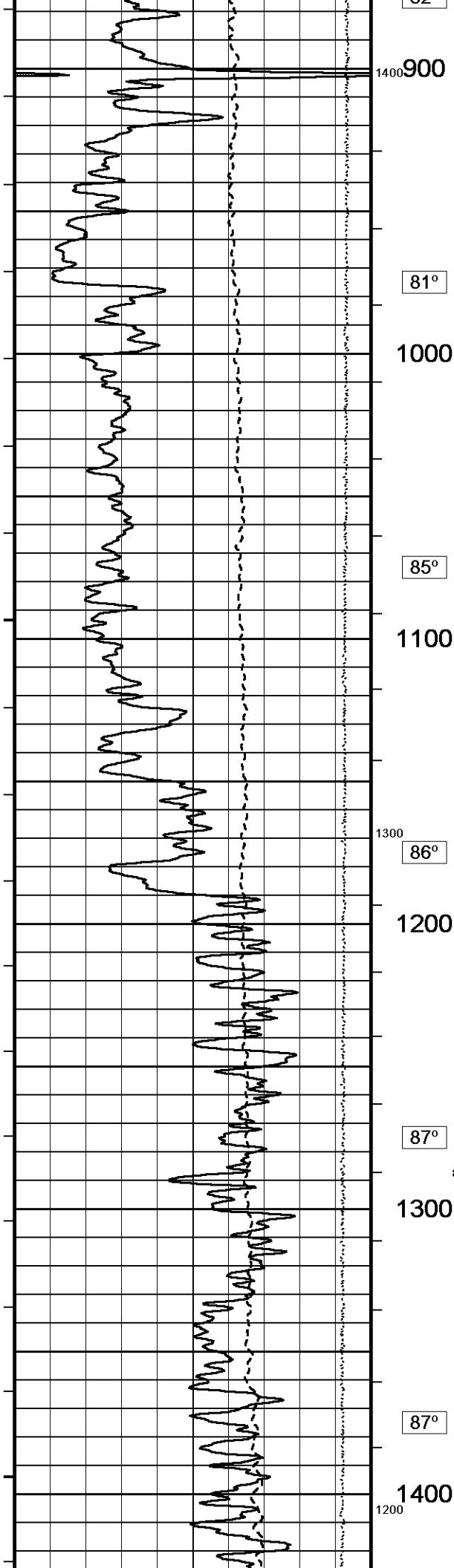
In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will 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.

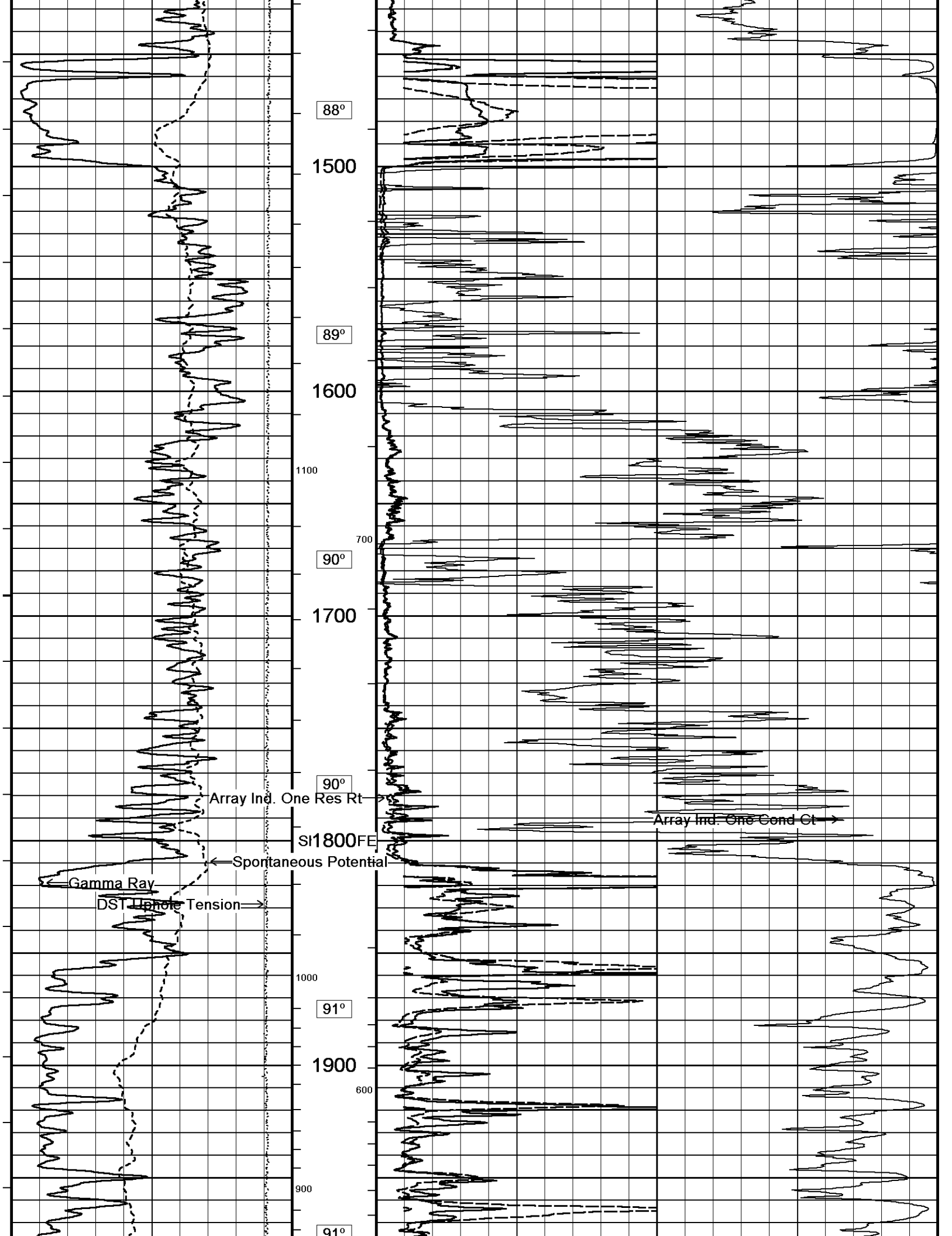
2 INCH MAIN

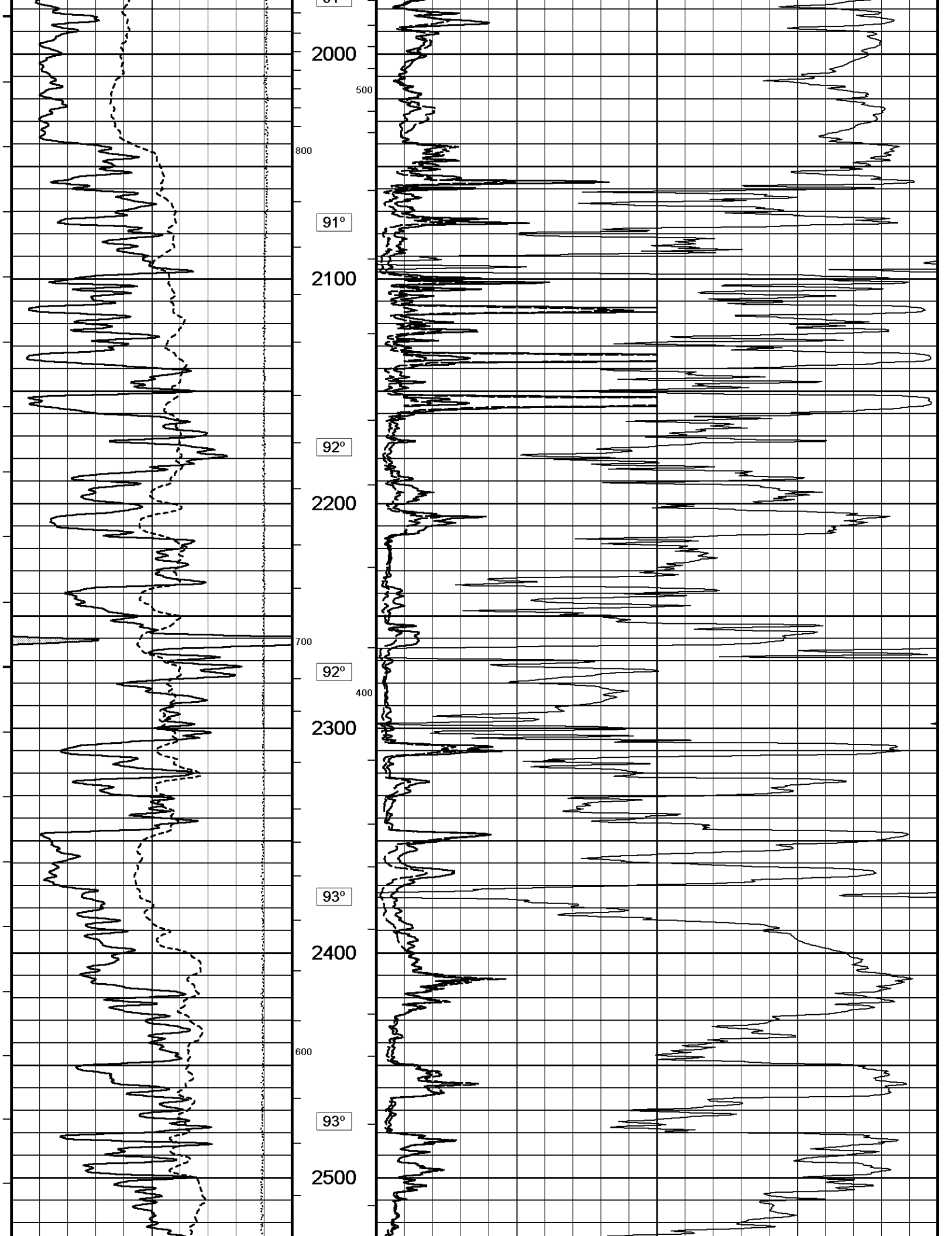
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 System Versions: Logged with 15.03.5939 Plotted with 15.03.5939

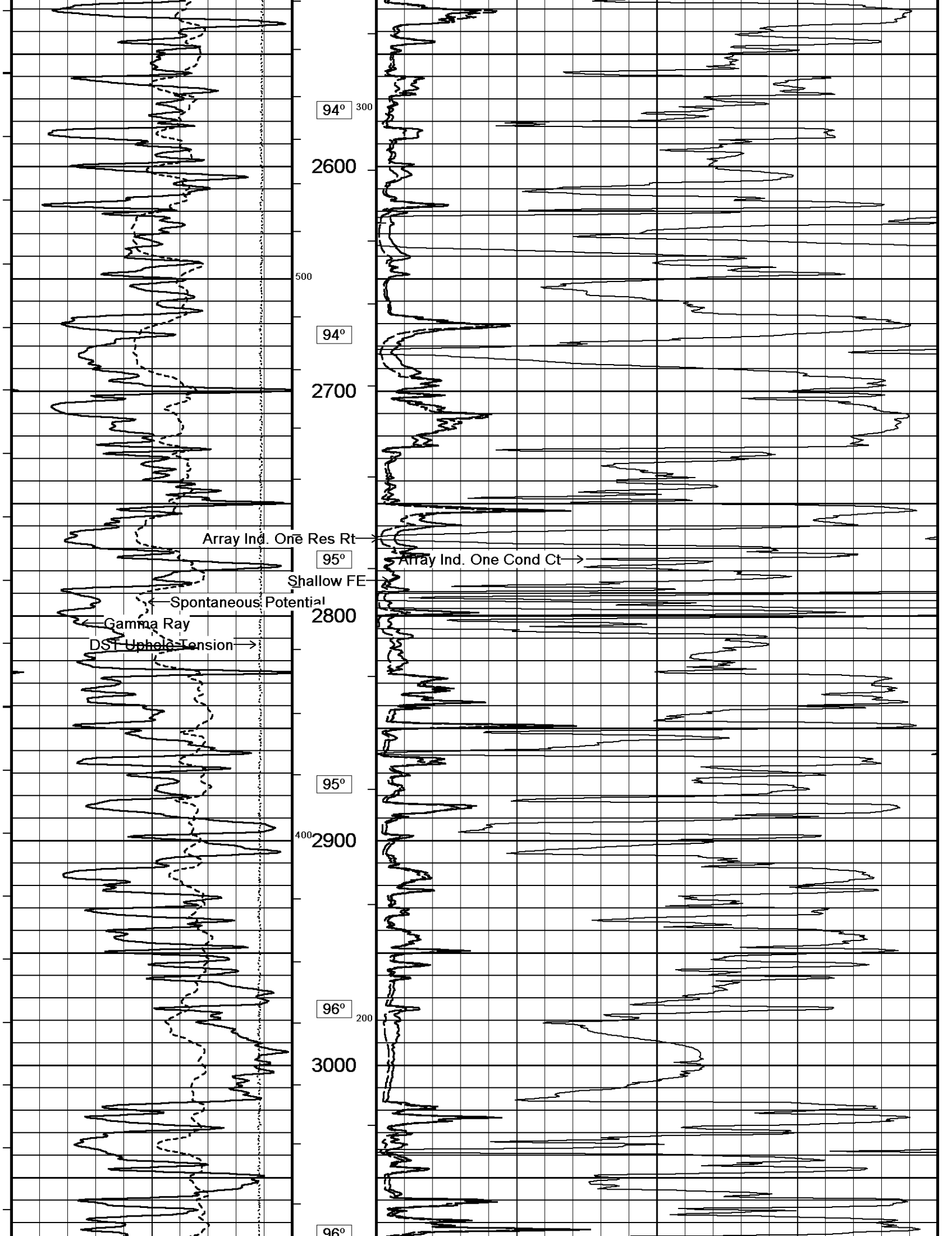


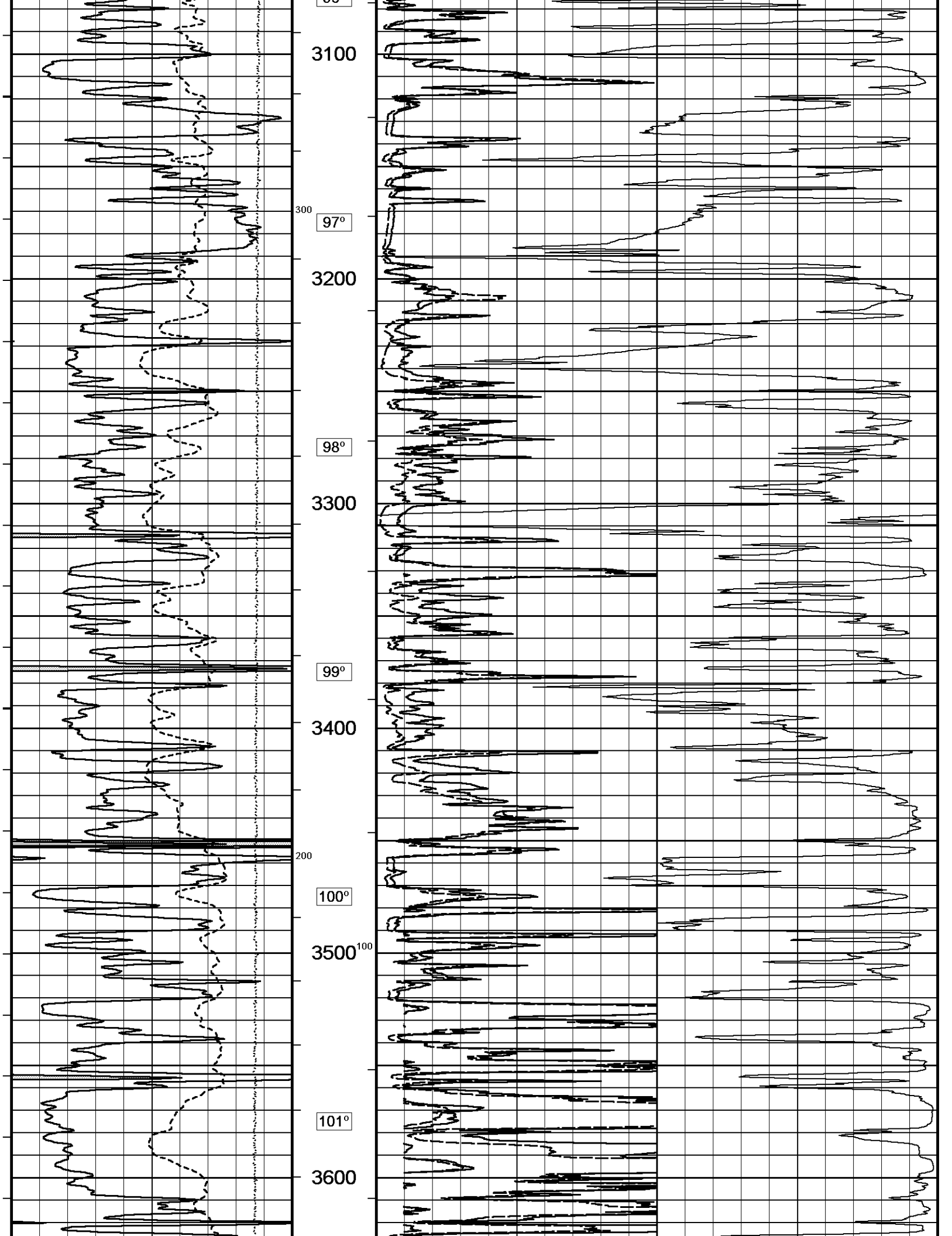


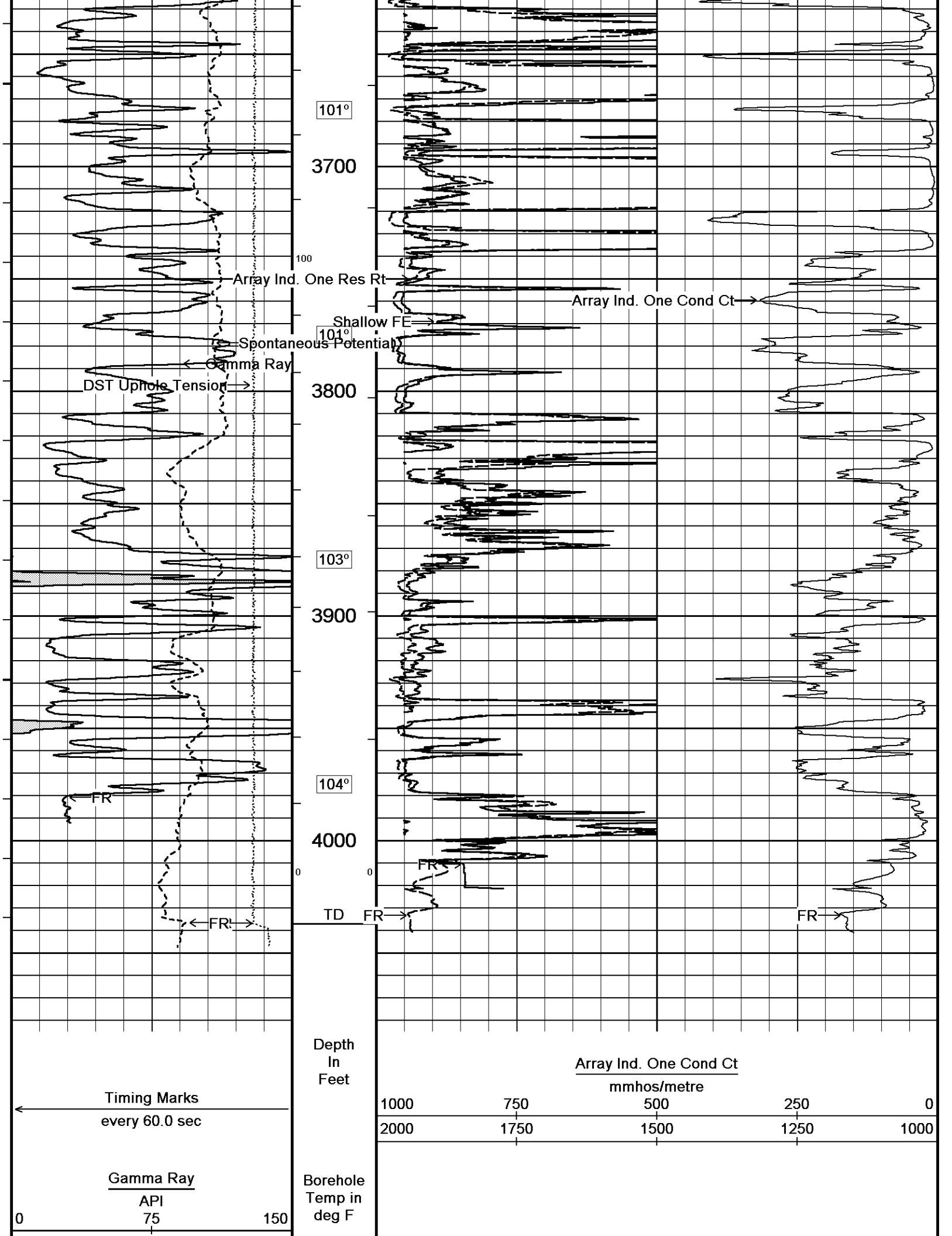


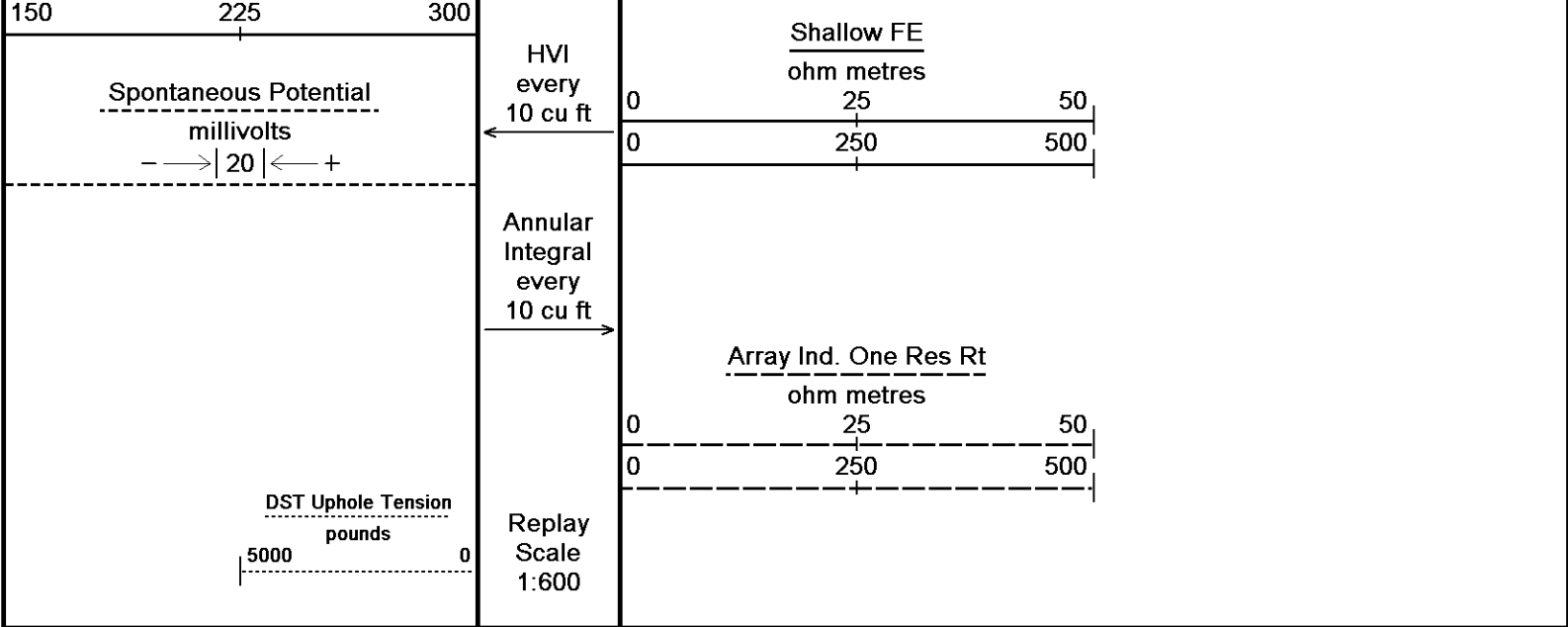










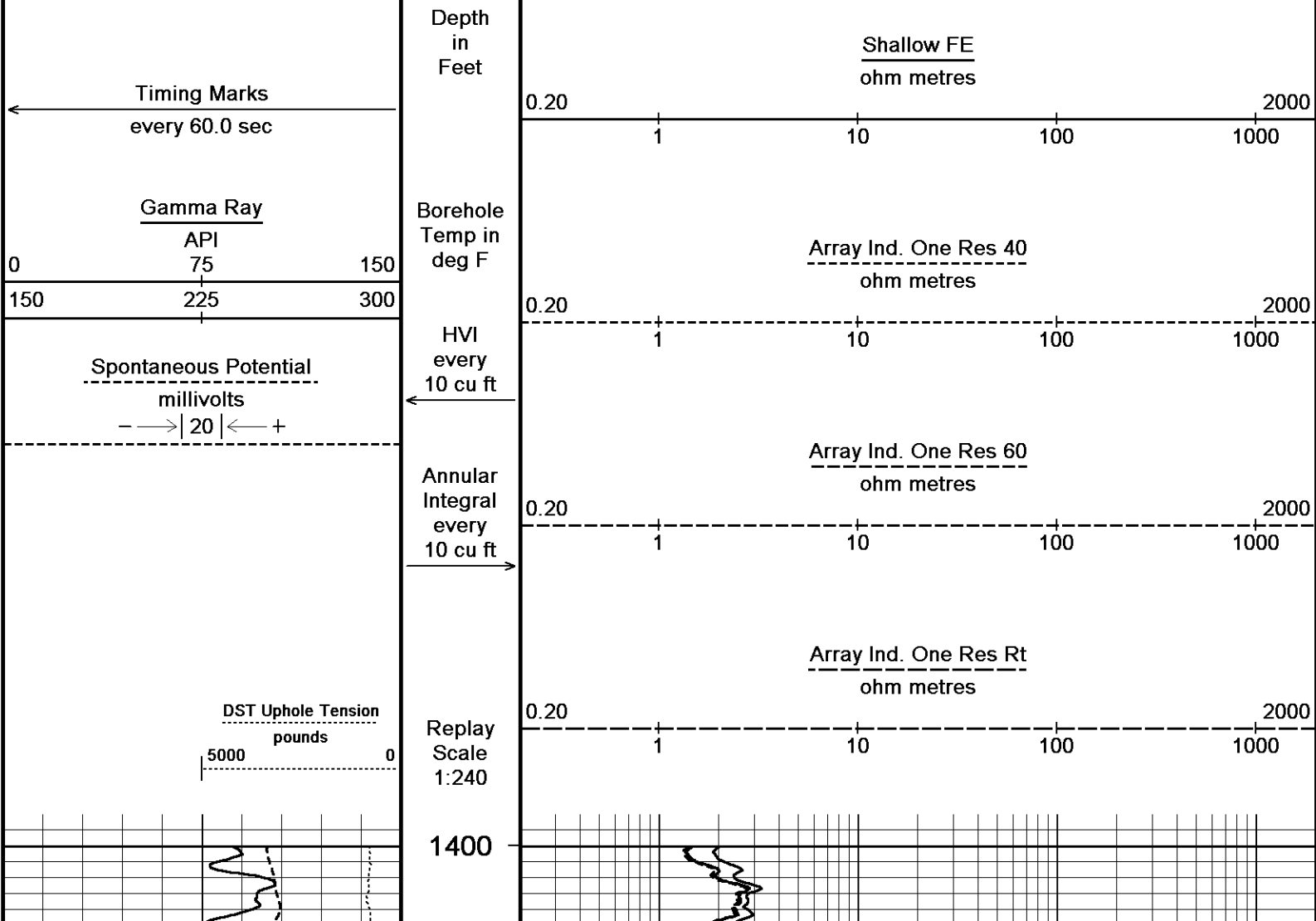


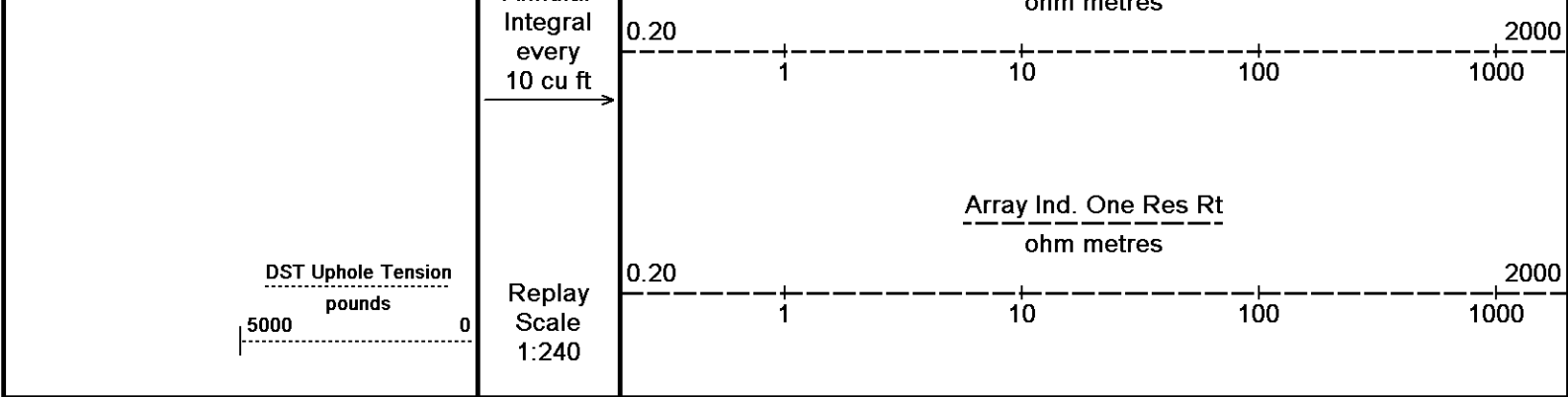
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 System Versions: Logged with 15.03.5939 Plotted with 15.03.5939

↑ 2 INCH MAIN ↑

↓ 5 INCH MAIN - ANHYDRITE ↓

Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 14-MAR-2016 18:08
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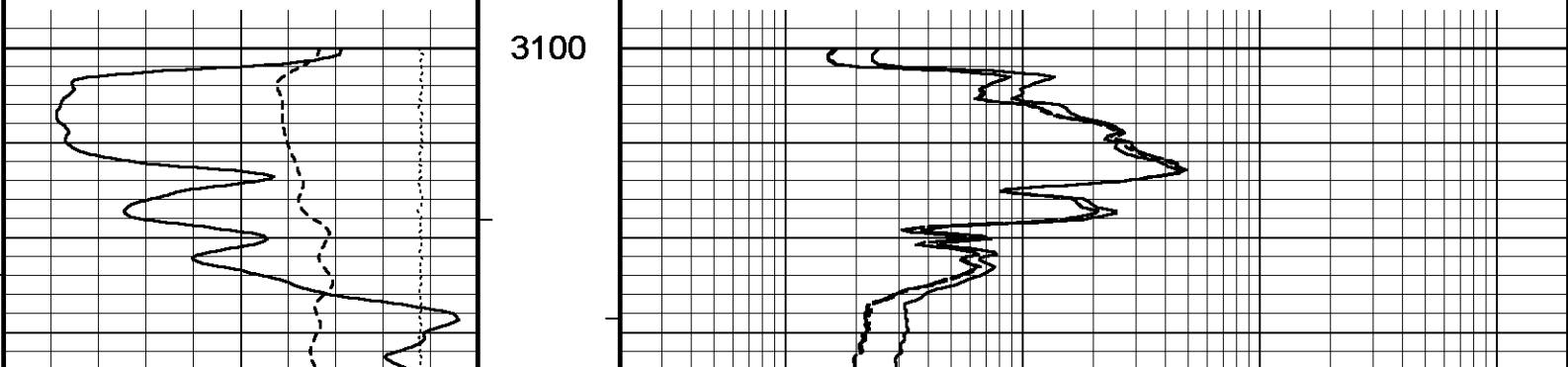
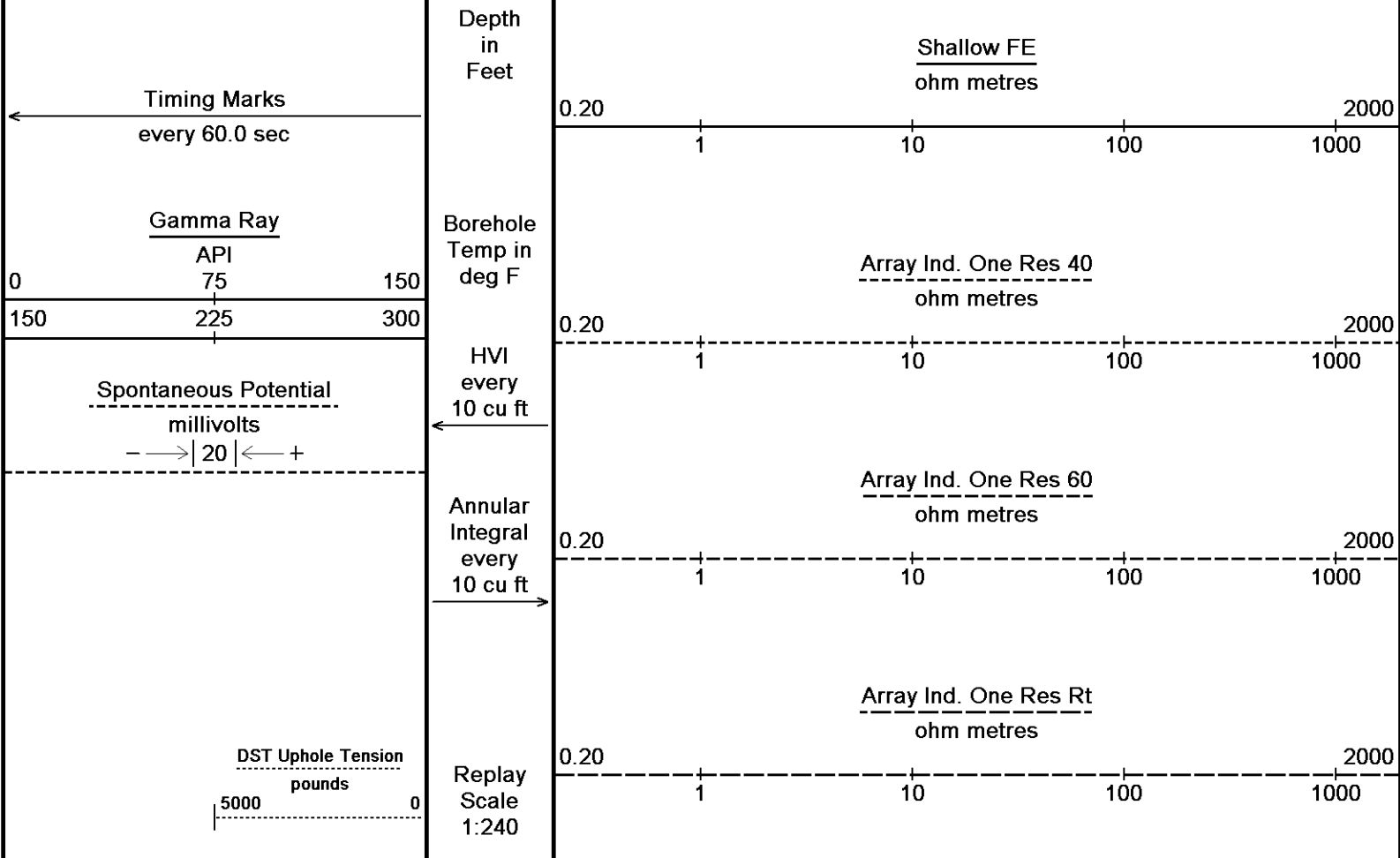


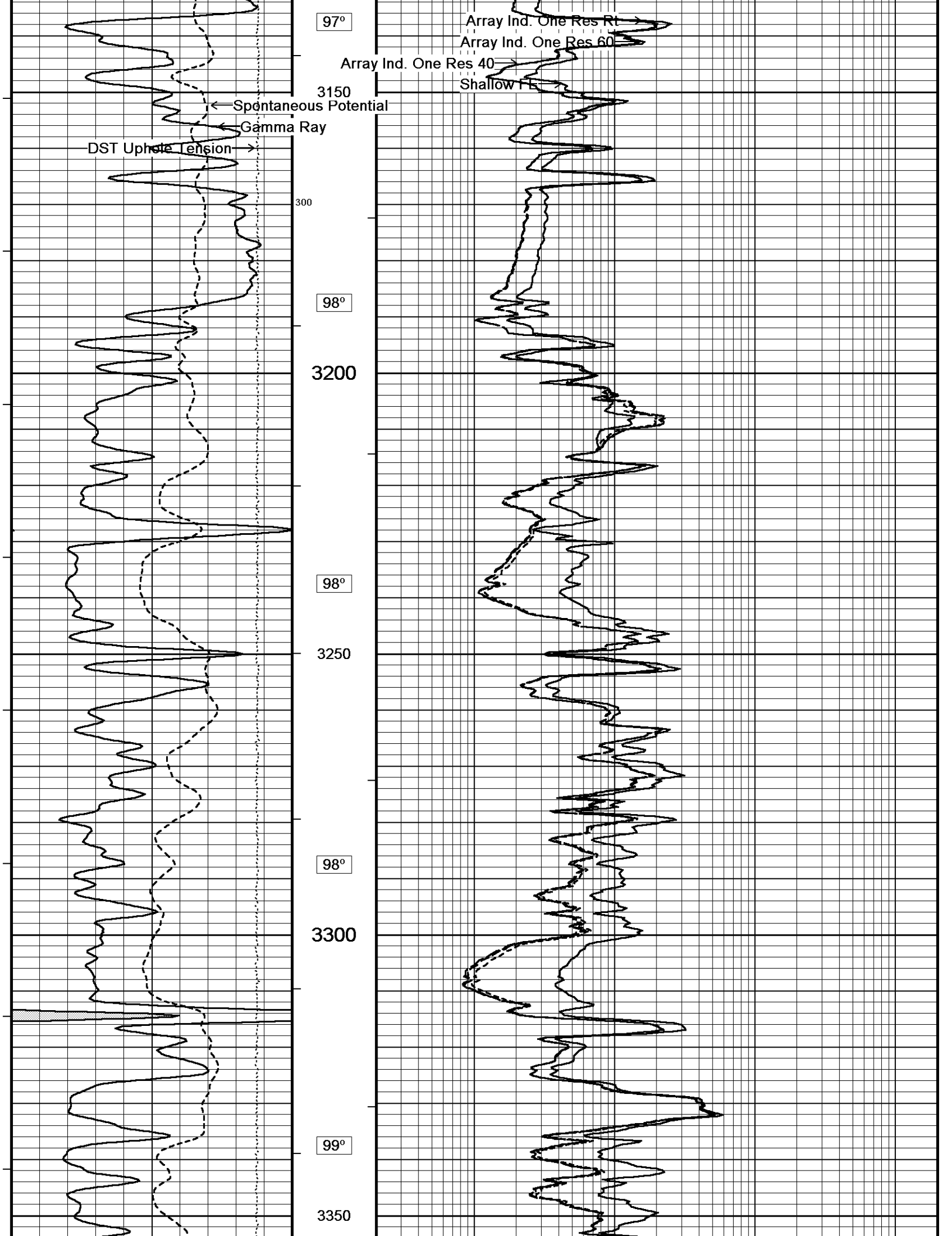
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 System Versions: Logged with 15.03.5939 Plotted with 15.03.5939

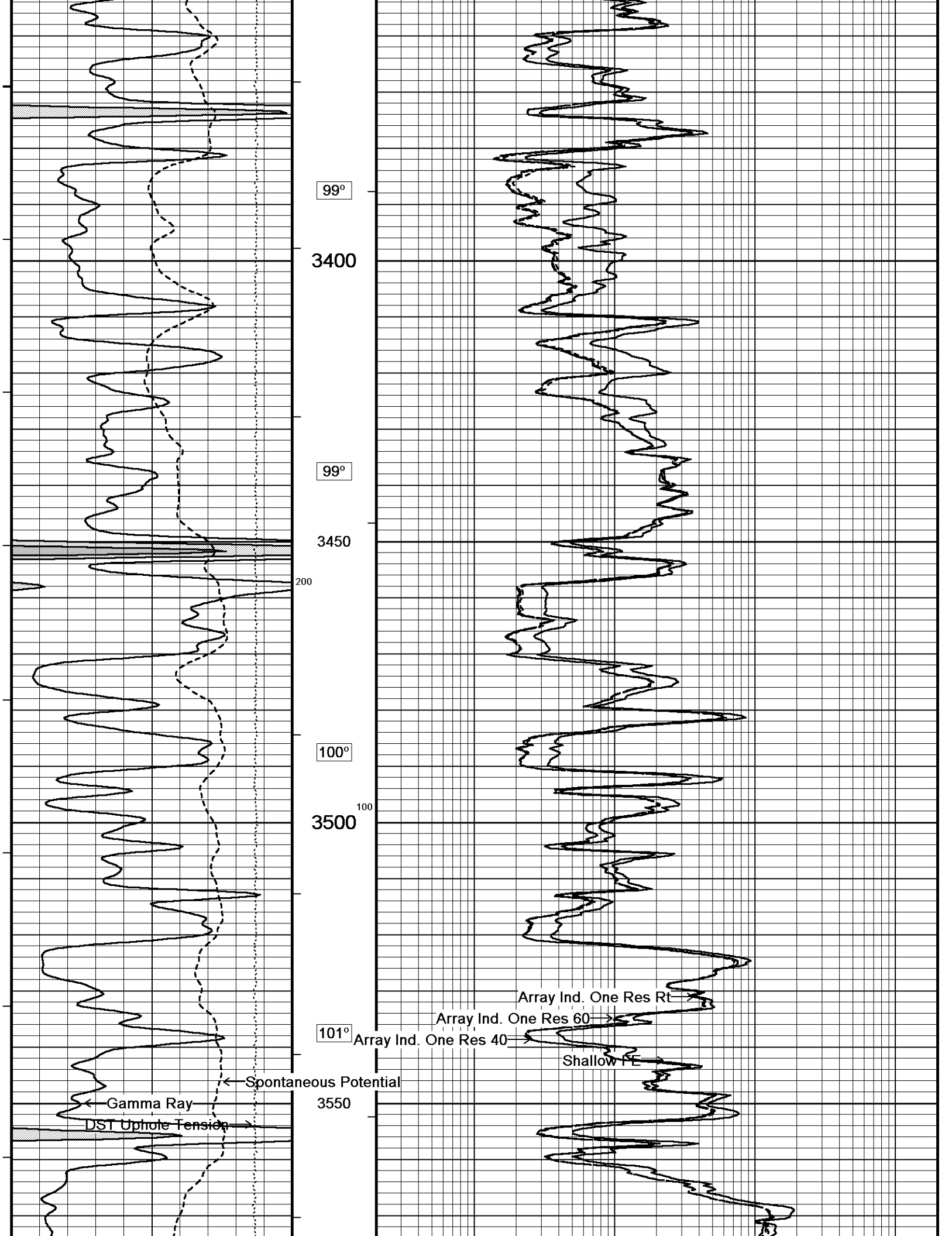
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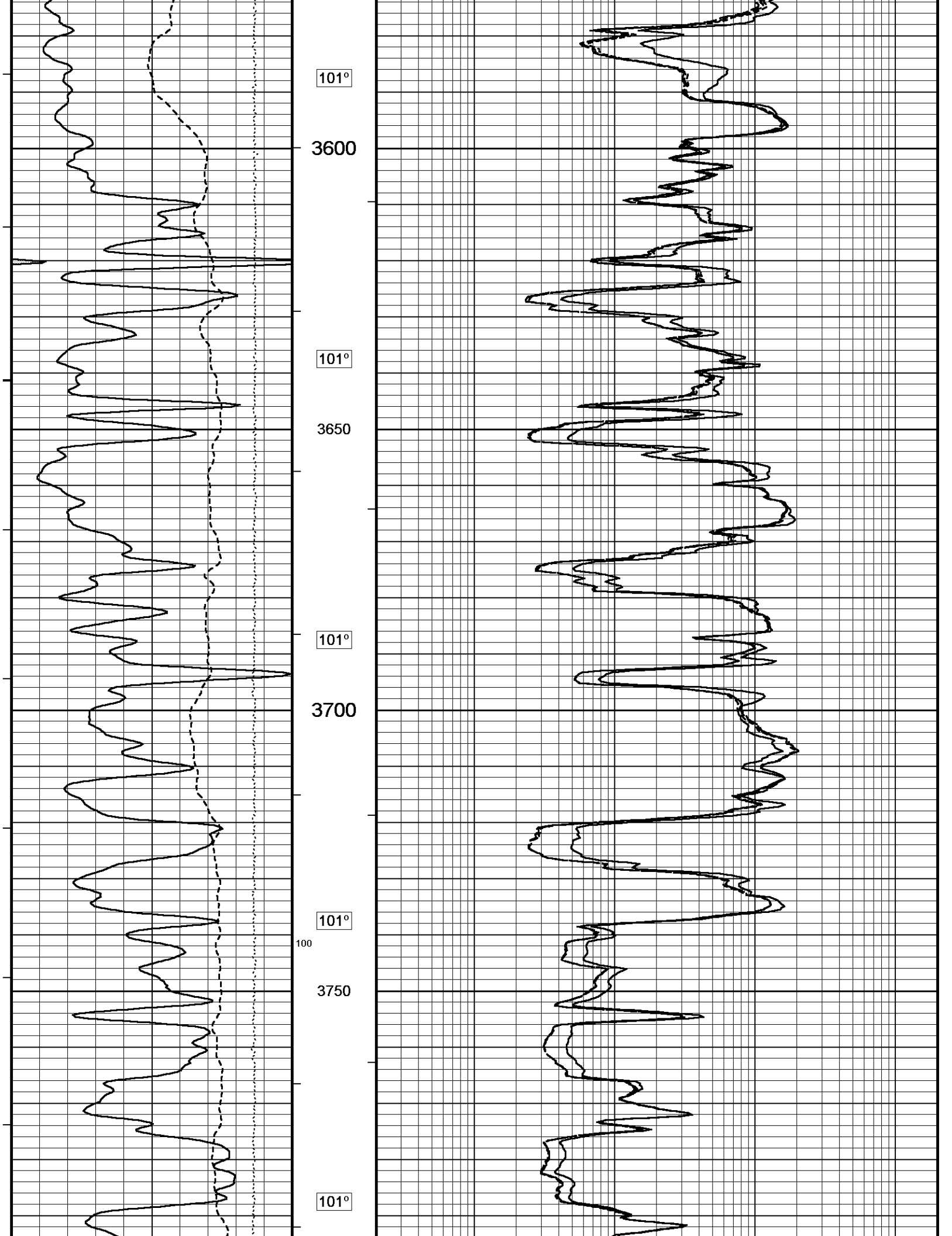
↓ 5 INCH MAIN ↓

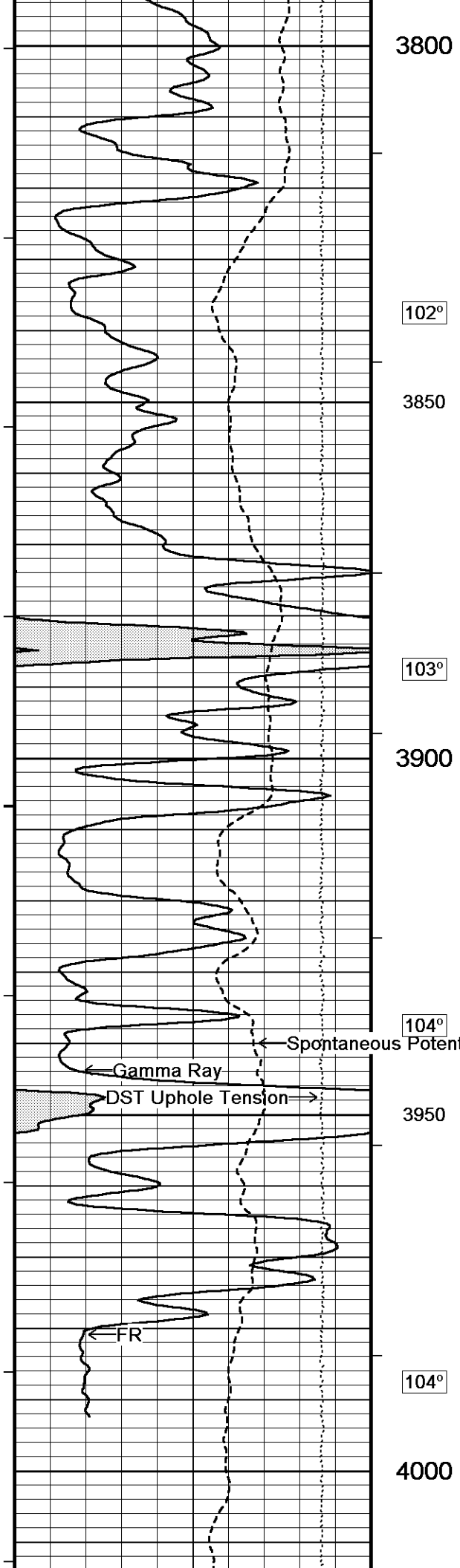
Depth Based Data - Maximum Sampling Increment 10.0cm
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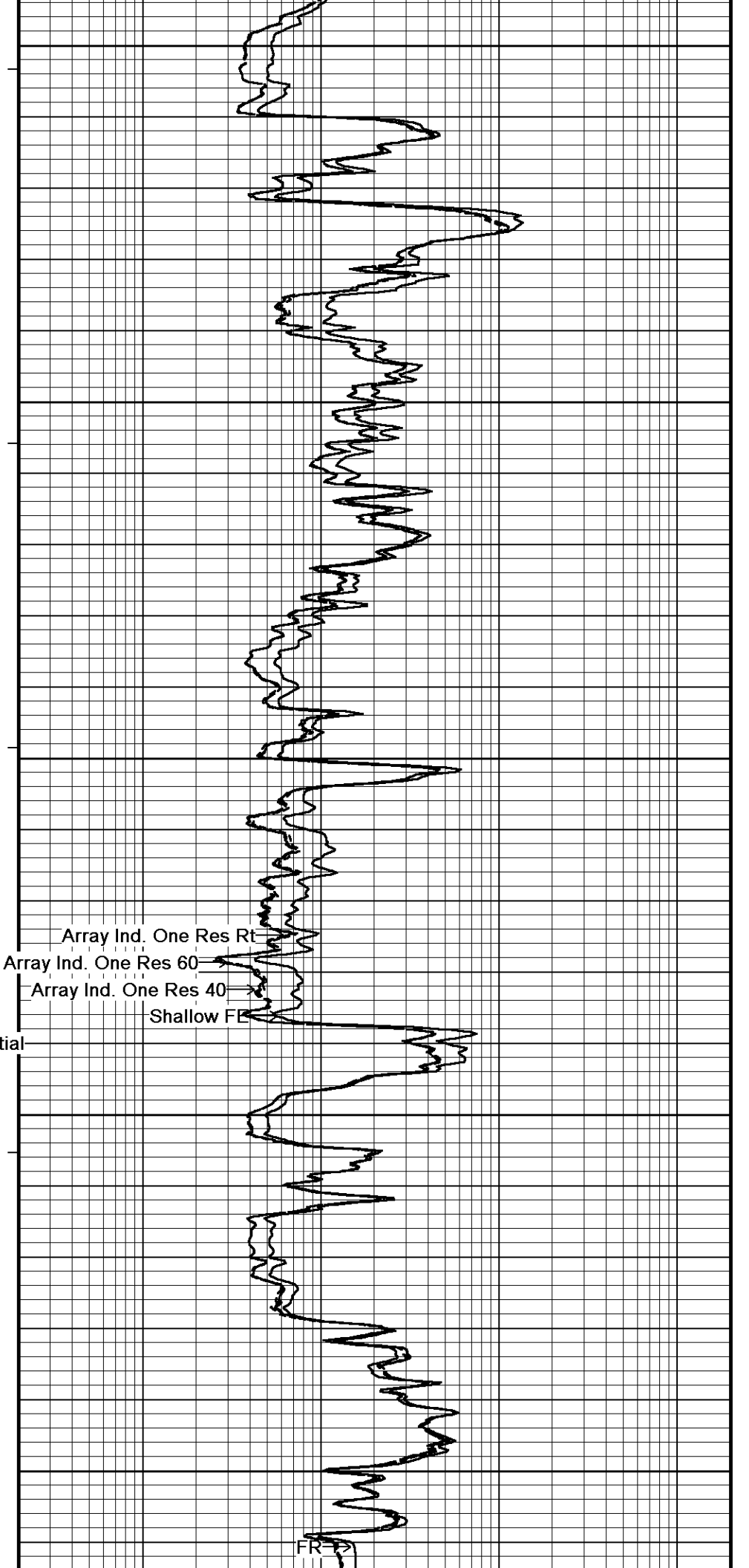




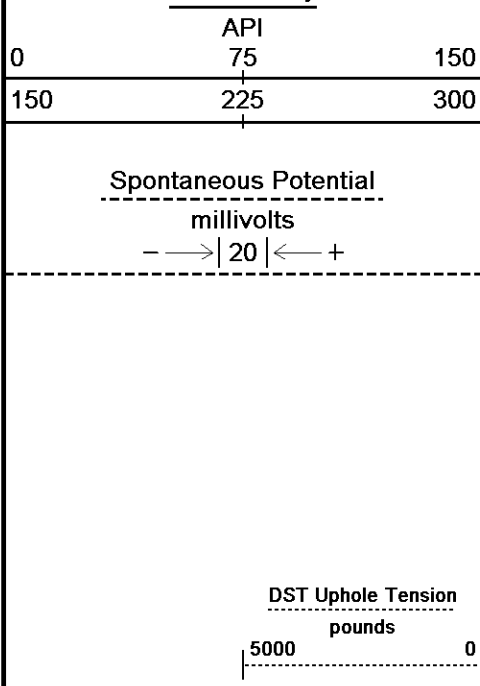


3800
102°
3850
103°
3900
104°
3950
104°
4000

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



FR

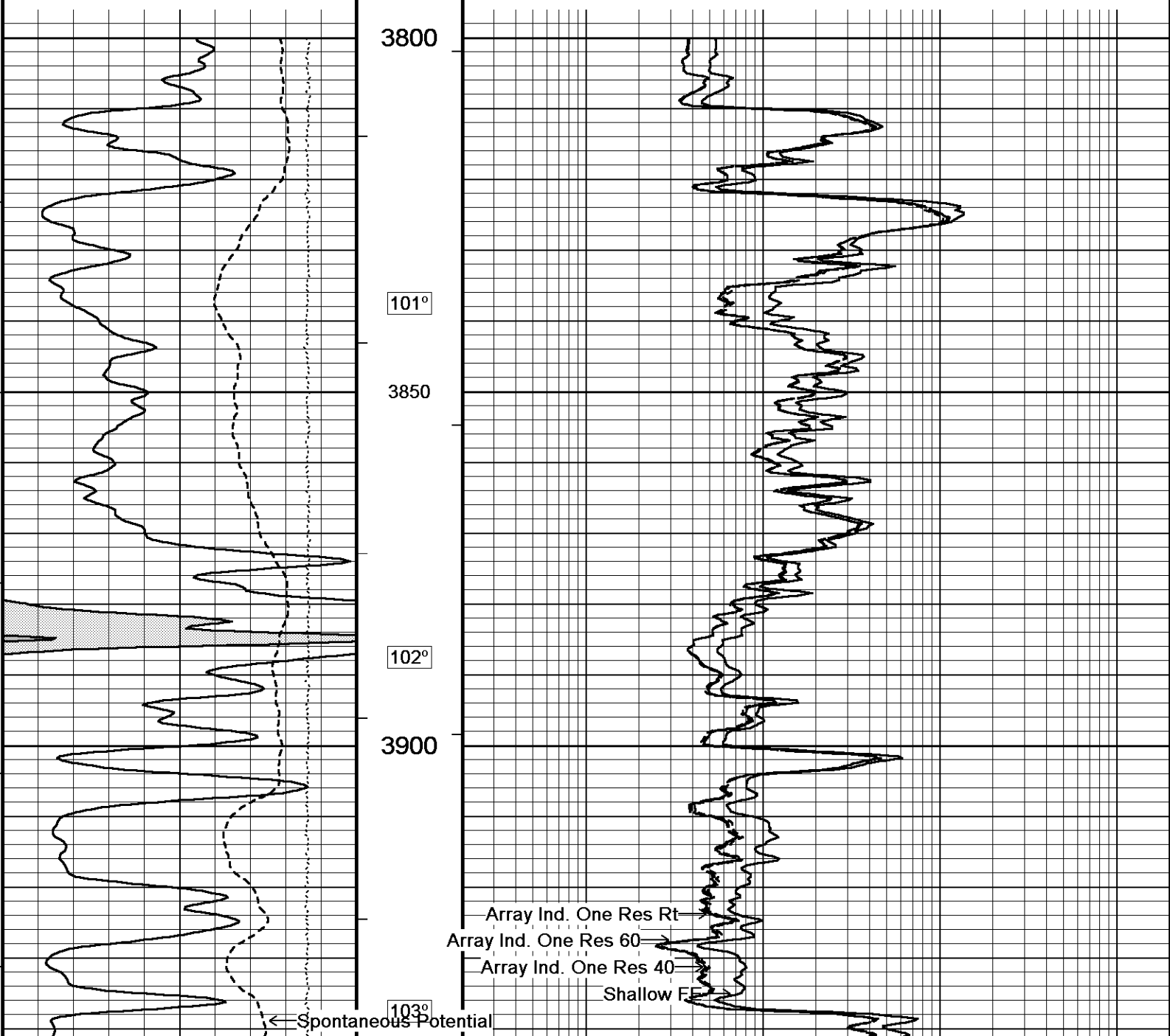
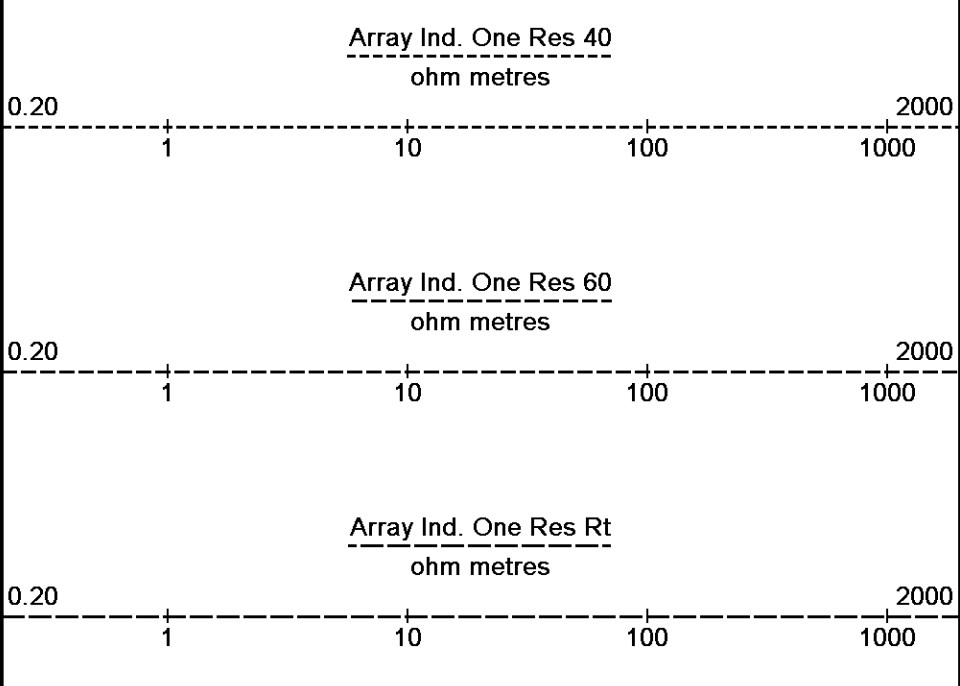


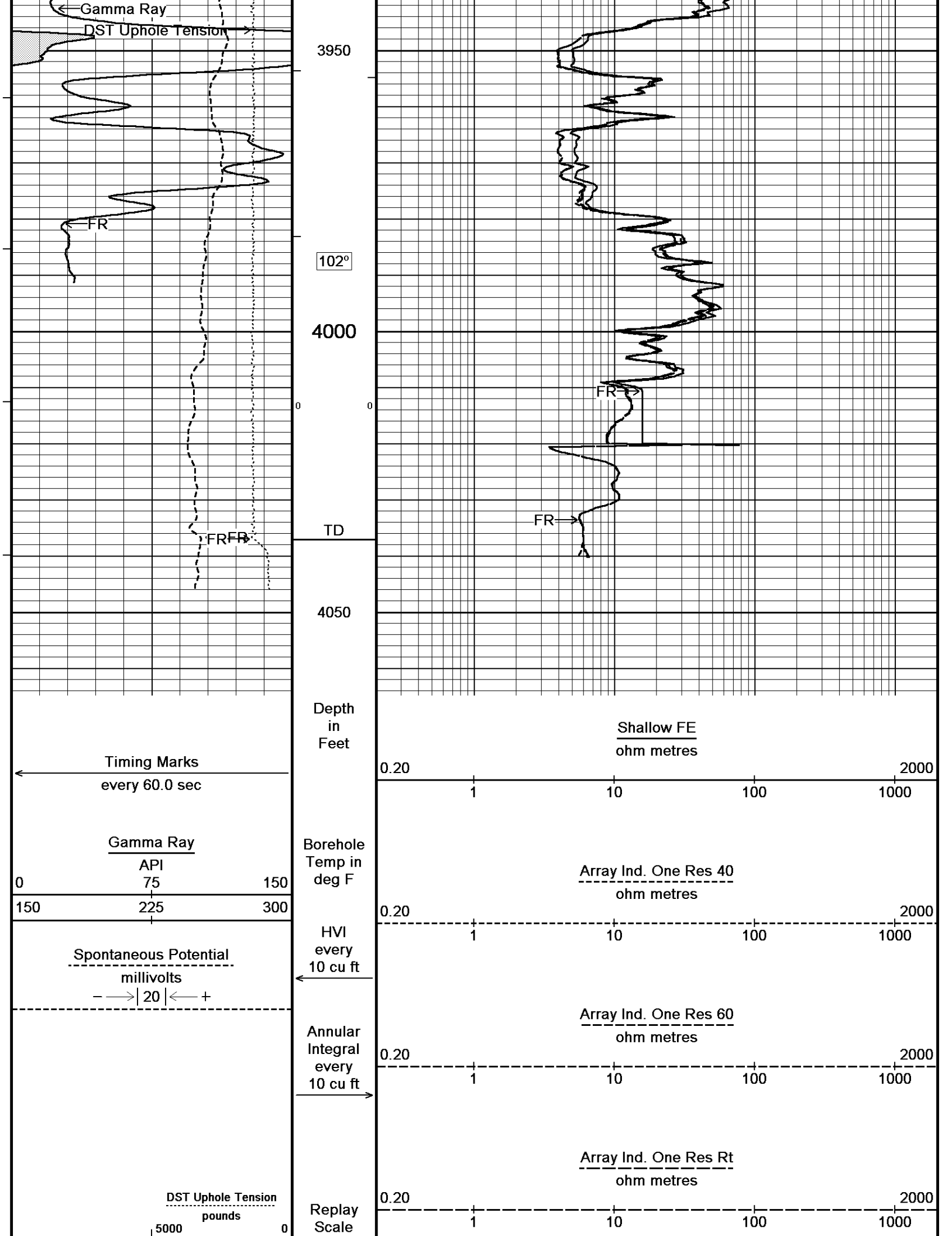
Temp in deg F

HVI every 10 cu ft

Annular Integral every 10 cu ft

Replay Scale 1:240





Depth Based Data - Maximum Sampling Increment 10.0cm

Plotted on 14-MAR-2016 18:08

Filename: C:\Minimus 15.03.5939\Logs\Daystar Deutscher B #1-2\Daystar Deutscher B #1-2_001.dta

Recorded on 14-MAR-2016 14:33

System Versions: Logged with 15.03.5939 Plotted with 15.03.5939



REPEAT SECTION



BEFORE SURVEY CALIBRATION

C:\Minimus 15.03.5939\Logs\Daystar Deutscher B #1-2\Daystar Deutscher B #1-2_001.dta

General Constants All 000

Last Edited on 14-MAR-2016,14:09

General Parameters

Mud Resistivity	0.520	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	None	

Rwa Parameters

Porosity used	Base Density Porosity
Resistivity used	Deep Induction
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 14-MAR-2016 13:45


Reading No	Measured	Calibrated (lbs)
1	9937.87	0.00
2	10554.14	500.00

Gamma Calibration MCG-C 123

Field Calibration on 14-MAR-2016 08:52

	Measured	Calibrated (API)
Background	73	51
Calibrator (Gross)	726	507
Calibrator (Net)	653	456

Gamma Calibration Tolerances MCG-C 123

Ratio	1.431		Counts/API
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Gamma Constants MCG-C 123

Last Edited on 14-MAR-2016,13:18

Gamma Calibrator Number	MCGGRCC141	
GRC-M Calibrator Jig in Use?	NO	
Inactive Background Jig in Use?	NO	
Mud Density	1.09	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Potassium Equivalence	Chloride	
K Mud Concentration	0.00	%

High Resolution Temperature Calibration MCG-C 123

Field Calibration on 31-OCT-2015,17:05

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

High Resolution Temperature Constants MCG-C 123

Last Edited on 22-SEP-2015,11:43

Pre-filter Length	11
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	Measured	Calibrated (mV)
Reference 1	100.3	100.0
Reference 2	-100.1	-99.9

Micro Normal and Micro Inverse Calibration MMR-C.A 247

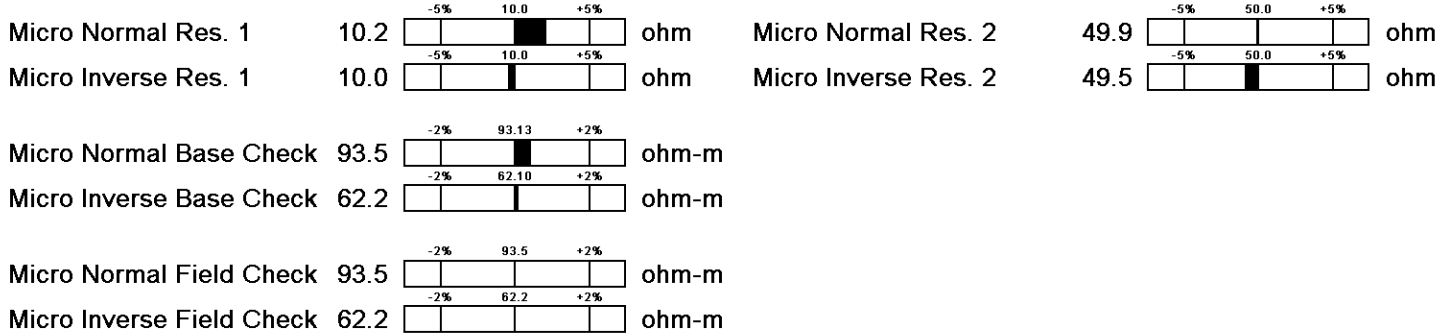
Base Calibration on 28-JAN-2016 15:04
Field Check on 14-MAR-2016 08:38

Base Calibration

Channel	Measured		Calibrated (ohm-m)	
	Resistor 1	Resistor 2	Resistor 1	Resistor 2
Micro Normal	10.2	49.9	5.1	25.6
Micro Inverse	10.0	49.5	3.4	16.9

Channel	Base Check (ohm-m)	Field Check (ohm-m)
Micro Normal	93.5	93.5
Micro Inverse	62.2	62.2

Micro Normal & Micro Inverse Calibration Tolerance MMR-C.A 247



Micro Normal and Micro Inverse Constants MMR-C.A 247

Last Edited on 20-OCT-2015,12:33

Pad Type	8-12 in Soft Rubber Inflatable 006-9011-159	
Micro Normal K Factor	0.5110	
Micro Inverse K Factor	0.3380	
Standoff Offset	0.0000	inches

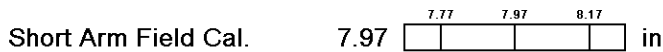
Caliper Calibration MMR-C.A 247

Base Calibration on 28-JAN-2016 14:54
Field Calibration on 14-MAR-2016 08:37

Base Calibration	Measured	Calibrator Size (in)
Reading No		
1	14598	5.98
2	17942	7.97
3	21198	9.86
4	25146	11.92
5	0	0.00
6	N/A	N/A

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

Caliper Calibration Tolerances MMR-C.A 247



Micro-Resistivity Caliper Constants MMR-C.A 247

Last Edited on

Sonde Configuration	Resistivity Mode

Neutron Calibration MDN-A.B 66

Base Calibration on 12-FEB-2016 22:05
Field Check on 14-MAR-2016 08:58

Base Calibration	Measured		Calibrated (cps)	
	Near	Far	Near	Far
Ratio	3097	96	3714	110
	32.423		33.764	

Field Calibrator at Base	Calibrated (cps)
Ratio	0.696

Field Check

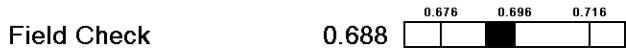
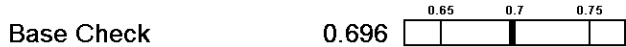
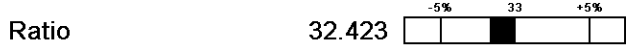
Calibrated (cps)

2115 3075

Ratio

0.688

Neutron Calibration Tolerances MDN-A.B 66



Neutron Constants MDN-A.B 66

Last Edited on 14-MAR-2016,13:18

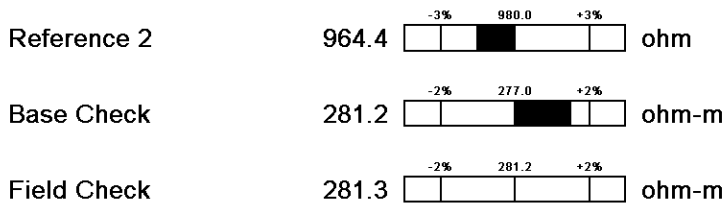
Neutron Source Id	P0204NN	
Neutron Jig Number	NJ5736	
Air Hole Processing	Legacy	
Caliper Source for Processing	Density Caliper	
Stand-off	0.00	inches
Mud Density	1.00	gm/cc
Limestone Sigma	7.10	cu
Sandstone Sigma	4.26	cu
Dolomite Sigma	4.70	cu
Formation Pressure Source	None	
Formation Pressure	N/A	kpsi
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 352

Base Calibration on 09-NOV-2015 11:10
Field Check on 14-MAR-2016 08:30

Base Calibration		
	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	964.4	126.8
Base Check		281.2
Field Check		281.3

FE Calibration Tolerances MFE-B.J 352



FE Constants MFE-B.J 352

Last Edited on 14-MAR-2016,13:17

Running Mode	No Sleeve	
MFE K Factor	0.1268	
Borehole Correction Constants		
Sonde Position	0.5	inches
Hole Size Source	Density Caliper	
Hole Size Constant Value	N/A	inches
Rm Source	Global Value: Temperature Corrected	
Temp. for Rm Corr.	MCG External Temperature	

Sonic Constants MSS-A.A 55

Last Edited on 14-MAR-2016,13:17

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
Sonic 2 Despiker	N/A

Induction Calibration MAI-A.A 111

Base Calibration on 05-AUG-2014,09:34
Field Check on 14-MAR-2016 08:29

Base Calibration

Test Loop Calibration Channel	Measured		Calibrated (mmho/m)	
	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

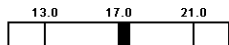
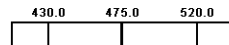
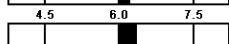
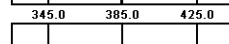
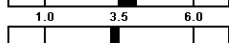
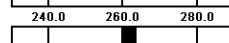
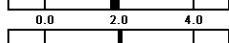
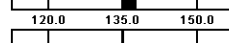
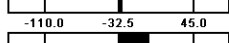
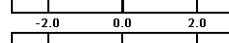
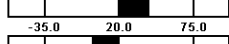
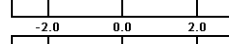
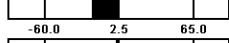
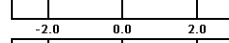
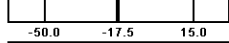
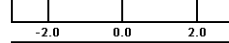
Array Temperature 23.0 Deg F

Test Loop Calibration Verified 09-DEC-2015 11:03

Channel	Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High
1	12.1	3873.0	11.8	3871.7
2	22.2	2522.4	22.2	2522.4

2	29.8	3528.1	29.8	3527.3
3	29.1	3021.3	29.1	3020.7
4	19.1	2058.5	19.2	2058.1
Deep	17.7	1962.1	17.7	1961.6
Medium	43.1	3976.4	43.2	3975.7
Shallow	44.4	5232.7	44.4	5231.5
Array Temperature	65.8		59.4 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 14-MAR-2016,13:17

Induction Model	RtAP-WBM		
Borehole Correction Constants			
Tool Centred	No		
Hole Size Source	Density Caliper		
Hole Size Constant Value	N/A	inches	
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	
Rm Source	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
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	
Symmetrised Receiver Gains			
Receiver 1	1.00		
Receiver 2	1.00		
Receiver 3	1.00		
Receiver 4	1.00		
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		

0.00
0.00

0.00
0.00

Caliper Calibration MPD-B 104

Base Calibration on 12-FEB-2016 20:54
Field Calibration on 14-MAR-2016 08:32

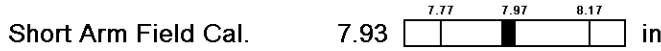
Base Calibration

Reading No	Measured	Calibrator Size (in)
1	13189	3.99
2	22005	5.98
3	30656	7.97
4	38848	9.86
5	47902	11.92
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
7.93	7.97

Caliper Calibration Tolerances MPD-B 104



DOWNHOLE EQUIPMENT

C:\Minimus 15.03.5939\Log\Daystar Deutscher B #1-2\Daystar Deutscher B #1-2_001.dta

Cablehead, 11 pin
CBH-CA 155 LG: 2.40 ft WT: 24.3 lb OD: 2.244 in

Compact Comms Gamma
MCG-C 123 LG: 8.70 ft WT: 63.9 lb OD: 2.244 in

Compact Micro-Resistivity
MMR-C.A 247 LG: 8.59 ft WT: 81.6 lb OD: 4.882 in

Compact Neutron
MDN-A.B 66 LG: 5.04 ft WT: 50.7 lb OD: 2.244 in

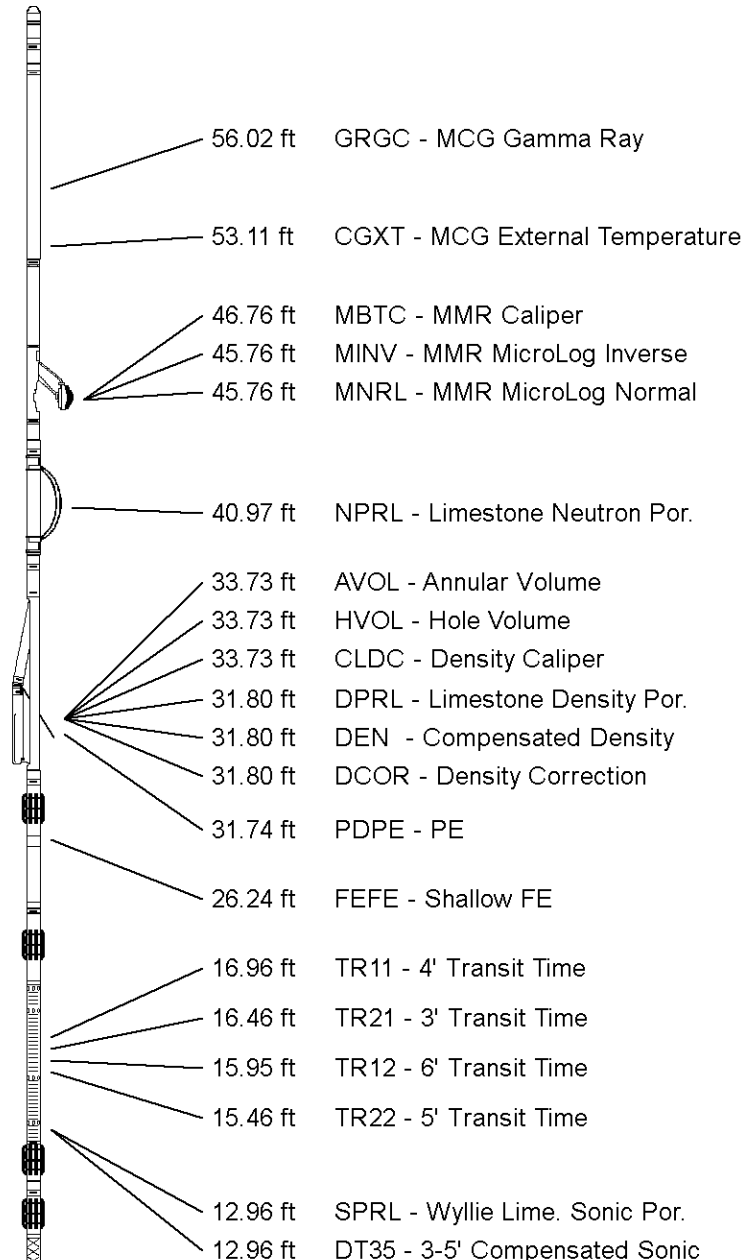
Compact Density/Caliper
MPD-B 104 LG: 9.59 ft WT: 90.4 lb OD: 2.449 in

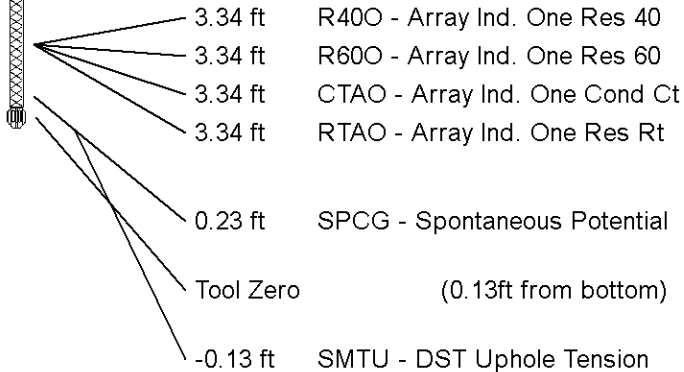
Compact Focussed Electric
MFE-B.J 352 LG: 6.05 ft WT: 48.5 lb OD: 2.244 in

Compact Sonic
MSS-A.A 55 LG: 12.52 ft WT: 72.8 lb OD: 2.244 in

Compact Induction
MAI-A.A 111 LG: 10.81 ft WT: 48.5 lb OD: 2.244 in

Total Length: 63.70 ft Weight: 480.6 lb





All measurements relative to tool zero.

COMPANY	DAYSTAR PETROLEUM, INC.				
WELL	DEUTSCHER B #1-2				
FIELD	WILDCAT				
PROVINCE/COUNTY	TREGO				
COUNTRY/STATE	U.S.A. / KANSAS				
Elevation Kelly Bushing	2131.00	feet	First Reading	4034.00	feet
Elevation Drill Floor	2129.00	feet	Depth Driller	4040.00	feet
Elevation Ground Level	2123.00	feet	Depth Logger	4037.00	feet



Weatherford

**ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG**

Weatherford		ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG	
COMPANY	DAYSTAR PETROLEUM, INC.	LOG NUMBER	15-195-2003
WELL	DEUTSCHER B #1-2	LOG DATE	14-MAR-2016
FIELD	WILDCAT	LOG TIME	15:00
PROVINCE/COUNTY	TREGO	LOG TYPE	15S
COUNTRY/STATE	U.S.A. / KANSAS	LOG REC	21W
LOCATION	1330' ESL & 395' FWL	LOG MON	MON
SEC	2	LOG MNS	MNS
DATE	14-MAR-2016	LOG MNL	MNL
LOG TIME	15:00	LOG ELEV	2131.00
LOG TYPE	15S	LOG DF	2129.00
LOG REC	21W	LOG GL	2123.00
LOG MON	MON		
LOG MNS	MNS		
LOG MNL	MNL		
LOG SERVICE			
LOG PERM			
LOG MEAS			
LOG CORR			
LOG ADJ			
LOG SCA			
LOG FLD			
LOG HVI			
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LOG R600			

Array Ind. One Res Rt

ohm metres

0 25 50
0 250 500

DST Uphole Tension
pounds

5000 0

Replay
Scale
1:600

250
Casing
Shoe

300

83°

400

82°

500

84°

600

84°

700

83°

800

Array Ind. One Res Rt

Array Ind. One Cond Cl

Shallow F₁

Spontaneous Potential

Gamma Ray

DST Uphole Tension

82°

900

81°

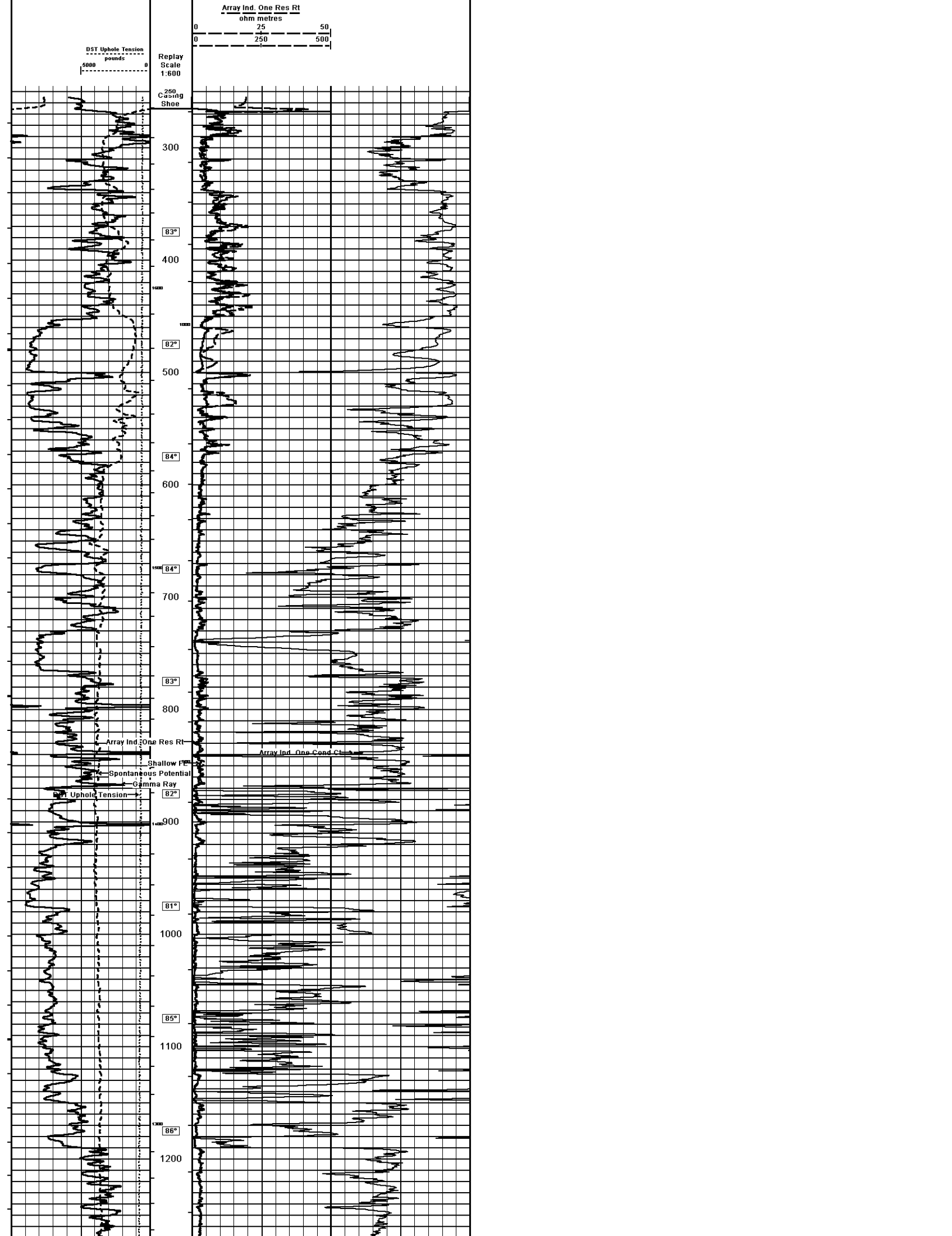
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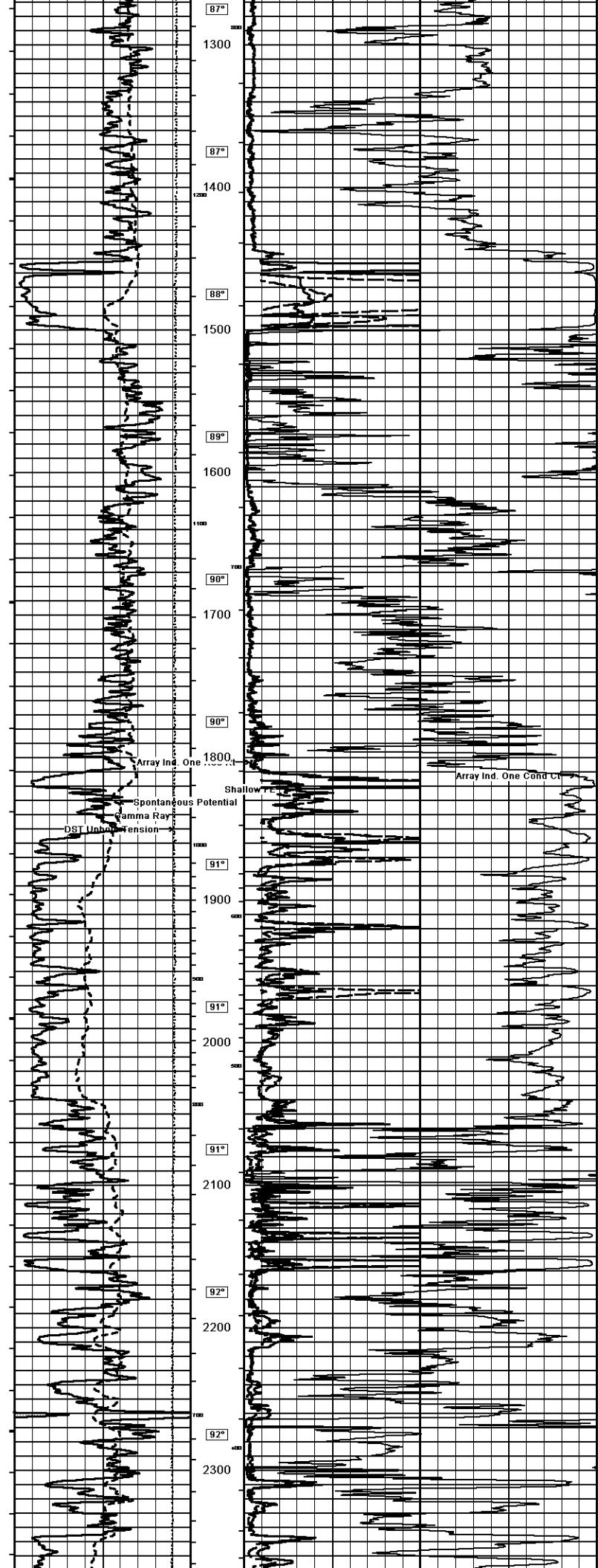
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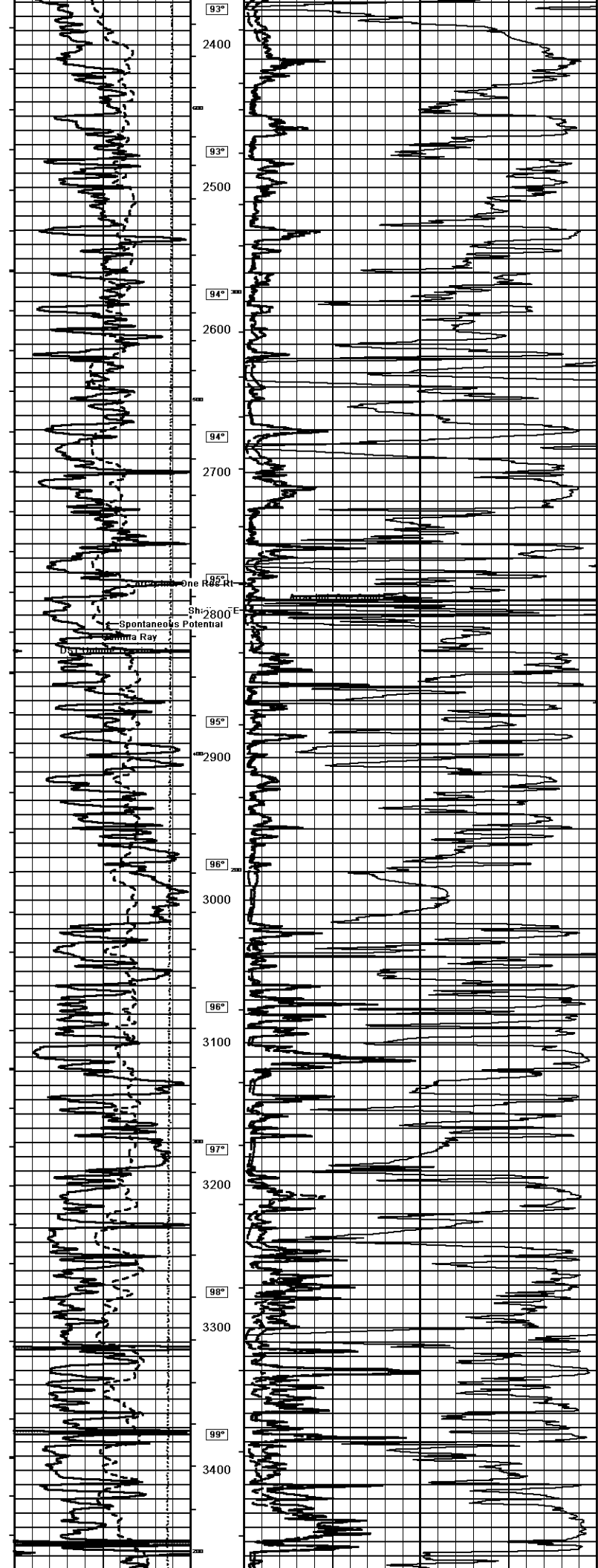
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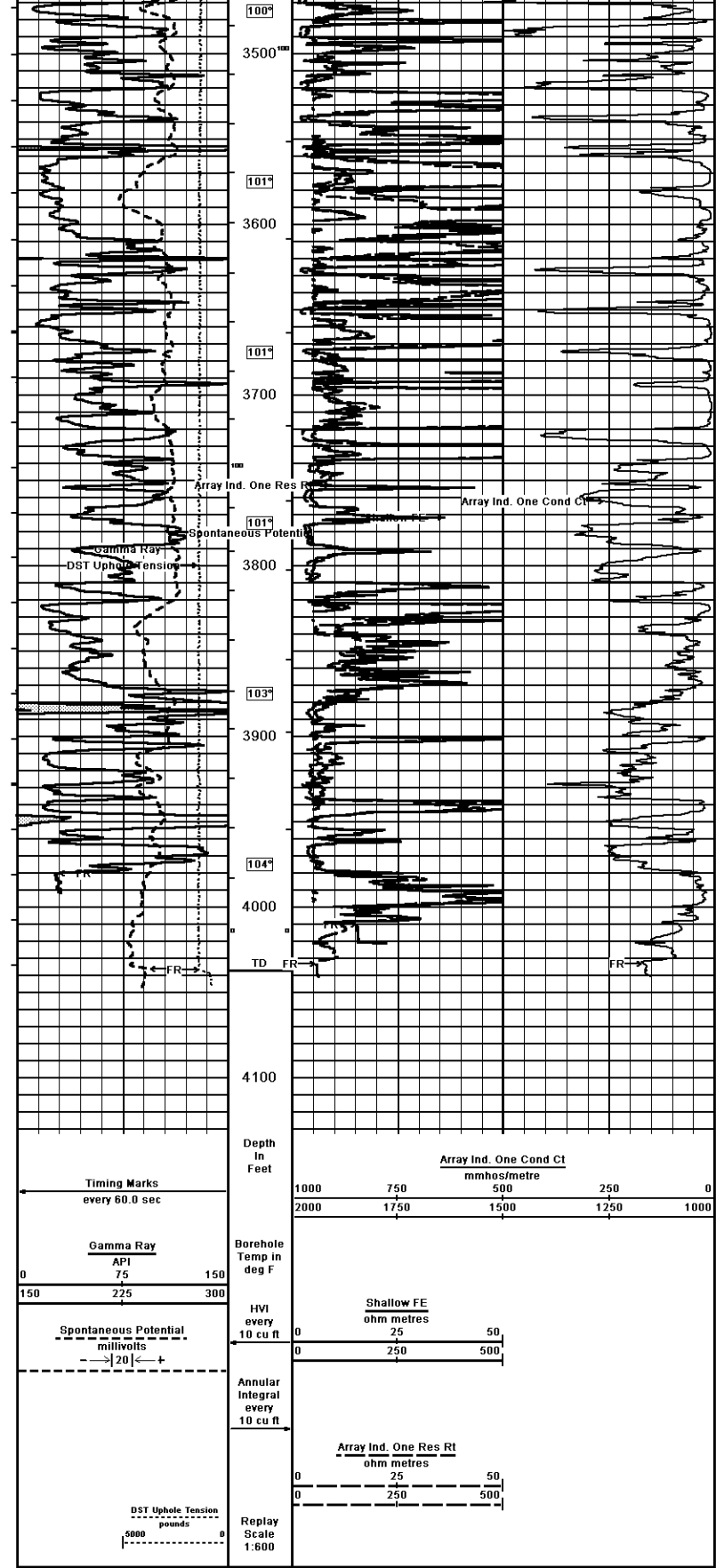
86°

1200









↑ 1 INCH MAIN ↓

COMPANY		DAYSTAR PETROLEUM, INC.			
WELL		DEUTSCHER B #1-2			
FIELD		WILDCAT			
PROVINCE/COUNTY		TRIGO			
COUNTRY/STATE		U.S.A. / KANSAS			
Elevation Kelly Bushing	2131.00	feet	First Reading	4034.00	feet
Elevation Drill Floor	2129.00	feet	Depth Driller	4040.00	feet
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