

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form CP-1

March 2010

This Form must be Typed**Form must be Signed****All blanks must be Filled****WELL PLUGGING APPLICATION**

*Form KSONA-1, Certification of Compliance with the Kansas Surface Owner Notification Act,
MUST be submitted with this form.*

OPERATOR: License #: _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

API No. 15 - _____

If pre 1967, supply original completion date: _____

Spot Description: _____

____ - ____ - ____ Sec. ____ Twp. ____ S. R. ____ ☐ East ☐ West____ Feet from ☐ North / ☐ South Line of Section____ Feet from ☐ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

☐ NE ☐ NW ☐ SE ☐ SW

County: _____

Lease Name: _____ Well #: _____

Check One: ☐ Oil Well ☐ Gas Well ☐ OG ☐ D&A ☐ Cathodic ☐ Water Supply Well ☐ Other: _____☐ SWD Permit #: _____ ☐ ENHR Permit #: _____ ☐ Gas Storage Permit #: _____

Conductor Casing Size: _____ Set at: _____ Cemented with: _____ Sacks

Surface Casing Size: _____ Set at: _____ Cemented with: _____ Sacks

Production Casing Size: _____ Set at: _____ Cemented with: _____ Sacks

List (ALL) Perforations and Bridge Plug Sets:

Elevation: _____ (☐ G.L. / ☐ K.B.) T.D.: _____ PBTD: _____ Anhydrite Depth: _____
(Stone Corral Formation)Condition of Well: ☐ Good ☐ Poor ☐ Junk in Hole ☐ Casing Leak at: _____
(Interval)

Proposed Method of Plugging (attach a separate page if additional space is needed):

Is Well Log attached to this application? ☐ Yes ☐ No Is ACO-1 filed? ☐ Yes ☐ No

If ACO-1 not filed, explain why:

Plugging of this Well will be done in accordance with K.S.A. 55-101 et. seq. and the Rules and Regulations of the State Corporation Commission

Company Representative authorized to supervise plugging operations: _____

Address: _____ City: _____ State: _____ Zip: _____ + _____

Phone: (_____) _____

Plugging Contractor License #: _____ Name: _____

Address 1: _____ Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Phone: (_____) _____

Proposed Date of Plugging (if known): _____

Payment of the Plugging Fee (K.A.R. 82-3-118) will be guaranteed by Operator or Agent

Submitted Electronically

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form KSONA-1

July 2021

Form Must Be Typed

Form must be Signed

All blanks must be Filled

CERTIFICATION OF COMPLIANCE WITH THE KANSAS SURFACE OWNER NOTIFICATION ACT

This form must be submitted with all Forms C-1 (Notice of Intent to Drill); CB-1 (Cathodic Protection Borehole Intent); T-1 (Request for Change of Operator Transfer of Injection or Surface Pit Permit); and CP-1 (Well Plugging Application). Any such form submitted without an accompanying Form KSONA-1 will be returned.

Select the corresponding form being filed: ☐ C-1 (Intent) ☐ CB-1 (Cathodic Protection Borehole Intent) ☐ T-1 (Transfer) ☐ CP-1 (Plugging Application)

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____ Fax: (_____) _____

Email Address: _____

Well Location:

____ - ____ - ____ Sec. ____ Twp. ____ S. R. ____ ☐ East ☐ West

County: _____

Lease Name: _____ Well #: _____

If filing a Form T-1 for multiple wells on a lease, enter the legal description of the lease below:

Surface Owner Information:

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

When filing a Form T-1 involving multiple surface owners, attach an additional sheet listing all of the information to the left for each surface owner. Surface owner information can be found in the records of the register of deeds for the county, and in the real estate property tax records of the county treasurer.

If this form is being submitted with a Form C-1 (Intent) or CB-1 (Cathodic Protection Borehole Intent), you must supply the surface owners and the KCC with a plat showing the predicted locations of lease roads, tank batteries, pipelines, and electrical lines. The locations shown on the plat are preliminary non-binding estimates. The locations may be entered on the Form C-1 plat, Form CB-1 plat, or a separate plat may be submitted.

Select one of the following:

- ☐ I certify that, pursuant to the Kansas Surface Owner Notice Act (see Chapter 55 of the Kansas Statutes Annotated), I have provided the following to the surface owner(s) of the land upon which the subject well is or will be located: 1) a copy of the Form C-1, Form CB-1, Form T-1, or Form CP-1 that I am filing in connection with this form; 2) if the form being filed is a Form C-1 or Form CB-1, the plat(s) required by this form; and 3) my operator name, address, phone number, fax, and email address.
- ☐ I have not provided this information to the surface owner(s). I acknowledge that, because I have not provided this information, the KCC will be required to send this information to the surface owner(s). To mitigate the additional cost of the KCC performing this task, I acknowledge that I must provide the name and address of the surface owner by filling out the top section of this form and that I am being charged a \$30.00 handling fee, payable to the KCC, which is enclosed with this form.

If choosing the second option, submit payment of the \$30.00 handling fee with this form. If the fee is not received with this form, the KSONA-1 form and the associated Form C-1, Form CB-1, Form T-1, or Form CP-1 will be returned.

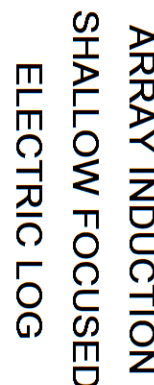
I Submitted Electronically

I

Form	CP1 - Well Plugging Application
Operator	Shakespeare Oil Co., Inc.
Well Name	OTTLEY 2-21
Doc ID	1834120

Perforations And Bridge Plug Sets

Perforation Top	Perforation Base	Formation	Bridge Plug Depth
3985	3989	LKC-I	
3992	3995	LenapahLKC-I	
4015	4018	LKC-J	
4216	4220	Marmaton B	
4268	4272	Myric Station	
4294	4297	Ft Scott	
4355	4362	Johnson	
4364	4369	Johnson	
4372	4376	Johnson	



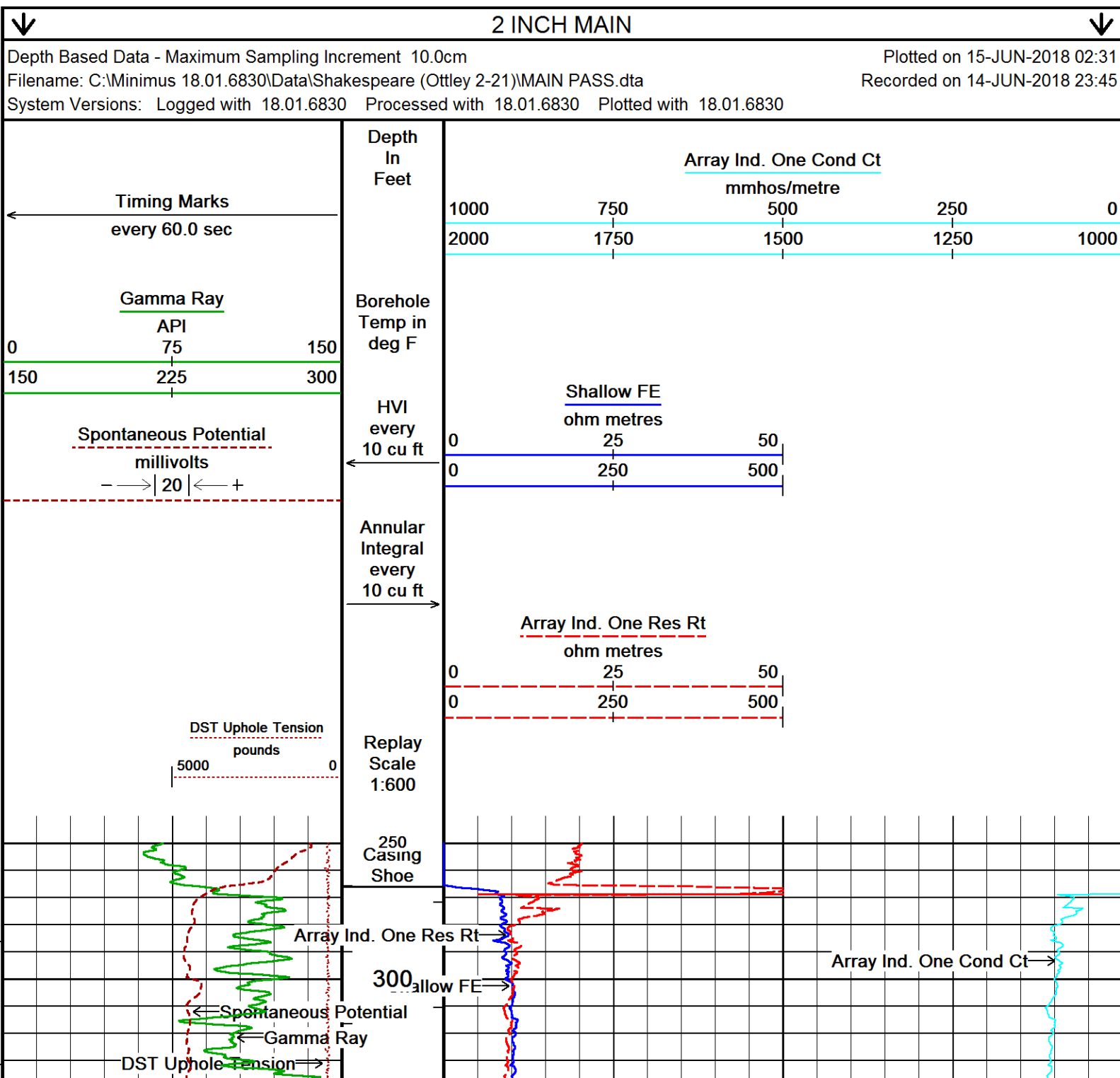
Witnessed by	WES HANSON
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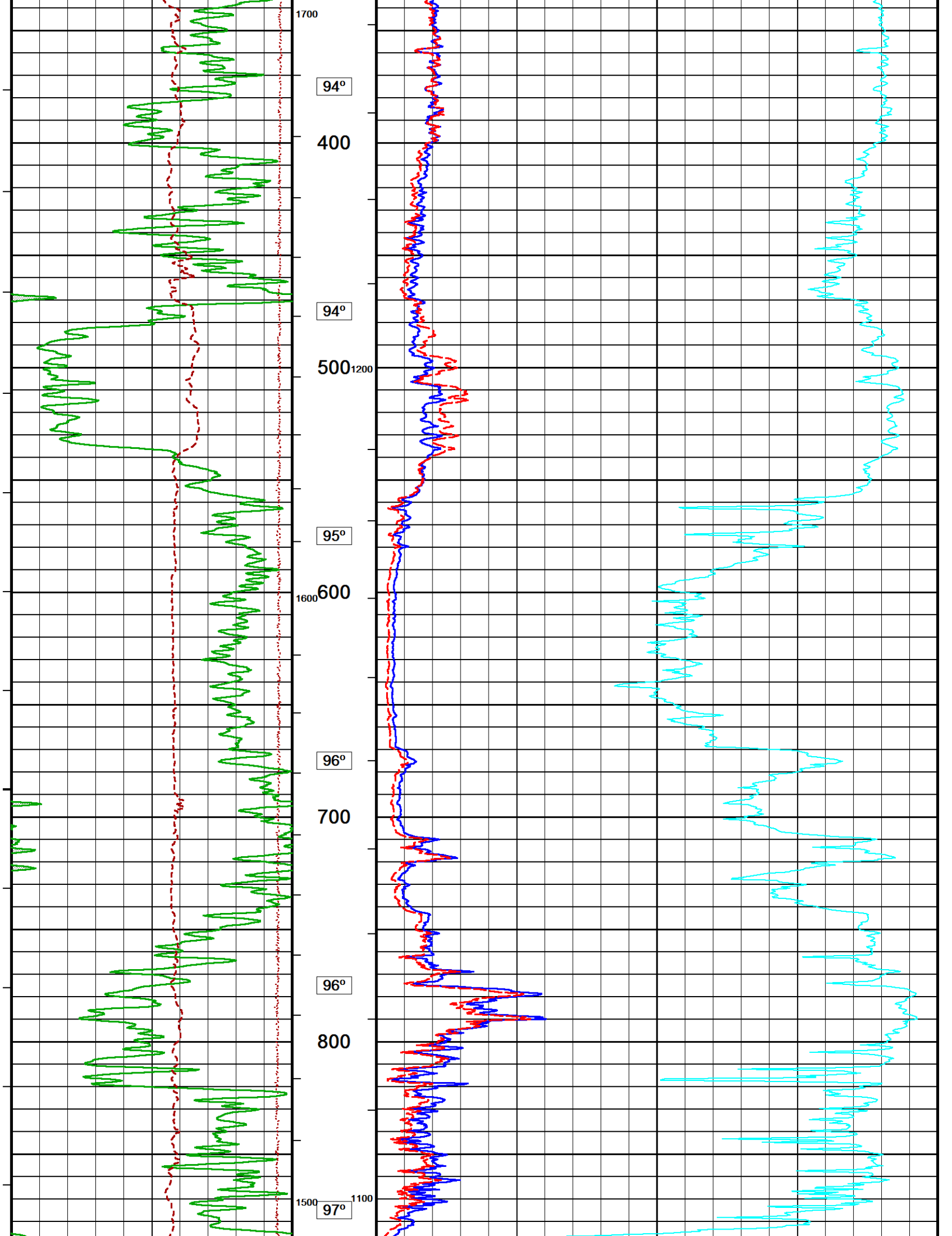
- RUN ONE: MCB, SHA, MCG, MML, MDN, MPD, SKJ, MFE, MSS, MAI RUN IN COMBINATION.
 - HARDWARE: DUAL BOWSPRING USED ON MDN.
0.5 INCH STANDOFF USED ON MFE.
0.5 INCH STANDOFF USED ON MAI.
- 2.71 G/CC LIMESTONE DENSITY MATRIX USED TO CALCULATE POROSITY.
- BOREHOLE RUGOSITY, TIGHT PULLS, AND WASHOUTS WILL AFFECT DATA QUALITY.
- ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.
- TOTAL HOLE VOLUME FROM TD TO SURFACE CASING: 1730 CU.FT.
- ANNULAR HOLE VOLUME WITH 4.5 INCH PRODUCTION CASING FROM TD TO SURFACE CASING: 1262 CU.FT.
- RIG: DUKE #1.

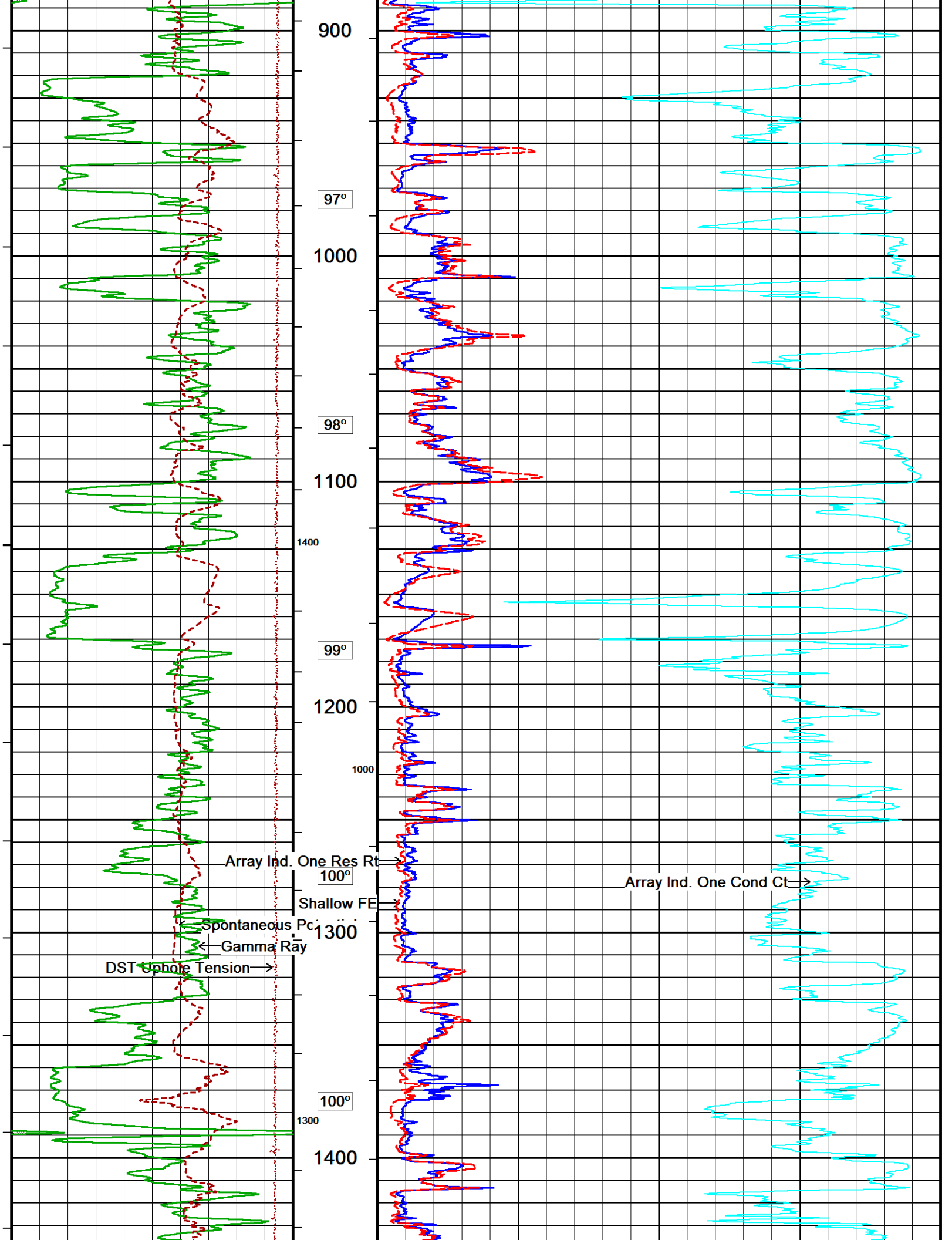
- ENGINEER: J. HICKS.

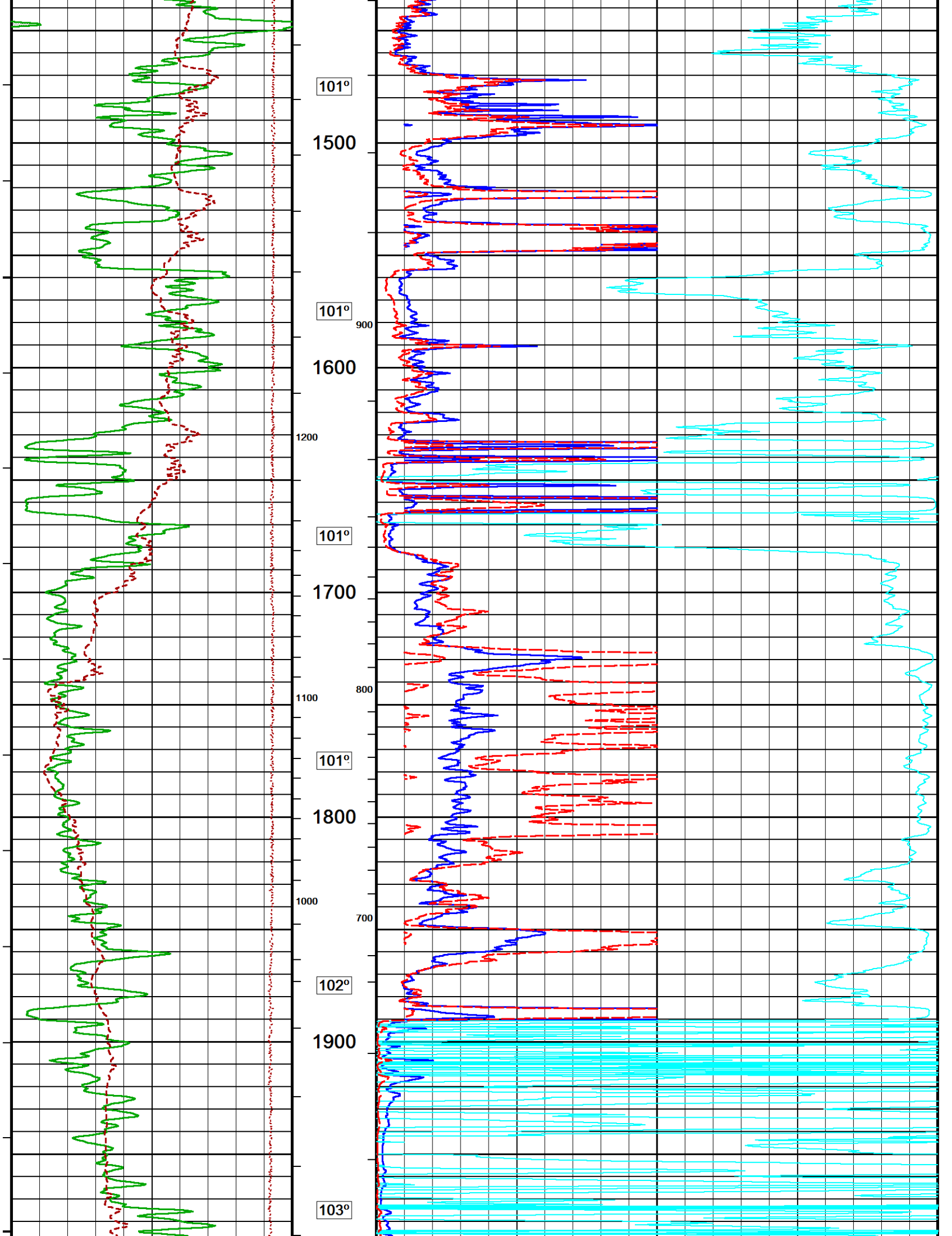
- OPERATOR: B. TOVAR, B. COPELAND.

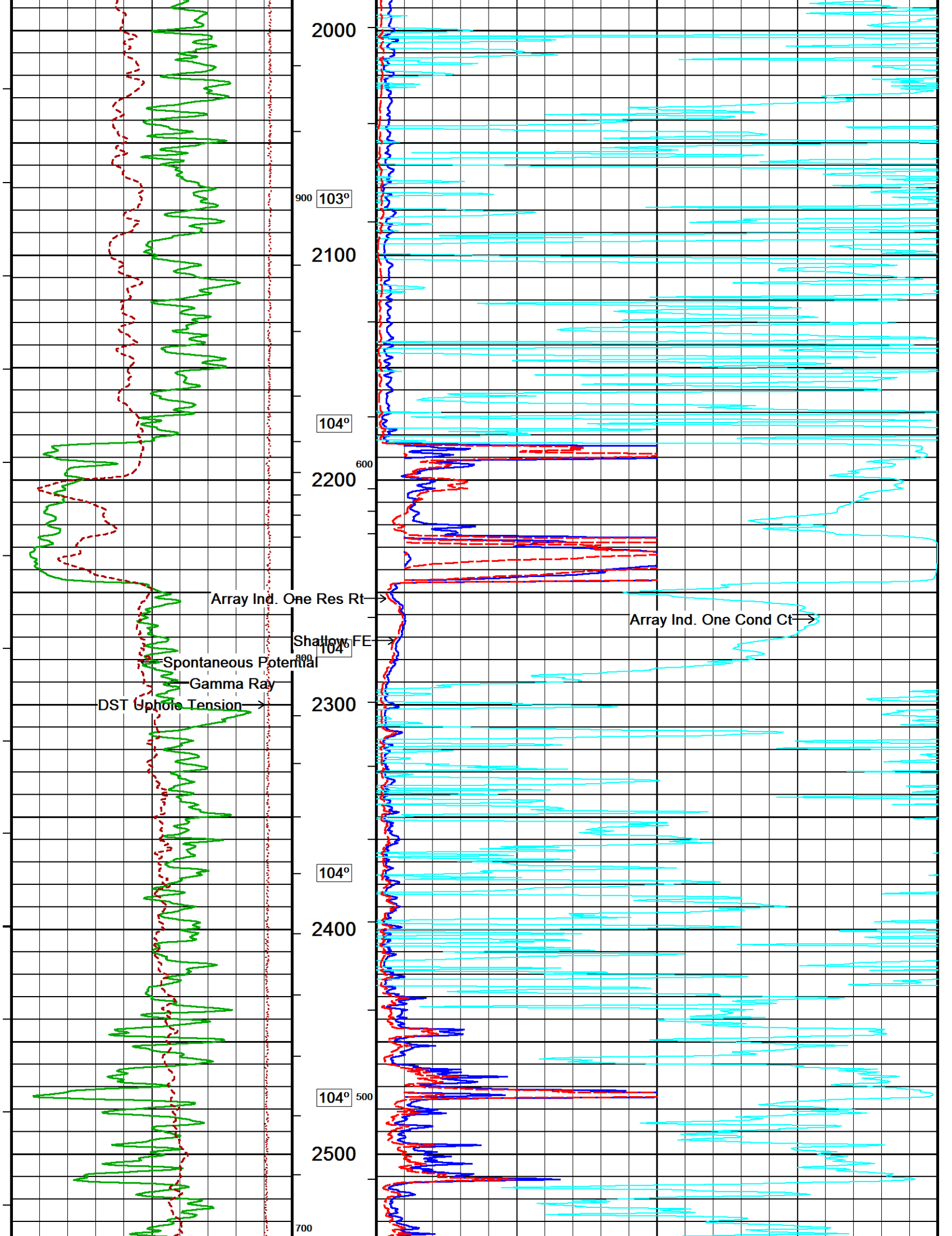
In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will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

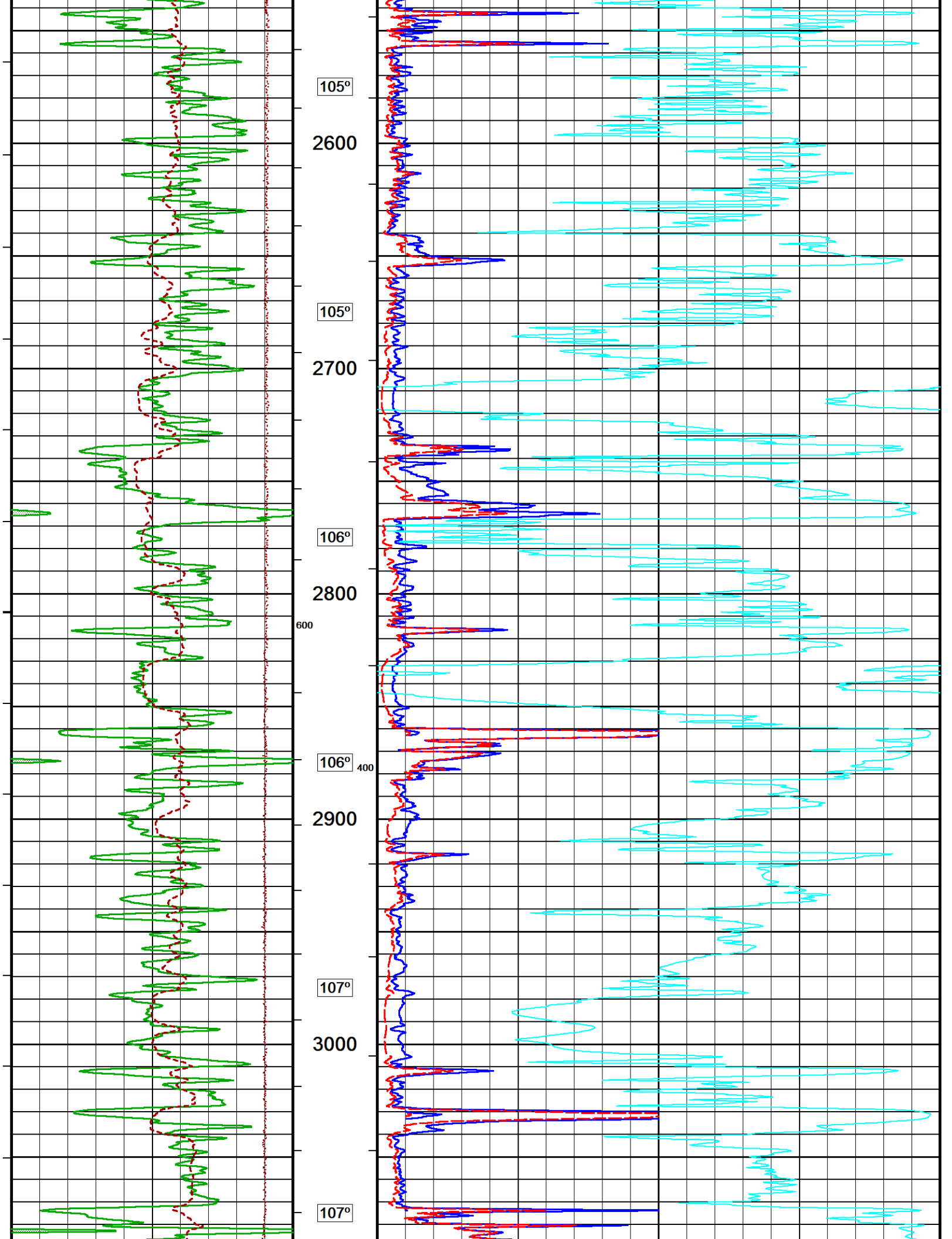


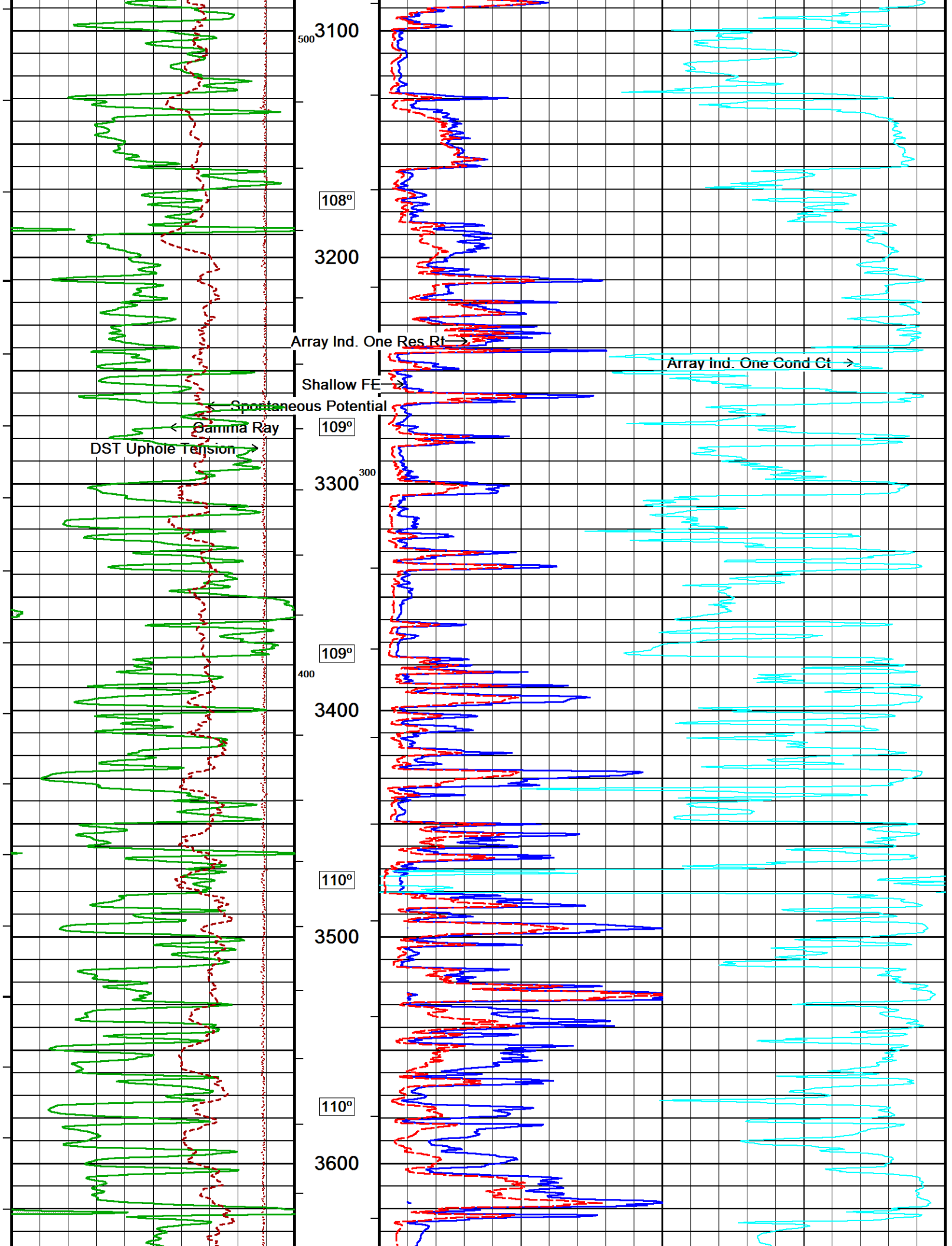


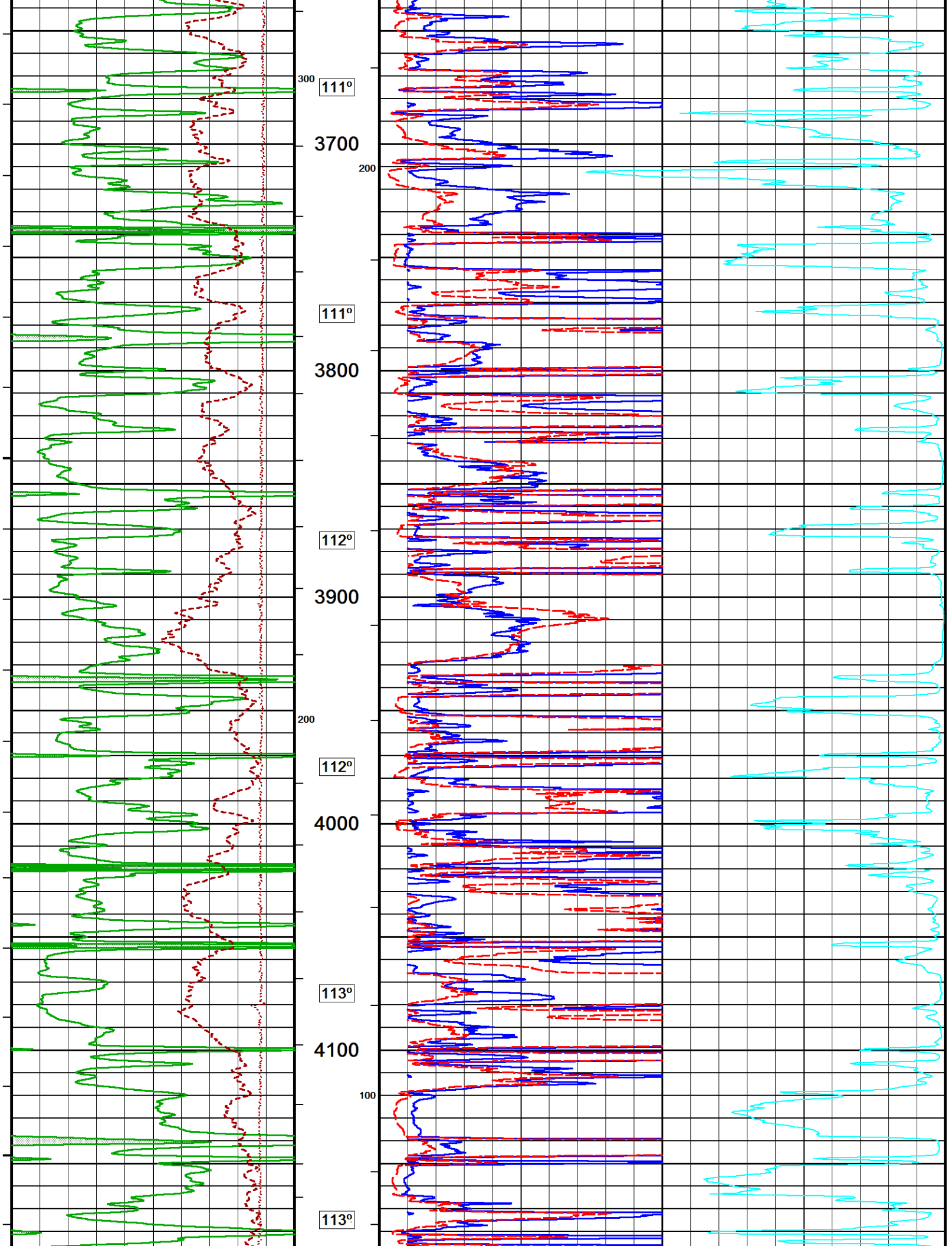


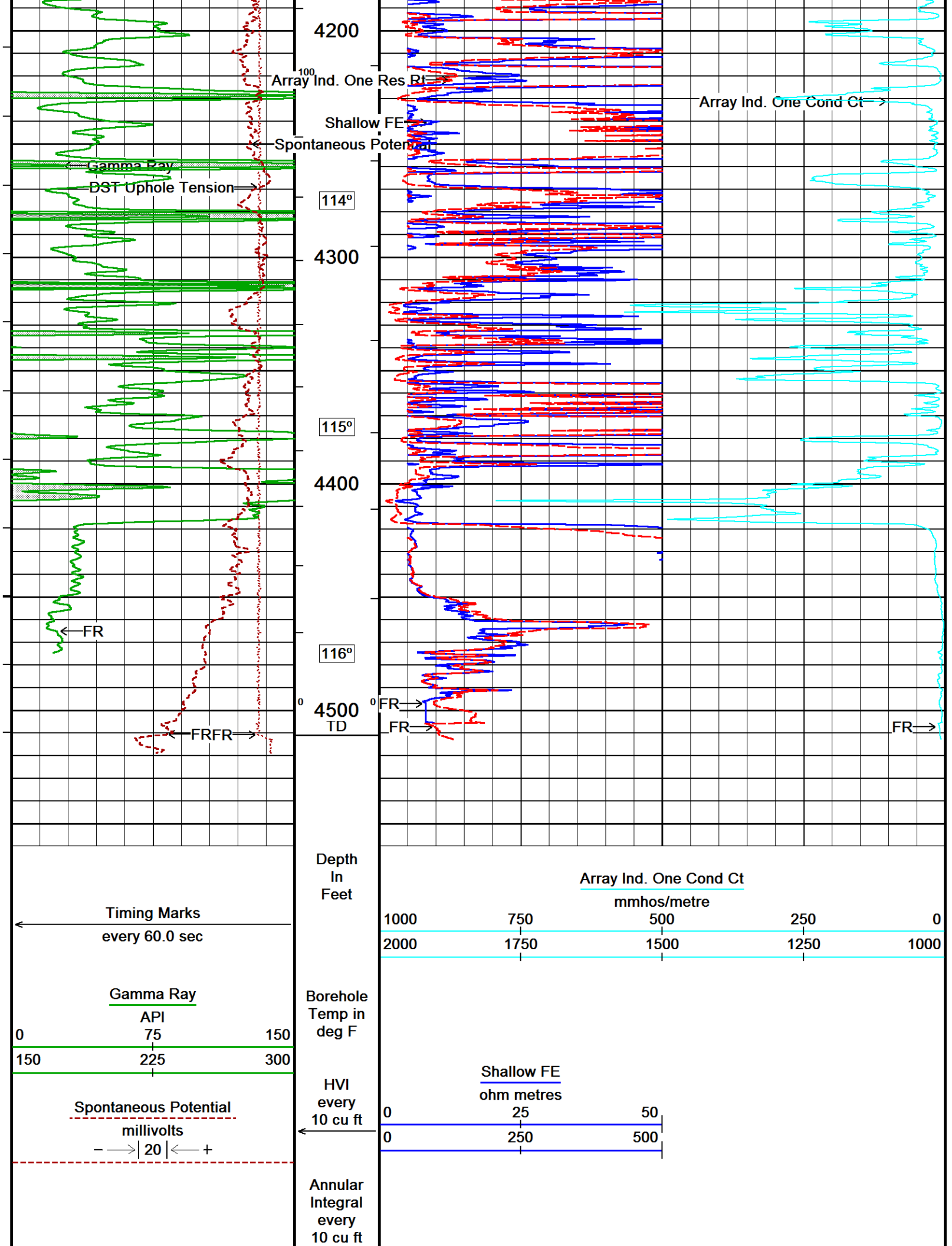


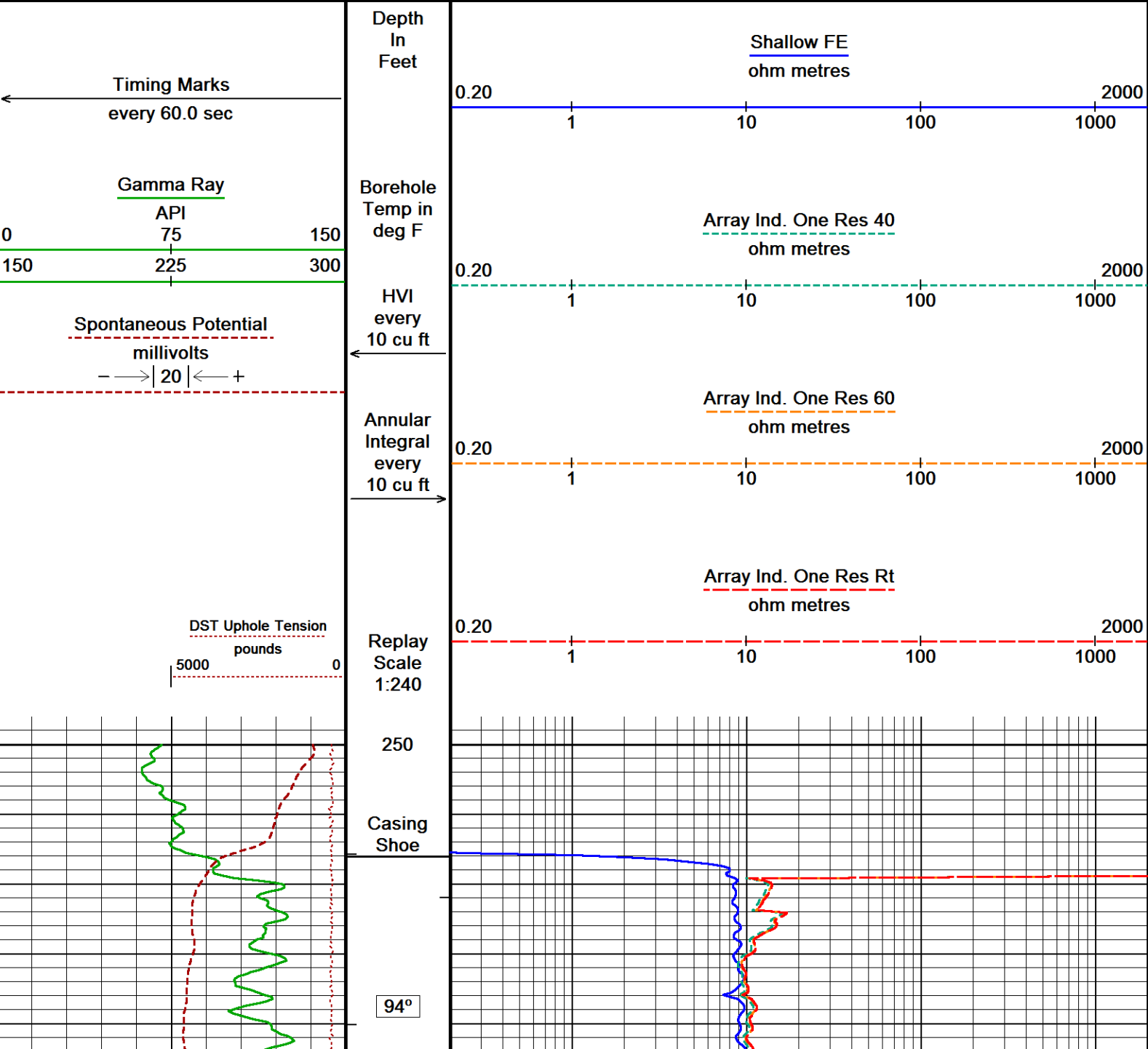
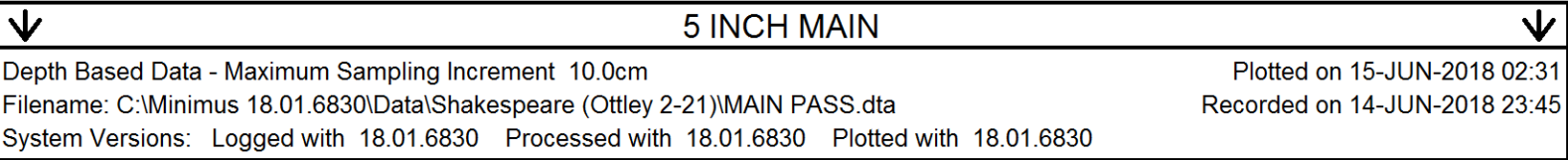
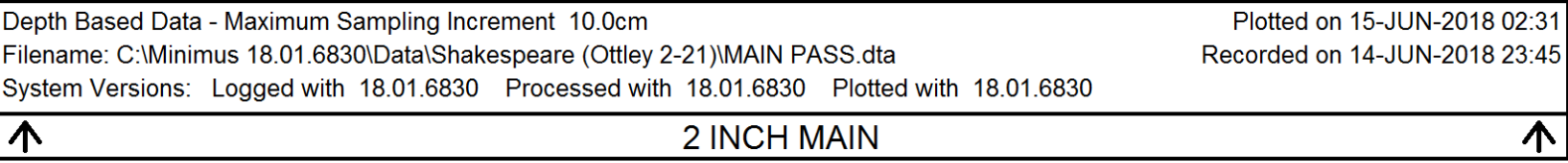
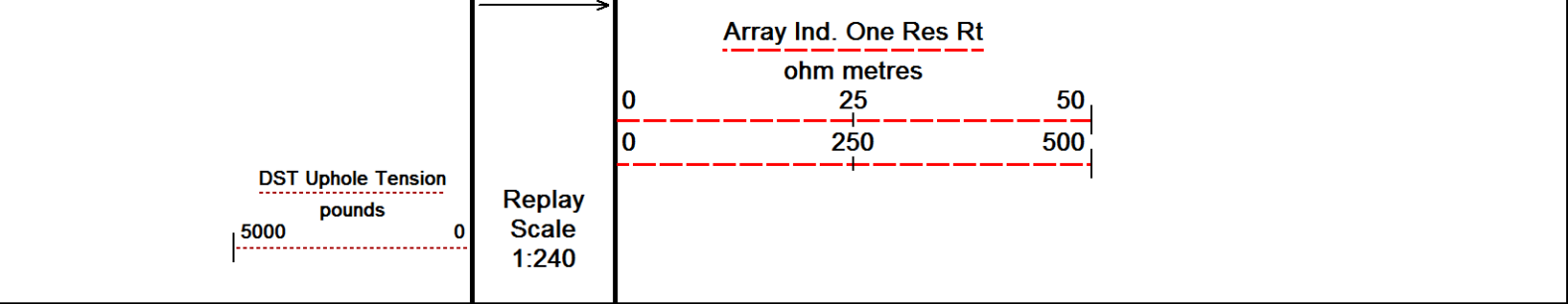


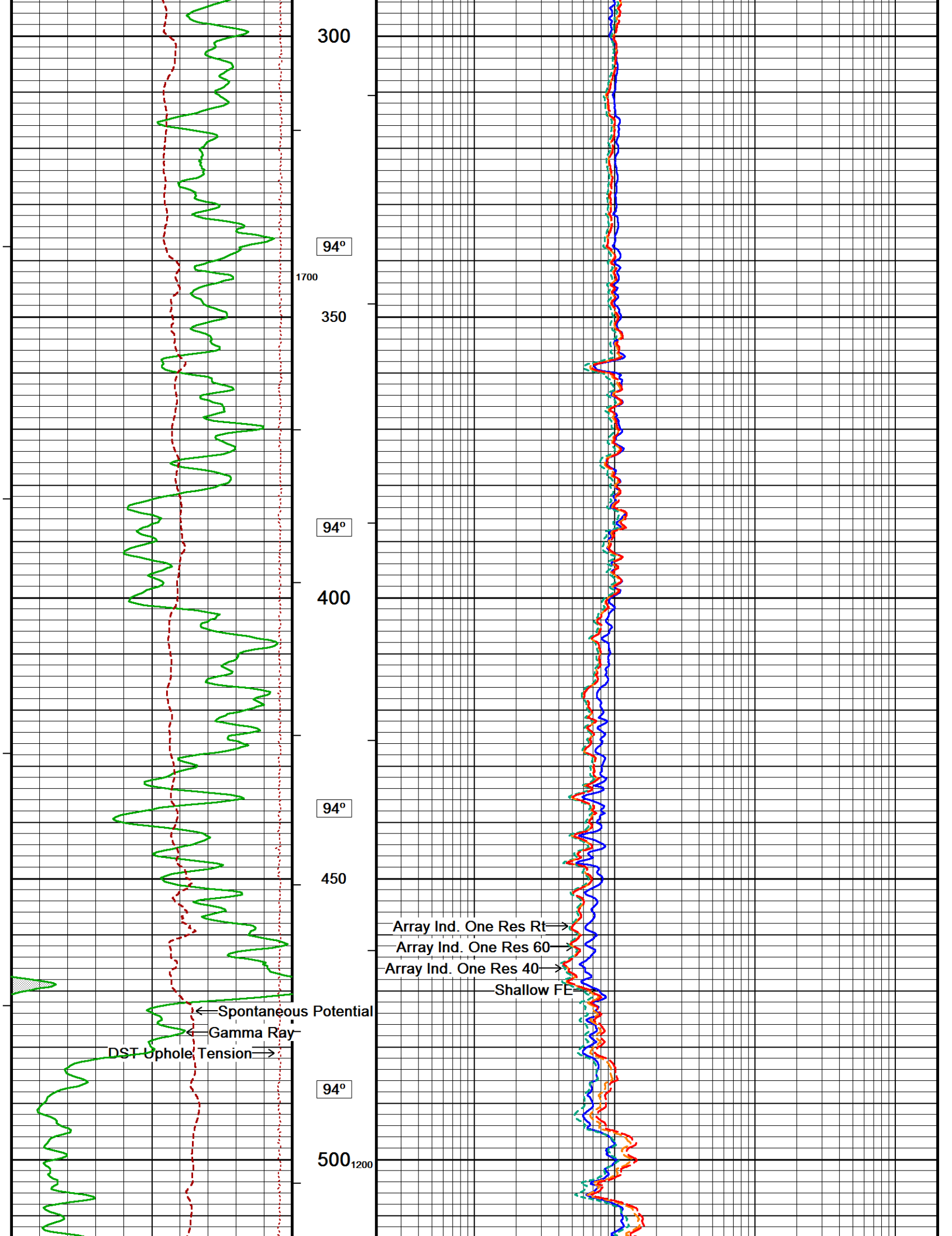


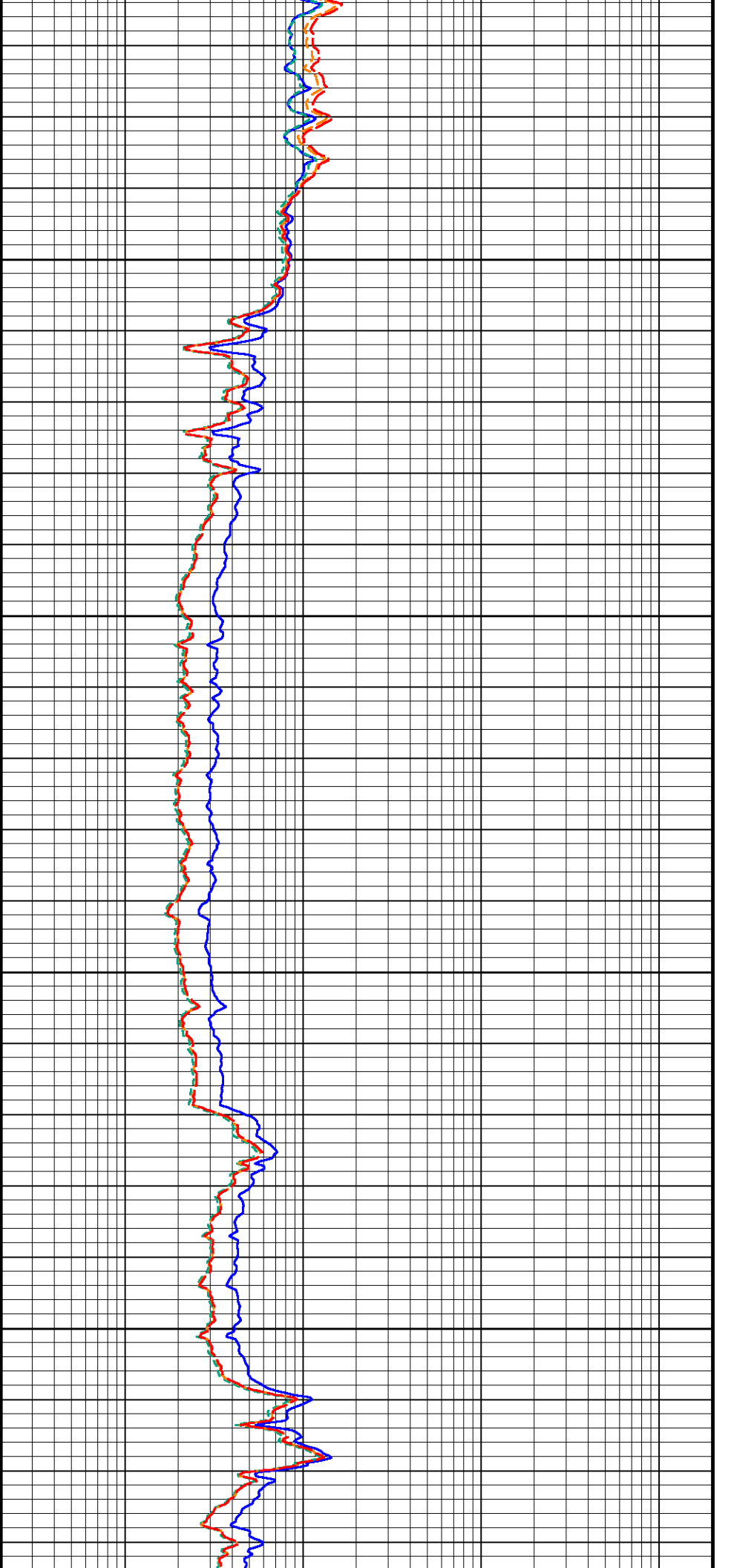
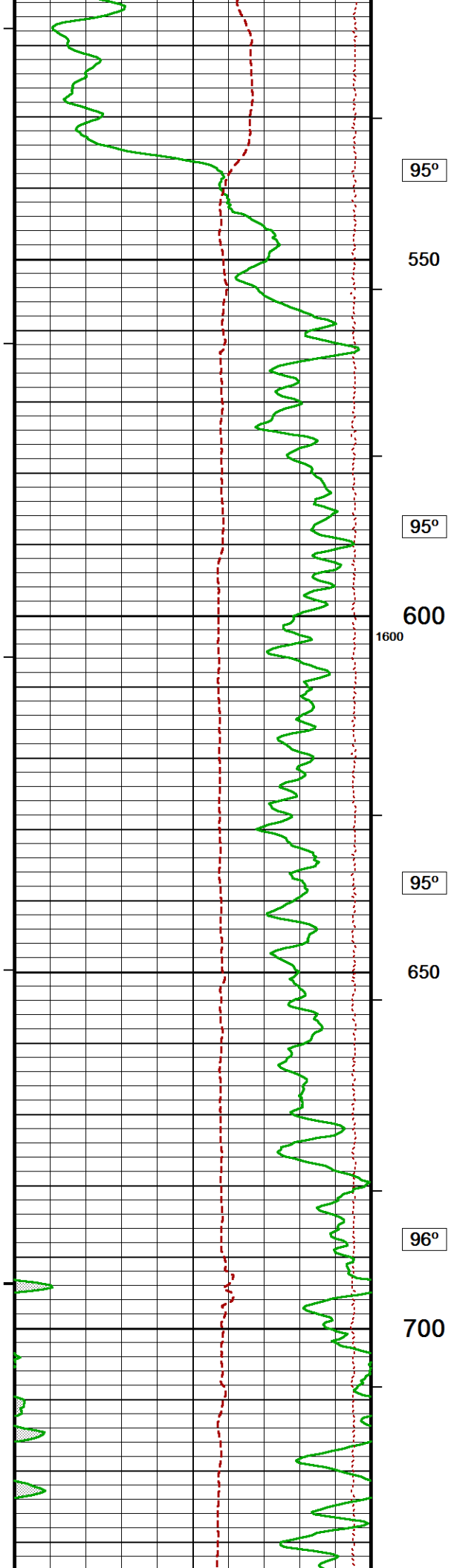


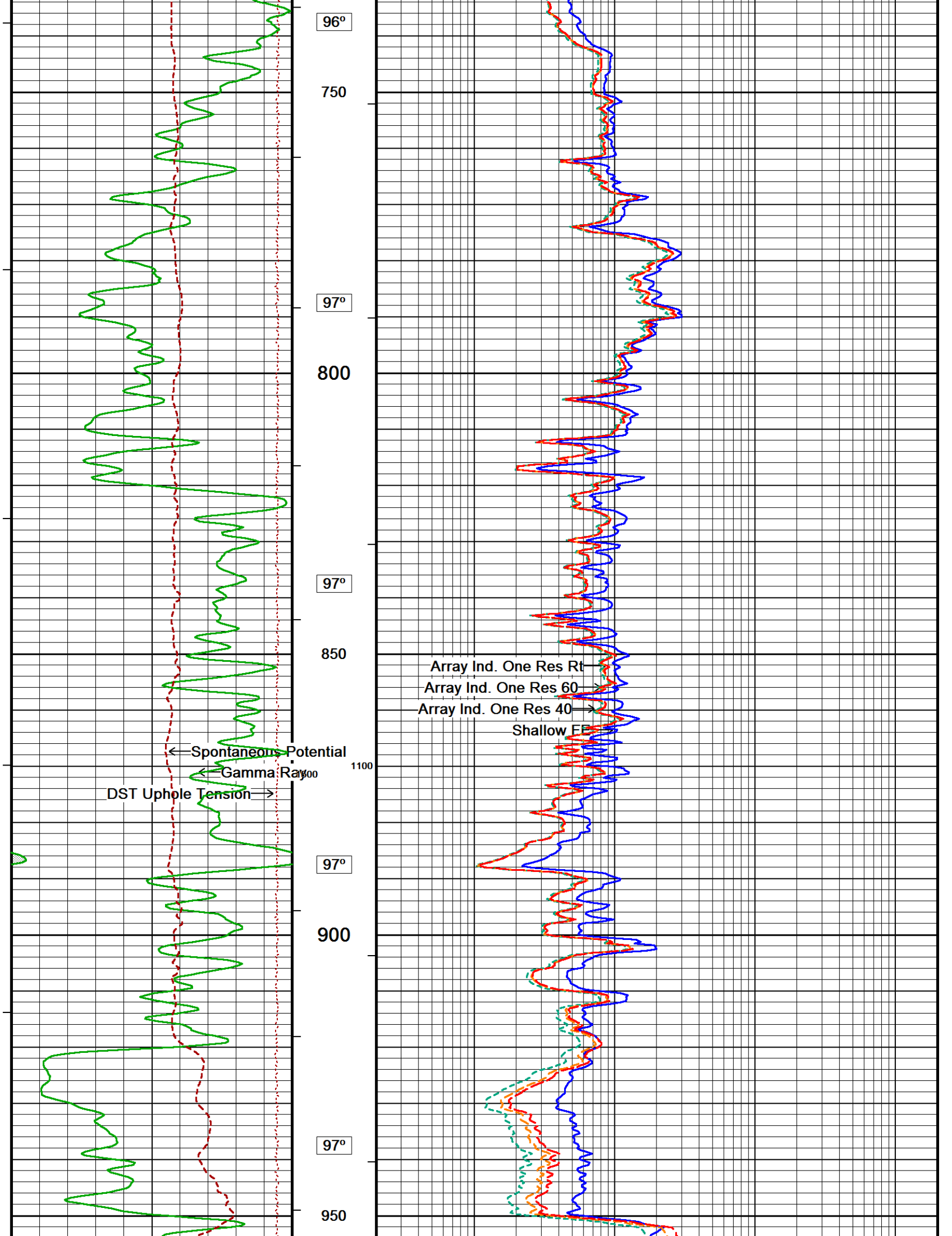


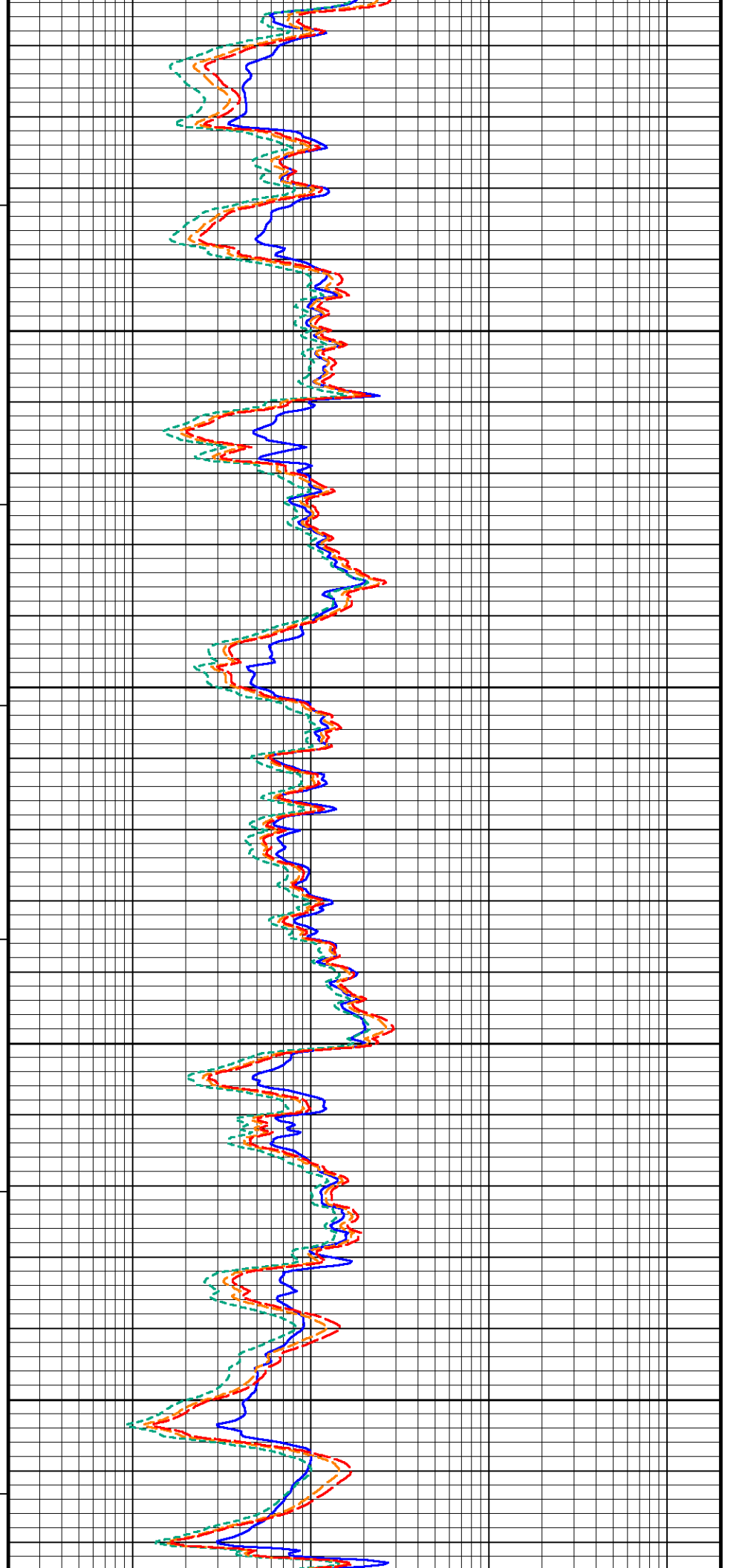
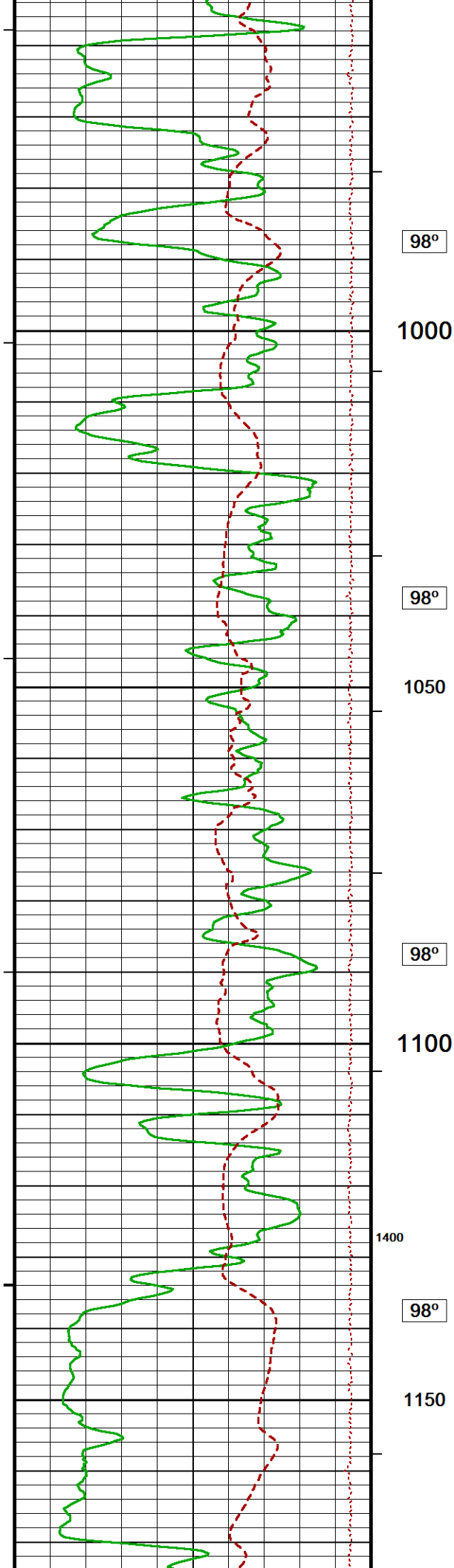


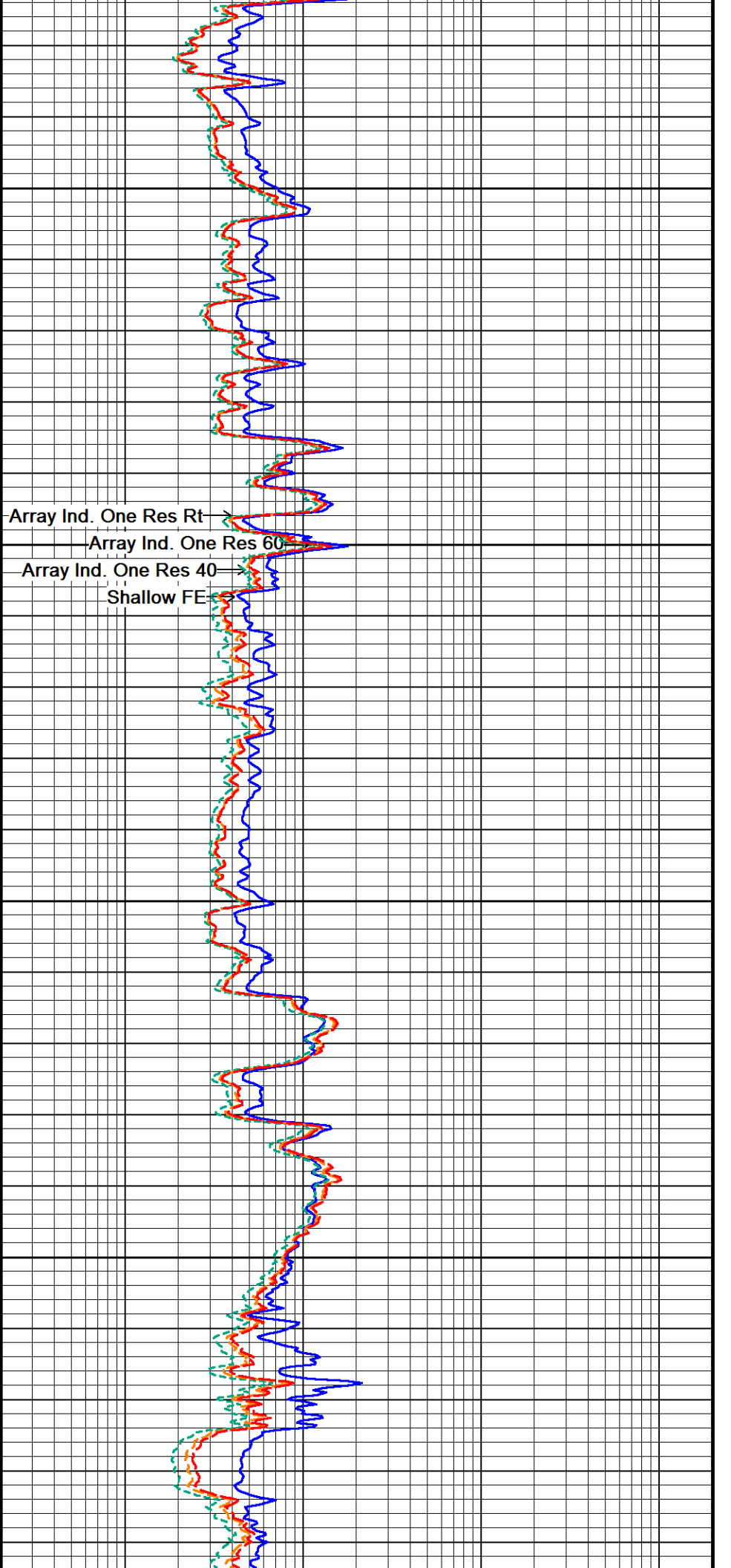
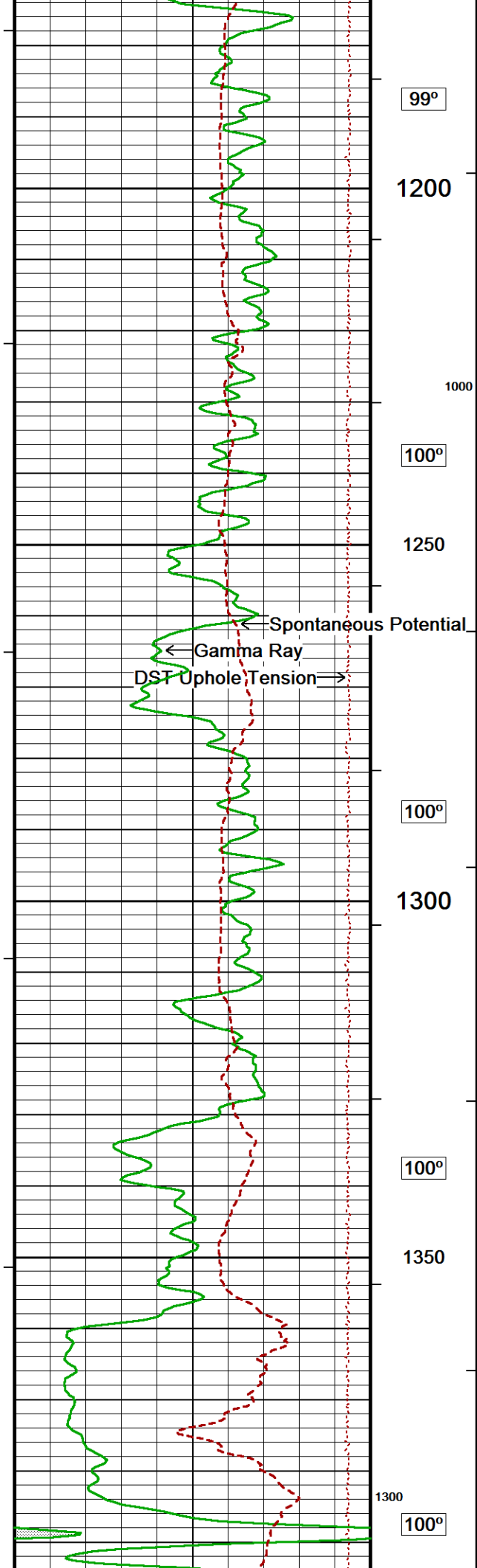


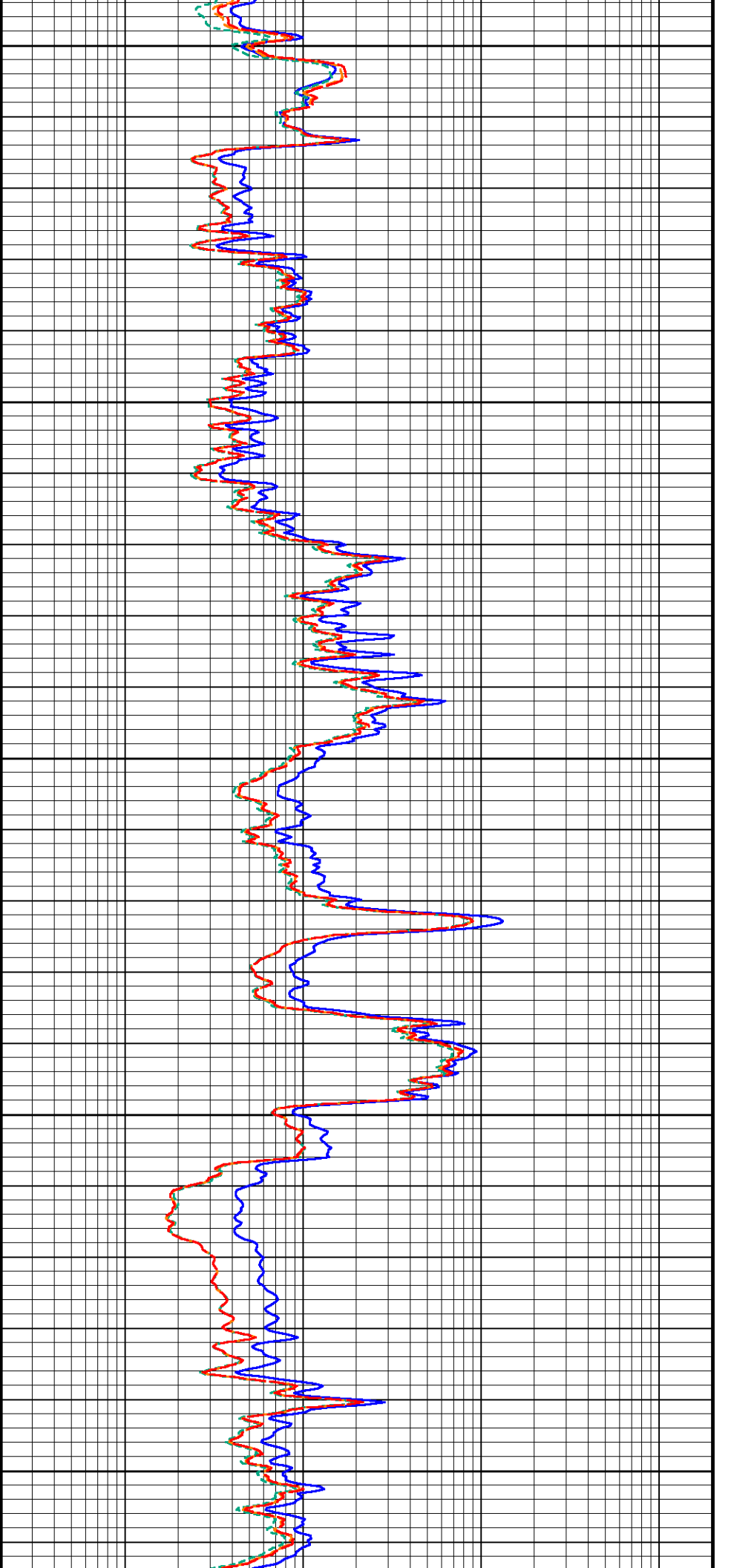
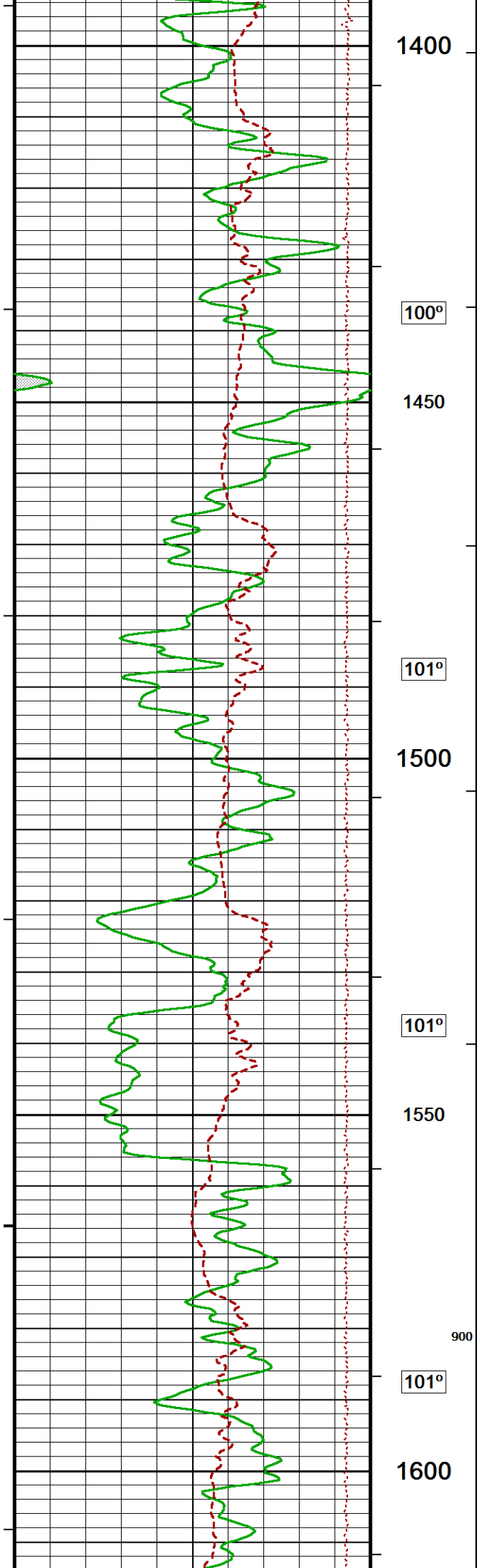


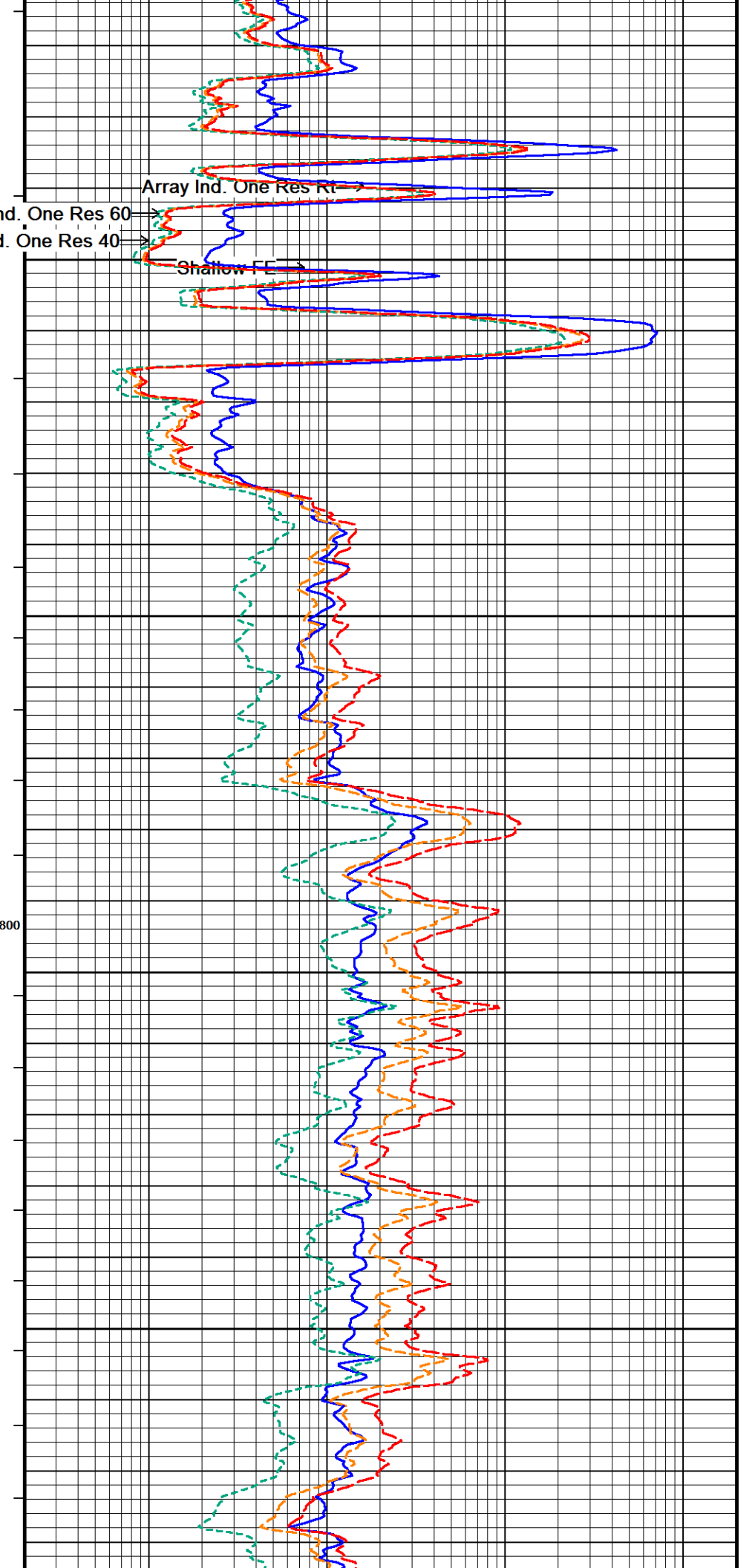
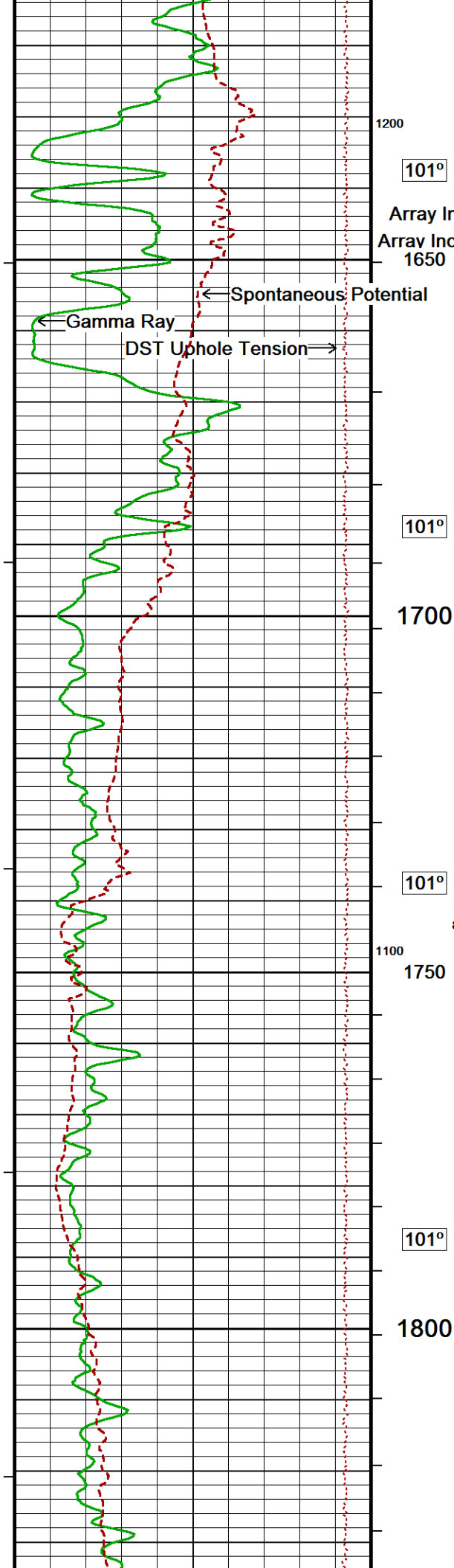


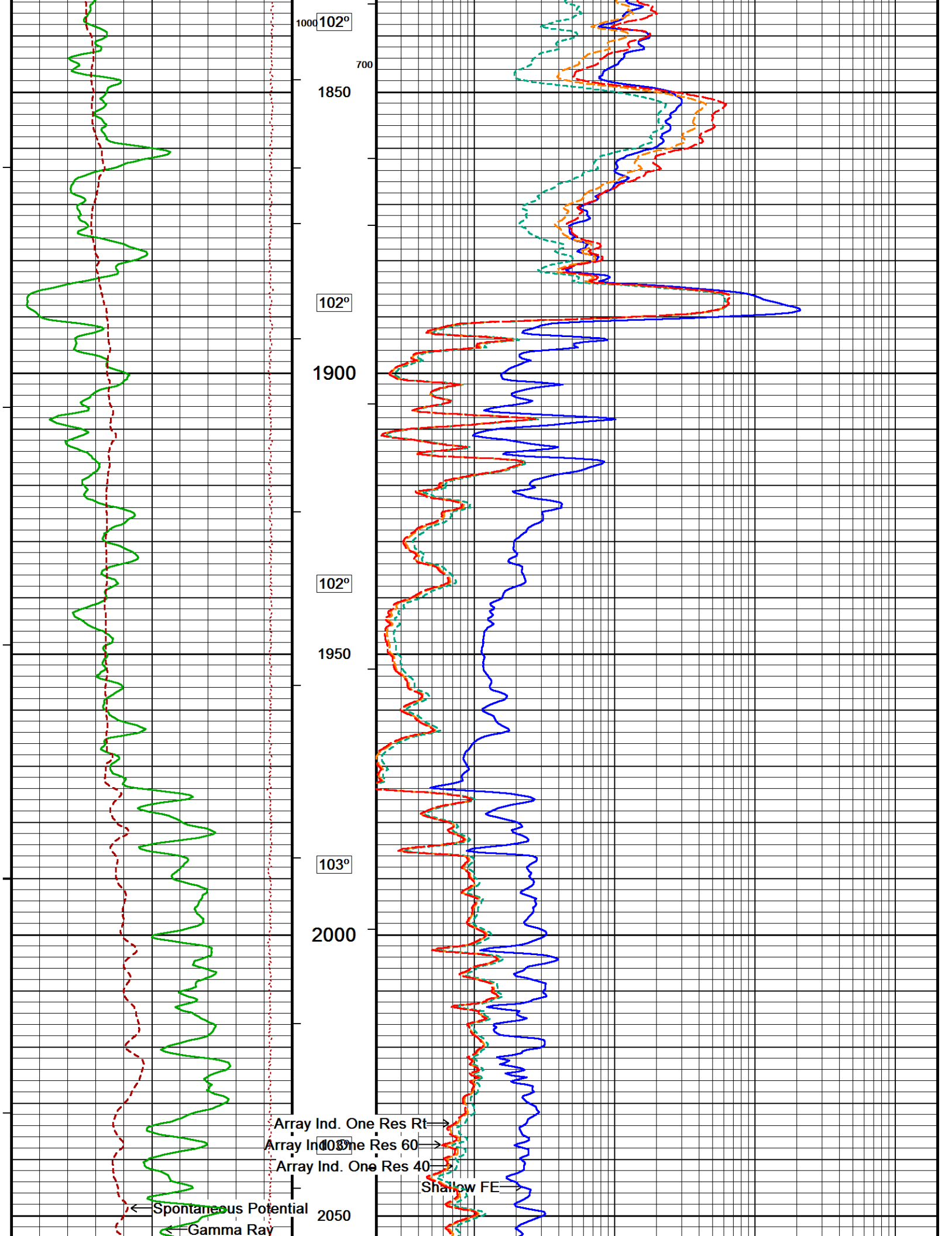


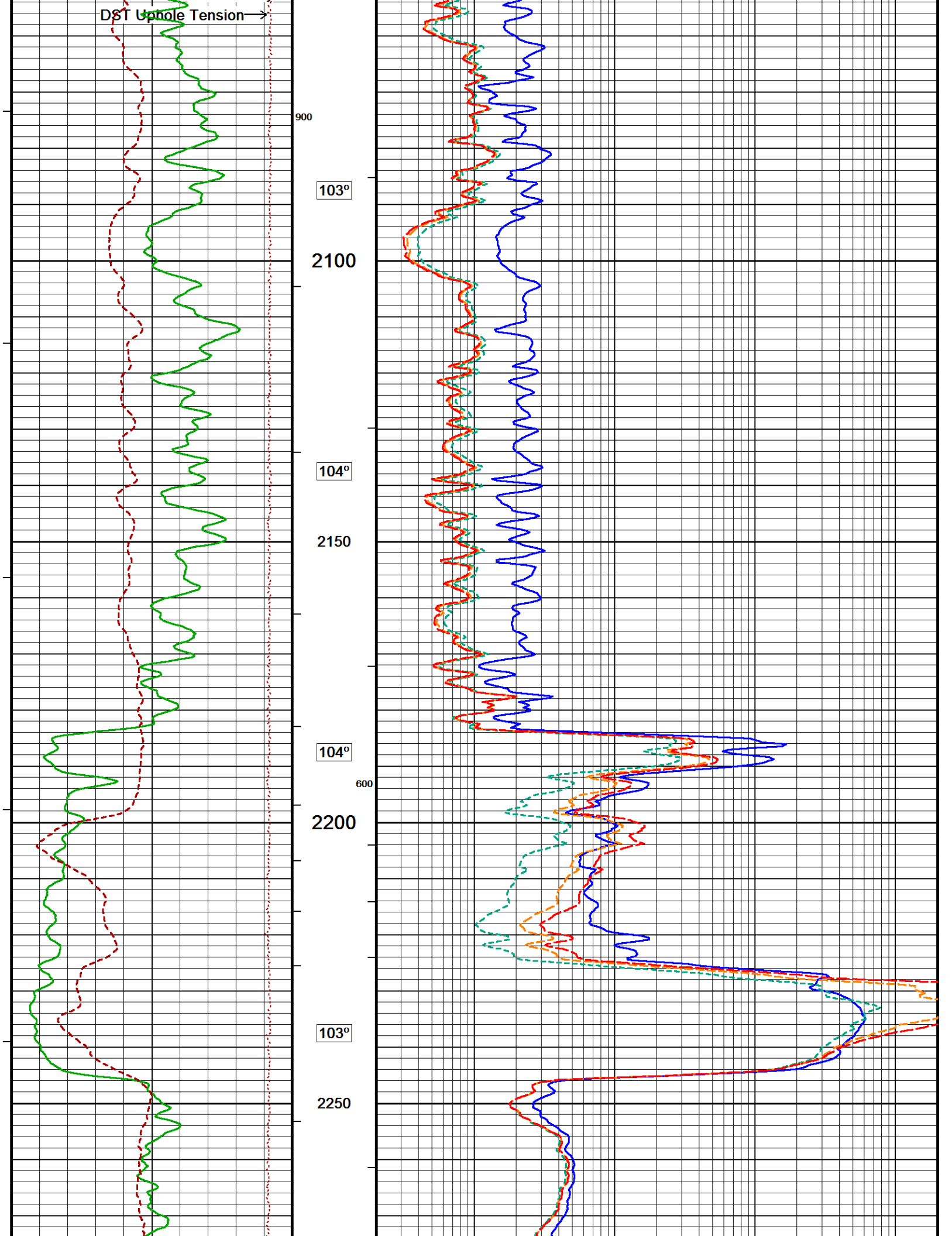


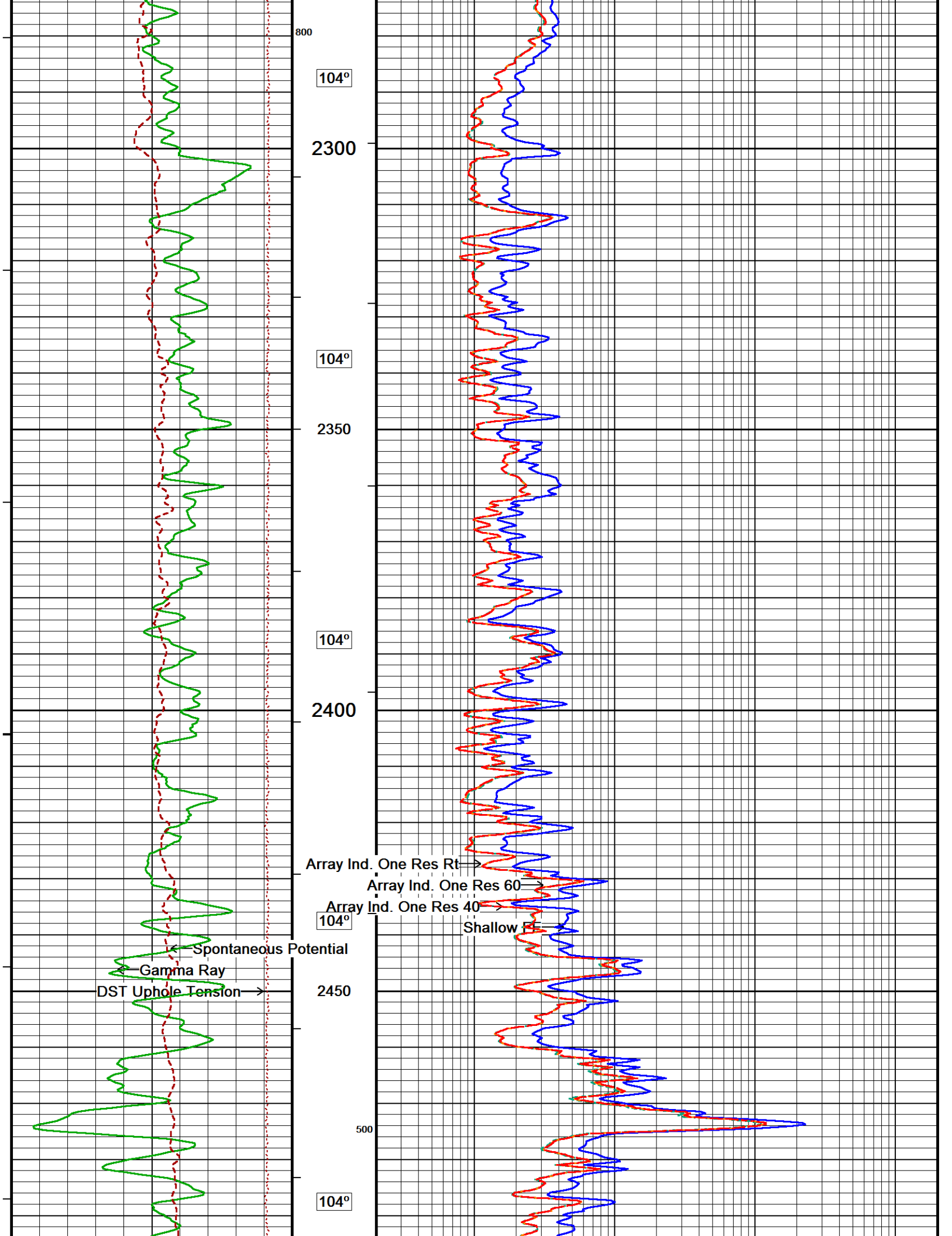


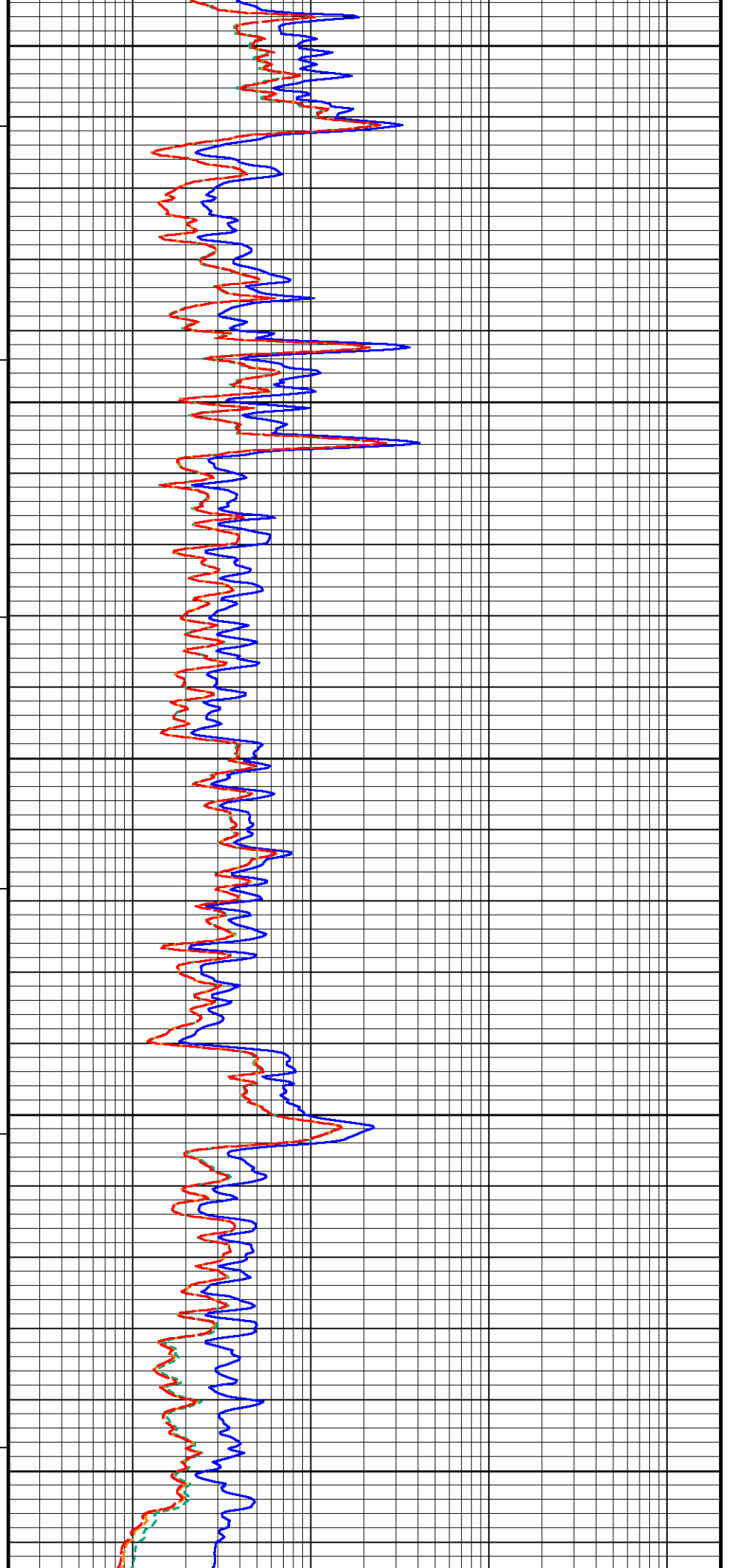
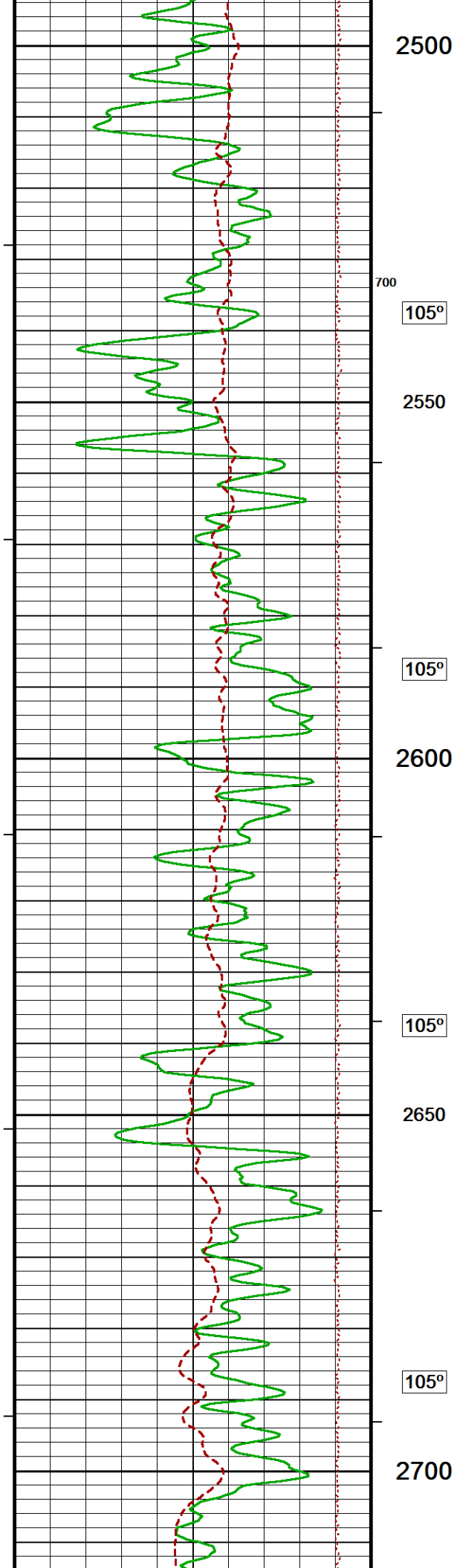


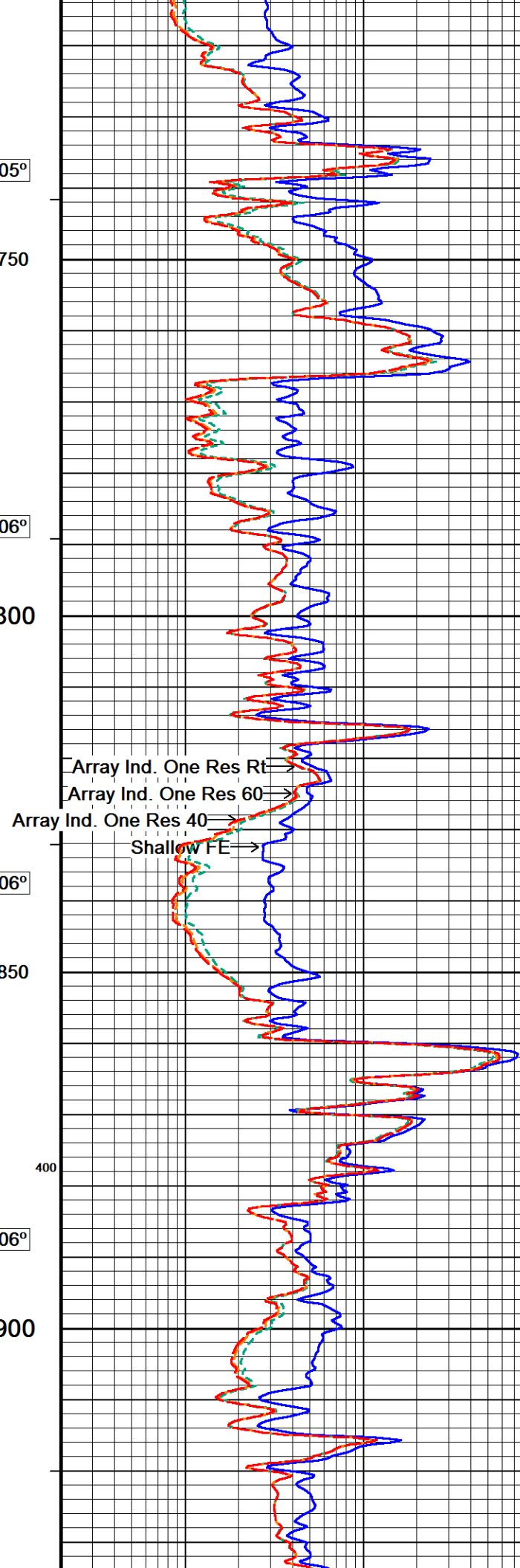
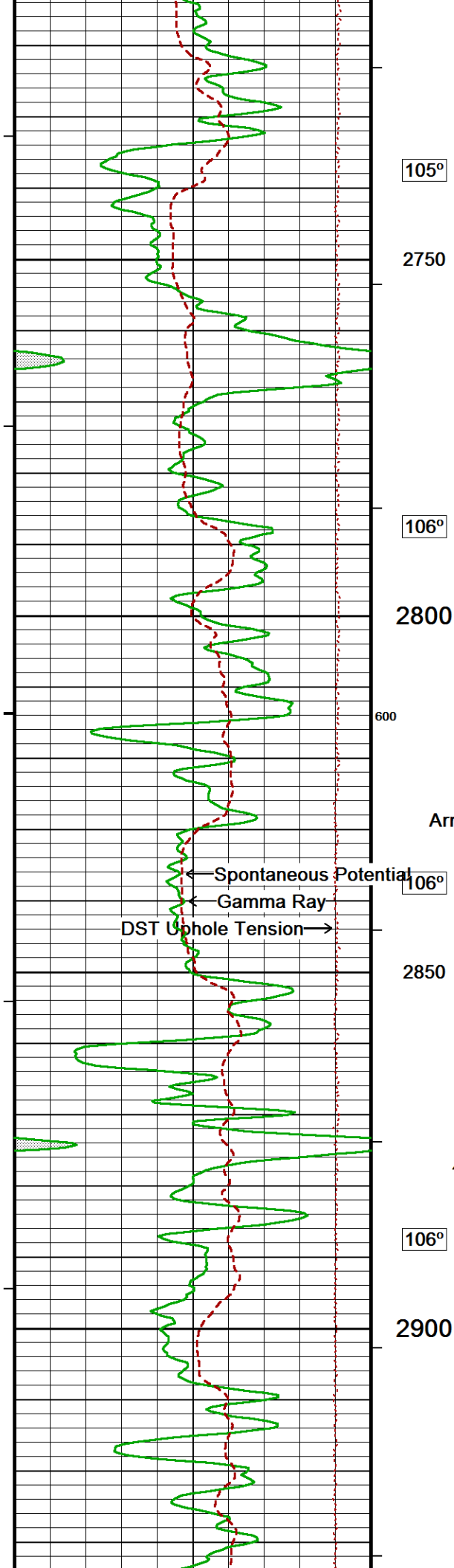


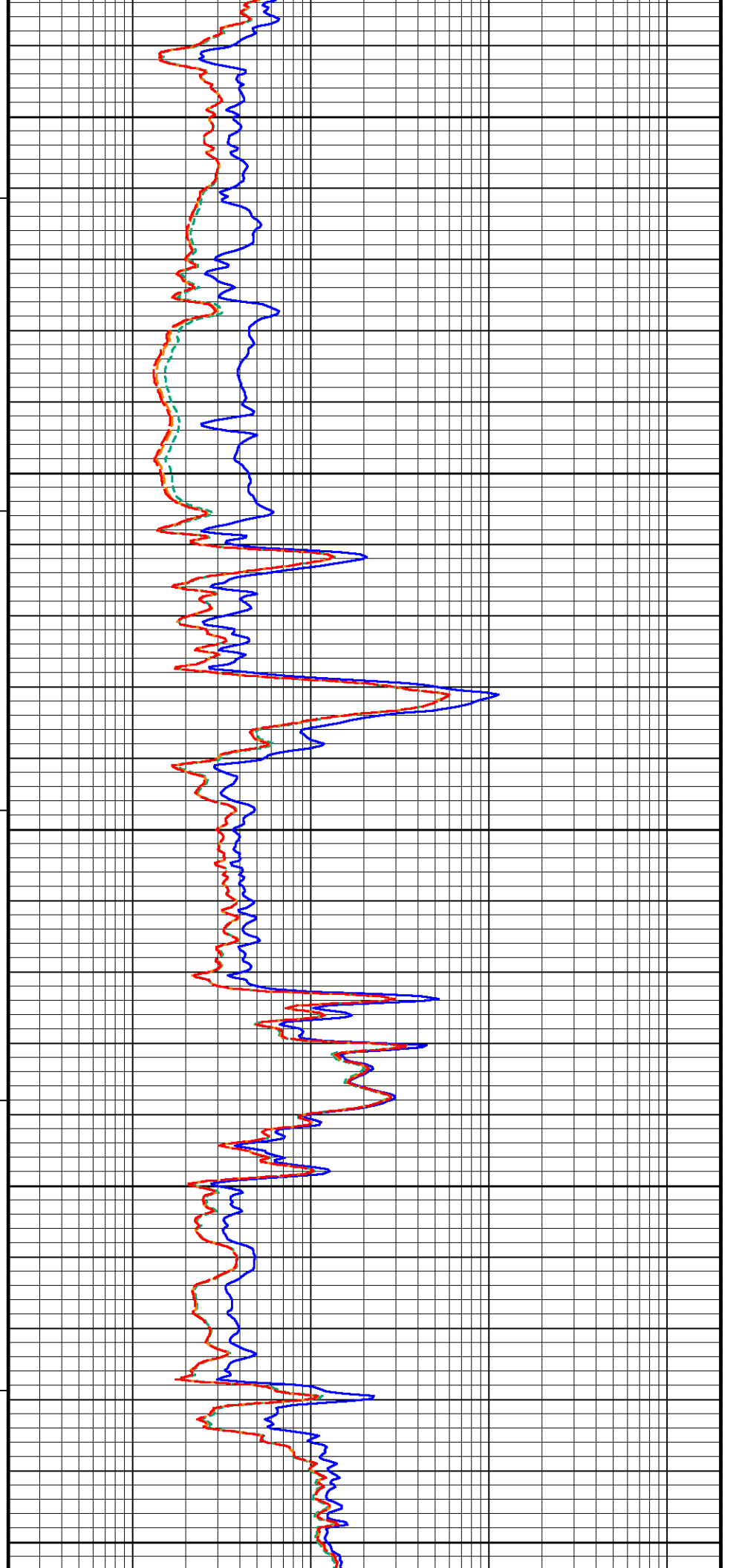
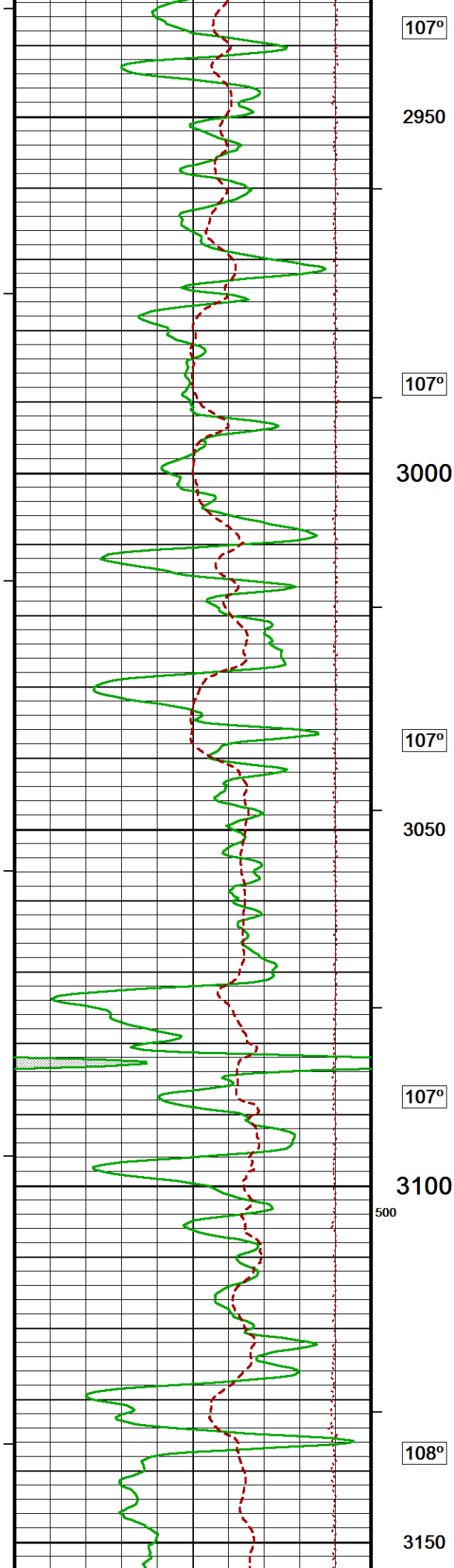


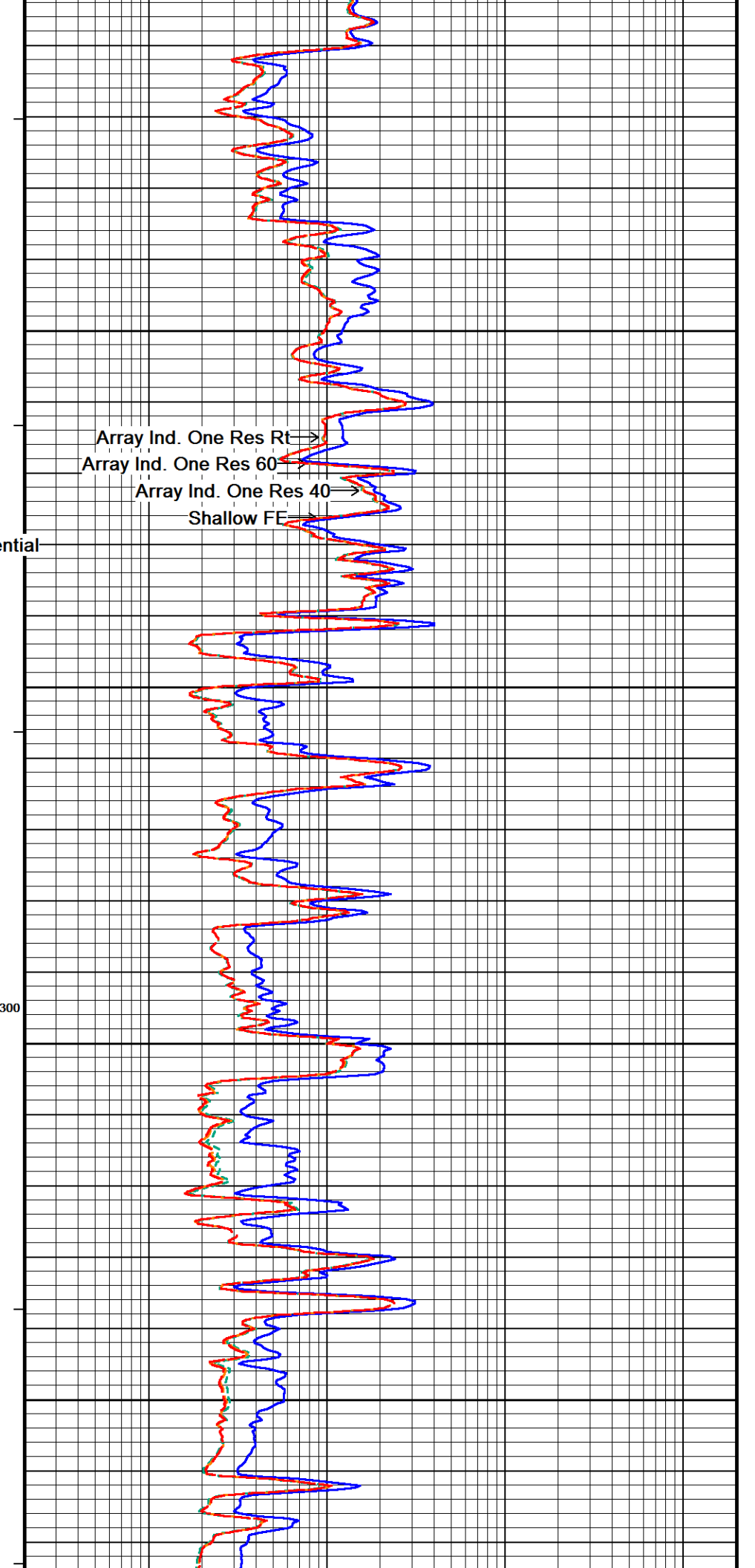
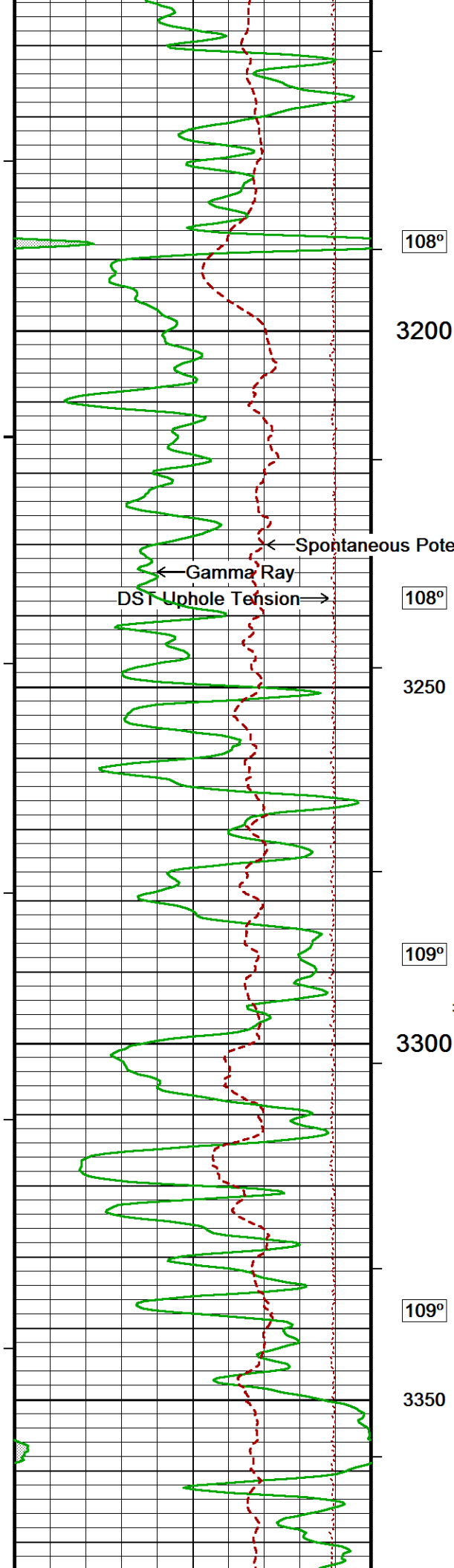


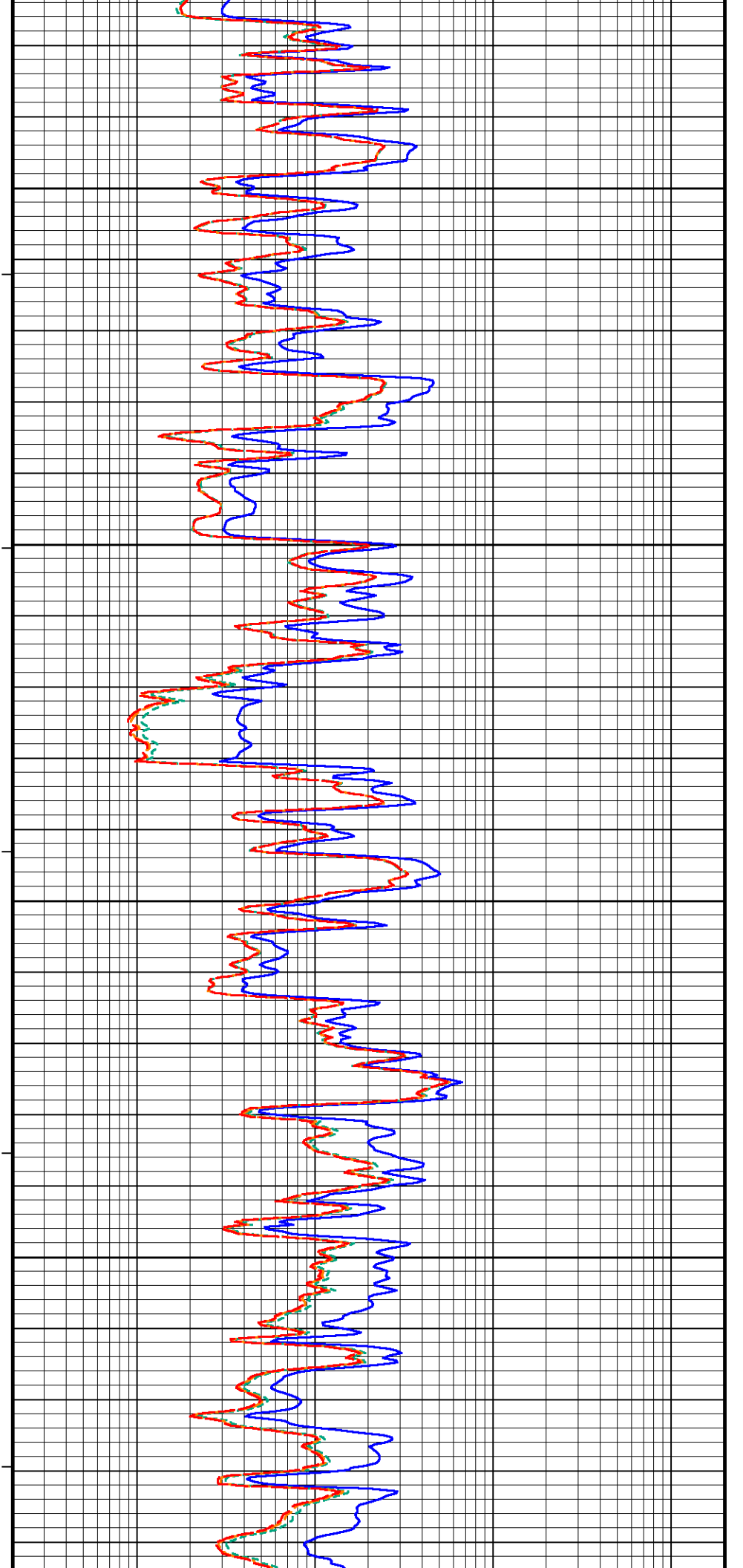
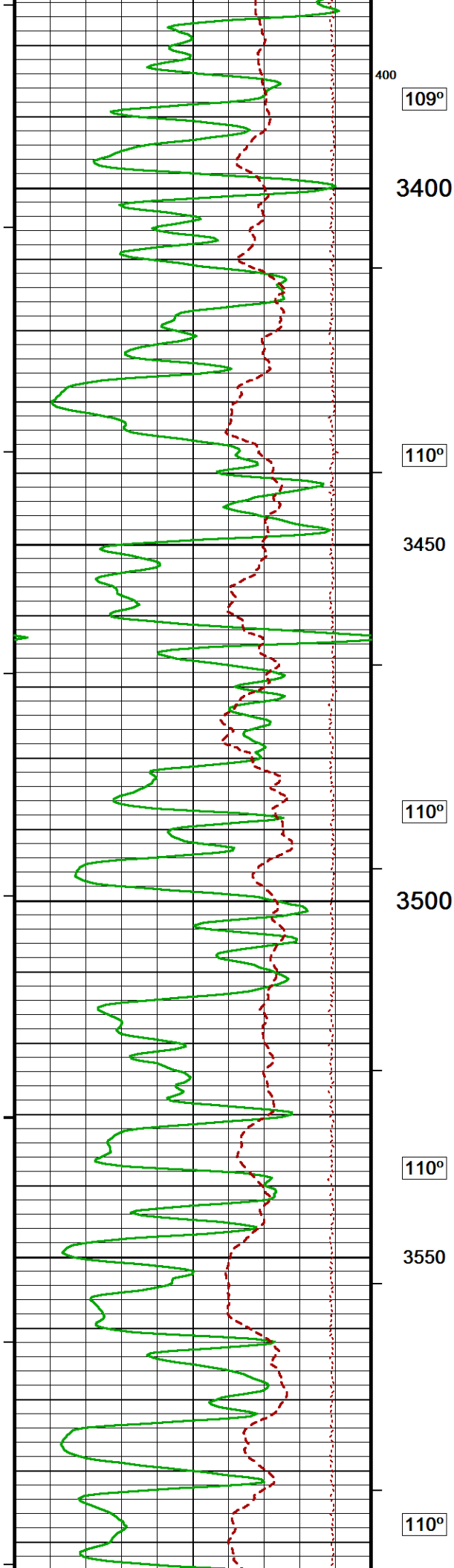


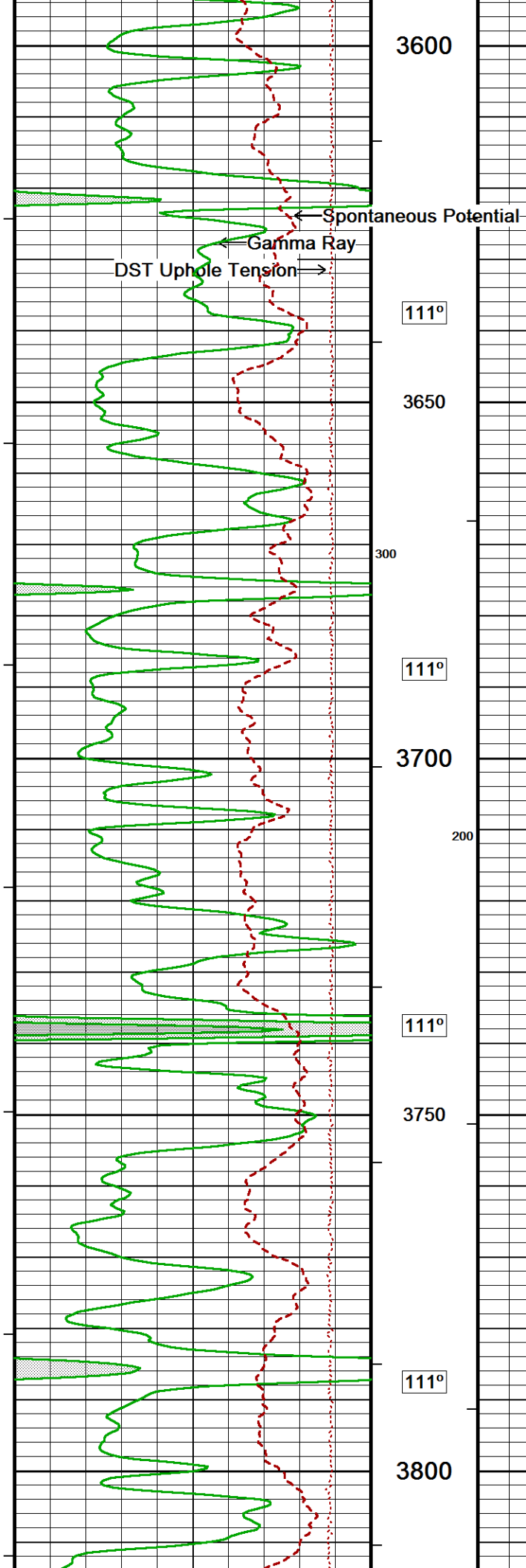












3600

← Spontaneous Potential

← Gamma Ray

DST Uphole Tension →

111°

3650

300

111°

3700

200

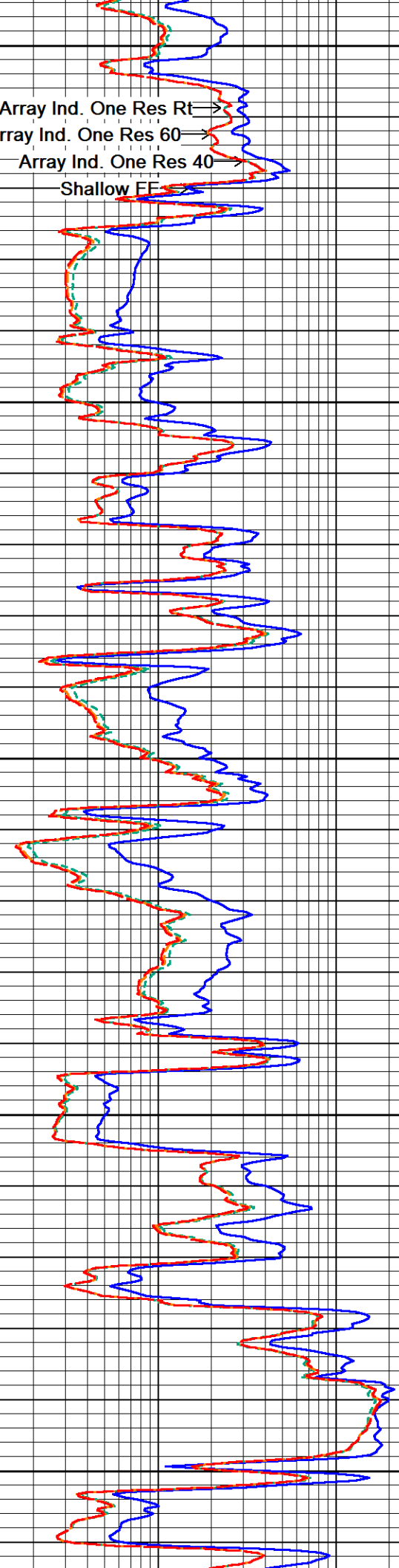
111°

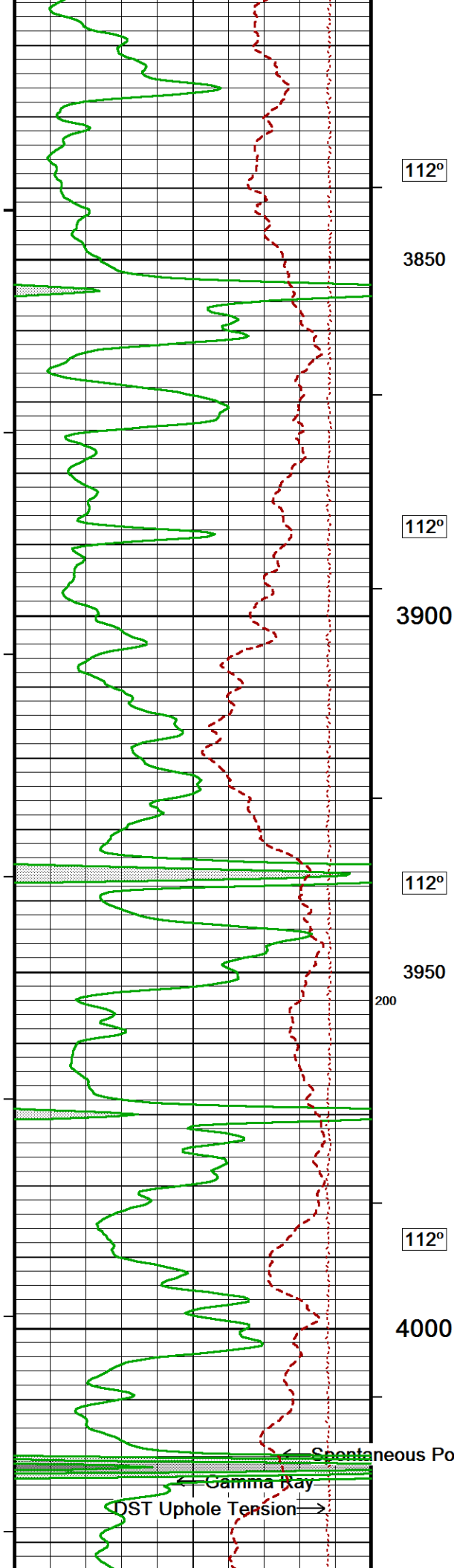
3750

111°

3800

Array Ind. One Res Rt →
Array Ind. One Res 60 →
Array Ind. One Res 40 →
Shallow FF →





112°

3850

112°

3900

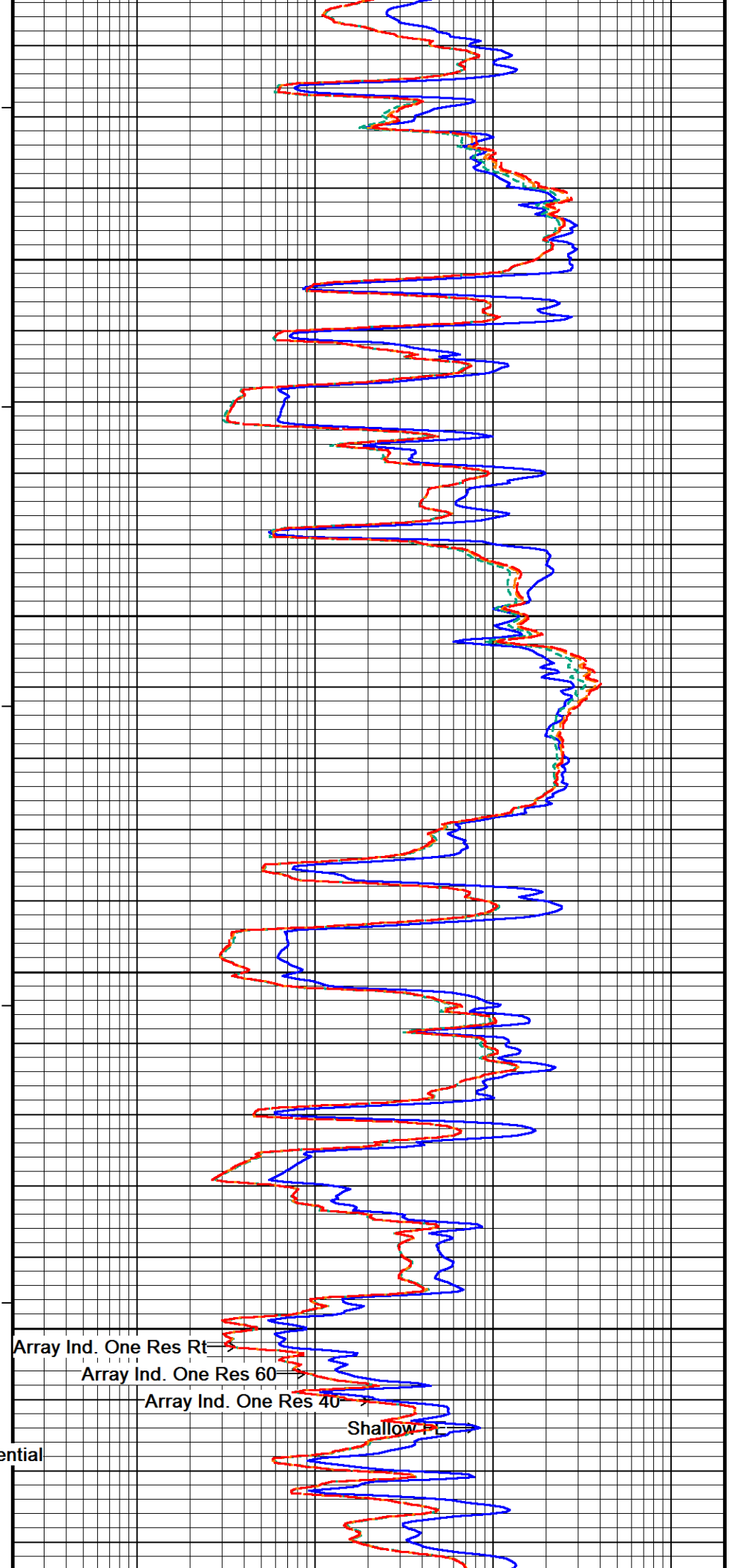
112°

3950

200

112°

4000

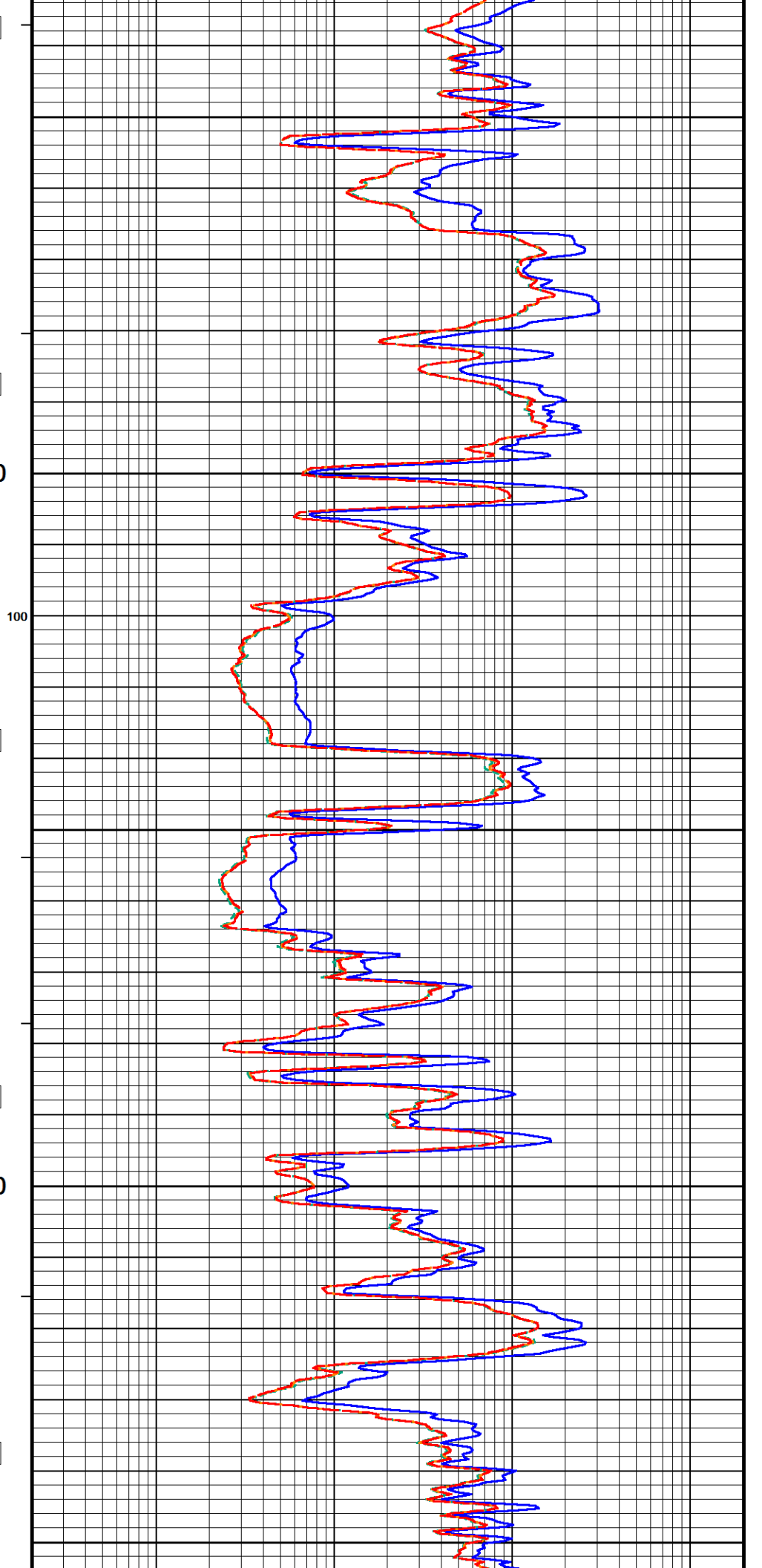
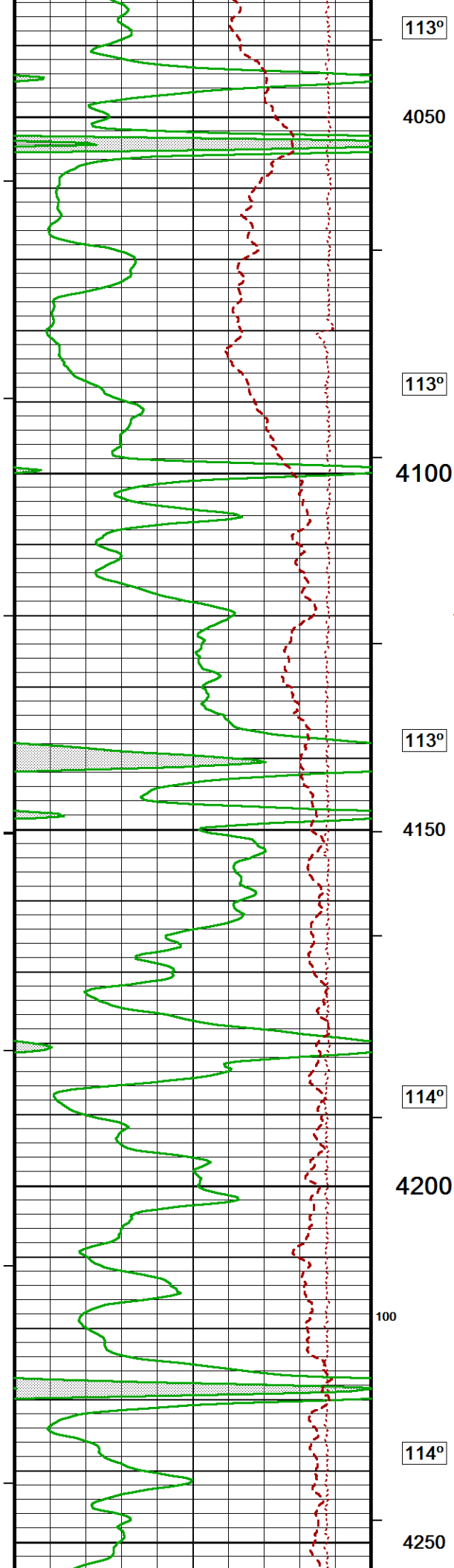


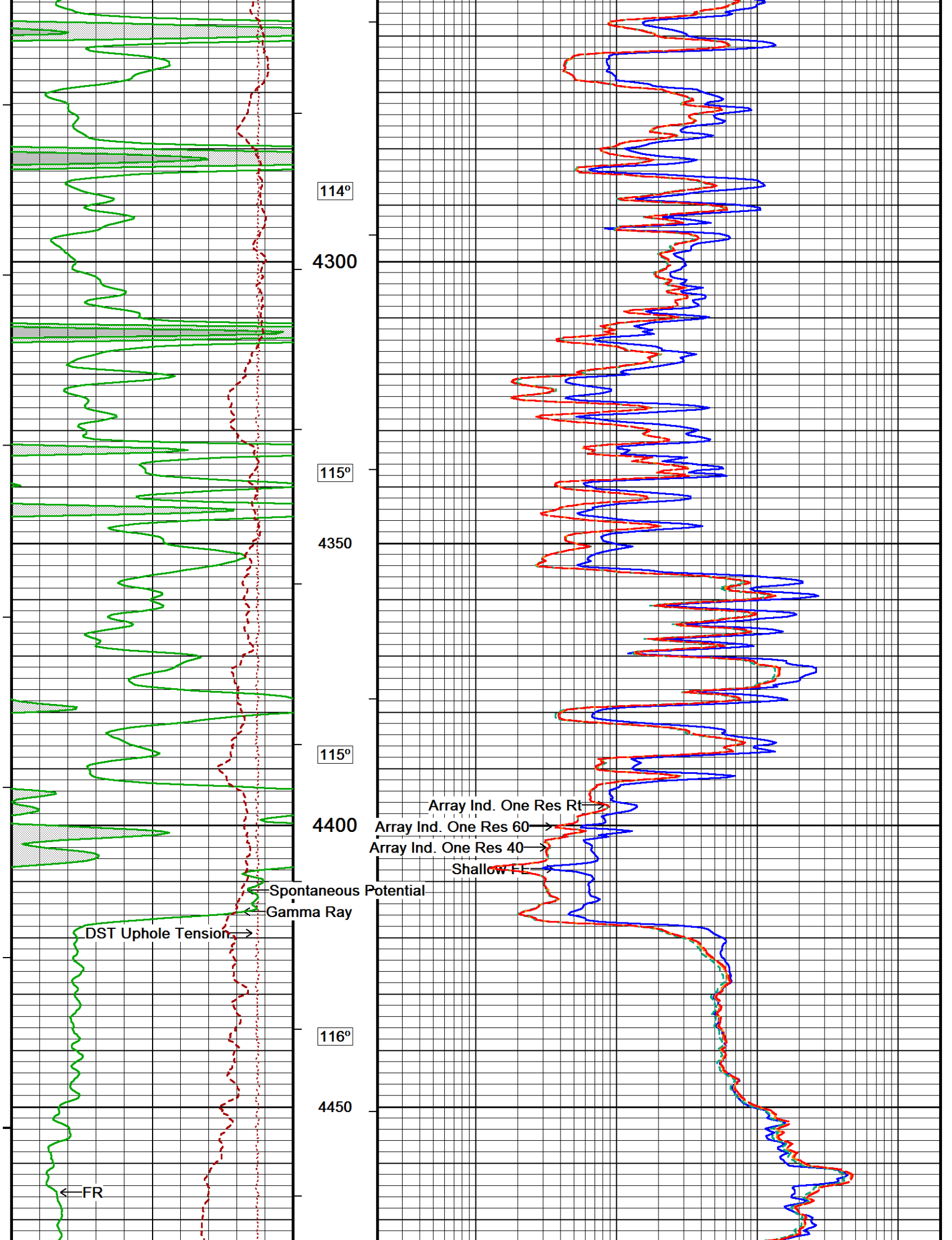
Array Ind. One Res Rt

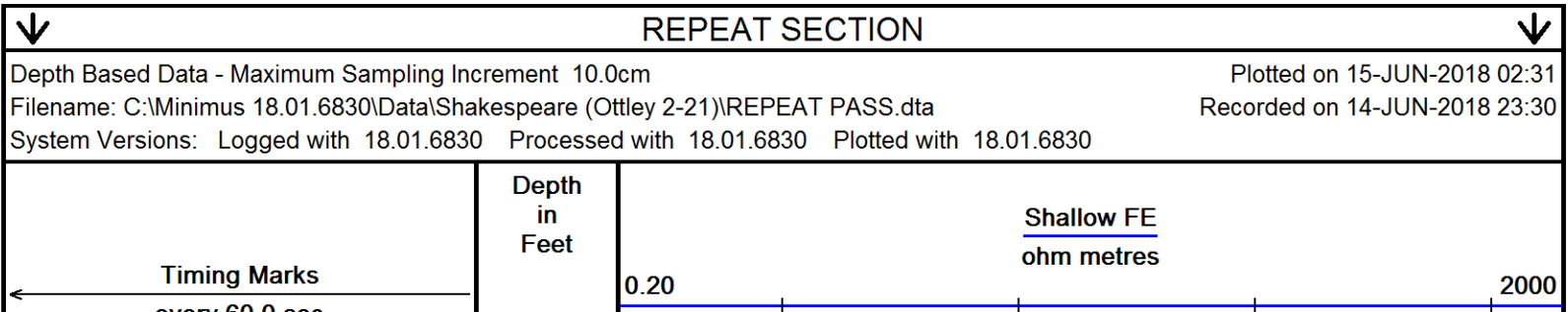
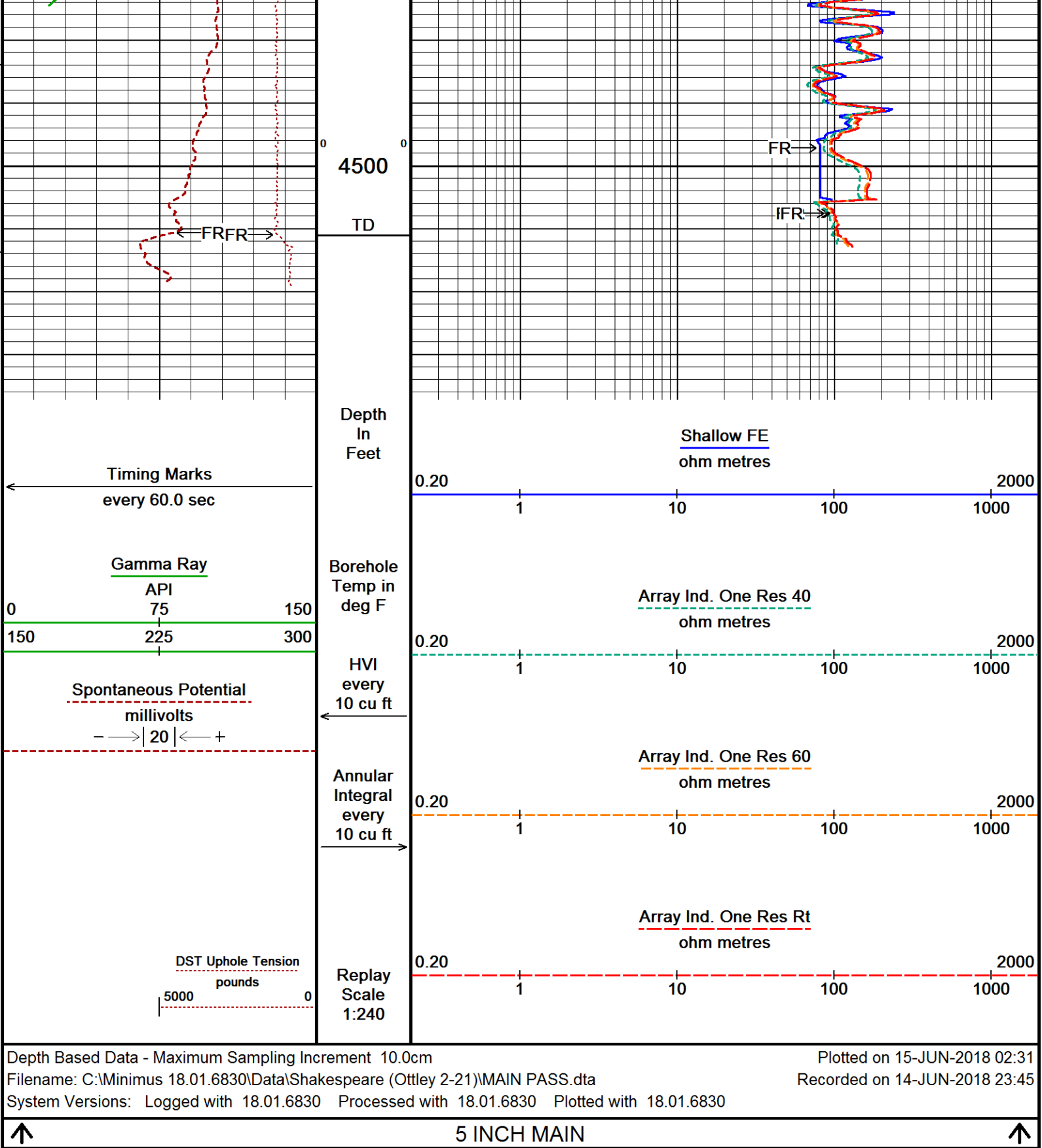
Array Ind. One Res 60

Array Ind. One Res 40

Shallow PE







every 60.0 sec

Gamma Ray

API

75

225

0

150

300

Borehole
Temp in
deg F

HVI
every
10 cu ft

Annular
Integral
every
10 cu ft

Replay
Scale
1:240

4300

114°

4350

115°

4400

Spontaneous Potential

Gamma Ray

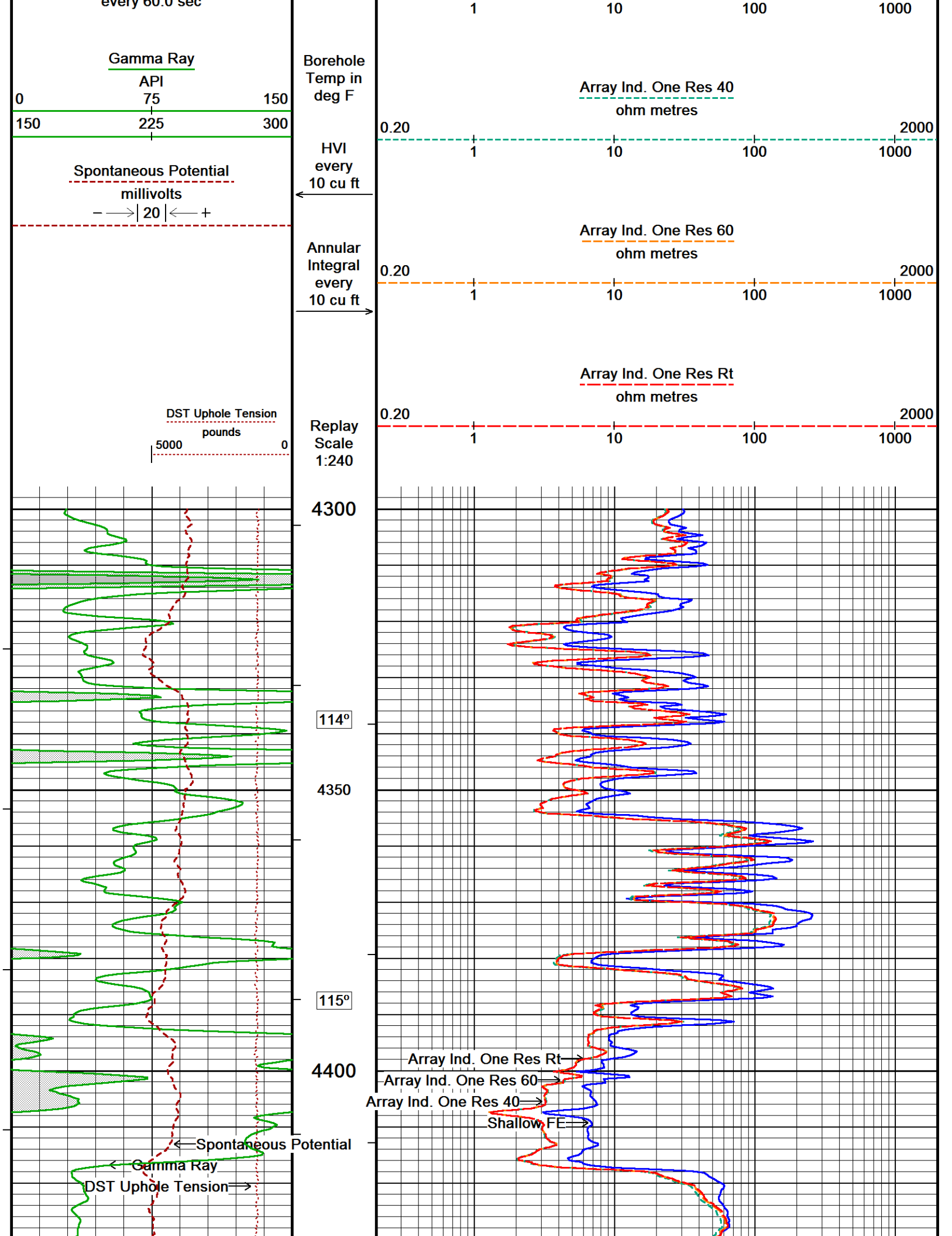
DST Uphole Tension

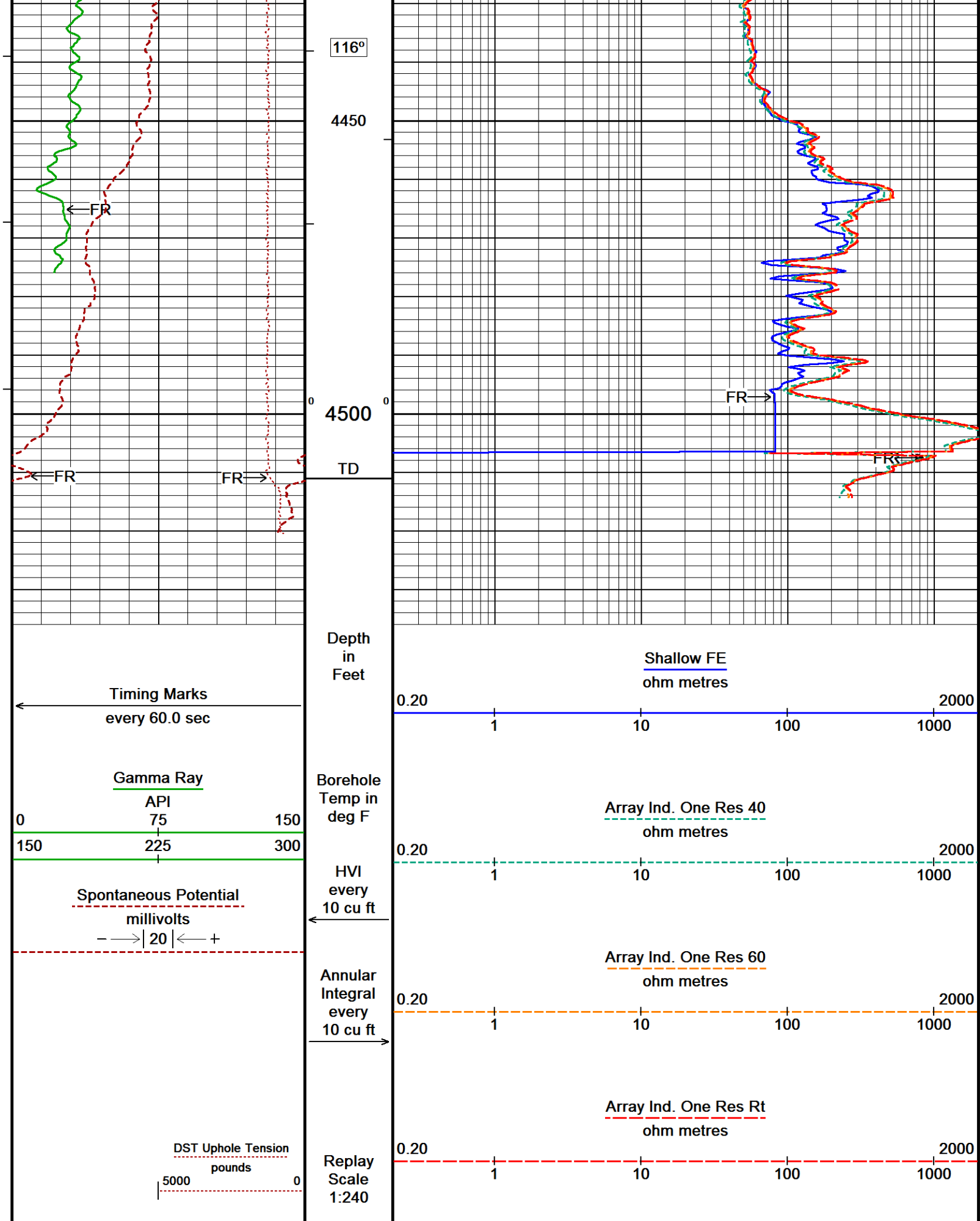
Array Ind. One Res 40
ohm metres

Array Ind. One Res 60
ohm metres

Array Ind. One Res Rt
ohm metres

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





BEFORE SURVEY CALIBRATION

C:\Minimus 18.01.6830\Data\Shakespeare (Ottley 2-21)\MAIN PASS.dta

General Constants All 000

Last Edited on 15-JUN-2018,01:35

General Parameters

Mud Resistivity0.600ohm-metres

Mud Resistivity Temperature96.000degrees F

Water Level0.000feet

Borehole Fluid ProcessingWet Hole

Hole/Annular Volume and Differential Caliper Parameters

HVOL MethodSingle Caliper

HVOL Caliper 1Density Caliper

HVOL Caliper 2N/A

Annular Volume Diameter4.500inches

Caliper for Differential CaliperDensity Caliper

Rwa Parameters

Porosity usedCrossplot Porosity

Resistivity usedArray Ind. Two Res Rt

RWA Constant A0.620

RWA Constant M2.150

SW/APOR Tool Source0.000

Down-hole Tension Calibration SMS 0

Field Calibration on 14-JUN-2018 22:36

Reading NoMeasuredCalibrated (lbs)

115468.140.00

216556.59454.20

Gamma Calibration MCG-D.A 246

Field Calibration on 11-JUN-2018 15:07

BackgroundMeasuredCalibrated (API)

7551

Calibrator (Gross)743507

Calibrator (Net)668456

Gamma Calibration Tolerances MCG-D.A 246

Ratio1.465

1.40

1.475

1.55

Counts/API

Gamma Constants MCG-D.A 246

Last Edited on 14-JUN-2018,22:06

Gamma Calibrator NumberMCGGRCC141

GRC-M Calibrator Jig in Use?NO

Inactive Background Jig in Use?NO

Mud Density1.13gm/cc

Caliper Source for ProcessingDensity Caliper

Tool PositionEccentred

Potassium EquivalenceChloride

K Mud Concentration0.00%

High Resolution Temperature Calibration MCG-D.A 246

Field Calibration on 07-JUN-2018,10:42

LowerMeasuredCalibrated(Deg F)

50.0050.00

Upper212.00212.00

High Resolution Temperature Constants MCG-D.A 246

Last Edited on 07-JUN-2018,10:42

Pre-filter Length11

SP Calibration MCG-D.A 246

Field Calibration on 07-JUN-2018 11:07

Reference 1MeasuredCalibrated (mV)

103.5100.0

Reference 2-96.9-100.1

Micro Normal and Micro Inverse Calibration MMR B.A 01

Base Calibration on 07-JUN-2018 13:43

	Resistor 1 (ohm)	Resistor 2 (ohm)
	10.0	50.0
Base Calibration		
	Measured	Calibrated (ohm-m)
Micro Normal	10.2 49.8	5.1 25.6
Micro Inverse	9.9 49.4	3.4 16.9
Channel	Base Check (ohm-m)	Field Check (ohm-m)
Micro Normal	93.9	93.9
Micro Inverse	62.3	62.3

Micro Normal & Micro Inverse Calibration Tolerance MMR-B.A 91

Micro Normal Res. 1	10.2		ohm	Micro Normal Res. 2	49.8		ohm
Micro Inverse Res. 1	9.9		ohm	Micro Inverse Res. 2	49.4		ohm
Micro Normal Base Check	93.9		ohm-m				
Micro Inverse Base Check	62.3		ohm-m				
Micro Normal Field Check	93.9		ohm-m				
Micro Inverse Field Check	62.3		ohm-m				

Micro Normal and Micro Inverse Constants MMR-B.A 91

Last Edited on 13-APR-2018,05:04

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-B.A 91

Base Calibration on 07-JUN-2018 13:30
Field Calibration on 11-JUN-2018 15:36

Base Calibration		
Reading No	Measured	Calibrator Size (in)
1	13946	5.98
2	17303	7.97
3	20607	9.86
4	24616	11.92
5	0	0.00
6	N/A	N/A
Field Calibration		
	Measured Caliper (in)	Actual Caliper (in)
	8.00	7.97

Caliper Calibration Tolerances MMR-B.A 91

Short Arm Field Cal.	8.00		in
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Micro-Resistivity Caliper Constants MMR-B.A 91

Sonde Configuration	Resistivity Mode
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Micro Laterolog Calibration MMR-B.A 91

Base Calibration on 31-DEC-1999 00:00
Field Check on 31-DEC-1999 00:00

	Resistor 1 (ohm)		Resistor 2 (ohm)	
	0.0		0.0	
Base Calibration				
	Measured		Calibrated (ohm-m)	
	Ref 1	Ref 2	Ref 1	Ref 2
	0.0	0.0	0.0	0.0
	Base Check (ohm-m)		Field Check (ohm-m)	
	0.0		0.0	

Micro Laterolog Constants MMR-B.A 91

Pad Type	6 in Solid Nylon B23059
Standoff Offset	0.0000 inches
Micro Laterolog K Factor	0.0128

Micro Laterolog R Factor	0.0120	N/A
Mudcake Thickness Correction Constants		
Mud Cake Source	Constant Value	
Mud Cake Thickness	0.4000	inches
Mud Cake Thickness Caliper		
Mud Cake Resistivity	0.1500	ohm-m
Mud Cake Resistivity Temp.	20.00	Degrees C
Mud Cake Resistivity Source	Constant Value	
Temp. for Rmc Corr.	MCG External Temperature	

Neutron Calibration MDN-B.A 292

Base Calibration on 15-MAY-2018 10:16
Field Check on 11-JUN-2018 15:13

Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	2945	91	3714	110
Ratio	32.304		33.764	

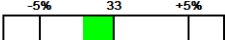
Field Calibrator at Base

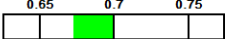
	Calibrated (cps)	
	2179	3239
Ratio	0.673	

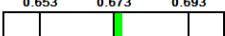
Field Check

	Calibrated (cps)	
	2170	3215
Ratio	0.675	

Neutron Calibration Tolerances MDN-B.A 292

Ratio 32.304 

Base Check 0.673 

Field Check 0.675 

Neutron Constants MDN-B.A 292

Last Edited on 14-JUN-2018,22:08

Neutron Source Id	P0204NN	
Neutron Jig Number	NJ5736	
Air Hole Processing	Modified Ratio	
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-A.A 135

Base Calibration on 07-JUN-2018 13:53
Field Check on 11-JUN-2018 15:20

	Resistor 1 (ohm)	Resistor 2 (ohm)
	0.0	1000.0
Base Calibration		
	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	962.0	126.8
Base Check		281.3
Field Check		281.2

FE Calibration Tolerances MFE-A.A 135

Reference 2	962.0		ohm
Base Check	281.3		ohm-m
Field Check	281.2		ohm-m

FE Constants MFE-A.A 135

Last Edited on 11-JUN-2018,15:18

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

High Resolution Temperature Calibration MAI-A.A 111

Field Calibration on 23-FEB-2018,11:15

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

High Resolution Temperature Constants MAI-A.A 111

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

Pre-filter Length	11
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Induction Calibration MAI-A.A 111

Factory Loop Calibration 07-JUN-2018 14:52

Field Check on 11-JUN-2018 16:21

Factory Loop Calibration

High Conductivity Reference Resistor	3.3 ohm
Low Conductivity Reference Resistor	333.3 ohm

Array	Measured Signal (unitless)		Reference Conductivity (mmho/m)		Calibration	
	Low	High	Low	High	Gain	Offset
1 (near)	17.6	473.6	9.3	966.2	0.000	0.0
2	6.4	385.9	7.6	821.4	0.000	0.0
3	3.2	264.0	5.2	566.0	0.000	0.0
4 (far)	2.1	135.5	2.6	279.2	0.000	0.0
Array Temperature	23.0		Deg F			

Tool Checks

Array	Factory Reference (mmho/m)		Before Survey (mmho/m)		
	Low	High	Low	High	
1 (near)	11.4	3841.4	11.4	3842.9	
2	29.4	3499.6	29.4	3500.4	
3	28.8	2996.9	28.7	2997.4	
4 (far)	18.9	2041.5	18.9	2041.9	
Array Temperature	83.6		99.3		Deg F

Induction Check Tolerances MAI-A.A 111

Low Array 1	11.4		mmho/m	High Array 1	3842.9		mmho/m
Low Array 2	29.4		mmho/m	High Array 2	3500.4		mmho/m
Low Array 3	28.7		mmho/m	High Array 3	2997.4		mmho/m
Low Array 4	18.9		mmho/m	High Array 4	2041.9		mmho/m

Induction Constants MAI-A.A 111

Last Edited on 14-JUN-2018,22:05

Induction Model	RtAP-WBM
Borehole Correction Constants	
Tool Centred	No
Hole Size Source	Density Caliper
Hole Size Constant Value	2.500 inches
Stand-off Type	Fins
Stand-off	0.50 inches

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	
Borehole Correction Method	Default	
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	
Source for Rxo	0.00	

Caliper Calibration MPD-C.A 216

Base Calibration on 07-JUN-2018 14:09

Field Calibration on 11-JUN-2018 15:33

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	14245	3.99
2	22960	5.98
3	31650	7.97
4	39952	9.86
5	49231	11.92
6	N/A	N/A

Field Calibration

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

Caliper Calibration Tolerances MPD-C.A 216

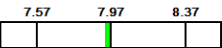
Long Arm Field Cal. 7.93  in

Photo Density Calibration MPD-C.A 216

Base Calibration on 07-JUN-2018 14:35

Field Check on 11-JUN-2018 15:18

Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Background	1007	1198		
Reference 1	50088	24364	59556	30836
Reference 2	19851	2273	24941	2541

Field Check at Base

1006.9	1197.8
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Field Check

1004.3 1191.6

PE Calibration

Base Calibration

Measured

Calibrated

	WS	WH	Ratio
Background	184	903	
Reference 1	21030	49928	0.425
Reference 2	5765	19740	0.296

Ratio

0.371
0.272

Field Check at Base

184.4 903.5

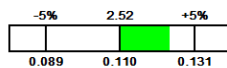
Field Check

182.8 903.0

Photo Density Calibration Tolerances MPD-C.A 216

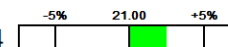
Near Density Ratio

2.60



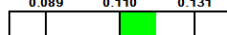
Far Density Ratio

21.54



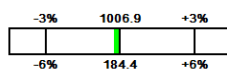
PE Calibration

0.120



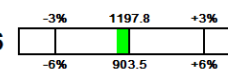
Near Den. Field Check

1004.3



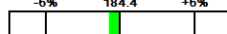
Far Den. Field Check

1191.6



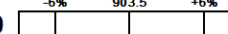
PE WS Field Check

182.8



PE WH Field Check

903.0



Density Constants MPD-C.A 216

Last Edited on 14-JUN-2018,22:06

Density Source Id	P50557B	
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	1.13	gm/cc
Mud Density Type		
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	
Precision Enhanced Density Processing	Not Applied	
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:\Minimus 18.01.6830\Data\Shakespeare (Ottley 2-21)\MAIN PASS.dta

Cablehead, 11 pin

CBH-C 0 LG: 2.40 ft WT: 24.3 lb OD: 2.244 in

Compact Swivel Head Adaptor

SHA-J.B 724 LG: 2.30 ft WT: 22.0 lb OD: 2.244 in

Compact Comms Gamma

MCG-D.A 246 LG: 8.70 ft WT: 63.9 lb OD: 2.244 in

Compact Micro-Resistivity

MMR-B.A 91 LG: 8.59 ft WT: 81.6 lb OD: 4.882 in



45.66 ft GRGC - MCG Gamma Ray

42.76 ft CGXT - MCG External Temperature

36.40 ft MBTC - MMR Caliper

Compact Neutron
MDN-B.A 292 LG: 5.04 ft WT: 50.7 lb OD: 2.244 in

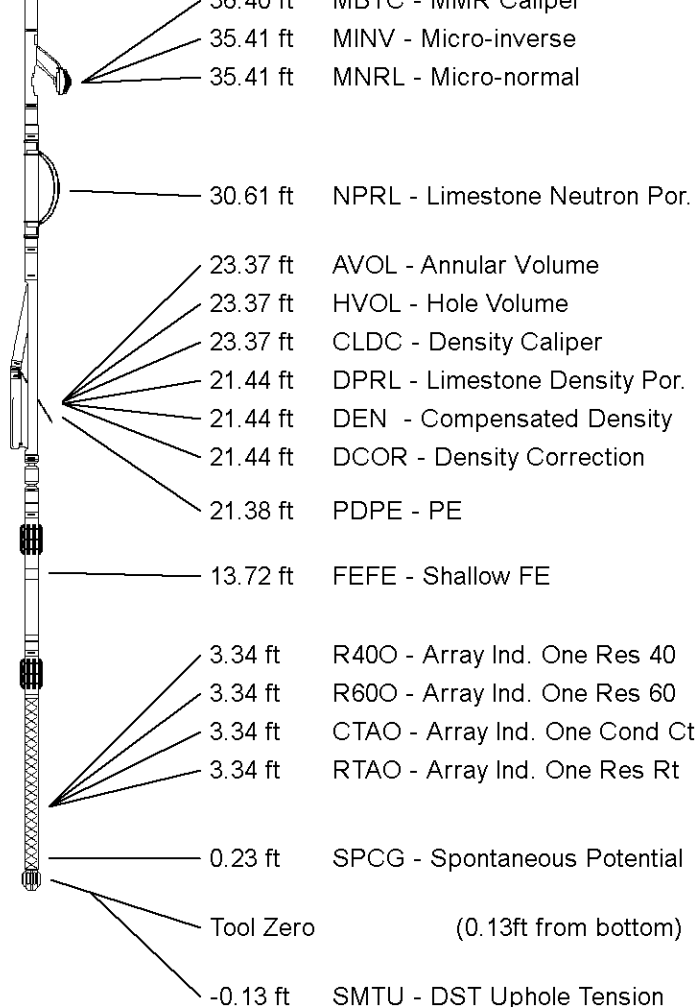
Compact Density/Caliper
MPD-C.A 216 LG: 9.59 ft WT: 90.4 lb OD: 2.913 in

Compact Knuckle Joint
SKJ-D.A 167 LG: 2.17 ft WT: 24.3 lb OD: 2.244 in

Compact Focussed Electric
MFE-A.A 135 LG: 6.05 ft WT: 48.5 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: 55.64 ft Weight: 454.2 lb



All measurements relative to tool zero.

COMPANY SHAKESPEARE OIL CO., INC
WELL OTTLEY 2-21
FIELD CHALK BUTTES
PROVINCE/COUNTY LOGAN
COUNTRY/STATE USA / KANSAS

Elevation Kelly Bushing	2783	feet	First Reading	4508.00	feet
Elevation Drill Floor	2781	feet	Depth Driller	4511.00	feet
Elevation Ground Level	2771	feet	Depth Logger	4511.00	feet



ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG

Weatherford®

Weatherford®		ARRAY SHALLOW ELEC
COMPANY SHAKESPEARE OIL CO., INC		
WELL OTTLEY 2-21		
FIELD CHALK BUTTES		
PROVINCE/COUNTY LOGAN		
COUNTRY/STATE USA / KANSAS		
LOCATION 2050' ENL & 2490' FEL NW-SW		
SEC 21	T1P 14S R6E S21W	016.6 Acres
Latitude	38.824933	HP/DMDN
Longitude	-100.807941	
Well Number	15-10521531	
Permanent Datum G.L. Elevation 2771 feet		
Log Measured From KB, 142.00 feet above Permanent Datum		
Drilling Measured From KB		
Date	14-JUN-2018	
Run Number	ONE	
Service Order	7055-21622097	
Depth Driller	4511.00	feet
Depth Logger	4511.00	feet
First Reading	4508.00	feet
Last Reading	266.00	feet
Casing Driller	267.00	feet
Casing Logger	266.00	feet
Bit Size	7 8/75	inches
Hole Fluid Type	WBM	
Density / Viscosity	9.40 lb/USg	59.00 sec/cP
PH / Fluid Loss	9.50	10.00 ml/30min
Sample Source	MUD TANK	
Rim @ Measured Temp	0.60 @ 98.0	ohm-m
Rim @ Measured Temp	0.48 @ 96.0	ohm-m
Rim @ Measured Temp	0.72 @ 96.0	ohm-m
Source Rim / Rimc	CALC	CALC
Rim @ BHT	0.50 @ 116.0	ohm-m
Time Since Circulation	5 HOURS	deg F
Max Recorded Temp	116.00	deg F
Equipment / Base	11306	LUB
Recorded By	JUSTIN HICKS	
Witnessed By	MES HANSON	

1 INCH MAIN

Depth Based Data - Maximum Sampling Increment 10.0cm
 Filename: C:\Minimus 18.01.6830\Data\Shakespeare (Ottley 2-21)\MAIN PASS.dta
 System Versions: Logged with 18.01.6830 Processed with 18.01.6830 Plotted with 18.01.6830
 Plotted on 15-JUN-2018 02:32
 Recorded on 14-JUN-2018 23:45

Timing Marks
 every 60.0 sec

Gamma Ray
 API
 75
 150 225 300

Spontaneous Potential
 millivolts
 - -> 20 | <- +

DST Uphole Tension
 pounds
 5000 0

Depth In Feet
 1000 750 500 250 0
 2000 1750 1500 1250 1000

Borehole Temp in deg F

HVI every 10 cu ft
 Shallow FE ohm metres
 0 25 50
 0 250 500

Annular Integral every 10 cu ft

Array Ind. One Res Rt ohm metres
 0 25 50
 0 250 500

Array Ind. One Cond Ct mmhos/metre
 0 250 500

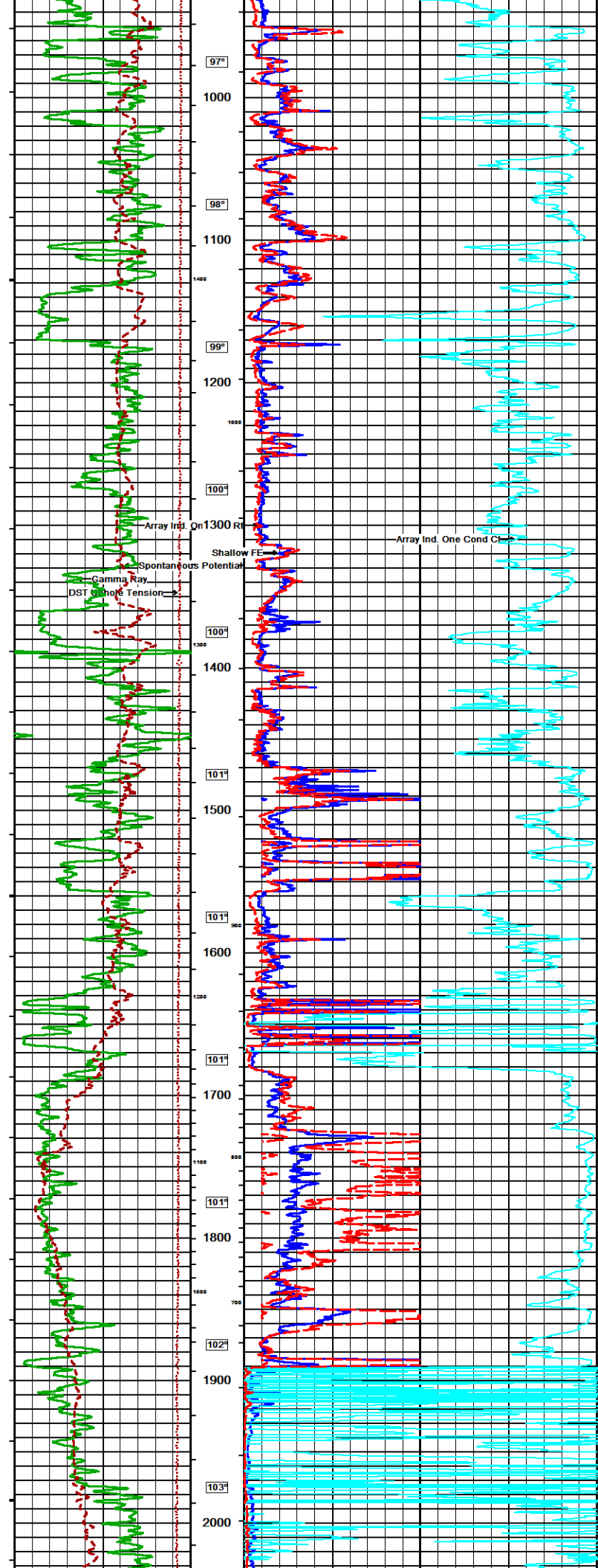
Replay Scale 1:600

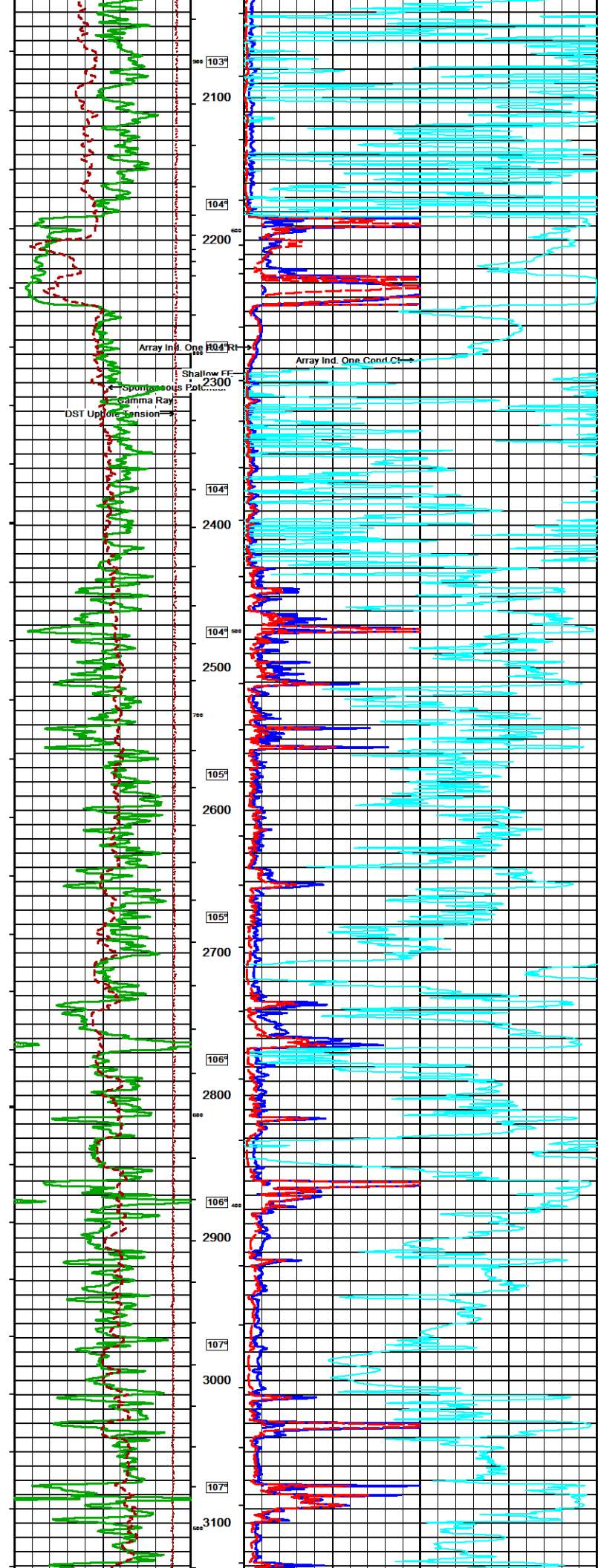
250 Casing Shoe

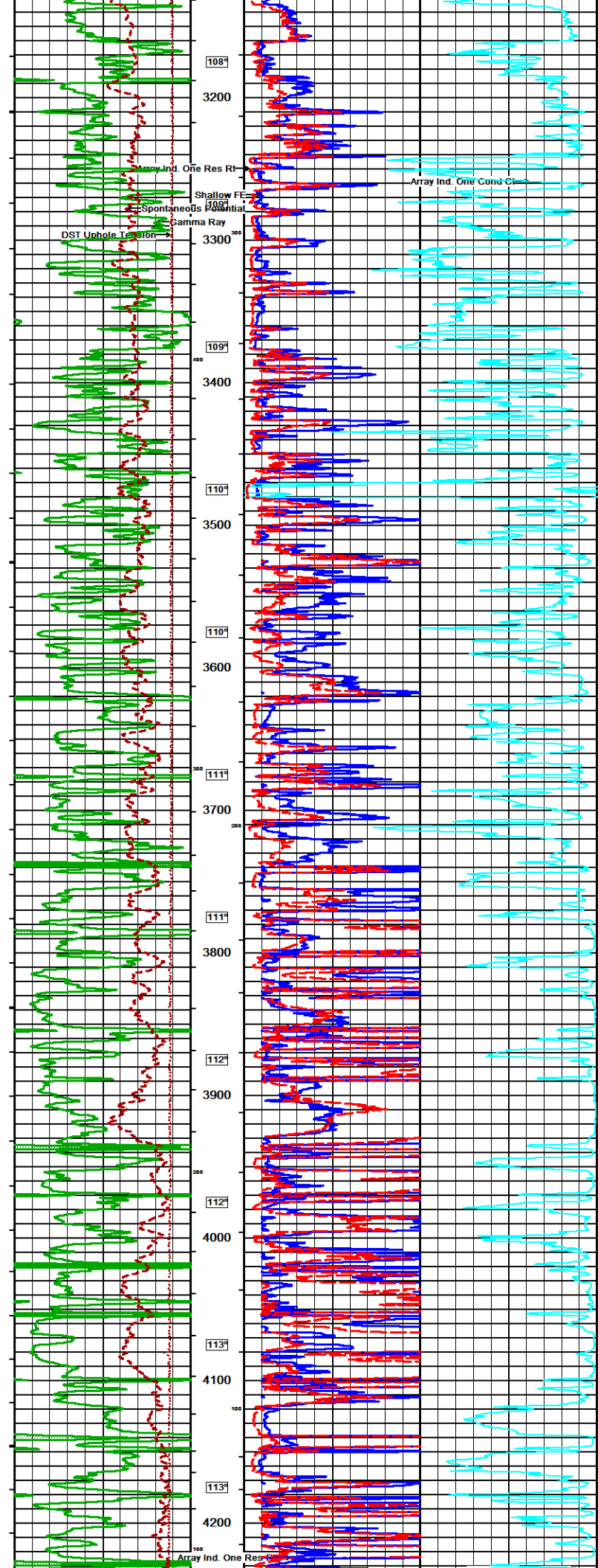
Array Ind. One Res Rt
 Shallow FE
 Array Ind. One Cond Ct

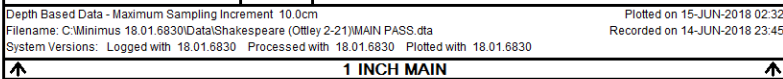
Spontaneous Potential
 Gamma Ray
 DST Uphole Tension

94°
 94°
 95°
 96°
 96°
 97°









COMPANY		SHAKESPEARE OIL CO., INC	
WELL		OTTLEY 2-21	
FIELD		CHALK BUTTES	
PROVINCE/COUNTY		LOGAN	
COUNTRY/STATE		USA / KANSAS	
Elevation Kelly Bushing	2783	feet	First Reading
Elevation Drill Floor	2781	feet	Depth Driller
Elevation Ground Level	2771	feet	Depth Logger
			4508.00 feet
			4511.00 feet
			4511.00 feet



ARRAY INDUCTION

SHALLOW FOCUSED

ELECTRIC LOG

Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Andrew J. French, Chairperson
Dwight D. Keen, Commissioner
Annie Kuether, Commissioner

Laura Kelly, Governor

March 14, 2025

Jeff Scarbrough
Shakespeare Oil Co., Inc.
202 W MAIN ST
SALEM, IL 62881-1519

Re: Plugging Application
API 15-109-21551-00-00
OTTLEY 2-21
NE/4 Sec.21-14S-32W
Logan County, Kansas

Dear Jeff Scarbrough:

The Conservation Division has received your Well Plugging Application (CP-1).

Under K.A.R. 82-3-113(b)(2), you must notify DISTRICT 4 of your proposed plugging plan at least 5 days before plugging the well. DISTRICT 4's phone number is (785) 261-6250. Failure to notify DISTRICT 4, or failure to file a Well Plugging Record (CP-4) after the well is plugged will result in a penalty recommendation.

Under K.A.R. 82-3-600, you must file an Application for Surface Pit (CDP-1) if you wish to use a workover pit while plugging the well. Failure to timely file a CDP-1, failure to timely remove fluids, or failure to timely file Closure of Surface Pit (CDP-4) or Waste Transfer (CDP-5) forms will result in a penalty recommendation.

This receipt does NOT constitute authorization to plug this well if you do not otherwise have the legal right to do so.

This receipt is VOID after September 10, 2025. If the well is not plugged by then, you will have to submit a new CP-1 if you wish to plug the well.

The September 10, 2025 deadline does NOT override any compliance deadline given to you by Legal, District, or other Commission Staff. Failure to comply with any given deadline will still result in the Commission assessing penalties, or taking other legal action.

Sincerely,
Production Department Supervisor

cc: DISTRICT 4