HALLIBURTON

BOREHOLE COMPENSATED SONIC ARRAY

COMPANY MERIT ENERGY COMPANY, LLC
WELL NORTH REEVE 1-11
FIELD/BLOCK WILDCAT
COUNTY FINNEY STATE KS

COMPANY MERIT ENERGY COMPANY, LLC
WELL NORTH REEVE 1-11
FIELD/BLOCK WILDCAT
COUNTY FINNEY STATE KS

API No. 15055225460100
Location 2421' FWL & 2160' FSL
SE NE NE SW
Sect. 11 Twp. 25 Rge. 33W

Other Services:
GTET
DSNT-SDLT
BSAT
ACRT

Permanent Datum	GL	Elev. 2897.0 ft	Elev.: K.B. 2909.0 ft
Log measured from	KB	12.0 ft above perm. Datum	D.F. 2908.0 ft
Drilling measured from	KB		G.L. 2897.0 ft

Date		04-Oct-22					
Run No.		ONE					
Depth - Driller		5185.0 ft					
Depth - Logger		5185.0 ft					
Bottom - Logged Interval		5156.0 ft					
Top - Logged Interval		1796.0 ft					
Casing - Driller		8.625 in	@ 1795.0 ft	@		@	
Casing - Logger		1796.0 ft					
Bit Size		7.875 in		@		@	
Type Fluid in Hole		Water Based Mud					
Density	Viscosity	9.3 ppg	52.00 s/qt				
PH	Fluid Loss	10.50 pH	5.6 cptm				
Source of Sample		MUDPIT					
Rm @ Meas. Temperature		1.11 ohmm	@ 66.00 degF	@		@	
Rmf @ Meas. Temperature		0.97 ohmm	@ 66.00 degF	@		@	
Rmc @ Meas. Temperature		1.36 ohmm	@ 66.00 degF	@		@	
Source Rmf	Rmc	CHART	CHART				
Rm @ BHT		0.55 ohmm	@ 140.0 degF	@		@	
Time Since Circulation		07:45 hr					
Time on Bottom		04-Oct-22 06:58					
Max. Rec. Temperature		140.00 degF	@ 5180.0 ft	@		@	
Equipment	Location	12128583	ALVARADO, T				
Recorded By		K. BJERGA					
Witnessed By		M. LANGE					

Fold here

Sales Order Number: 908146768 API No.: 15055225460100 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.	ONE	Run No.		Run No.	
Serial No.	11405267	Serial No.	10747681	Serial No.		Serial No.	
Model No.	GTET	Model No.	BSAT	Model No.		Model No.	
Diameter	3.625"	No. of Cent.	2	Diameter		Diameter	
Detector Model No.	GTET	Spacing	0.5	Log Type		Log Type	
Type	SCINT			Source Type		Source Type	
Length	8"	LSA [Y/N]	y	Serial No.		Serial No.	
Distance to Source	10'	FWDA [Y/N]	Y	Strength		Strength	

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	5185'	1796'	REC	0 gapi	150 gapi	0.3decP	0.0decP	47.6 upsf						

DIRECTIONAL INFORMATION

Maximum Deviation	@	KOP	@

Remarks: FIRST LOG ON WELL, POSITIVE DEPTH CONTROL APPLIED

SCALES AND PRESENTATIONS ARE AS PER CUSTOMER REQUEST

TOOLS RAN IN COMBINATION AS PER TOOLSTRING DIAGRAM

ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING

CREW: C. HERRERA, B. EZEKWU, S. MORALES

THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES

HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.

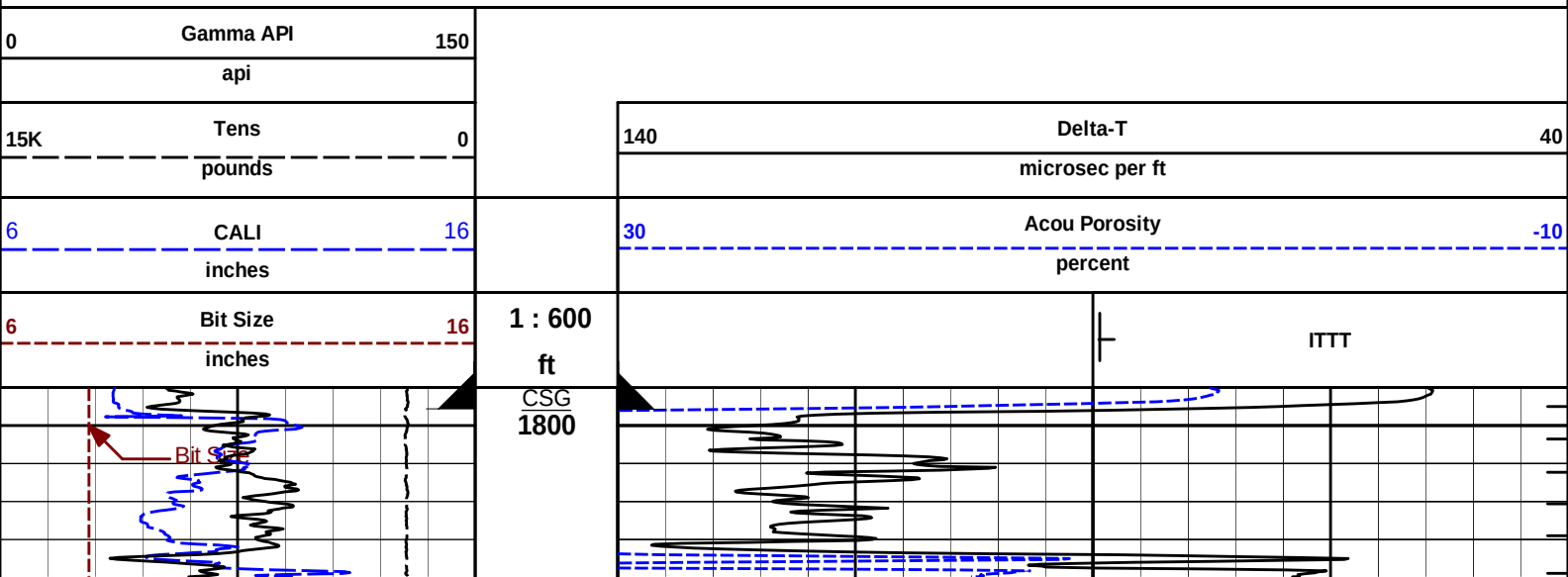
HALLIBURTON

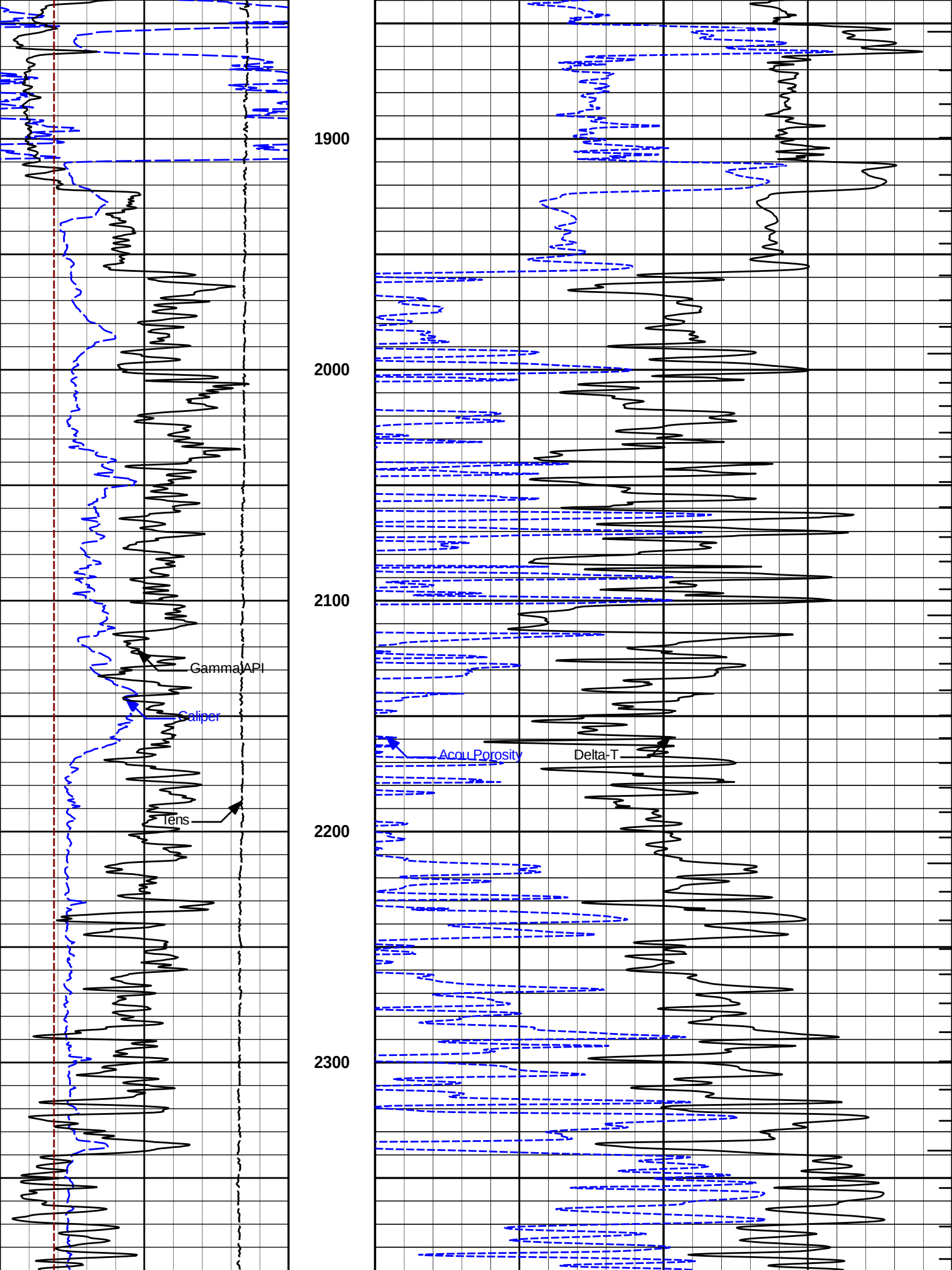
HALLIBURTON

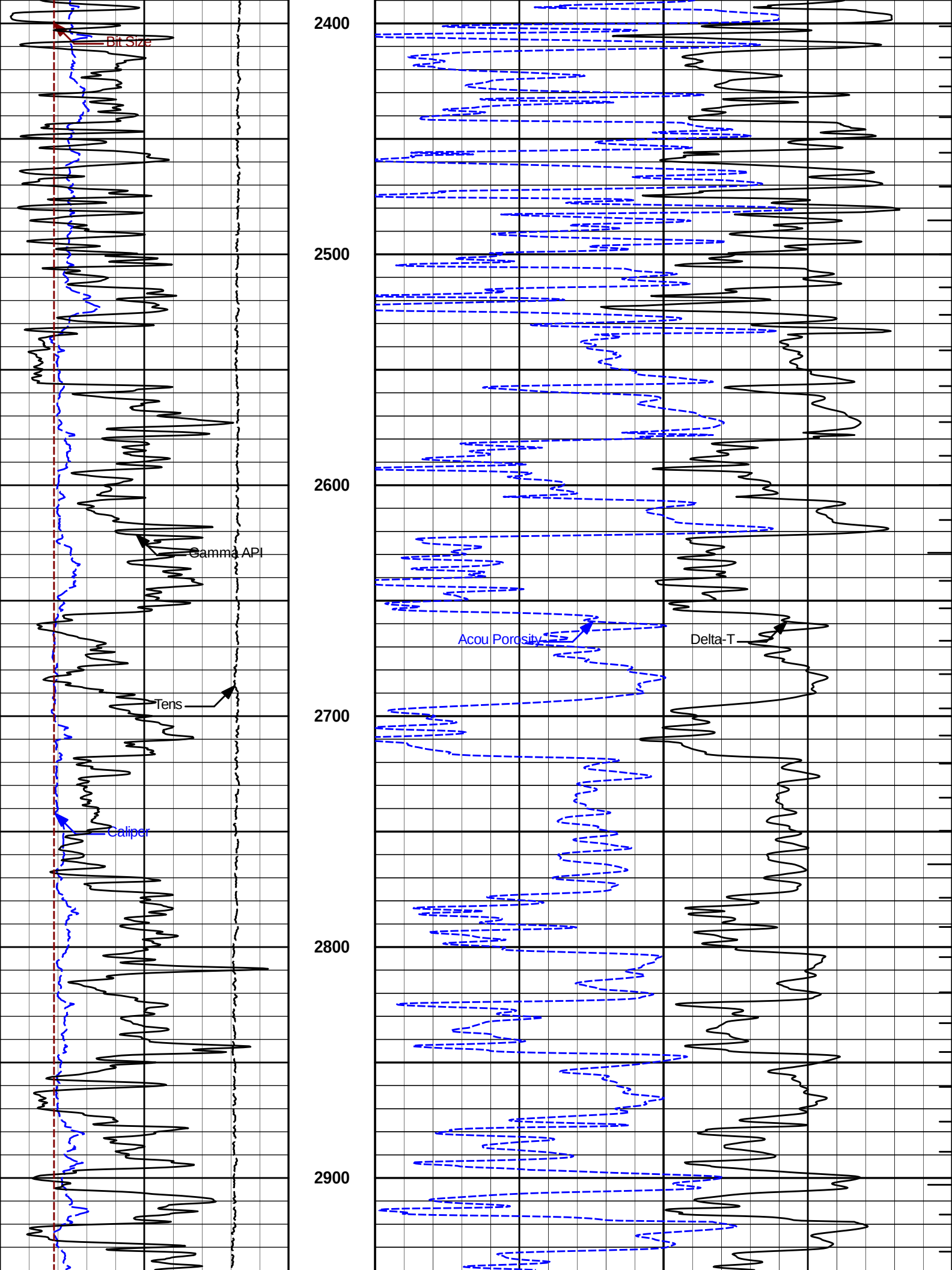
Plot Time: 04-Oct-22 09:39:03
Plot Range: 1790 ft to 5187 ft
Data: 10_04_MERIT\Well Based\DAQ-0001-005
Plot File: \\SONIC\BSAT_2inch

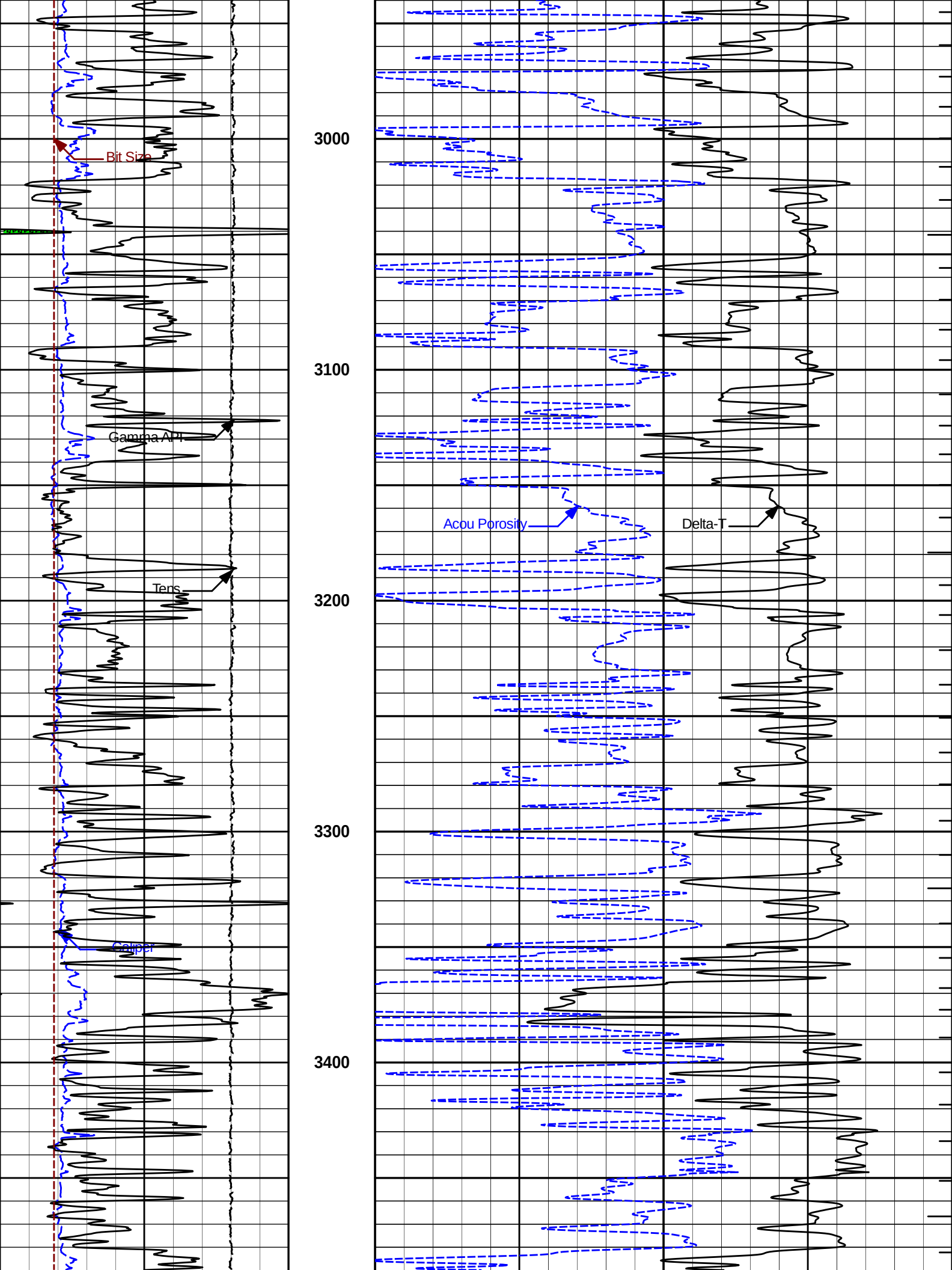
2 INCH MAIN LOG

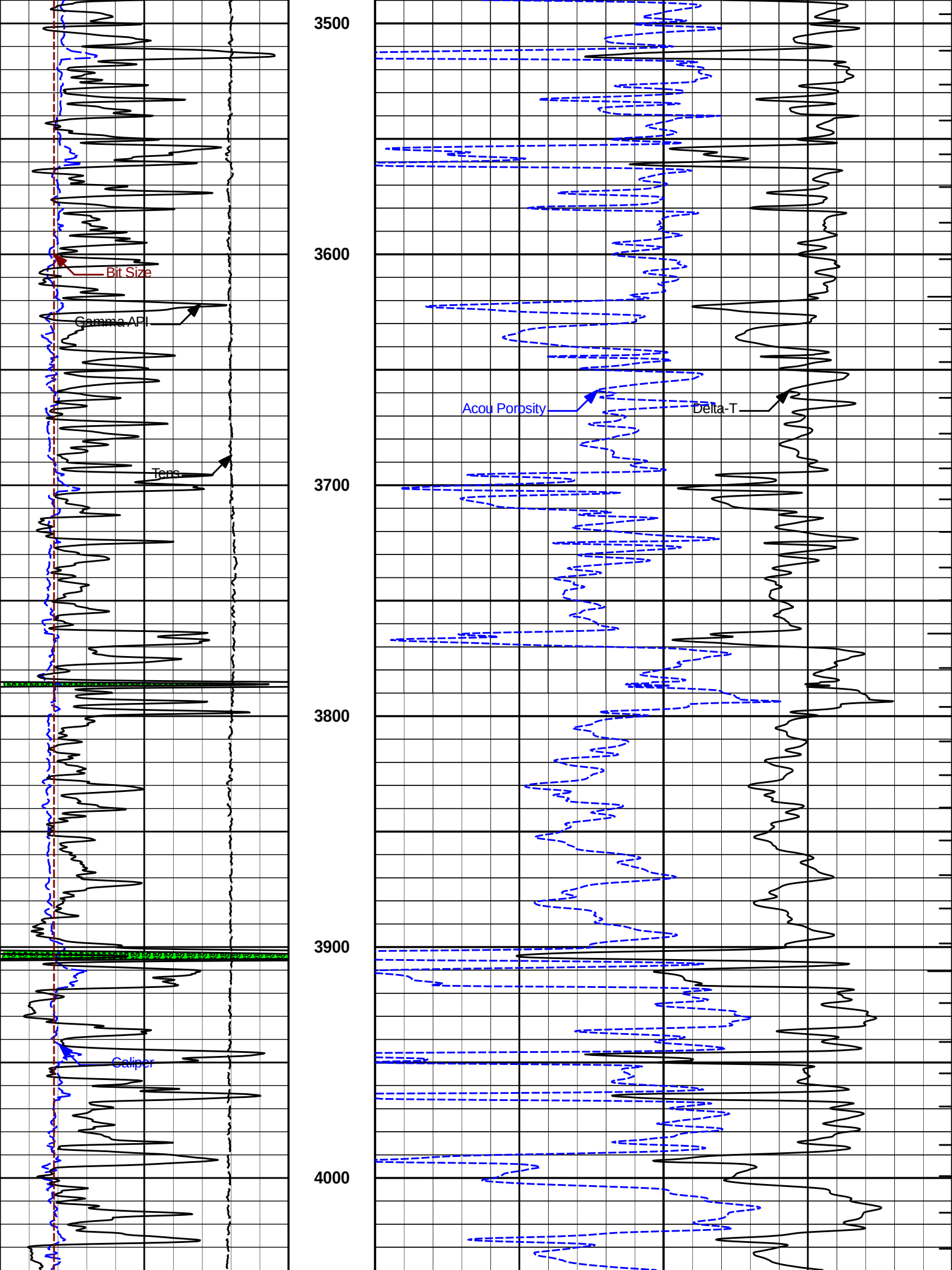
2" MAIN LOG SECTION

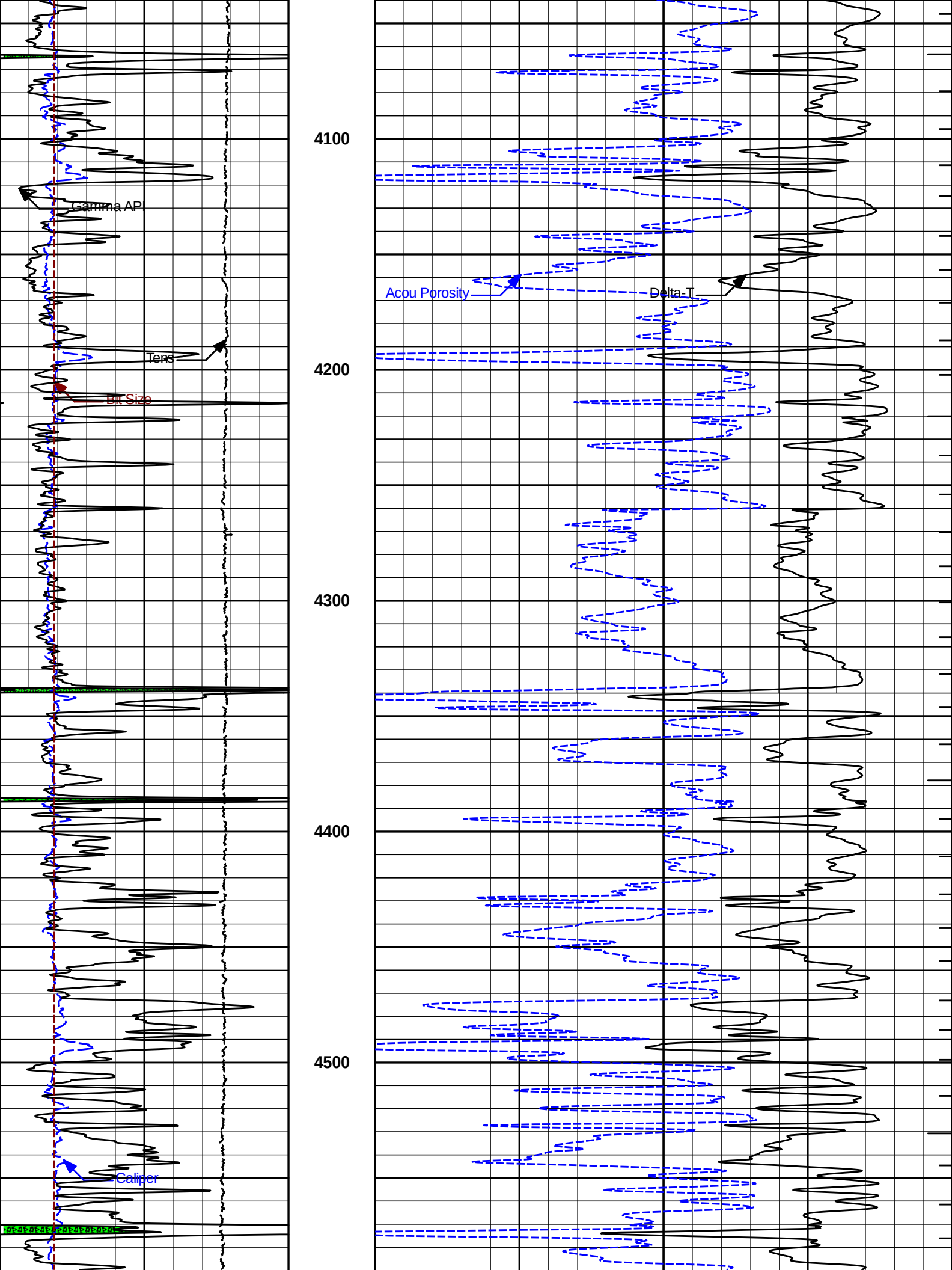


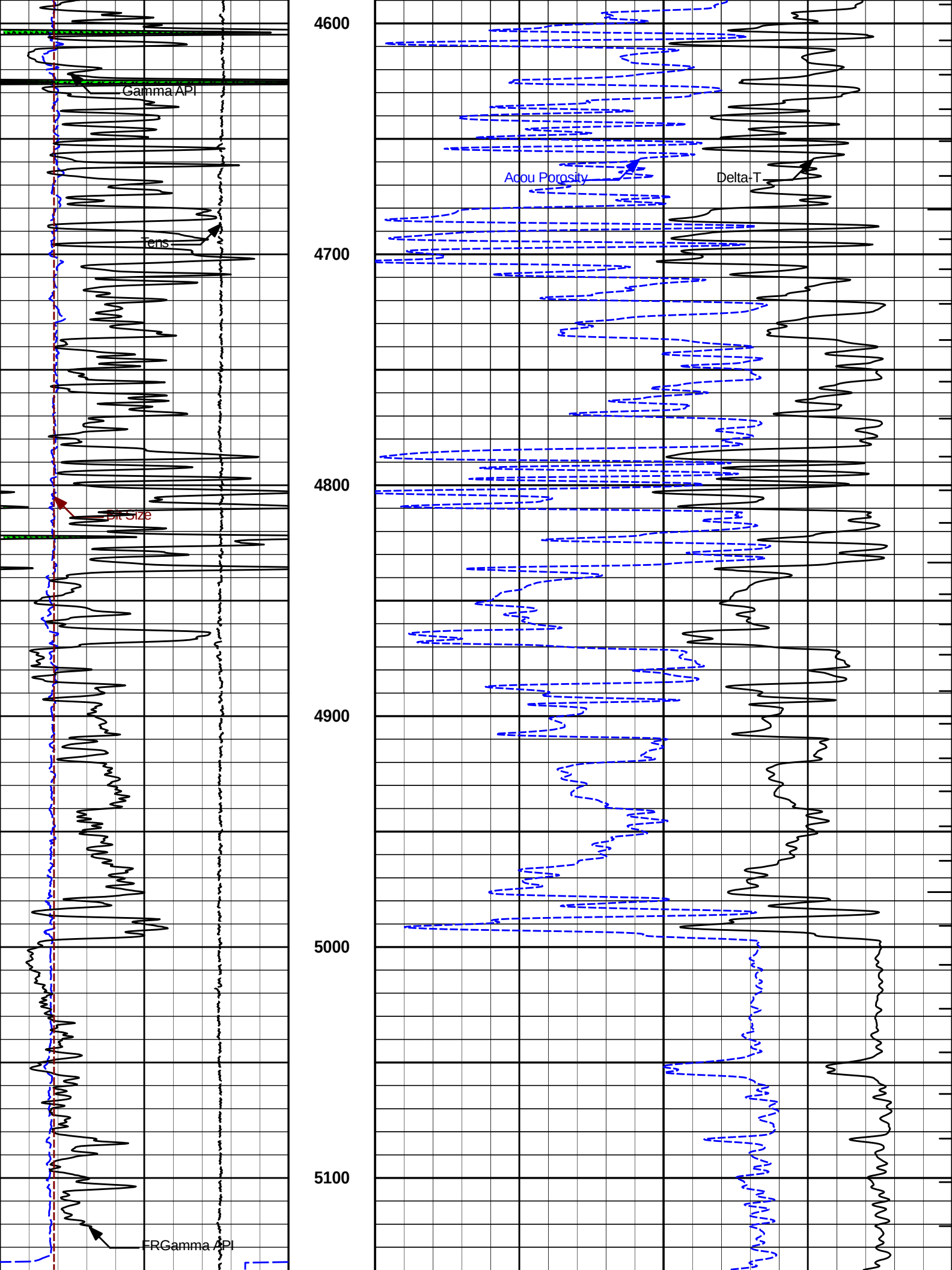

1900
2000
2100
2200
2300
Gamma API
Caliper
Tens
Acou Porosity
Delta-T

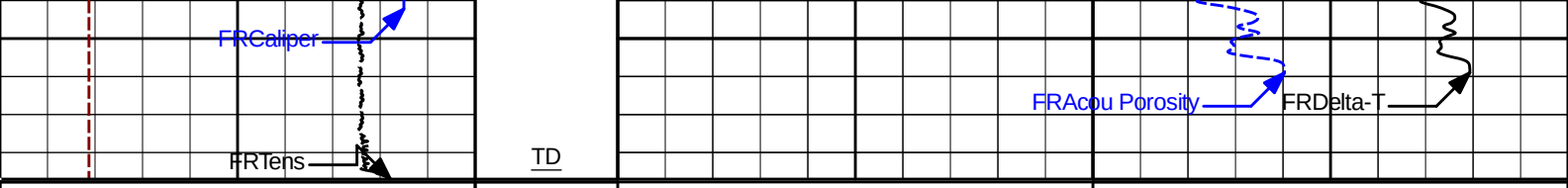

Bit Size
Gamma API
Tens
Caliper
2400
2500
2600
2700
2800
2900
Acou Porosity
Delta-T


Bit Size
Gamma API
Tens
Caliper
Acou Porosity
Delta-T
3000
3100
3200
3300
3400


3500
3600
3700
3800
3900
4000
Bit Size
Gamma API
Tens
Caliper
Acou Porosity
Delta-T


4100
4200
4300
4400
4500
Gamma API
Tens
Bit Size
Caliper
Acou Porosity
Delta-T


Gamma API
Tens
Bit Size
FRGamma API
Accu Porosity
Delta-T
4600
4700
4800
4900
5000
5100



6 Bit Size 16 / inches	1 : 600 ft	ITTT
6 CALI 16 / inches		30 Acou Porosity -10 / percent
15K Tens 0 / pounds		140 Delta-T 40 / microsec per ft
0 Gamma API 150 / api		

HALLIBURTON

Plot Time: 04-Oct-22 09:39:06
Plot Range: 1790 ft to 5187 ft
Data: 10_04_MERIT\Well Based\DAQ-0001-005\
Plot File: \\SONIC\BSAT_2inch

2 INCH MAIN LOG

2" MAIN LOG SECTION

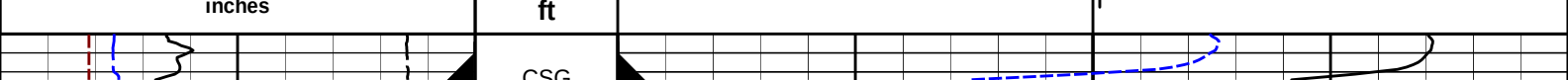
HALLIBURTON

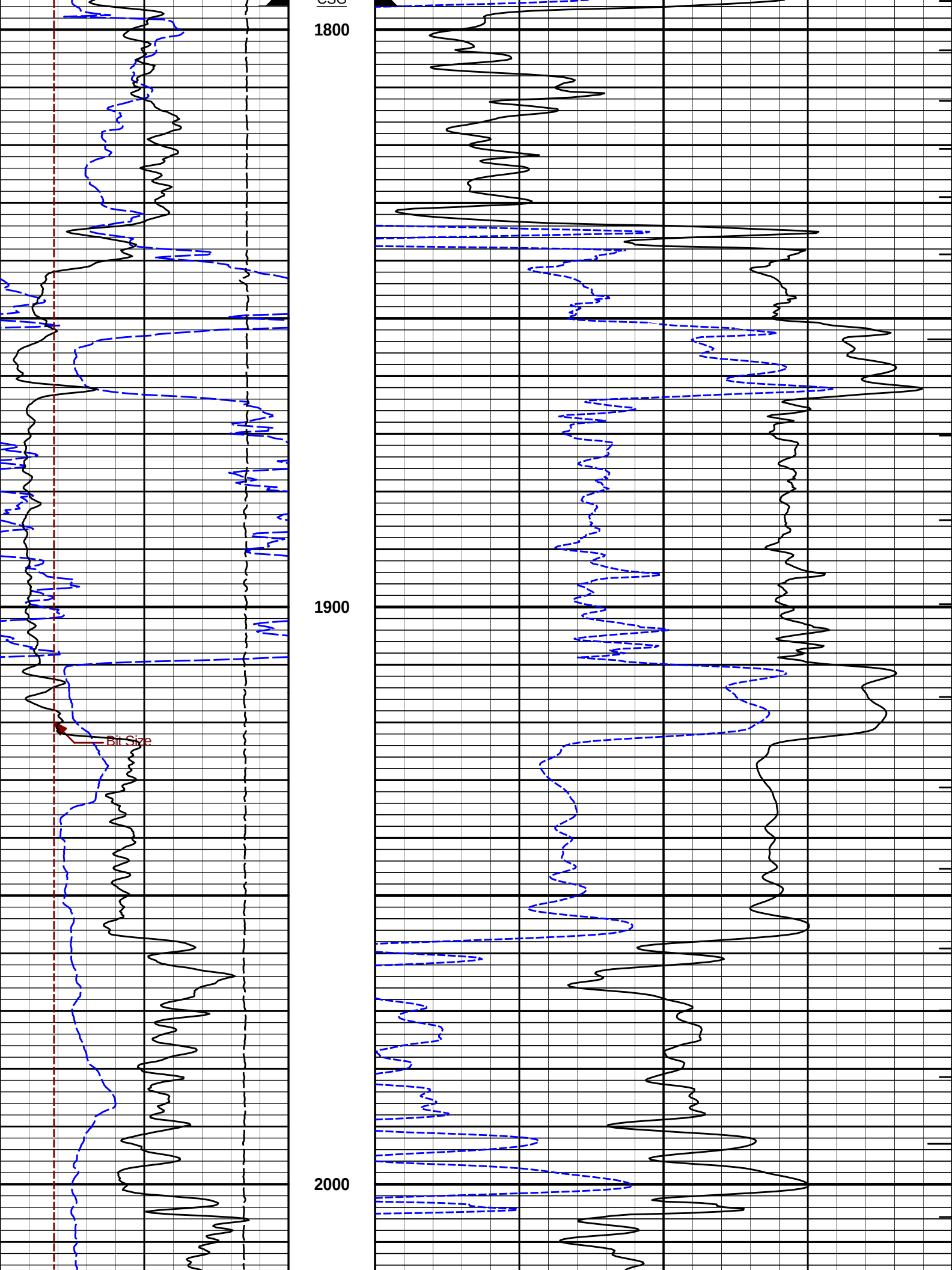
Plot Time: 04-Oct-22 09:39:06
Plot Range: 1790 ft to 5187 ft
Data: 10_04_MERIT\Well Based\DAQ-0001-005\
Plot File: \\SONIC\BSAT_5inch

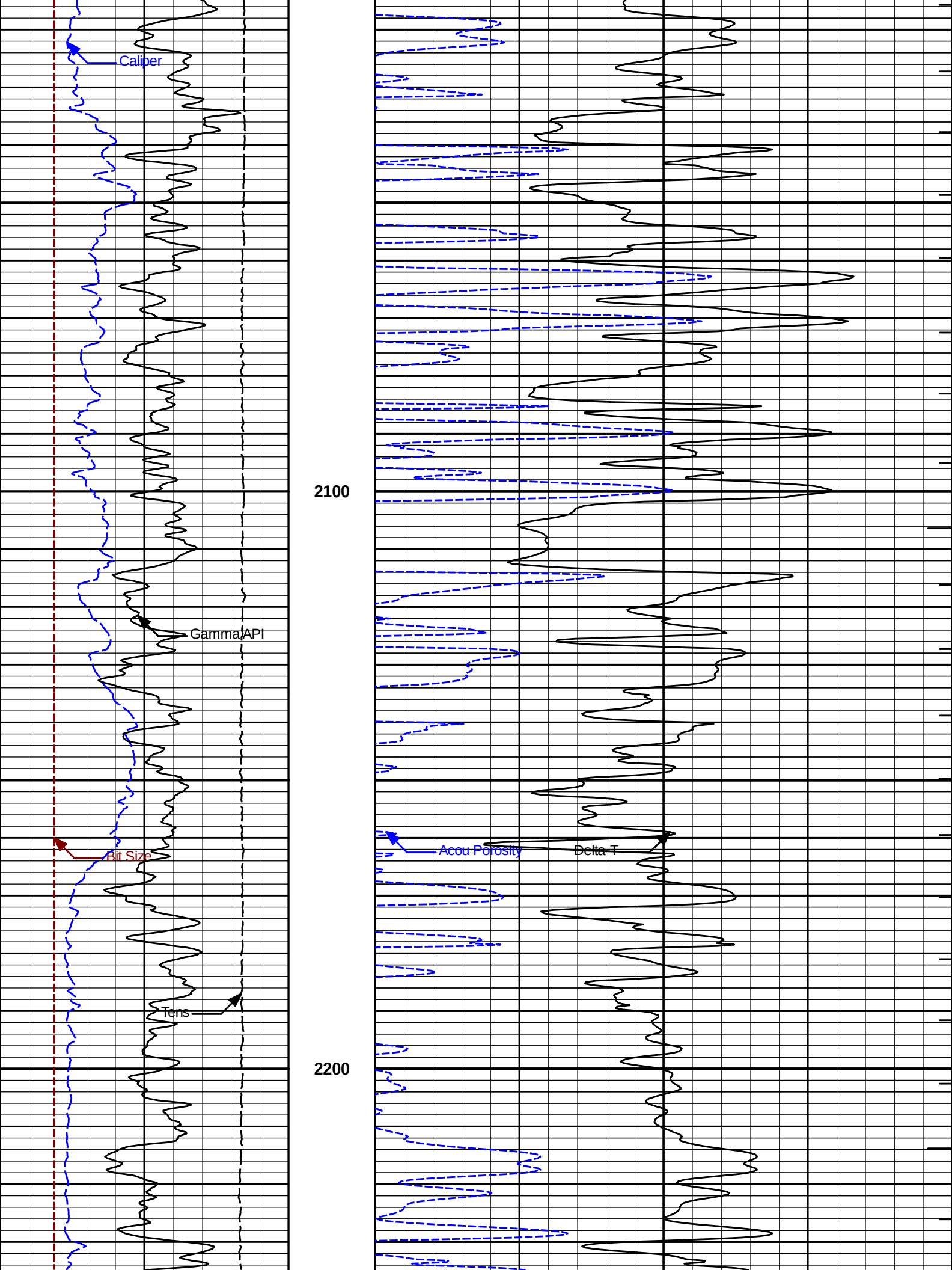
5 INCH MAIN LOG

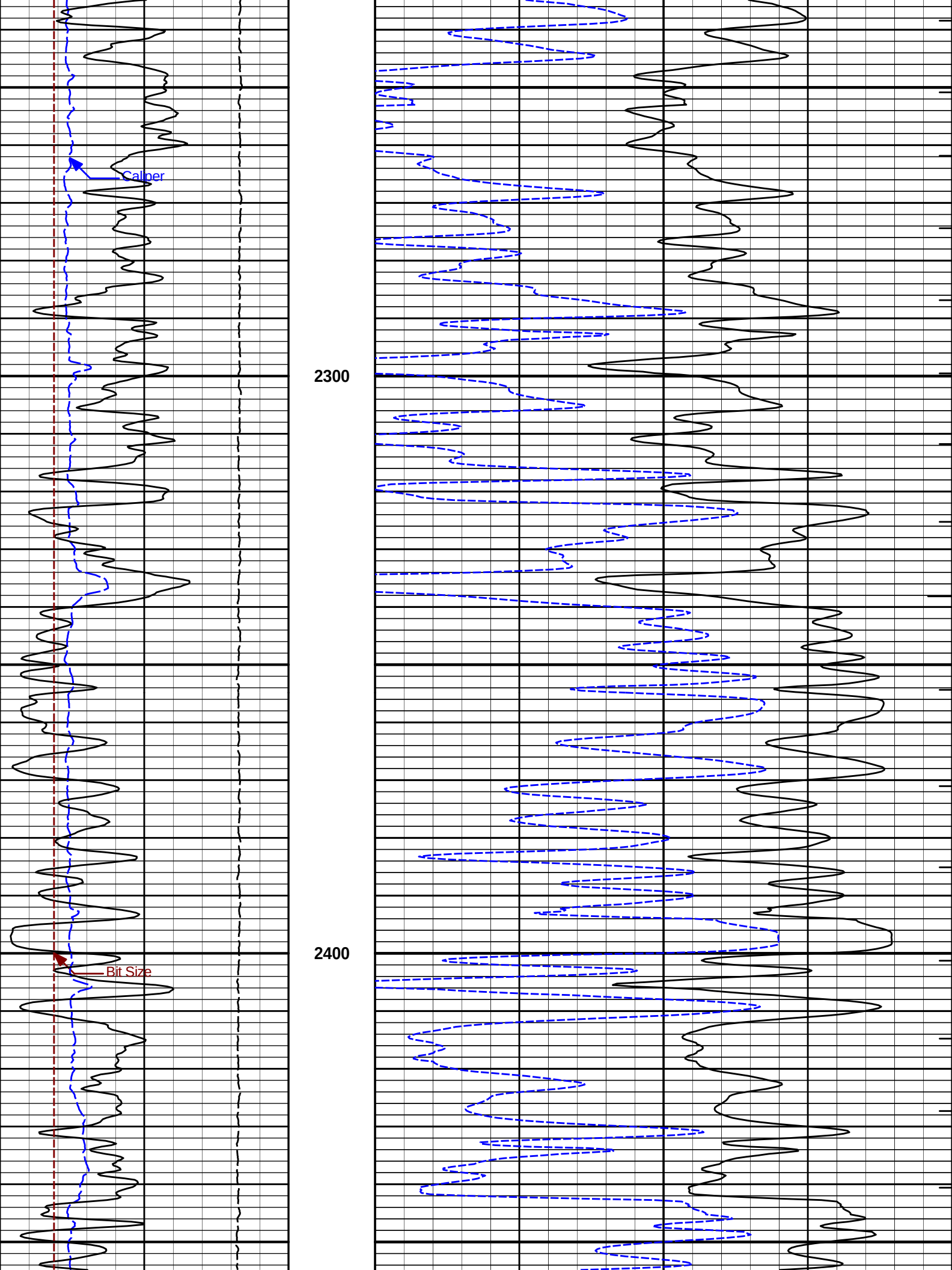
MAIN LOG SECTION

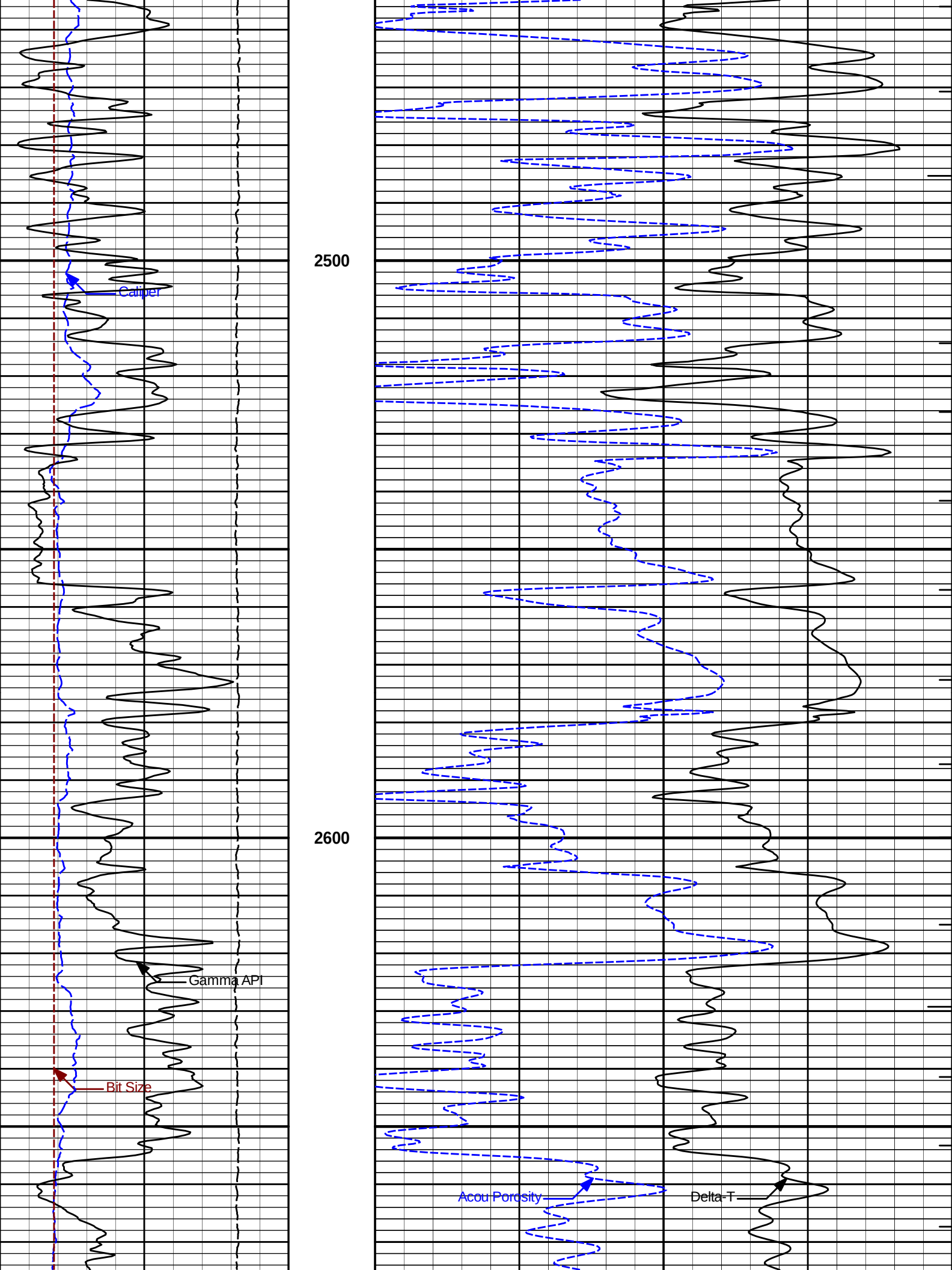
0 Gamma API 150 / api		
15K Tens 0 / pounds		30 Acou Porosity -10 / percent
6 CALI 16 / inches		140 Delta-T 40 / microsec per ft
6 Bit Size 16 / inches	1 : 240 ft	ITTT

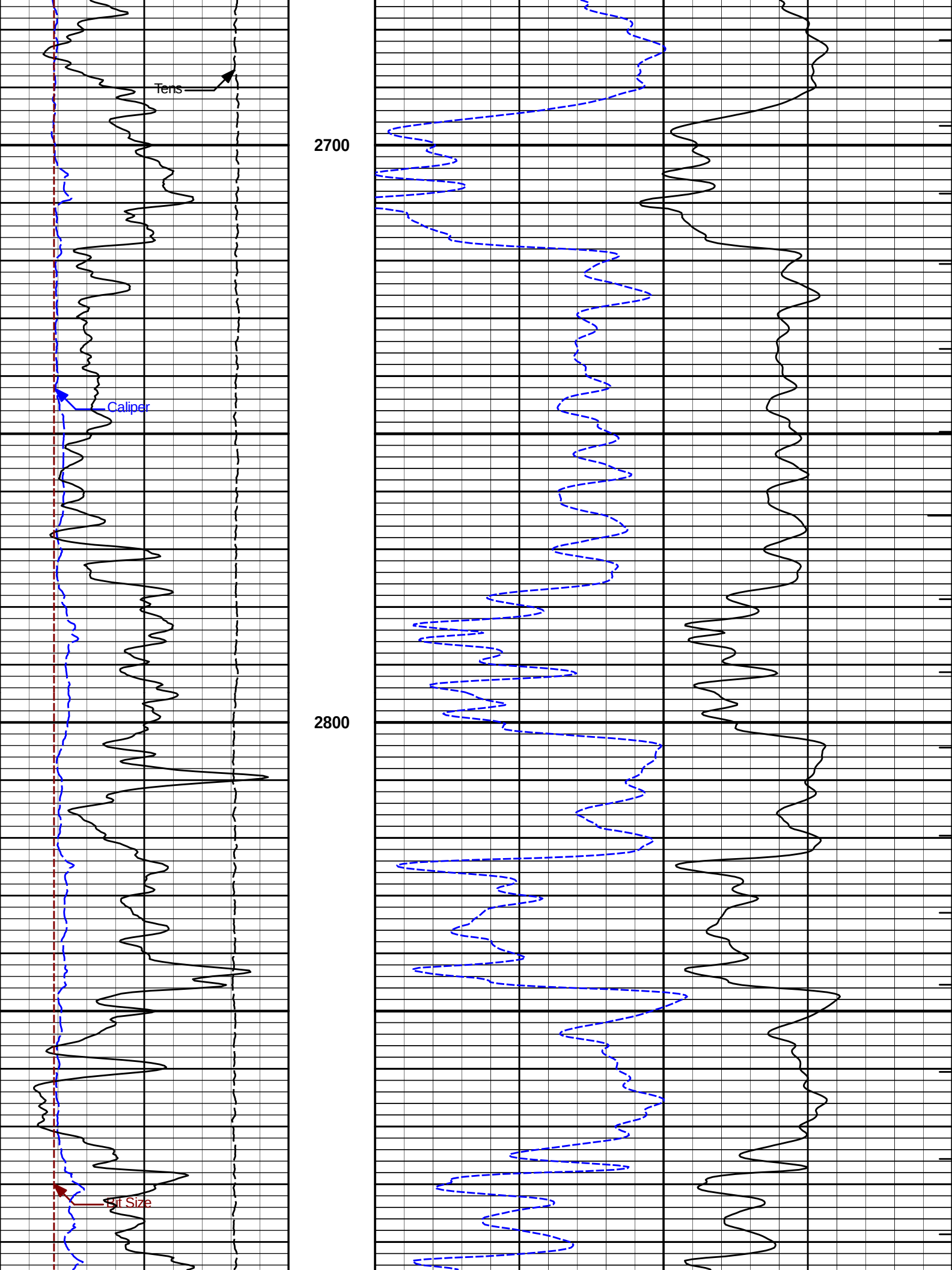


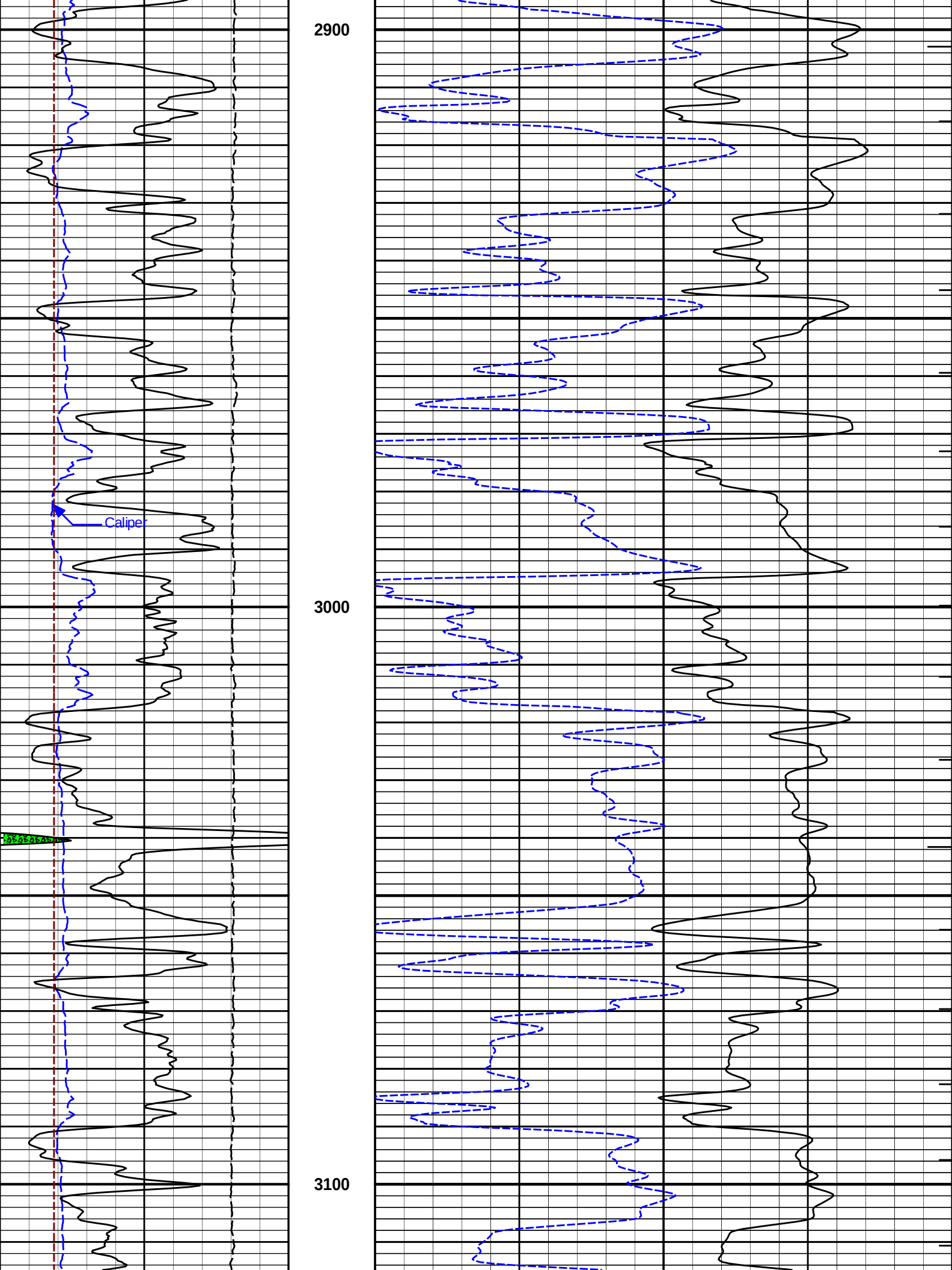

CSG
1800
1900
2000
Bit Size

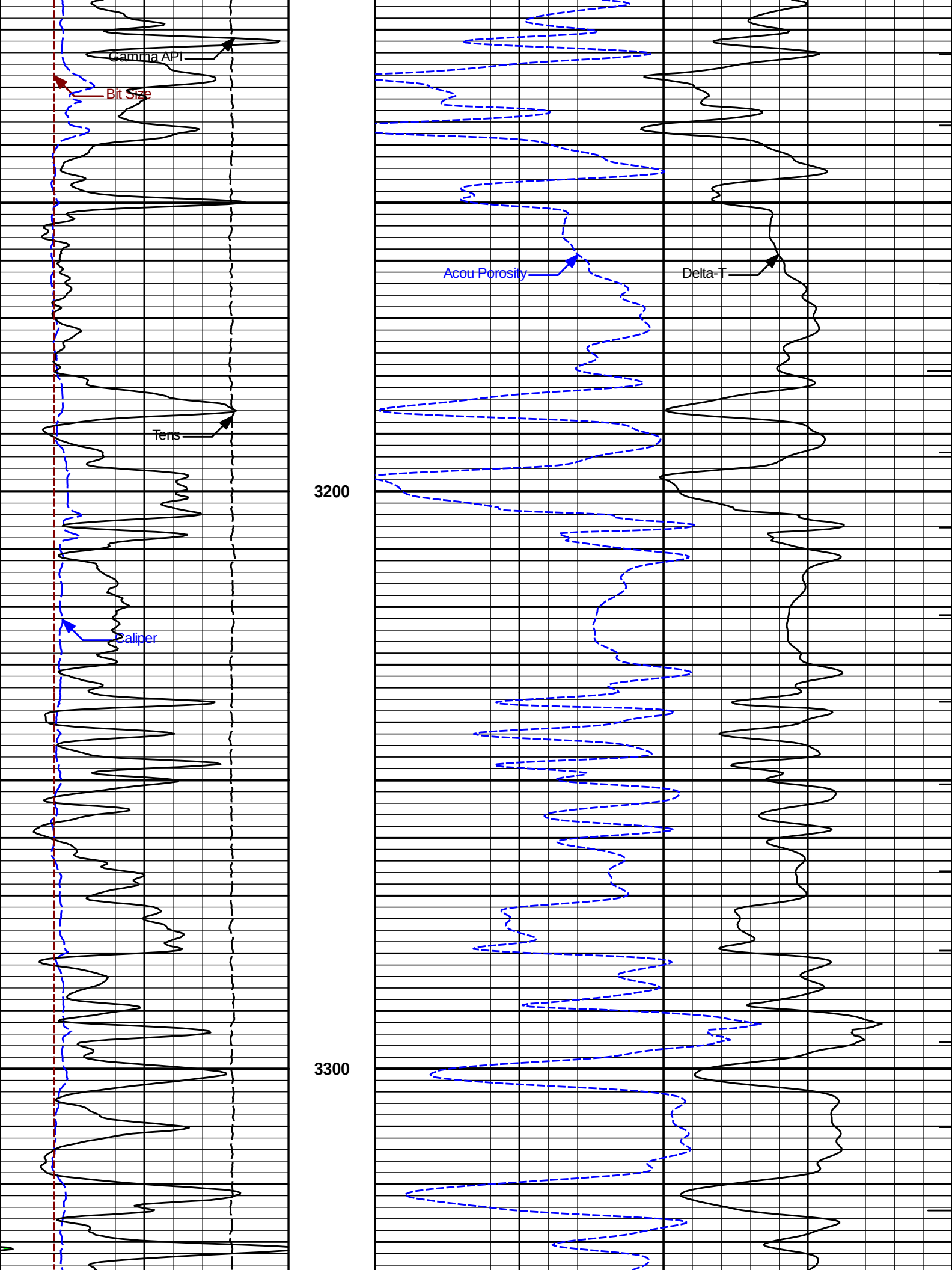

Caliper
Gamma/API
Bit Size
Tens
Acou Porosity
Delta T
2100
2200

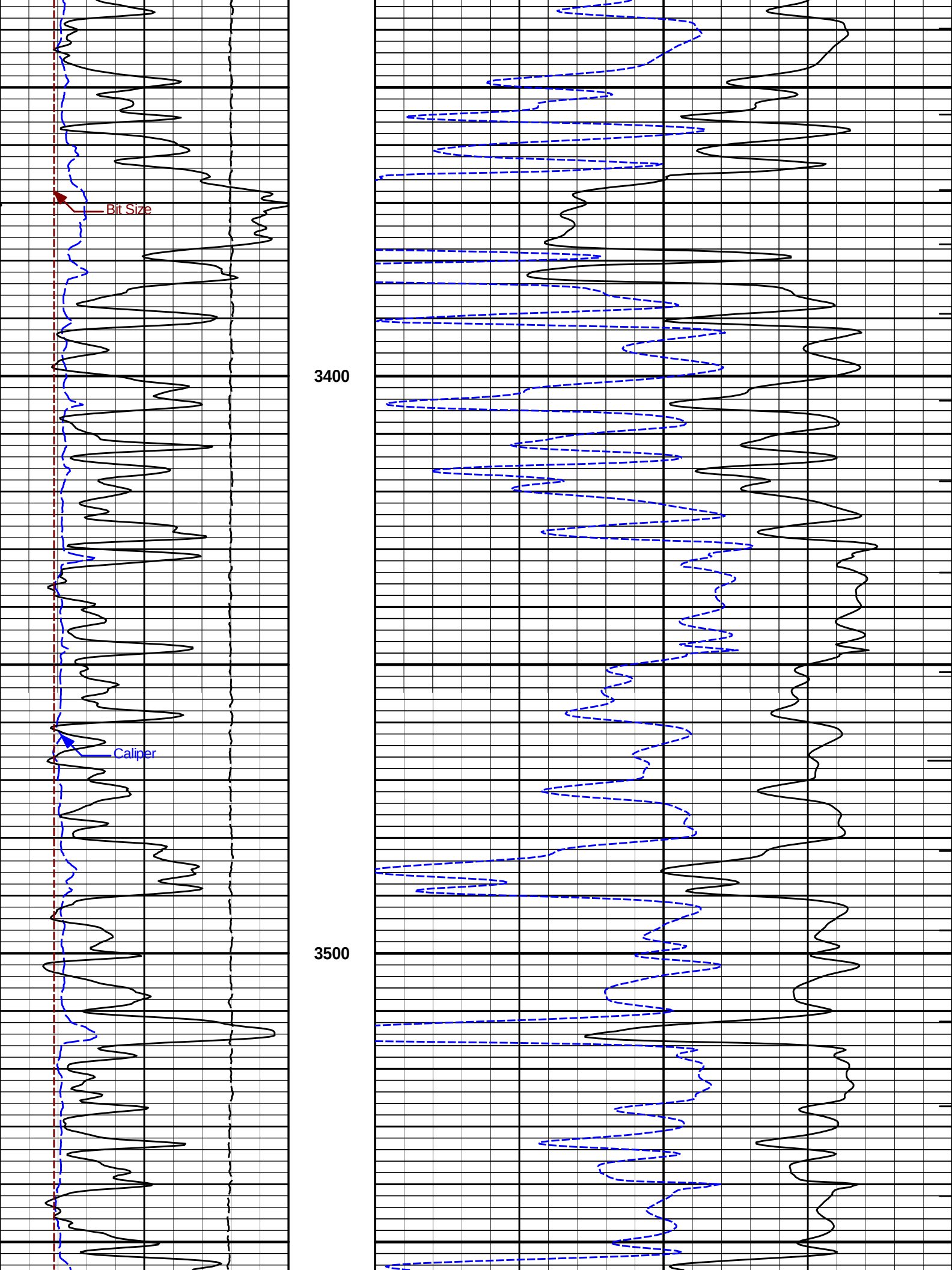

Caliper
Bit Size
2300
2400

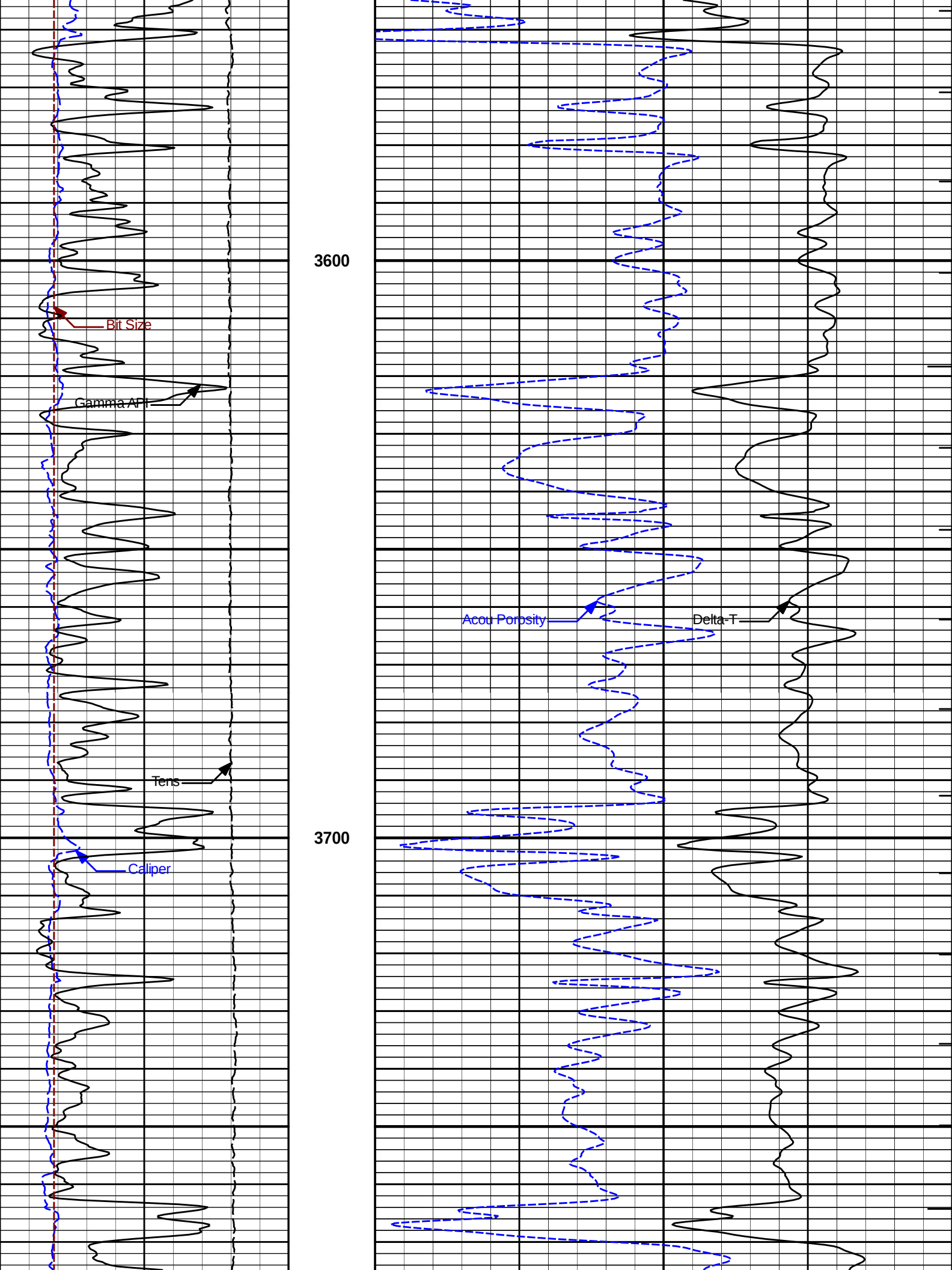

2500
2600
Caliper
Gamma API
Bit Size
Acou Porosity
Delta-T

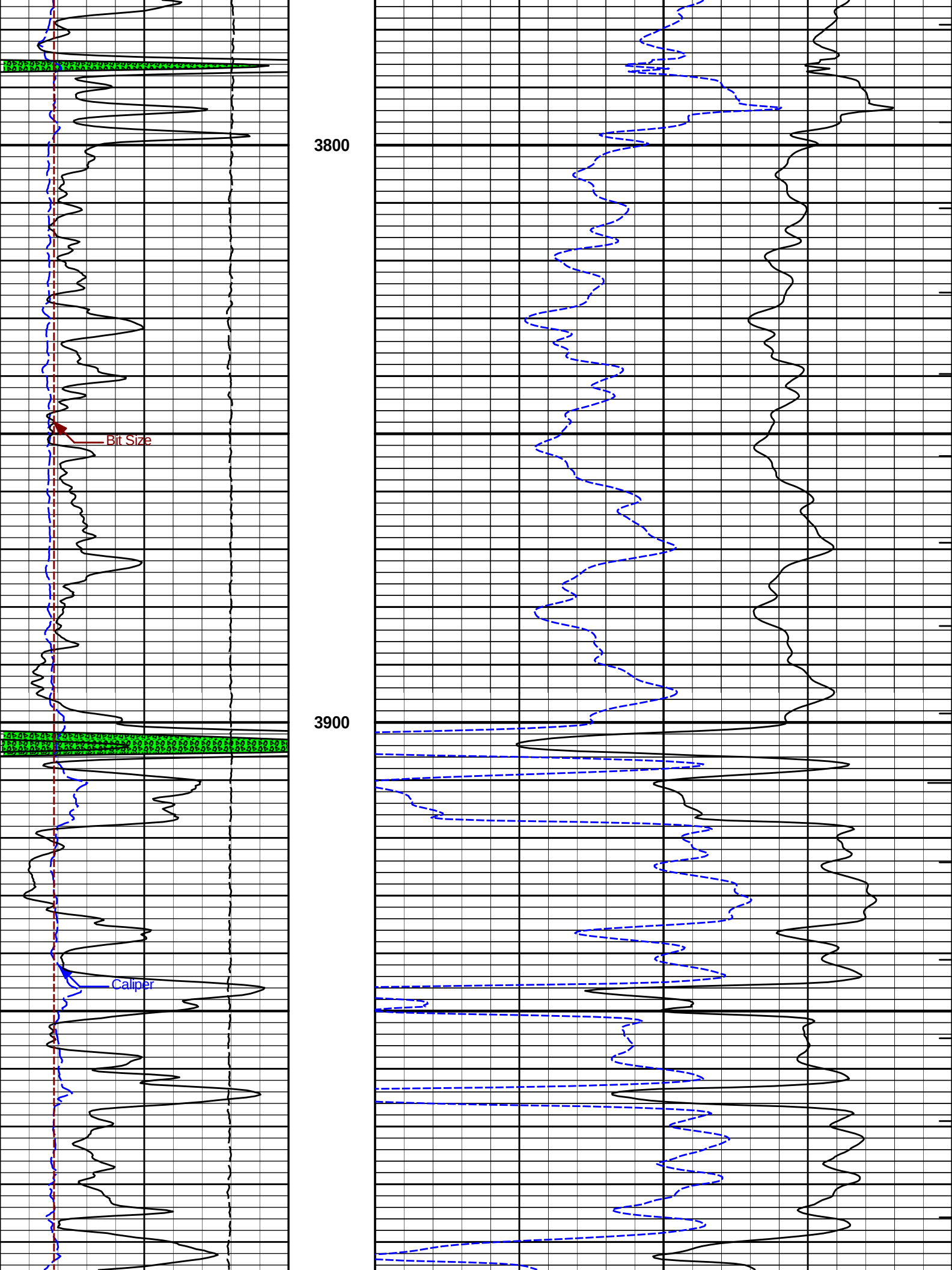

Tens
Caliper
Bit Size
2700
2800

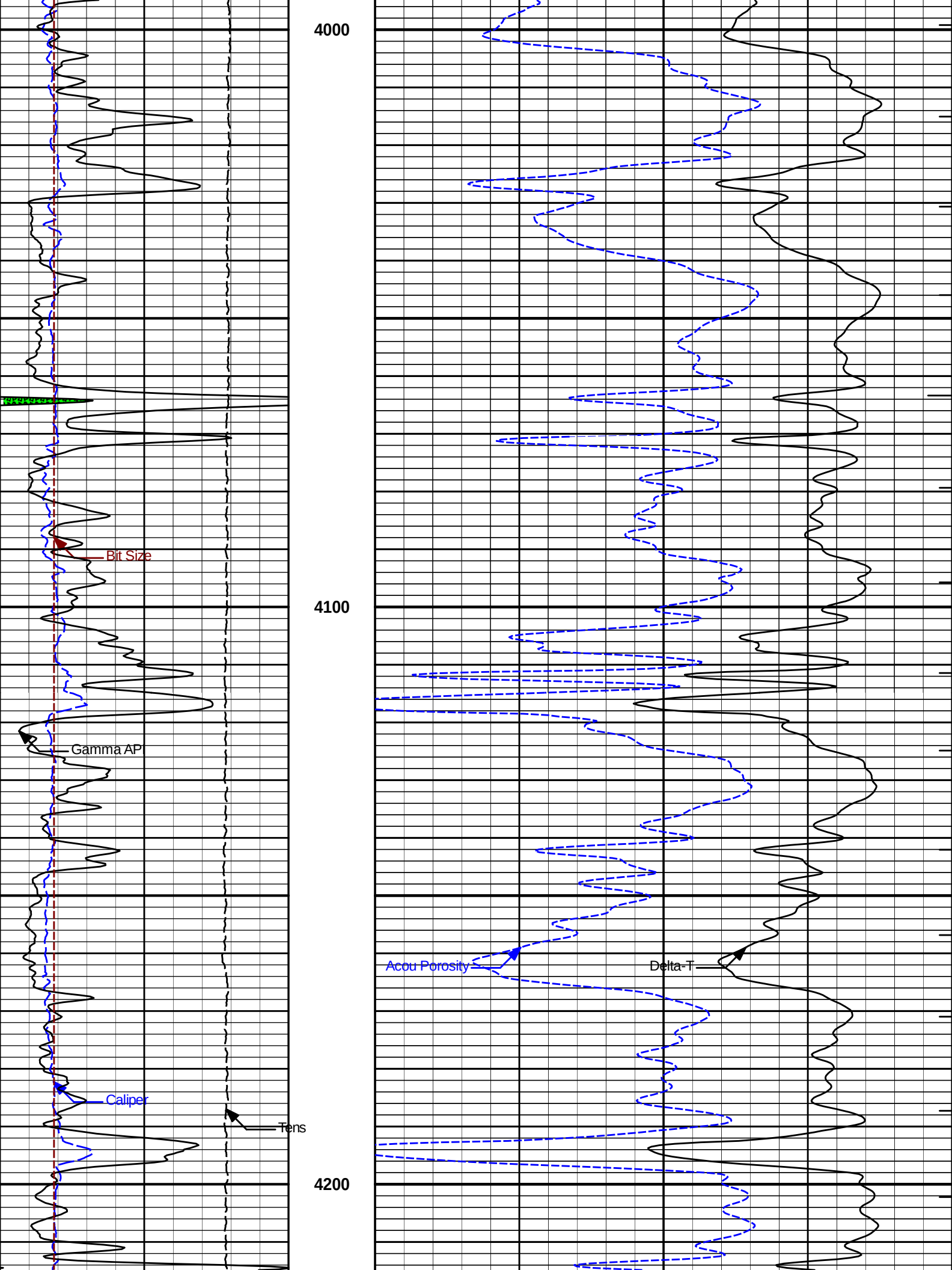

2900
Caliper
3000
3100

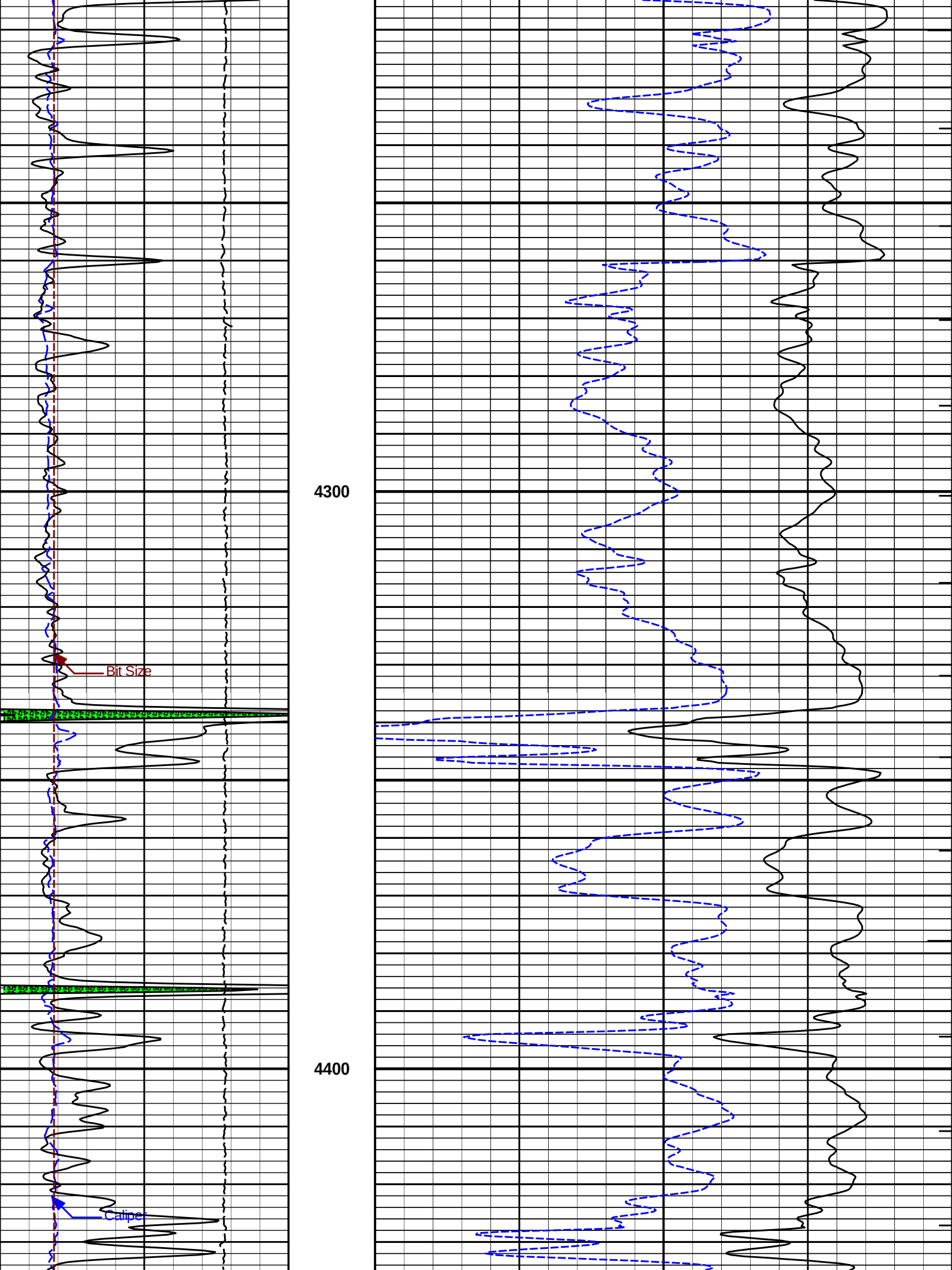

Gamma API
Bit Size
Tens
Caliper
Acou Porosity
Delta-T
3200
3300

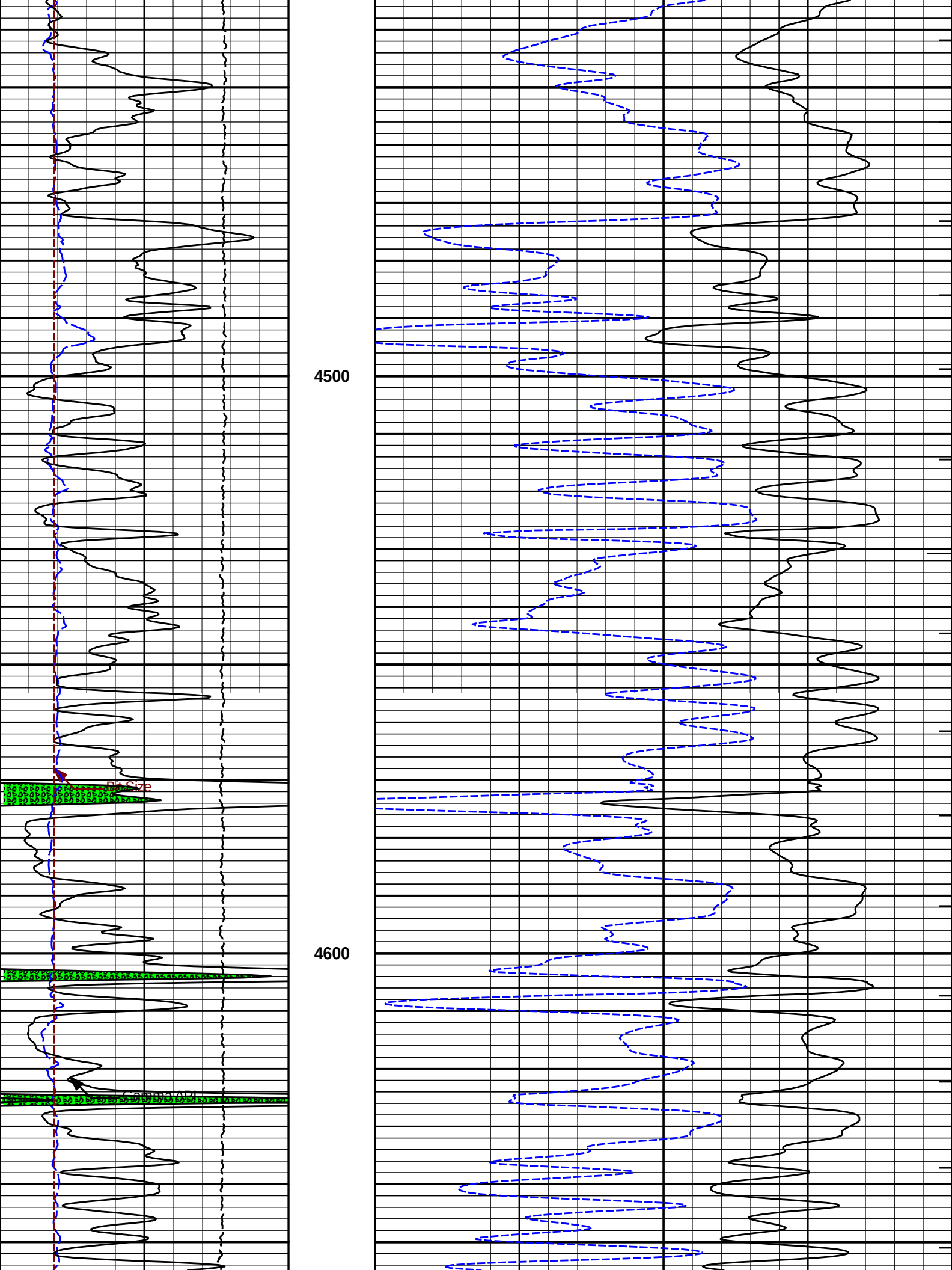

Bit Size
Caliper
3400
3500

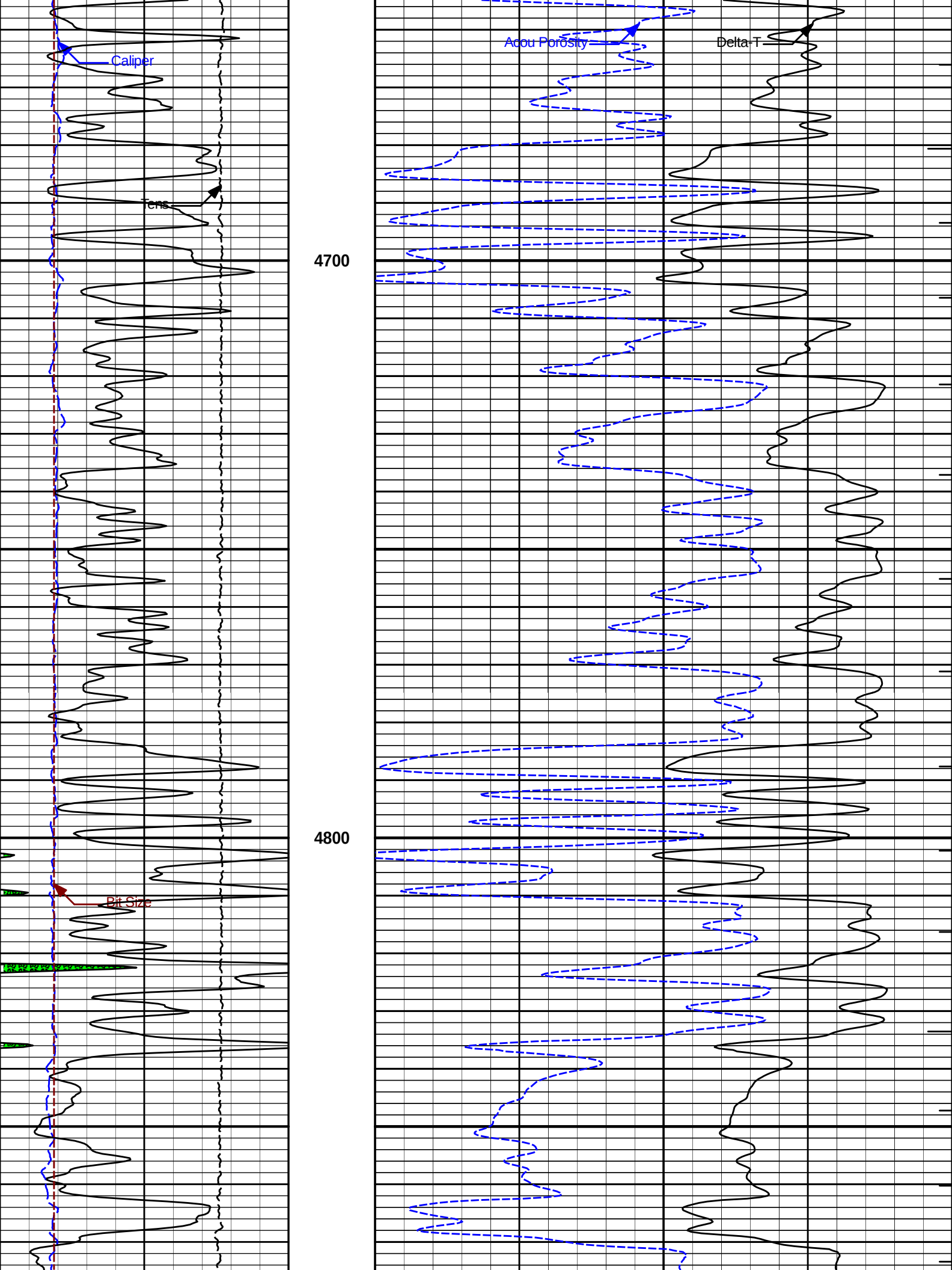

3600
Bit Size
Gamma API
Acou Porosity
Delta-T
Tens
3700
Caliper

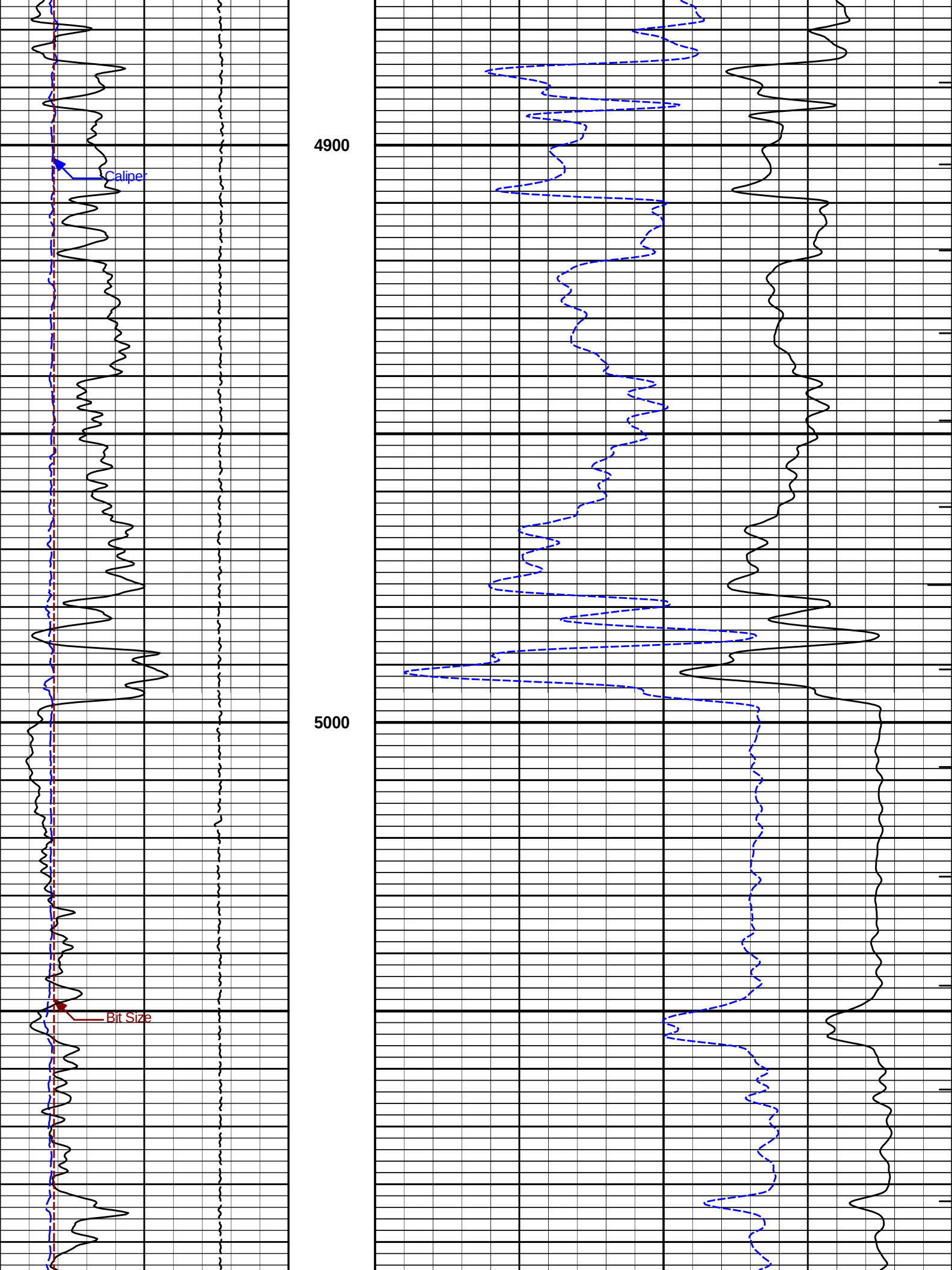

3800
3900
Bit Size
Caliper

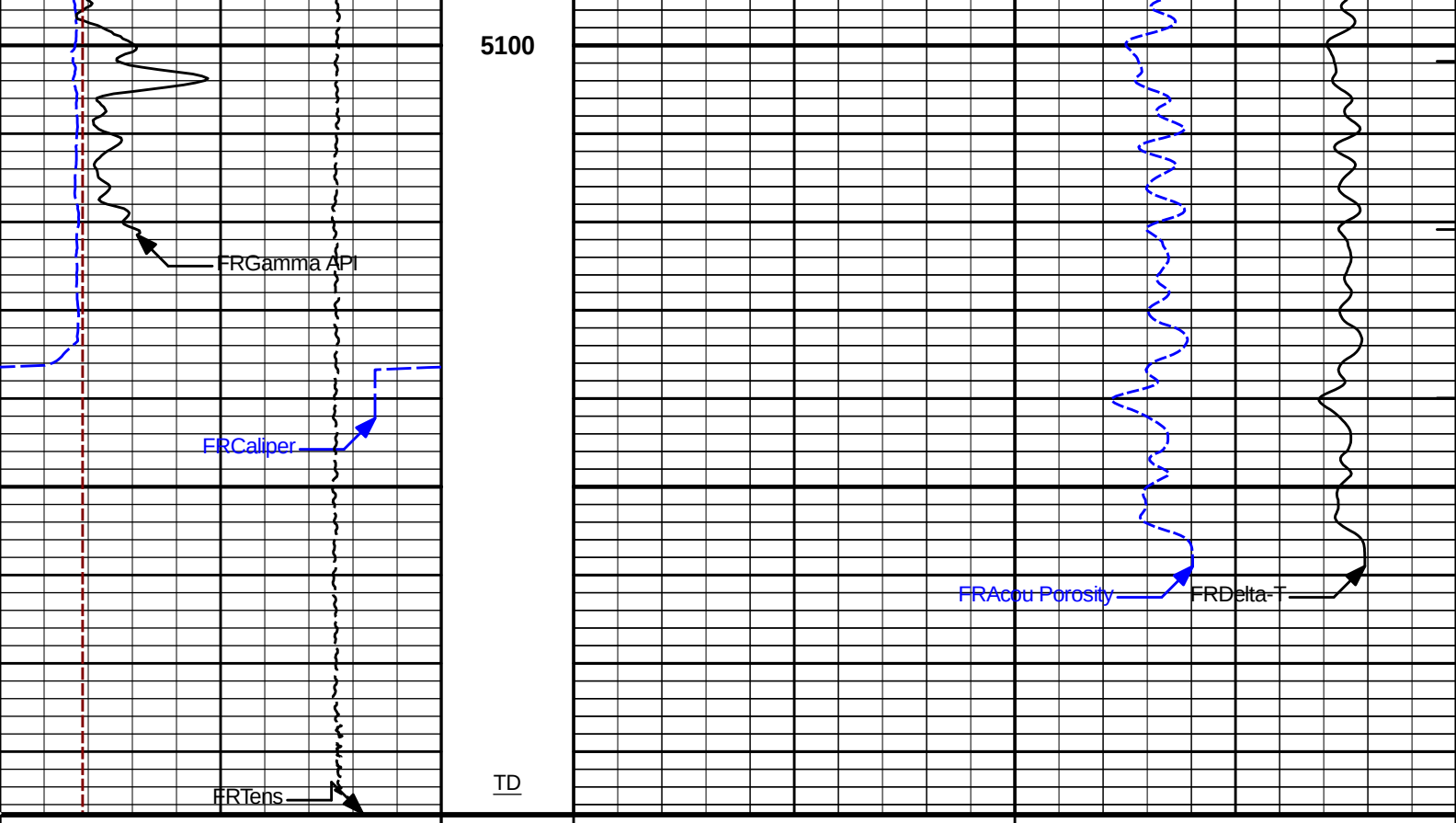

4000
4100
4200
Bit Size
Gamma API
Caliper
Tens
Acou Porosity
Delta-T


4300
Bit Size
4400
Caliper


4500
4600
BitSize
Gamma API


Caliper
Tens
Acou Porosity
Delta-T
4700
4800
Bit Size


4900
5000
Caliper
Bit Size



6 Bit Size 16 inches	1 : 240 ft	ITTT
6 CALI 16 inches		140 Delta-T 40 microsec per ft
15K Tens 0 pounds		30 Acou Porosity -10 percent
0 Gamma API 150 api		

HALLIBURTON

Plot Time: 04-Oct-22 09:39:09
Plot Range: 1790 ft to 5187 ft
Data: 10_04_MERIT\Well Based\DAQ-0001-005\
Plot File: \\SONIC\BSAT_5inch

5 INCH MAIN LOG

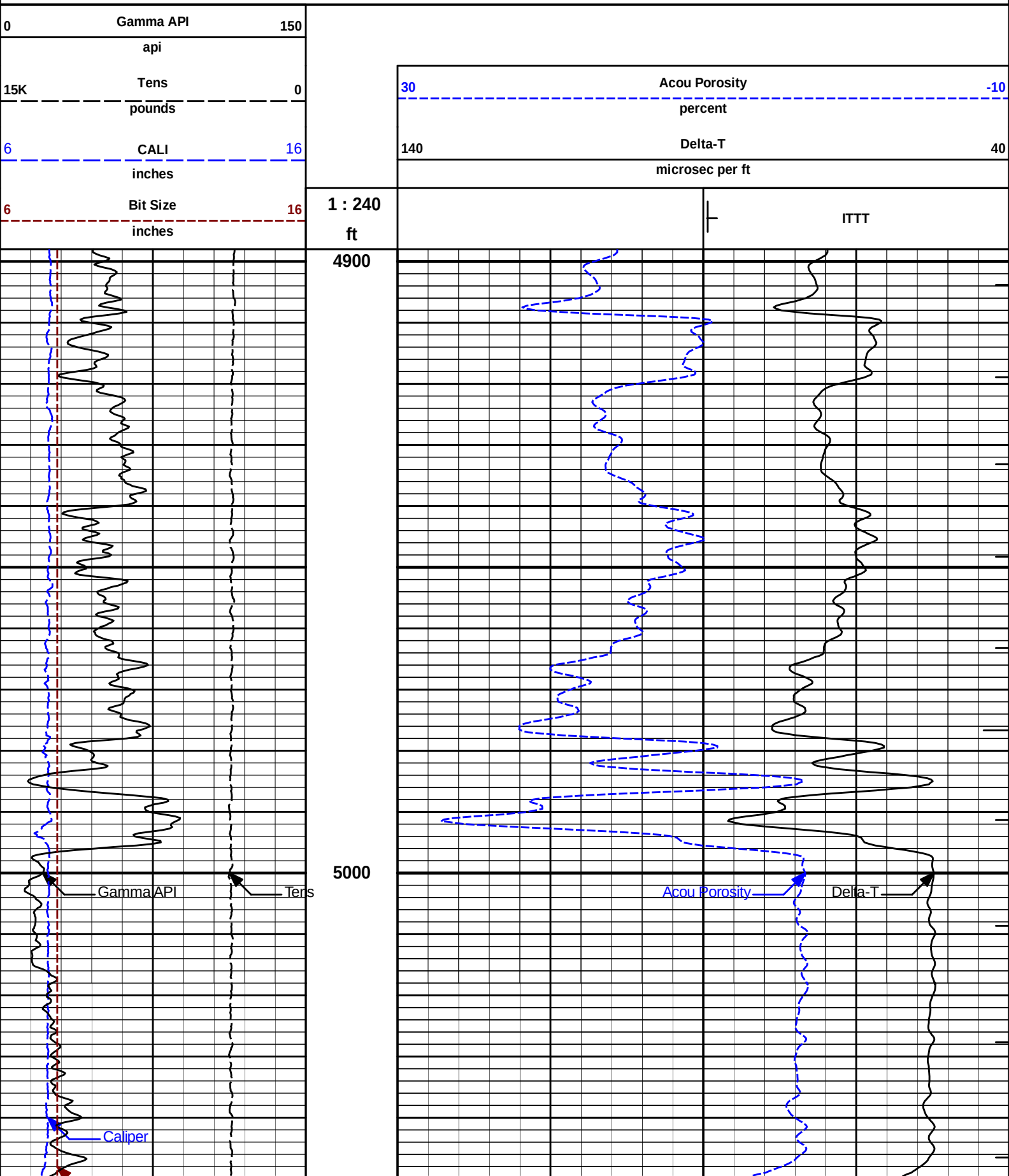
MAIN LOG SECTION

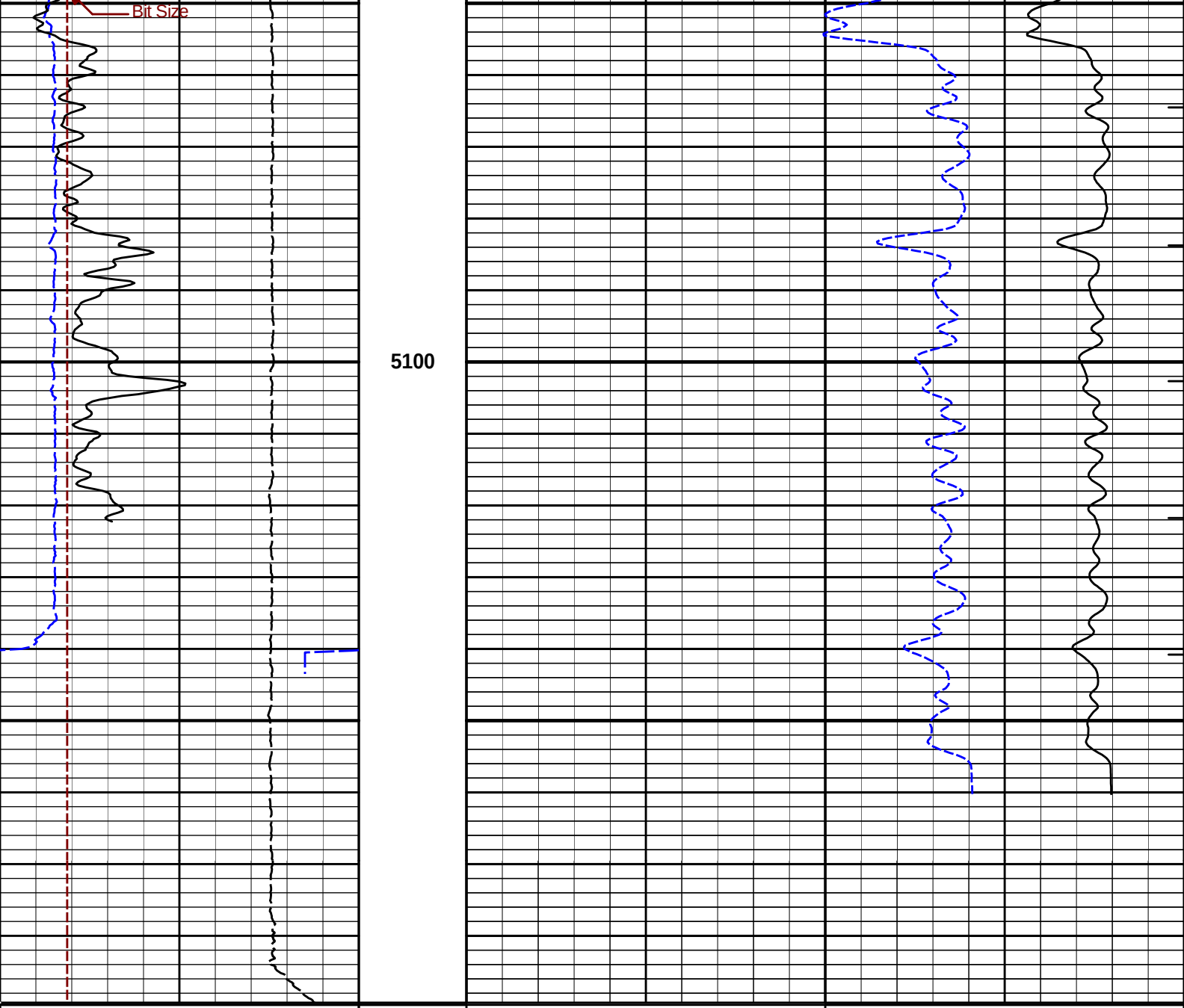
HALLIBURTON

Plot Time: 04-Oct-22 09:39:09
Plot Range: 4898 ft to 5189.33 ft
Data: 10_04_MERIT\Well Based\DAQ-0001-004\
Plot File: \\SONIC\BSAT_5inch RPT

REPEAT SECTION

REPEAT SECTION





6 Bit Size 16 inches	1 : 240 ft	ITTT
6 CALI 16 inches		140 Delta-T 40 microsec per ft
15K Tens 0 pounds		30 Acou Porosity -10 percent
0 Gamma API 150 api		

HALLIBURTON

Plot Time: 04-Oct-22 09:39:11
Plot Range: 4898 ft to 5189.33 ft
Data: 10_04_MERIT\Well Based\DAQ-0001-004\
Plot File: \\SONIC\BSAT_5inch RPT

REPEAT SECTION

REPEAT SECTION

HALLIBURTON

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				
	Shop	**Field**	**Difference**	**Control Limit 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

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 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. 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

R-MUD VERIFICATION

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

36K	1.0	1.85	2.0
72K	1.0	1.18	2.0

PASS/FAIL SUMMARY	
GAIN RANGE CHK	PASS
SONDE OFFSET CHK	PASS

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: 10_04_MERIT\0001 GTET-DSNT-SDLT-BSAT-ACRT\IDLE **Date: 04-Oct-22 07:47:12**

HALLIBURTON

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	9.300	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	0.900	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	5185.00	psia
	SHARED	ST	Surface Temperature	75.0	degF
	SHARED	TD	Total Well Depth	10000.00	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 / 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	
Micrologg 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	

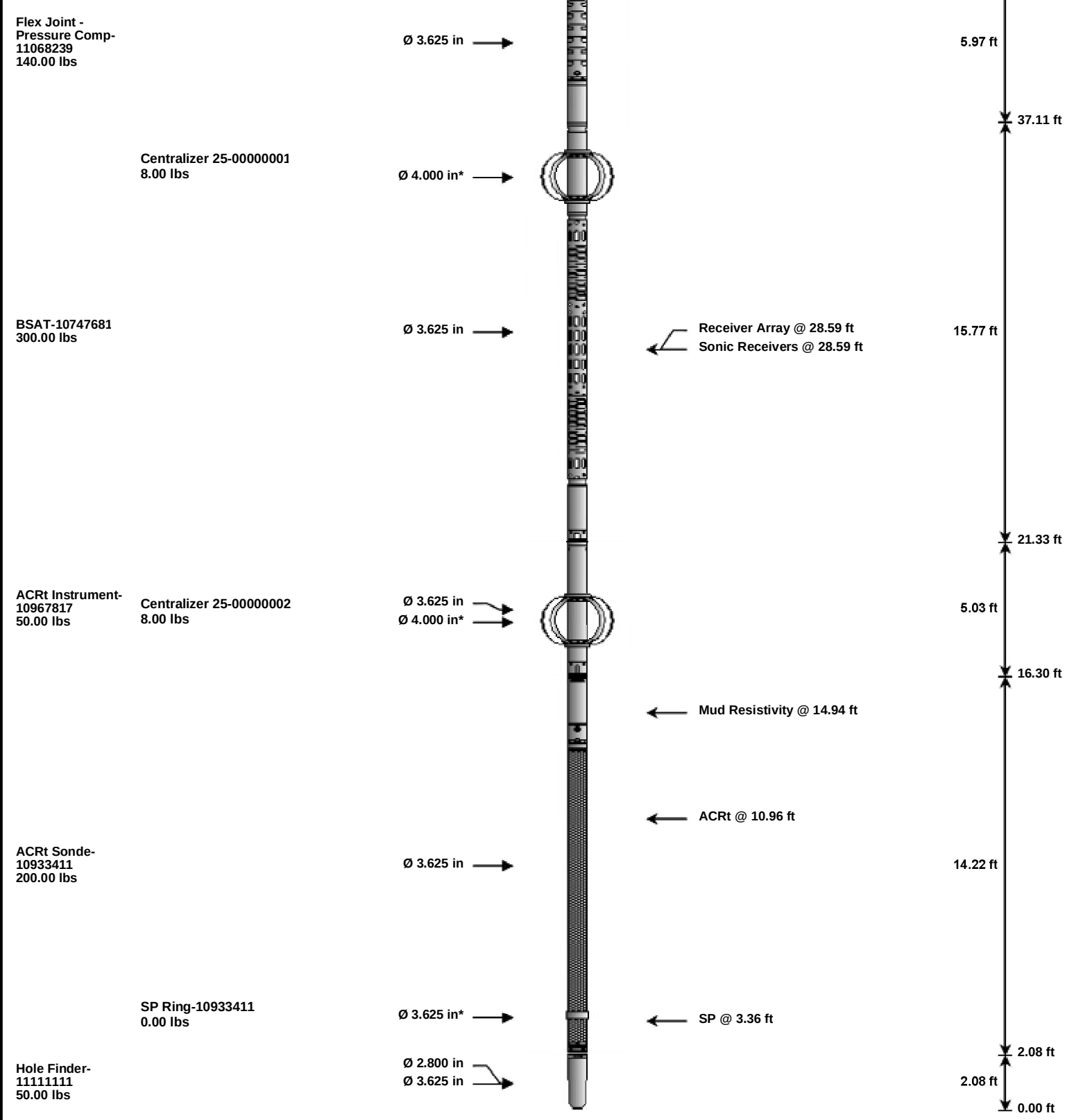
BOTTOM

Data: 10_04_MERIT\0001 GTET-DSNT-SDLT-BSAT-ACRT\005 04-Oct-22 07:14 Up @5188.2f **Date: 04-Oct-22 07:46:10**

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
		Ø 2.310 in		Fishing Neck @ 77.47 ft		78.35 ft
RWCH-12027540 135.00 lbs		Ø 3.625 in		Load Cell @ 74.66 ft BH Temperature @ 74.10 ft	6.25 ft	
	Weak Point 12000 lbs-00000012 0.01 lbs	Ø 0.010 in*		Z-Accelerometer @ 71.65 ft		72.10 ft
GTET-11405267 165.00 lbs		Ø 3.625 in		GammaRay @ 66.04 ft	8.52 ft	
						63.58 ft
	DSN Decentralizer-11019643 6.60 lbs	Ø 5.000 in*				
DSNT-11019641 174.00 lbs		Ø 3.625 in		DSN Far @ 56.64 ft DSN Near @ 55.89 ft	9.69 ft	
						53.89 ft
	SDLT Pad-10865883 65.00 lbs	Ø 4.500 in				
SDLT-10695352 360.00 lbs	Microlog Pad-10695352 8.00 lbs	Ø 4.500 in* Ø 4.750 in*		Microlog @ 46.08 ft SDL Caliper @ 45.89 ft	10.81 ft	
	RAM-Cs137-10020004 1.00 lbs	Ø 0.800 in*		SDL @ 45.88 ft		
						43.08 ft



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		72.10	300.00
WP12K	Weak Point 12000 lbs	00000012	0.01	0.01	*	72.90	300.00
GTET	Gamma Telemetry Tool	11405267	165.00	8.52		63.58	60.00
DSNT	Dual Spaced Neutron	11019641	174.00	9.69		53.89	60.00
DCNT	DSN Decentralizer	11019643	6.60	5.13	*	57.22	300.00
SDLT	Spectral Density Tool	10695352	360.00	10.81		43.08	60.00
SDLP	Density Insite Pad	10865883	65.00	2.55	*	45.29	60.00
Cs137	Logging Source, SDLT-I, 1.78 Ci - Cs137	10020004	1.00	0.80	*	45.52	300.00
MICP	Microlog Pad	10695352	8.00	1.00	*	45.58	60.00
FLEX	Flex Joint - Pressure Compensated	11068239	140.00	5.97		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**	**78.35**			

* Not included in Total Length and Length Accumulation.

Data: 10_04_MERIT\0001 GTET-DSNT-SDLT-BSAT-ACRT\IDLE **Date: 04-Oct-22 06:05:33**

COMPANY	**MERIT ENERGY COMPANY, LLC**		
WELL	**NORTH REEVE 1-11**		
FIELD	**WILDCAT**		
COUNTY	**FINNEY**	STATE	**KS**

HALLIBURTON

BOREHOLE COMPENSATED SONIC ARRAY