

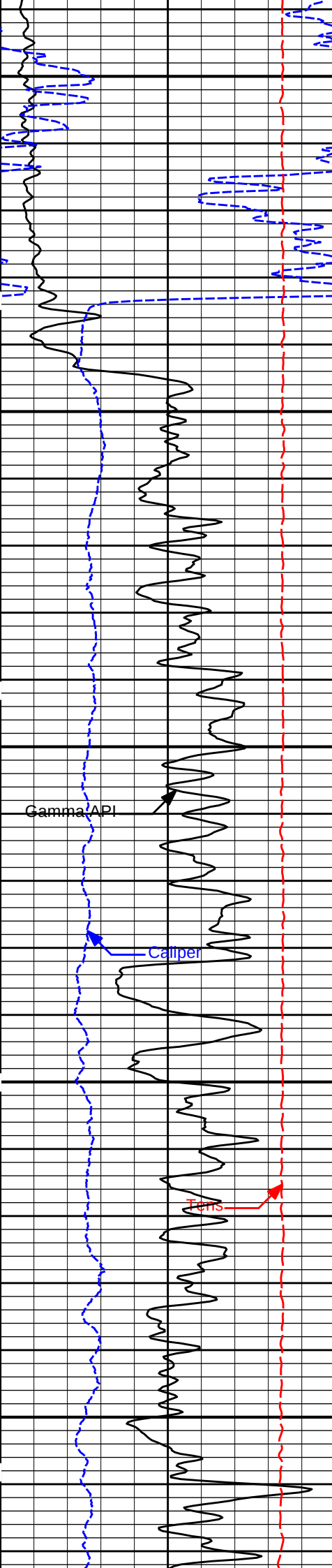
HALLIBURTON

BOREHOLE COMPENSATED
SONIC ARRAY
LOG

COMPANY				MERIT ENERGY COMPANY			
WELL				BATMAN B4			
FIELD/BLOCK				SANTA FE NORTH			
COUNTY				HASKELL			
STATE				KANSAS			
Permanent Datum		GL		Location		API No. 15081221710000	
Log measured from		KB		(SHL) 1193' FNL & 752' FEL		Other Services: DSNT/SDLT MICROLOG BSAT ACRT	
Drilling measured from		KB		SE SW NE NE		Elev.: 2978.6 ft	
Date		25-Feb-18		Sect. 10		Twp. 28S	
Run No.		ONE		Rge. 33W		Elev.: 2991.6 ft	
Depth - Driller		5655.0 ft				D.F. 2991.6 ft	
Depth - Logger		5662.0 ft				G.L. 2978.6 ft	
Bottom - Logged Interval		5635.00 ft					
Top - Logged Interval		1827.00 ft					
Casing - Driller		8.625 in		@ 1826.0 ft		@	
Casing - Logger		1827.0 ft					
Bit Size		7.875 in				@	
Type Fluid in Hole		Water Based Mud					
PH	Viscosity	9.1 cP	56.00 s/qt				
	Fluid Loss	11.00 pH	6.4 cpm				
Source of Sample		FLOWLINE					
Rm @ Meas. Temperature		1.67 ohmm		@ 75.00 degF		@	
Rmf @ Meas. Temperature		1.51 ohmm		@ 75.00 degF		@	
Rmc @ Meas. Temperature		1.82 ohmm		@ 75.00 degF		@	
Source Rmf		MEAS		MEAS			
Rm @ BHT		0.96 ohmm		@ 135.0 degF		@	
Time Since Circulation		5.0 hr					
Time on Bottom		25-Feb-18 20:45					
Max. Rec. Temperature		135.00 degF		@ 5662.0 ft		@	
Equipment		12147634		EL RENO			
Recorded By		JORGE ORLANDO PEREZ					
Witnessed By		MATTHEW GARVIN		AUSTIN GARNIER			

Service Ticket No.: 904653282						API No.: 15081221710000						PGM Version: WL INSITE R5.0.5 (Build 8)					
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE								RESISTIVITY SCALE CHANGES									
Date	Sample No.						Type Log	Depth	Scale Up Hole			Scale Down Hole					
Depth-Driller																	
Type Fluid in Hole																	
Density	Viscosity																
Ph	Fluid Loss																
Source of Sample								RESISTIVITY EQUIPMENT DATA									
Rm @ Meas. Temp		@			@			Run No.	Tool Type & No.	Pad Type		Tool Pos.		Other			
Rmf @ Meas. Temp.		@			@			ONE	ACRT	N/A		1.5 S.O.		N/A			
Rmc @ Meas. Temp.		@			@				I-11026095								
Source Rmf	Rmc							S-11005908									
Rm @ BHT		@			@												
Rmf @ BHT		@			@												
Rmc @ BHT		@			@												
EQUIPMENT DATA																	
GAMMA				ACOUSTIC				DENSITY				NEUTRON					
Run No.	ONE			Run No.	ONE			Run No.	ONE			Run No.	ONE				
Serial No.	11958947			Serial No.	10747683			Serial No.	10960494			Serial No.	11055304				
Model No.	GTET			Model No.	BSAT			Model No.	SDLT			Model No.	DSNT				
Diameter	3.625"			No. of Cent.	2			Diameter	5.5"			Diameter	3.625"				
Detector Model No.	T-102			Spacing	EVEN			Log Type	GAM-GAM			Log Type	NEU-NEUI				
Type	SCINT							Source Type	CS137			Source Type	AM241BE				
Length	8"			LSA [Y/N]				Serial No.	5168GW			Serial No.	DSN-424				
Distance to Source	N/A			FWDA [Y/N]				Strength	1.5 Ci			Strength	15.0 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	TD	CSG	REC	0	150	30	-10	47.6 uSec/ft	30	-10	2.71 gr/cc	30	-10	LIME			

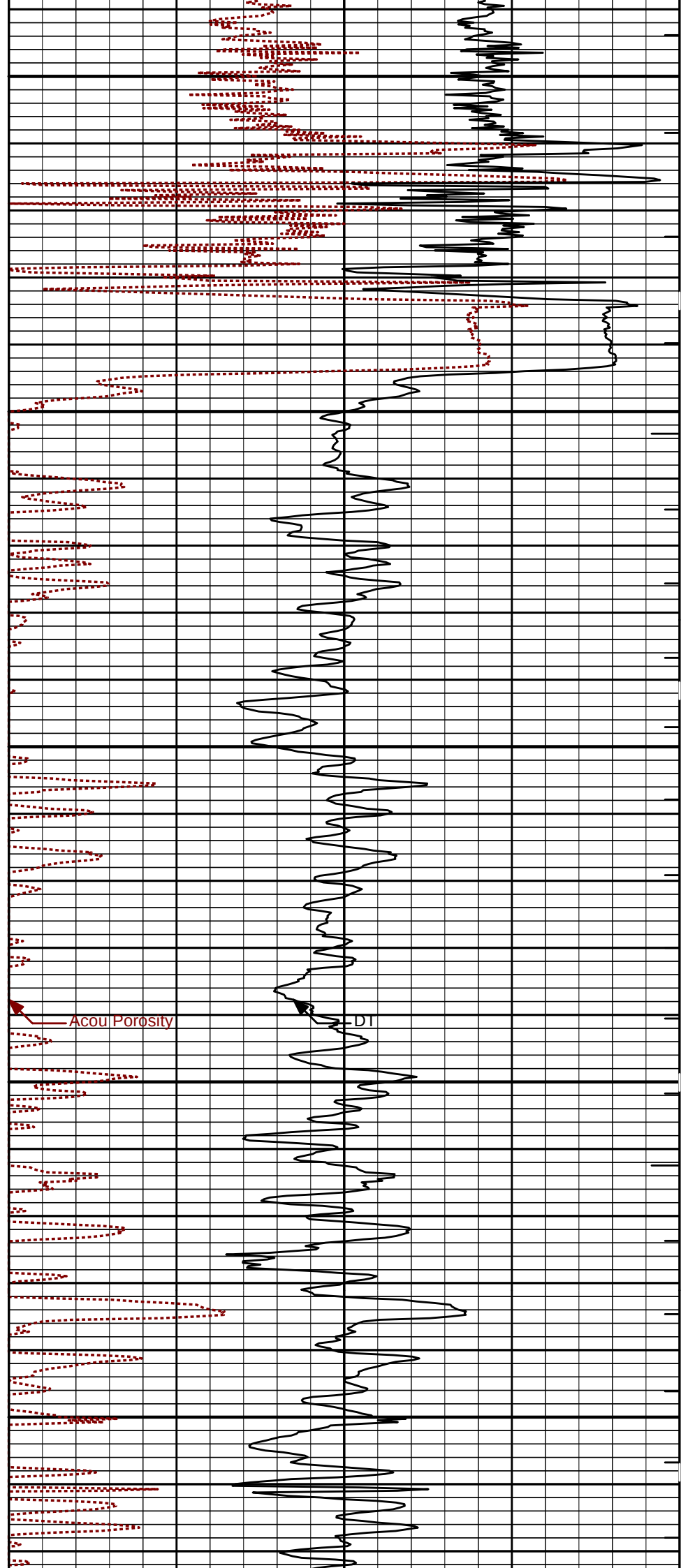
5 INCH MAIN LOG

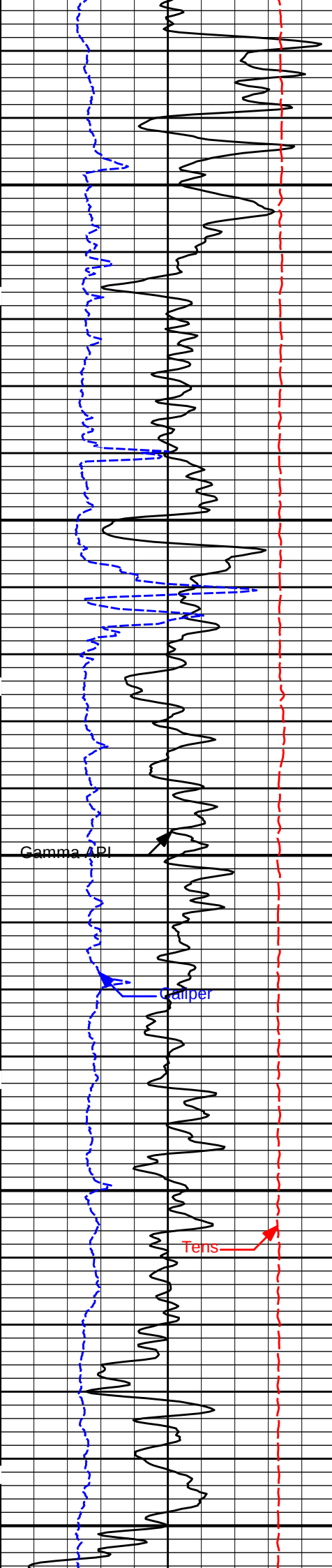


1900

2000

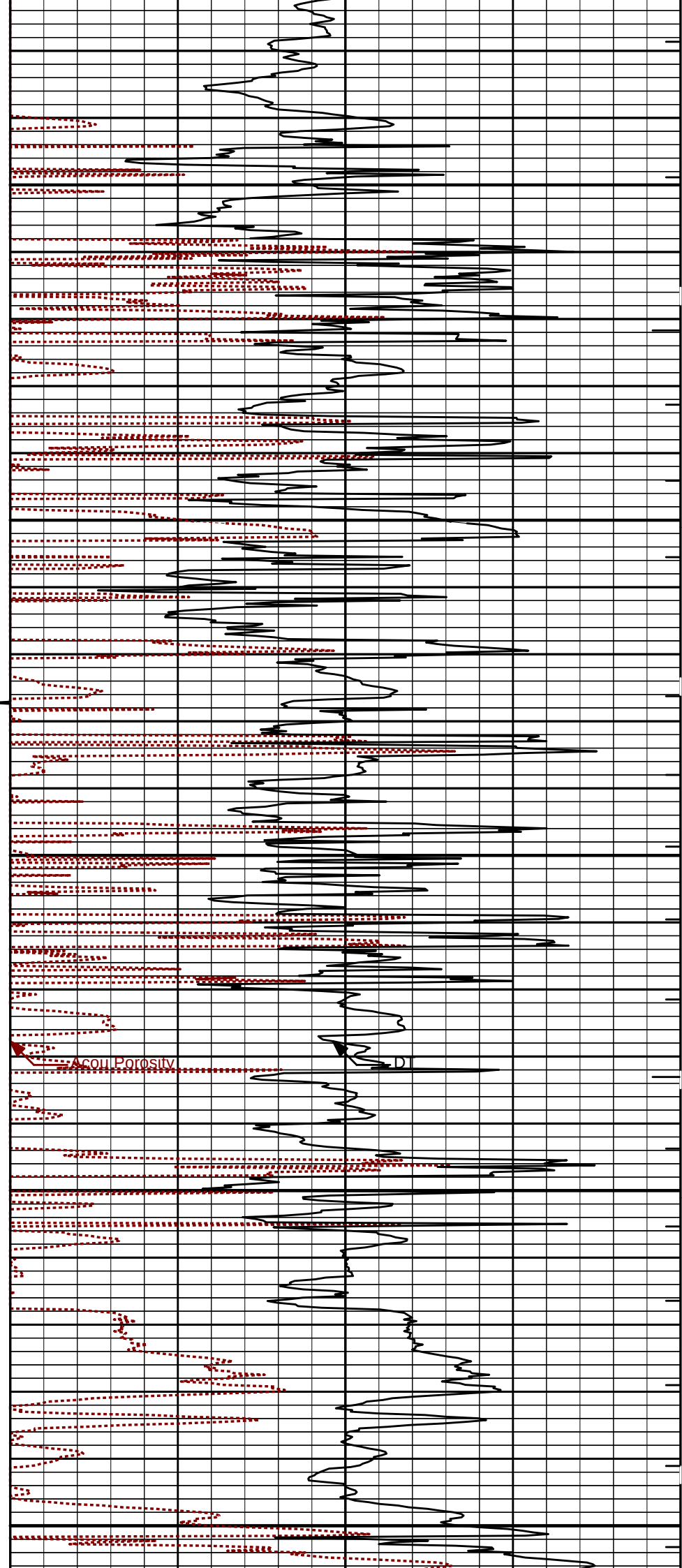
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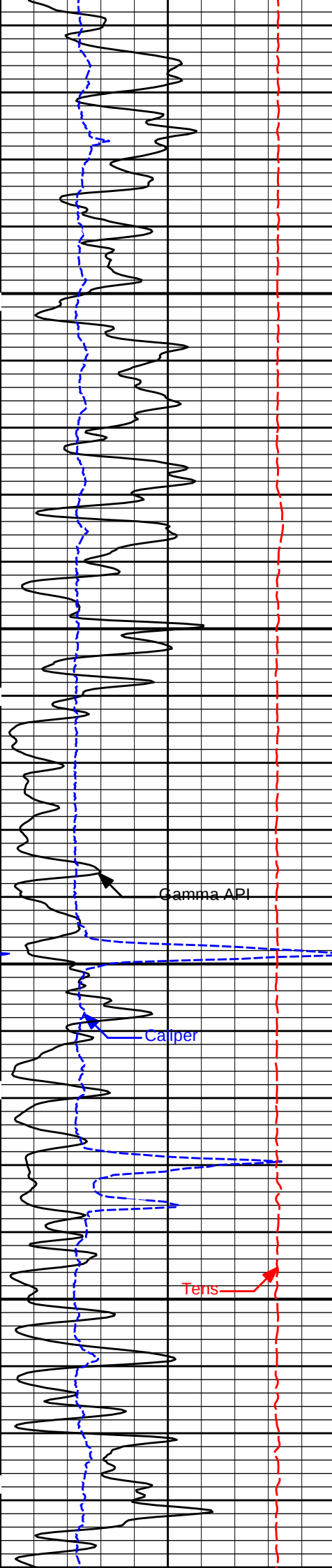




2200

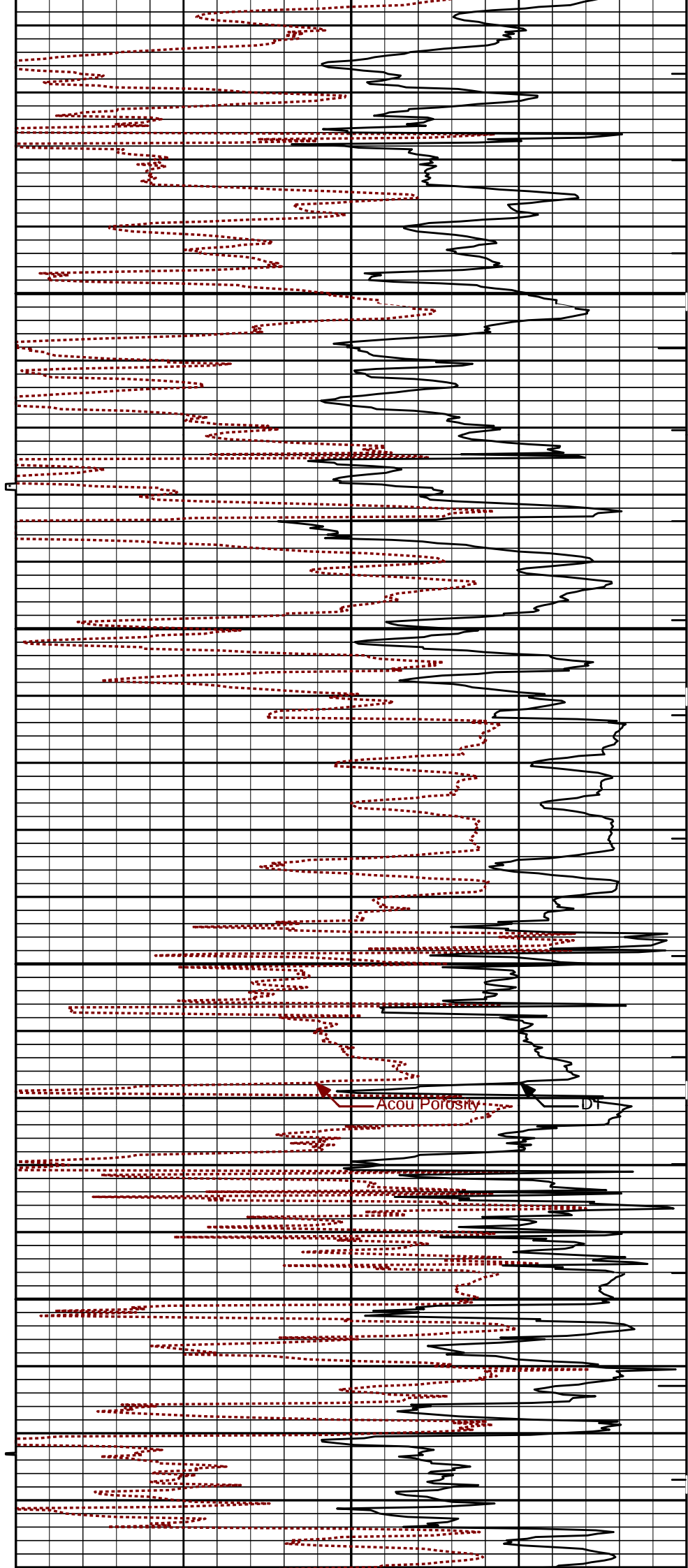
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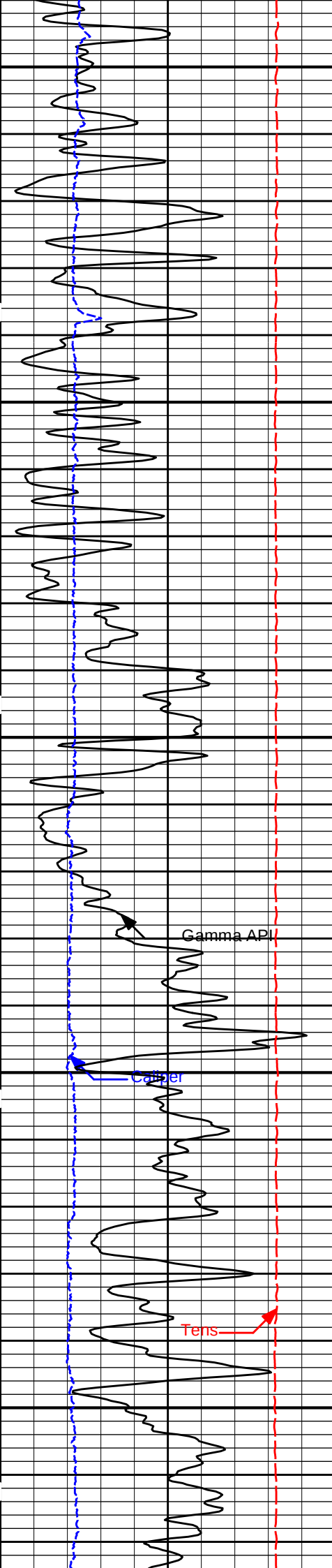




2400

2500





2600

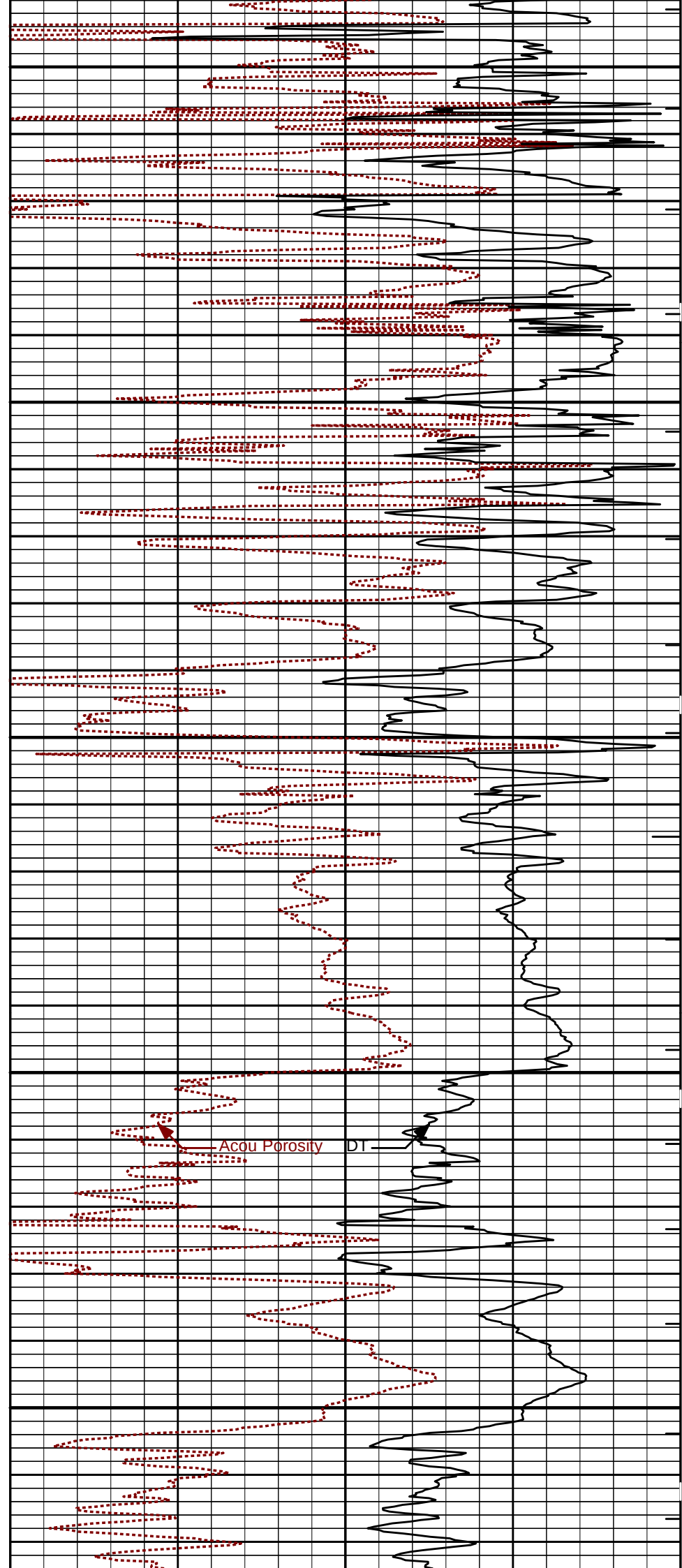
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2800

Gamma API

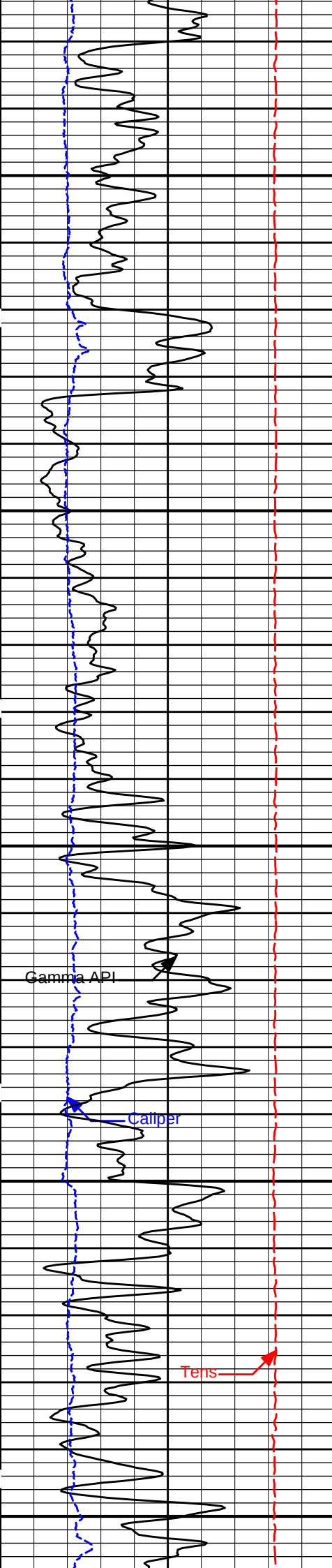
Casing

Tens



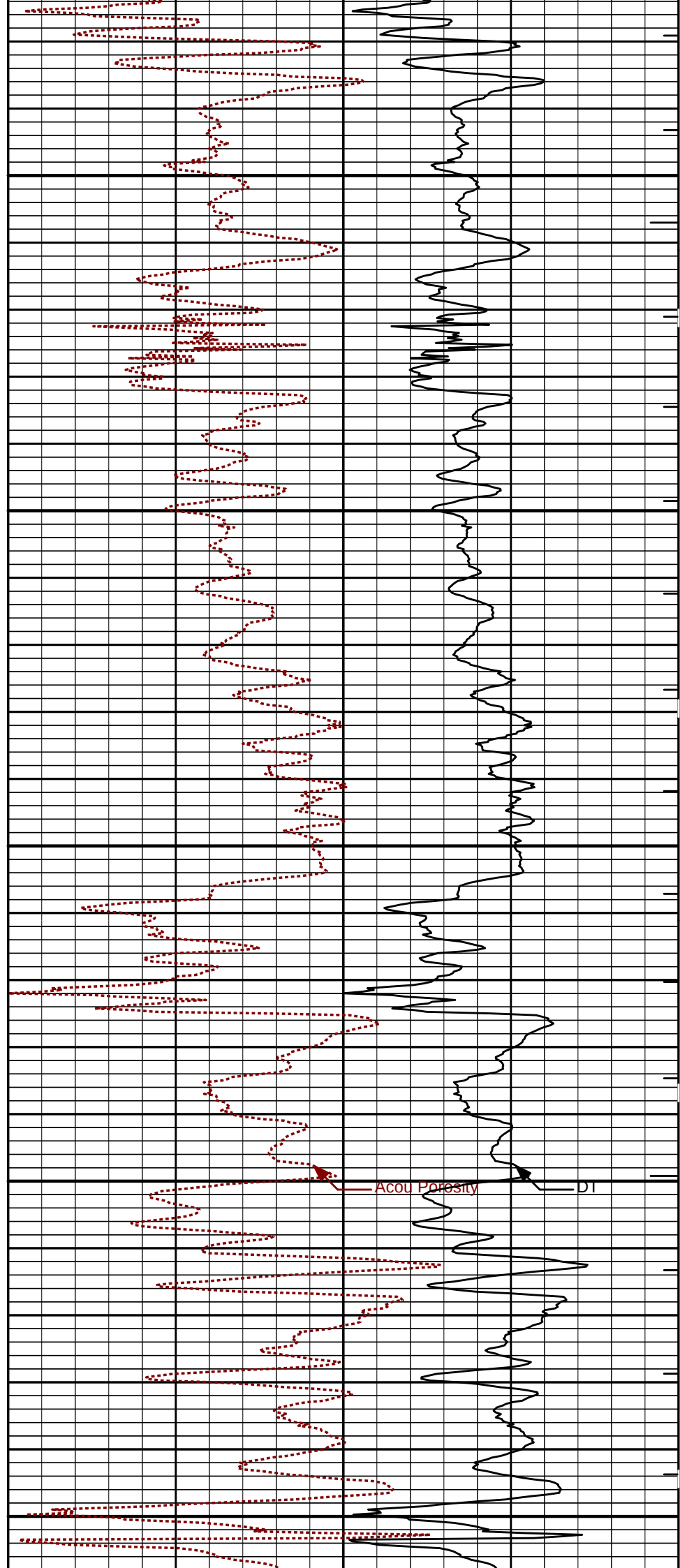
Acou Porosity

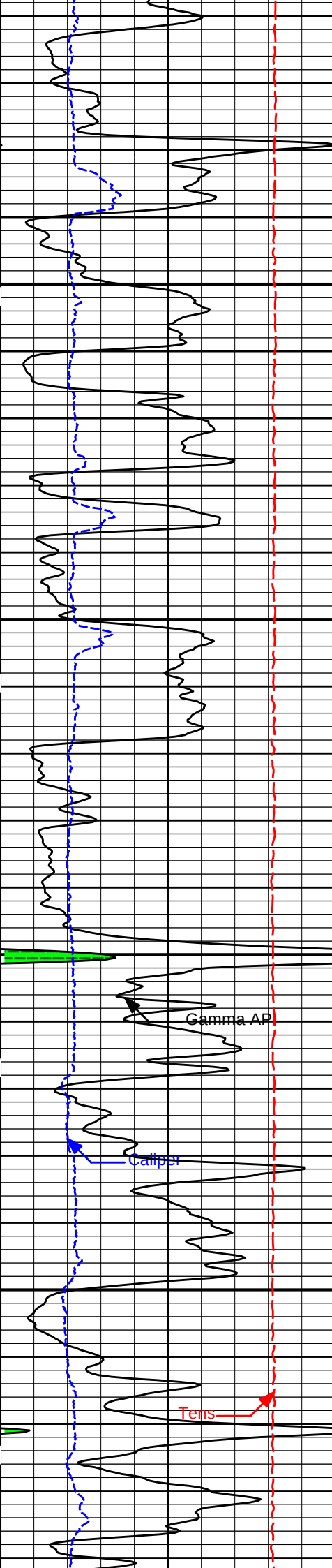
DT



2900

3000





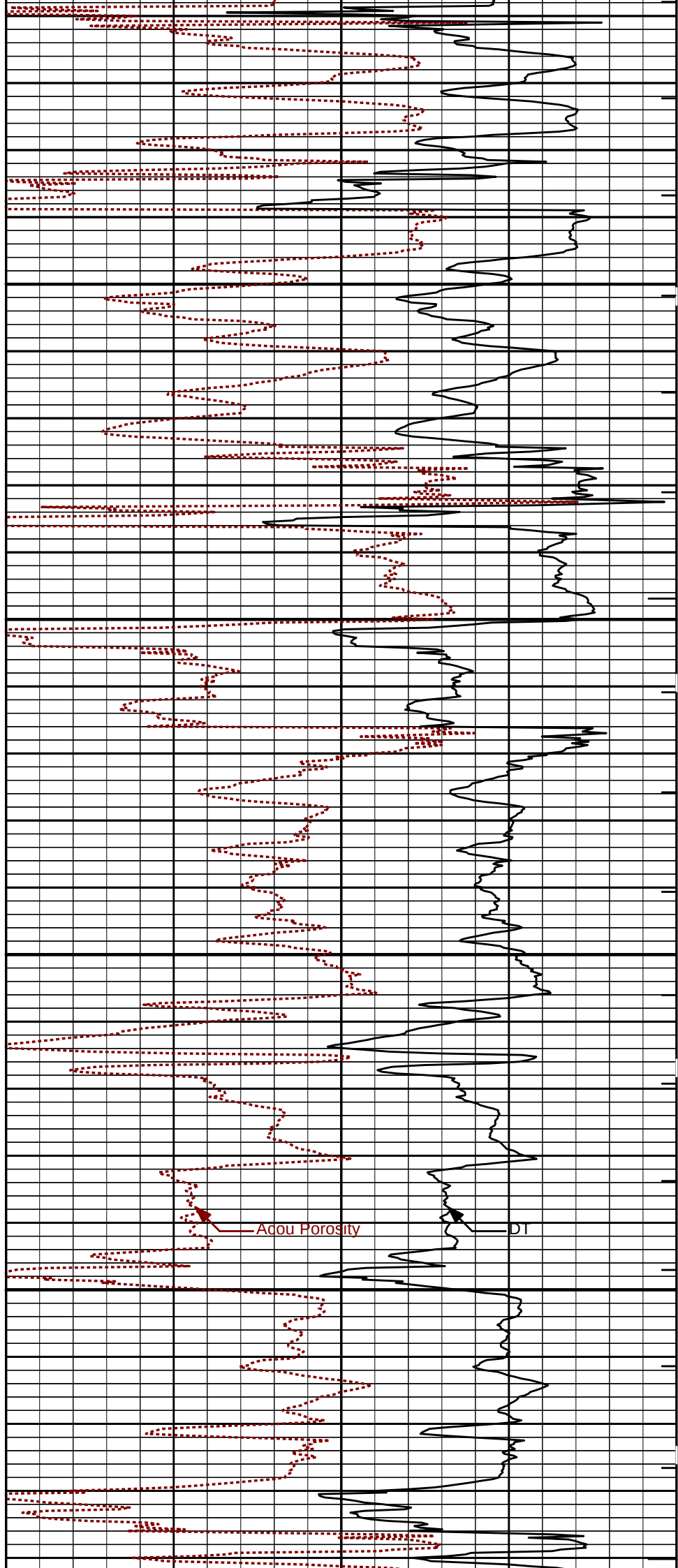
3100

3200

Gamma AP

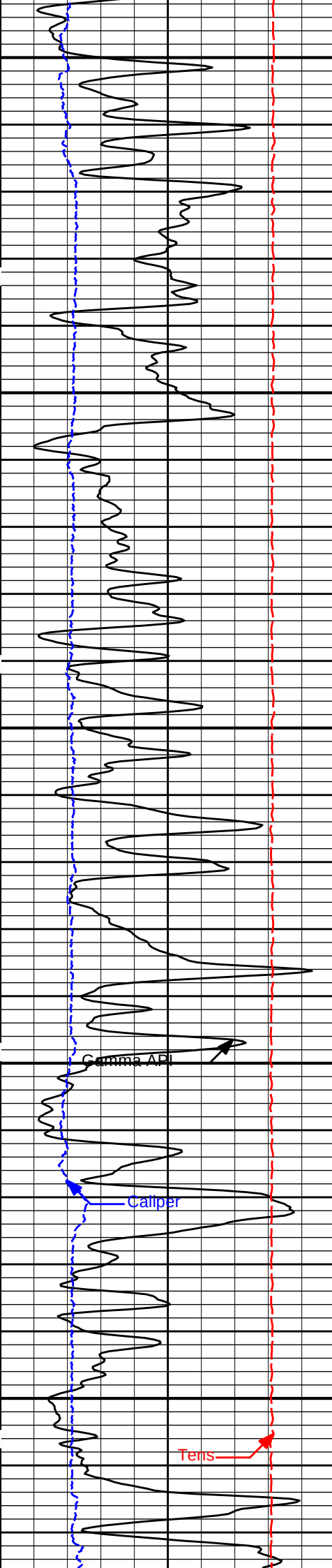
Caliper

Tens



Acou Porosity

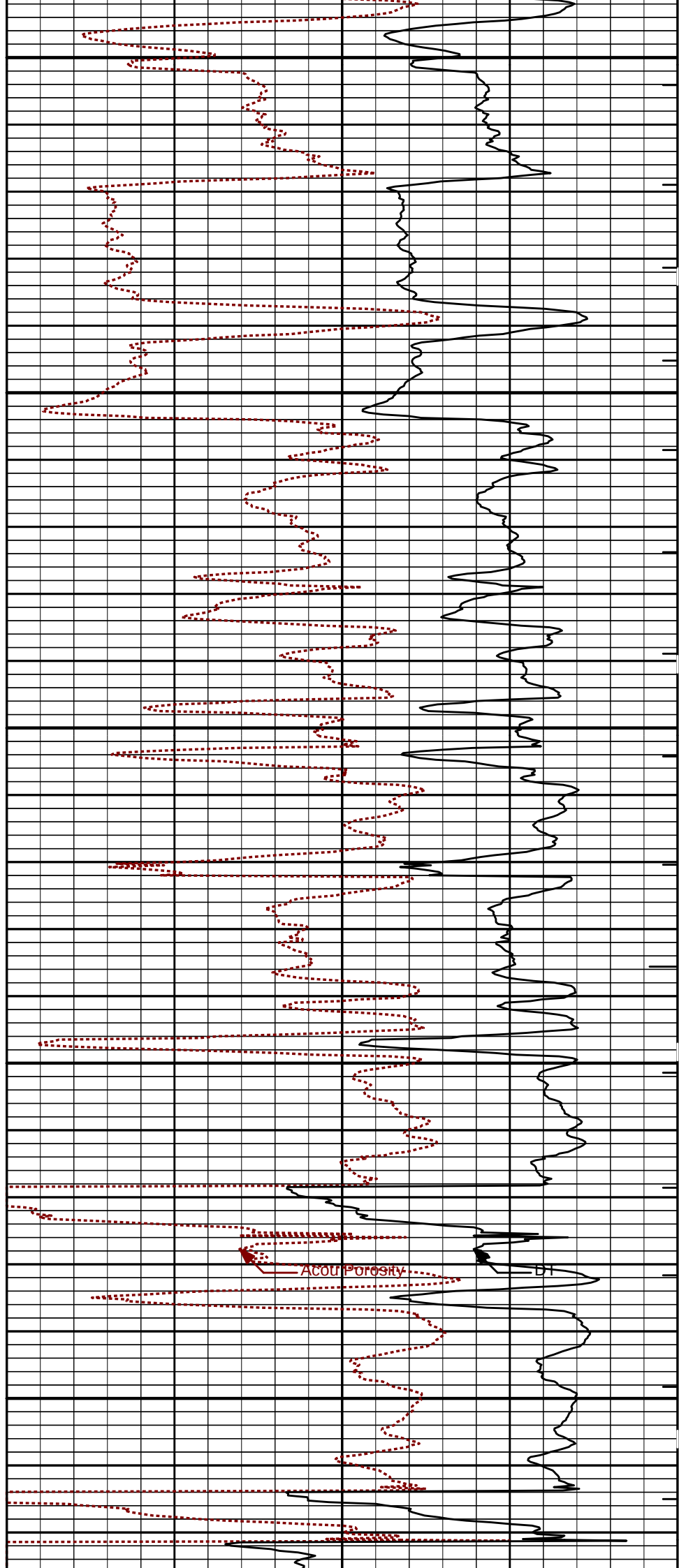
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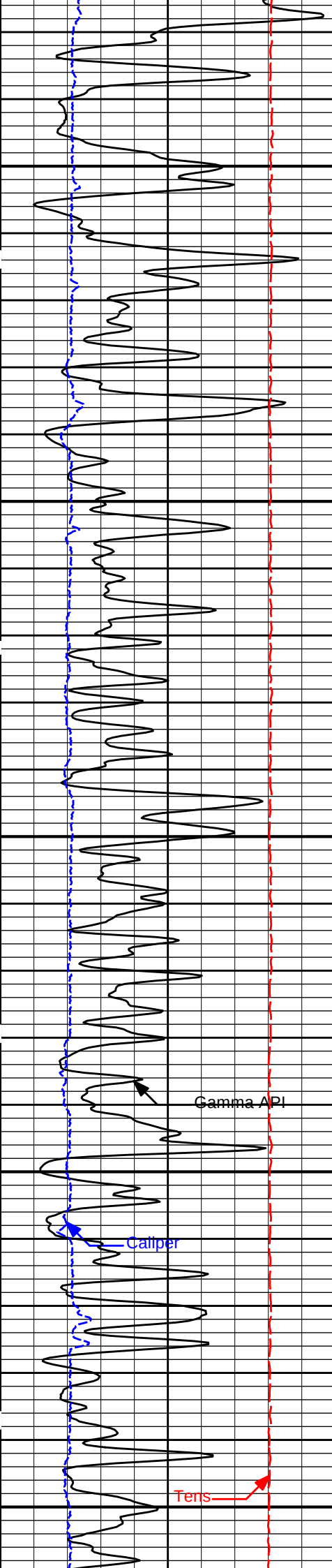


3300

3400

3500





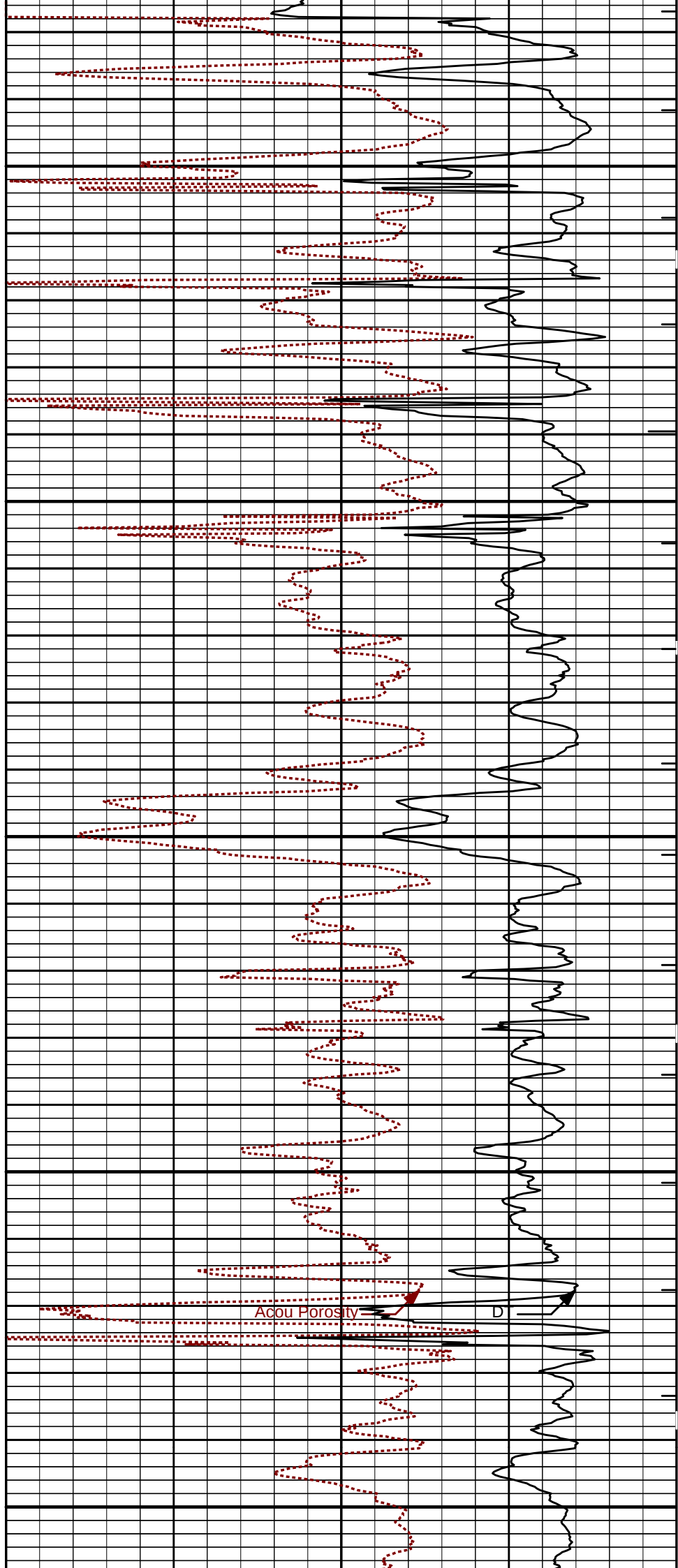
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3700

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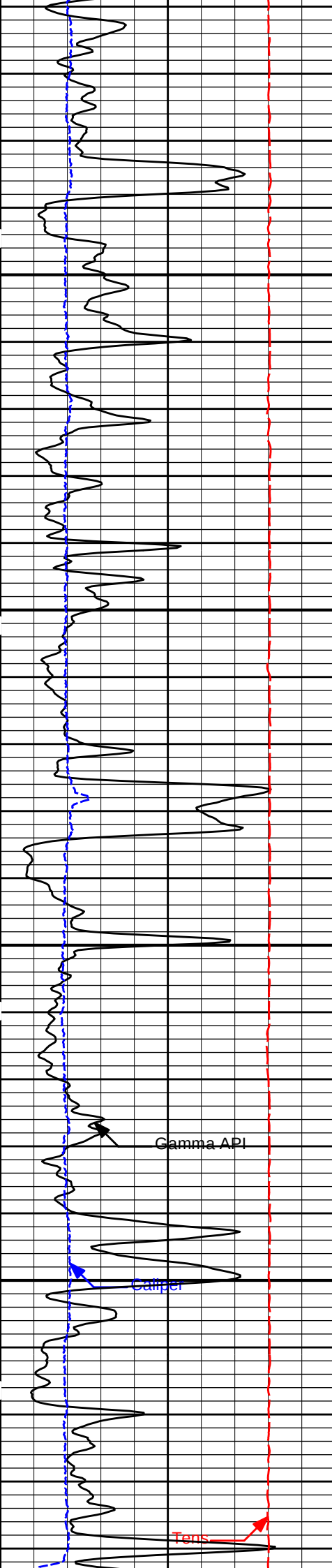
Caliper

Tens



Acou Porosity

D



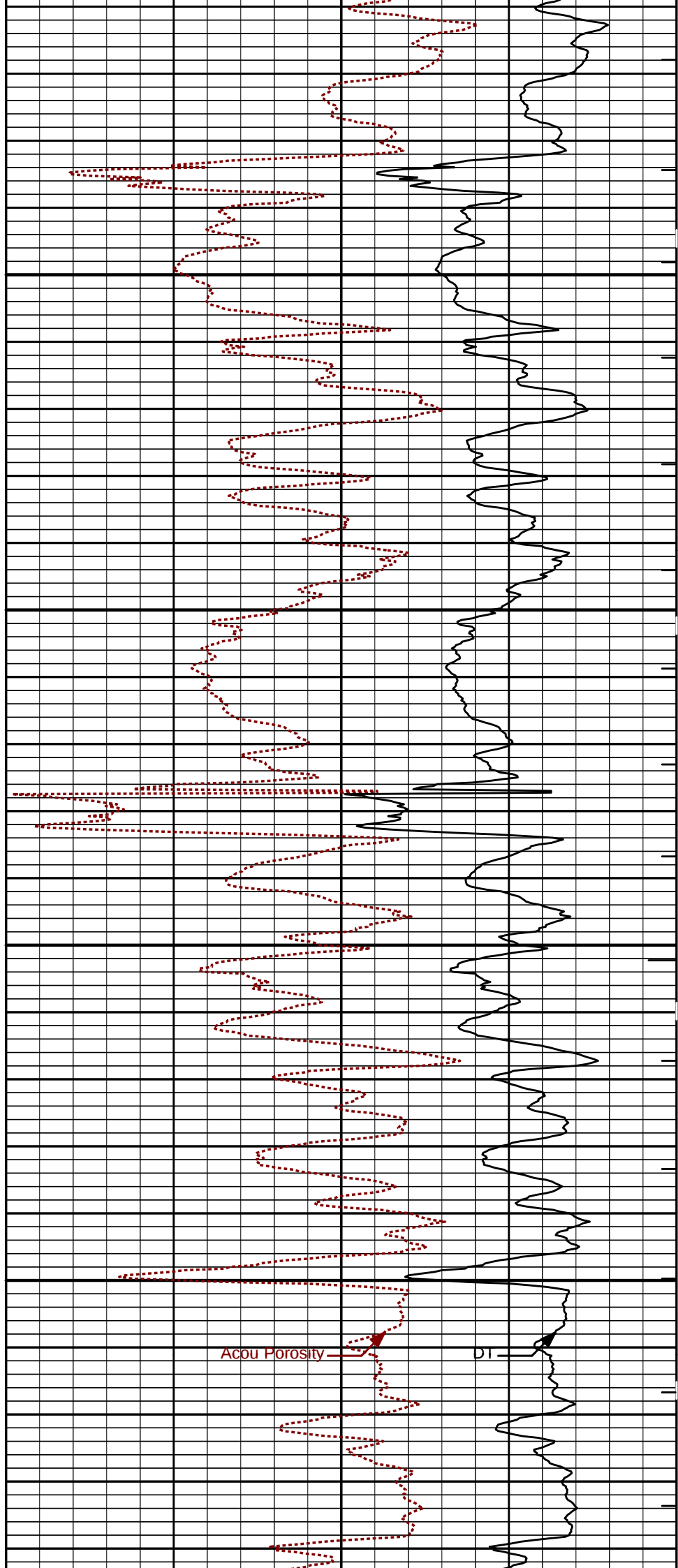
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3900

Gamma API

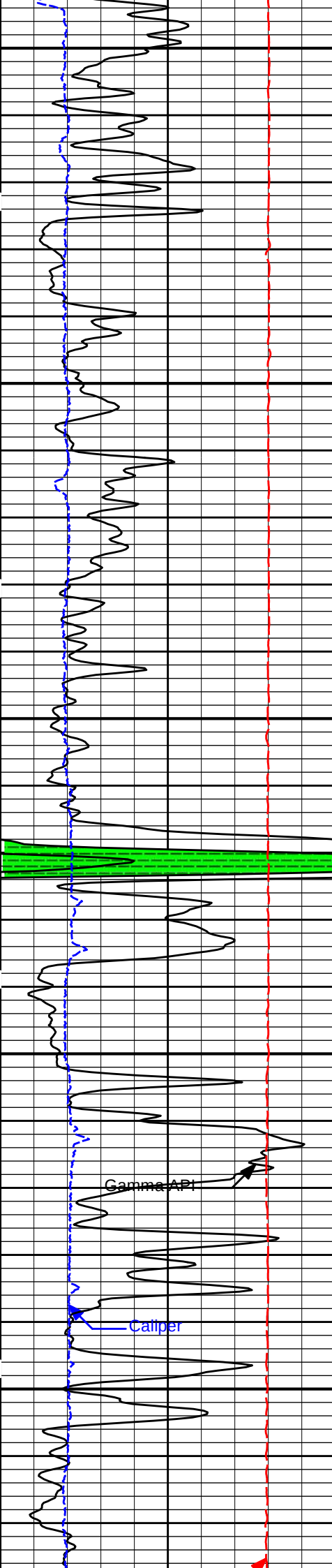
Caliper

Tens



Acou Porosity

DT



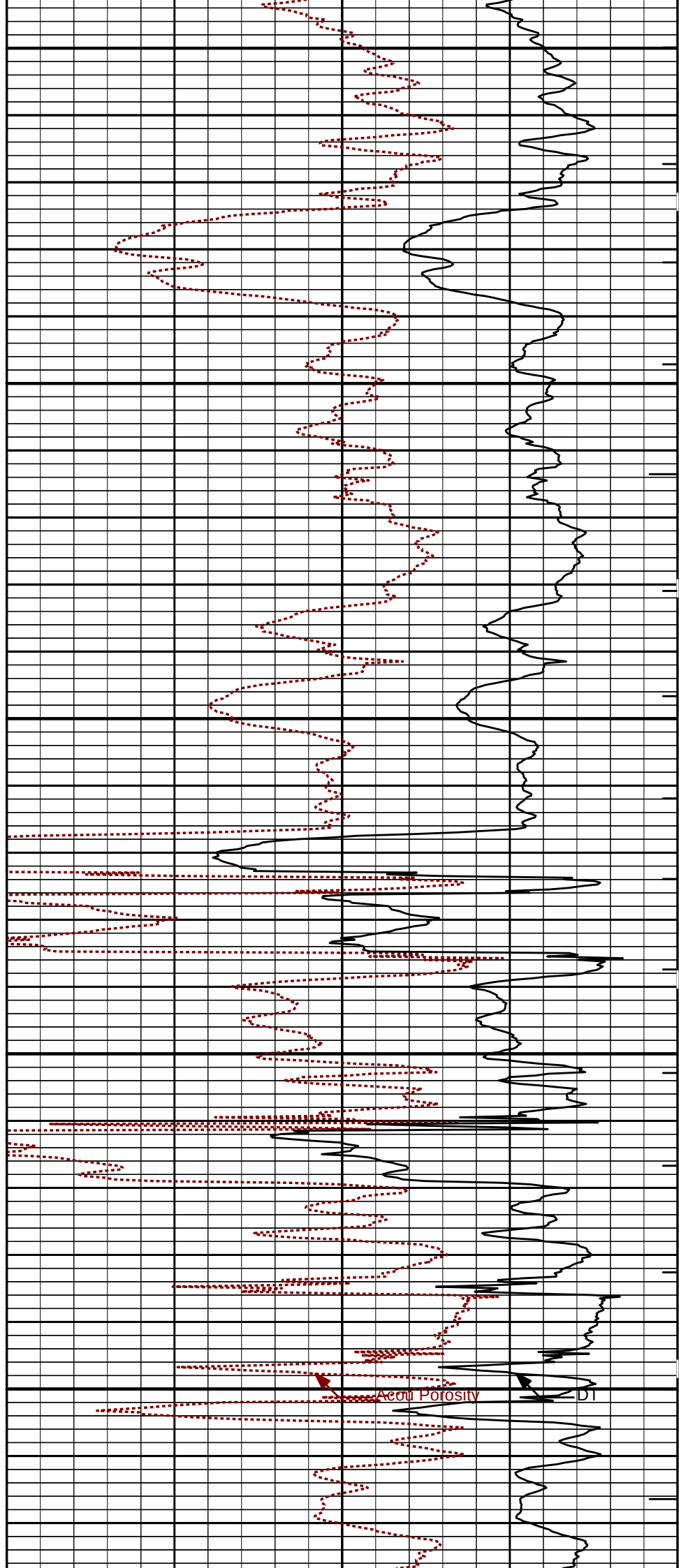
4000

4100

4200

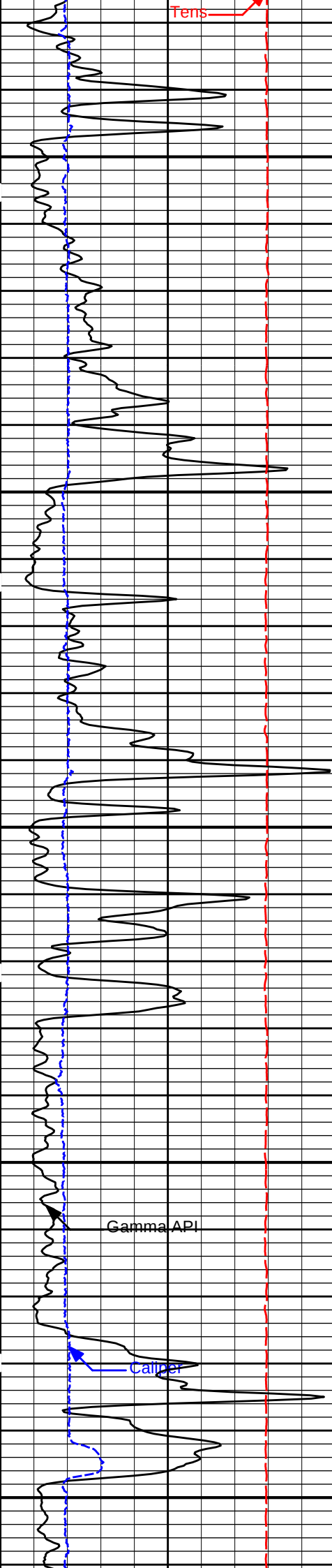
Gamma API

Caliper



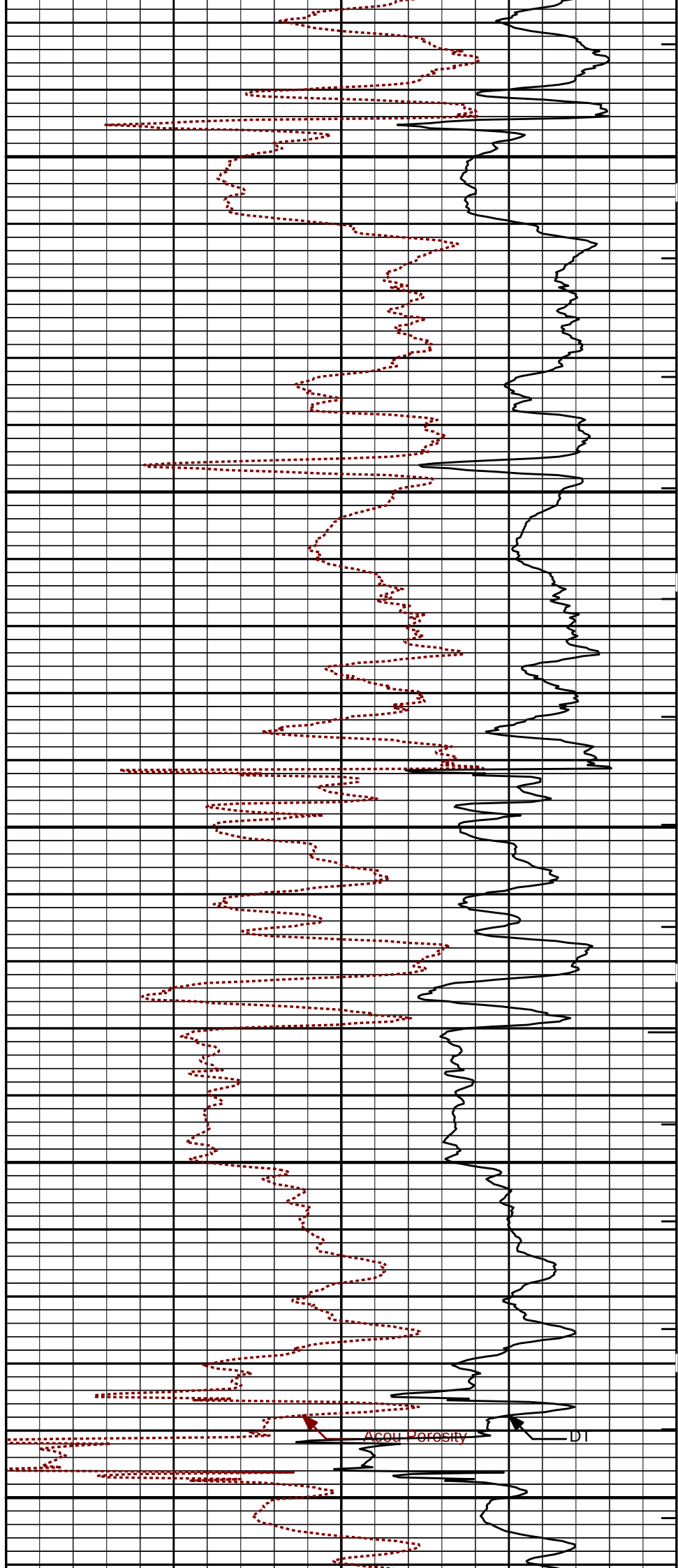
Acoustic Porosity

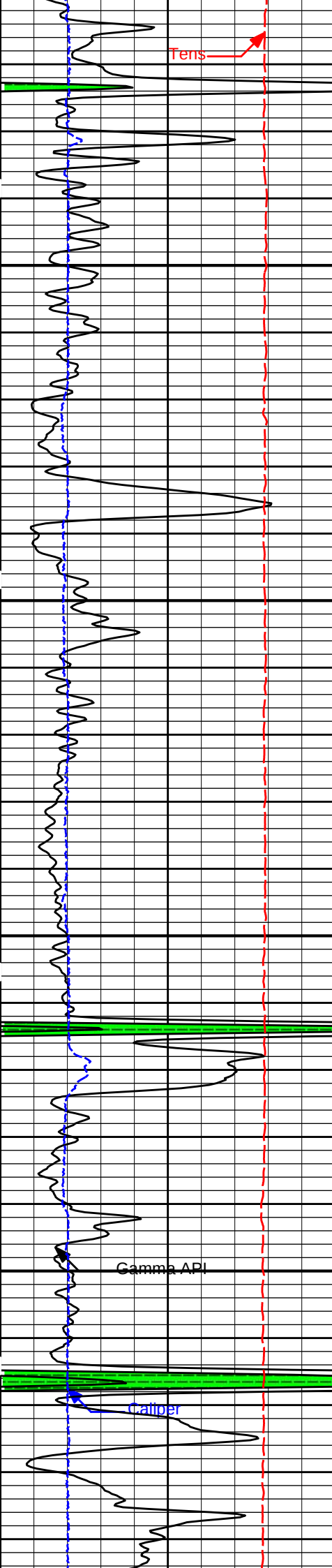
DT



4300

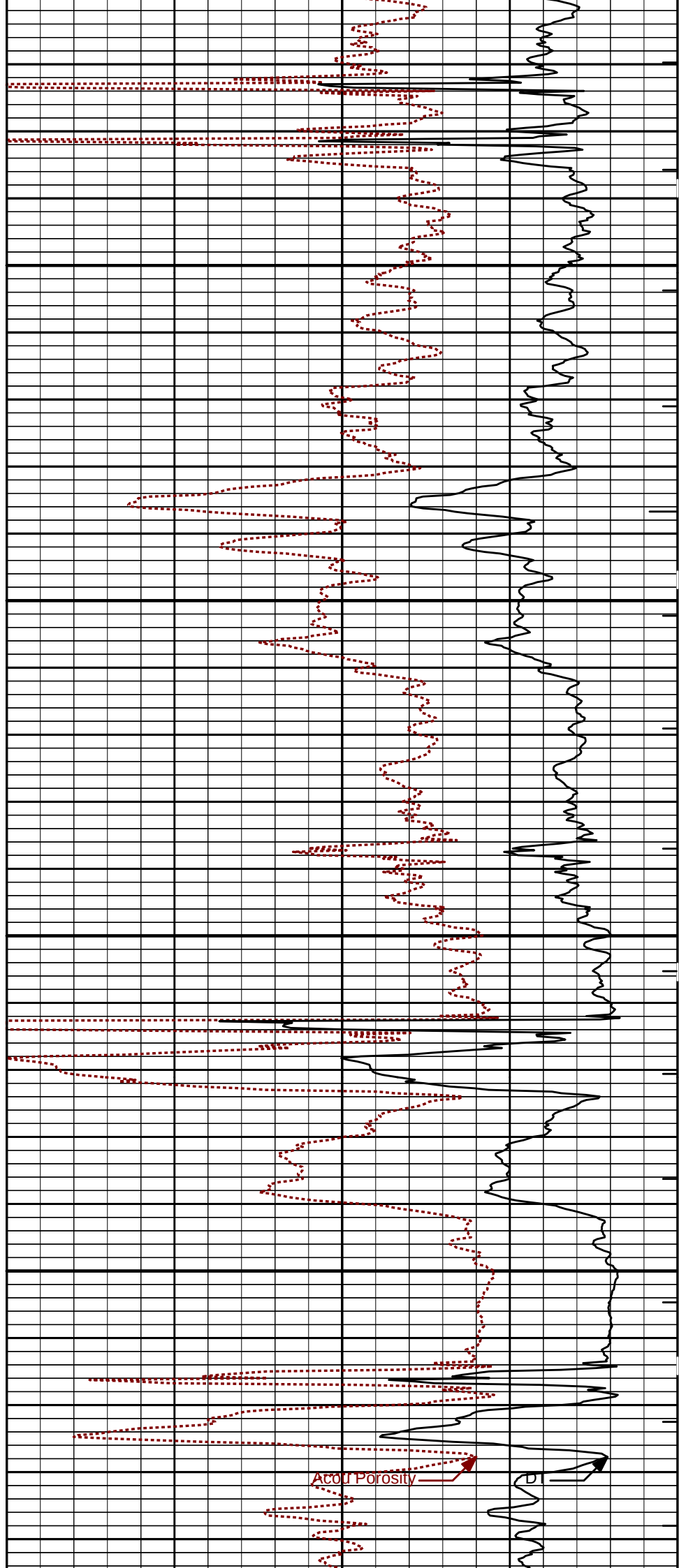
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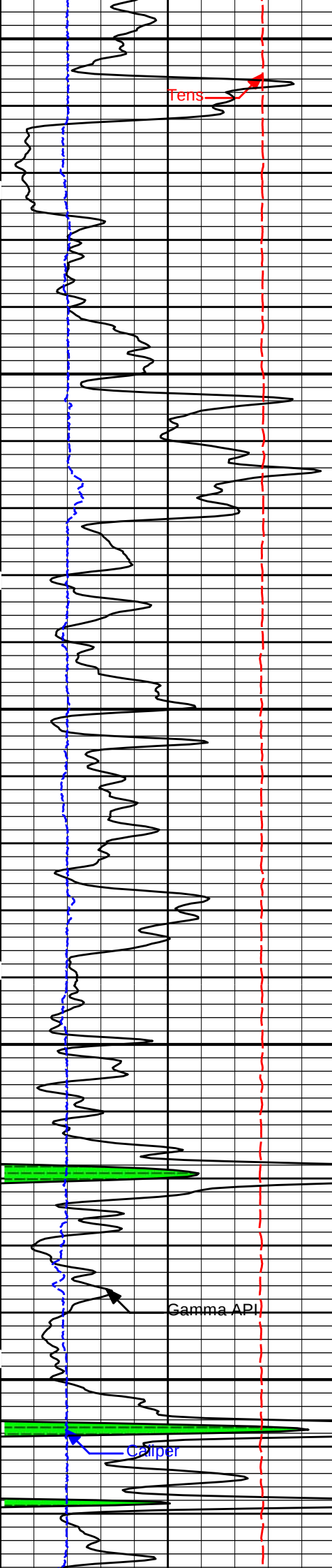




4500

4600

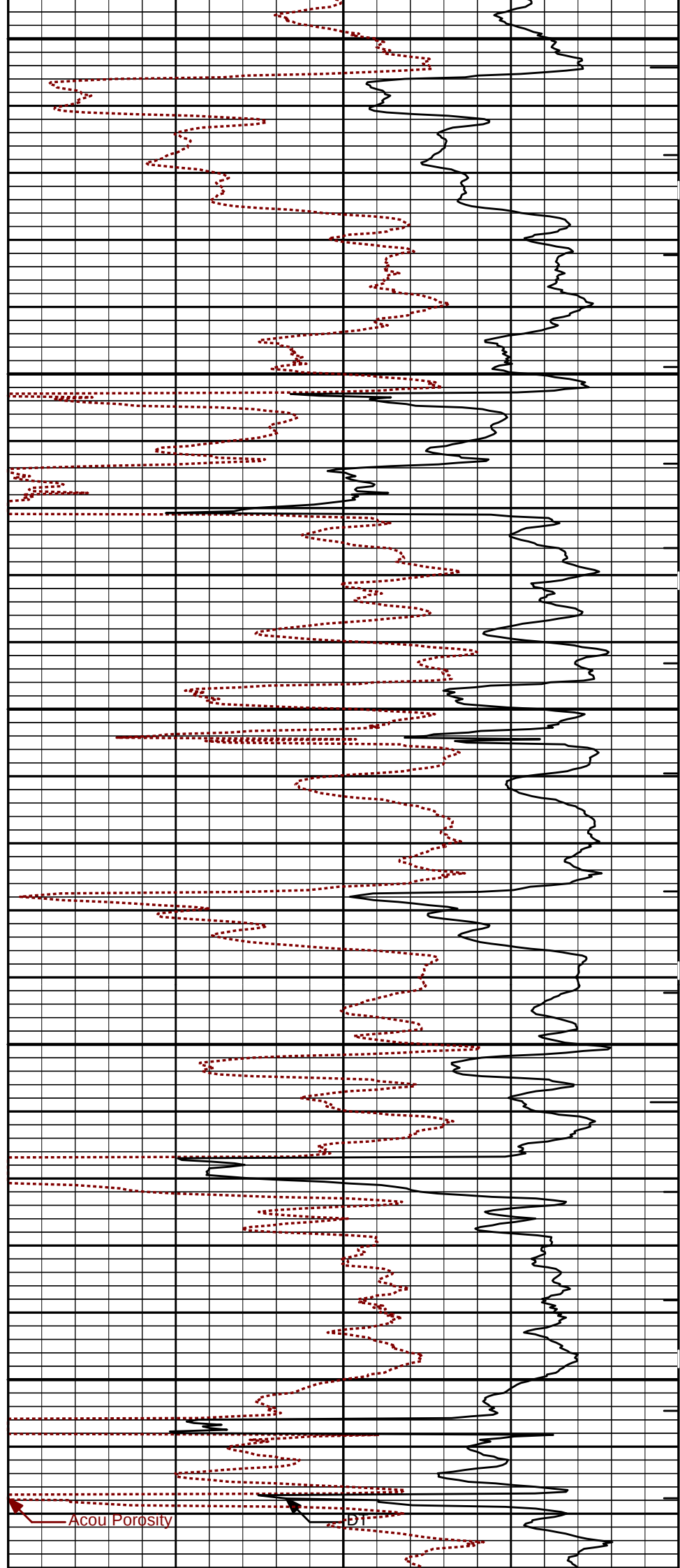




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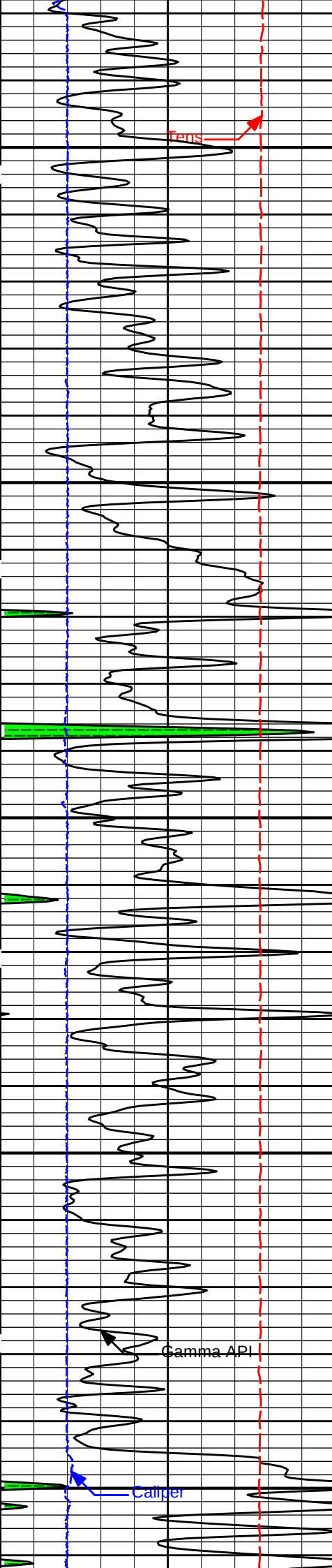
4800

4900



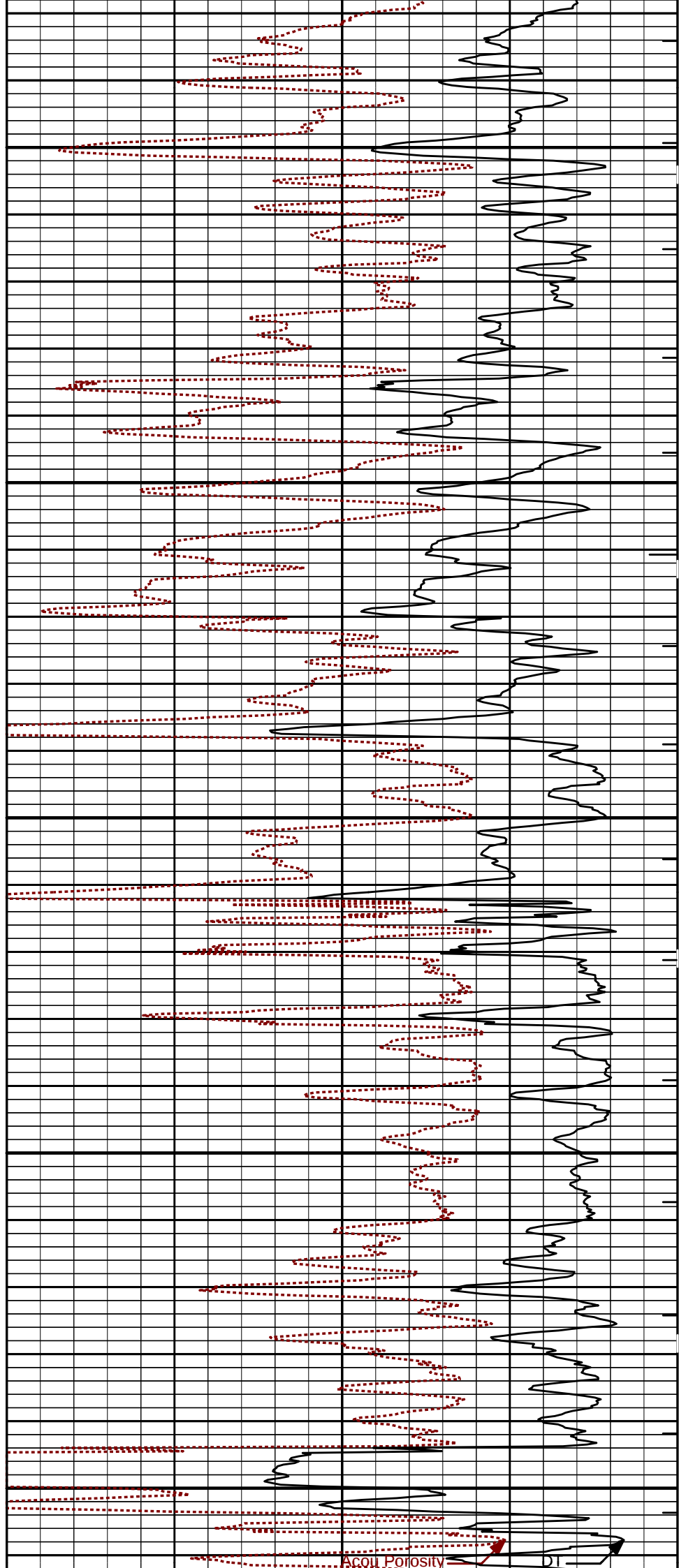
Acou Porosity

DT



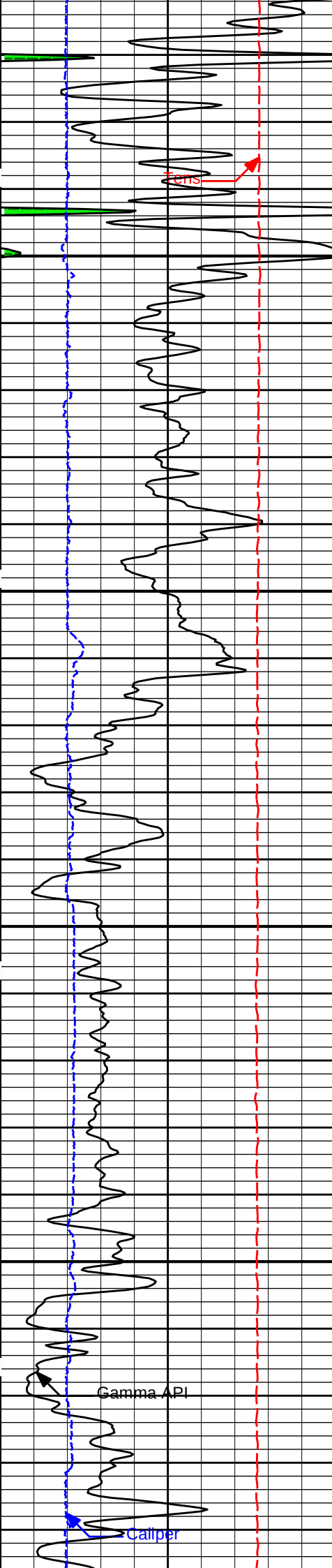
5000

5100



Acoustic Porosity

DT

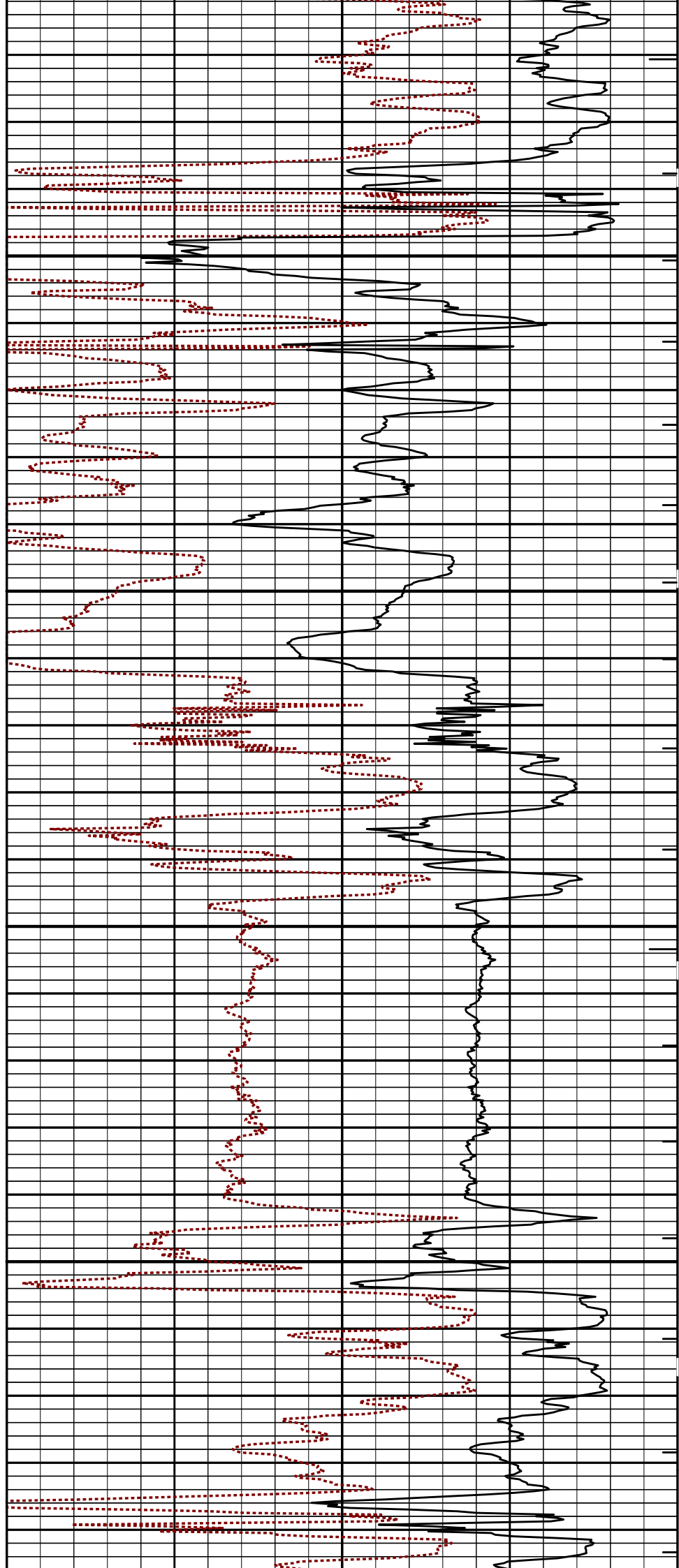


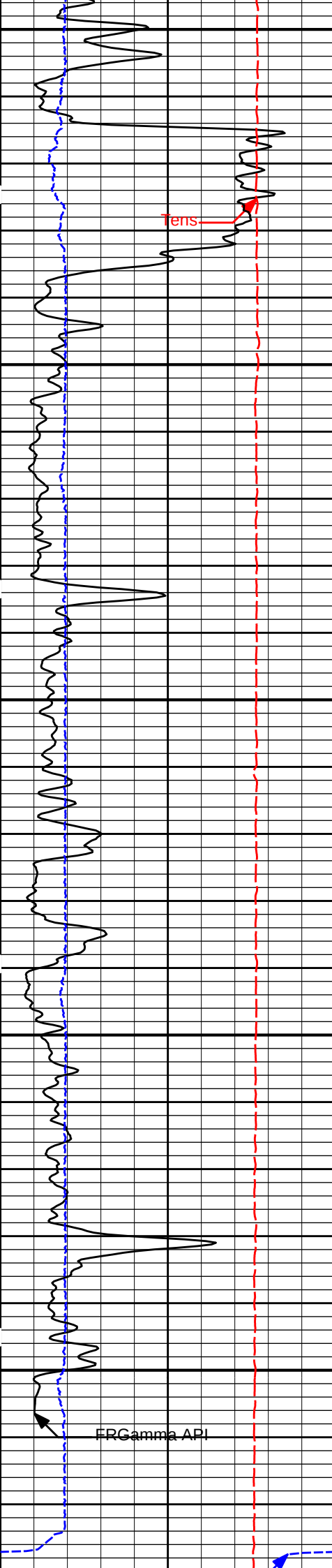
5200

5300

Gamma API

Caliper

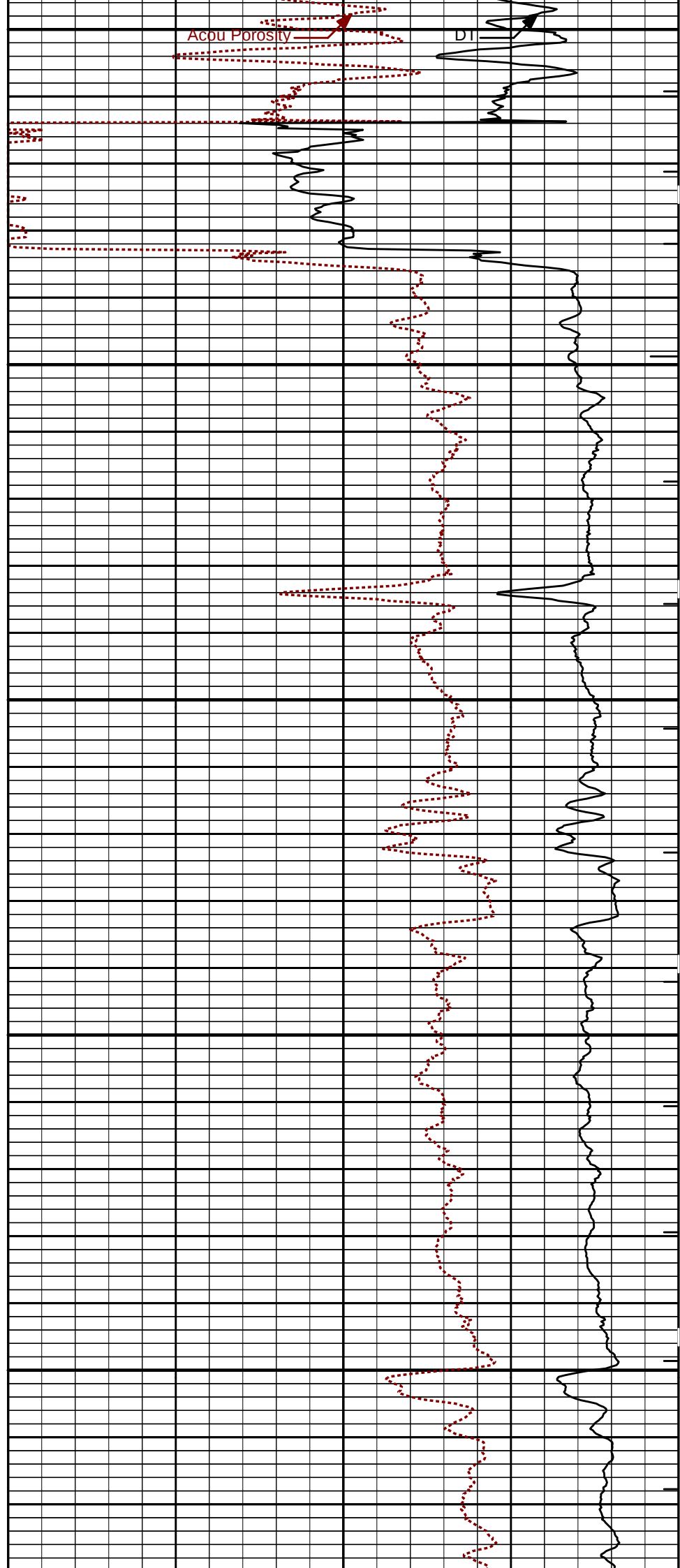


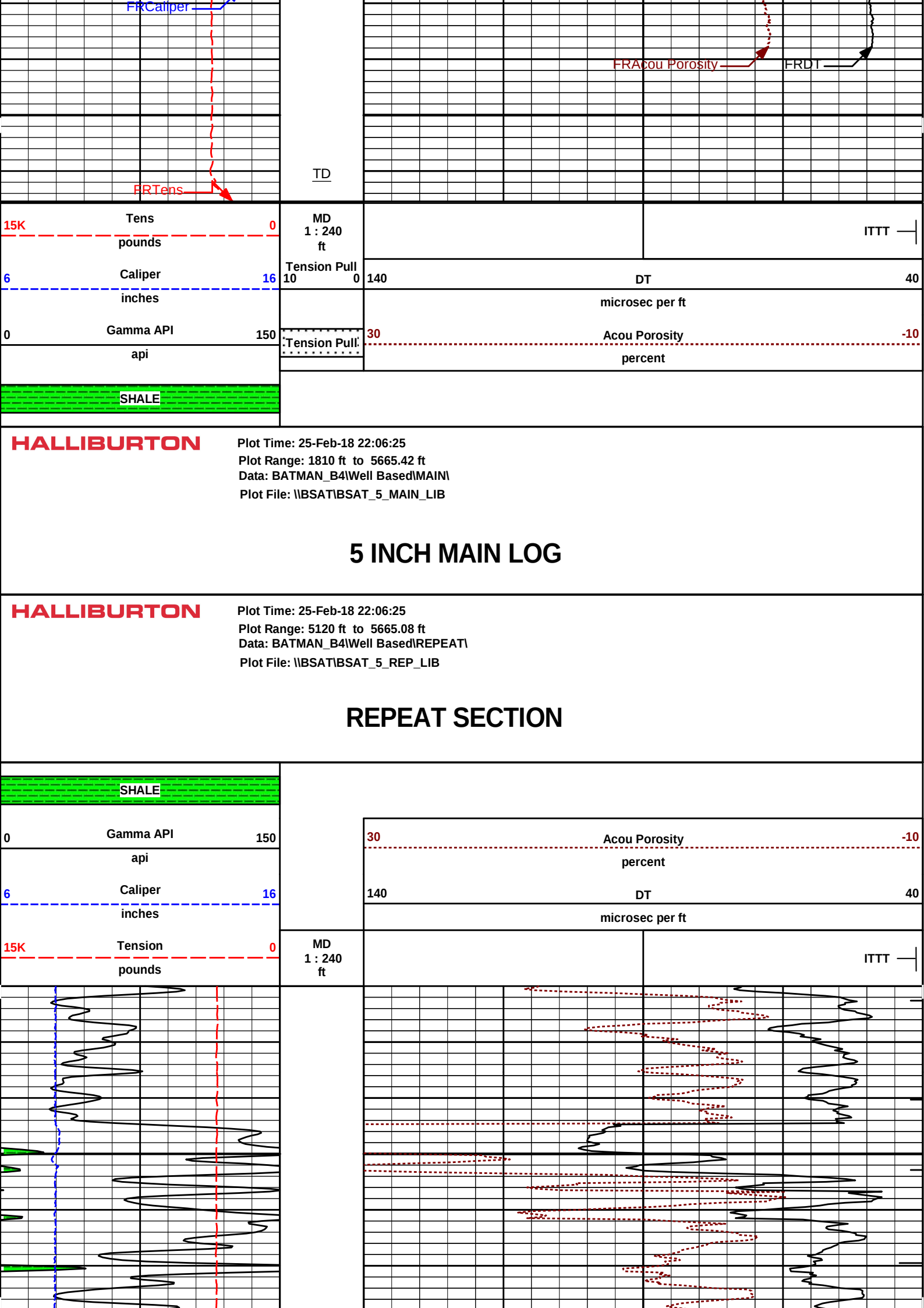


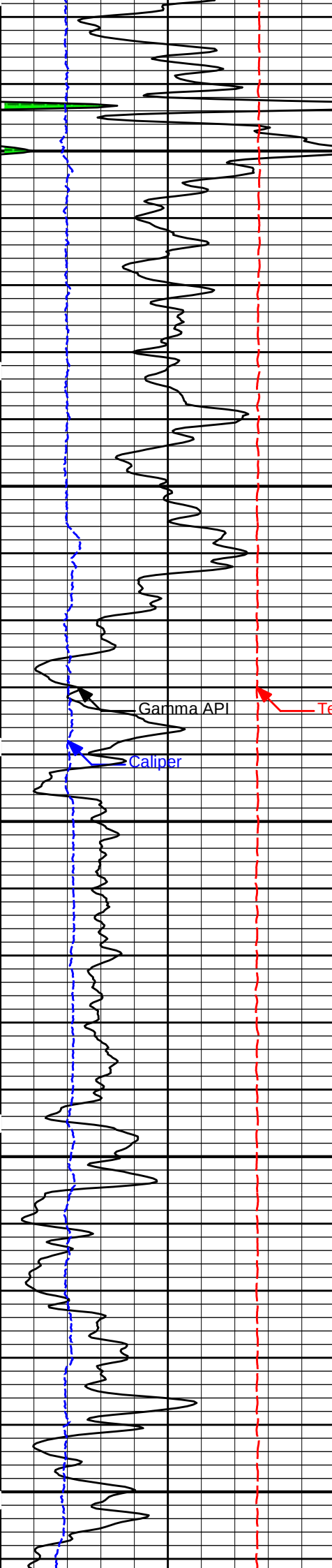
5400

5500

5600







5200

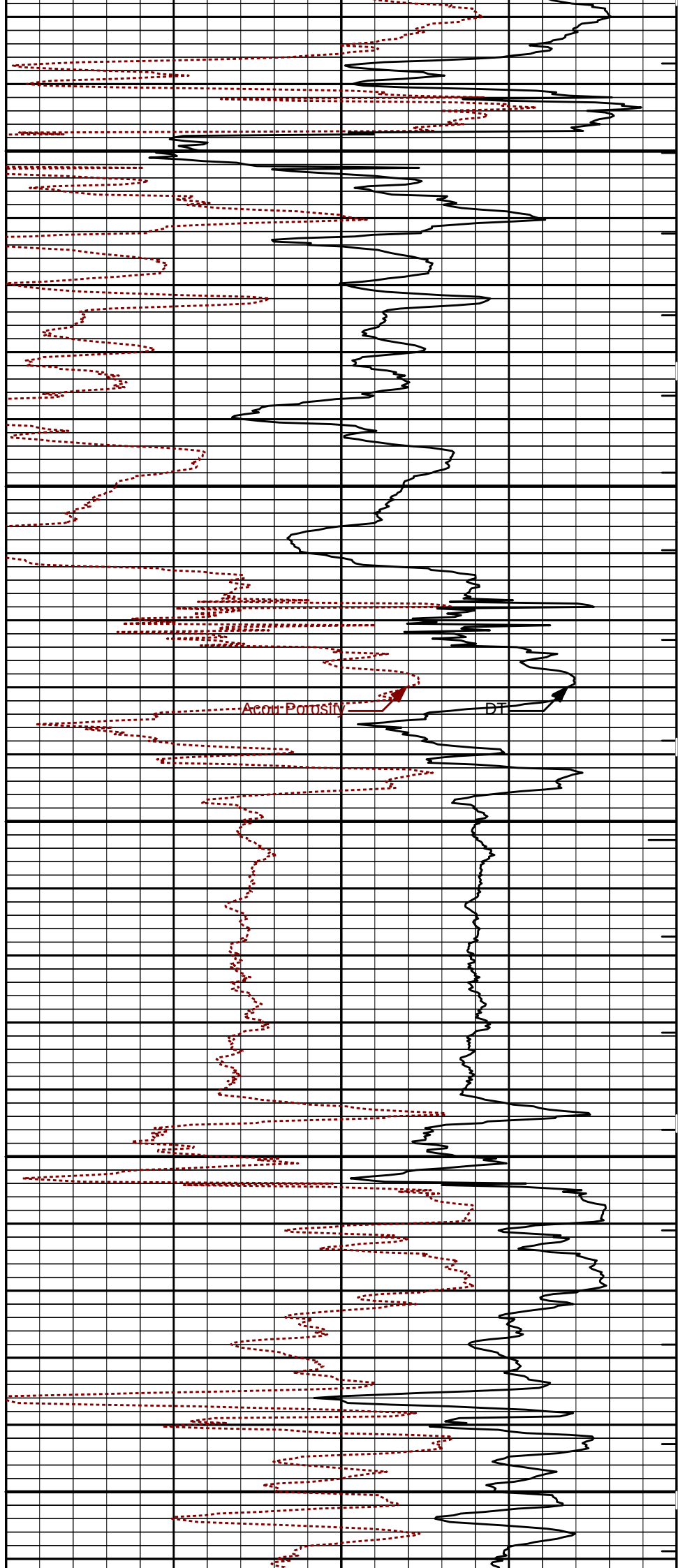
Gamma API

Caliper

Tension

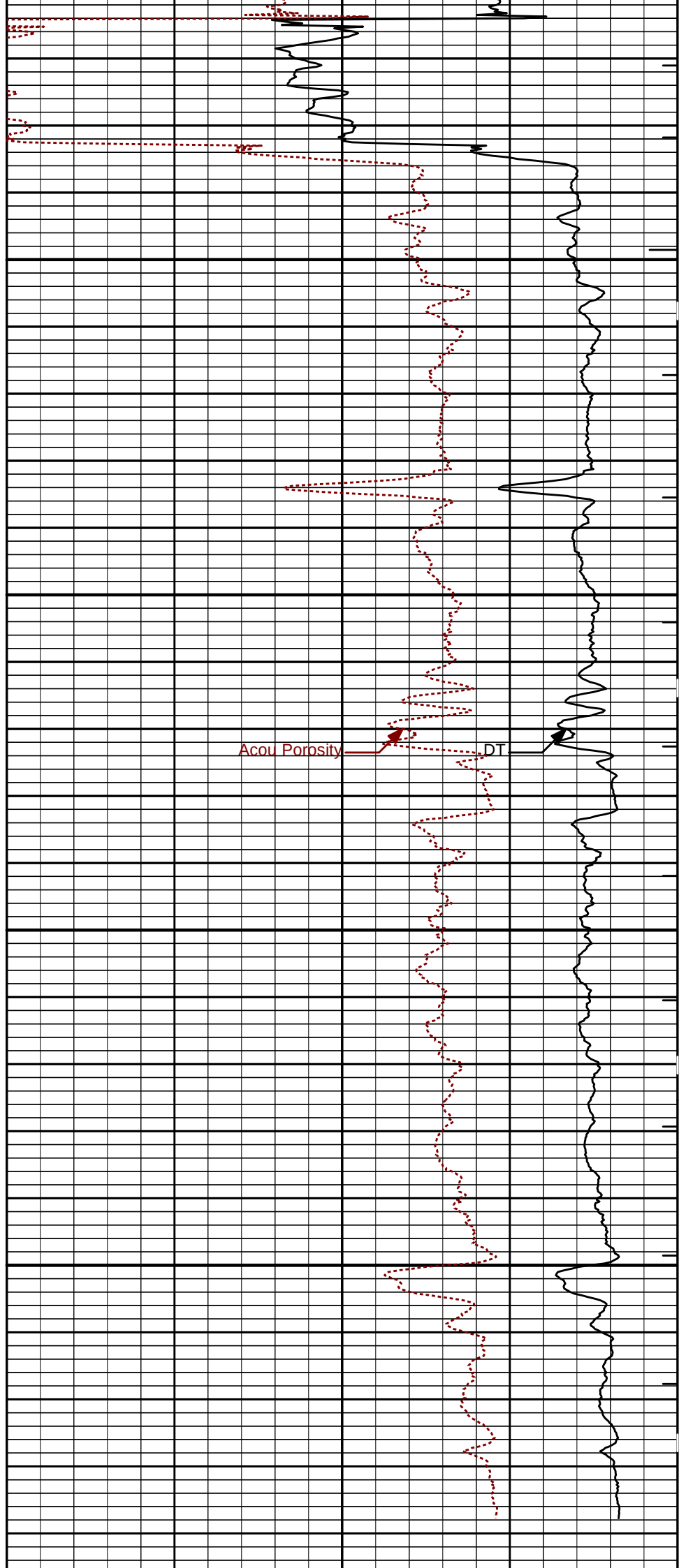
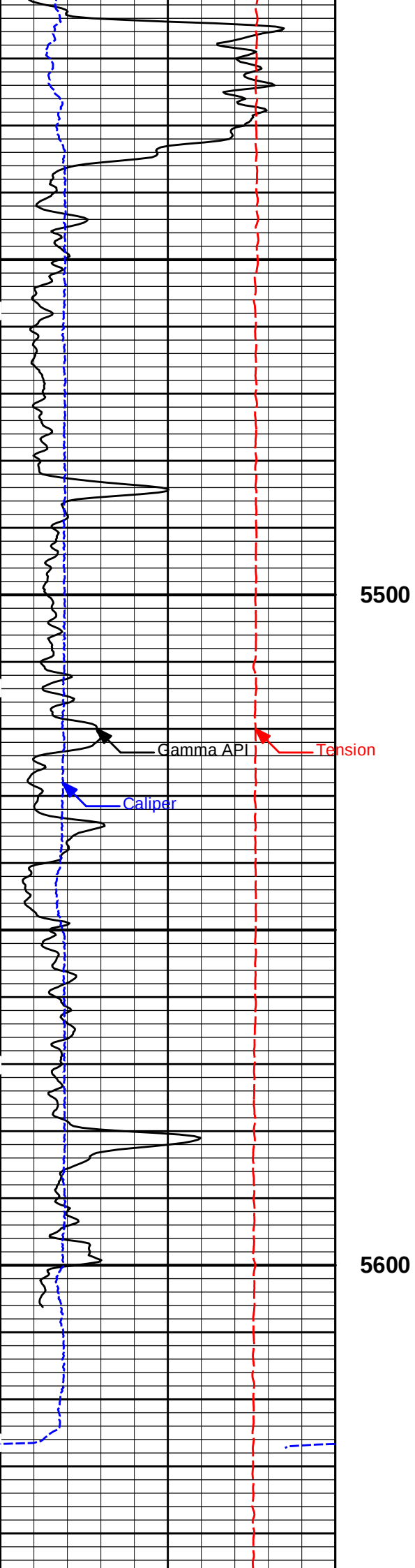
5300

5400



Acoustic Porosity

DT



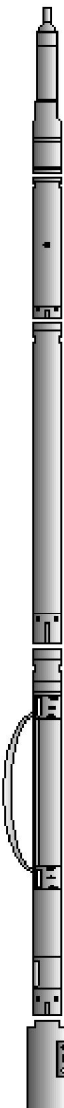
15K	Tension	0
	pounds	
6	Caliper	16
	inches	
0	Gamma API	150
	api	
SHALE		

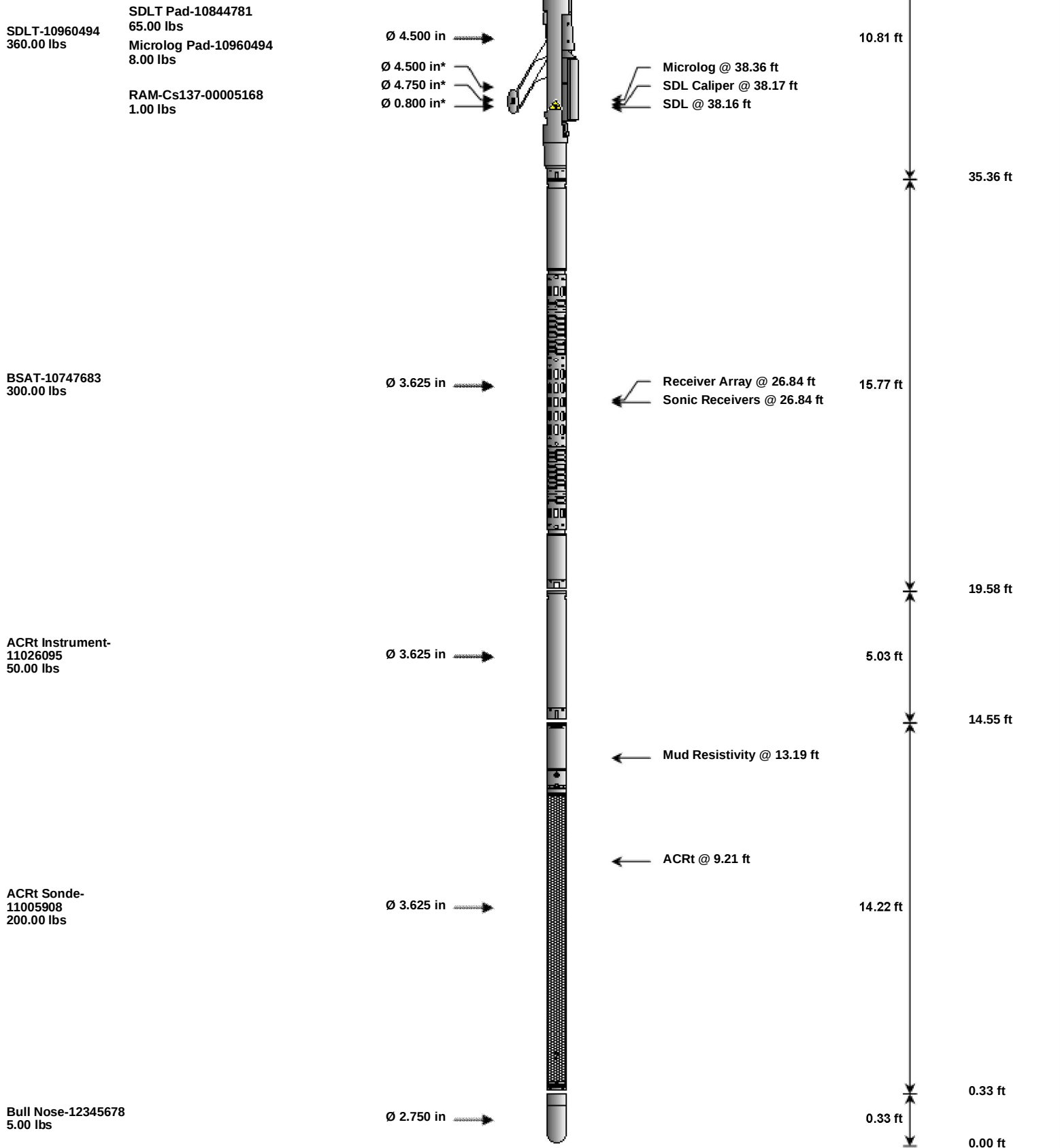
MD 1 : 240 ft		ITTT —
	140	40
	DT	
	microsec per ft	
	30	-10
	Acou Porosity	
	percent	

Plot Time: 25-Feb-18 22:06:27
Plot Range: 5120 ft to 5665.08 ft
Data: BATMAN_B4\Well Based\REPEAT
Plot File: \\BSAT\BSAT_5_REP_LIB

REPEAT SECTION

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length	
CH_HOS-11459024 37.50 lbs	Weak Point 7000 lbs- 00000025 0.01 lbs	Ø 2.750 in Ø 0.010 in*		← Temperature @ 71.07 ft	2.50 ft	71.57 ft	
XOHD-11569312 20.00 lbs		Ø 2.750 in Ø 3.625 in			0.95 ft	69.07 ft	
						68.12 ft	
SP Sub-11441455 60.00 lbs		Ø 3.625 in		← SP @ 66.34 ft	3.74 ft		
				← Z-Accelerometer @ 63.93 ft		64.38 ft	
GTET-11958947 165.00 lbs		Ø 3.625 in			8.52 ft		
				← GammaRay @ 58.32 ft		55.86 ft	
DSNT-11055304 174.00 lbs	DSN Decentralizer- 11055304 6.60 lbs	Ø 5.000 in* Ø 3.625 in		← DSN Far @ 48.92 ft ← DSN Near @ 48.17 ft	9.69 ft		
							46.17 ft



Mnemonic		Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
CH_HOS	Hostile Cable Head with Load Cell		11459024	37.50	2.50	69.07	300.00
WP7K	Weak Point 7000 lbs		00000025	0.01	0.01	* 69.87	300.00
XOHD	Hostile to Dits Cross Over		11569312	20.00	0.95	68.12	300.00
SP	SP Sub		11441455	60.00	3.74	64.38	300.00
GTET	Gamma Telemetry Tool		11958947	165.00	8.52	55.86	60.00
DSNT	Dual Spaced Neutron		11055304	174.00	9.69	46.17	60.00
DCNT	DSN Decentralizer		11055304	6.60	5.13	* 49.50	300.00
SDLT	Spectral Density Tool		10960494	360.00	10.81	35.36	60.00
SDLP	Density Insite Pad		10844781	65.00	2.55	* 37.57	60.00
Cs137	Logging Source, SDLT-I, 1.78 Ci - Cs137		00005168	1.00	0.80	* 37.80	300.00
MICP	Microlog Pad		10960494	8.00	1.00	* 37.86	60.00
BSAT	Borehole Sonic Array Tool		10747683	300.00	15.77	19.58	60.00
ACRt	Array Compensated True Resistivity Instrument Section		11026095	50.00	5.03	14.55	120.00

ACRT	Array Compensated True Resistivity Sonde Section	11005908	200.00	14.22	0.33	120.00
BLNS	Bull Nose	12345678	5.00	0.33	0.00	300.00
Total			1,452.11	71.57		
* Not included in Total Length and Length Accumulation.						
Data: BATMAN_B4I0001 GTET-DSNT-SDLT-BSAT-ACRTIDLE				Date: 25-Feb-18 19:19:43		



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	9.100	ppg
	SHARED	WAGT	Weighting Agent	Natural	
	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	1.670	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	5655.00	ft
	SHARED	BHT	Bottom Hole Temperature	141.0	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	
	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	1.52	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	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	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	2.710g/cc
SDLT Pad	DFL	Formation Density Fluid	1.000g/cc
SDLT Pad	BHSM	Borehole Size Source Tool	SDLT
BSAT	MBOK	Compute BCAS Results?	Yes
BSAT	FLLO	Frequency Filter Low Pass Value?	5000Hz
BSAT	FLHI	Frequency Filter High Pass Value?	27000Hz
BSAT	DTFL	Delta -T Pore Fluid	189.00uspf
BSAT	DTMT	Delta -T Matrix Type	Limestone 47.6
BSAT	DTSH	Delta -T Shale	100.00uspf
BSAT	SPEQ	Acoustic Porosity Equation	Wylie
ACRt Sonde	RTOK	Process ACRt?	Yes
ACRt Sonde	MNSO	Minimum Tool Standoff	1.50in
ACRt Sonde	TCS1	Temperature Correction Source	FP Lwr & FP Upr
ACRt Sonde	TPOS	Tool Position	Free Hanging
ACRt Sonde	RMOP	Rmud Source	Mud Cell
ACRt Sonde	RMIN	Minimum Resistivity for MAP	0.20ohmm
ACRt Sonde	RMAX	Maximum Resistivity for MAP	200.00ohmm
ACRt Sonde	THQY	Threshold Quality	0.50
ACRt Sonde	MRFX	Fixed mud resistivity	2000ohmm
ACRt Sonde	BHSM	Borehole Size Source Tool	SDLT
ACRt Sonde	MBFL	Apply Corkscrew Effect?	No
BOTTOM			
Data: BATMAN_B4I0001 GTET-DSNT-SDLT-BSAT-ACRTI			Date: 25-Feb-18 19:46:39

HALLIBURTON CALIBRATION REPORT																			
NATURAL GAMMA RAY TOOL SHOP CALIBRATION																			
Tool Name:	GTET - 11958947	Reference Calibration Date:	20-Feb-18 09:19:12																
Engineer:	JORGE ORLANDO PEREZ	Calibration Date:	20-Feb-18 09:23:22																
Software Version:	WL INSITE R5.0.5 (Build 8)	Calibration Version:	1																
Calibrator Source S/N: TB-146 Calibrator API Reference:225.00 api Equivalent Calibrator API Reference:228.9 api <table> <tr> <th>Measurement</th><th>Measured</th><th>Calibrated</th><th>Units</th></tr> <tr> <td>Background</td><td>29.2</td><td>29.5</td><td>api</td></tr> <tr> <td>Background + Calibrator</td><td>256.0</td><td>258.4</td><td>api</td></tr> <tr> <td>Calibrator</td><td>226.8</td><td>228.9</td><td>api</td></tr> </table>				Measurement	Measured	Calibrated	Units	Background	29.2	29.5	api	Background + Calibrator	256.0	258.4	api	Calibrator	226.8	228.9	api
Measurement	Measured	Calibrated	Units																
Background	29.2	29.5	api																
Background + Calibrator	256.0	258.4	api																
Calibrator	226.8	228.9	api																
NATURAL GAMMA RAY TOOL FIELD CALIBRATION																			
Tool Name:	GTET - 11958947	Reference Calibration Date:	20-Feb-18 09:23:22																
Engineer:	JORGE ORLANDO PEREZ	Calibration Date:	20-Feb-18 09:28:38																
Software Version:	WL INSITE R5.0.5 (Build 8)	Calibration Version:	1																

Field Verification	Shop	Field	Units
Background	29.5	30.3	api
Background + Calibrator	258.4	262.2	api
Calibrator	228.9	231.8	api

Shop	Field	Difference	Tolerance
228.9	231.8	-2.9	+/- 9.00

DENSITY CALIPER SHOP CALIBRATION

Tool Name:	SDLT - 10960494	Reference Calibration Date:	20-Aug-17 12:41:21
Engineer:	JORGE ORLANDO PEREZ	Calibration Date:	09-Dec-17 12:48:22
Software Version:	WL INSITE R5.0.5 (Build 8)	Calibration Version:	1
Host Tool Name:	DSNT - 11055304		

CALIBRATION COEFFICIENTS			
Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-2993.12	-3003.48	-7000.00 - -1000.00
Pad Gain	0.0003799	0.0003806	0.0002000 - 0.0006000
Arm Offset	-746.82	-1647.28	-5000.00 - 3000.00
Arm Gain	0.0004486	0.0005279	0.000300 - 0.000700
Arm Power	-0.000001023	-0.000005848	-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)	2.00	2.00	0.00	+/- 0.20
Medium Ring (in)	3.75	3.75	0.00	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.64	6.50	-0.14	+/- 0.20
Medium Ring (in)	8.21	8.25	0.04	+/- 0.20
Large Ring (in)	14.95	15.00	0.05	+/- 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 - 10960494	Reference Calibration Date:	09-Dec-17 12:48:22
Engineer:	JORGE ORLANDO PEREZ	Calibration Date:	20-Feb-18 09:50:40
Software Version:	WL INSITE R5.0.5 (Build 8)	Calibration Version:	1

MEASURED CALIPER VALUES				
Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.75	-0.00	+/- 0.10
Ring Diameter	8.25	8.25	0.00	+/- 0.15

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

CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11958947						
Gamma Ray Calibrator	228.9	231.8	-----	-2.9	+/- 9.00	api
SDLT-10960494						
Pad Extension	3.75	3.75	-----	0.00	+/-0.10	in
Ring Diameter	8.25	8.25	-----	0.00	+/-0.15	in
Data: BATMAN_B4\0001 GTET-DSNT-SDLT-BSAT-ACRT\IDLE				Date: 25-Feb-18 19:43:16		

HALLIBURTON					
INPUTS, DELAYS AND FILTERS TABLE					
Mnemonic		Input Description	Delay (ft)	Filter Type	Filter Length (ft)
Depth Panel					
TENS	Tension		0.00	NO	
Rwa / CrossPlot					
TPUL	Tension Pull		71.57	NO	
BS	Bit Size		71.57	NO	
HDIA	Measured Hole Diameter		0.00	NO	
CH_HOS					
DHTN	DownholeTension		0.00	BLK	0.000
SP Sub					
PLTC	Plot Control Mask		66.34	NO	
SP	Spontaneous Potential		66.34	BLK	1.250
SPR	Raw Spontaneous Potential		66.34	NO	
SPO	Spontaneous Potential Offset		66.34	NO	
GTET					
TPUL	Tension Pull		58.32	NO	
GR	Natural Gamma Ray API		58.32	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API		58.32	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution		58.32	W	1.416 , 0.750
HDIA	Measured Hole Diameter		0.00	NO	
ACCZ	Accelerometer Z		0.00	BLK	0.083
DEVI	Inclination		0.00	NO	
DSNT					
TPUL	Tension Pull		48.07	NO	
RNDS	Near Detector Telemetry Counts		48.17	BLK	1.417
RFDS	Far Detector Telemetry Counts		48.92	TRI	0.583
DNTT	DSN Tool Temperature		48.17	NO	
DSNS	DSN Tool Status		48.07	NO	
ERND	Near Detector Telemetry Counts EVR		48.17	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR		48.92	BLK	0.000
ENTM	DSN Tool Temperature EVR		48.17	NO	
HDIA	Measured Hole Diameter		0.00	NO	
SDLT					
TPUL	Tension Pull		38.17	NO	
PCAL	Pad Caliper		38.17	TRI	0.250
ACAL	Arm Caliper		38.17	TRI	0.250
BSAT					

TPUL	Tension Pull	26.84	NO	
STAT	Status	26.84	NO	
DLYT	Delay Time	26.84	NO	
SI	Sample Interval	26.84	NO	
TXRX	Raw Telemetry 10 Receivers	26.84	NO	
FRMC	Tool Frame Count	26.84	NO	
GMOD	Gain processing mode	19.58	NO	
ACRt Sonde				
TPUL	Tension Pull	2.73	NO	
F1R1	ACRT 12KHz - 80in R value	8.98	BLK	0.000
F1X1	ACRT 12KHz - 80in X value	8.98	BLK	0.000
F1R2	ACRT 12KHz - 50in R value	6.48	BLK	0.000
F1X2	ACRT 12KHz - 50in X value	6.48	BLK	0.000
F1R3	ACRT 12KHz - 29in R value	4.98	BLK	0.000
F1X3	ACRT 12KHz - 29in X value	4.98	BLK	0.000
F1R4	ACRT 12KHz - 17in R value	3.98	BLK	0.000
F1X4	ACRT 12KHz - 17in X value	3.98	BLK	0.000
F1R5	ACRT 12KHz - 10in R value	3.48	BLK	0.000
F1X5	ACRT 12KHz - 10in X value	3.48	BLK	0.000
F1R6	ACRT 12KHz - 6in R value	3.23	BLK	0.000
F1X6	ACRT 12KHz - 6in X value	3.23	BLK	0.000
F2R1	ACRT 36KHz - 80in R value	8.98	BLK	0.000
F2X1	ACRT 36KHz - 80in X value	8.98	BLK	0.000
F2R2	ACRT 36KHz - 50in R value	6.48	BLK	0.000
F2X2	ACRT 36KHz - 50in X value	6.48	BLK	0.000
F2R3	ACRT 36KHz - 29in R value	4.98	BLK	0.000
F2X3	ACRT 36KHz - 29in X value	4.98	BLK	0.000
F2R4	ACRT 36KHz - 17in R value	3.98	BLK	0.000
F2X4	ACRT 36KHz - 17in X value	3.98	BLK	0.000
F2R5	ACRT 36KHz - 10in R value	3.48	BLK	0.000
F2X5	ACRT 36KHz - 10in X value	3.48	BLK	0.000
F2R6	ACRT 36KHz - 6in R value	3.23	BLK	0.000
F2X6	ACRT 36KHz - 6in X value	3.23	BLK	0.000
F3R1	ACRT 72KHz - 80in R value	8.98	BLK	0.000
F3X1	ACRT 72KHz - 80in X value	8.98	BLK	0.000
F3R2	ACRT 72KHz - 50in R value	6.48	BLK	0.000
F3X2	ACRT 72KHz - 50in X value	6.48	BLK	0.000
F3R3	ACRT 72KHz - 29in R value	4.98	BLK	0.000
F3X3	ACRT 72KHz - 29in X value	4.98	BLK	0.000
F3R4	ACRT 72KHz - 17in R value	3.98	BLK	0.000
F3X4	ACRT 72KHz - 17in X value	3.98	BLK	0.000
F3R5	ACRT 72KHz - 10in R value	3.48	BLK	0.000
F3X5	ACRT 72KHz - 10in X value	3.48	BLK	0.000
F3R6	ACRT 72KHz - 6in R value	3.23	BLK	0.000
F3X6	ACRT 72KHz - 6in X value	3.23	BLK	0.000
RMUD	Mud Resistivity	12.52	BLK	0.000
F1RT	Transmitter Reference 12 KHz Real Signal	2.73	BLK	0.000
F1XT	Transmitter Reference 12 KHz Imaginary Signal	2.73	BLK	0.000
F2RT	Transmitter Reference 36 KHz Real Signal	2.73	BLK	0.000
F2XT	Transmitter Reference 36 KHz Imaginary Signal	2.73	BLK	0.000
F3RT	Transmitter Reference 72 KHz Real Signal	2.73	BLK	0.000
F3XT	Transmitter Reference 72 KHz Imaginary Signal	2.73	BLK	0.000
TFPU	Upper Feedpipe Temperature Calculated	2.73	BLK	0.000
TFPL	Lower Feedpipe Temperature Calculated	2.73	BLK	0.000
ITMP	Instrument Temperature	2.73	BLK	0.000
TCVA	Temperature Correction Values Loop Off	2.73	NO	
TIDV	Instrument Temperature Derivative	2.73	NO	
TUDV	Upper Temperature Derivative	2.73	NO	

TPUL	Upper Temperature Derivative	2.73	NO	
TLDV	Lower Temperature Derivative	2.73	NO	
TRBD	Receiver Board Temperature	2.73	NO	
HDIA	Measured Hole Diameter	0.00	NO	
Microlog Pad				
TPUL	Tension Pull	38.36	NO	
MINV	Microlog Lateral	38.36	BLK	0.750
MNOR	Microlog Normal	38.36	BLK	0.750
SDLT Pad				
TPUL	Tension Pull	38.16	NO	
NAB	Near Above	37.99	BLK	0.920
NHI	Near Cesium High	37.99	BLK	0.920
NLO	Near Cesium Low	37.99	BLK	0.920
NVA	Near Valley	37.99	BLK	0.920
NBA	Near Barite	37.99	BLK	0.920
NDE	Near Density	37.99	BLK	0.920
NPK	Near Peak	37.99	BLK	0.920
NLI	Near Lithology	37.99	BLK	0.920
NBAU	Near Barite Unfiltered	37.99	BLK	0.250
NLIU	Near Lithology Unfiltered	37.99	BLK	0.250
FAB	Far Above	38.34	BLK	0.250
FHI	Far Cesium High	38.34	BLK	0.250
FLO	Far Cesium Low	38.34	BLK	0.250
FVA	Far Valley	38.34	BLK	0.250
FBA	Far Barite	38.34	BLK	0.250
FDE	Far Density	38.34	BLK	0.250
FPK	Far Peak	38.34	BLK	0.250
FLI	Far Lithology	38.34	BLK	0.250
PTMP	Pad Temperature	38.17	BLK	0.920
NHV	Near Detector High Voltage	37.57	NO	
FHV	Far Detector High Voltage	37.57	NO	
ITMP	Instrument Temperature	37.57	NO	
DDHV	Detector High Voltage	37.57	NO	
HDIA	Measured Hole Diameter	0.00	NO	
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COMPANY	MERIT ENERGY COMPANY		
WELL	BATMAN B4		
FIELD	SANTA FE NORTH		
COUNTY	HASKELL	STATE	KANSAS
HALLIBURTON		BOREHOLE COMPENSATED SONIC ARRAY LOG	