HALLIBURTON

DUAL SPACED NEUTRON SPECTRAL DENSITY

COMPANY	MERIT ENERGY COMPANY, LLC
WELL	CELONA No. 1-12
FIELD/BLOCK	ST LOUIS
COUNTY	FINNEY
STATE	KS

API No. 15055225510100

Location 267' FWL & 458' FNL
SW NW NW NW

Sect. 12 Twp. 25S Rge. 32W

Other Services:
GTET
DSNT-SDLT
BSAT
ACRT

Permanent Datum	GL	Elev. 2830.0 ft	Elev.: K.B. 2842.0 ft
Log measured from	KB	12.0 ft above perm. Datum	D.F. 2841.0 ft
Drilling measured from	KB		G.L. 2830.0 ft

Date		26-Sep-22					
Run No.		ONE					
Depth - Driller		5173.0 ft					
Depth - Logger		5167.0 ft					
Bottom - Logged Interval		5123.0 ft					
Top - Logged Interval		3600.0 ft					
Casing - Driller		8.625 in	@ 1798.0 ft	@		@	
Casing - Logger		1798.0 ft					
Bit Size		7.875 in		@		@	
Type Fluid in Hole		Water Based Mud					
Density	Viscosity	9.2 ppg	50.00 s/qt				
PH	Fluid Loss	11.00 pH	5.6 cptm				
Source of Sample		MUDPIT					
Rm @ Meas. Temperature		1.11 ohmm	@ 78.00 degF	@		@	
Rmf @ Meas. Temperature		0.80 ohmm	@ 78.00 degF	@		@	
Rmc @ Meas. Temperature		1.28 ohmm	@ 78.00 degF	@		@	
Source Rmf	Rmc	CALC	CALC				
Rm @ BHT		0.70 ohmm	@ 128.0 degF	@		@	
Time Since Circulation		05:34 hr					
Time on Bottom		26-Sep-22 20:07					
Max. Rec. Temperature		128.00 degF	@ 5165.0 ft	@		@	
Equipment	Location	12128583	ALVARADO, T				
Recorded By		K. BJERGA					
Witnessed By		K. ROBINSON					

Fold here

Sales Order Number: 908128151 API No.: 15055225510100 PGM Version: WL INSITE R6.7 (Build 8)

CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE

	Sample No.					
Date						
Depth-Driller						
Type Fluid in Hole						
Density	Viscosity					
Ph	Fluid Loss					
Source of Sample						
Rm @ Meas. Temp		@	@	@	@	@
Rmf @ Meas. Temp.		@	@	@	@	@
Rmc @ Meas. Temp.		@	@	@	@	@
Source Rmf	Rmc					
Rm @ BHT		@	@	@	@	@
Rmf @ BHT		@	@	@	@	@
Rmc @ BHT		@	@	@	@	@

RESISTIVITY SCALE CHANGES

	Type Log	Depth	Scale Up Hole	Scale Down Hole

RESISTIVITY EQUIPMENT DATA

	Run No.	Tool Type & No.	Pad Type	Tool Pos.	Other

EQUIPMENT DATA

GAMMA		ACOUSTIC		DENSITY		NEUTRON	
Run No.	ONE	Run No.		Run No.	ONE	Run No.	ONE
Serial No.	11405267	Serial No.		Serial No.	10865883	Serial No.	1019641
Model No.	GTET	Model No.		Model No.	SDLT	Model No.	DSNT
Diameter	3.625"	No. of Cent.		Diameter	4.5"	Diameter	3.625"
Detector Model No.	GTET	Spacing		Log Type	GAM-GAM	Log Type	NEU-NEU
Type	SCINT			Source Type	Cs137	Source Type	Am241Be
Length	8"	LSA [Y/N]		Serial No.	5406GW	Serial No.	96395B
Distance to Source	10'	FWDA [Y/N]		Strength	1.78 Ci	Strength	15 Ci

LOGGING DATA

GENERAL			GAMMA		ACOUSTIC			DENSITY			NEUTRON		
Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix
No.	From	To	ft/min	L	R	L	R		L	R		L	R	
ONE	5167'	3600'	REC	0gapi	150gapi				0.3decP	0.0decP	2.71 g/cc	0.3decP	0.0decP	LIME

DIRECTIONAL INFORMATION

Maximum Deviation @ KOP @

Remarks: FIRST LOG ON WELL, POSITIVE DEPTH CONTROL APPLIED

SCALES AND PRESENTATIONS AS PER CLIENT REQUEST

TOOLS RAN IN COMBINATION AS PER TOOLSTRING DIAGRAM

ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING

CREW: C. HERRERA, B. EZEKWU

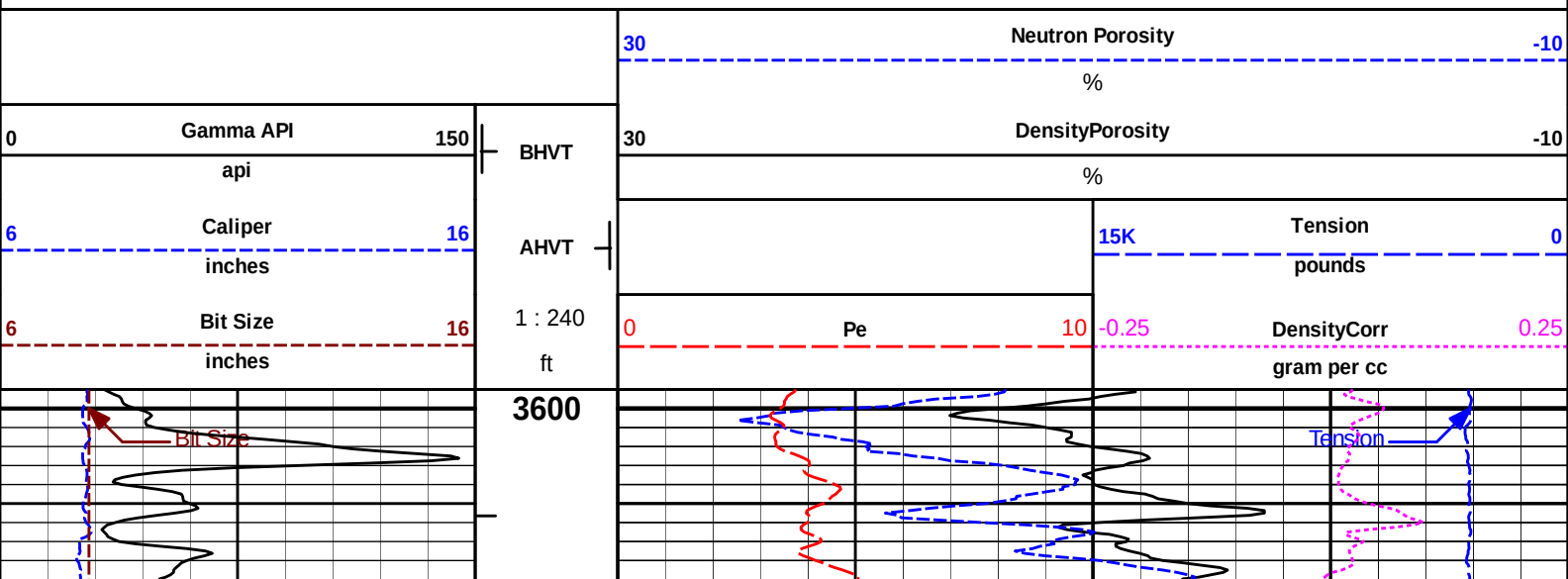
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES

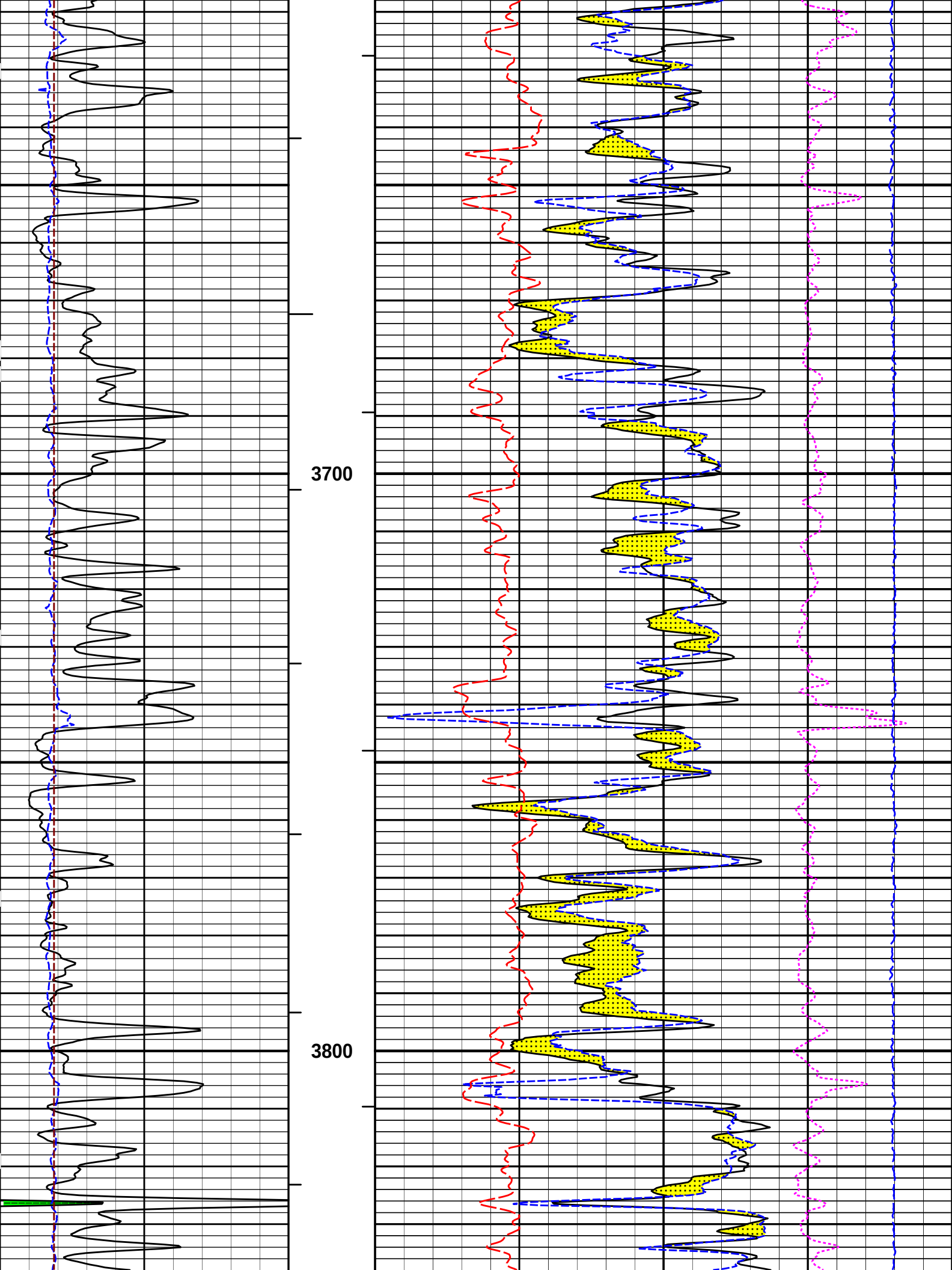
HALLIBURTON

Plot Time: 26-Sep-22 22:03:09
Plot Range: 3598 ft to 5170.75 ft
Data: 09_26_MERIT\Well Based\DAQ-DETAIL
Plot File: \\POR\Poro_IQ_5_MAIN

5 INCH MAIN LOG

MAIN SECTION 5" PER 100'

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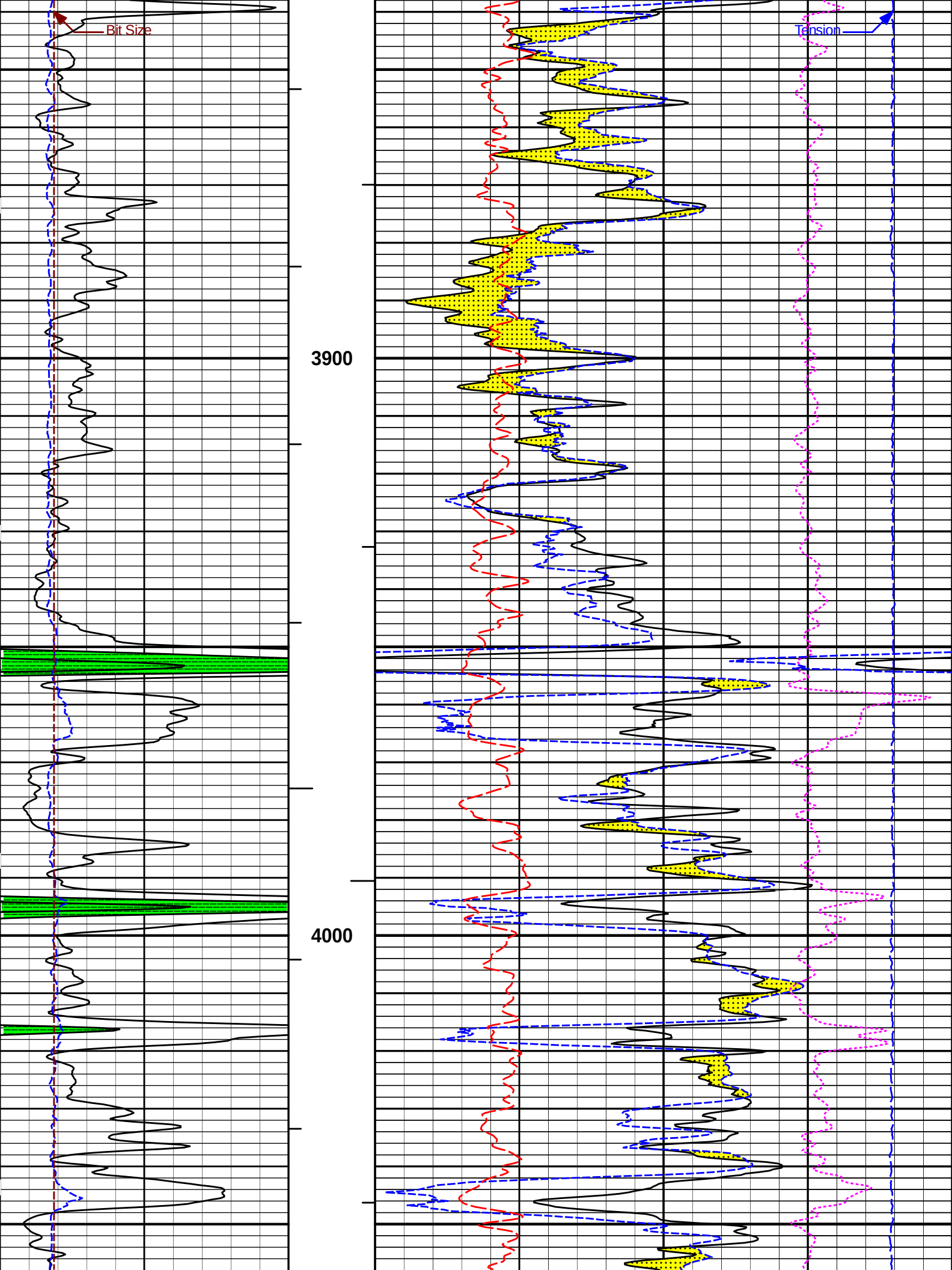
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Tension
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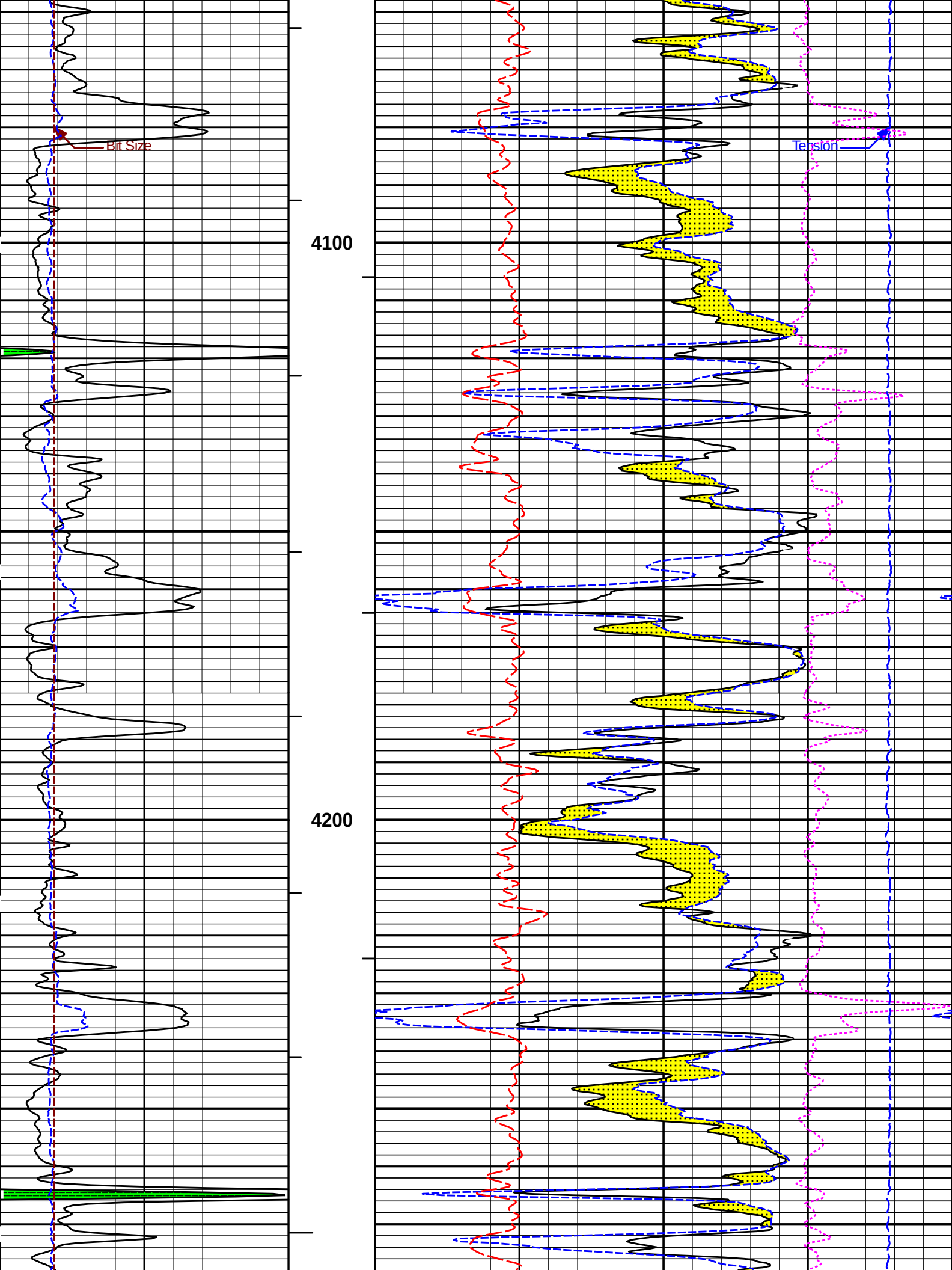
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Tension
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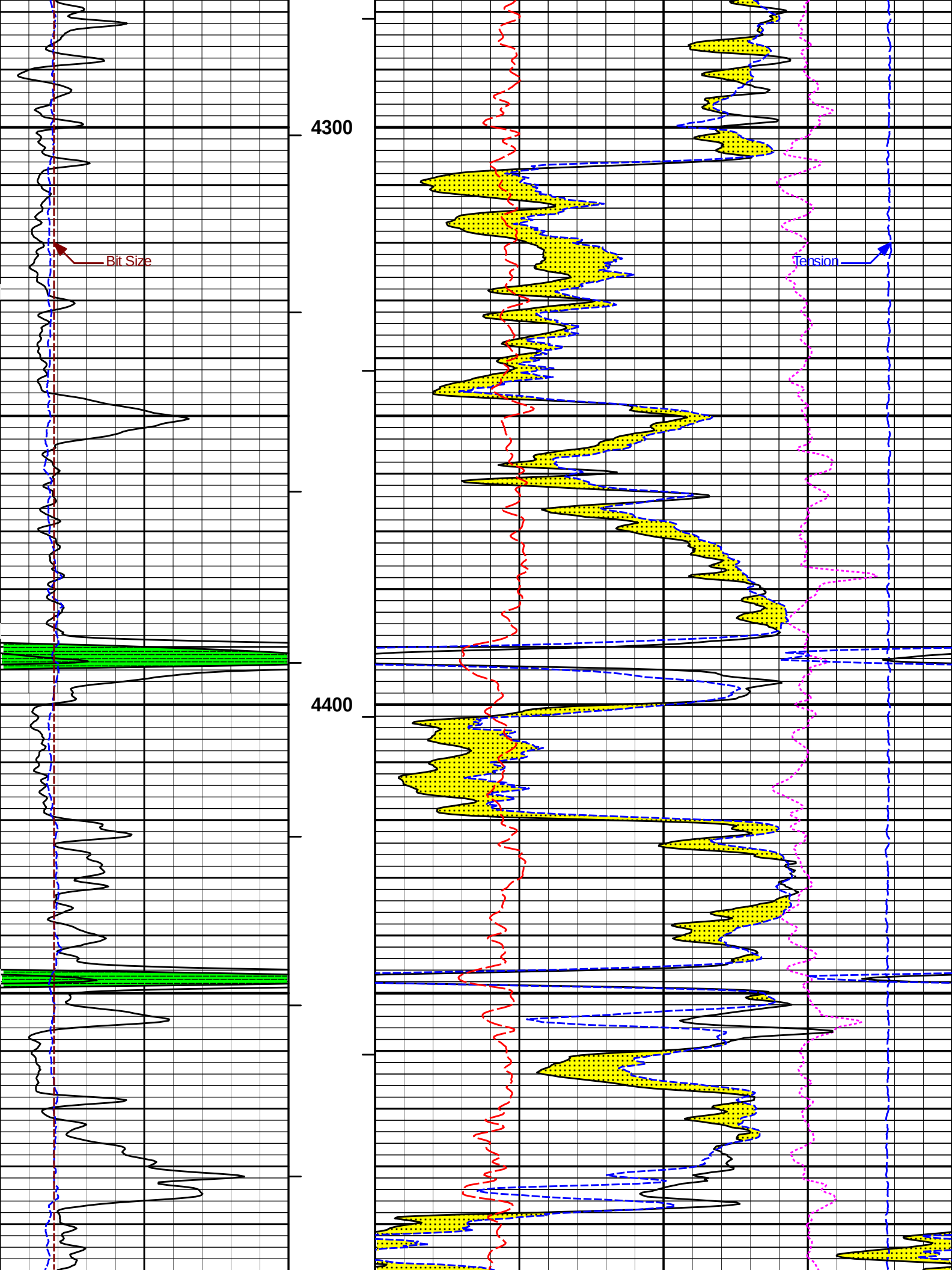
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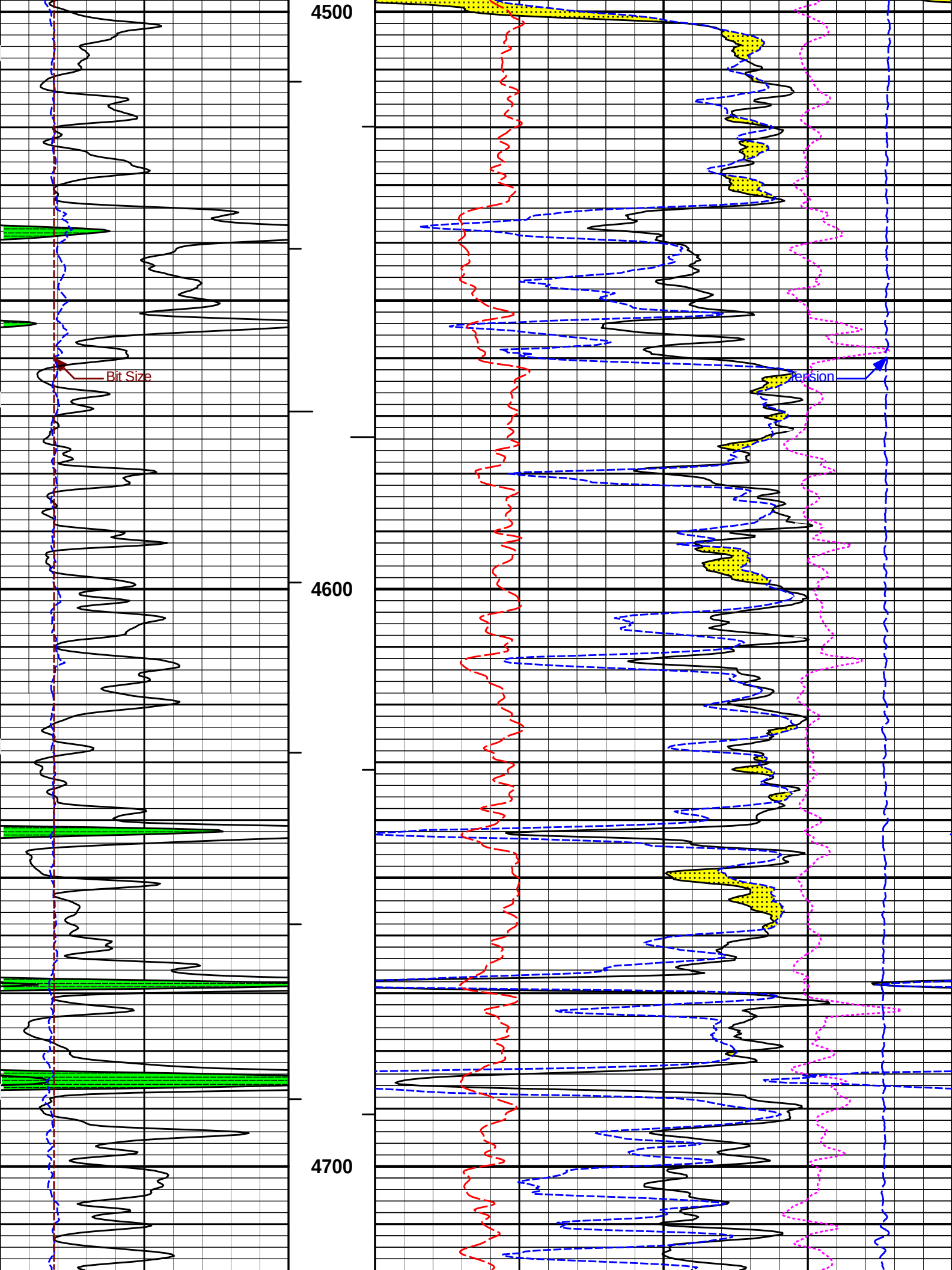
Tension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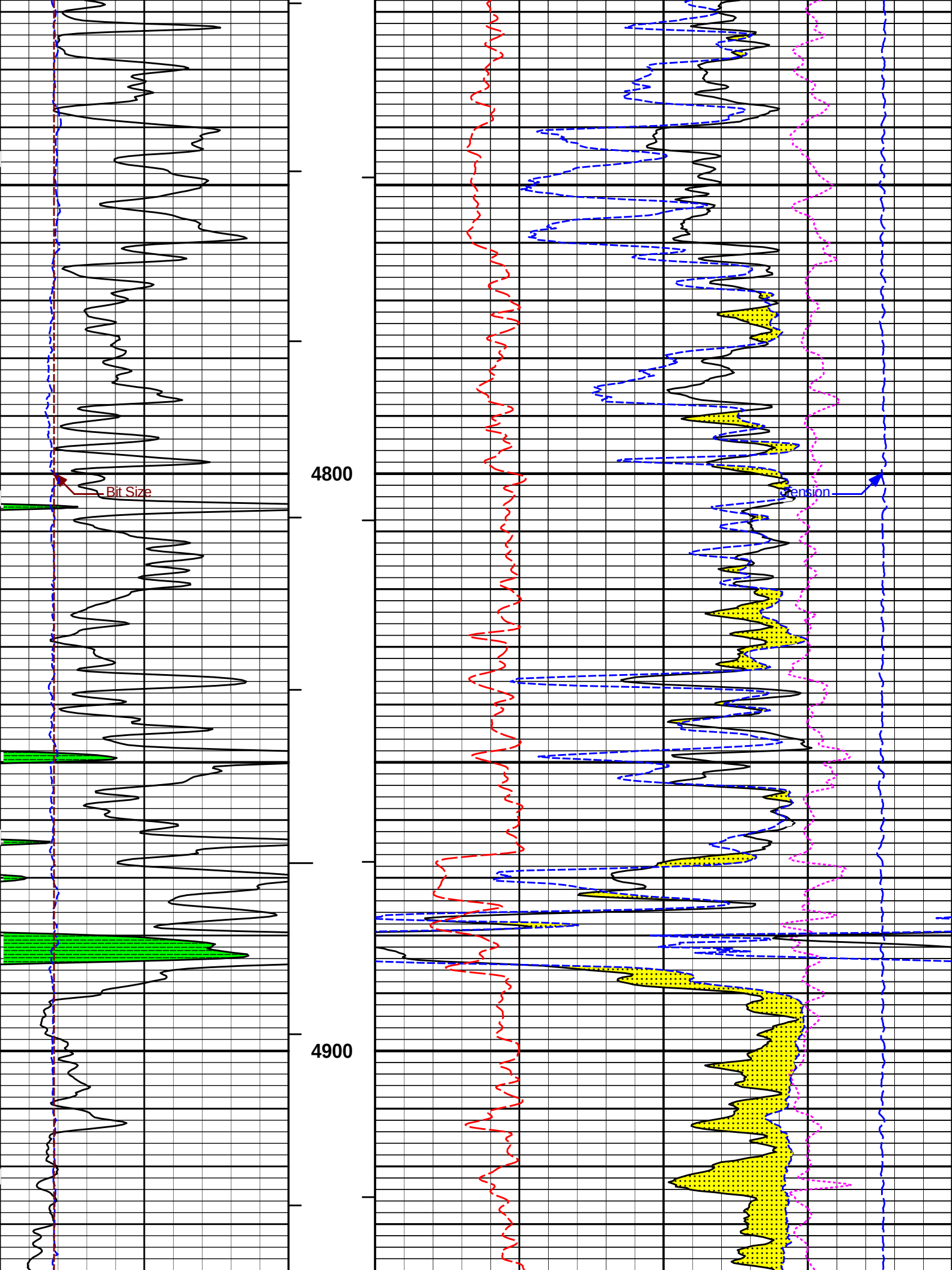
Bit Size
Tension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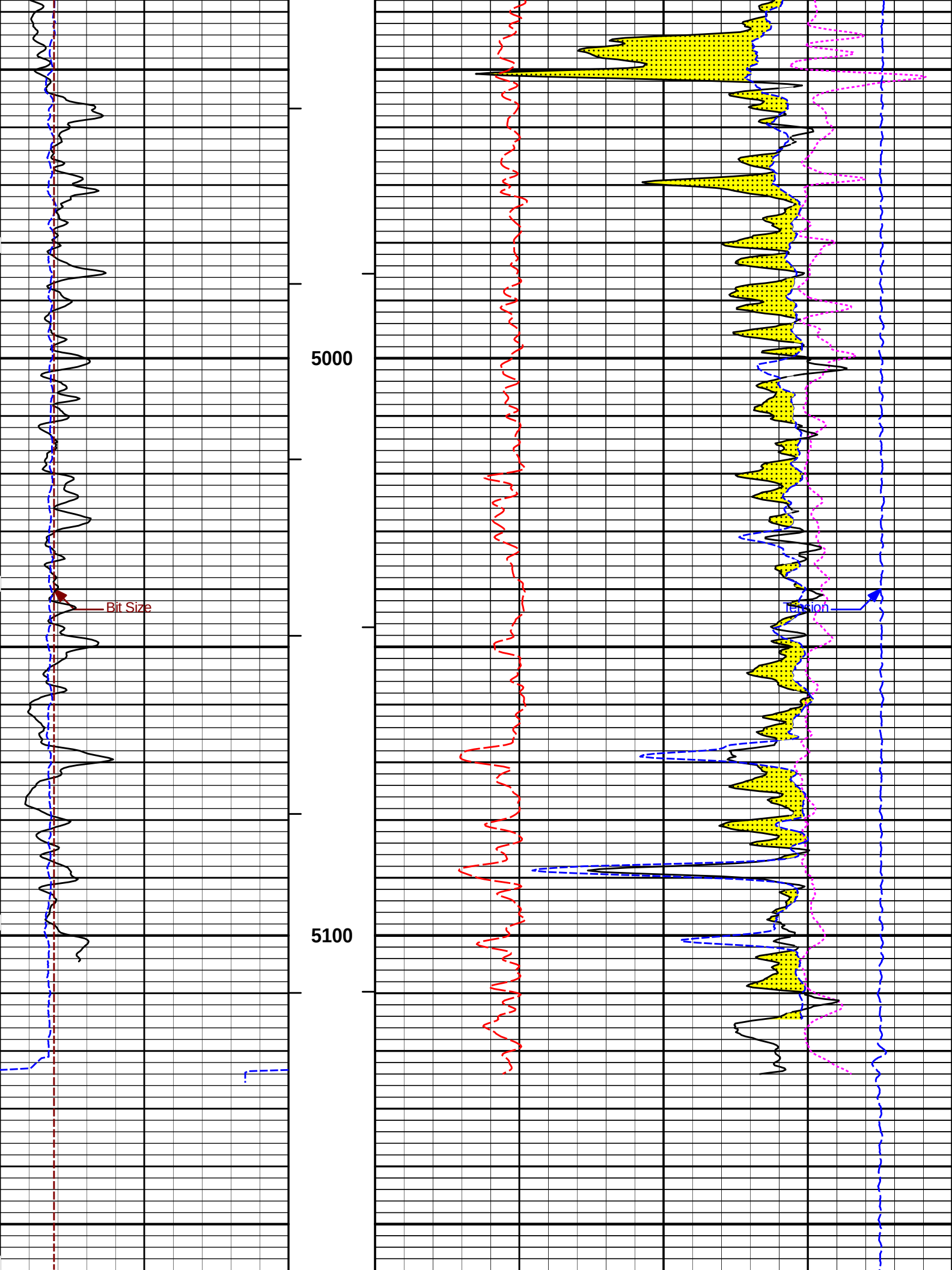
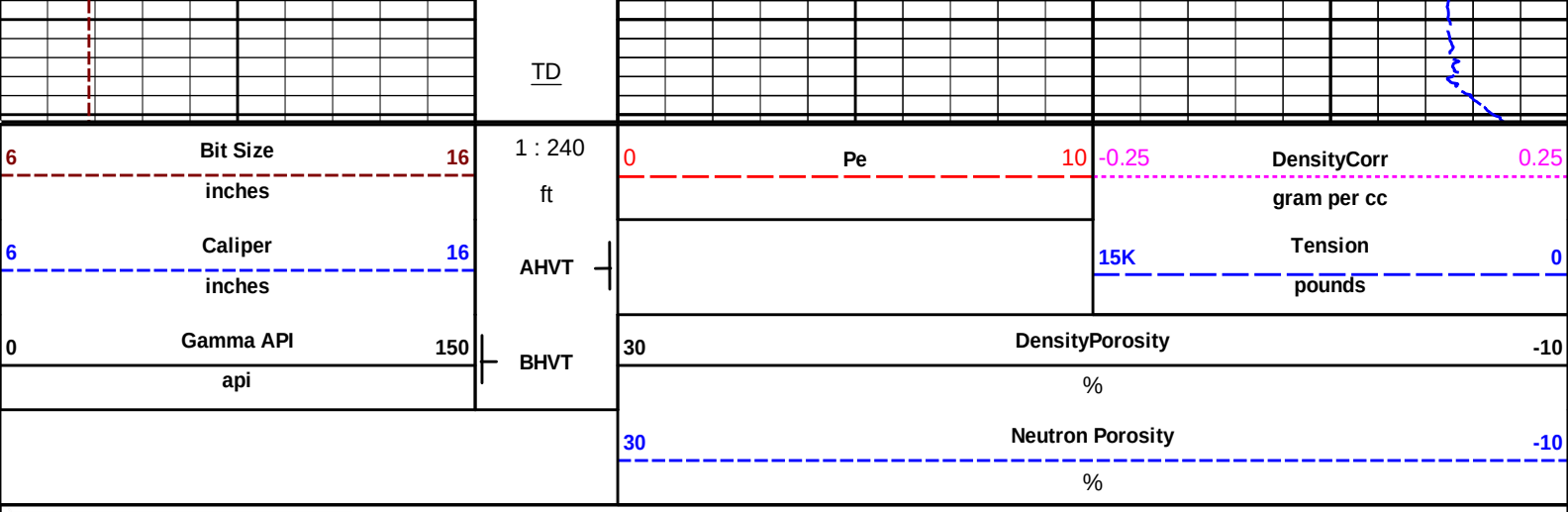
Extension


5000
5100
Bit Size
Tension



HALLIBURTON

Plot Time: 26-Sep-22 22:03:11
Plot Range: 3598 ft to 5170.75 ft
Data: 09_26_MERIT\Well Based\DAQ-DETAIL\
Plot File: \\POR\Poro_IQ_5_MAIN

5 INCH MAIN LOG

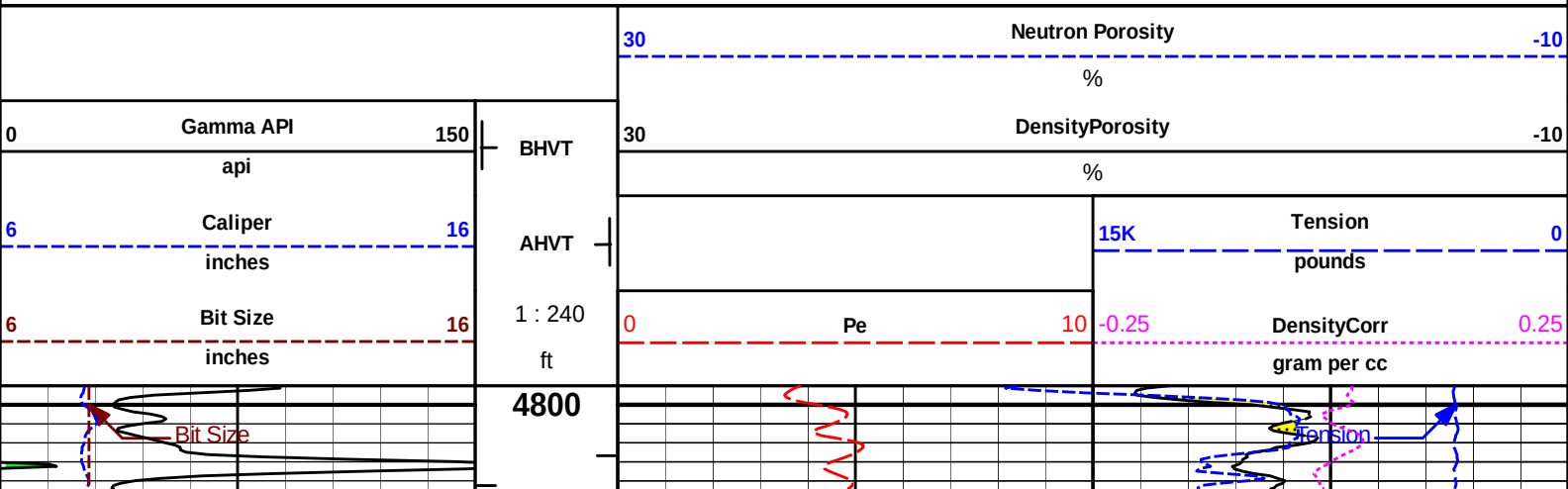
MAIN SECTION 5" PER 100'

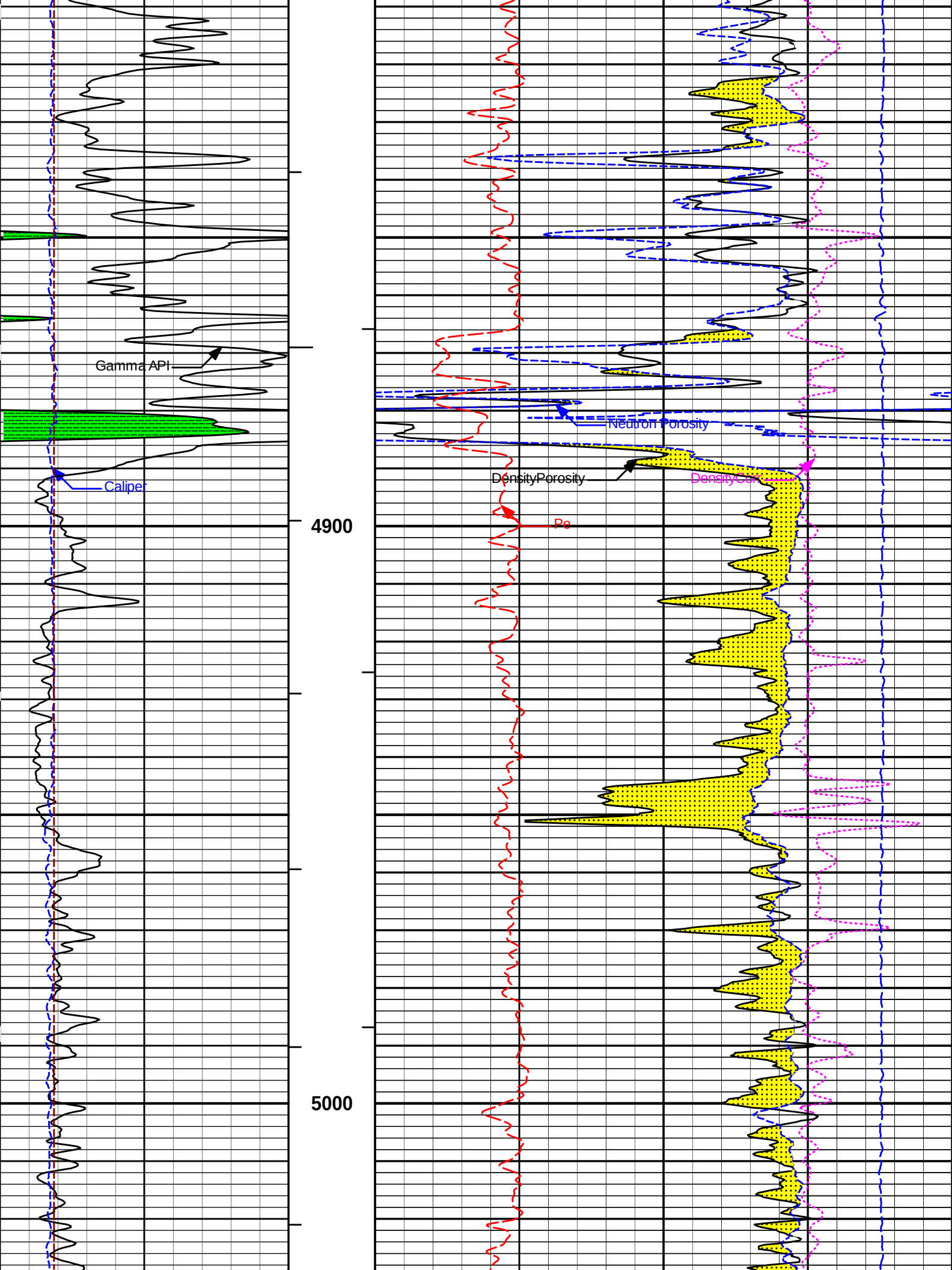
HALLIBURTON

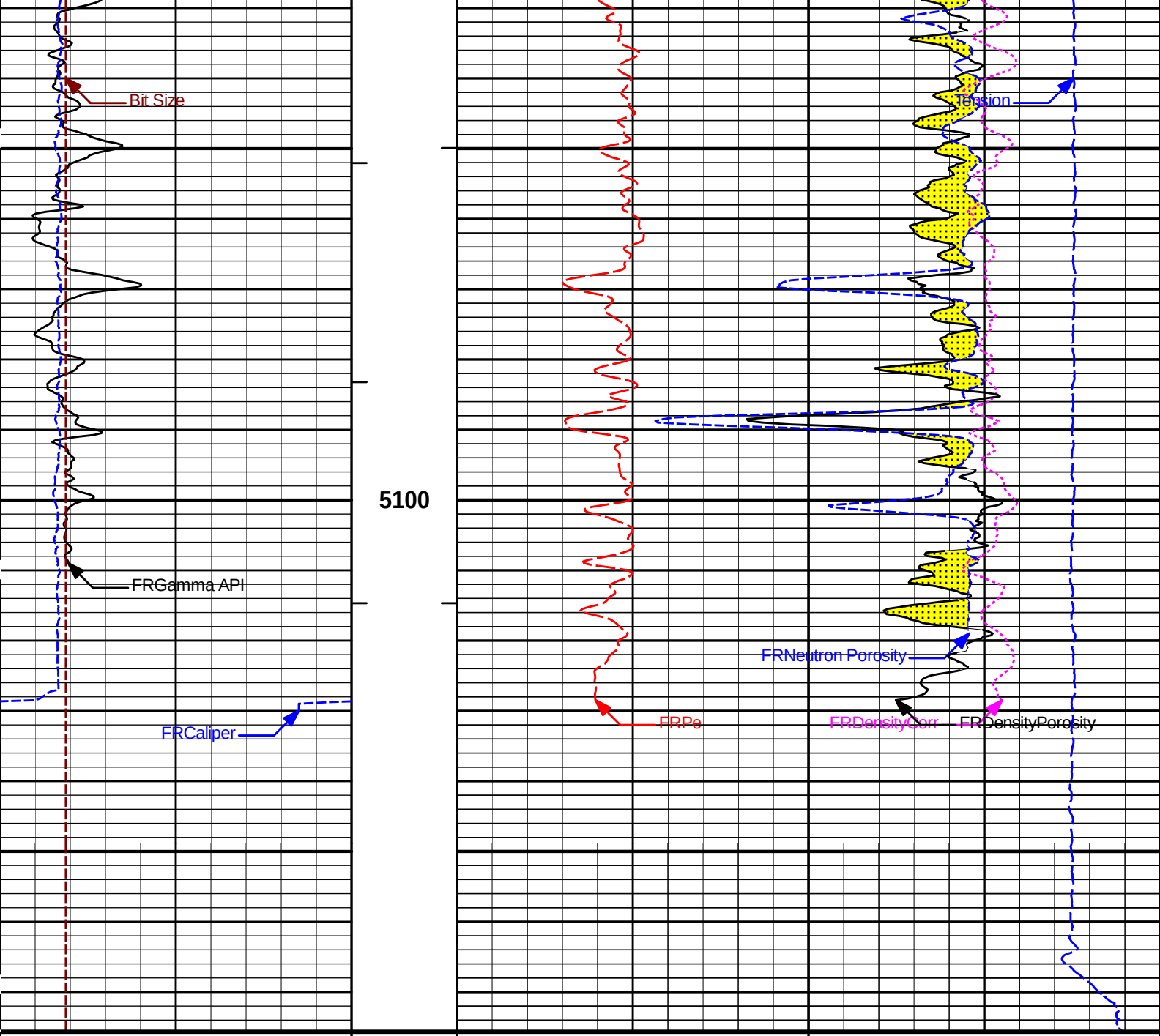
Plot Time: 26-Sep-22 22:03:11
Plot Range: 4798 ft to 5175.5 ft
Data: 09_26_MERIT\Well Based\DAQ-0001-003\
Plot File: \\POR\Poro_IQ_5 REPEAT

REPEAT SECTION

REPEAT SECTION




Gamma API
Caliper
Neutron Porosity
DensityPorosity
Pe
4900
5000



6 Bit Size 16	1 : 240	0 Pe 10	-0.25 DensityCorr 0.25	
inches	ft		gram per cc	
6 Caliper 16	AHVT		15K Tension 0	
inches			pounds	
0 Gamma API 150	BHVT	30 DensityPorosity -10		
api		%		
		30 Neutron Porosity -10		
		%		

HALLIBURTON

Plot Time: 26-Sep-22 22:03:13
Plot Range: 4798 ft to 5175.5 ft
Data: 09_26_MERIT\Well Based\DAQ-0001-003\
Plot File: \\POR\Poro_IQ_5 REPEAT

REPEAT SECTION

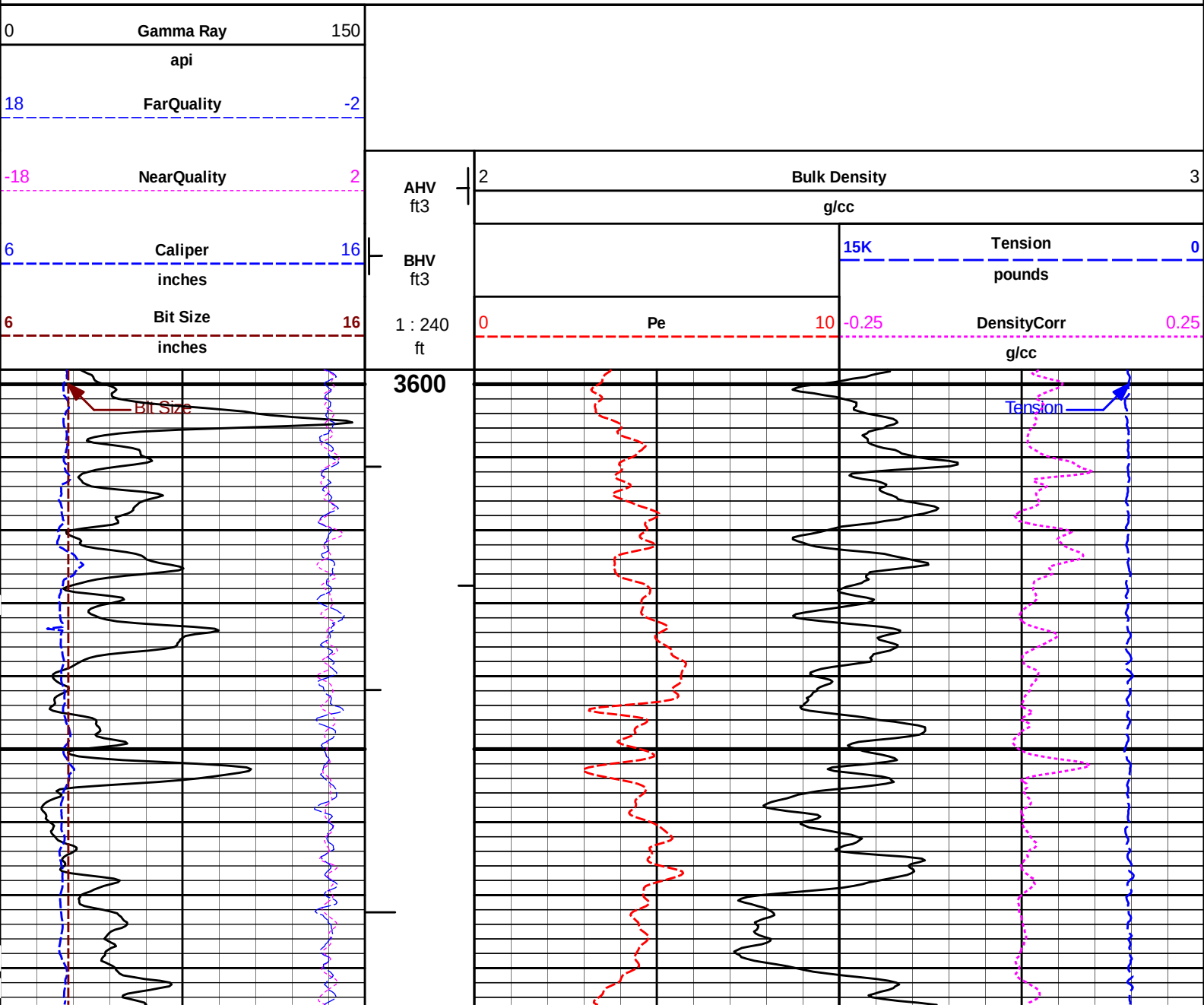
REPEAT SECTION

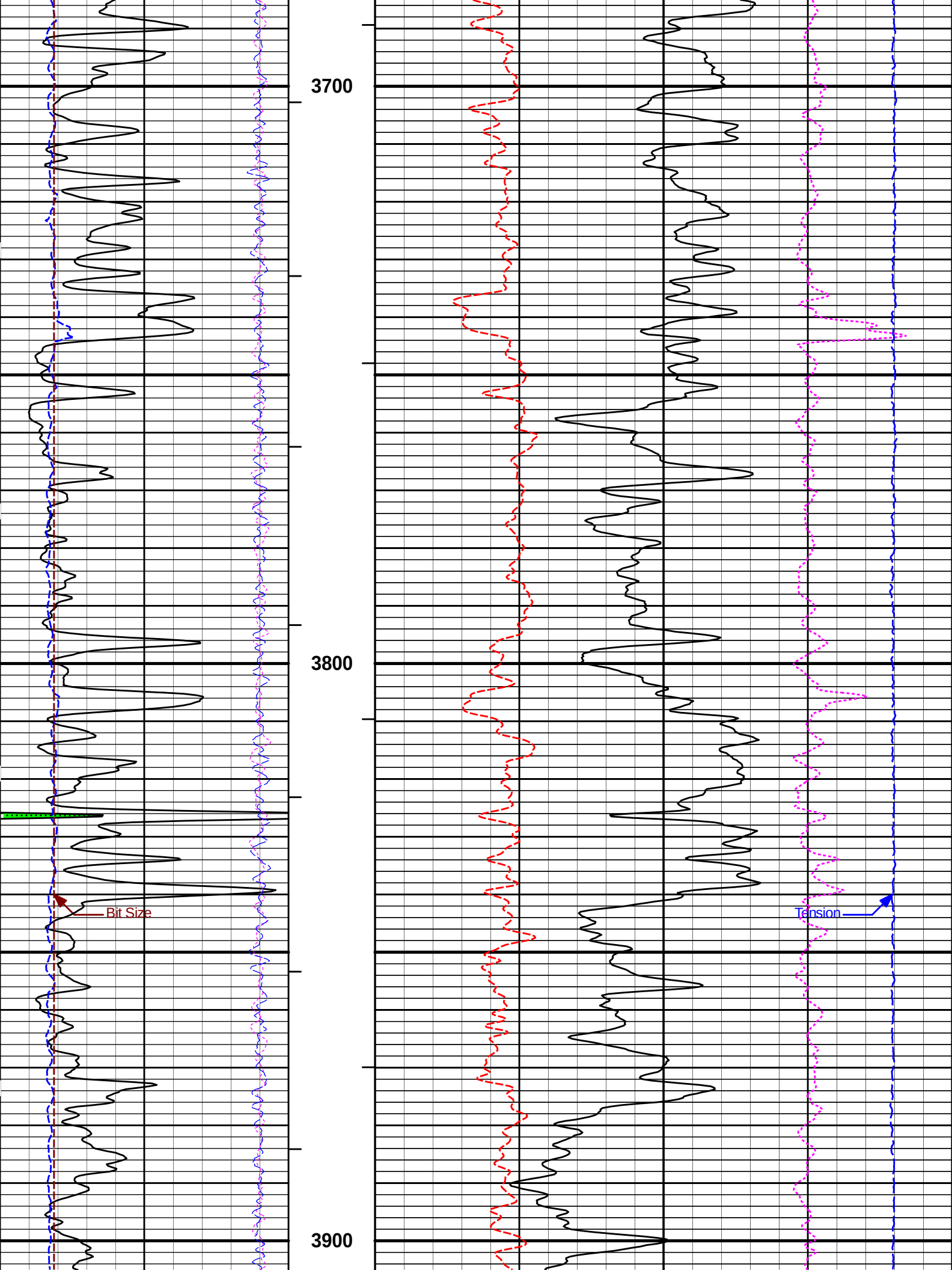
HALLIBURTON

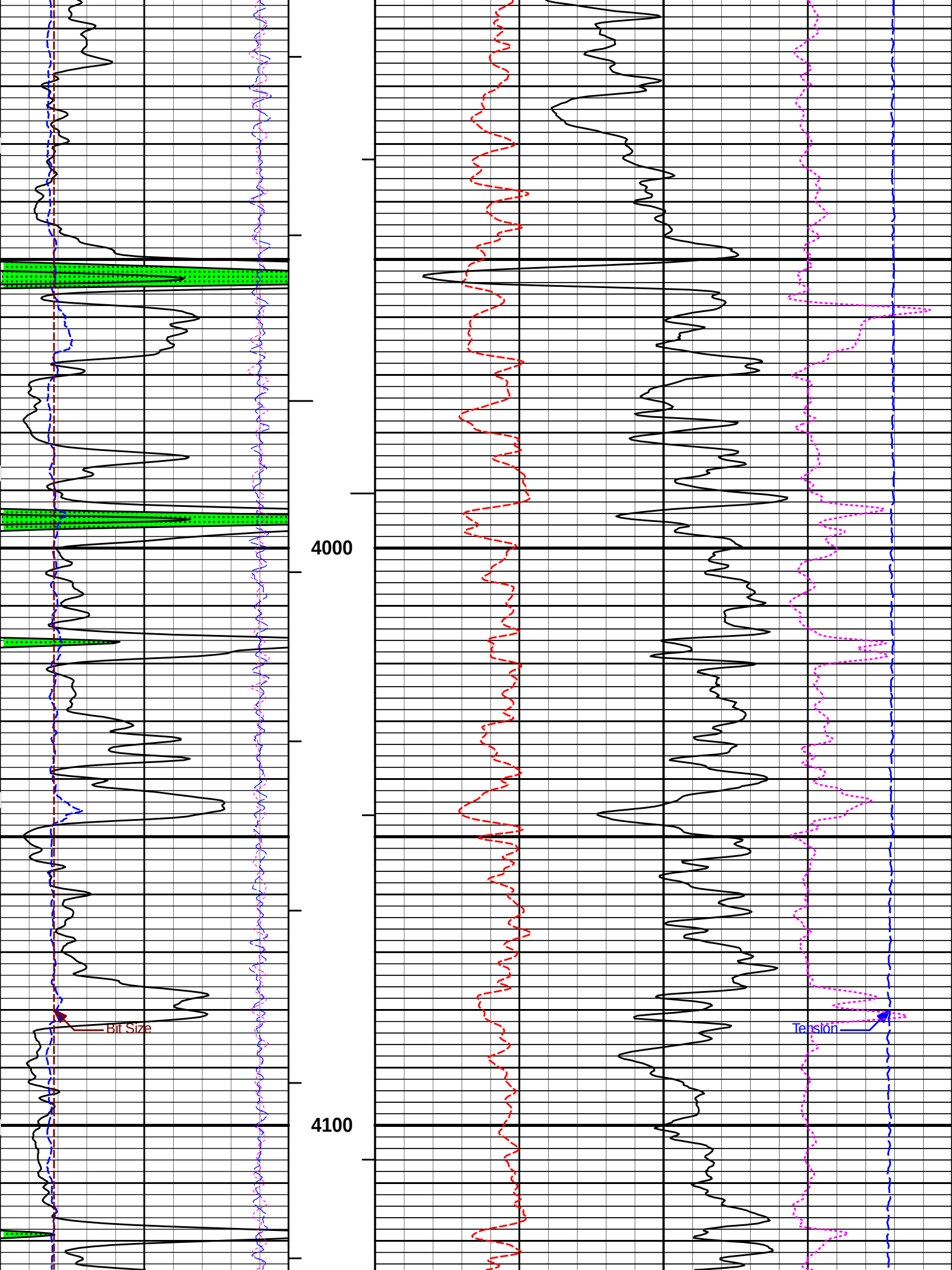
Plot Time: 26-Sep-22 22:03:13
Plot Range: 3598 ft to 5170.75 ft
Data: 09_26_MERIT\Well Based\DAQ-DETAIL\
Plot File: \\-LOCAL-\09_26_MERIT\0001 GTET-DSNT-SDLT-BSAT-ACRT\POR\BULKD_5_MAIN_IQ

5 INCH MAIN LOG

MAIN SECTION 5" PER 100'




3700
3800
3900
Bit Size
Tension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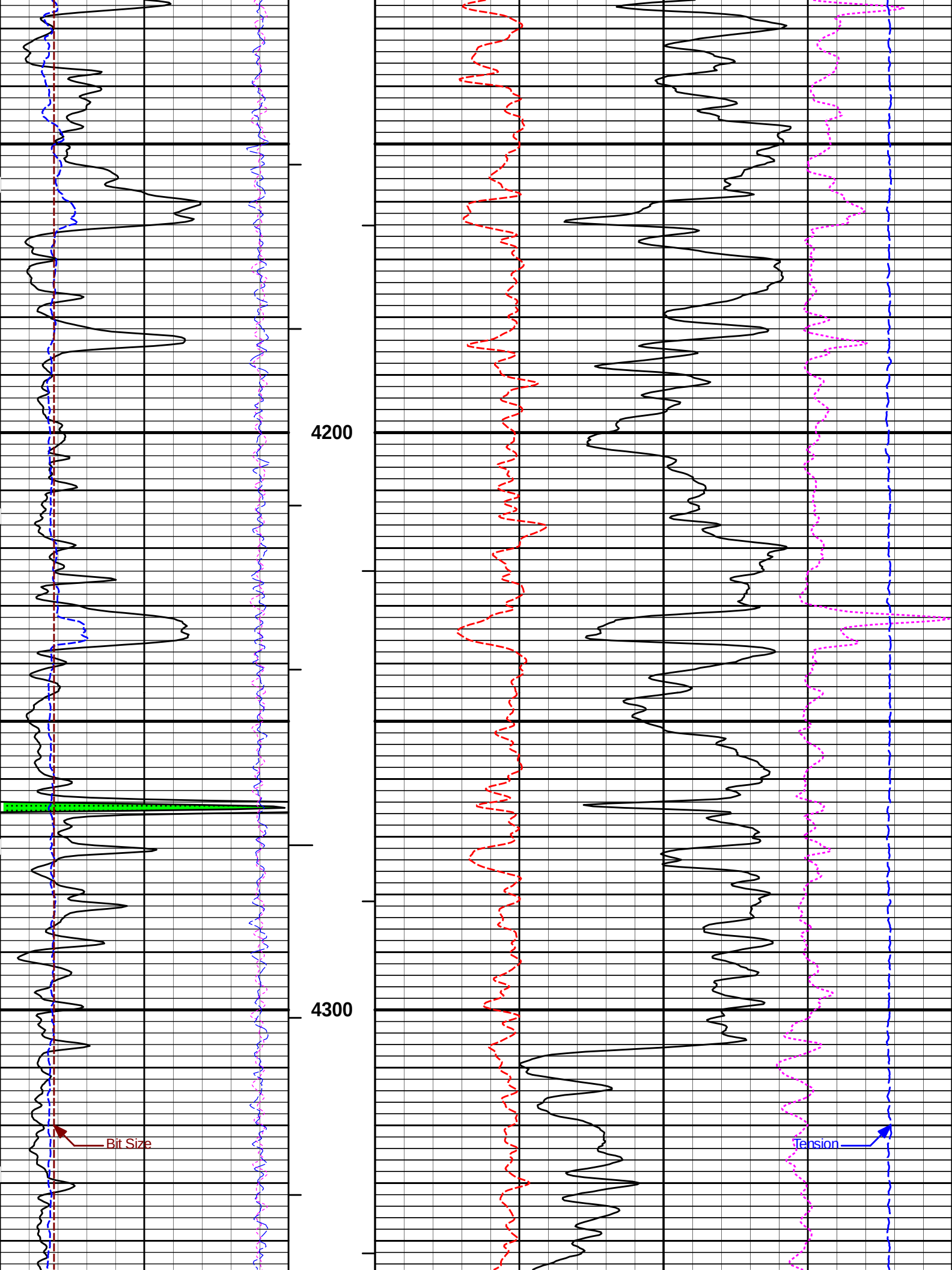
Bit Size
Tension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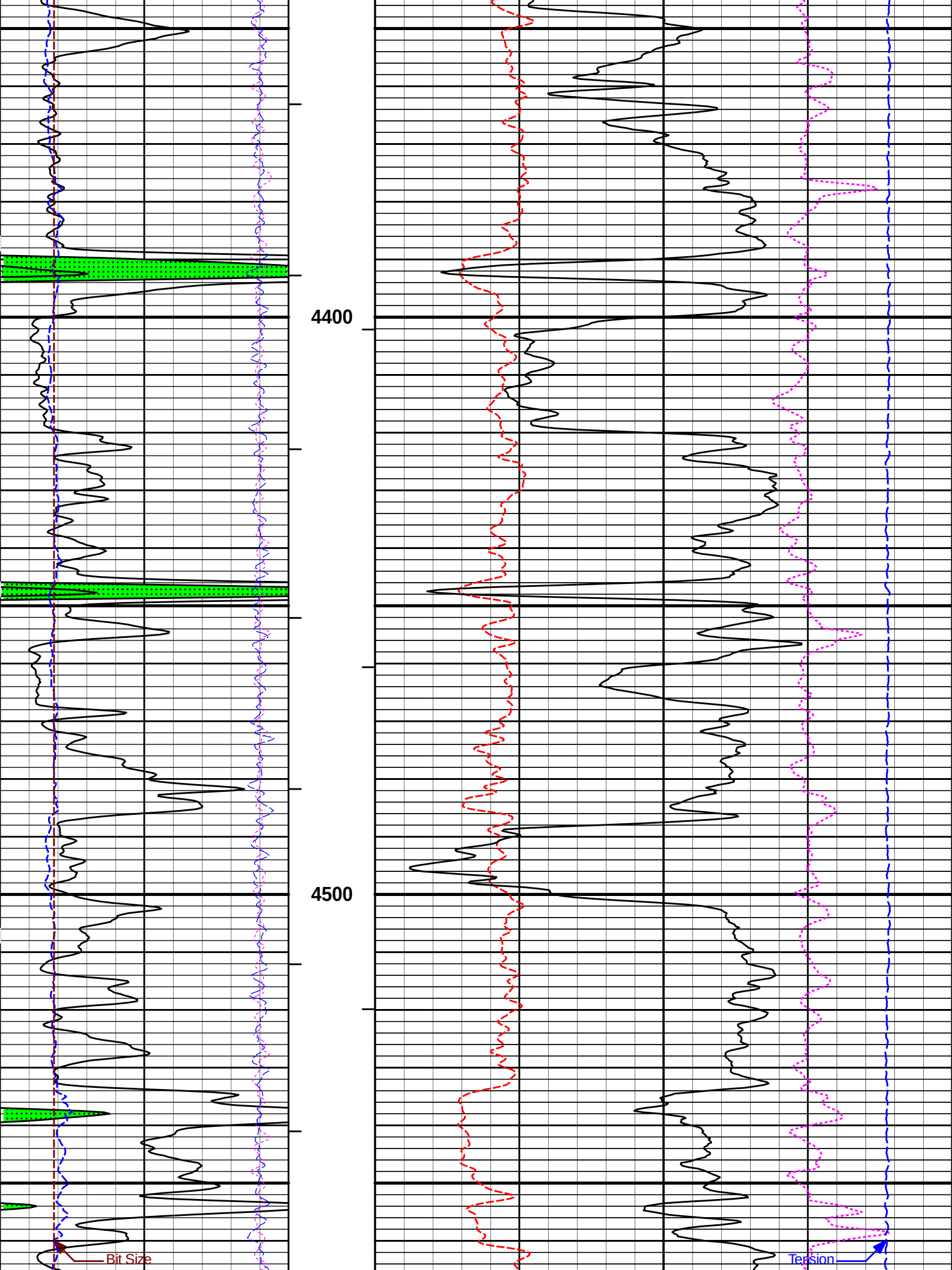
Bit Size
Tension


4400
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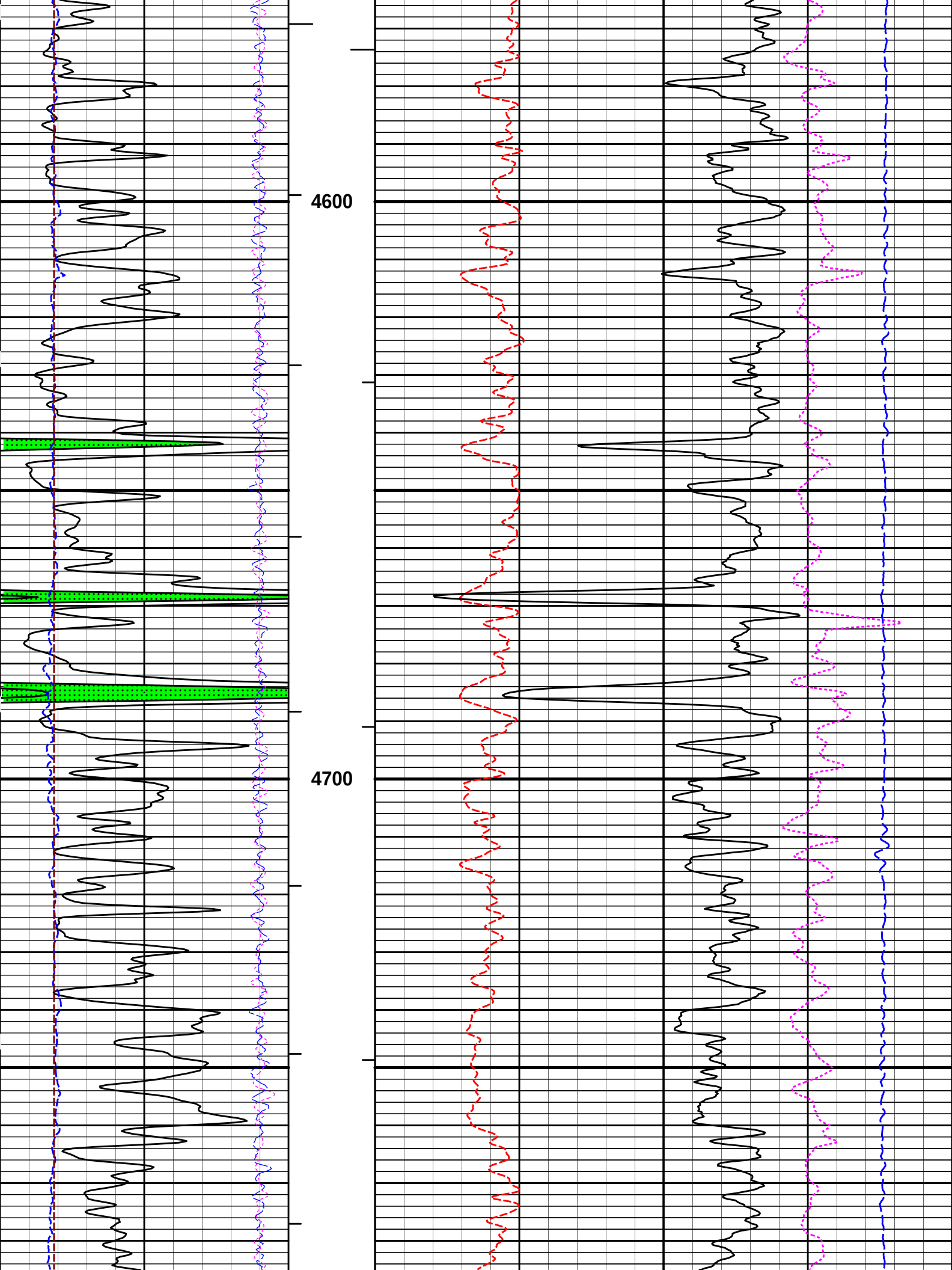
Bit Size
Tension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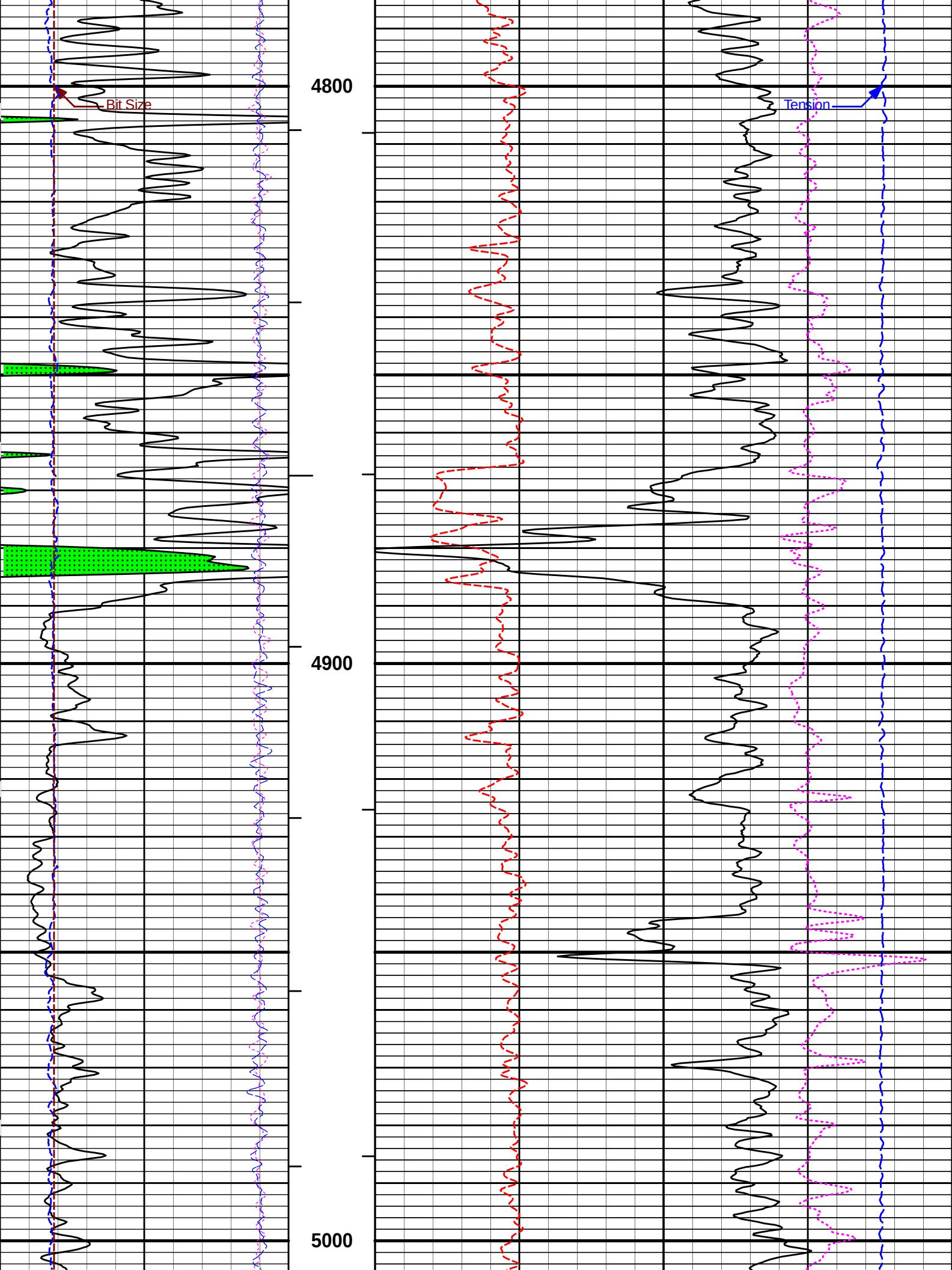
4700


Bit Size
Tension
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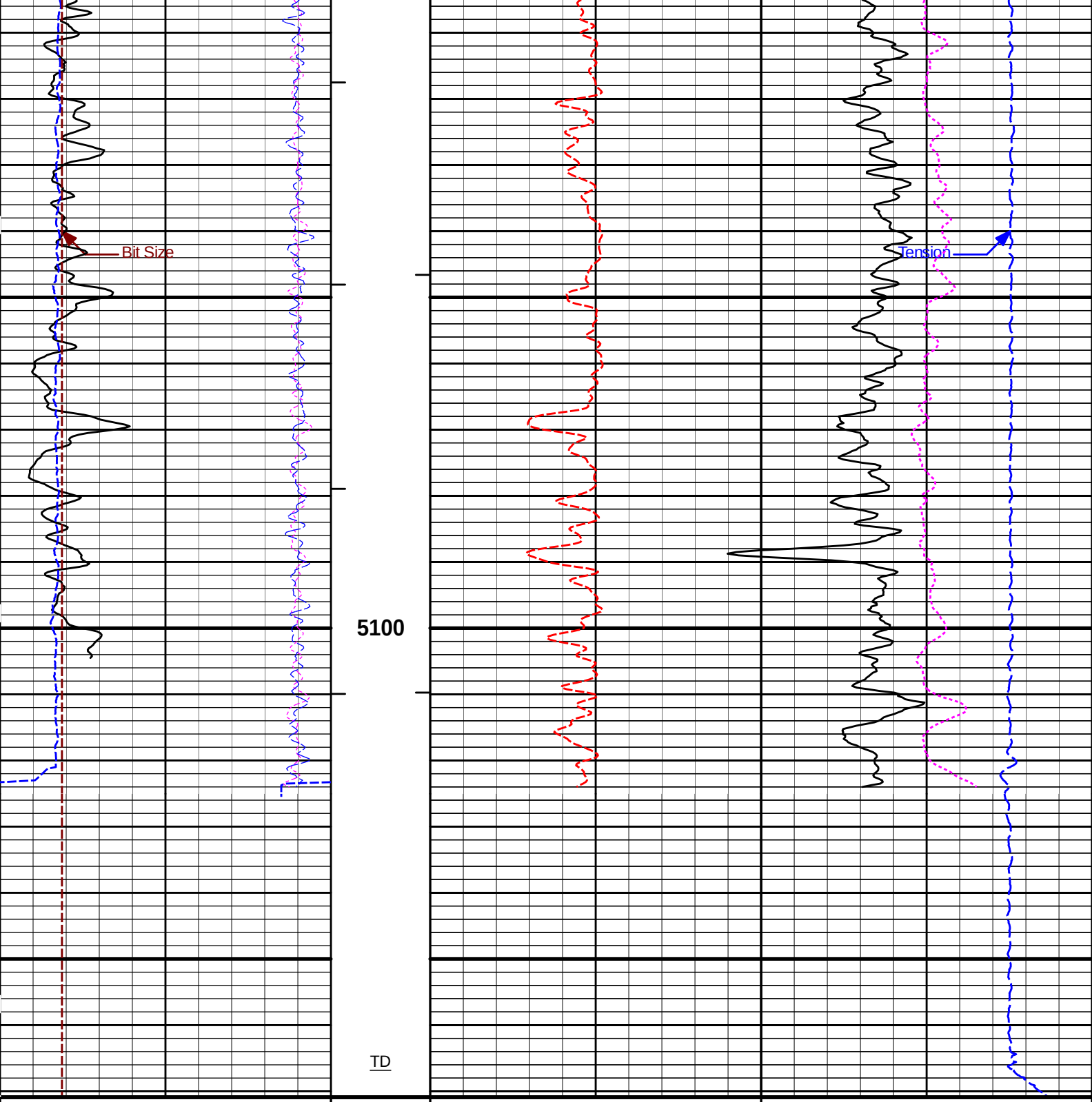
4900
5000



6	Bit Size	16	1 : 240	0	Pe	10	-0.25 DensityCorr 0.25
	inches		ft				g/cc
6	Caliper	16	BHV			15K	Tension 0
	inches		ft3				pounds
-18	NearQuality	2	AHV	2	Bulk Density	3	
			ft3		g/cc		
18	FarQuality	-2					
0	Gamma Ray	150					
	api						

HALLIBURTON

Plot Time: 26-Sep-22 22:03:15

Plot Range: 3598 ft to 5170.75 ft
Data: 09_26_MERIT\Well Based\DAQ-DETAIL\
Plot File: \\-LOCAL-\09_26_MERIT\0001 GTET-DSNT-SDLT-BSAT-ACRT\POR\BULKD_5_MAIN_IQ

5 INCH MAIN LOG

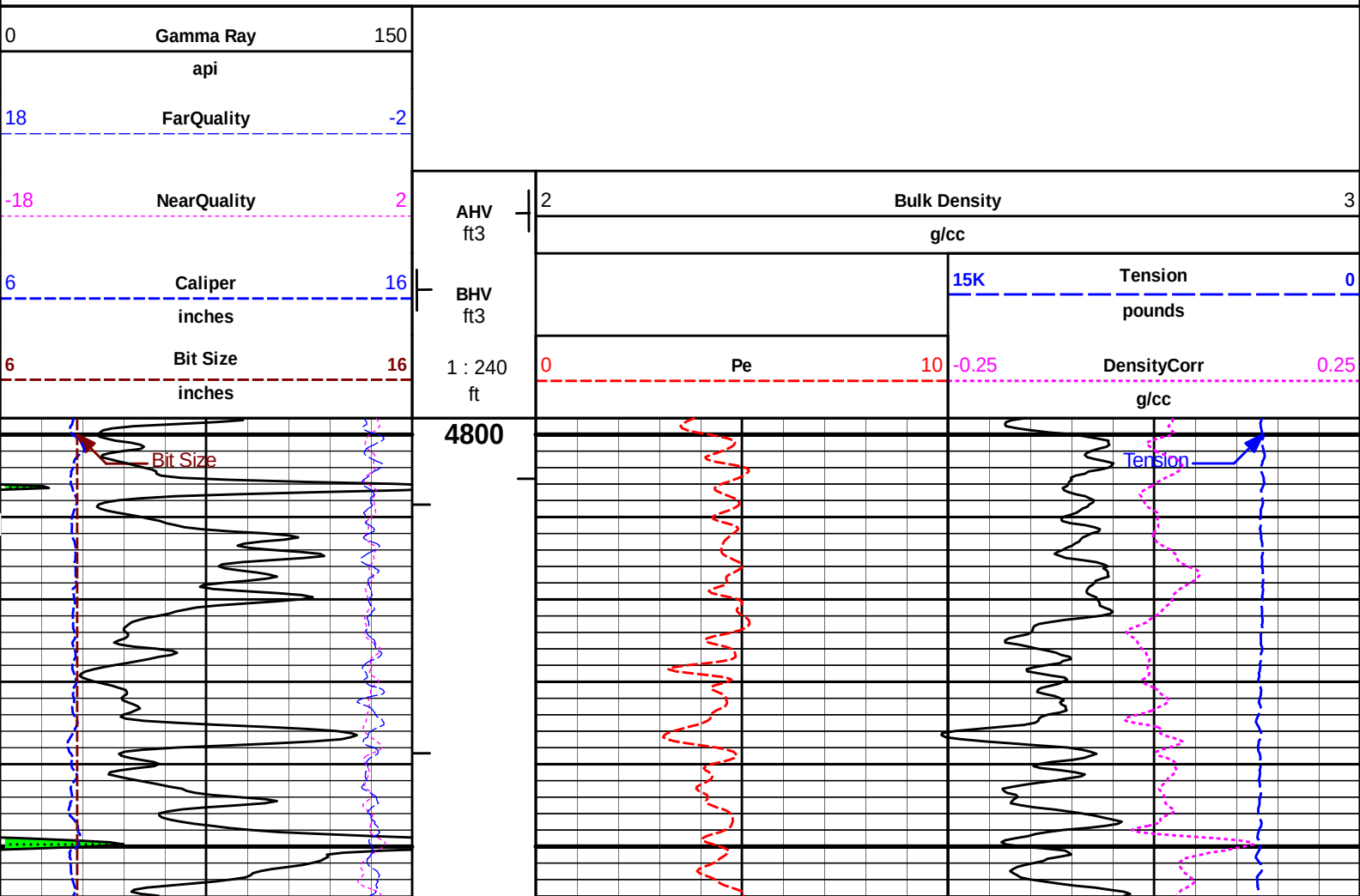
MAIN SECTION 5" PER 100'

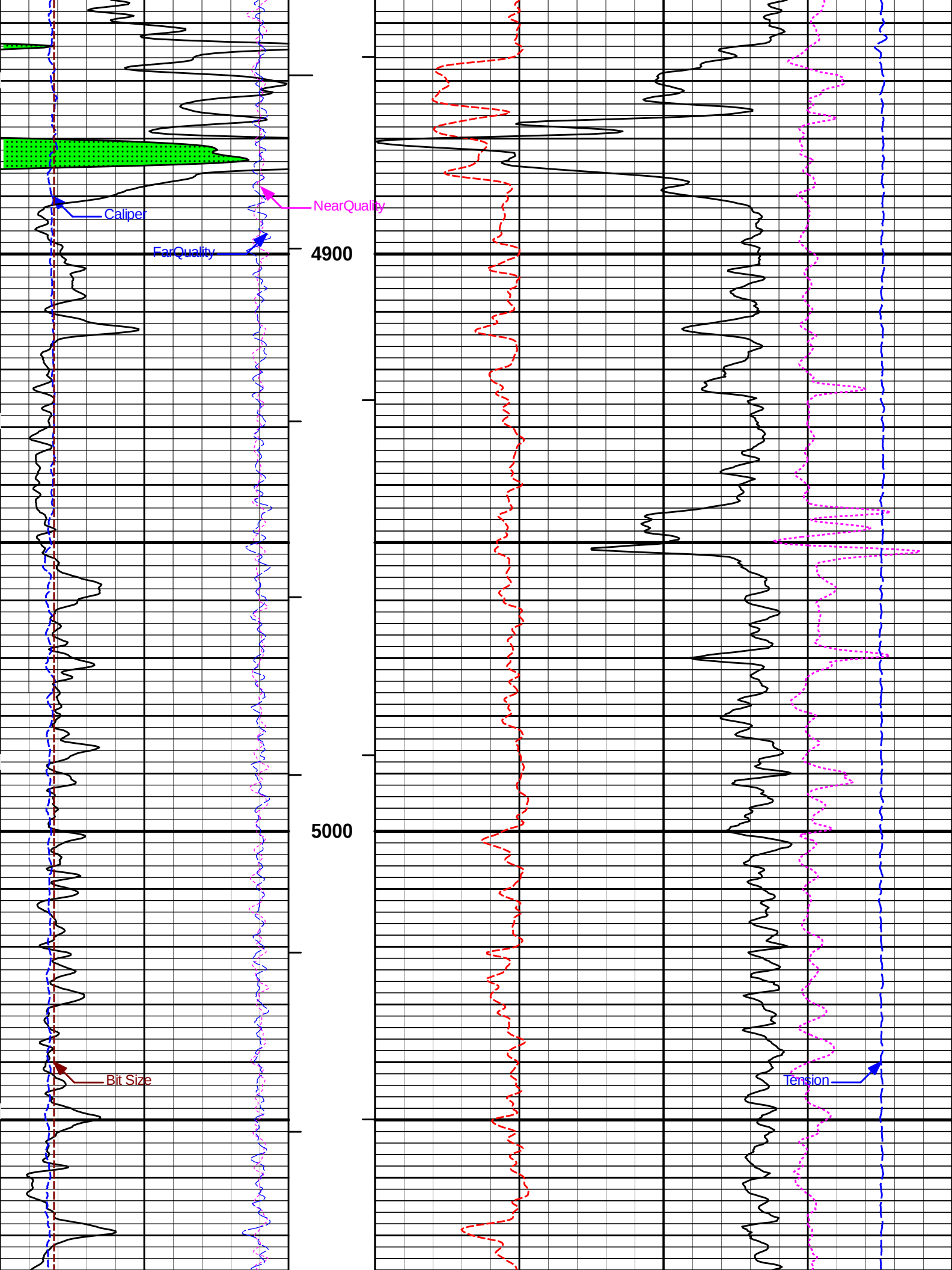
HALLIBURTON

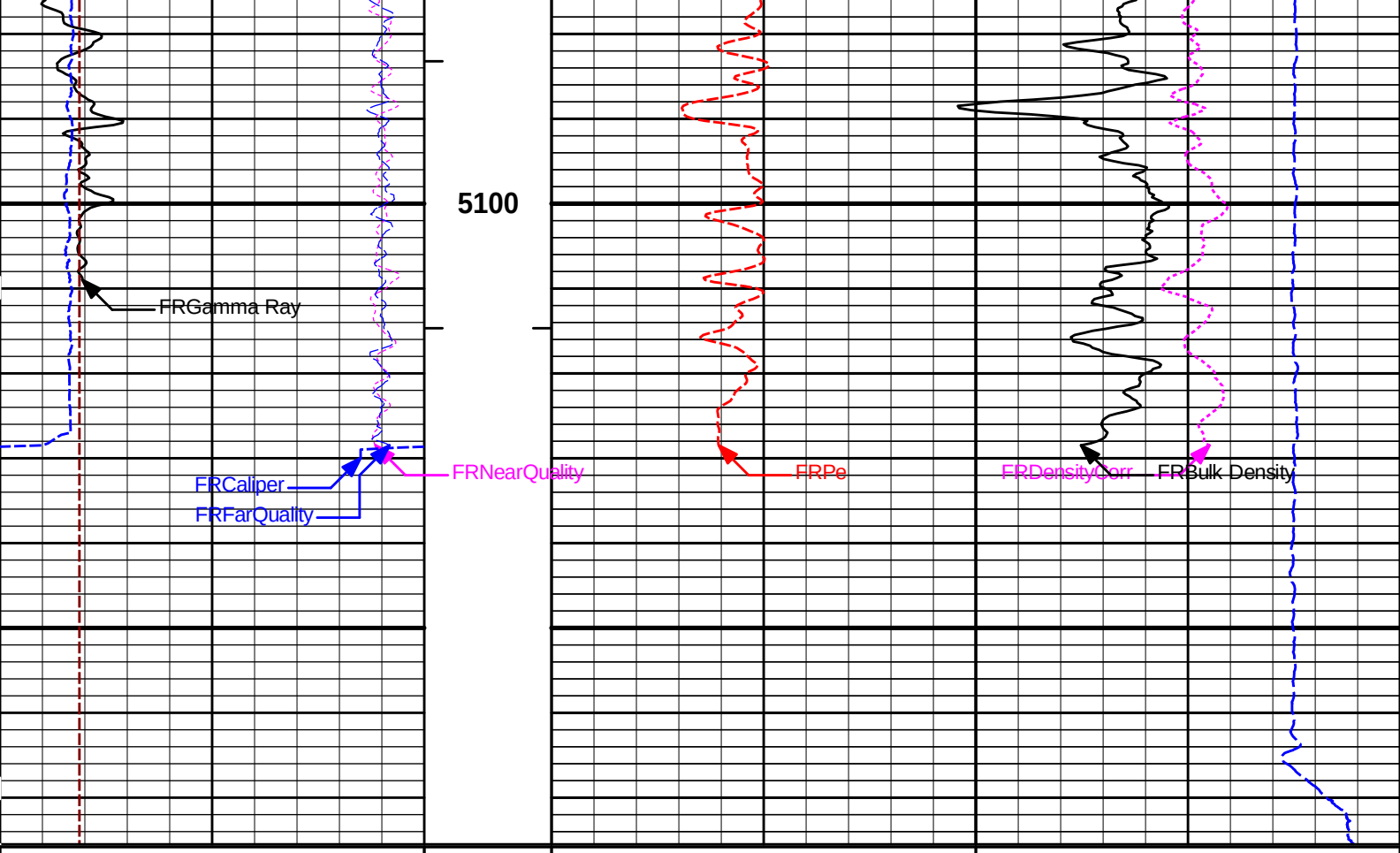
Plot Time: 26-Sep-22 22:03:15
Plot Range: 4798 ft to 5175.5 ft
Data: 09_26_MERIT\Well Based\DAQ-0001-003\
Plot File: \\-LOCAL-\09_26_MERIT\0001 GTET-DSNT-SDLT-BSAT-ACRT\POR\BULKD_5_RPT_IQ

REPEAT SECTION

REPEAT SECTION




Caliper
NearQuality
FarQuality
4900
5000
Bit Size
Tension



6	Bit Size	16	1 : 240 ft	0 Pe 10	-0.25 DensityCorr 0.25
	inches				g/cc
6	Caliper	16	BHV ft3		15K Tension 0
	inches				pounds
-18	NearQuality	2	AHV ft3	2 Bulk Density 3	
				g/cc	
18	FarQuality	-2			
0	Gamma Ray	150			
	api				

HALLIBURTON

Plot Time: 26-Sep-22 22:03:17
Plot Range: 4798 ft to 5175.5 ft
Data: 09_26_MERIT\Well Based\DAQ-0001-003\
Plot File: \\-LOCAL-\09_26_MERIT\0001 GTET-DSNT-SDLT-BSAT-ACRT\POR\BULKD_5_RPT_IQ

REPEAT SECTION

REPEAT SECTION

HALLIBURTON

CALIBRATION REPORT

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:	**GTET - 11405267**	**Reference Calibration Date:**	**05-Aug-21 10:53:16**
Engineer:	**MOHAMED ABUELGASIM**	**Calibration Date:**	**17-Jun-22 16:53:35**
Software Version:	**WL INSITE R6.4.5 (Build 6)**	**Calibration Version:**	**1**

Calibrator Source S/N: TB-768

Calibrator API Reference:203.00 api

Equivalent Calibrator API Reference:206.6 api

Measurement	Measured	Calibrated	Units
Background	19.1	17.9	api
Background + Calibrator	238.9	224.5	api
Calibrator	219.9	206.6	api

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name:	**DSNT - 11019641**	**Reference Calibration Date:**	**19-Aug-22 17:45:26**
Engineer:	**J. Cabanzo**	**Calibration Date:**	**19-Aug-22 18:08:05**
Software Version:	**WL INSITE R6.6.7 (Build 8)**	**Calibration Version:**	**1**

Logging Source S/N: 96395B

Tank Serial Number: 10585331

Reference value assigned to Tank: 54.090

Snow Block S/N: 2

Calibration Tank Water Temperature: 86 degF

Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS			
Measurement	**Prev. Value**	**New Value**	**Control Limit On New Value**
Gain:	0.95915	0.96288	0.900 - 1.100

WATER TANK SUMMARY (Horizontal Water Tank)				
Measurement	**Current Reading (Previous Coef.)**	**Calibrated (New Coef.)**	**Change**	**Control Limit On Change**
Porosity (decp):	0.2233	0.2244	0.0012	+/- 0.0020
Calibrated Ratio:	10.1421	10.1815	0.039	+/- 0.050

VERIFIER		
Measurement	**Value**	**Control Limit**
Snow-Block Porosity (decp):	0.0589	0.02000 - 0.09000

PASS/FAIL SUMMARY	
Background Check:	Passed
Gain-Range Check:	Passed
Snow-Block Check:	Passed

DUAL SPACED NEUTRON FIELD CALIBRATION

Tool Name:	**DSNT - 11019641**	**Reference Calibration Date:**	**19-Aug-22 18:08:05**
Engineer:	**J. Cabanzo**	**Calibration Date:**	**19-Aug-22 18:09:36**
Software Version:	**WL INSITE R6.6.7 (Build 8)**	**Calibration Version:**	**1**

Logging Source S/N: 96395B

Snow Block S/N: 2

NEUTRON FIELD-CHECK SUMMARY				
Measurement	**Shop**	**Field**	**Difference**	**Control Limit**

	Shop	Field	Difference	On Change
Snow-Block Porosity (decp):	0.0589	0.0712	0.0122	+/- 0.0150

PASS/FAIL SUMMARY	
Block Change Check:	Passed
Snow Block Stat Check:	Passed
Temperature Check:	Passed

DENSITY CALIPER SHOP CALIBRATION

Tool Name: SDLT - 10695352 **Reference Calibration Date:** 19-Aug-22 15:31:53

Engineer: J. Cabanzo **Calibration Date:** 19-Aug-22 15:37:09

Software Version: WL INSITE R6.6.7 (Build 8) **Calibration Version:** 1

Host Tool Name: DSNT - 11019641

CALIBRATION COEFFICIENTS

Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-2934.34	-3021.58	-7000.00 - -1000.00
Pad Gain	0.0003900	0.0003927	0.0002000 - 0.0006000
Arm Offset	-3023.74	-2984.46	-5000.00 - 3000.00
Arm Gain	0.0005200	0.0005114	0.000300 - 0.000700
Arm Power	-0.000005411	-0.000004687	-0.000010000 - 0.000010000

The ring diameter is computed from: DIAMETER = PAD EXTENSION + ARM EXTENSION + TOOL DIAMETER

Tool Diameter: 4.50 in

CALIBRATION RINGS

Measurement	Current Reading (Previous Coeff.)	Calibrated (New Coeff.)	Change	Control Limit On New Value
PAD EXTENSION:				
Small Ring (in)	2.02	2.00	-0.02	+/- 0.20
Medium Ring (in)	3.76	3.75	-0.01	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.54	6.50	-0.04	+/- 0.20
Medium Ring (in)	8.30	8.25	-0.05	+/- 0.20
Large Ring (in)	15.00	15.00	0.00	+/- 0.20

PASS/FAIL SUMMARY	
Calibration-Coefficients Range Check:	Passed
Ring-Measurement Check:	Passed

PASS/FAIL SUMMARY	
Calibration-Coefficients Range Check:	Passed

SDLT CALIPER FIELD CALIBRATION

Tool Name: SDLT - 10695352 **Reference Calibration Date:** 19-Aug-22 15:37:09

Engineer: J. Cabanzo **Calibration Date:** 19-Aug-22 15:38:25

Software Version: WL INSITE R6.6.7 (Build 8) **Calibration Version:** 1

MEASURED CALIPER VALUES

Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.76	0.01	+/- 0.10
Ring Diameter	8.25	8.24	-0.01	+/- 0.15

PASS/FAIL SUMMARY	
Pad Extension Check:	Passed
Diameter Check:	Passed

Diameter Check:	Passed

MICRO LOG SHOP CALIBRATION

Tool Name:	**Microlog Pad - 10695352**	**Reference Calibration Date:**	**19-Aug-22 15:26:27**
Engineer:	**M. GALLION**	**Calibration Date:**	**18-Sep-22 11:56:50**
Software Version:	**WL INSITE R6.6.5 (Build 5)**	**Calibration Version:**	**1**
Host Tool Name:	**DSNT - 11019641**		

CALIBRATION COEFFICIENT SUMMARY

Measurement	Micro Log Normal		Micro Log Lateral		
	Measured	Calibrated	Measured	Calibrated	Units
Tool Zero	-0.07	-0.05	-0.01	0.01	ohmm
Calibration Point #1	0.00	0.02	-0.00	0.02	ohmm
Calibration Point #2	20.00	20.00	20.00	20.00	ohmm
Internal Reference	19.93	19.93	19.99	20.00	ohmm

Measurement	Micro Log Normal Tool Value	Micro Log Lateral Tool Value	Units
Tool Zero	-0.11	0.29	V
Calibration Point #1	18.75	2.31	V
Calibration Point #2	5342.97	6961.14	V
Internal Reference	5325.50	6960.16	V

MICRO LOG FIELD CHECK

Tool Name:	**Microlog Pad - 10695352**	**Reference Calibration Date:**	**18-Sep-22 11:56:50**
Engineer:	**M. GALLION**	**Calibration Date:**	**18-Sep-22 11:57:39**
Software Version:	**WL INSITE R6.6.5 (Build 5)**	**Calibration Version:**	**1**

Measurement	Micro Log Normal		Micro Log Lateral		
	Shop	Field	Shop	Field	Units
Tool Zero	-0.05	-0.05	0.01	0.01	ohmm
Internal Reference	19.93	19.94	20.00	20.00	ohmm

Summary

Signal	Shop	Field	Difference	Tolerence
Microlog Normal	19.93	19.94	-0.01	+/- 0.80
Microlog Lateral	20.00	20.00	0.00	+/- 0.80

SPECTRAL DENSITY SHOP CALIBRATION

Tool Name:	**SDLT Pad - 10865883**	**Reference Calibration Date:**	**18-Aug-22 15:18:35**
Engineer:	**J. Cabanzo**	**Calibration Date:**	**18-Aug-22 15:40:41**
Software Version:	**WL INSITE R6.6.7 (Build 8)**	**Calibration Version:**	**1**

Logging Source S/N: 5406GW

Aluminum Block S/N: 10585329	Density: 2.595g/cc	Pe: 3.270
Magnesium Block S/N: 10585330	Density: 1.679g/cc	Pe: 2.580

DENSITY CALIBRATION SUMMARY

Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0268	1.0413	0.90 - 1.10
Near Dens Gain	1.0028	1.0178	0.90 - 1.10
Near Peak Gain	1.0111	1.0223	0.90 - 1.10
Near Lith Gain	0.9937	1.0032	0.90 - 1.10
Far Bar Gain	1.0130	1.0125	0.90 - 1.10
Far Dens Gain	1.0018	1.0019	0.90 - 1.10
Far Peak Gain	0.9966	0.9966	0.90 - 1.10

Far Peak Gain	0.9966	0.9966	0.90 - 1.10
Far Lith Gain	0.9721	0.9764	0.90 - 1.10
Near Bar Offset	0.0440	-0.0871	NONE
Near Dens Offset	0.2346	0.1031	NONE
Near Peak Offset	0.1484	0.0544	NONE
Near Lith Offset	0.2572	0.1772	NONE
Far Bar Offset	0.0901	0.0959	NONE
Far Dens Offset	0.1963	0.1949	NONE
Far Peak Offset	0.2260	0.2243	NONE
Far Lith Offset	0.3754	0.3427	NONE
Near Bar Background	926.68	925.11	700 - 1450
Near Dens Background	305.57	305.68	230 - 480
Near Peak Background	132.20	132.48	100 - 210
Near Lith Background	164.41	164.83	125 - 260
Far Bar Background	582.80	586.26	450 - 900
Far Dens Background	228.90	229.53	175 - 345
Far Peak Background	90.63	91.49	70 - 140
Far Lith Background	94.02	94.43	75 - 145

CALIBRATION BLOCK SUMMARY

Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.678	1.678	0.000	+/- 0.015
Pe	2.546	2.552	0.006	+/- 0.150
ALUMINUM				
Density (g/cc)	2.596	2.595	-0.001	+/- 0.01500
Pe	3.221	3.228	0.007	+/- 0.150

TOOL SUMMARY

Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	0.0014	+/- 0.0110	0.0003	+/- 0.0140
Magnesium Block	-0.0006	+/- 0.0110	-0.0014	+/- 0.0140
Aluminum Block	-0.0004	+/- 0.0110	-0.0004	+/- 0.0140
Resolution	8.83	6.00 - 11.50	8.98	6.00 - 11.50
Internal Verifier(B+D+P+L)	1528	1200 - 2700	1002	800 - 1700

PASS/FAIL SUMMARY

Background Quality Check:	Passed
Background Range Check:	Passed
Background Resolution Check:	Passed
Background Verification Check:	Passed
Magnesium Quality Check:	Passed
Aluminum Quality Check:	Passed
Gains Check:	Passed
Changes in Calibration Blocks:	Passed

SPECTRAL DENSITY FIELD CHECK

Tool Name: SDLT Pad - 10865883 **Reference Calibration Date:** 18-Aug-22 15:40:41

Engineer: M. CALLION **Calibration Date:** 17-Sep-22 19:26:40

Engineer:	**M. GALLION**	**Calibration Date:**	**17-Sep-22 19:26:40**
Software Version:	**WL INSITE R6.6.5 (Build 5)**	**Calibration Version:**	**1**

Pad Temperature: 96.0 degF

DENSITY FIELD CALIBRATION SUMMARY

Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1528.096	1528.486	0.390	15.742
Far (B+D+P+L) cps	1001.708	996.589	-5.119	16.936
Near Resolution	8.83	8.77	-0.060	0.50
Far Resolution	8.98	8.90	-0.080	1.00

PASS/FAIL SUMMARY

Bkg Quality Check:	Passed
Bkg Resolution Check:	Passed
Bkg Verification Check:	Passed

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION

Tool Name:	**ACRt Sonde - 10933411**	**Reference Calibration Date:**	**10-Mar-22 11:52:39**
Engineer:	**MOHAMED ABUELGASIM**	**Calibration Date:**	**17-Jun-22 12:35:28**
Software Version:	**WL INSITE R6.6.7 (Build 8)**	**Calibration Version:**	**1**
Host Tool Name:	**ACRt Instrument - 10967817**		

TYPICAL GAIN RANGE

Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.0093	1.05	0.95	1.0097	1.05	0.95	1.0029	1.05
A2 (50")	0.95	1.0129	1.05	0.95	1.0137	1.05	0.95	1.0066	1.05
A3 (29")	0.95	1.0093	1.05	0.95	1.0074	1.05	0.95	1.0011	1.05
A4 (17")	0.95	1.0092	1.05	0.95	1.0064	1.05	0.95	1.0040	1.05
A5 (10")	N/A	N/A	N/A	0.95	0.9991	1.05	0.95	0.9969	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9833	1.05	0.95	0.9814	1.05

SONDE OFFSET

Subarray	R12KHz	R36KHz	R72KHz
	(mmho/m)	(mmho/m)	(mmho/m)
A1 (80")	-0.514	-4.153	-5.096
A2 (50")	-1.142	-3.528	-4.869
A3 (29")	-10.576	-3.717	-3.307
A4 (17")	-100.911	-32.858	-26.318
A5 (10")	N/A	-93.684	-45.343
A6 (6")	N/A	345.620	160.599

TRANSMITTER CURRENT GAIN

Signal	Lower	R	Upper
12K	0.6	0.94	1.3
36K	1.0	1.85	2.0
72K	1.0	1.18	2.0

R-MUD VERIFICATION

Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
Mud Cell	0.95	1.00	1.05

PASS/FAIL SUMMARY

GAIN RANGE CHK	PASS
SONDE OFFSET CHK	PASS

TOOL OK TO LOG

TOOL OK TO LOG

CALIBRATION SUMMARY

Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11405267						
Gamma Ray Calibrator	206.6	----------	----------	0.0	+/- 9.00	api
DSNT-11019641						
Snow-Block Porosity	0.0589	0.0712	----------	-0.0123	+/- 0.0150	decp
SDLT-10695352						
Pad Extension	3.75	3.76	----------	-0.01	+/-0.10	in
Ring Diameter	8.25	8.24	----------	0.01	+/-0.15	in
Microlog Pad-10695352						
MicroLog Normal	19.93	19.94	----------	-0.01	+/-0.80	ohmm
MicroLog Lateral	20.00	20.00	----------	0.00	+/-0.80	ohmm
SDLT Pad-10865883						
Near(B+D+P+L)	1528.096	1528.486	----------	-0.390	+/-15.742	cps
Far(B+D+P+L)	1001.708	996.589	----------	5.119	+/-16.936	cps
ACRt Sonde-10933411						
Mud Cell	1.00	----------	----------	0	----------	ohm-m

Data: 09_26_MERIT\0001 GTET-DSNT-SDLT-BSAT-ACRT\IDLE **Date: 26-Sep-22 20:48:03**

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PARAMETERS REPORT

Depth (ft)	Tool Name	Mnemonic	Description	Value	Units
TOP					
	SHARED	BS	Bit Size	7.875	in
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	MDBS	Mud Base	Water	
	SHARED	MDWT	Borehole Fluid Weight	9.200	ppg
	SHARED	WAGT	Weighting Agent	Barite	
	SHARED	BSAL	Borehole salinity	0.00	ppm
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%
	SHARED	RMUD	Mud Resistivity	1.000	ohmm
	SHARED	TRM	Temperature of Mud	75.0	degF
	SHARED	CSD	Logging Interval is Cased?	No	
	SHARED	ICOD	AHV Casing OD	5.500	in
	SHARED	CSTR	Compressive Strength	1000.00	psia
	SHARED	ST	Surface Temperature	75.0	degF
	SHARED	TD	Total Well Depth	5173.00	ft
	SHARED	BHT	Bottom Hole Temperature	200.0	degF
	SHARED	SVTM	Navigation and Survey Master Tool	NONE	
	SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET	
	SHARED	TEMM	CBM Temperature Master Tool	GTET	
	SHARED	MSAL	Water-base mud filtrate salinity	0.00	ppm
	Rwa / CrossPlot	XPOK	Process Crossplot?	Yes	
	Rwa / CrossPlot	FCHO	Select Source of F	Automatic	
	Rwa / CrossPlot	AFAC	Archie A factor	0.6200	
	Rwa /	MFAC	Archie M factor	2.1500	

CrossPlot	MFAC	Archie M factor	2.1500	
Rwa / CrossPlot	RMFR	Rmf Reference	0.10	ohmm
Rwa / CrossPlot	TMFR	Rmf Ref Temp	75.00	degF
Rwa / CrossPlot	RWA	Resistivity of Formation Water	0.05	ohmm
Rwa / CrossPlot	ADP	Use Air Porosity to calculate CrossplotPhi	No	
Rwa / CrossPlot	BHSM	Borehole Size Source Tool	SDLT	
Rwa / CrossPlot	ROIN	Input for RO Calculation	Rwa	
GTET	ACOK	Do ACCZ Calculations?	Yes	
GTET	GROK	Process Gamma Ray?	Yes	
GTET	GEOK	Process Gamma Ray EVR?	No	
GTET	TPOS	Tool Position for Gamma Ray Tools.	Eccentered	
GTET	BHSM	Borehole Size Source Tool	SDLT	
DSNT	DNOK	Process DSN?	Yes	
DSNT	DEOK	Process DSN EVR?	No	
DSNT	NLIT	Neutron Lithology	Limestone	
DSNT	DNSO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.250	in
DSNT	DNTT	Temperature Correction Type	None	
DSNT	DPRS	DSN Pressure Correction Type	None	
DSNT	SHCO	View More Correction Options	No	
DSNT	UTVD	Use TVD for Gradient Corrections?	No	
DSNT	LHWT	Logging Horizontal Water Tank?	No	
DSNT	UCLA	Classic Neutron Parameter utilized?	No	
DSNT	BHSM	Borehole Size Source Tool	SDLT	
SDLT	CLOK	Process Caliper Outputs?	Yes	
Microlog Pad	MLOK	Process MicroLog Outputs?	Yes	
SDLT Pad	DNOK	Process Density?	Yes	
SDLT Pad	DNOK	Process Density EVR?	No	
SDLT Pad	CB	Logging Calibration Blocks?	No	
SDLT Pad	SPVT	SDLT Pad Temperature Valid?	Yes	
SDLT Pad	DTWN	Disable temperature warning	No	
SDLT Pad	DMA	Formation Density Matrix	2.710	g/cc
SDLT Pad	DFL	Formation Density Fluid	1.000	g/cc
SDLT Pad	BHSM	Borehole Size Source Tool	SDLT	
BSAT	MBOK	Compute BCAS Results?	Yes	
BSAT	FLLO	Frequency Filter Low Pass Value?	5000	Hz
BSAT	FLHI	Frequency Filter High Pass Value?	27000	Hz
BSAT	DTFL	Delta -T Pore Fluid	189.00	uspf
BSAT	DTMT	Delta -T Matrix Type	Limestone 47.6	
BSAT	DTSH	Delta -T Shale	100.00	uspf
BSAT	SPEQ	Acoustic Porosity Equation	Wylie	
ACRt Sonde	RTOK	Process ACRt?	Yes	
ACRt Sonde	MNSO	Minimum Tool Standoff	1.50	in
ACRt Sonde	TCS1	Temperature Correction Source	FP Lwr & FP Upr	
ACRt Sonde	TPOS	Tool Position	Centered	
ACRt Sonde	RMOP	Rmud Source	Mud Cell	
ACRt Sonde	RMIN	Minimum Resistivity for MAP	0.20	ohmm
ACRt Sonde	RMAX	Maximum Resistivity for MAP	200.00	ohmm
ACRt Sonde	THQY	Threshold Quality	0.50	
ACRt Sonde	MRFX	Fixed mud resistivity	2000	ohmm
ACRt Sonde	BHSM	Borehole Size Source Tool	SDLT	
ACRt Sonde	MBFL	Apply Corkscrew Effect?	No	

BOTTOM

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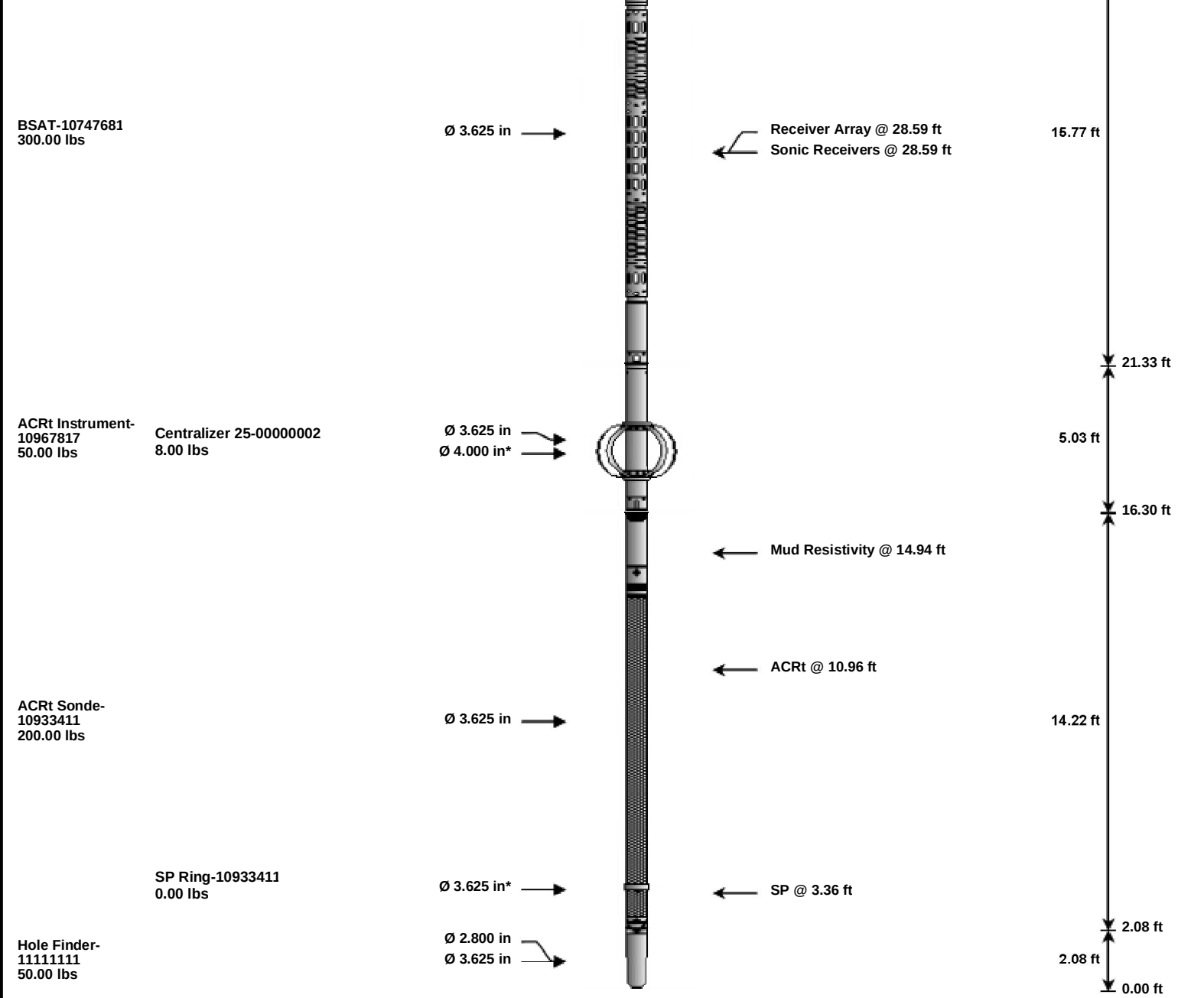
TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Sensors @ Delays	Length	Accumulated Length
					78.05 ft
		Ø 2.310 in	Fishing Neck @ 77.17 ft		
RWCH-12027540 135.00 lbs		Ø 3.625 in		6.25 ft	
			Load Cell @ 74.36 ft		
	Weak Point 12000 lbs- 00000012 0.01 lbs		BH Temperature @ 73.80 ft		
		Ø 0.010 in*			71.80 ft
			Z-Accelerometer @ 71.35 ft		
GTET-11405267 165.00 lbs		Ø 3.625 in		8.52 ft	
			GammaRay @ 65.74 ft		
					63.28 ft
	DSN Decentralizer- 11019643 6.60 lbs	Ø 5.000 in*			
DSNT-11019641 174.00 lbs		Ø 3.625 in		9.69 ft	
			DSN Far @ 56.34 ft		
			DSN Near @ 55.59 ft		
					53.59 ft
	SDLT Pad-10865883 65.00 lbs				
SDLT-10695352 360.00 lbs		Ø 4.500 in		10.81 ft	
	Microlog Pad-10695352 8.00 lbs	Ø 4.500 in*			
		Ø 4.750 in*	Microlog @ 45.78 ft		
	RAM-Cs137-10020004 1.00 lbs		SDL Caliper @ 45.59 ft		
		Ø 0.800 in*	SDL @ 45.58 ft		
					42.78 ft
Flex Joint-10883966 140.00 lbs		Ø 3.625 in		5.67 ft	
					37.11 ft
	Centralizer 25-00000001 8.00 lbs	Ø 4.000 in*			



Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)		Accumulated Length (ft)	Max.Log. Speed (fpm)
RWCH	Releasable Wireline Cable Head	12027540	135.00	6.25		71.80	300.00
WP12K	Weak Point 12000 lbs	00000012	0.01	0.01	*	72.60	300.00
GTET	Gamma Telemetry Tool	11405267	165.00	8.52		63.28	60.00
DSNT	Dual Spaced Neutron	11019641	174.00	9.69		53.59	60.00
DCNT	DSN Decentralizer	11019643	6.60	5.13	*	56.92	300.00
SDLT	Spectral Density Tool	10695352	360.00	10.81		42.78	60.00
SDLP	Density Insite Pad	10865883	65.00	2.55	*	44.99	60.00
Cs137	Logging Source, SDLT-I, 1.78 Ci - Cs137	10020004	1.00	0.80	*	45.22	300.00
MICP	Microlog Pad	10695352	8.00	1.00	*	45.28	60.00
FLEX	Flex Joint	10883966	140.00	5.67		37.11	300.00
BSAT	Borehole Sonic Array Tool	10747681	300.00	15.77		21.33	60.00
OBCEN	Centralizer - 25 in. Overbody	00000001	8.00	2.08	*	33.99	300.00
ACRt	Array Compensated True Resistivity Instrument Section	10967817	50.00	5.03		16.30	120.00
OBCEN	Centralizer - 25 in. Overbody	00000002	8.00	2.08	*	17.29	300.00
ACRt	Array Compensated True Resistivity Sonde Section	10933411	200.00	14.22		2.08	120.00
SP	SP Ring	10933411	0.00	0.25	*	3.36	300.00
HFND	Hole Finder	11111111	50.00	2.08		0.00	300.00
Total			**1,670.61**	**78.05**			

* Not included in Total Length and Length Accumulation.

Data: 09_26_MERIT\0001 GTET-DSNT-SDLT-BSAT-ACRT\IDLE **Date: 26-Sep-22 18:49:20**

COMPANY	**MERIT ENERGY COMPANY, LLC**		
WELL	**CELONA No. 1-12**		
FIELD	**ST LOUIS**		
COUNTY	**FINNEY**	STATE	**KS**

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DUAL SPACED NEUTRON
SPECTRAL DENSITY