GAMMA-INDUCTON-SONIC
COMPOSITE LOG

COMPANY	NUEVIDA RESOURCES, LLC
WELL	ARDOUREL 3HL
FIELD	MORIARTY PROSPECT
COUNTY	LA PLATA
STATE	COLORADO, USA
LOCATION	1773' FSL & 292' FWL

SEC 18	TWP 33N	RGE 8W	Other Services
Latitude	37.101193		
Longitude	-107.733918		
API Number	05-067-10037-00		

Permanent Datum GL, Elevation 6719 feet
Log Measured From KB, 25.00 feet above Permanent Datum
Drilling Measured From KB

Elevations:	feet
KB	6744.00
DF	6744.00
GL	6719.00

Date	22-AUG-2023				
Run Number	1				
Service Order	111-22				
Depth Driller	6292.00	feet			
Depth Logger	6257.00	feet			
First Reading	6256.00	feet			
Last Reading	543.00	feet			
Casing Driller	543.00	feet			
Casing Logger	543.00	feet			
Bit Size	12.250	inches			
Hole Fluid Type	WBM				
Density / Viscosity	8.90	lb/USg	44.00	sec/qt	
PH / Fluid Loss	10.00		9.00	ml/30Min	
Sample Source	FLOWLINE				
Rm @ Measured Temp	2.26 @ 75.0	ohm-m			
Rmf @ Measured Temp	1.69 @ 75.0	ohm-m			
Rmc @ Measured Temp	2.83 @ 75.0	ohm-m			
Source Rmf / Rmc	CALC		CALC		
Rm @ BHT	1.01 @172.0	ohm-m			
Time Since Circulation	8HRS				
Max Recorded Temp	172.00	deg F			
Equipment / Base	111		VERNAL		
Recorded By	E. GARCIA			C. ARVELO	
Witnessed By	P. ARUNAKUL				
DRILLING RIG	AZTEC 1000				

BOREHOLE RECORD

Last Edited: 22-AUG-2023 02:13

Bit Size inches	Depth From feet	Depth To feet
17.500	0.00	518.00
12.250	518.00	6292.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	13.375	0.00	518.00	54.50

REMARKS

SOFTWARE: LOGGED WITH WLS. 22.11.1632

CALIBRATED MEASURE WHEEL PROCEDURE. FIRST RUN IN HOLE.

TOOLS RUN: MAI, MFE, MSS, SKJ, MPD, MCG, SHA, MTA, CBH

HARDWARE: MAI: 0.5" STANDOFF
MFE: 0.5" STANDOFF
MPD: 8" PROFILE PLATE FITTED
MSS: 0.5" STANDOFF X3

ANNULAR VOLUME BASED ON 9.625" CASING

FOR HOLE VOLUME AND ANNULAR VOLUME, PLEASE SEE LOG

CREW: ARVELO, GARCIA, MUIR

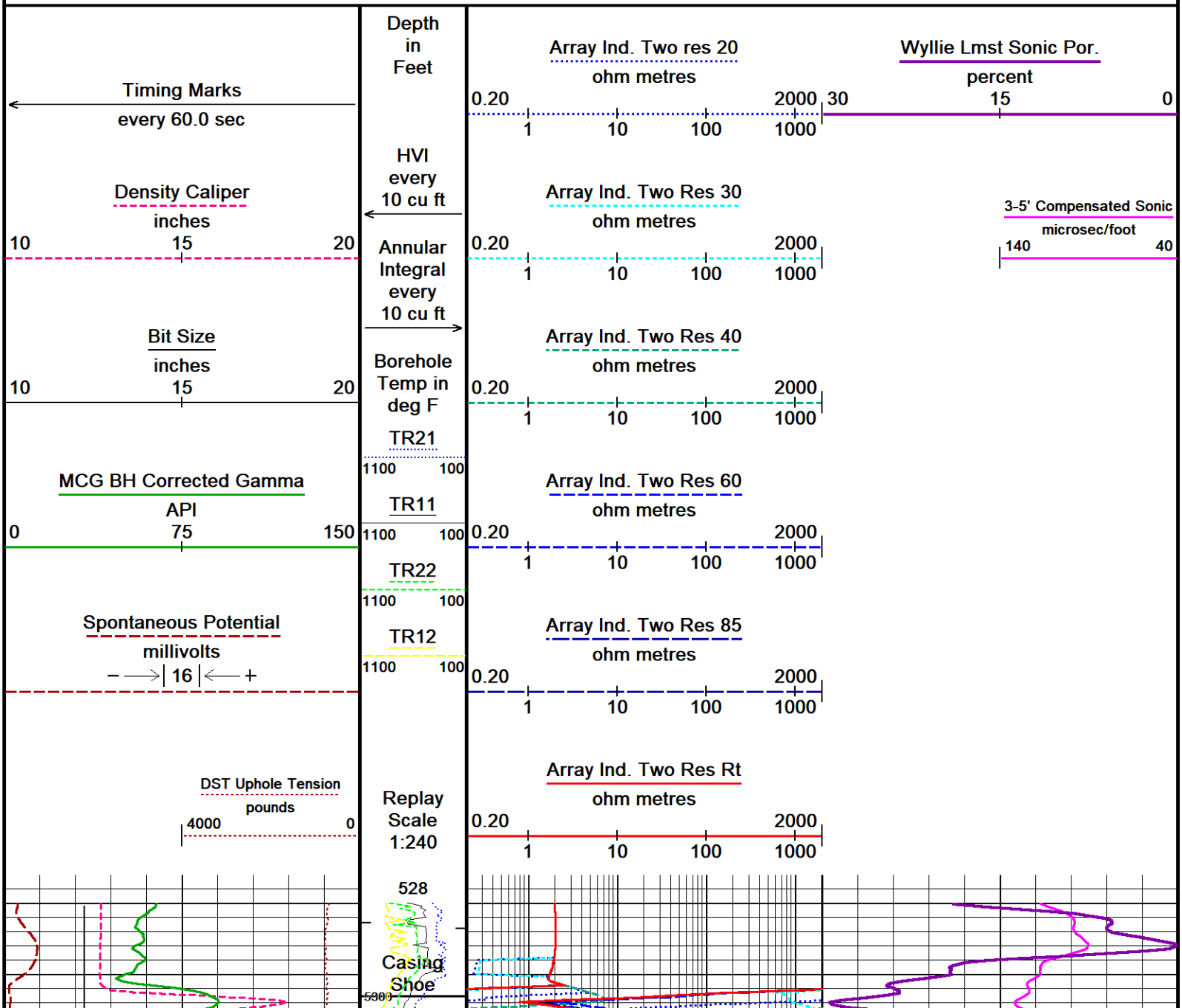
CREW: ARVELO, GARCIA, MUIR

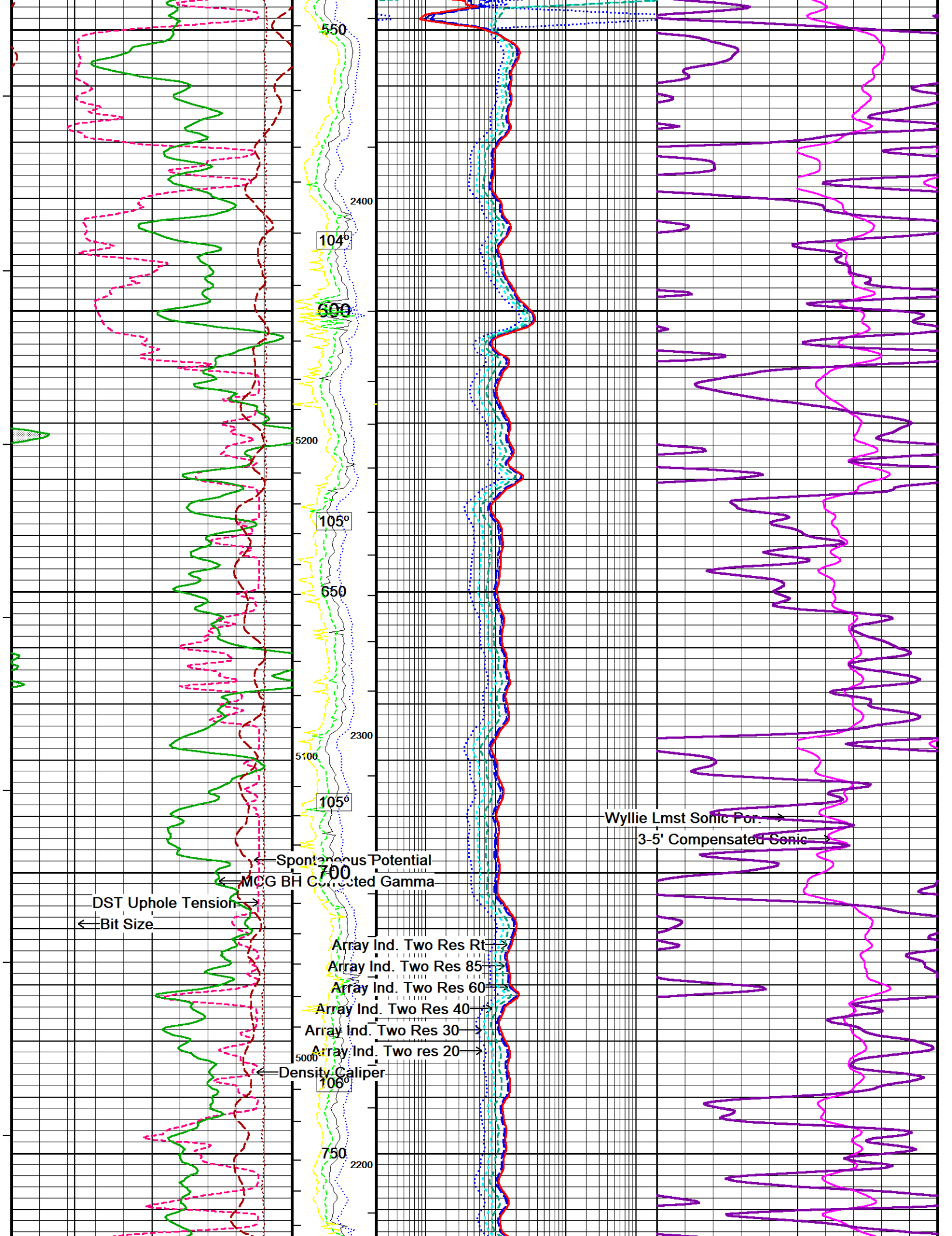
In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will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

Powered by Weatherford tools, acquisition systems, and software

5 INCH MAIN PASS

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 22-AUG-2023 08:21
Filename: C:\LOGS\NUEVIDA RESOURCES\ARDOUREL #3HL\MP.dta
Recorded on 22-AUG-2023 04:38
System Versions: Logged with 21.13.1548 Plotted with 21.13.1548

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2400
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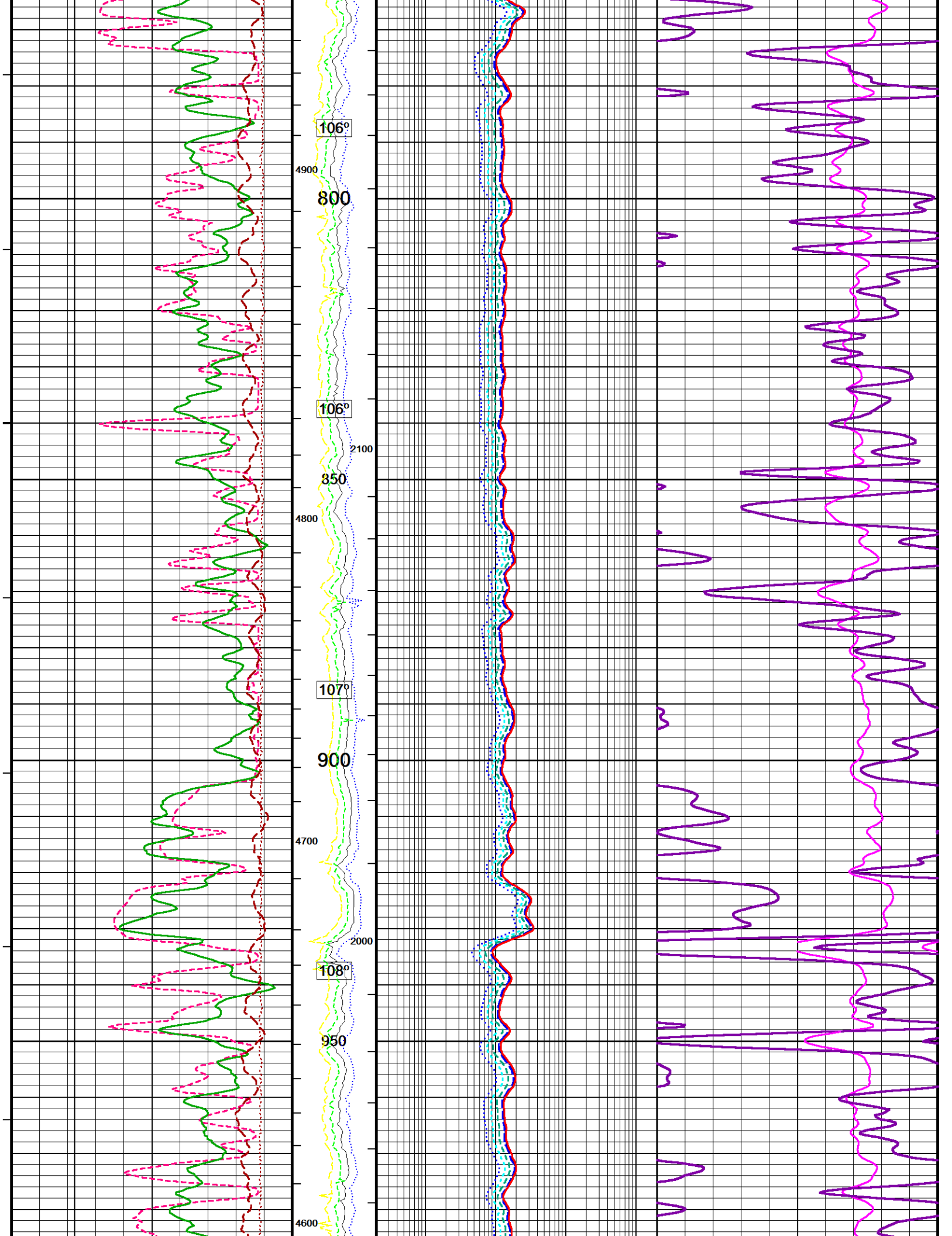
500
5200
105°
650
2300
5100
105°
700
5000
106°
750
2200
Spontaneous Potential
MCG BH Corrected Gamma
DST Uphole Tension
Bit Size
Array Ind. Two Res Rt
Array Ind. Two Res 85
Array Ind. Two Res 60
Array Ind. Two Res 40
Array Ind. Two Res 30
Array Ind. Two res 20
Density Caliper
Wyllie Lmst Sonic Por.
3-5' Compensated Sonic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800
106°
2100
850
4800
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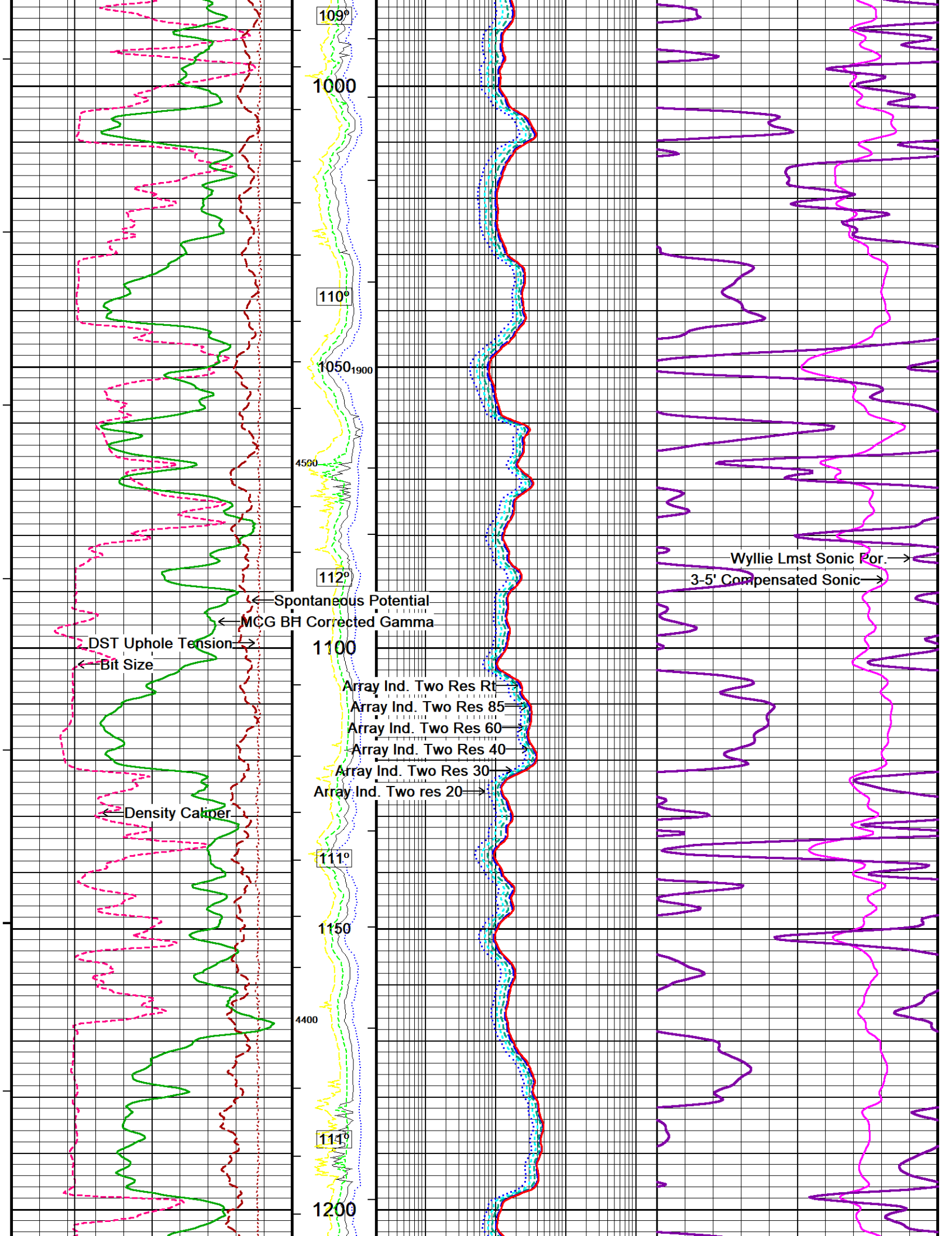
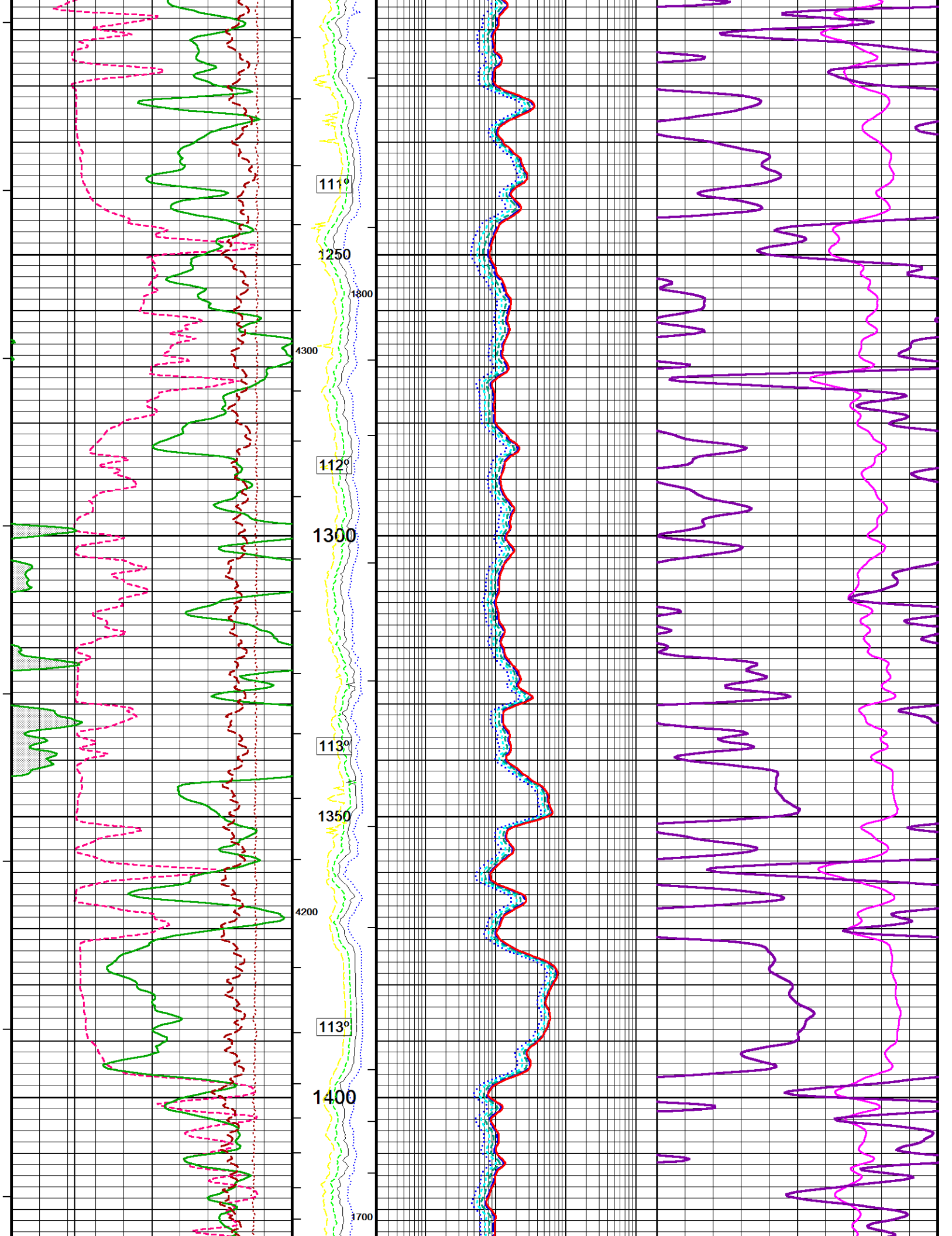
900
4700
2000
108°
950
4600


109°
1000
110°
1050
1900
4500
112°
Spontaneous Potential
MCG BH Corrected Gamma
DST Uphole Tension
Bit Size
1100
Array Ind. Two Res Rt
Array Ind. Two Res 85
Array Ind. Two Res 60
Array Ind. Two Res 40
Array Ind. Two Res 30
Array Ind. Two res 20
Density Caliper
111°
1150
4400
111°
1200
Wyllie Lmst Sonic Por
3-5' Compensated Sonic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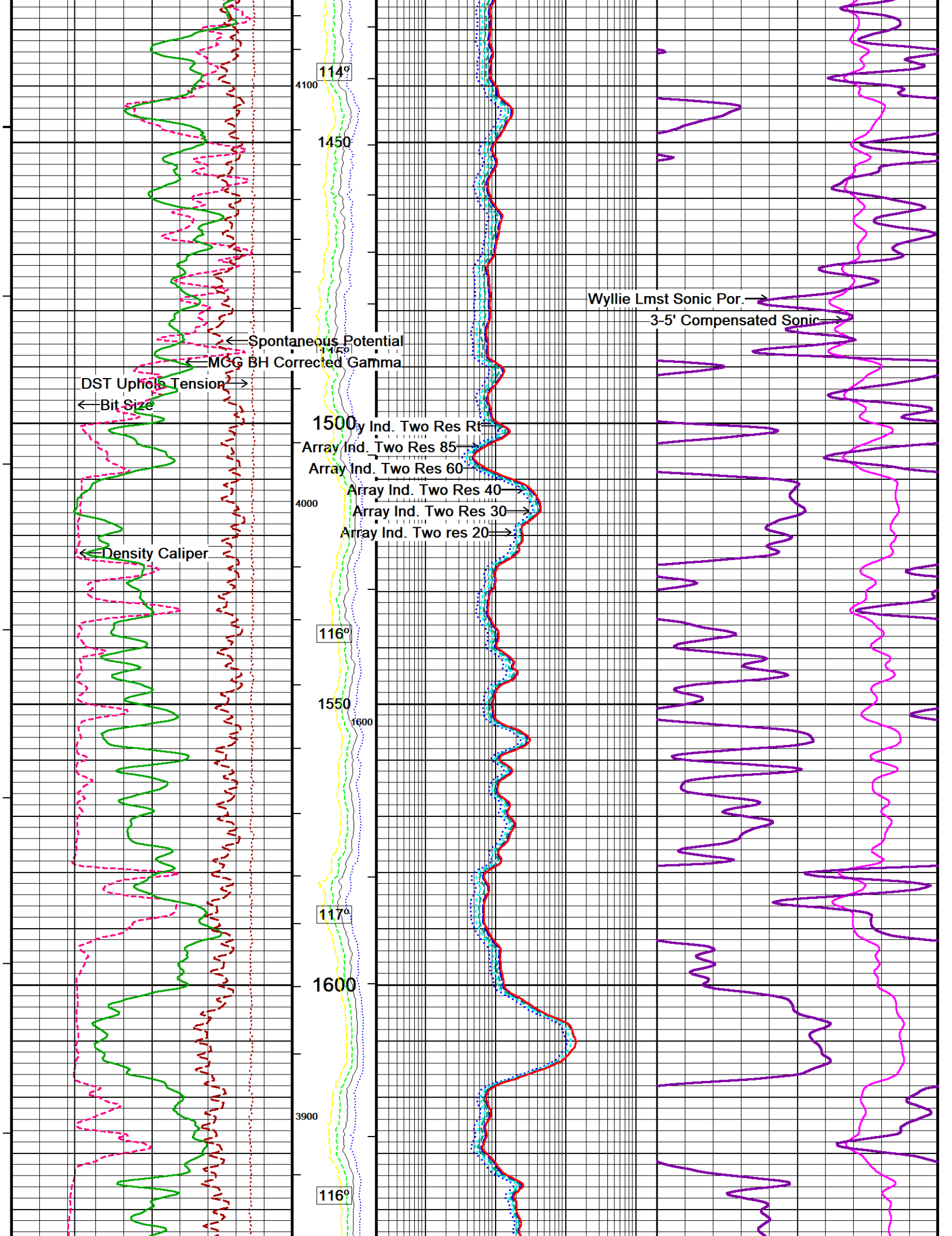
1400
1700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1450
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3-5' Compensated Sonic
Spontaneous Potential
MCG BH Corrected Gamma
DST Uphole Tension
Bit Size
1500
y Ind. Two Res Rt
Array Ind. Two Res 85
Array Ind. Two Res 60
Array Ind. Two Res 40
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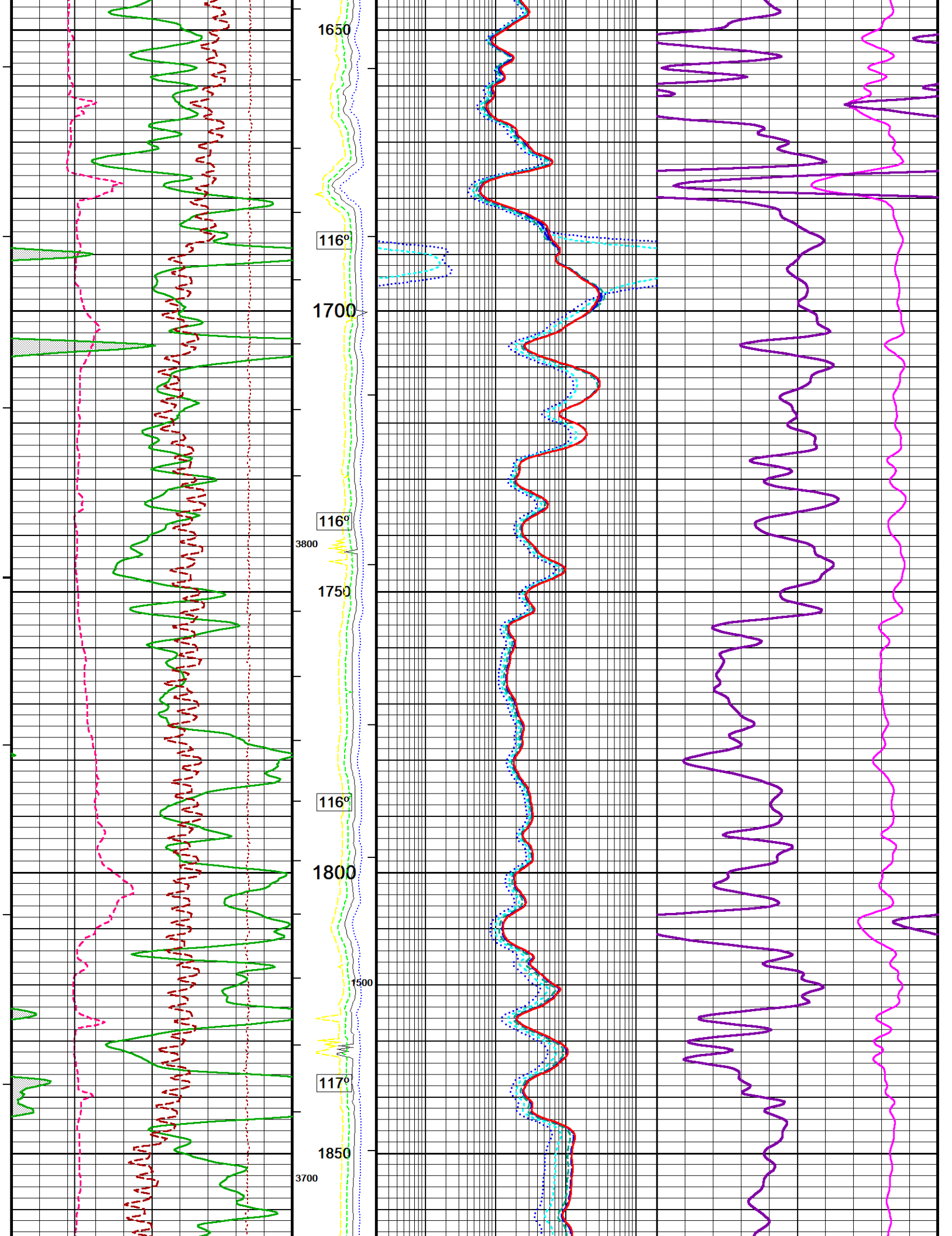
Array Ind. Two Res 30
Array Ind. Two res 20
Density Caliper
116°
1550
1600
117°
1600
3900
116°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1700
116°
3800
1750
116°
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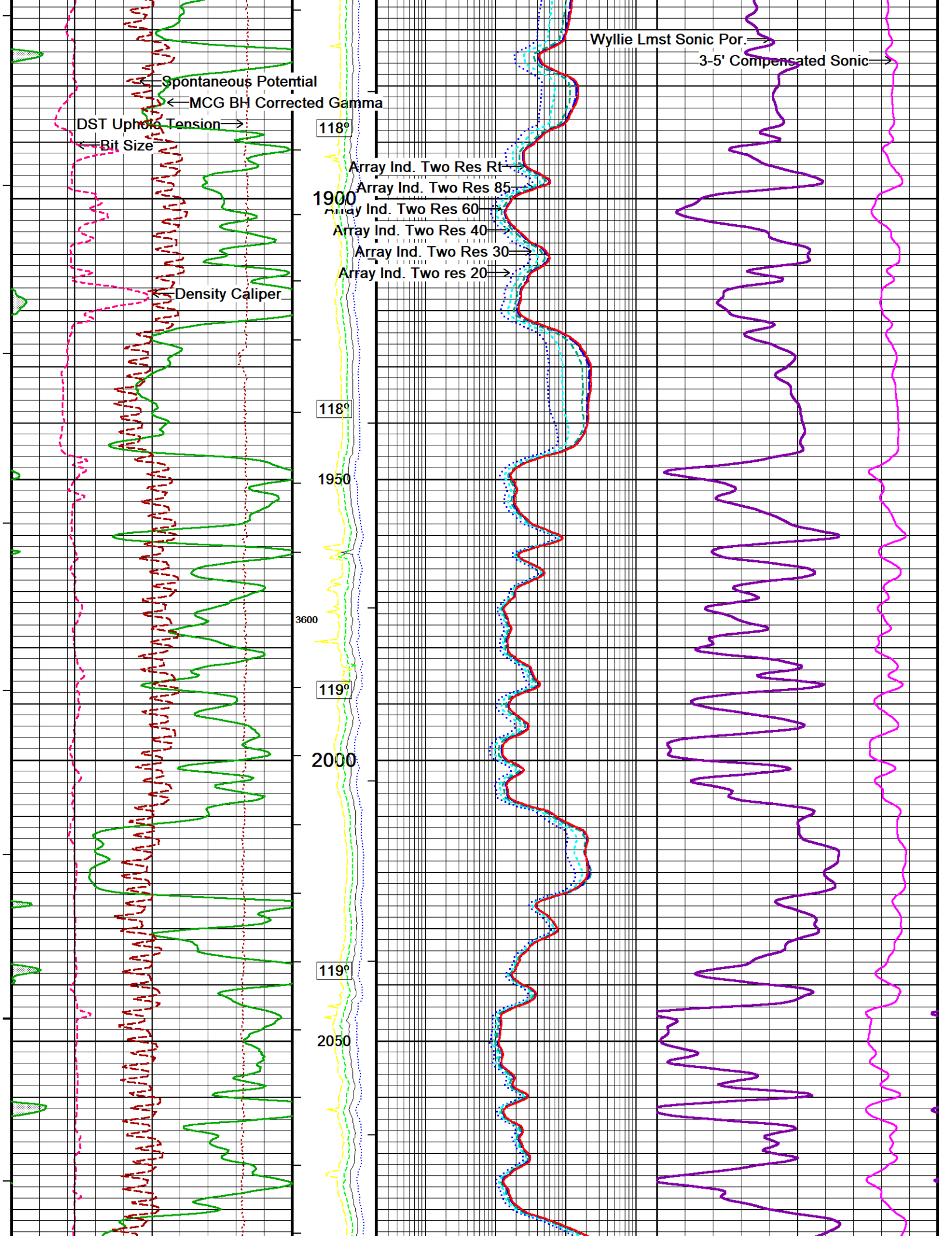
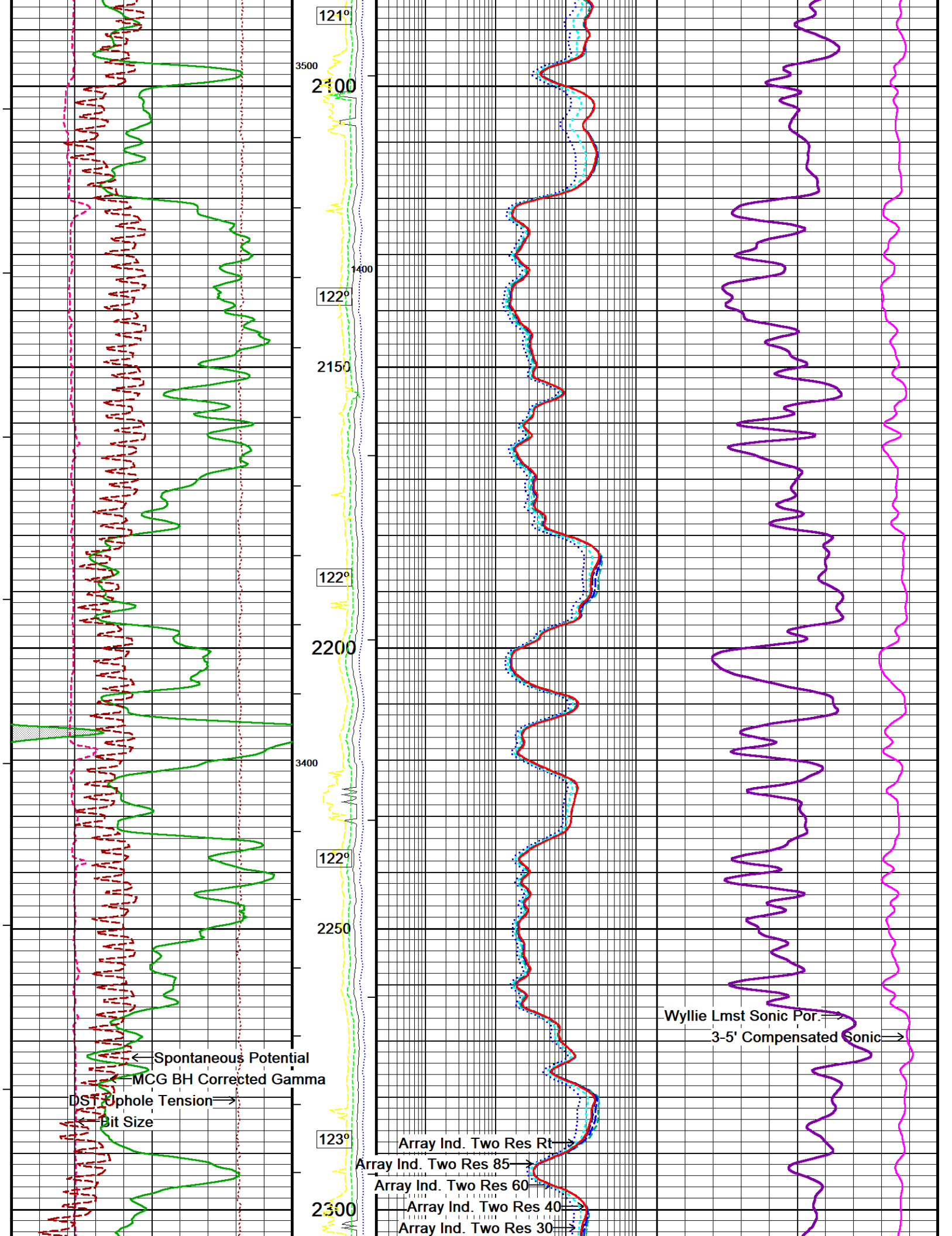
1500
117°
1850
3700


Wyllie Lmst Sonic Por
3-5' Compensated Sonic
Spontaneous Potential
MCG BH Corrected Gamma
DST Uphole Tension
Bit Size
Density Caliper
Array Ind. Two Res Rt
Array Ind. Two Res 85
Array Ind. Two Res 60
Array Ind. Two Res 40
Array Ind. Two Res 30
Array Ind. Two res 20
118°
118°
119°
119°
1900
1950
3600
2000
2050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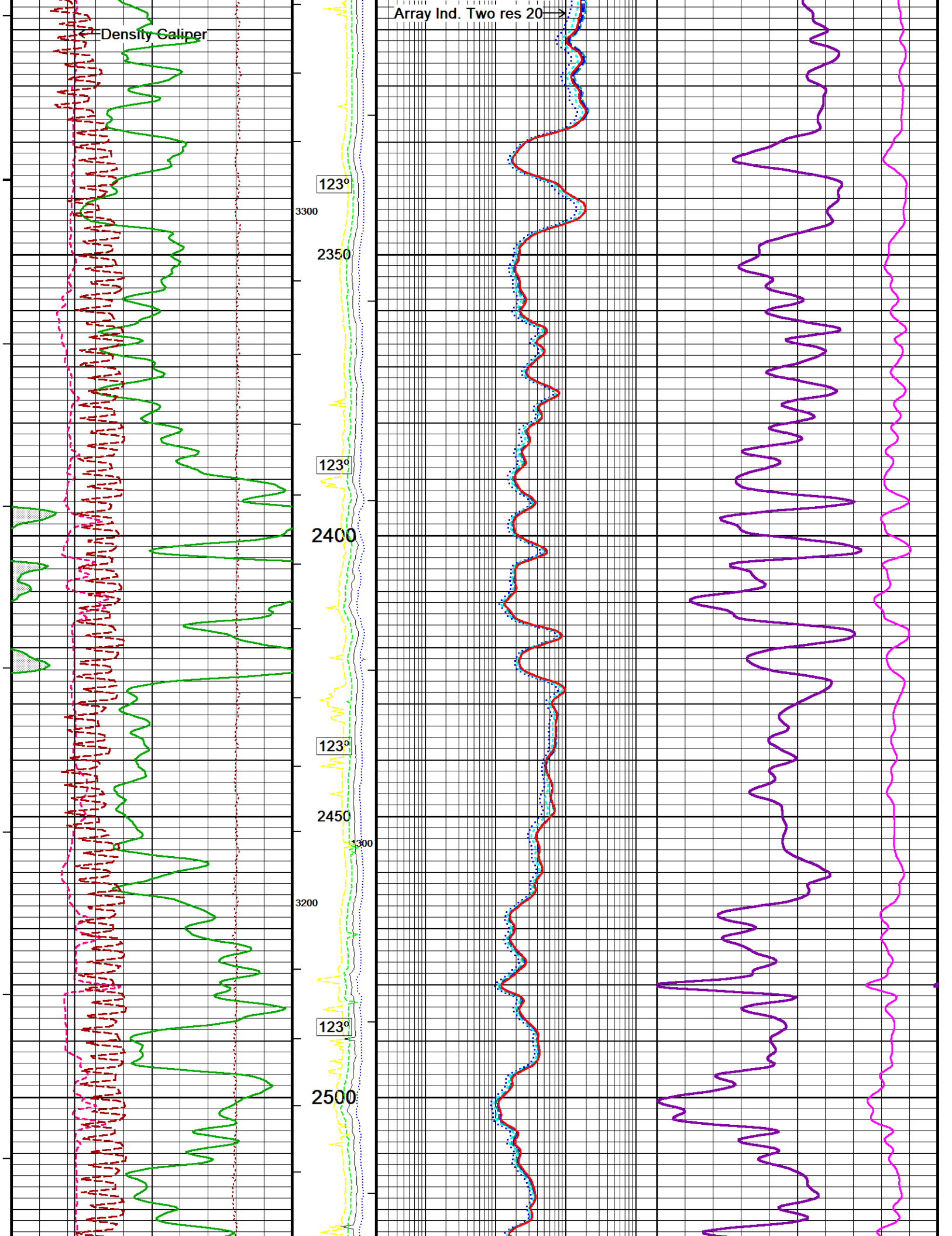
3500
2100
1400
122°
2150
122°
2200
3400
122°
2250
123°
2300
Spontaneous Potential
MCG BH Corrected Gamma
DST Uphole Tension
Bit Size
Array Ind. Two Res Rt
Array Ind. Two Res 85
Array Ind. Two Res 60
Array Ind. Two Res 40
Array Ind. Two Res 30
Wyllie Lmst Sonic Por.
3-5' Compensated Sonic


Density Caliper
Array Ind. Two res 20
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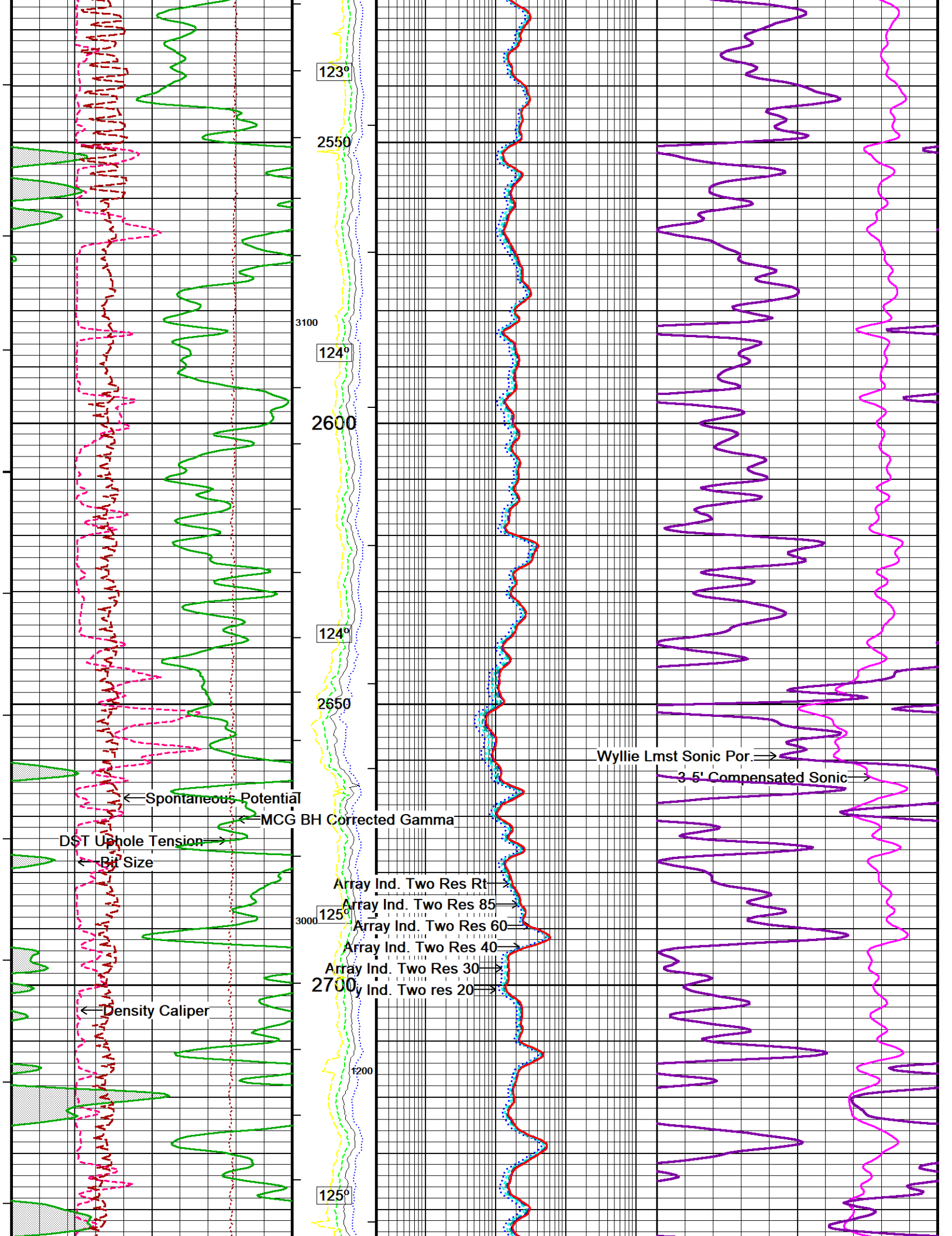
2350
123°
2400
123°
2450
1300
3200
123°
2500


123°
2550
3100
124°
2600
124°
2650
Wyllie Lmst Sonic Por
3-5' Compensated Sonic
Spontaneous Potential
MCG BH Corrected Gamma
DST Uphole Tension
Bit Size
Array Ind. Two Res Rt
Array Ind. Two Res 85
125°
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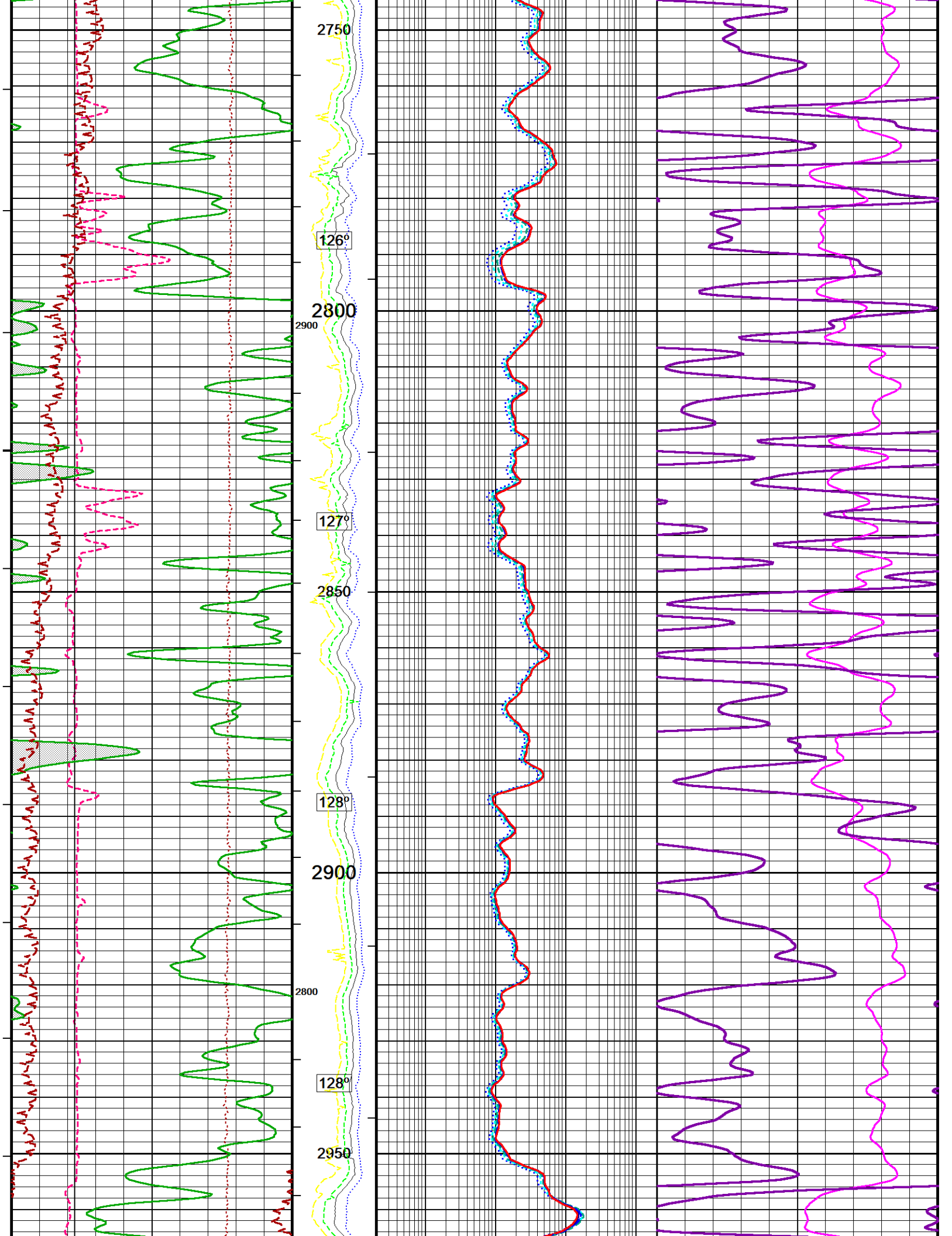
Array Ind. Two Res 60
Array Ind. Two Res 40
Array Ind. Two Res 30
2700
y Ind. Two res 20
Density Caliper
1200
125°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2900
127°
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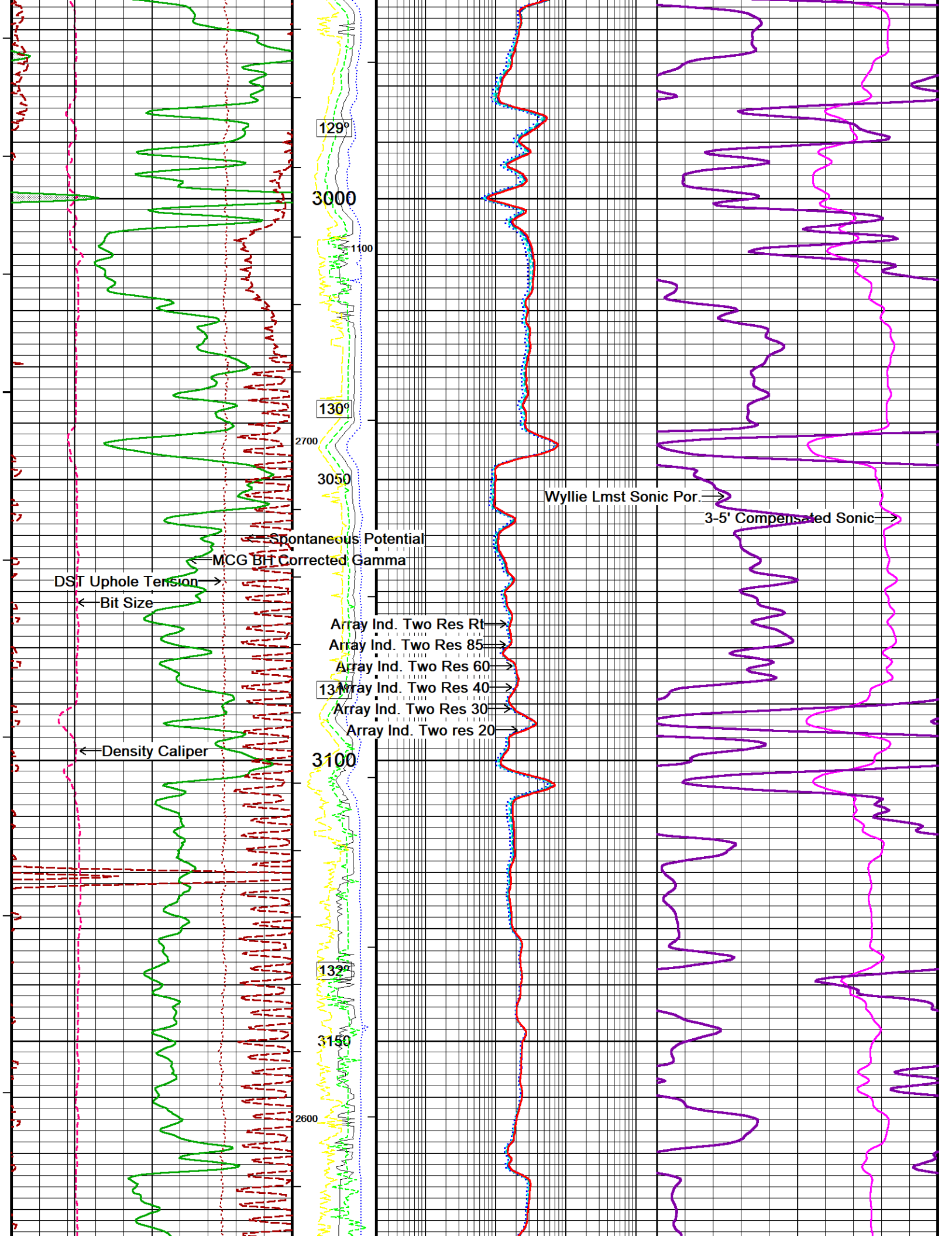
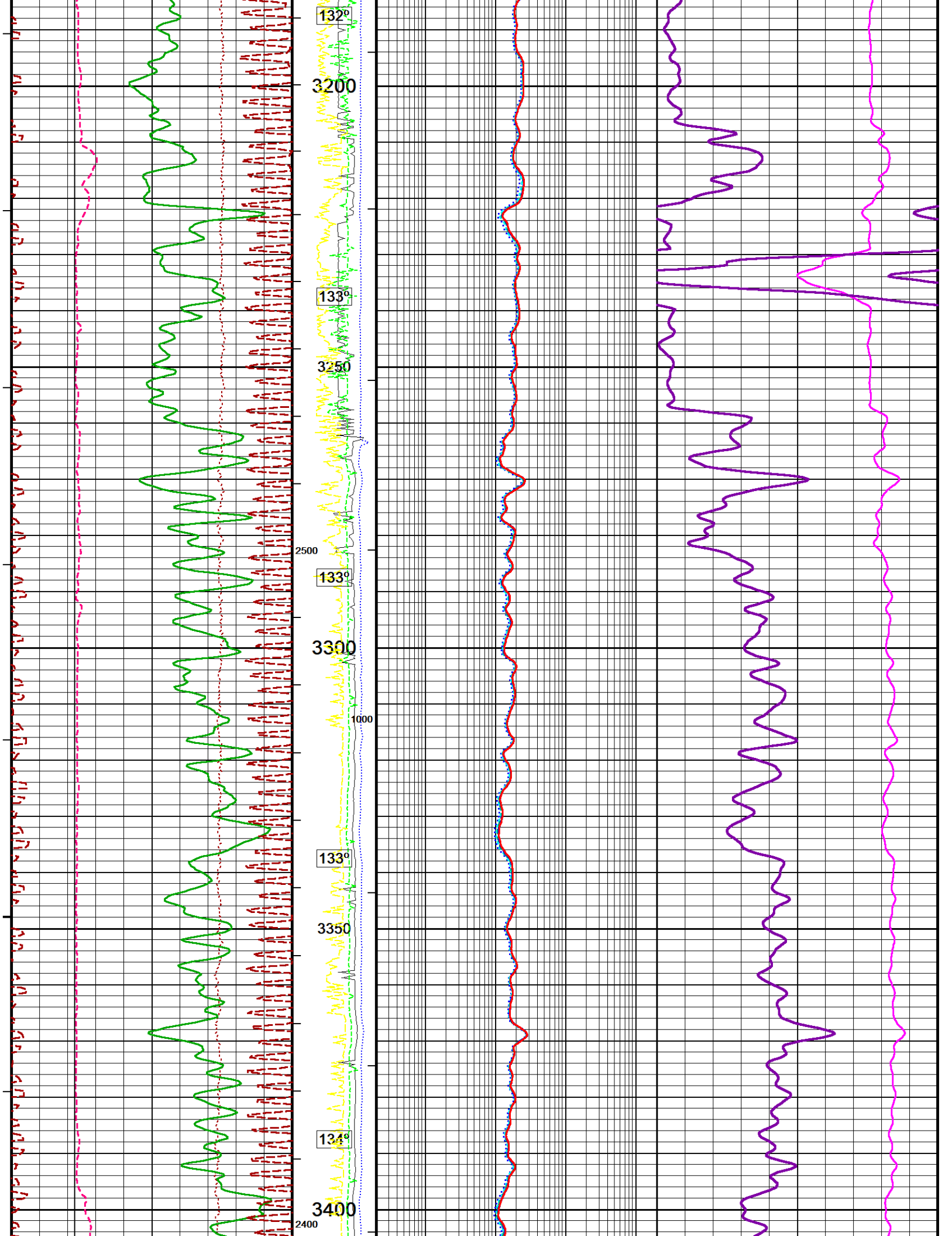
128°
2900
2800
128°
2950


129°
3000
1100
130°
2700
3050
Wyllie Lmst Sonic Por.
3-5' Compensated Sonic
Spontaneous Potential
MCG BH Corrected Gamma
DST Uphole Tension
Bit Size
Array Ind. Two Res Rt
Array Ind. Two Res 85
Array Ind. Two Res 60
Array Ind. Two Res 40
Array Ind. Two Res 30
Array Ind. Two res 20
Density Caliper
3100
132°
3150
2600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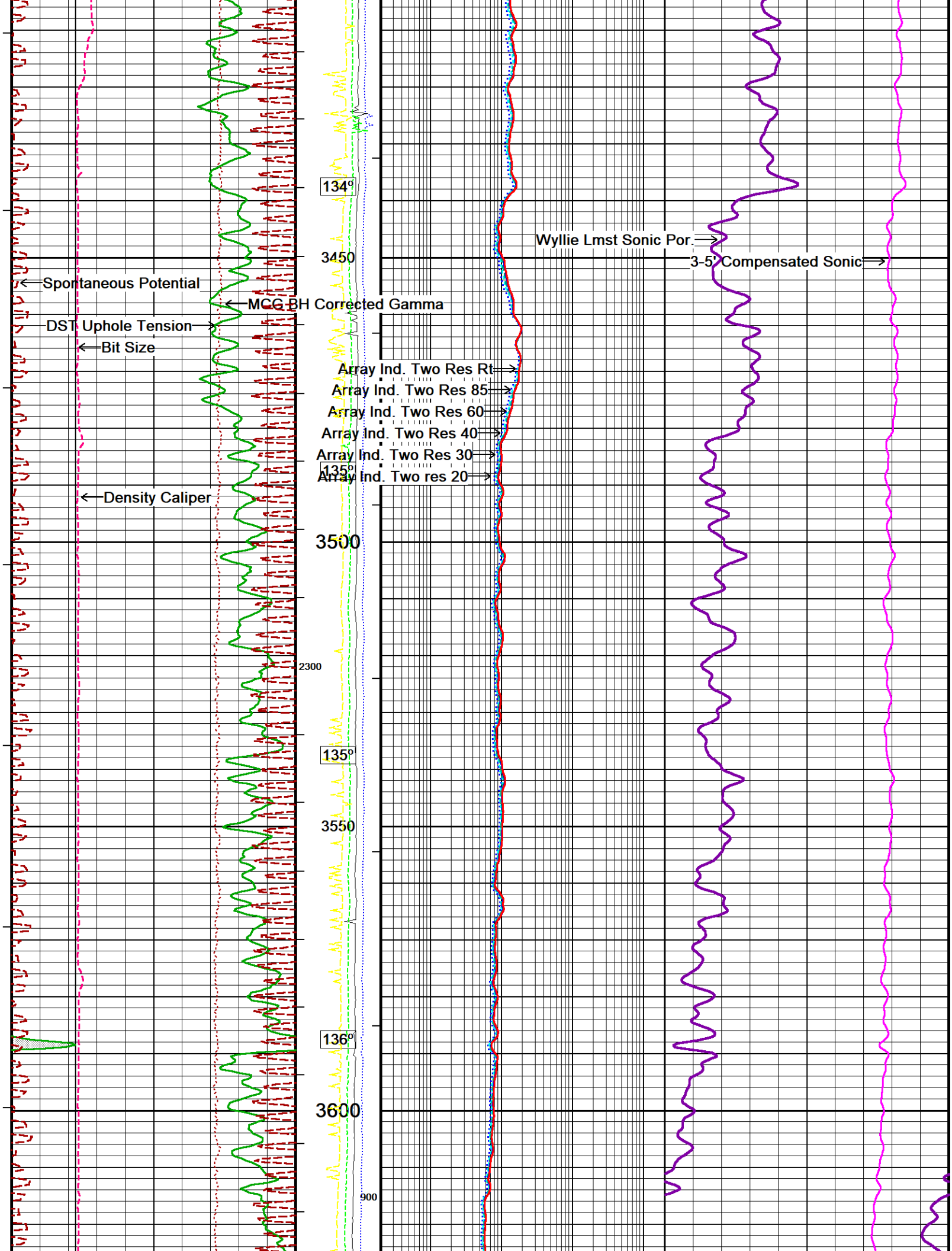
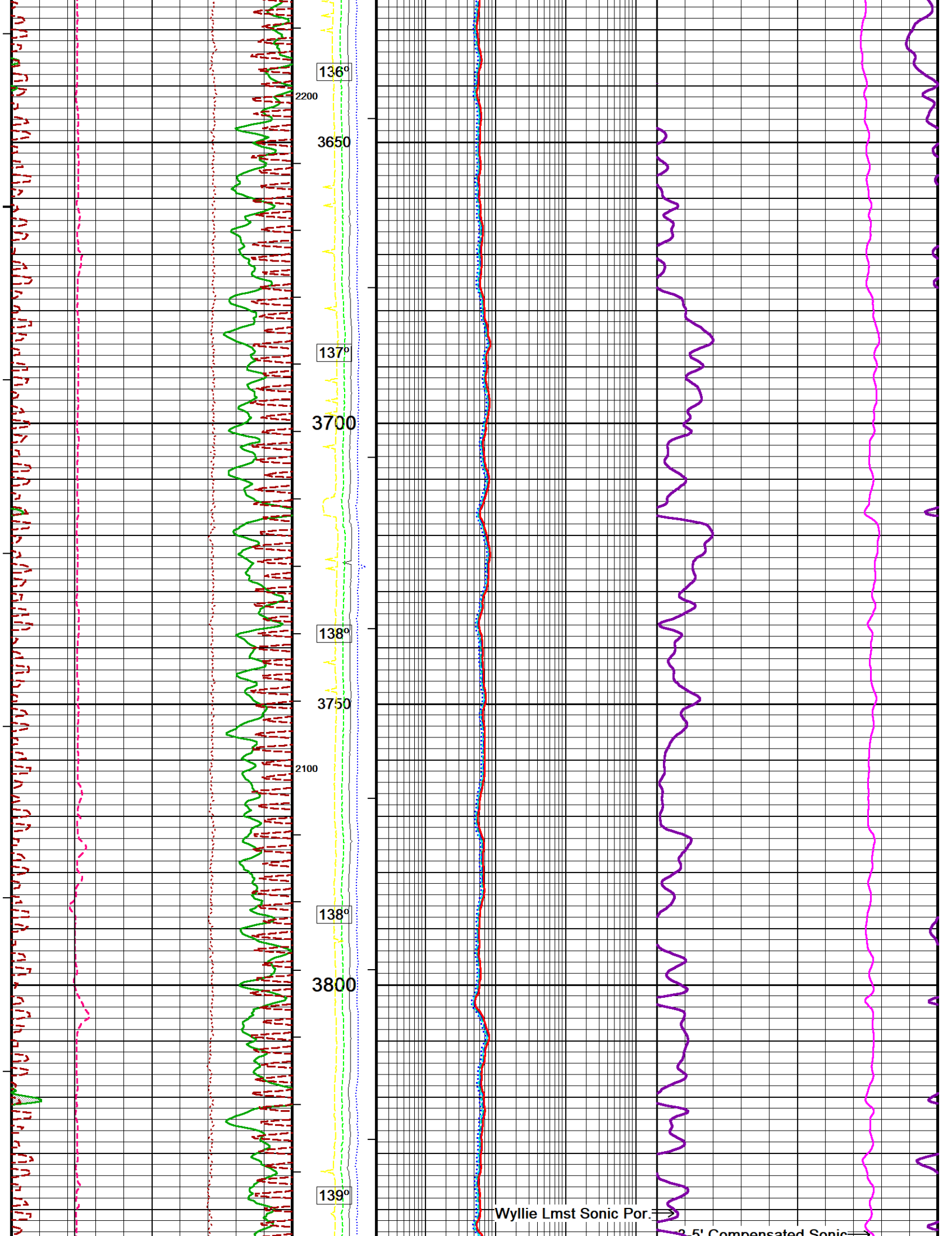
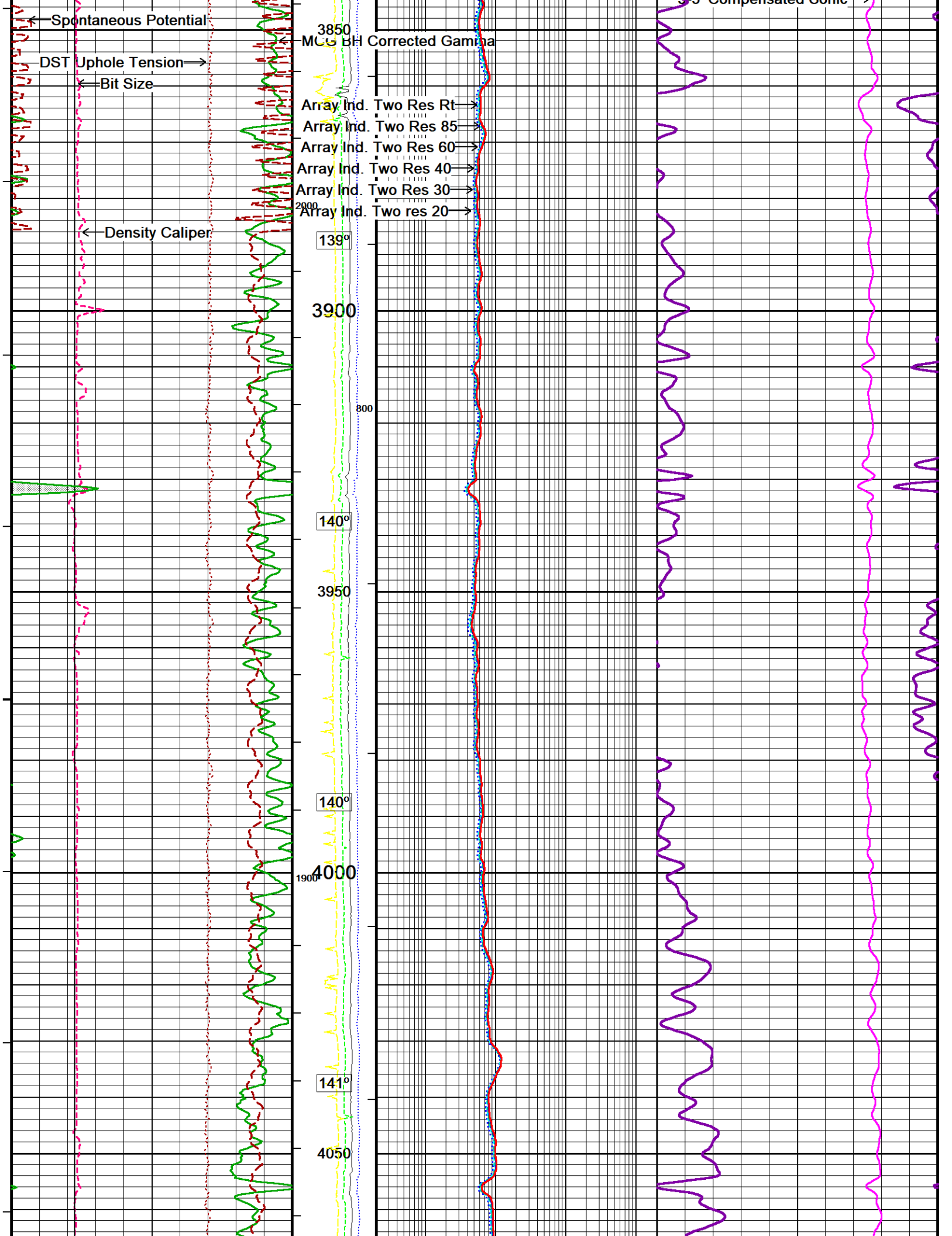
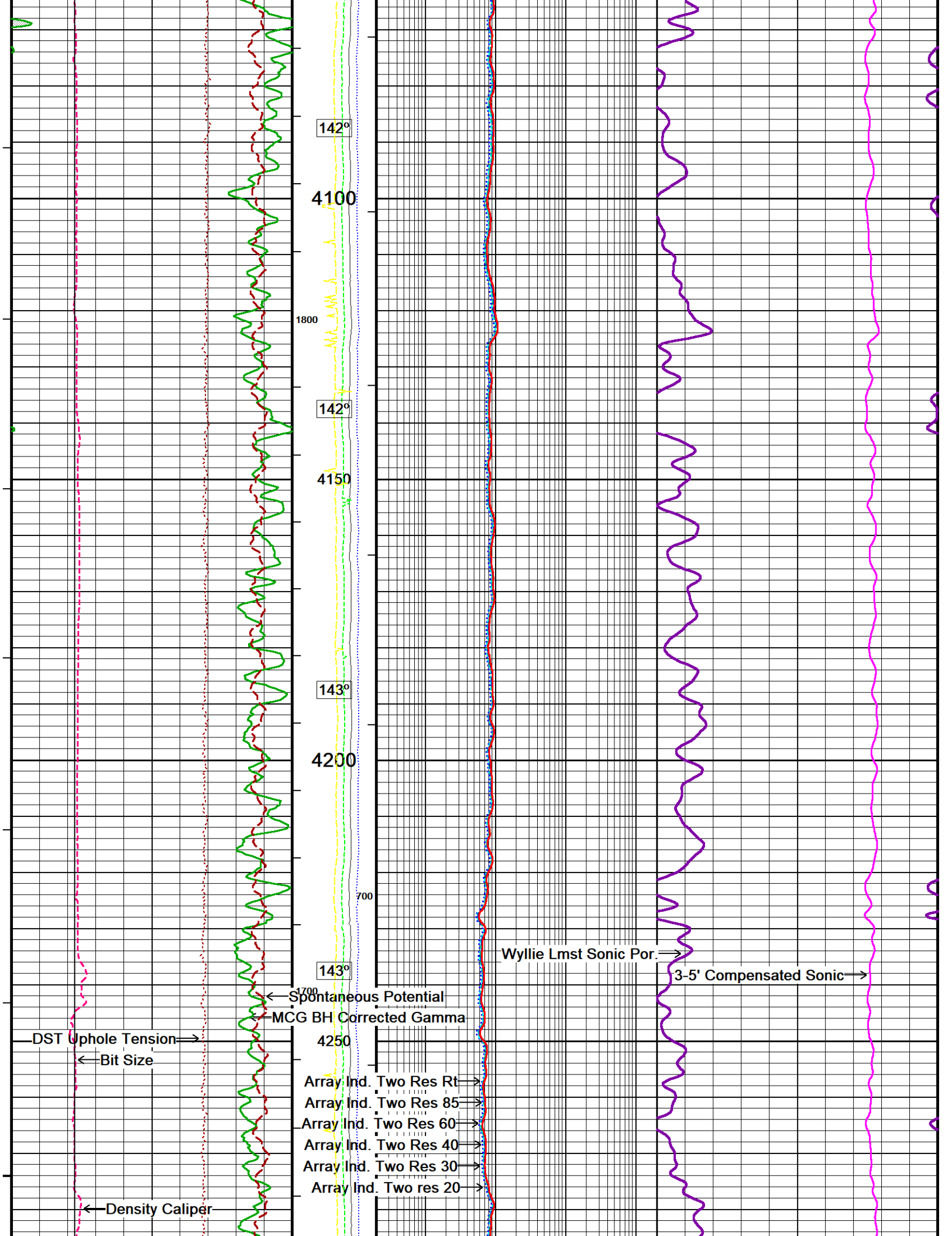
3200
133°
3250
2500
133°
3300
1000
133°
3350
134°
3400
2400


134°
3450
Wyllie Lmst Sonic Por.
3-5' Compensated Sonic
Spontaneous Potential
MCG BH Corrected Gamma
DST Uphole Tension
Bit Size
Array Ind. Two Res Rt
Array Ind. Two Res 85
Array Ind. Two Res 60
Array Ind. Two Res 40
Array Ind. Two Res 30
135°
Array Ind. Two res 20
Density Caliper
3500
2300
135°
3550
136°
3600
900


136°
2200
3650
137°
3700
138°
3750
2100
138°
3800
139°
Wyllie Lmst Sonic Por.
3.5' Compensated Sonic


Spontaneous Potential
DST Uphole Tension
Bit Size
Density Caliper
3850
MCG BH Corrected Gamma
Array Ind. Two Res Rt
Array Ind. Two Res 85
Array Ind. Two Res 60
Array Ind. Two Res 40
Array Ind. Two Res 30
2000
Array Ind. Two res 20
139°
3900
800
140°
3950
140°
1900
4000
141°
4050


142°
4100
1800
142°
4150
143°
4200
700
143°
1700
4250
Wyllie Lmst Sonic Por.
3-5' Compensated Sonic
Spontaneous Potential
MCG BH Corrected Gamma
DST Uphole Tension
Bit Size
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Array Ind. Two Res 85
Array Ind. Two Res 60
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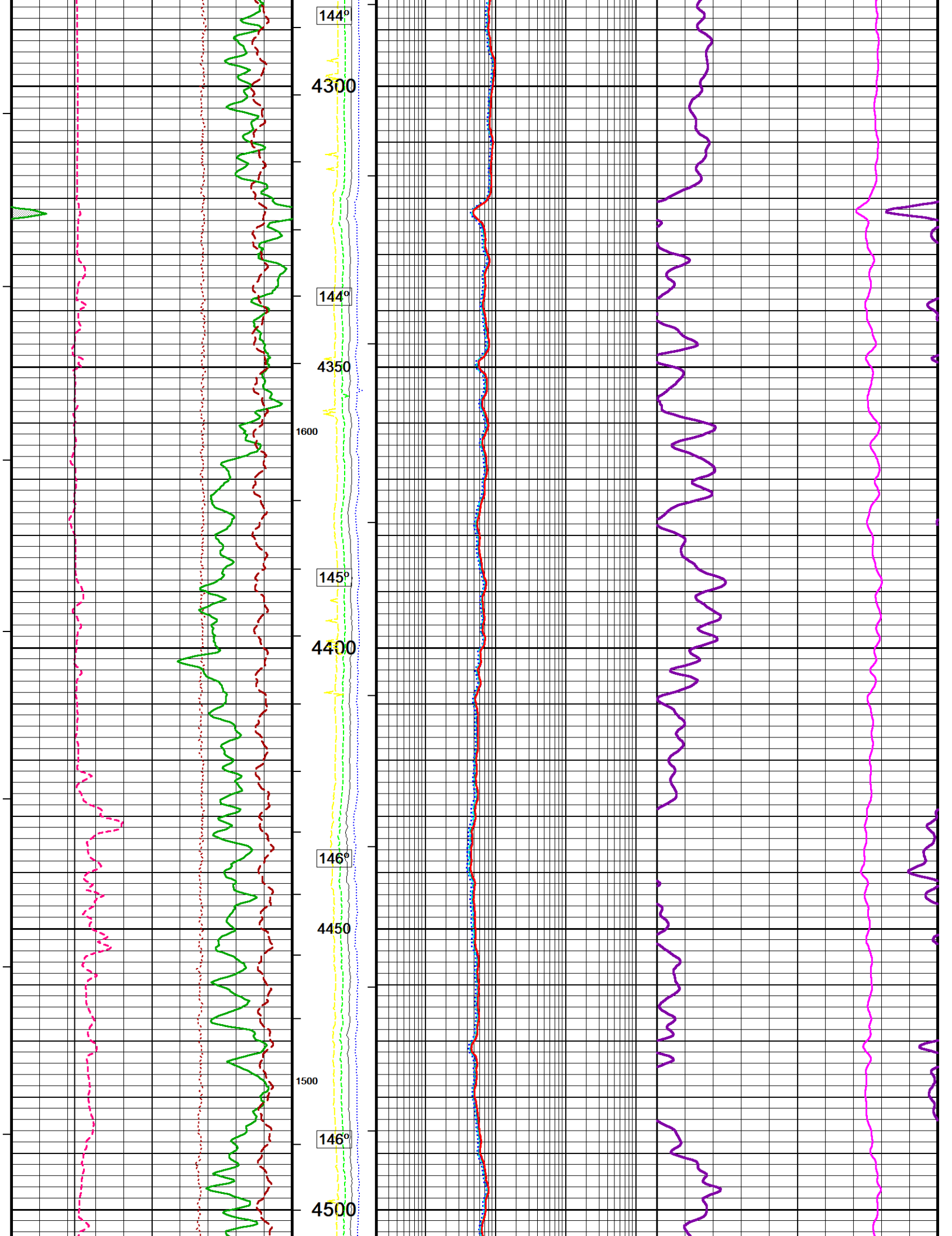
Array Ind. Two Res 30
Array Ind. Two res 20
Density Caliper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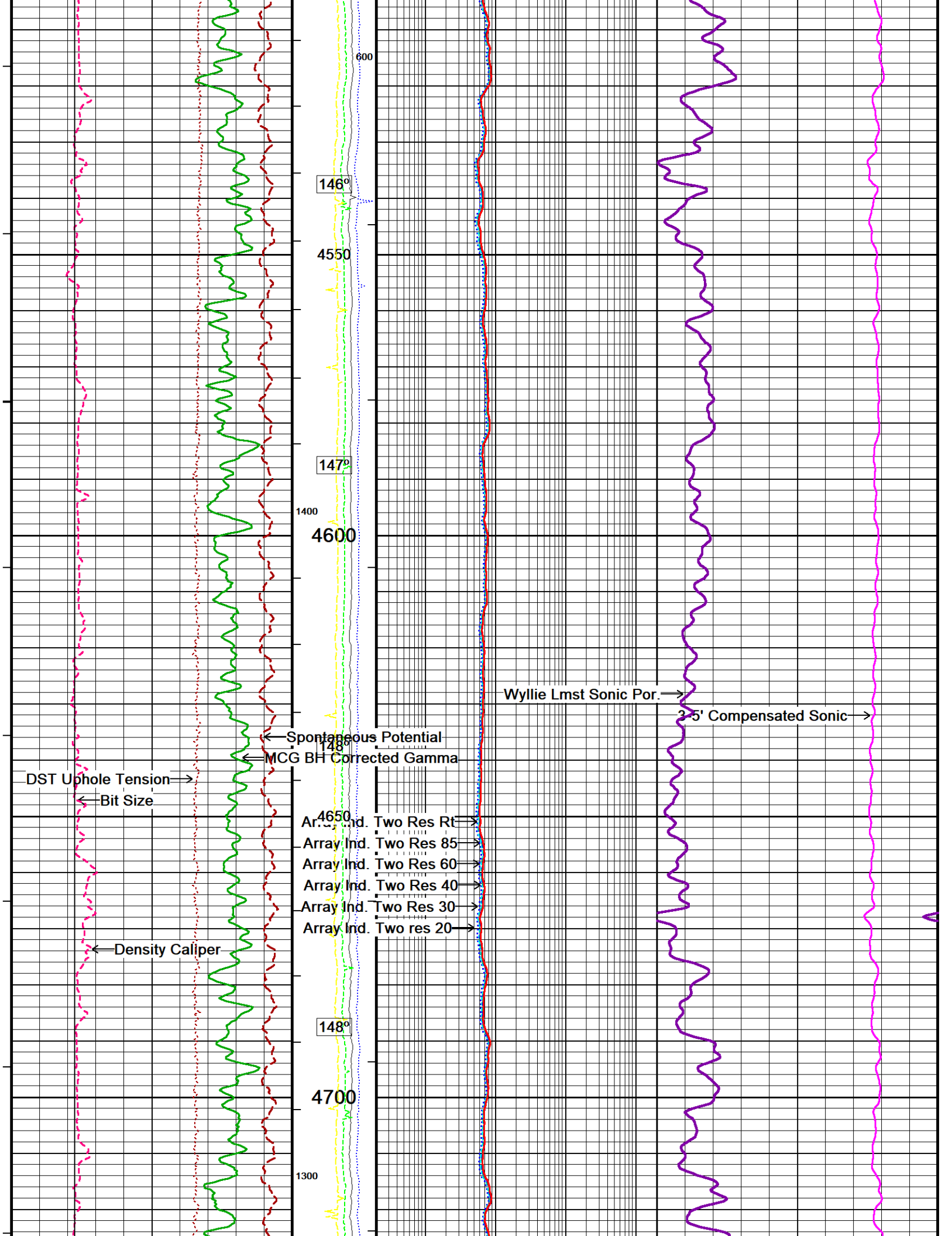
144°
4350
1600
145°
4400
146°
4450
1500
146°
4500


600
146°
4550
147°
1400
4600
Wyllie Lmst Sonic Por.
3-5' Compensated Sonic
Spontaneous Potential
148°
MCG BH Corrected Gamma
DST Uphole Tension
Bit Size
4650
Array Ind. Two Res Rt
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Array Ind. Two Res 40
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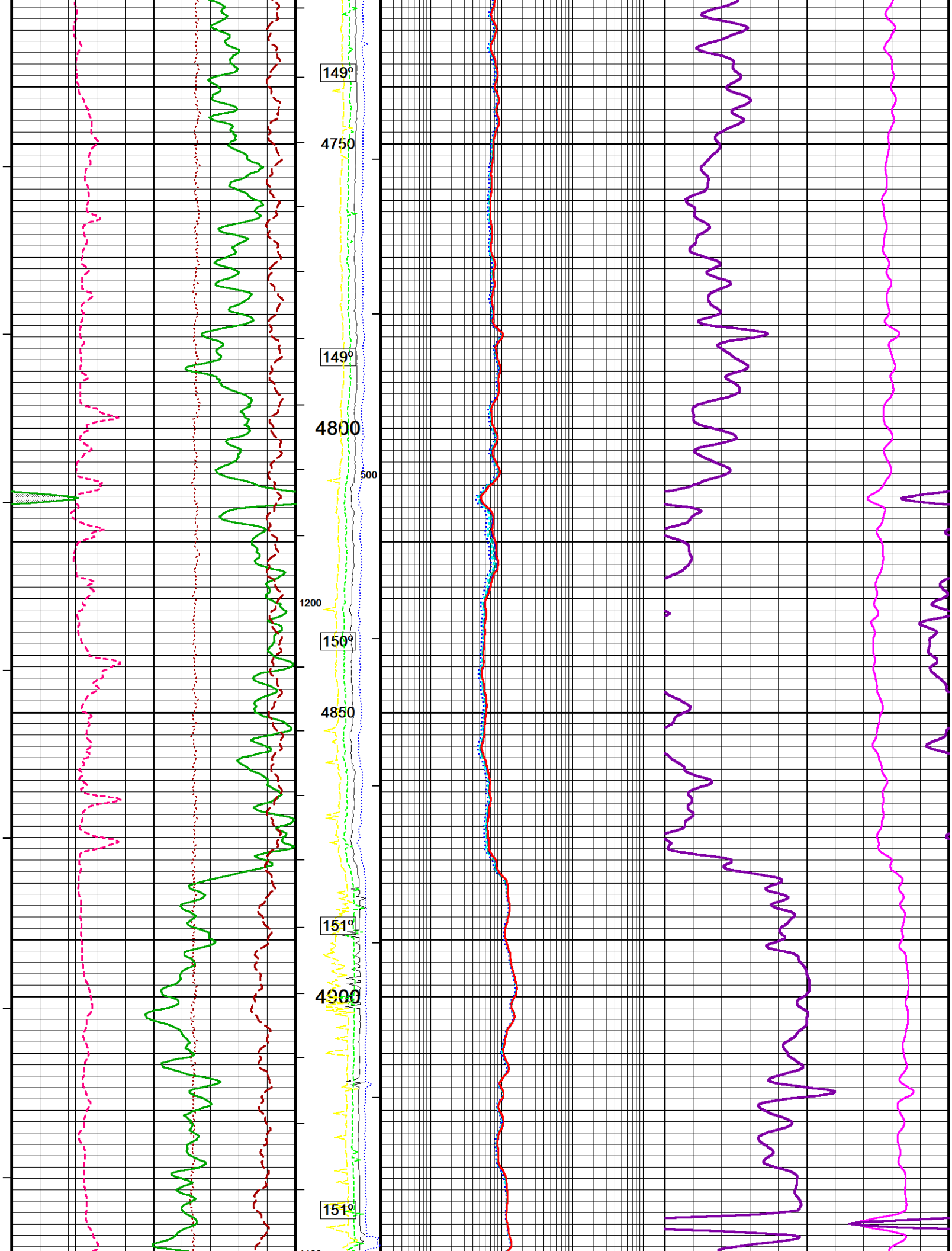
Array Ind. Two res 20
Density Caliper
148°
4700
1300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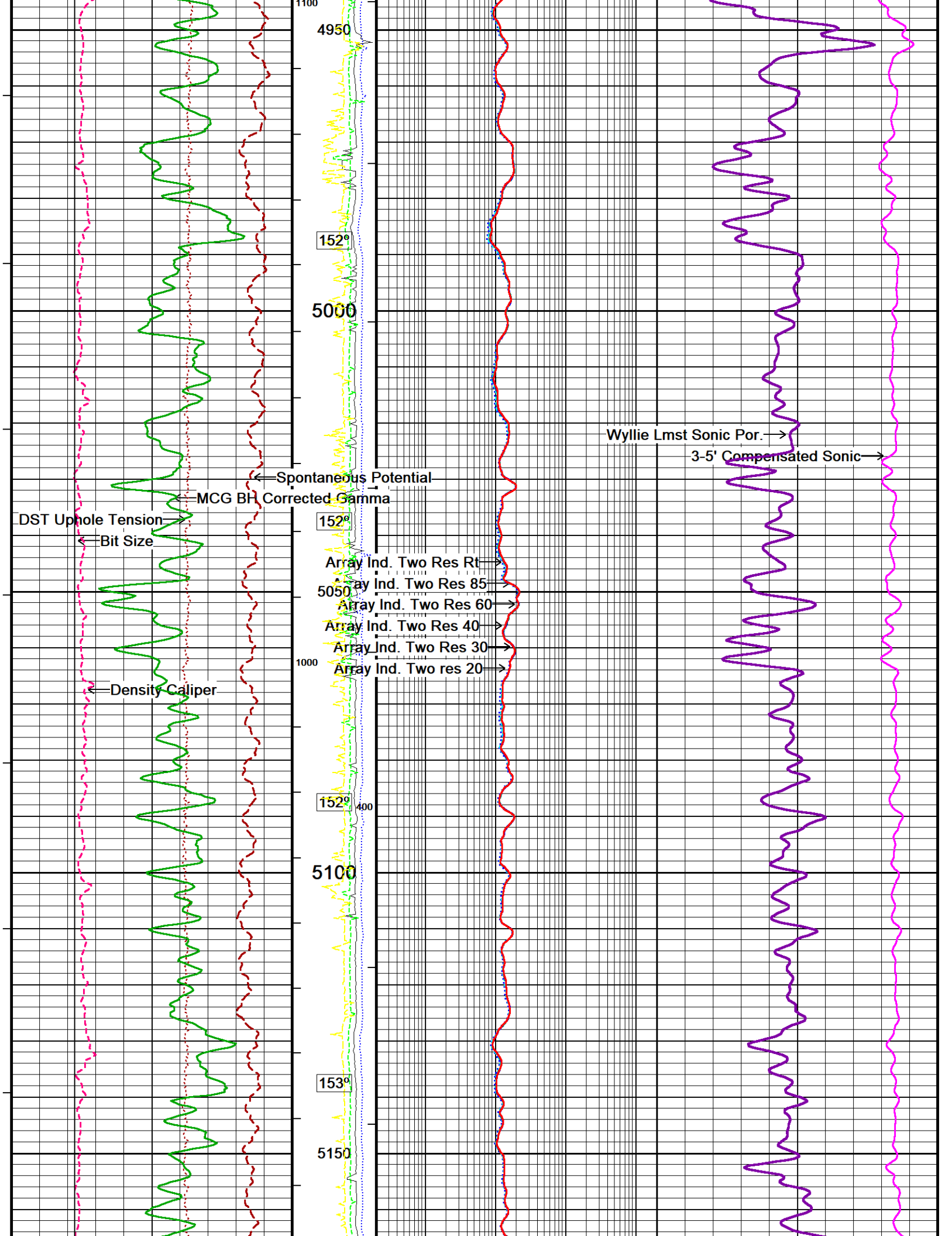
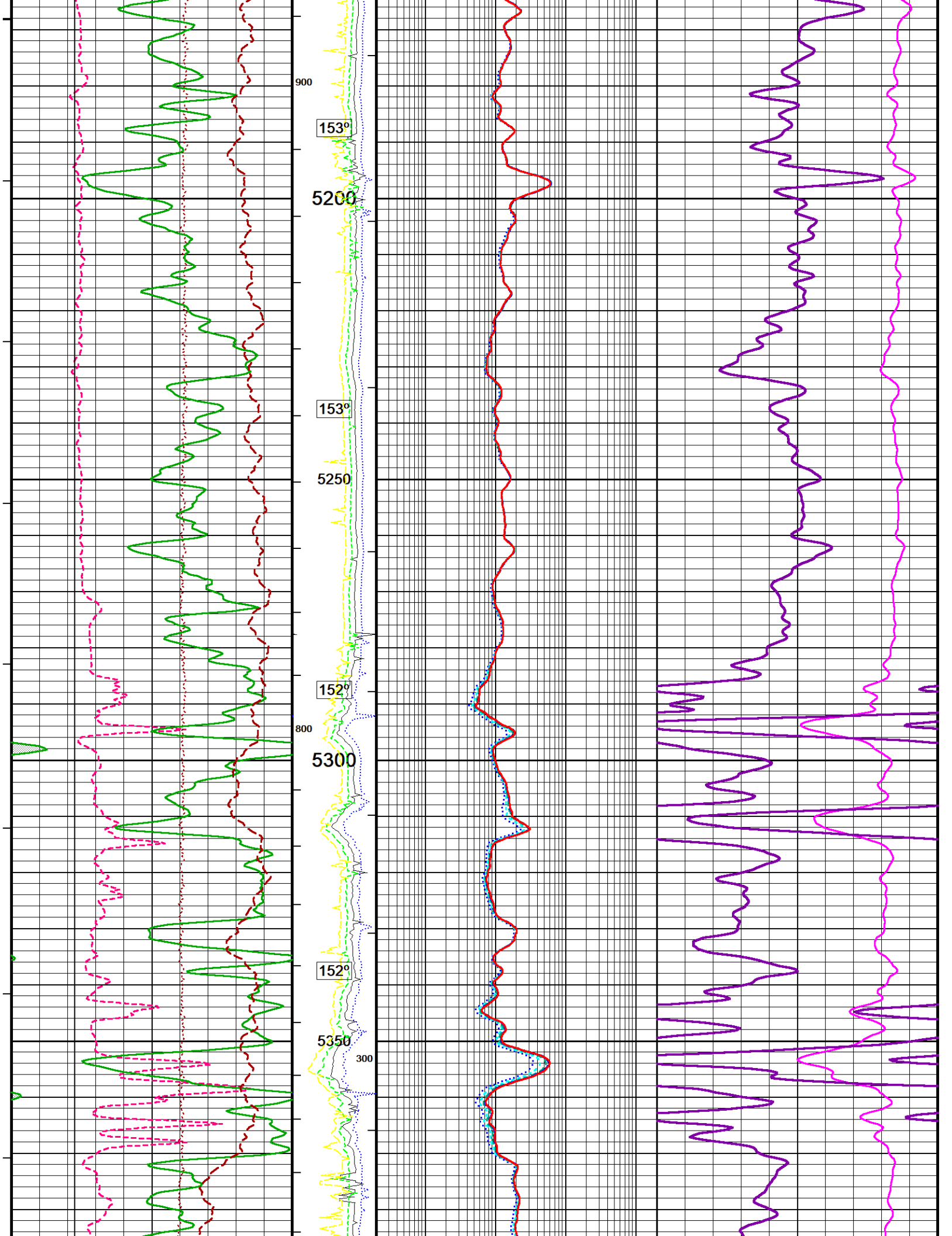
4750
149°
4800
500
1200
150°
4850
151°
4900
151°


1100
4950
152°
5000
Wyllie Lmst Sonic Por.
3-5' Compensated Sonic
Spontaneous Potential
MCG BH Corrected Gamma
DST Uphole Tension
152°
Bit Size
Array Ind. Two Res Rt
Array Ind. Two Res 85
5050
Array Ind. Two Res 60
Array Ind. Two Res 40
Array Ind. Two Res 30
1000
Array Ind. Two res 20
Density Caliper
152°
400
5100
153°
5150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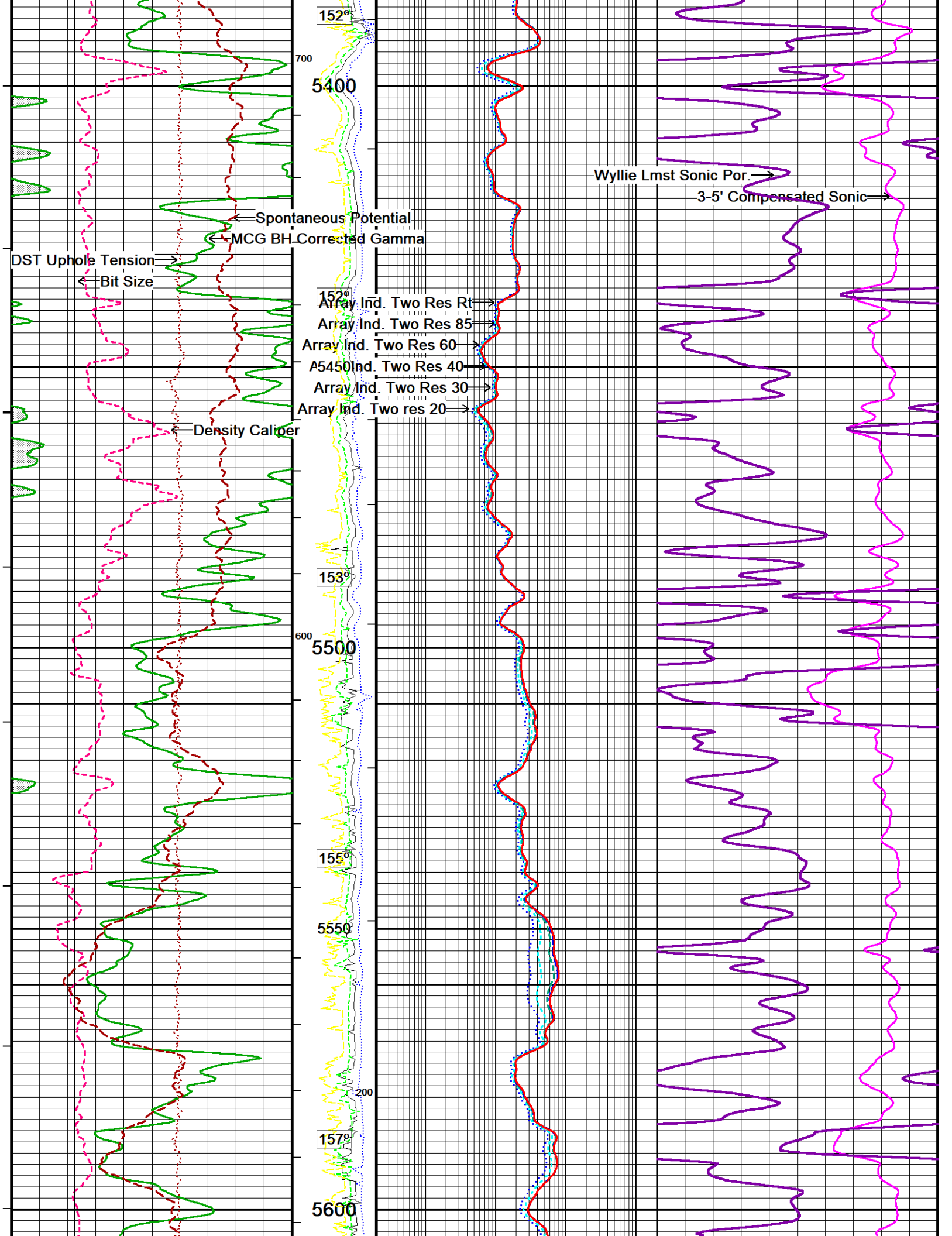
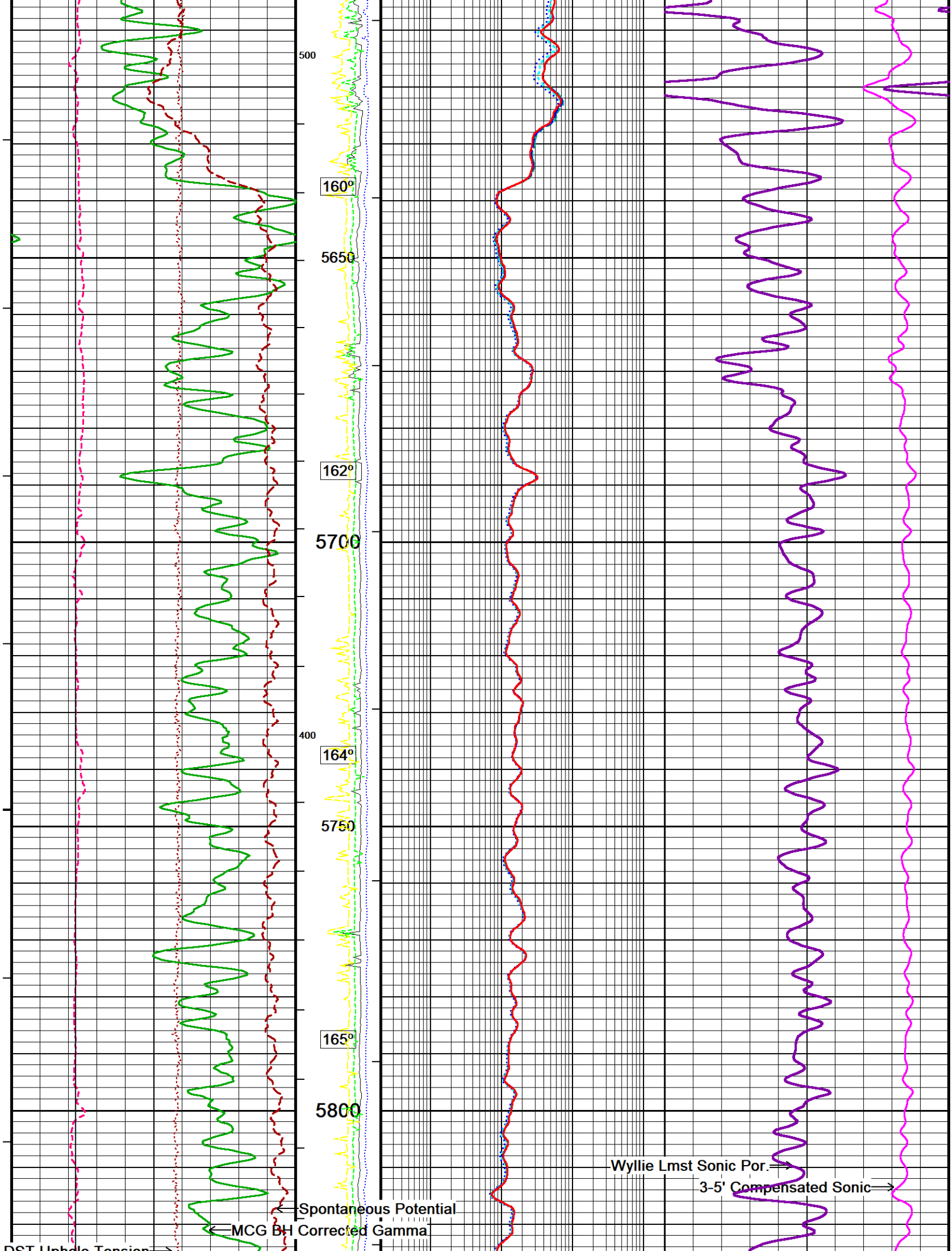
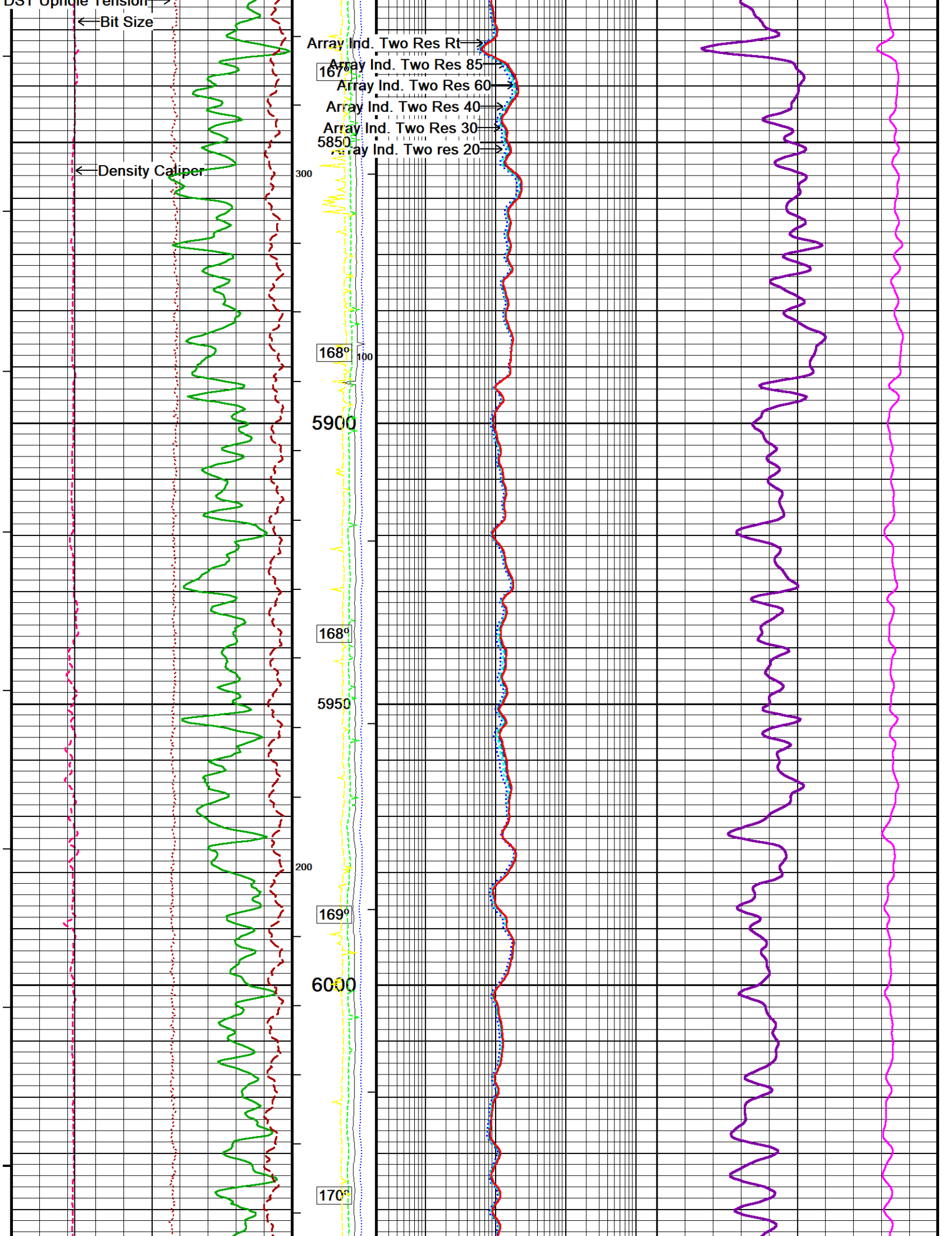

152°
700
5400
Wyllie Lmst Sonic Por.
3-5' Compensated Sonic
Spontaneous Potential
MCG BH Corrected Gamma
DST Uphole Tension
Bit Size
152°
Array Ind. Two Res Rt
Array Ind. Two Res 85
Array Ind. Two Res 60
A5450Ind. Two Res 40
Array Ind. Two Res 30
Array Ind. Two res 20
Density Caliper
153°
600
5500
155°
5550
200
157°
5600


500
160°
5650
162°
5700
400
164°
5750
165°
5800
Wyllie Lmst Sonic Por.
3-5' Compensated Sonic
Spontaneous Potential
MCG BH Corrected Gamma
DST Uphole Tension


DST Uphole Tension
Bit Size
Density Caliper
Array Ind. Two Res Rt
Array Ind. Two Res 85
Array Ind. Two Res 60
Array Ind. Two Res 40
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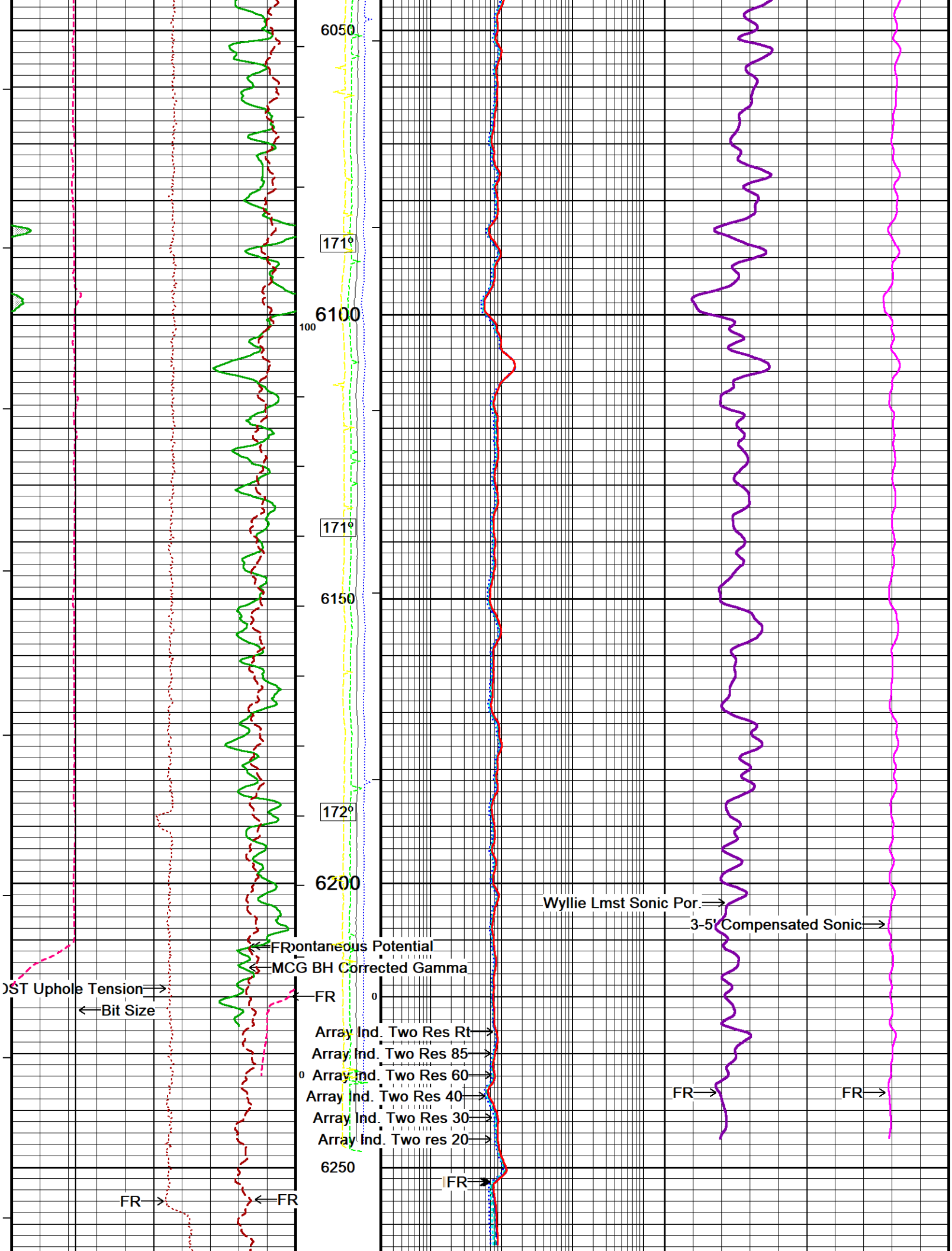
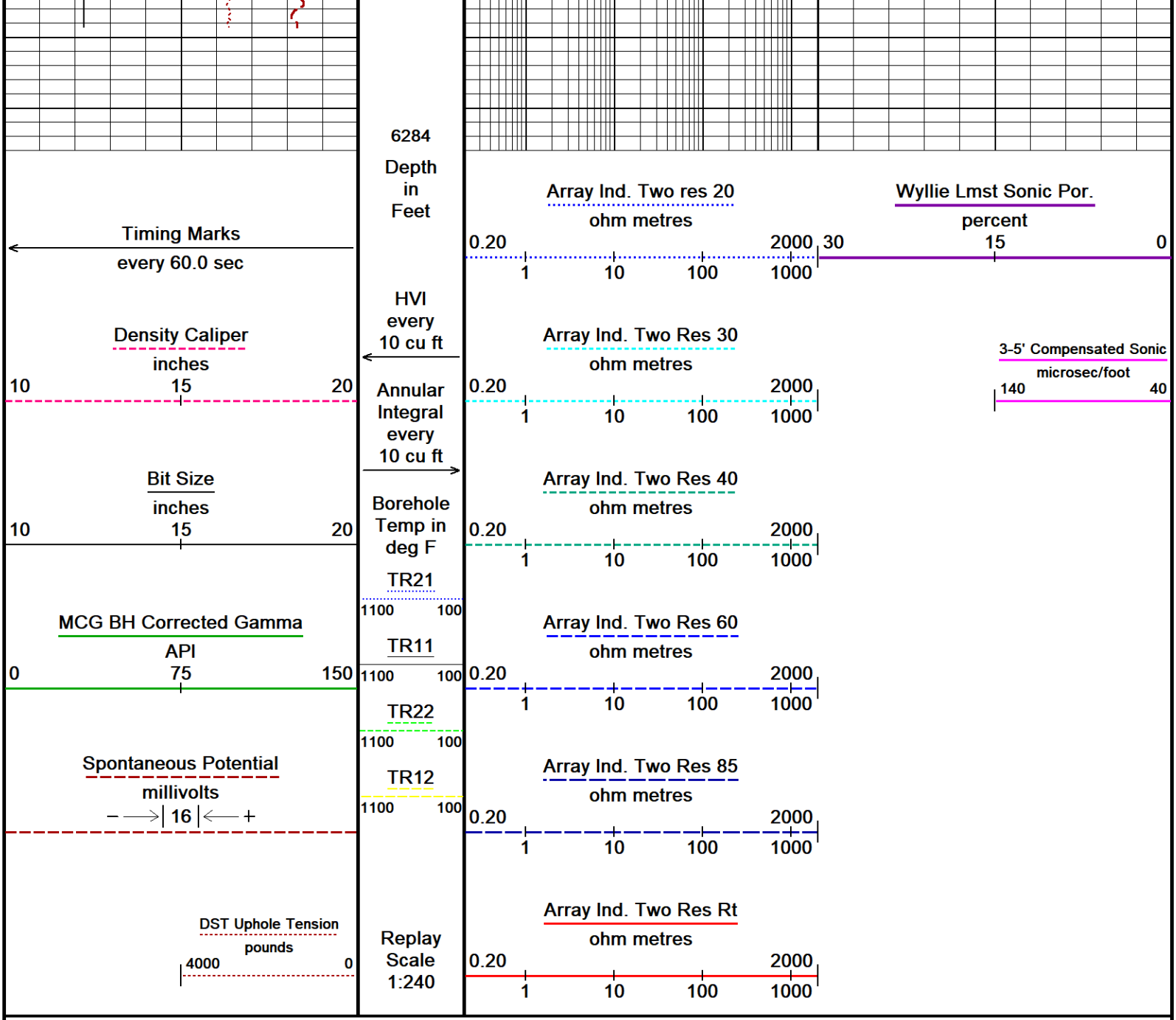
Array Ind. Two res 20
167°
168°
168°
169°
170°
5850
5900
5950
6000
300
100
200


6050
171°
6100
100
171°
6150
172°
6200
Wyllie Lmst Sonic Por.
3-5' Compensated Sonic
FR
Spontaneous Potential
MCG BH Corrected Gamma
DST Uphole Tension
Bit Size
FR
0
Array Ind. Two Res Rt
Array Ind. Two Res 85
0
Array Ind. Two Res 60
Array Ind. Two Res 40
Array Ind. Two Res 30
Array Ind. Two res 20
6250
FR
FR
FR
FR
FR

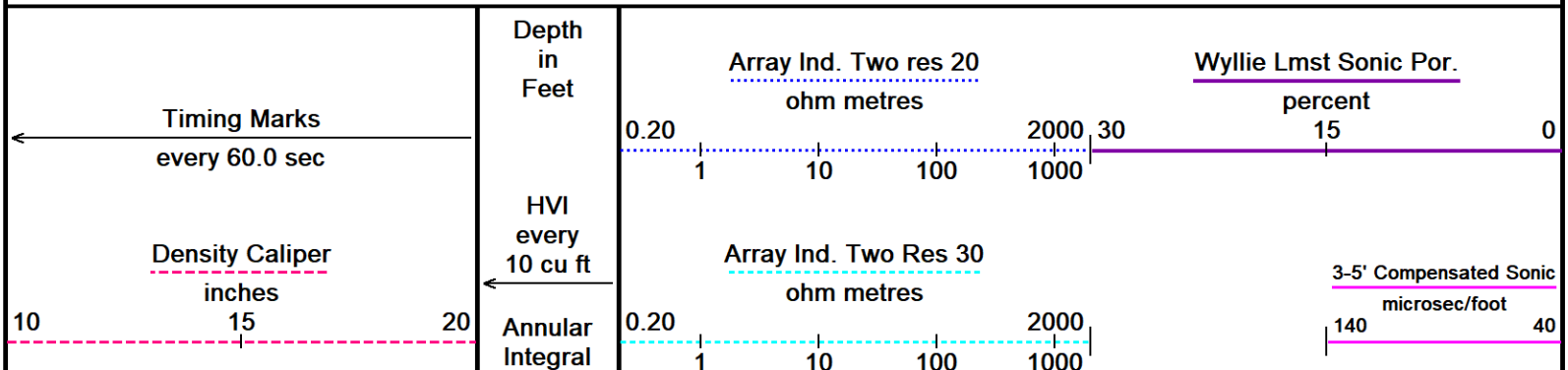


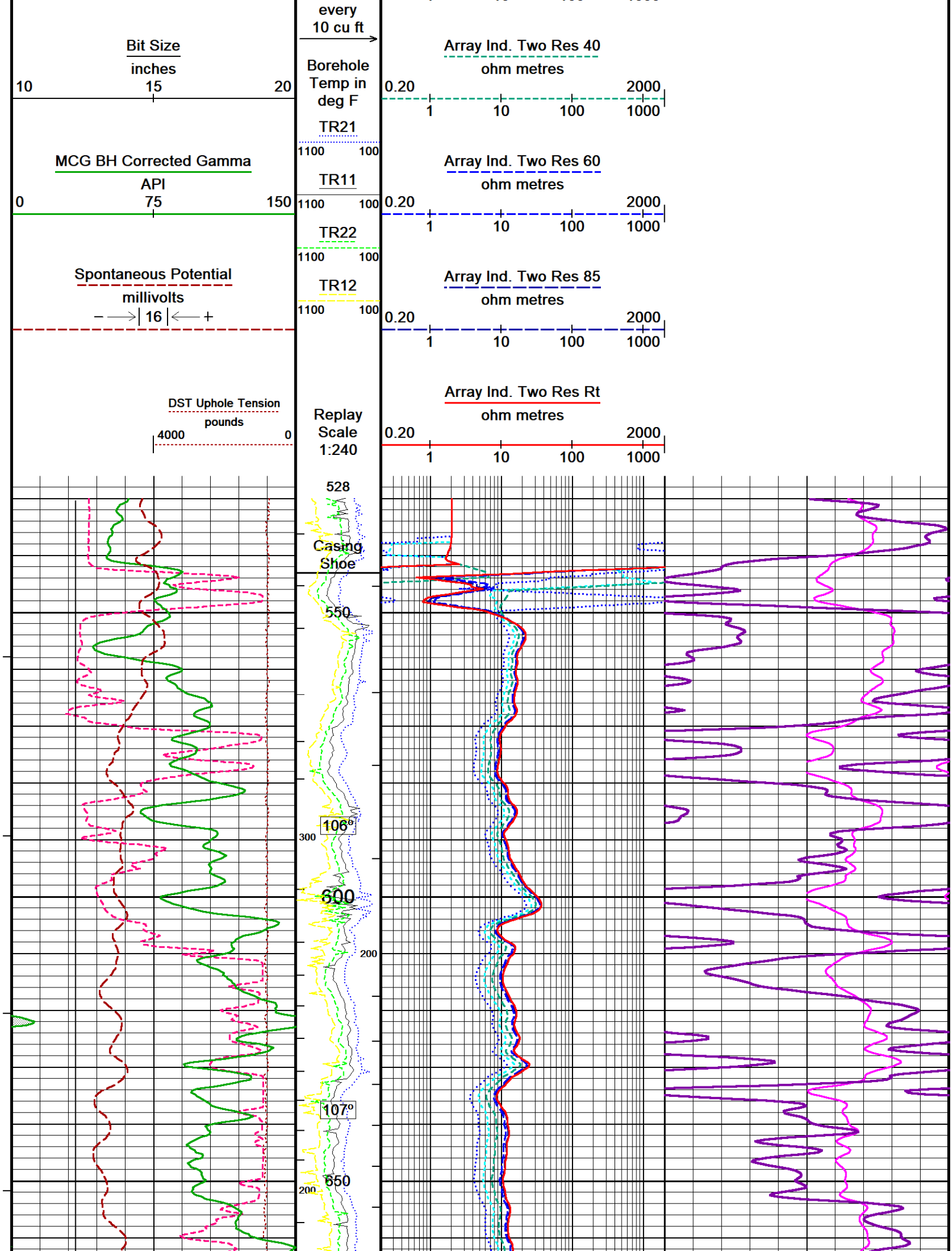
Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 22-AUG-2023 08:21
Filename: C:\LOGS\NUEVIDA RESOURCES\ARDOUREL #3HL\MP.dta
Recorded on 22-AUG-2023 04:38
System Versions: Logged with 21.13.1548 Plotted with 21.13.1548

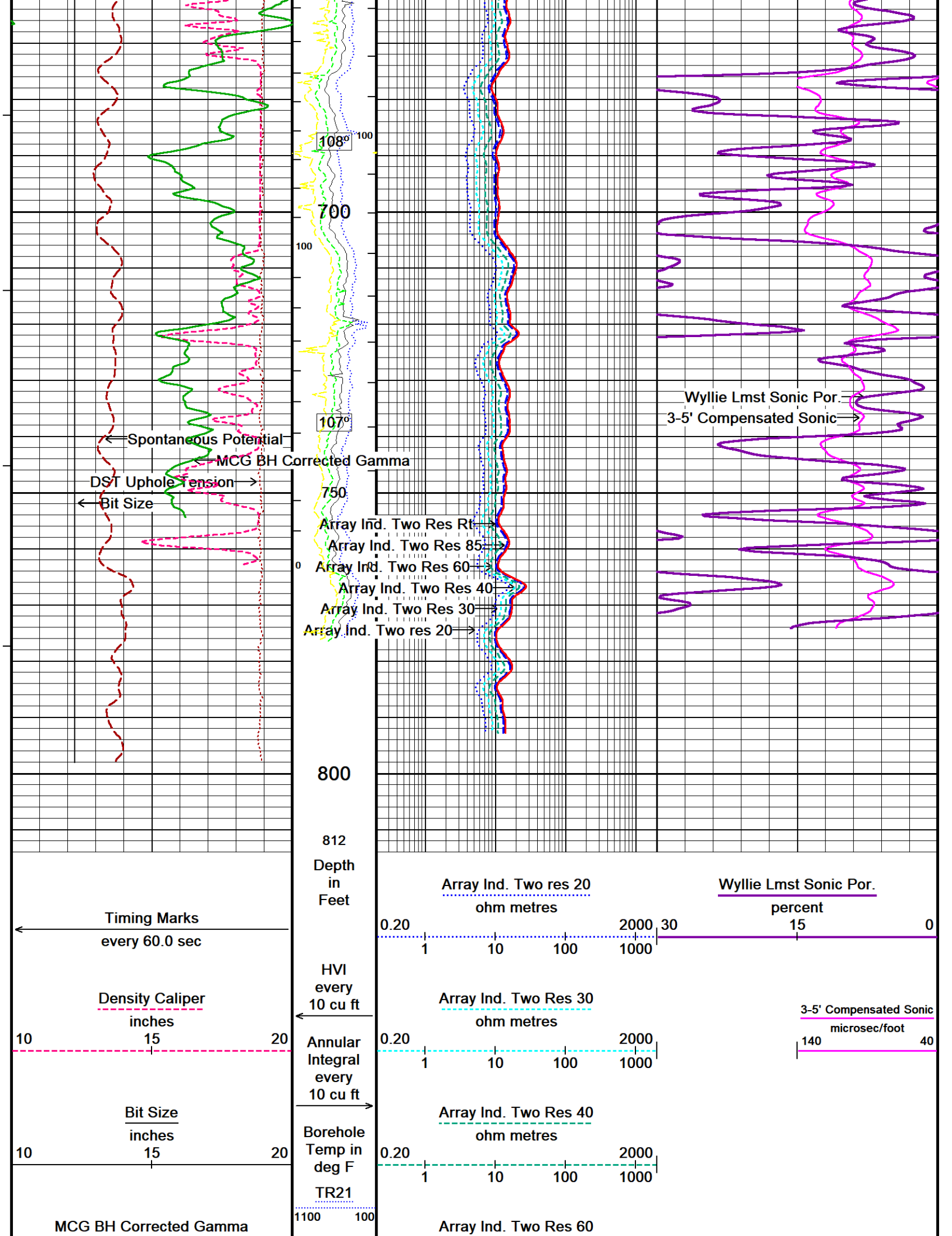
5 INCH MAIN PASS

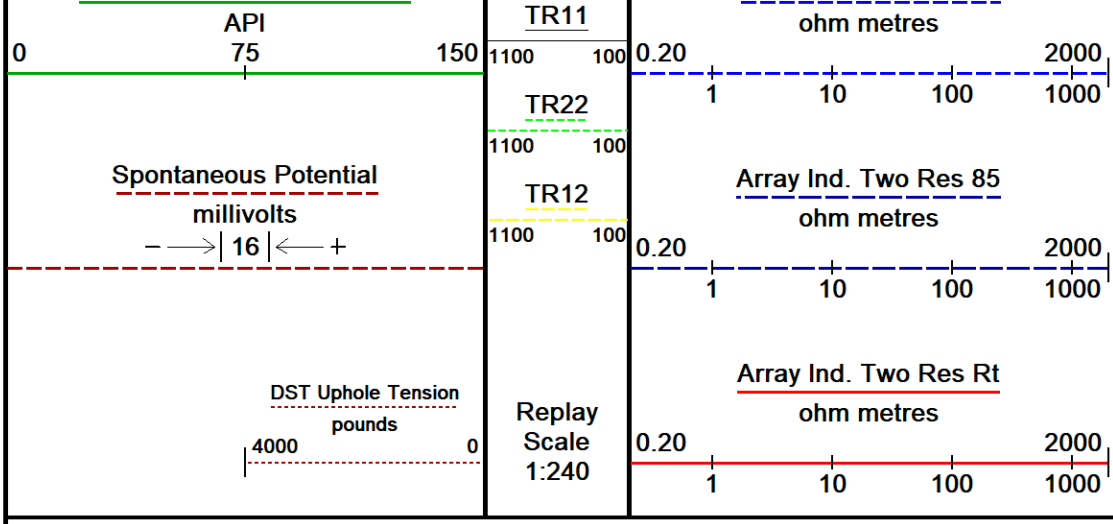
5 INCH REPEAT PASS

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 22-AUG-2023 08:21
Filename: C:\LOGS\NUEVIDA RESOURCES\ARDOUREL #3HL\CC.dta
Recorded on 22-AUG-2023 03:54
System Versions: Logged with 21.13.1548 Plotted with 21.13.1548




every
10 cu ft
Bit Size
inches
10
15
20
Borehole
Temp in
deg F
TR21
1100
100
MCG BH Corrected Gamma
API
0
75
150
TR11
1100
100
TR22
1100
100
Spontaneous Potential
millivolts
16
TR12
1100
100
DST Uphole Tension
pounds
4000
0
Replay
Scale
1:240
Array Ind. Two Res 40
ohm metres
0.20
2000
1
10
100
1000
Array Ind. Two Res 60
ohm metres
0.20
2000
1
10
100
1000
Array Ind. Two Res 85
ohm metres
0.20
2000
1
10
100
1000
Array Ind. Two Res Rt
ohm metres
0.20
2000
1
10
100
1000
528
Casing
Shoe
550
106°
300
600
200
107°
650
200


108°
100
700
100
107°
Spontaneous Potential
MCG BH Corrected Gamma
DST Uphole Tension
Bit Size
750
0
800
812
Depth
in
Feet
Wyllie Lmst Sonic Por.
3-5' Compensated Sonic
Array Ind. Two Res Rt
Array Ind. Two Res 85
Array Ind. Two Res 60
Array Ind. Two Res 40
Array Ind. Two Res 30
Array Ind. Two res 20
Timing Marks
every 60.0 sec
Density Caliper
inches
10
15
20
Bit Size
inches
10
15
20
MCG BH Corrected Gamma
HVI
every
10 cu ft
Annular
Integral
every
10 cu ft
Borehole
Temp in
deg F
TR21
1100
100
Array Ind. Two res 20
ohm metres
0.20
2000
1
10
100
1000
Array Ind. Two Res 30
ohm metres
0.20
2000
1
10
100
1000
Array Ind. Two Res 40
ohm metres
0.20
2000
1
10
100
1000
Array Ind. Two Res 60
Wyllie Lmst Sonic Por.
percent
30
15
0
3-5' Compensated Sonic
microsec/foot
140
40



Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 22-AUG-2023 08:21
Filename: C:\LOGS\NUEVIDA RESOURCES\ARDOUREL #3HL\CC.dta — Recorded on 22-AUG-2023 03:54
System Versions: Logged with 21.13.1548 Plotted with 21.13.1548

5 INCH REPEAT PASS

BEFORE SURVEY CALIBRATION

C:\LOGS\NUEVIDA RESOURCES\ARDOUREL #3HL\MP.dta

General Constants All 000

Last Edited on 22-AUG-2023,02:14

General Parameters		
Mud Resistivity	2.260	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	9.625	inches
Caliper for Differential Caliper	None	
Rwa Parameters		
Porosity used	Base Density Porosity	
Resistivity used	Array Ind. Two Res Rt	
RWA Constant A	0.620	
RWA Constant M	2.150	
SW/APOR Tool Source	0.000	

Gamma Calibration MCG-D.K 486

Field Calibration on 01-AUG-2023 09:35

	Measured	Calibrated (API)
Background	126	85
Calibrator (Gross)	1295	870
Calibrator (Net)	1169	785

Gamma Calibration Tolerances MCG-D.K 486

Ratio 1.489 (1.40 | 1.475 | 1.55) Counts/API

Gamma Constants MCG-D.K 486

Last Edited on 22-AUG-2023,03:51

Gamma Calibrator Number	GRCC287	
GRC-M Calibrator Jig in Use?	NO	
Inactive Background Jig in Use?	NO	
Mud Density	1.07	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Potassium Equivalence	Chloride	
K Mud Concentration	0.00	%

High Resolution Temperature Calibration MCG-D.K 486

Field Calibration on 05-AUG-2023,04:56

	Measured	Calibrated(Deg F)
Lower	0.00	0.00
Upper	100.00	100.00

High Resolution Temperature Constants MCG-D.K 486

Last Edited on 05-AUG-2023,04:56

Pre-filter Length	11

Sonic Constants MSS-D.A 415

Maximum Boundary Contrast	70.00	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	
Correction for Sonde Skew	Applied	
Cycle Stretch Algorithm	Applied	
MN3FT	0.00	micro-sec
MX3FT	1500.00	micro-sec
Hunt-Raymer Constant	83.12	micro-sec/ft
Sonde Mode	Compensated	
Hole Type	Open Hole	

Sonde Parameters

	Measured	Calibrated
Offset		0.0000
Free Pipe	0.0000	

Peak Amplitude Source

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)	Depth (m)
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	0.00	0.00
0.00	0.00	0.00	

Full Waveform Parameters

Use 3' Waveform to derive TR	No	
Use 4' Waveform to derive TR	No	
Use 5' Waveform to derive TR	No	
Use 6' Waveform to derive TR	No	
3' Waveform Discriminator Level	0.30	mV
4' Waveform Discriminator Level	0.30	mV
5' Waveform Discriminator Level	0.15	mV
6' Waveform Discriminator Level	0.15	mV
Waveform Discriminator Filter	Not Applied	
Semblance Window Width	150.00	micro-sec
Semblance Processing Enabled	Yes	
Tracking Boxes Enabled In Processing	Yes	

Induction Calibration MAI-C.A 482

Factory Loop Calibration 25-SEP-2012,17:44
Field Check on 27-JUN-2022 10:32

Factory Loop Calibration

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

	Measured Signal (unitless)		Reference Conductivity (mmho/m)		Calibration	
Array	Low	High	Low	High	Gain	Offset

Array	Low	High	Low	High	Gain	Offset
1 (near)	16.2	461.2	9.3	966.2	2.150	-25.6
2	5.6	374.0	7.6	821.4	2.209	-4.8
3	3.1	250.7	5.2	566.0	2.265	-1.7
4 (far)	1.0	132.3	2.6	279.2	2.107	0.4

Array Temperature 75.6 Deg F

Tool Checks 17-SEP-2021 14:05

Array	Factory Reference (mmho/m) Low	Factory Reference (mmho/m) High	Before Survey (mmho/m) Low	Before Survey (mmho/m) High
1 (near)	-4.0	2087.2	-4.6	2086.4
2	14.8	1918.7	14.3	1917.9
3	15.4	1681.1	15.0	1680.5
4 (far)	11.7	1108.0	11.4	1107.6
Array Temperature		77.8		87.4 Deg F

Tool Zero Corrections

Array		
1 (near)	0.0	mmho/m
2	0.0	mmho/m
3	0.0	mmho/m
4 (far)	0.0	mmho/m

Induction Check Tolerances MAI-C.A 482

Low Array 1	-4.6	-5.5 / -4.0 / -2.5	mmho/m	High Array 1	2086.4	-0.5% / 2087.2 / +0.5% mmho/m
Low Array 2	14.3	13.3 / 14.8 / 16.3	mmho/m	High Array 2	1917.9	-0.5% / 1918.7 / +0.5% mmho/m
Low Array 3	15.0	13.9 / 15.4 / 16.9	mmho/m	High Array 3	1680.5	-0.5% / 1681.1 / +0.5% mmho/m
Low Array 4	11.4	10.2 / 11.7 / 13.2	mmho/m	High Array 4	1107.6	-0.5% / 1108.0 / +0.5% mmho/m

Induction Constants MAI-C.A 482

Last Edited on 22-AUG-2023,02:14

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	6.0000	
Stand-off Fin Angle	60.00	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-D.A 460

Base Calibration on 06-JUN-2023 12:59
Field Calibration on 06-JUN-2023 13:00

Base Calibration

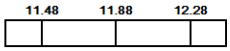
Reading No	Measured	Calibrator Size (in)
1	12790	4.00
2	19272	5.96
3	25879	7.97
4	32112	9.84
5	39209	11.88
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
11.88	11.88

Caliper Calibration Tolerances MPD-D.A 460

Long Arm Field Cal. 11.88 in



DOWNHOLE EQUIPMENT

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Cablehead, 11 pin
CBH-CC 392 LG: 2.40 ft WT: 24.3 lb OD: 2.240 in

11C-11B Compact Tool Adaptor
MTA-K.B 306 LG: 1.53 ft WT: 13.2 lb OD: 2.240 in

Compact Swivel Head Adaptor
SHA-J.B 508 LG: 2.30 ft WT: 22.0 lb OD: 2.244 in

Compact Comms Gamma
MCG-D.K 486 LG: 8.70 ft WT: 63.9 lb OD: 2.244 in

Compact Density/Caliper
MPD-D.A 460 LG: 9.59 ft WT: 90.4 lb OD: 2.913 in

Compact Knuckle Joint
SKJ-E.B 654 LG: 2.17 ft WT: 24.3 lb OD: 2.244 in

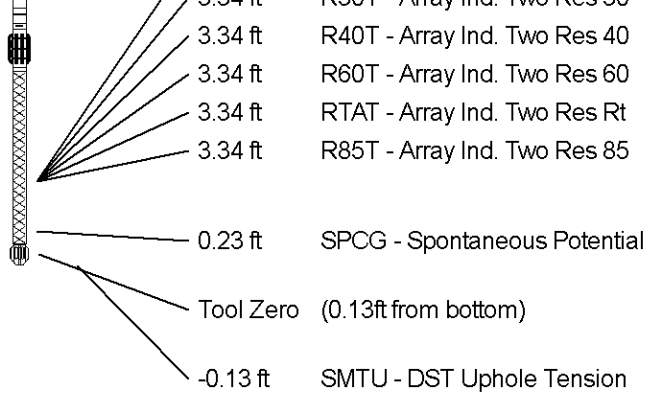
Compact Sonic
MSS-D.A 415 LG: 12.52 ft WT: 72.8 lb OD: 2.244 in

Compact Focussed Electric
MFE-C.A 400 LG: 6.05 ft WT: 48.5 lb OD: 2.244 in

Compact Induction
MAI-C.A 482 LG: 10.81 ft WT: 48.5 lb OD: 2.240 in

44.55 ft	GGCE - MCG BH Corrected Gamma
41.65 ft	CGXT - MCG External Temperature
35.89 ft	AVOL - Annular Volume
35.89 ft	HVOL - Hole Volume
35.89 ft	CLDC - Density Caliper
23.01 ft	TR11 - 4' Transit Time
22.51 ft	TR21 - 3' Transit Time
22.01 ft	TR12 - 6' Transit Time
21.51 ft	TR22 - 5' Transit Time
19.01 ft	SPRL_W - Wyllie Lmst Sonic Por.
19.01 ft	DT35 - 3-5' Compensated Sonic
3.34 ft	R20T - Array Ind. Two Res 20
3.34 ft	R30T - Array Ind. Two Res 30

Total	Length: 56.06 ft	Weight: 407.9 lb



All measurements relative to tool zero.

COMPANY	NUEVIDA RESOURCES, LLC
WELL	ARDOUREL 3HL
FIELD	MORIARTY PROSPECT
PROVINCE/COUNTY	LA PLATA
COUNTRY/STATE	COLORADO, USA

Elevation Kelly Bushing	6744.00	feet	Last Reading	543.00	feet
Elevation Drill Floor	6744.00	feet	First Reading	6256.00	feet
Elevation Ground Level	6719.00	feet	Depth Driller	6292.00	feet
			Depth Logger	6257.00	feet

XTREME WIRELINE INC

GAMMA-INDUCTON-SONIC
COMPOSITE LOG