

COMPANY WELL FIELD/BLOCK COUNTY STATE	MERIT ENERGY COMPANY, LLC WENU 604 EUBANK NORTH HASKELL KANSAS
Permanent Datum Log measured from Drilling measured from Date Run No. Depth - Driller Depth - Logger Bottom - Logged Interval Top - Logged Interval Casing - Driller Casing - Logger Bit Size Type Fluid in Hole Density PH Source of Sample Rm @ Meas. Temperature Rmf @ Meas. Temperature Rmc @ Meas. Temperature Source Rmf Rm @ BHT Time Since Circulation Time on Bottom Max. Rec. Temperature Equipment Location Recorded By Witnessed By	Sect. 04 Twp. 28S Rge. 34SW Elev. 3076.3 ft Elev. 3088.3 ft D.F. 3087.3 ft G.L. 3076.3 ft Other Services: DSNT-SDLT ACRT BSAT
API No. 1508122246000 Location 1666' FWL & 530' FSL	COMPANY WELL FIELD/BLOCK COUNTY STATE
28-Mar-22 ONE 5637.0 ft 5638.0 ft 5594.0 ft 1776.0 ft 8.625 in @ 1780.0 ft 1776.0 ft 7.875 in Water Based Mud 9.2 ppg @ 56.00 s/qt 9.00 pH @ 6.0 optm MUD PIT 1.48 ohmm @ 70.30 degF 1.44 ohmm @ 70.30 degF 0.91 ohmm @ 70.30 degF CALC 0.85 ohmm @ 127.1 degF 03:24 hr 28-Mar-22 14:35 127.10 degF @ 5639.0 ft 12128583 K. BIJERGA KRISTIN ROBINSON	COMPANY WELL FIELD/BLOCK COUNTY STATE
K. BIJERGA KRISTIN ROBINSON	M. ABUEL GASIM

Fold here

Sales Order Number: 907759235				API No.: 1508122246000				PGM Version: WL INSITE R6.4.20 (Build 2)			
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.		@			@						
Rmc @ Meas. Temp.		@			@						
Source Rmf	Rmc										
Rm @ BHT		@			@						
Rmf @ BHT		@			@						
Rmc @ BHT		@			@						
EQUIPMENT DATA											
GAMMA			ACOUSTIC			DENSITY			NEUTRON		
Run No.	ONE		Run No.			Run No.			Run No.		
Serial No.	11172469		Serial No.			Serial No.			Serial No.		
Model No.	GTET		Model No.			Model No.			Model No.		
Diameter	3.625"		No. of Cent.			Diameter			Diameter		
Detector Model No.	GTET		Spacing			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]			Strength			Strength		
LOGGING DATA											

GENERAL			GAMMA		ACOUSTIC		DENSITY		NEUTRON		
Run No.	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix
	From	To	ft/min	L	R	L	R		L	R	
ONE	5638'	1776'	REC	0 gapi	150 gapi						

DIRECTIONAL INFORMATION

Maximum Deviation @ KOP @

Remarks: FIRST LOG ON WELL, POSITIVE DEPTH CONTROL APPLIED
 ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING
 LOGGING INTERVALS AND SERVICES ARE AS PER CUSTOMER REQUEST
 TOOLS RAN IN COMBINATION AS PER TOOLSTRING DIAGRAM
 CHLORIDES REPORTED AT 3,000
 LCM REPORTED AT 22 lb/bbl

CREW: C. HERRERA, B. EZEKWU
 *****THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES*****

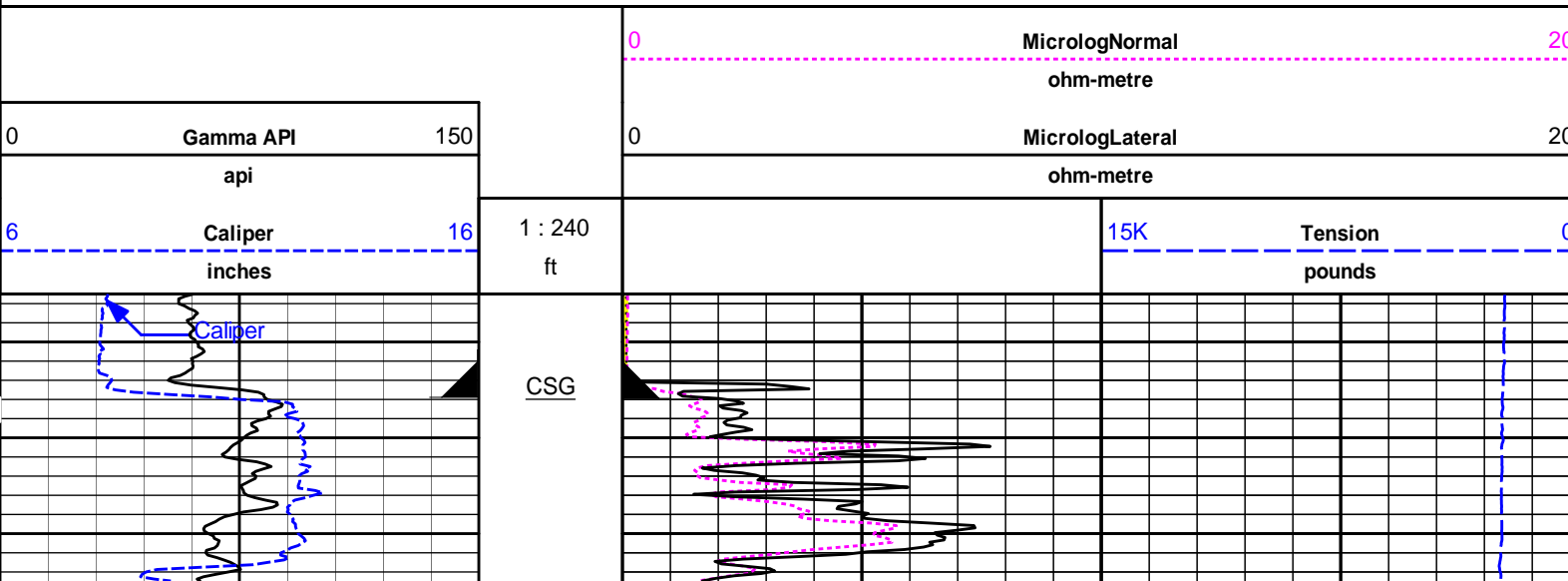
HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR 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.

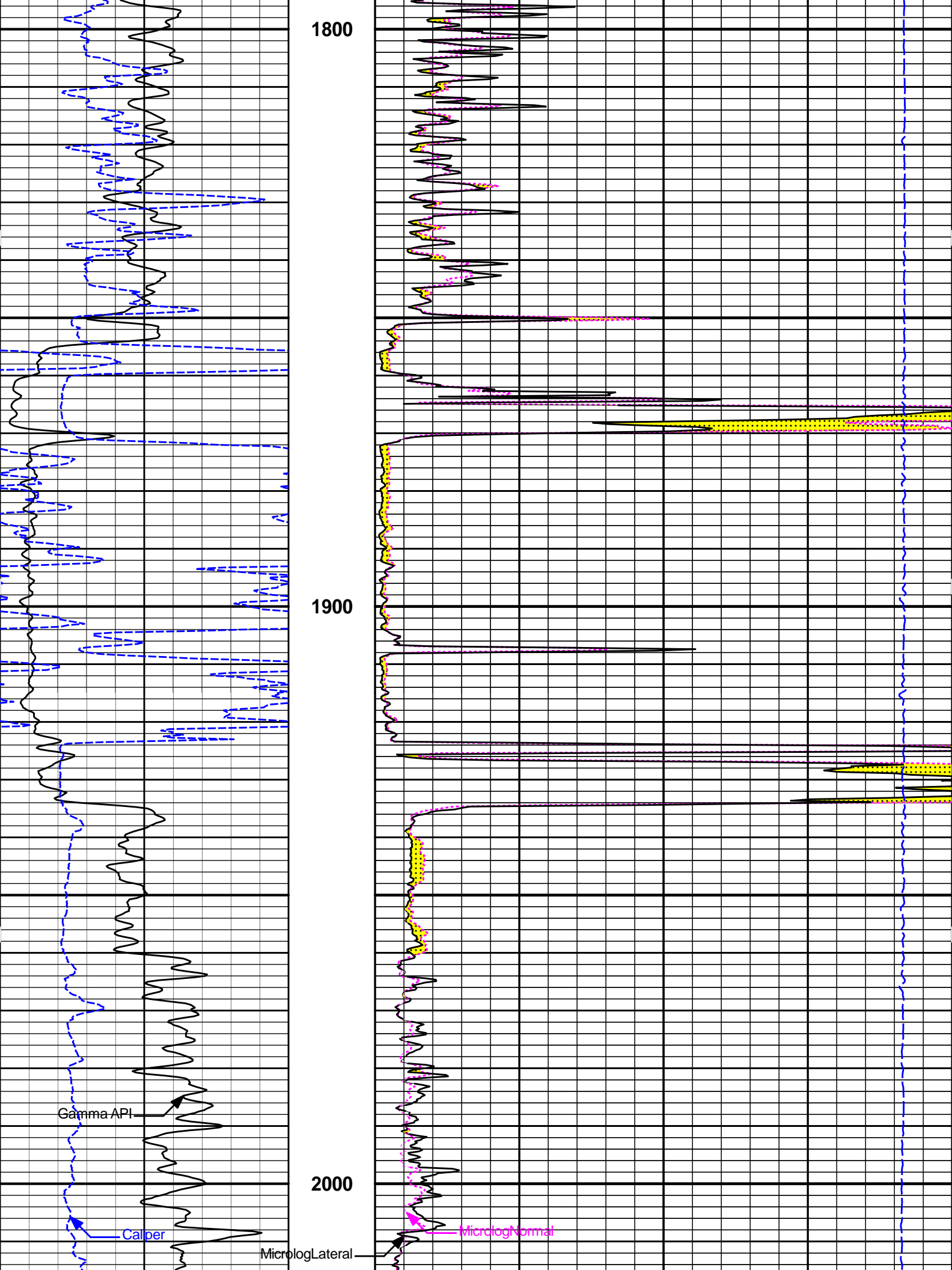
HALLIBURTON

HALLIBURTON	Plot Time: 28-Mar-22 16:56:11
	Plot Range: 1765 ft to 5649.67 ft
	Data: 03-28-MERITWell Based\DAQ-0001-004\
	Plot File: \\-LOCAL-103_01_MERIT0001 RWCH-GTET-DSNT-SDLT-BSAT-ACRTWML\Microlog_IQ_5_main

5 INCH MAIN LOG

MAIN LOG 5" PER 100'





1800

1900

2000

Gamma API

Caliper

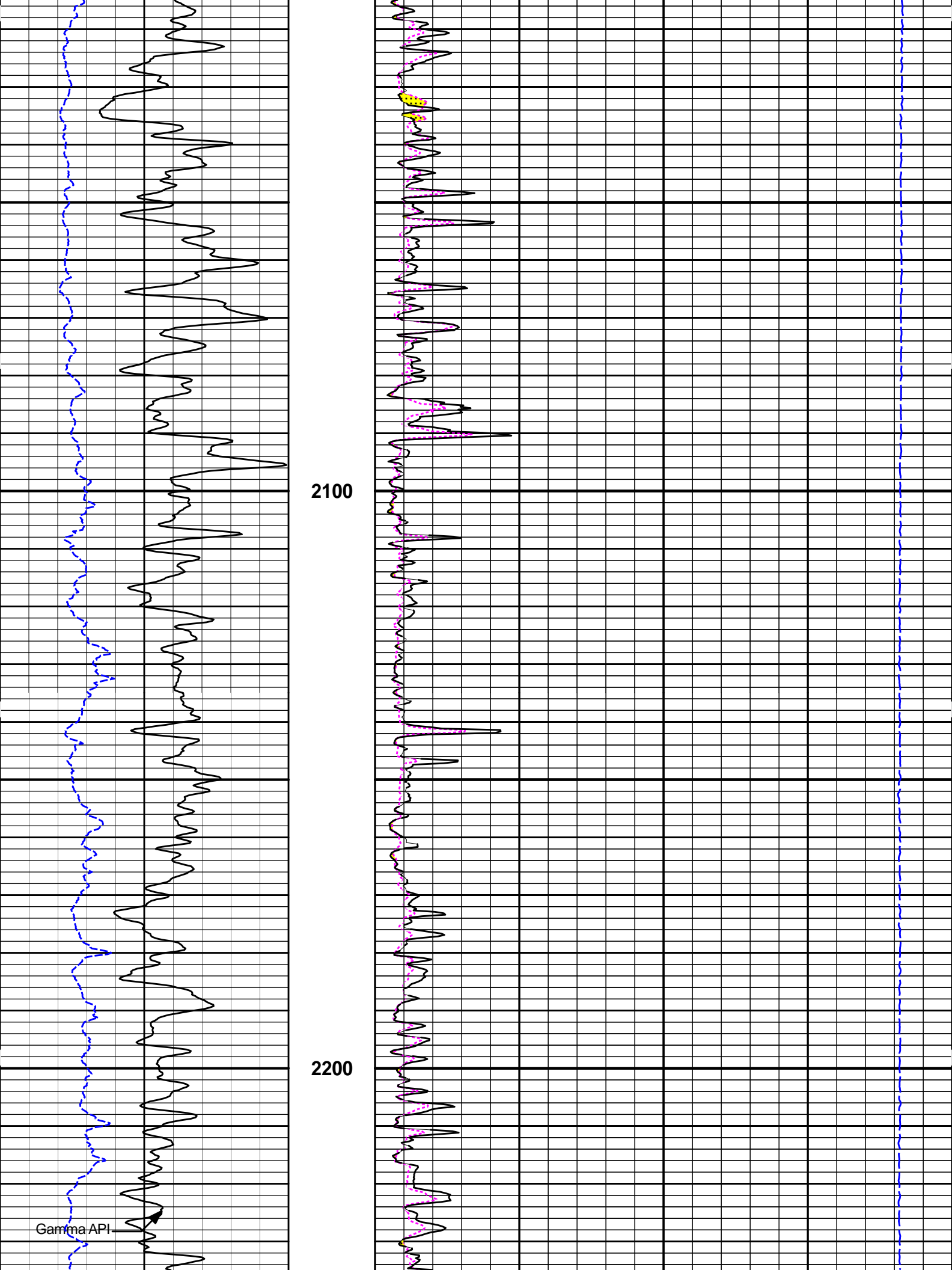
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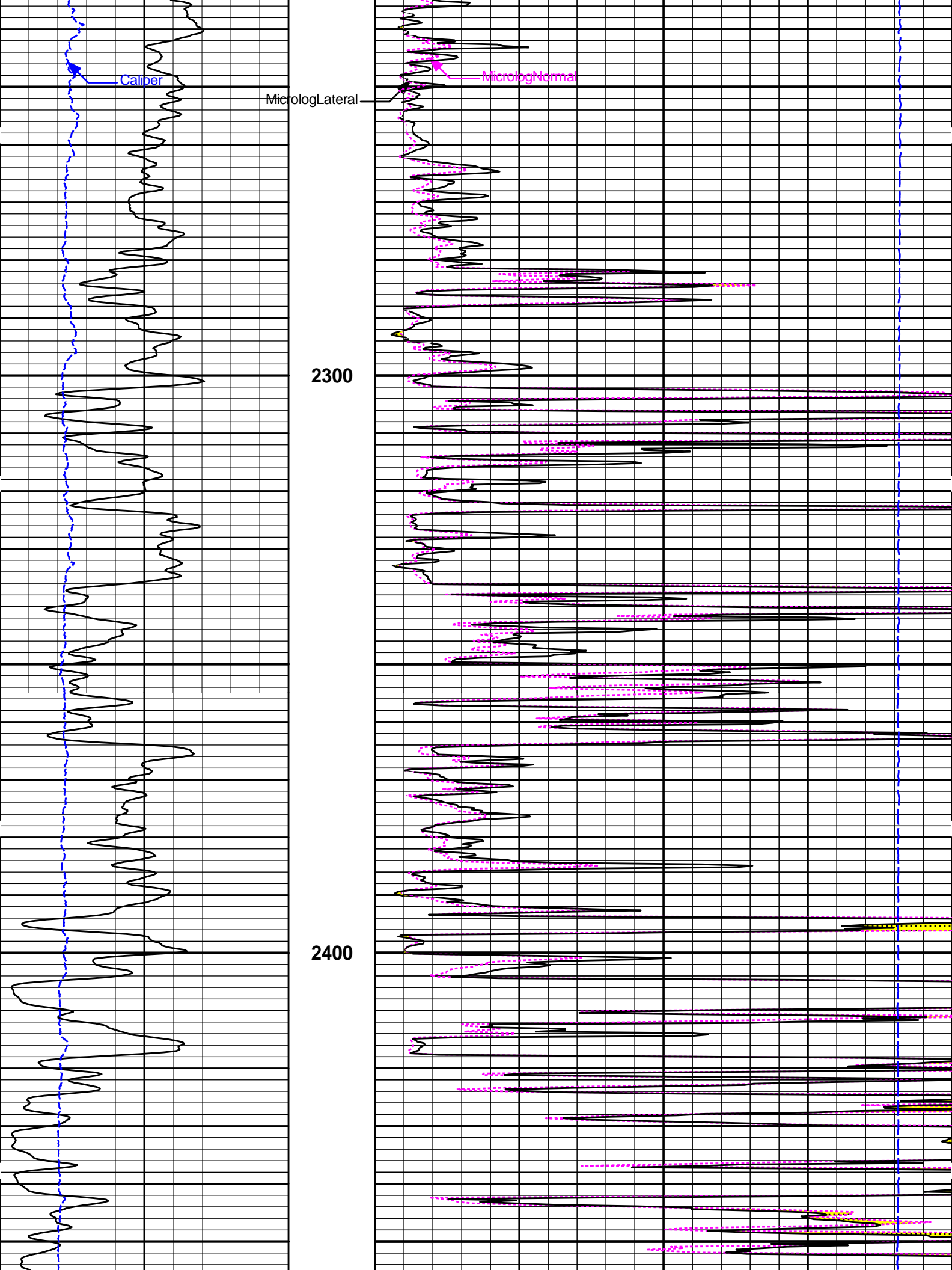
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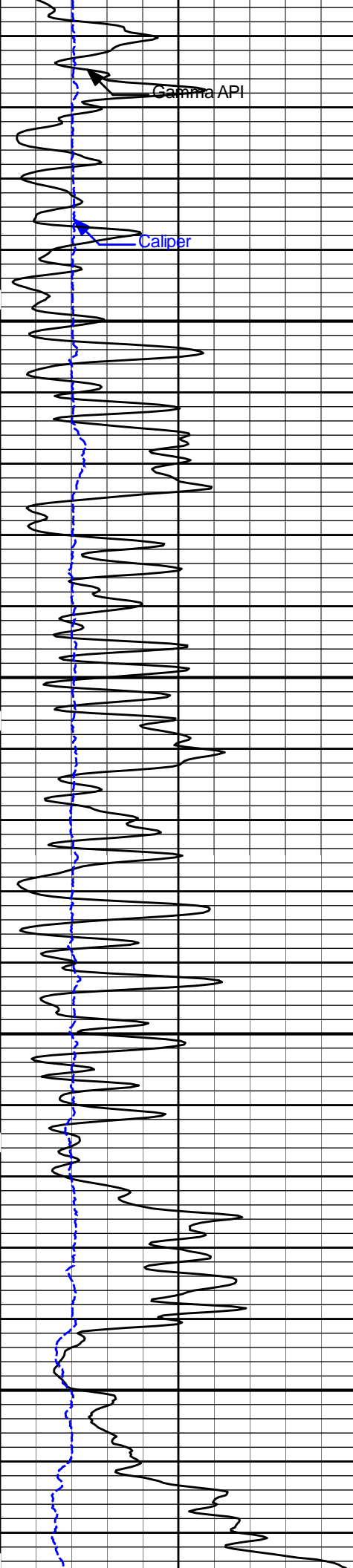
Gamma API

2100

2200

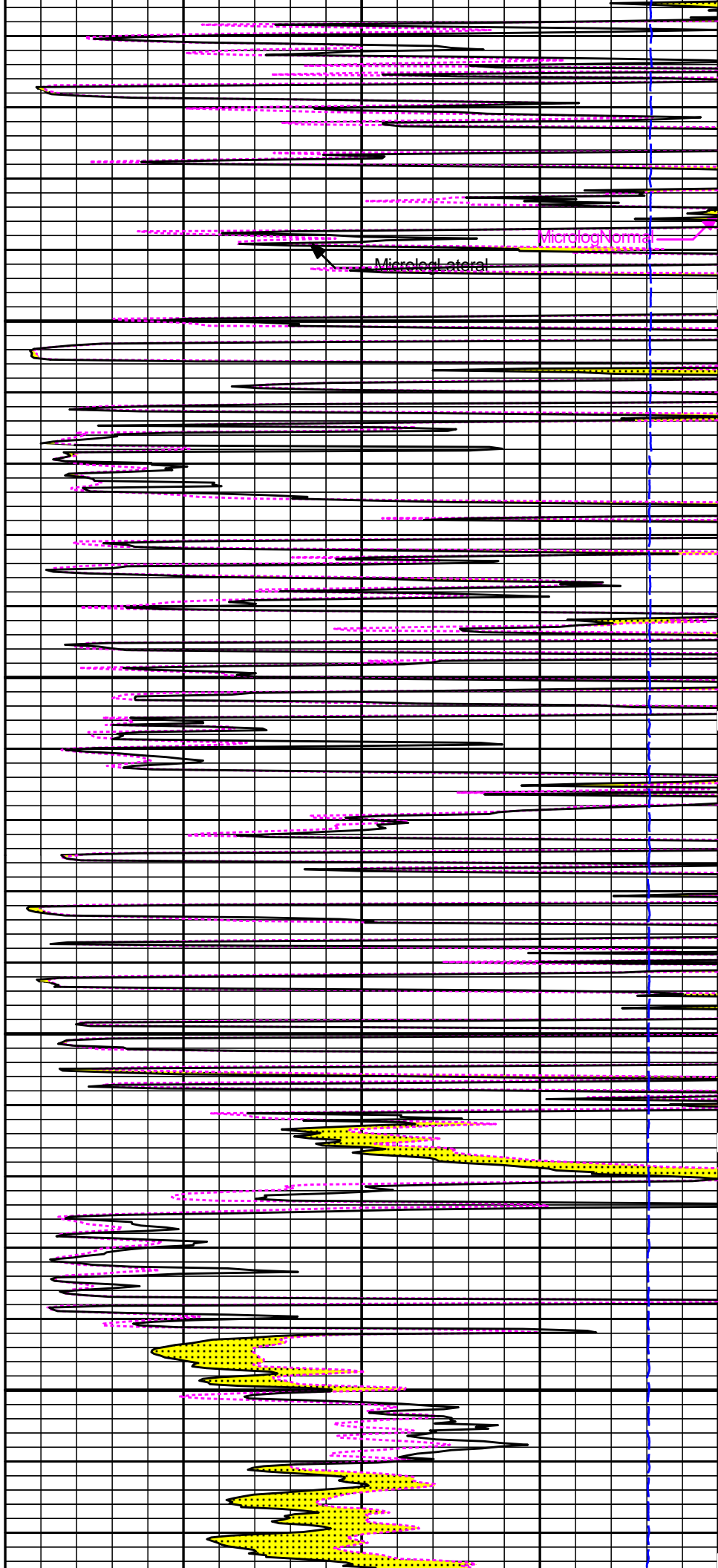






2500

2600



2700

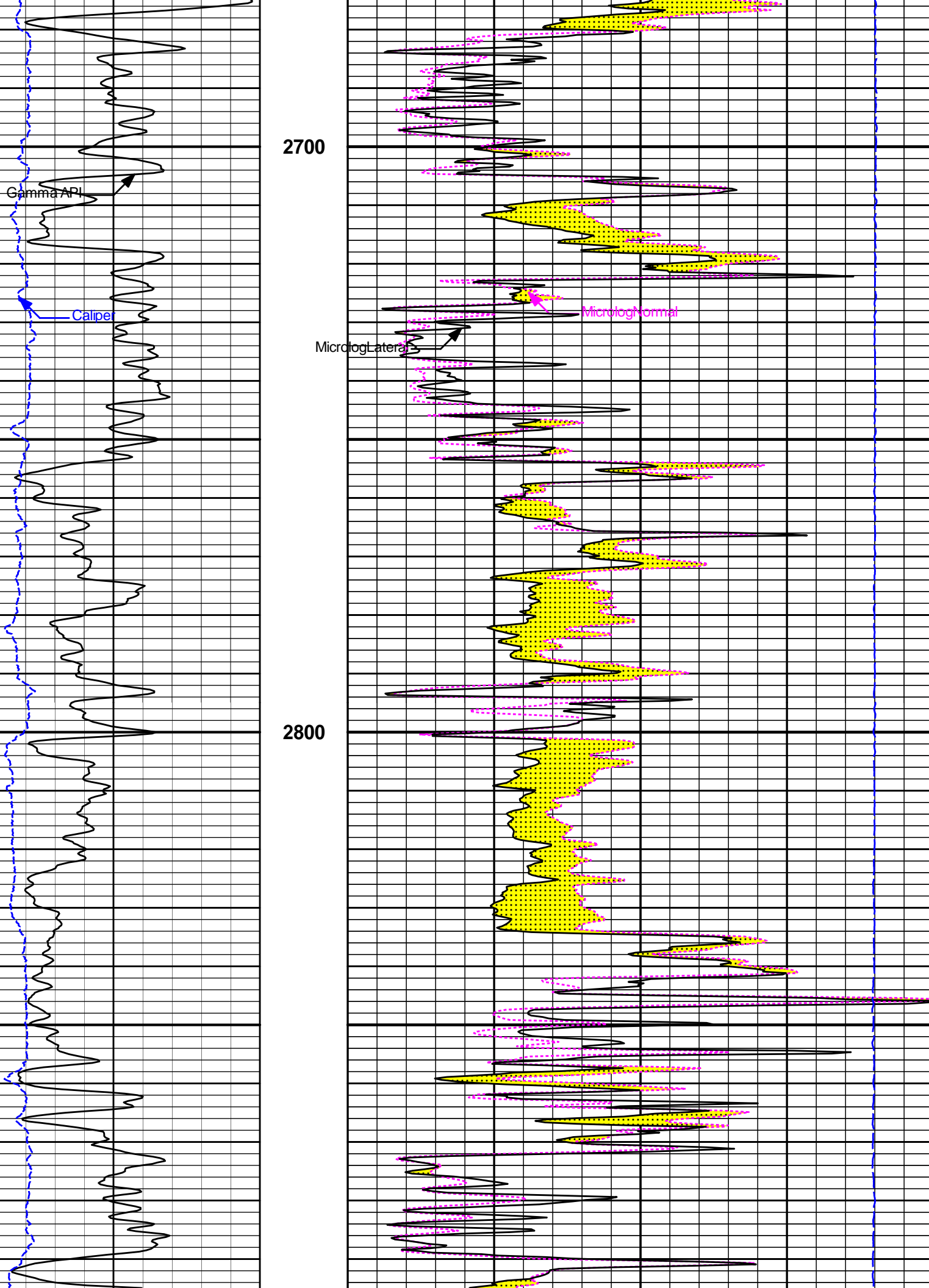
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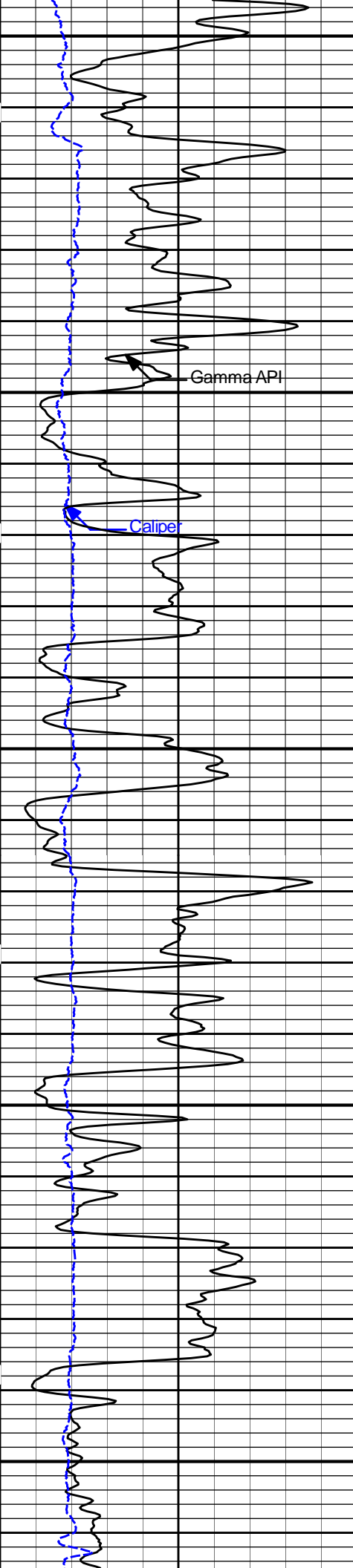
Gamma API

Caliper

MicrologLateral

MicrologNormal





2900

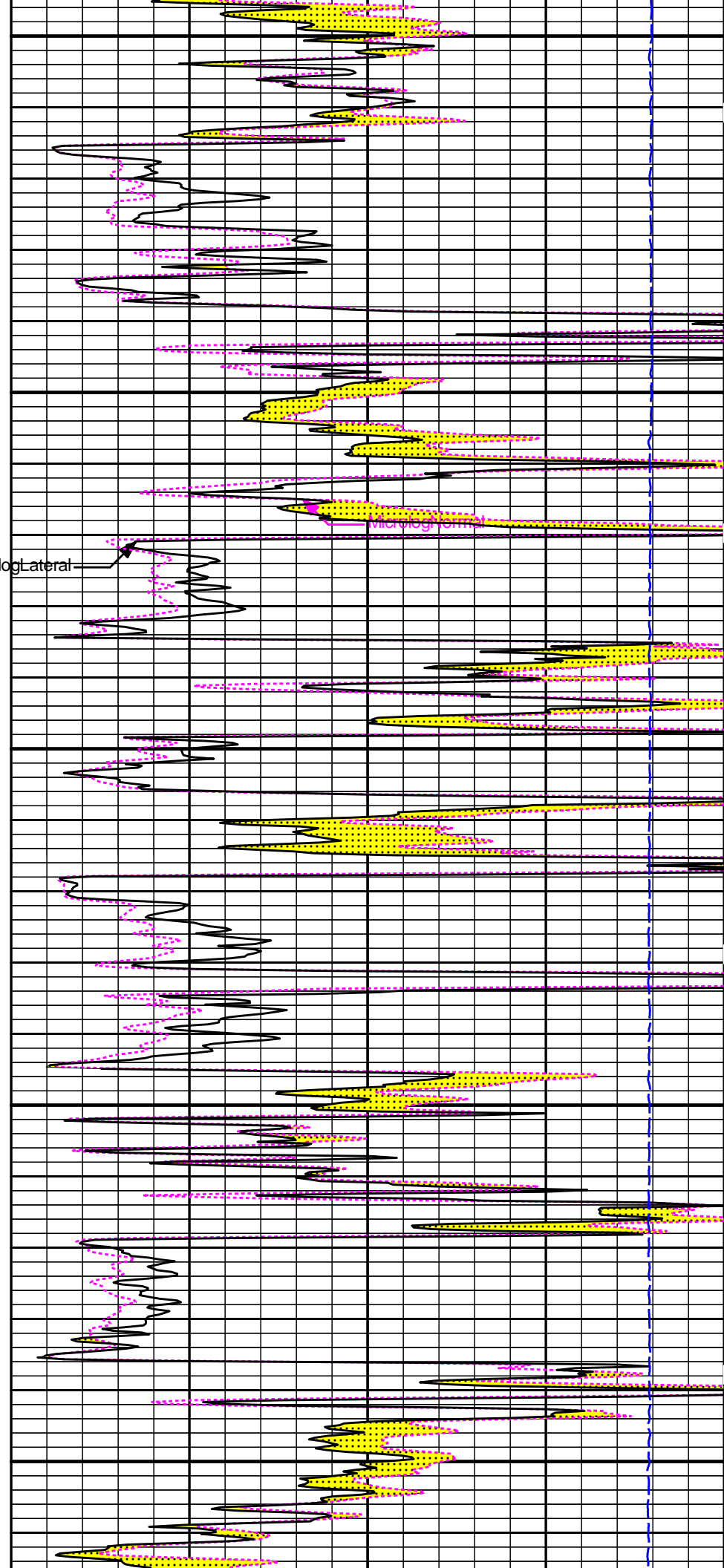
Gamma API

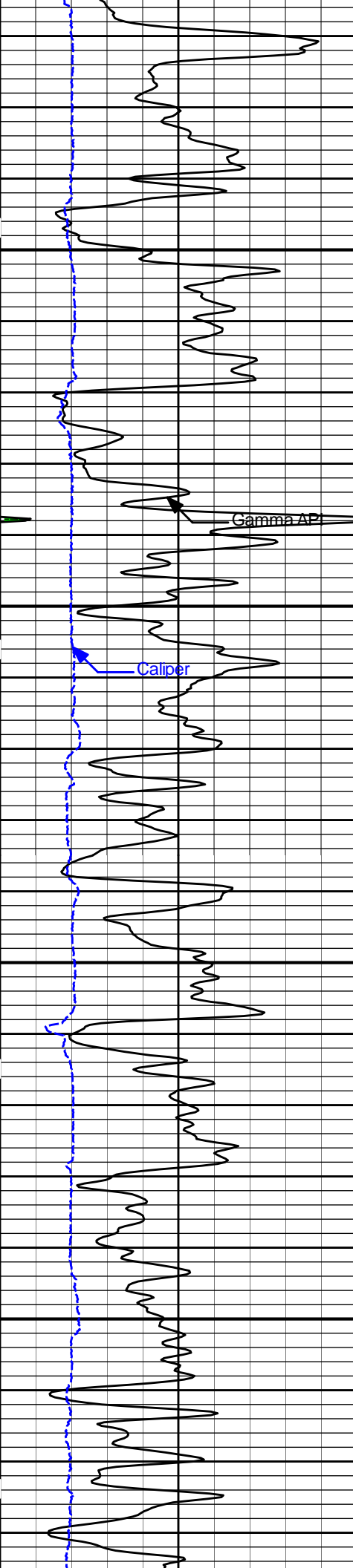
Caliper

MicrologLateral

3000

3100



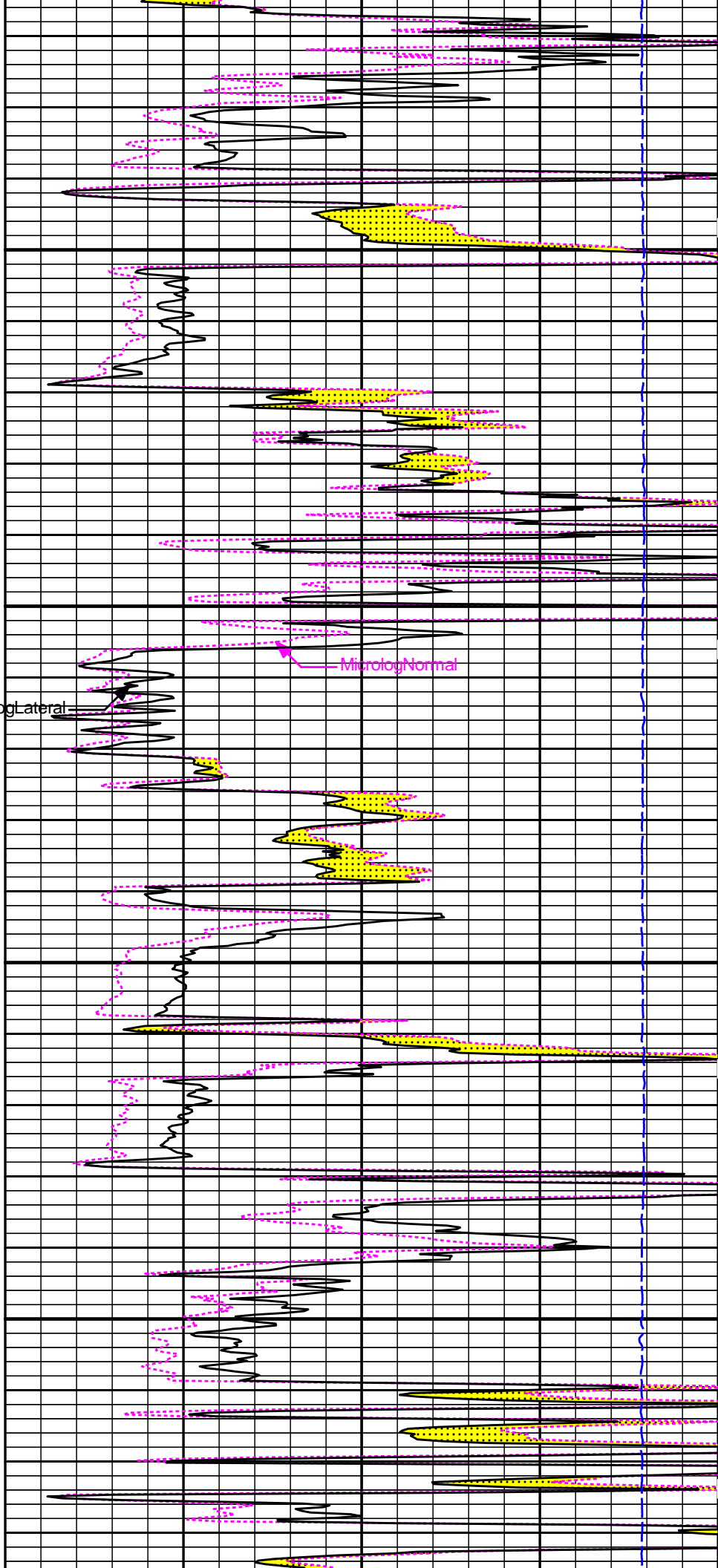


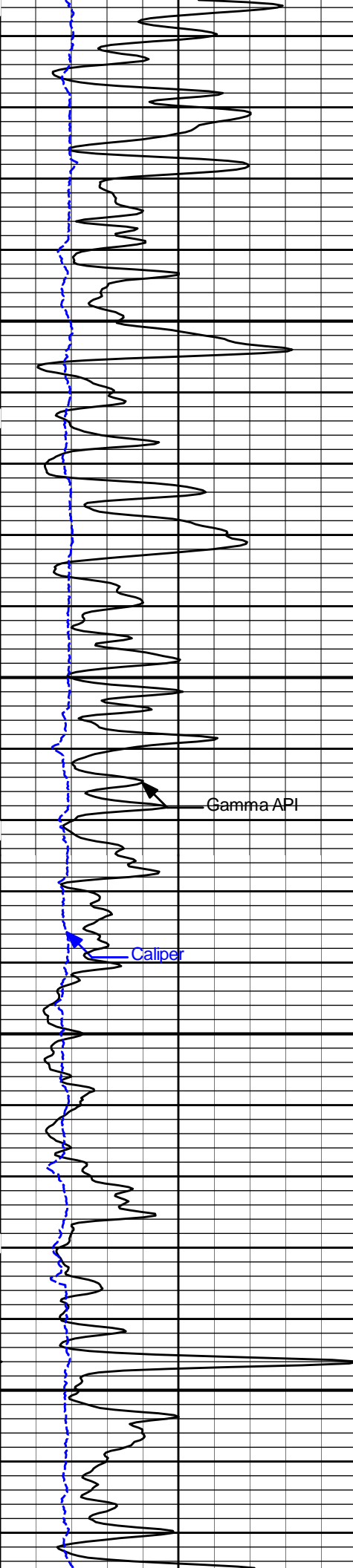
3200

3300

MicrologLateral

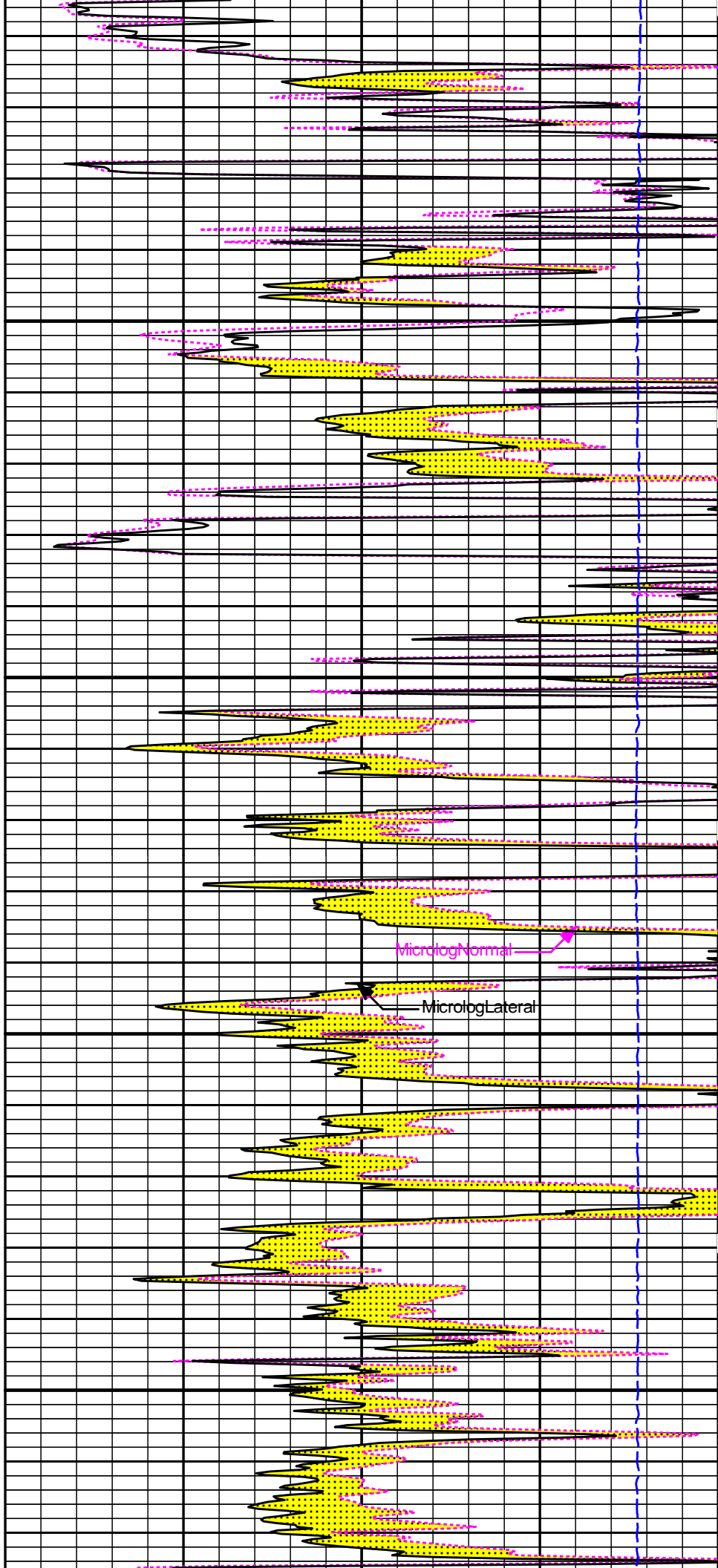
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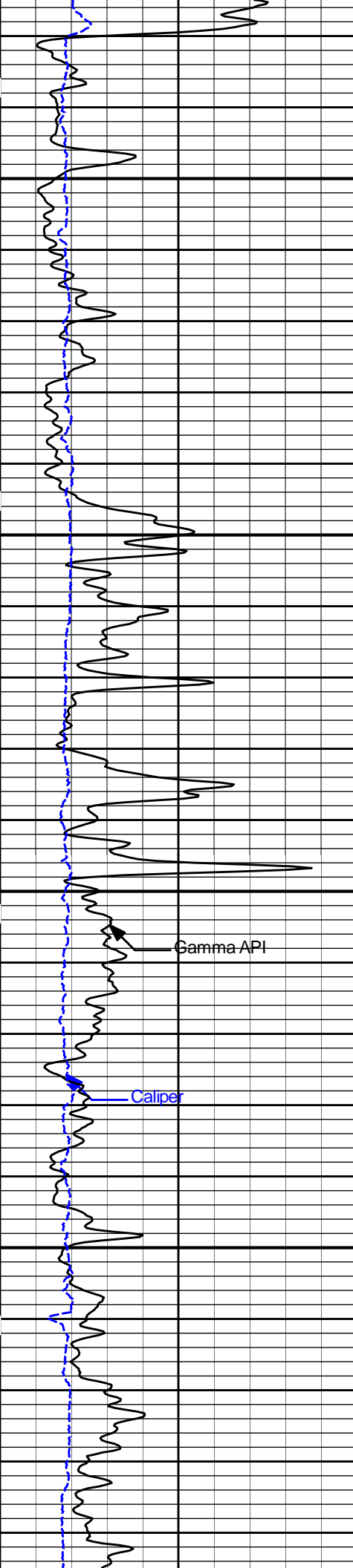




3600

3700



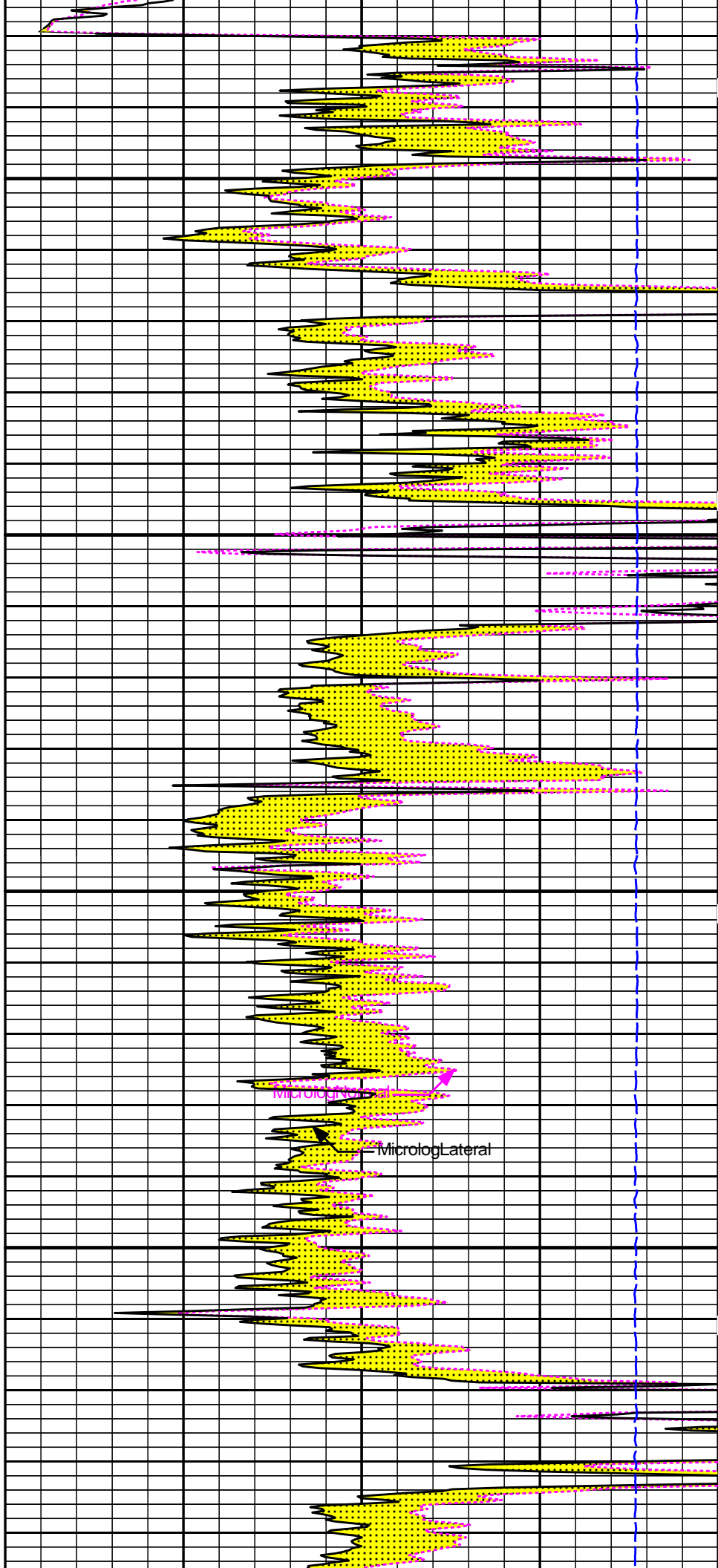


3800

3900

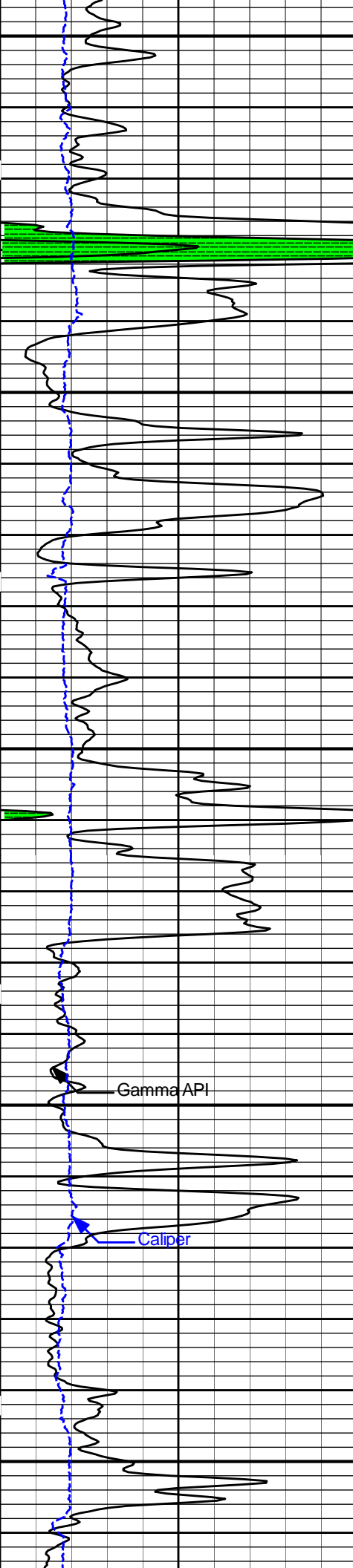
Gamma API

Caliper



Microlog

Microlog Lateral



4000

4100

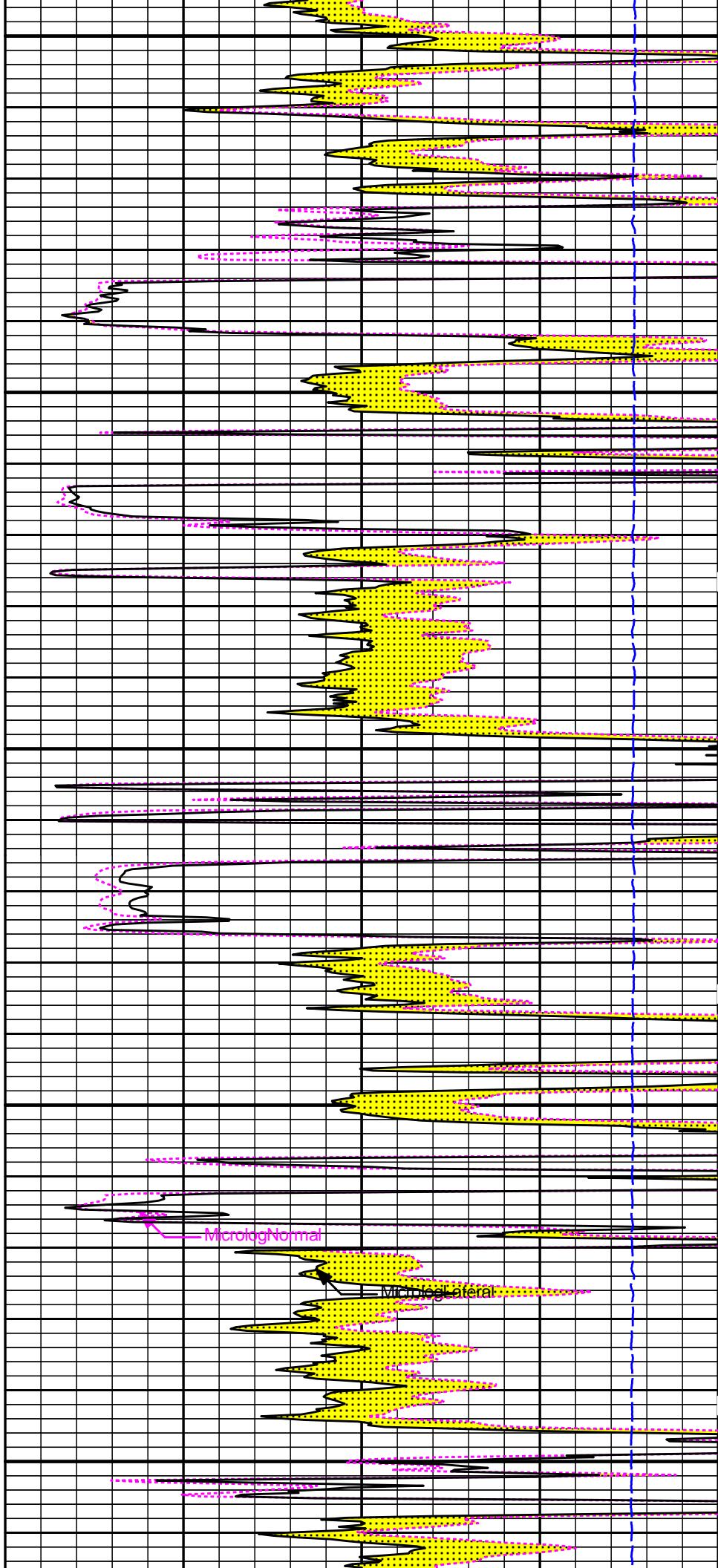
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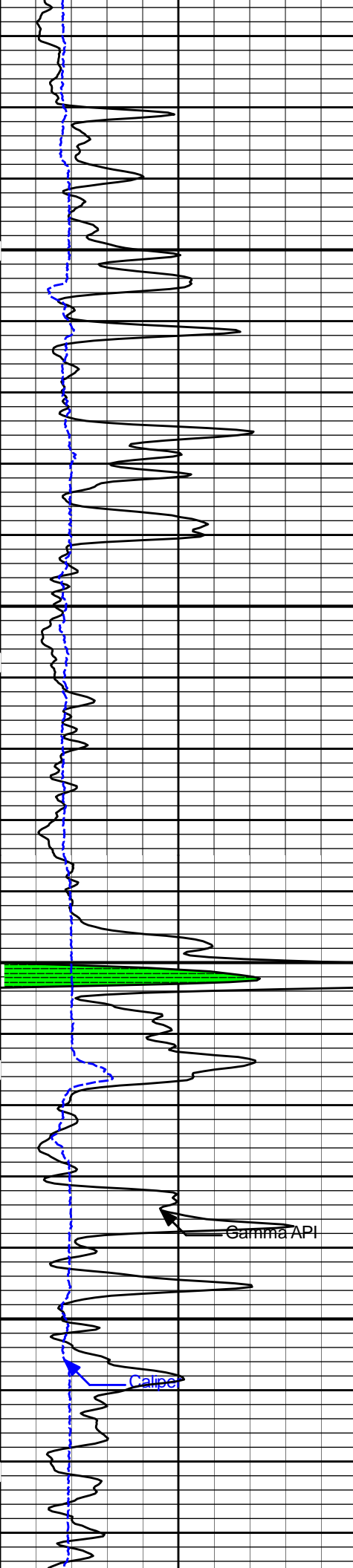
Gamma API

Caliper

MicrologNormal

MicrologLateral



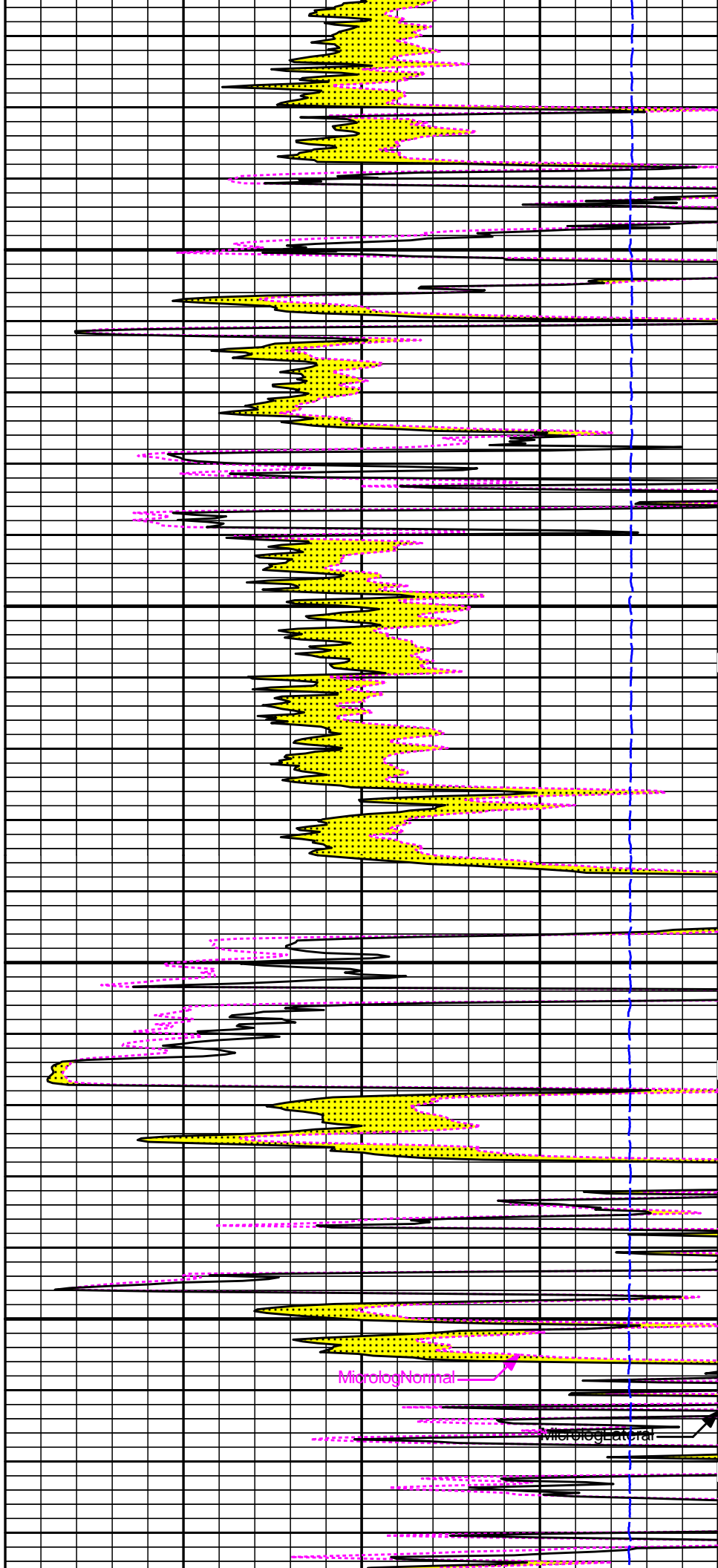


4300

4400

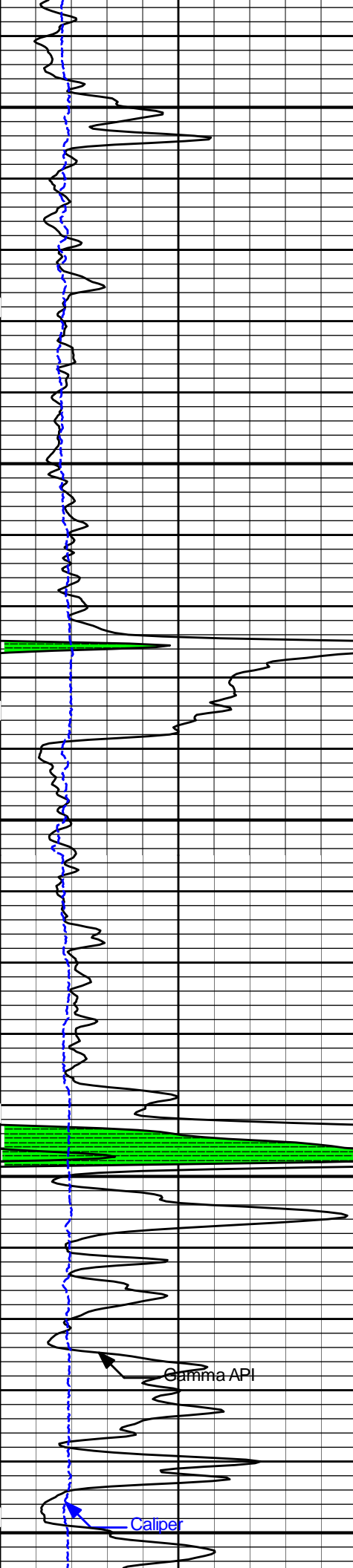
Gamma API

Caliper



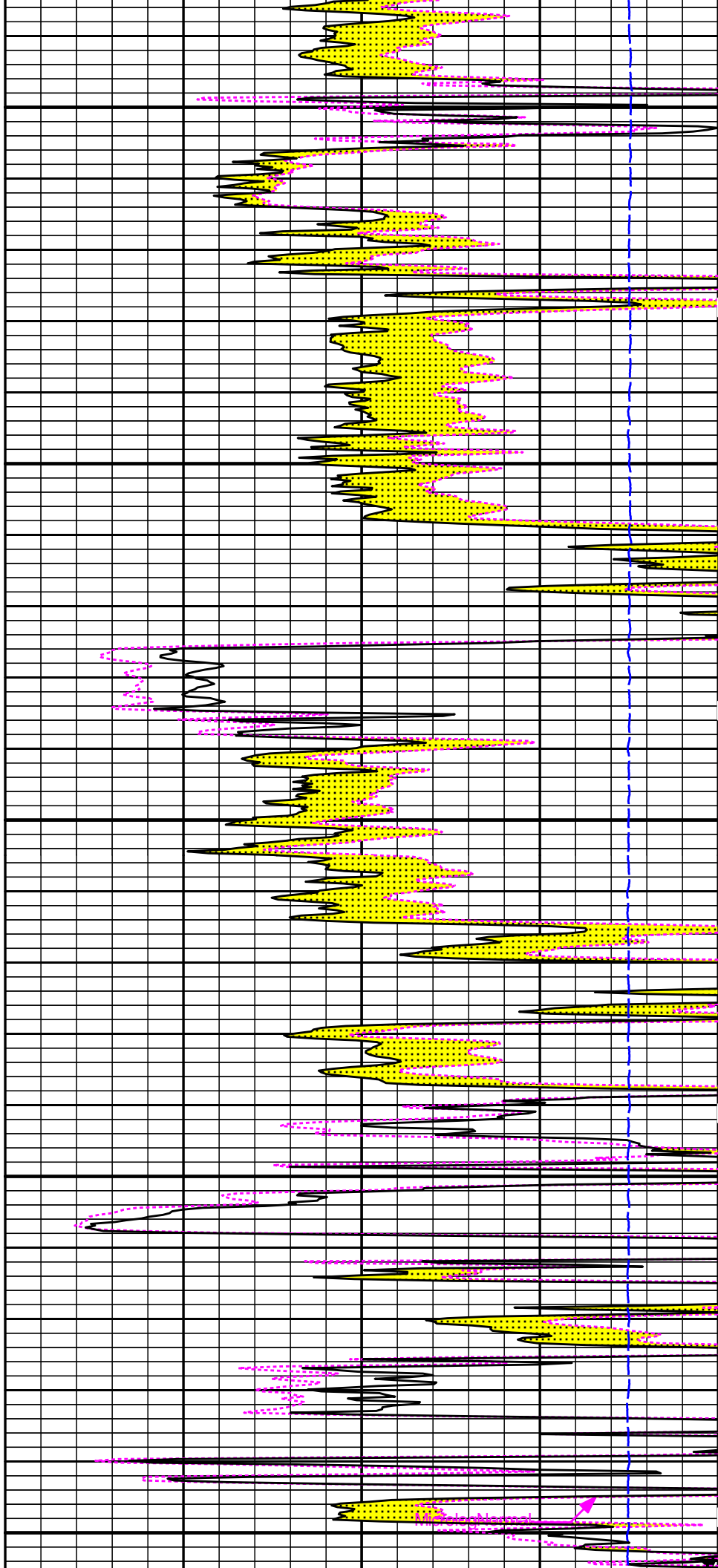
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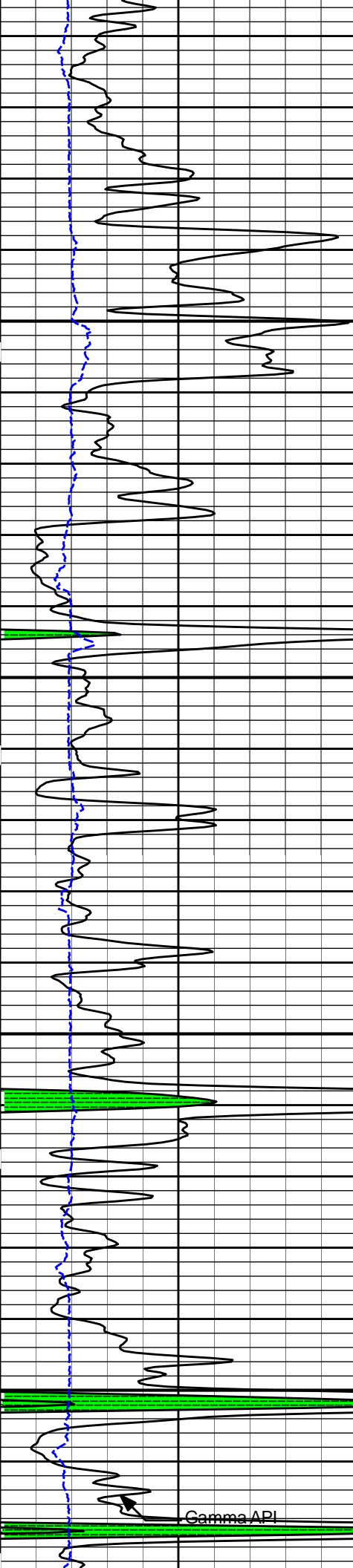
MicrologLateral



4500

4600

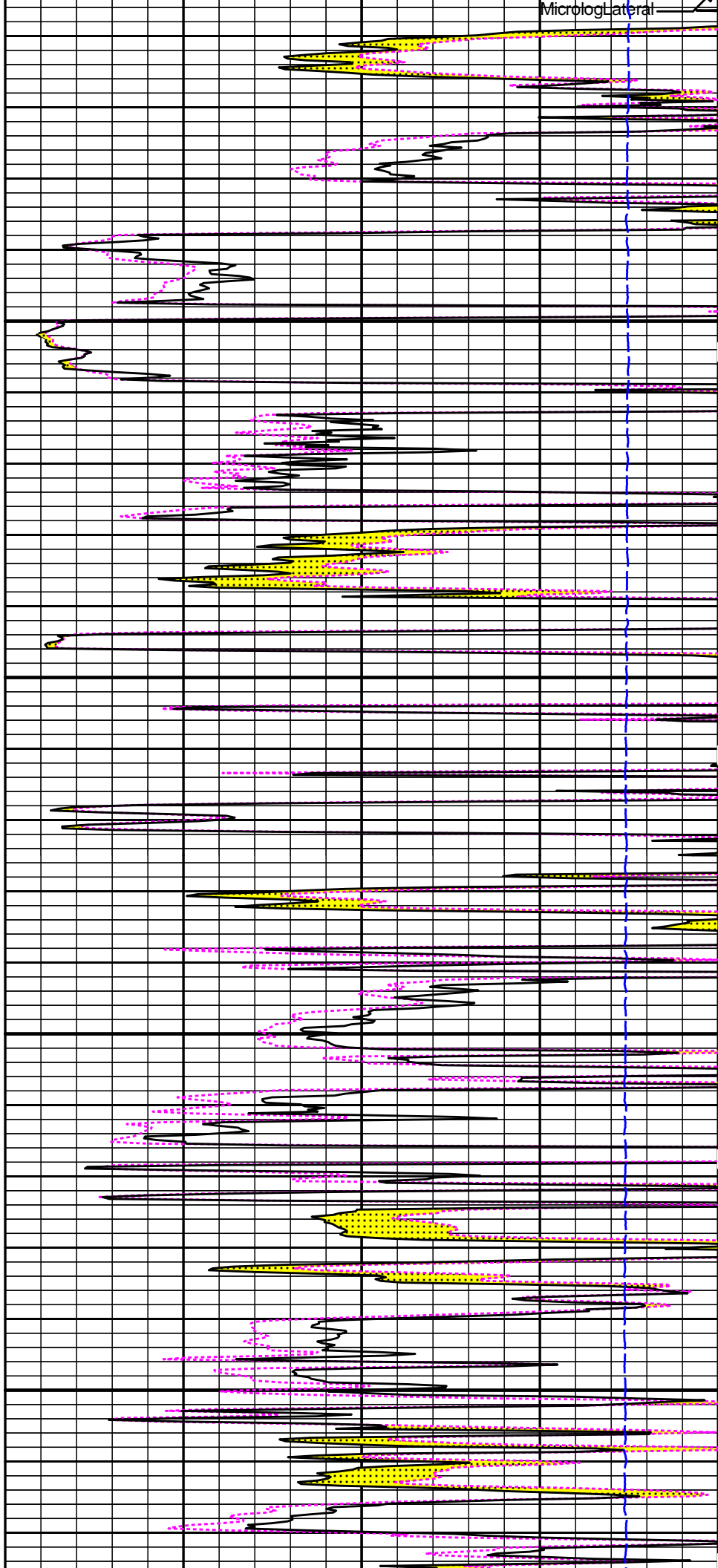




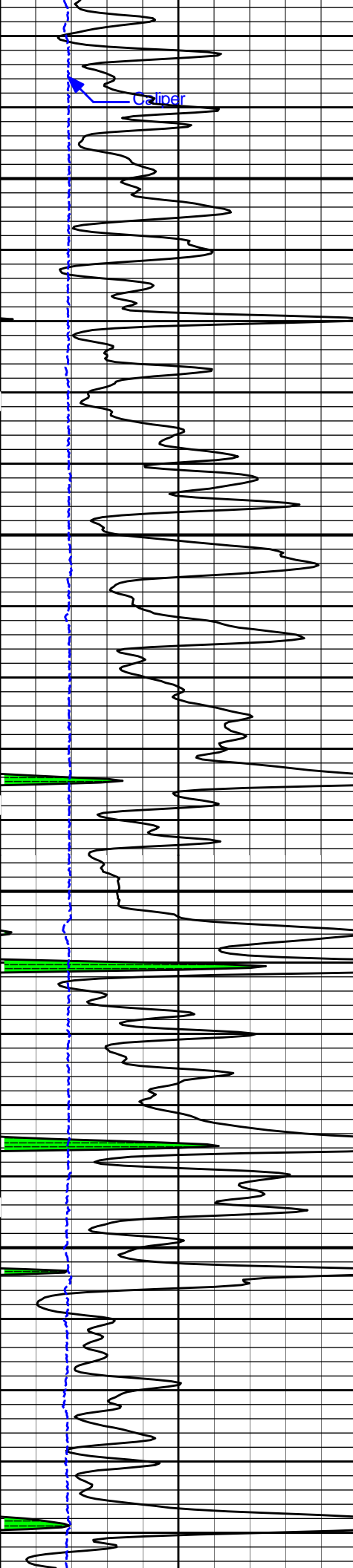
4700

4800

Gamma API

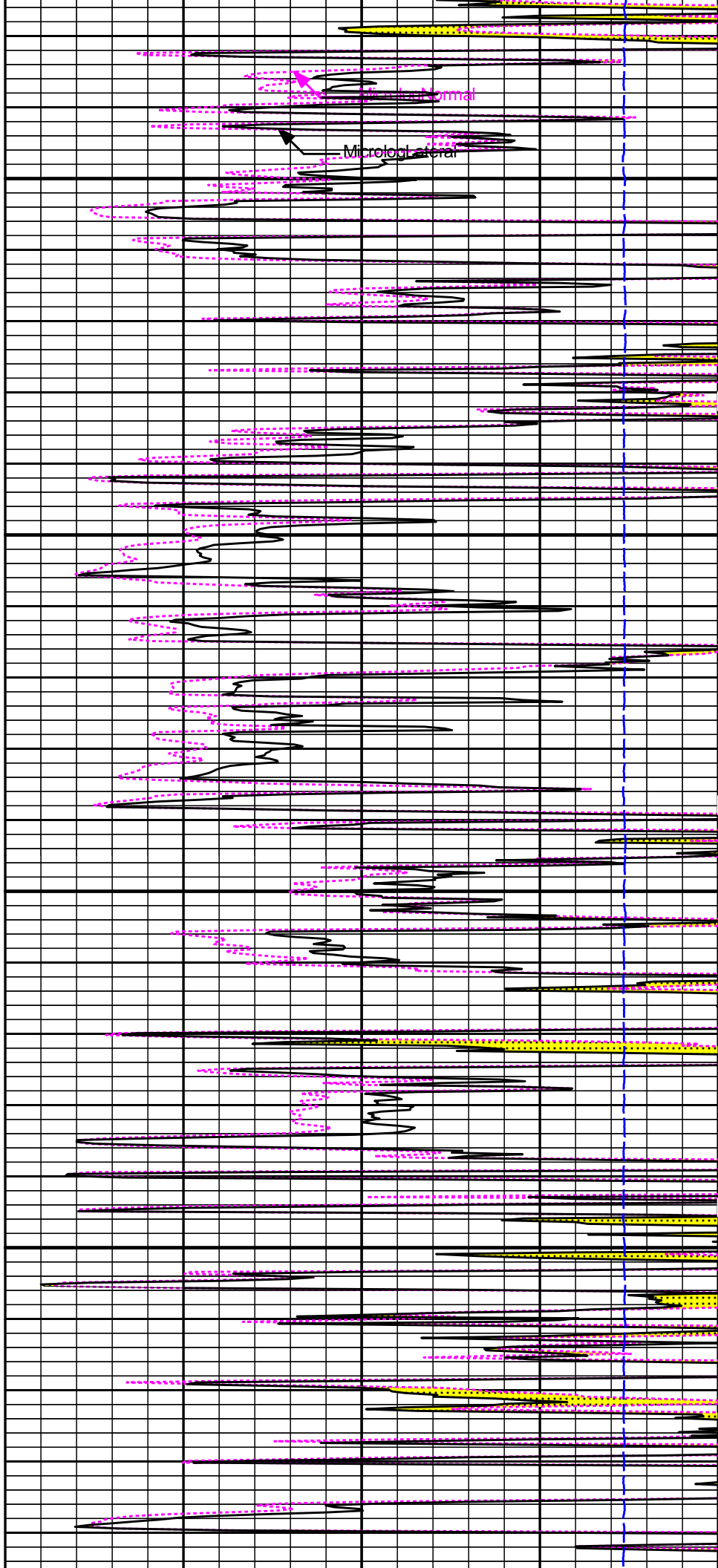


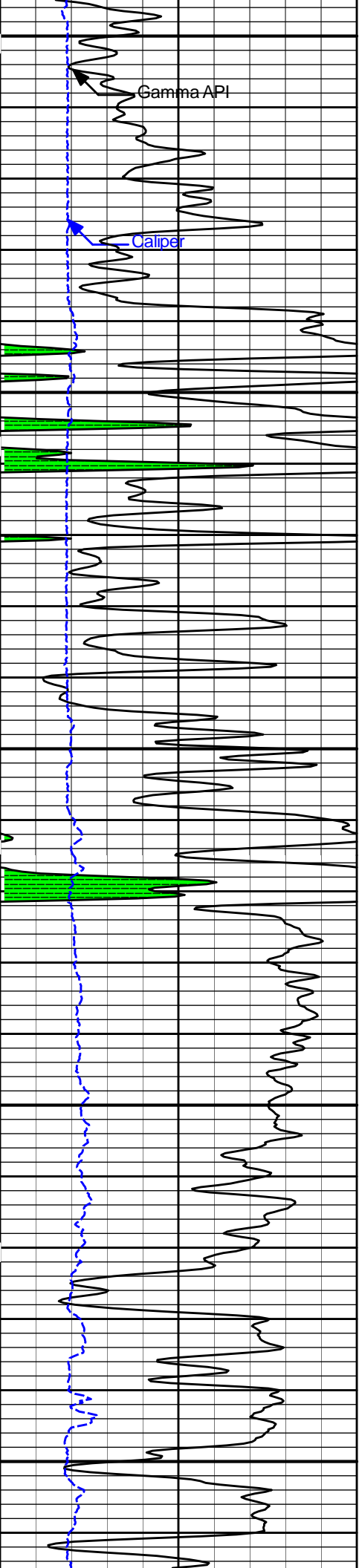
Microlog Lateral



4900

5000





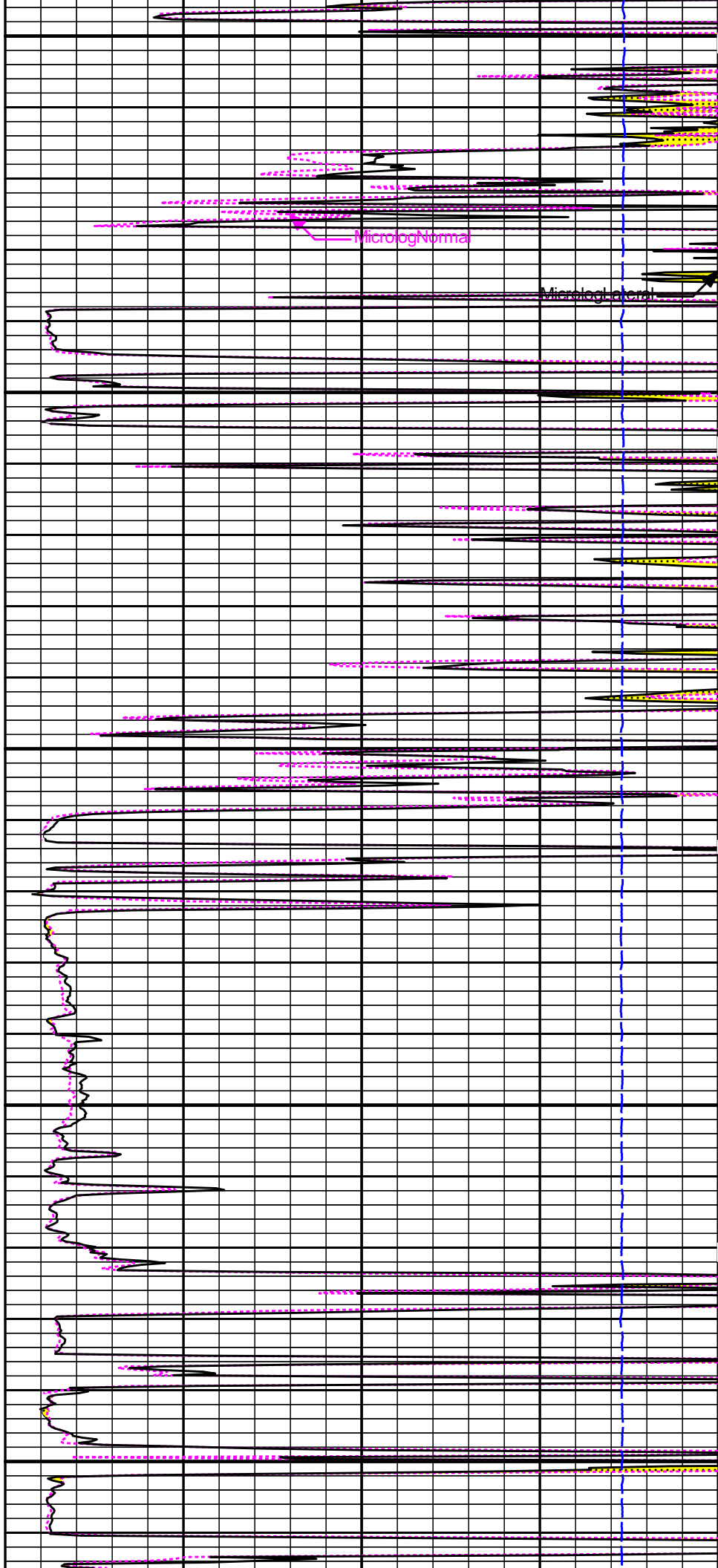
5100

Gamma API

Caliper

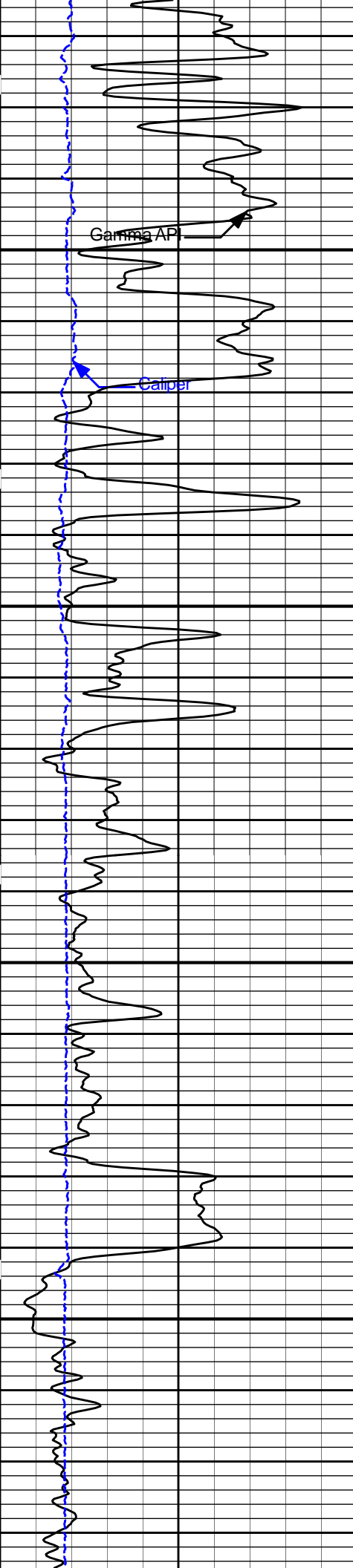
5200

5300



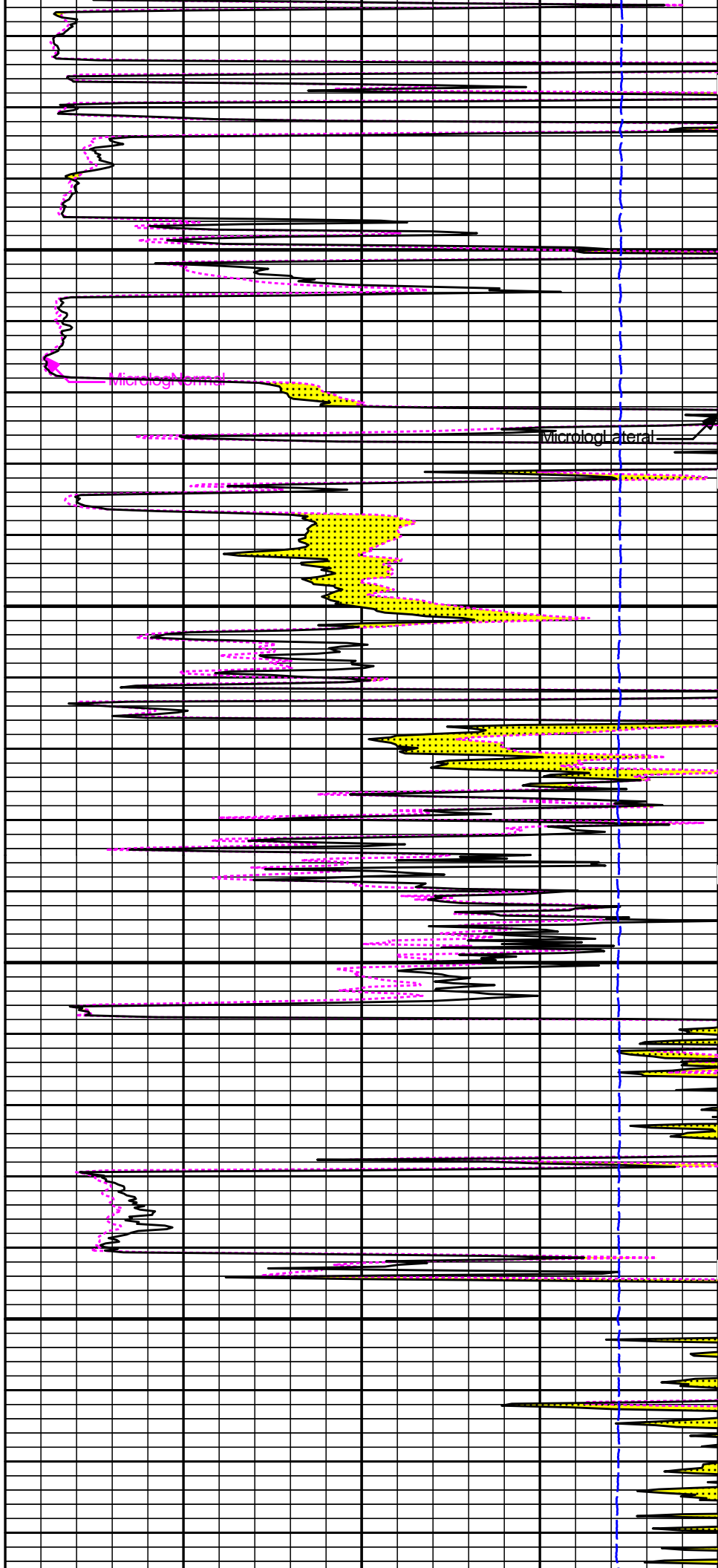
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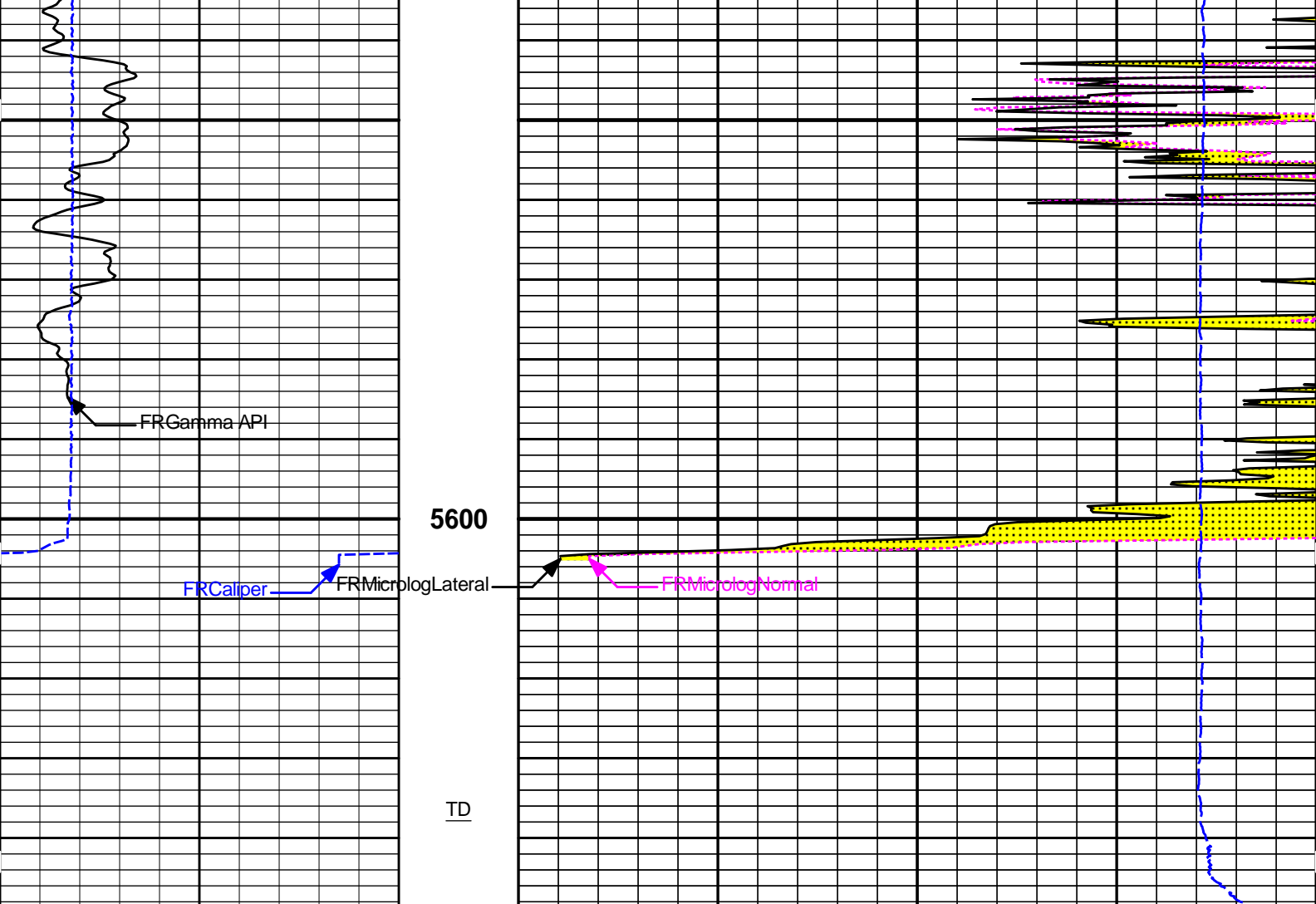
MicrologNormal



5400

5500





6	Caliper	16	1 : 240	15K	Tension	0
	inches		ft		pounds	
0	Gamma API	150		0	MicrologLateral	20
	api				ohm-metre	
				0	MicrologNormal	20
					ohm-metre	

HALLIBURTON

Plot Time: 28-Mar-22 16:56:13
 Plot Range: 1765 ft to 5649.67 ft
 Data: 03-28-MERITWell Based\DAQ-0001-004\
 Plot File: \\-LOCAL-03_01_MERIT0001 RWCH-GTET-DSNT-SDLT-BSAT-ACRT\ML\Microlog_IQ_5_main

5 INCH MAIN LOG

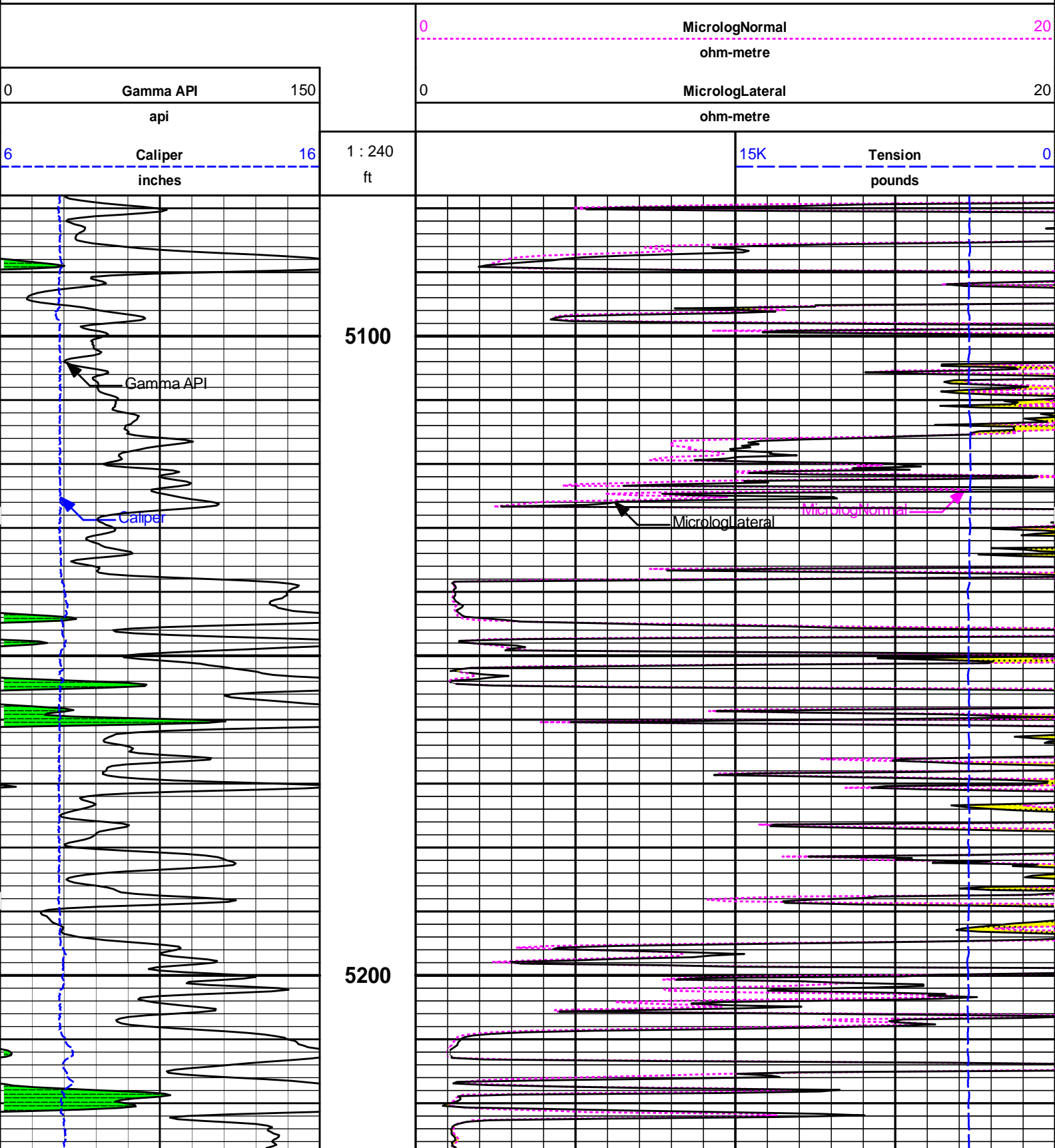
MAIN LOG 5" PER 100'

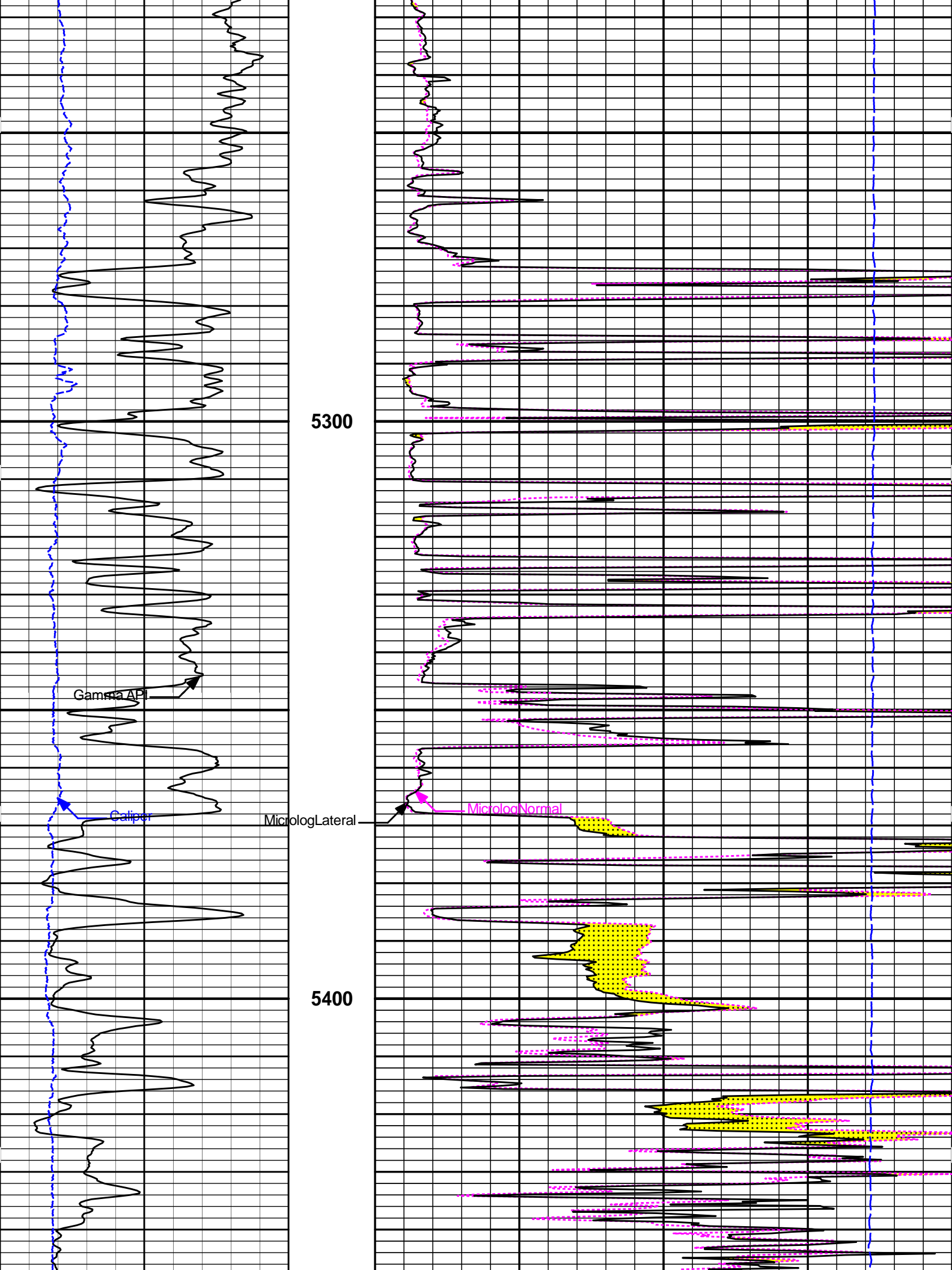
HALLIBURTON

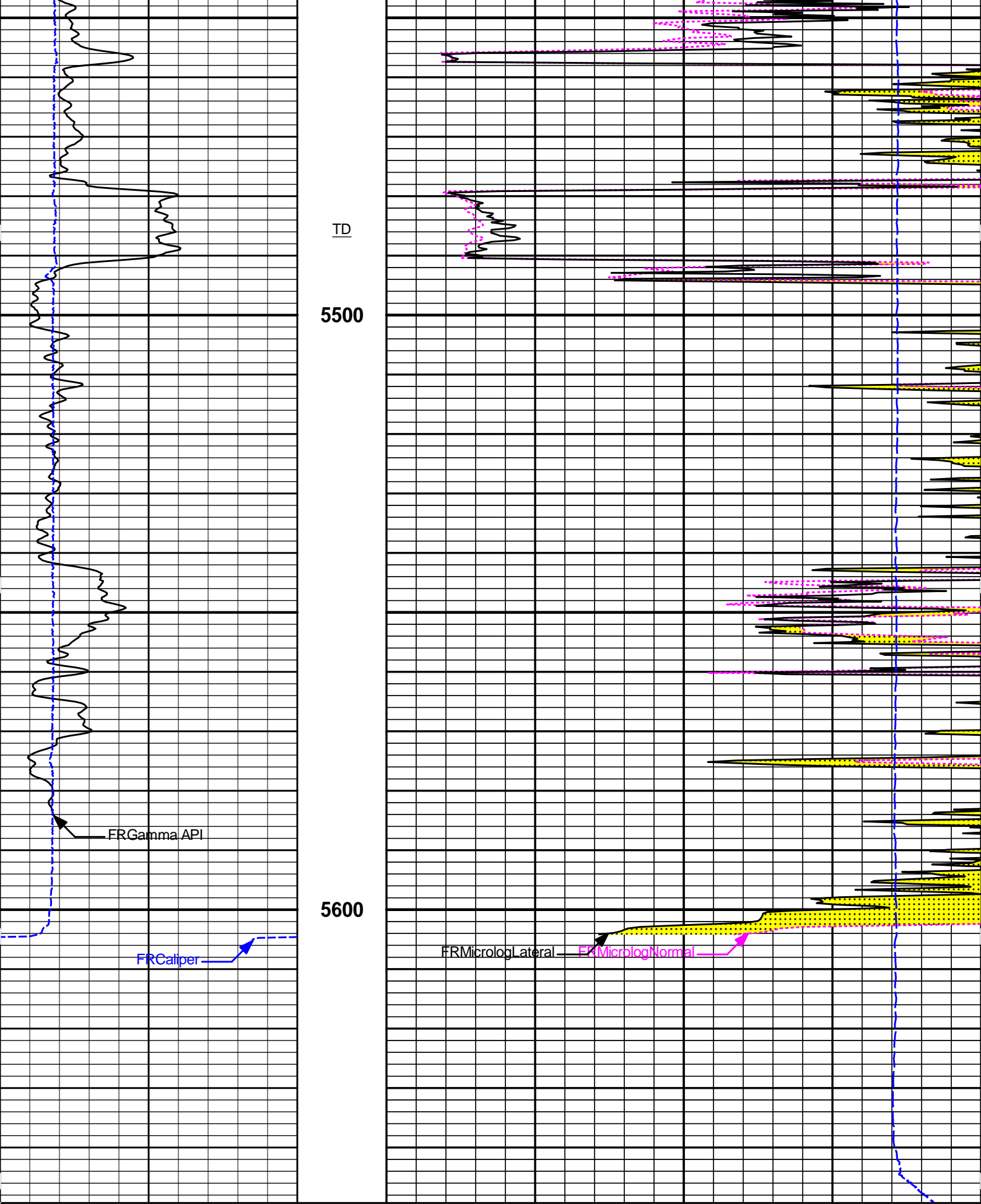
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 Plot Range: 5078 ft to 5649.33 ft
 Data: 03-28-MERITWell Based\DAQ-0001-003\
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REPEAT SECTION

REPEAT SECTION







6	Caliper	16	1 : 240	15K	Tension	0
	inches		ft		pounds	
0	Gamma API	150		0	MicrologLateral	20
	api				ohm-meters	

HALLIBURTON

Plot Time: 28-Mar-22 16:56:15

Plot Range: 5078 ft to 5649.33 ft

Data: 03-28-MERIT\Well Based\DAQ-0001-003\

Plot File: \\-LOCAL-03_01_MERIT\0001 RWCH-GTET-DSNT-SDLT-BSAT-ACRT\ML\Microlog_IQ_5_main

REPEAT SECTION**REPEAT SECTION**COMPANY **MERIT ENERGY COMPANY, LLC**WELL **WENU 604**FIELD **EUBANK NORTH**COUNTY **HASKELL**

STATE

KANSAS**HALLIBURTON****MICROLOG****HALLIBURTON****CALIBRATION REPORT****NATURAL GAMMA RAY TOOL SHOP CALIBRATION**Tool Name: **GTET - 11172469**Reference Calibration Date: **14-Dec-21 17:47:25**Engineer: **M. GALLION**Calibration Date: **07-Mar-22 15:48:15**Software Version: **WL INSITE R6.4.20 (Build 2)**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	16.9	17.2	api
Background + Calibrator	220.1	223.8	api
Calibrator	203.2	206.6	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATIONTool Name: **GTET - 11172469**Reference Calibration Date: **07-Mar-22 15:48:15**Engineer: **M. GALLION**Calibration Date: **12-Mar-22 10:39:01**Software Version: **WL INSITE R6.4.20 (Build 2)**Calibration Version: **1**

Calibrator Source S/N: TB-768

Calibrator API Reference:203.00 api

Equivalent Calibrator API Reference:206.6 api

Field Verification	Shop	Field	Units
Background	17.2	17.1	api
Background + Calibrator	223.8	221.4	api
Calibrator	206.6	204.3	api

Shop	Field	Difference	Tolerance
206.6	204.3	2.3	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name: DSNT - 11019643

Reference Calibration Date: 20-Nov-21 07:01:22

Engineer: M. GALLION

Calibration Date: 03-Mar-22 14:13:22

Software Version: WL INSITE R6.6.1 (Build 2)

Calibration Version: 1

Logging Source S/N: DSN-313

Tank Serial Number: 10585331

Reference value assigned to Tank: 54.090

Snow Block S/N: 7665

Calibration Tank Water Temperature: 68 degF

Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS

Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.99248	0.98833	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):	0.2257	0.2244	0.0013	+/- 0.0020
Calibrated Ratio:	10.2239	10.1812	0.043	+/- 0.050

VERIFIER

Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0842	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 - 11019643

Reference Calibration Date: 03-Mar-22 14:13:22

Engineer: M. GALLION

Calibration Date: 03-Mar-22 14:14:35

Software Version: WL INSITE R6.6.1 (Build 2)

Calibration Version: 1

Logging Source S/N: DSN-313

Snow Block S/N: 7665

NEUTRON FIELD-CHECK SUMMARY

	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0842	0.0844	0.0002	+/- 0.0150

PASS/FAIL SUMMARY

Block Change Check:	Passed
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Snow Block Stat Check:

Passed

Temperature Check:

Passed

DUAL SPACED NEUTRON POST CALIBRATION

Tool Name: DSNT - 11019643

Reference Calibration Date: 03-Mar-22 14:14:35

Engineer: M. GALLION

Calibration Date: 03-Mar-22 14:15:45

Software Version: WL INSITE R6.6.1 (Build 2)

Calibration Version: 1

Logging Source S/N: DSN-313

Snow Block S/N: 7665

NEUTRON POST-CHECK SUMMARY

	Field Value	Post Value	Difference	Control Limit On Change
Snow-Block Porosity (decip):	0.0844	0.0847	0.0003	+/- 0.0150

PASS/FAIL SUMMARY

Block Change Check:	Passed
Snow Block Stat Check:	Passed
Temperature Check:	Passed

DENSITY CALIPER SHOP CALIBRATION

Tool Name: SDLT - 11014296

Reference Calibration Date: 03-Mar-22 17:02:51

Engineer: M. GALLION

Calibration Date: 03-Mar-22 17:07:15

Software Version: WL INSITE R6.6.1 (Build 2)

Calibration Version: 1

Host Tool Name: DSNT - 11019643

CALIBRATION COEFFICIENTS

Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-3072.02	-2996.82	-7000.00 - -1000.00
Pad Gain	0.0003911	0.0003888	0.0002000 - 0.0006000
Arm Offset	-2272.58	-2154.18	-5000.00 - 3000.00
Arm Gain	0.0005311	0.0005170	0.0003000 - 0.0007000
Arm Power	-0.000005994	-0.000005256	-0.000010000 - 0.000010000

The ring diameter is computed from: $\text{DIAMETER} = \text{PAD EXTENSION} + \text{ARM EXTENSION} + \text{TOOL DIAMETER}$

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)	1.98	2.00	0.02	+/- 0.20
Medium Ring (in)	3.74	3.75	0.01	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.46	6.50	0.04	+/- 0.20
Medium Ring (in)	8.24	8.25	0.01	+/- 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
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SDLT CALIPER FIELD CALIBRATION

Tool Name: SDLT - 11014296

Reference Calibration Date: 03-Mar-22 17:07:15

Engineer: M. GALLION

Calibration Date: 03-Mar-22 17:08:43

Software Version: WL INSITE R6.6.1 (Build 2)

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

SPECTRAL DENSITY SHOP CALIBRATION

Tool Name: SDLT Pad - 10763919

Reference Calibration Date: 27-Nov-21 18:58:04

Engineer: M. GALLION

Calibration Date: 03-Mar-22 14:57:18

Software Version: WL INSITE R6.6.1 (Build 2)

Calibration Version: 1

Logging Source S/N: 5381GW

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	1.0635	1.0463	0.90 - 1.10
Near Dens Gain	1.0182	1.0224	0.90 - 1.10
Near Peak Gain	1.0153	1.0087	0.90 - 1.10
Near Lith Gain	0.9960	0.9946	0.90 - 1.10
Far Bar Gain	1.0131	1.0125	0.90 - 1.10
Far Dens Gain	0.9974	0.9983	0.90 - 1.10
Far Peak Gain	0.9909	0.9935	0.90 - 1.10
Far Lith Gain	0.9670	0.9594	0.90 - 1.10
Near Bar Offset	-0.4009	-0.2344	NONE
Near Dens Offset	0.0352	0.0040	NONE
Near Peak Offset	0.0554	0.1183	NONE
Near Lith Offset	0.1652	0.1750	NONE
Far Bar Offset	0.0380	0.0510	NONE
Far Dens Offset	0.1461	0.1396	NONE
Far Peak Offset	0.1605	0.1304	NONE
Far Lith Offset	0.2829	0.3123	NONE
Near Bar Background	920.62	917.41	700 - 1450
Near Dens Background	302.56	301.92	230 - 480
Near Peak Background	133.05	132.96	100 - 210
Near Lith Background	164.13	163.11	125 - 260
Far Bar Background	622.74	619.39	450 - 900
Far Dens Background	243.73	242.74	175 - 345
Far Peak Background	97.27	95.52	70 - 140
Far Lith Background	100.58	101.28	75 - 145

CALIBRATION BLOCK SUMMARY

Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.672	1.679	0.008	+/- 0.015

Density (g/cc)	2.496	2.545	0.049	+/- 0.150
Pe				
ALUMINUM				
Density (g/cc)	2.583	2.595	0.012	+/- 0.01500
Pe	3.137	3.221	0.084	+/- 0.150

TOOL SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	0.0002	+/- 0.0110	-0.0003	+/- 0.0140
Magnesium Block	-0.0002	+/- 0.0110	-0.0015	+/- 0.0140
Aluminum Block	0.0004	+/- 0.0110	-0.0005	+/- 0.0140
Resolution	8.80	6.00 - 11.50	9.20	6.00 - 11.50
Internal Verifier(B+D+P+L)	1515	1200 - 2700	1059	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 - 10763919	Reference Calibration Date: 03-Mar-22 14:57:18
Engineer: M. GALLION	Calibration Date: 03-Mar-22 15:02:13
Software Version: WL INSITE R6.6.1 (Build 2)	Calibration Version: 1

Pad Temperature: 82.3 degF

DENSITY FIELD CALIBRATION SUMMARY				
Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1515.394	1519.413	4.019	15.681
Far (B+D+P+L) cps	1058.939	1053.560	-5.379	17.272
Near Resolution	8.80	8.85	0.050	0.50
Far Resolution	9.20	9.15	-0.050	1.00

PASS/FAIL SUMMARY	
Bkg Quality Check:	Passed
Bkg Resolution Check:	Passed
Bkg Verification Check:	Passed

SPECTRAL DENSITY POST CHECK

Tool Name: SDLT Pad - 10763919	Reference Calibration Date: 03-Mar-22 15:02:13
Engineer: M. GALLION	Calibration Date: 03-Mar-22 15:05:26
Software Version: WL INSITE R6.6.1 (Build 2)	Calibration Version: 1

Pad Temperature: 82.3 degF

DENSITY POST CALIBRATION SUMMARY				
Measurement	Field	Post	Change	Control Limit +/-
Near (B+D+P+L) cps	1519.413	1511.939	-7.474	15.681

Far (B+D+P+L) cps	1053.560	1056.094	2.534	17.272
Near Resolution	8.85	8.73	-0.120	0.50
Far Resolution	9.15	9.19	0.040	1.00

PASS/FAIL SUMMARY

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

MICRO LOG SHOP CALIBRATION

Tool Name: Microlog Pad - 11014296 **Reference Calibration Date:** 21-Jan-22 15:19:35
Engineer: M. GALLION **Calibration Date:** 03-Mar-22 17:13:27
Software Version: WL INSITE R6.6.1 (Build 2) **Calibration Version:** 1
Host Tool Name: DSNT - 11019643

CALIBRATION COEFFICIENT SUMMARY					
Measurement	Micro Log Normal		Micro Log Lateral		Units
	Measured	Calibrated	Measured	Calibrated	
Tool Zero	0.03	0.05	0.02	0.02	ohmm
Calibration Point #1	-0.00	0.02	0.02	0.02	ohmm
Calibration Point #2	19.90	20.00	20.05	20.00	ohmm
Internal Reference	19.83	19.93	20.04	19.99	ohmm

Measurement	Micro Log Normal Tool Value		Micro Log Lateral Tool Value		Units
	Tool Zero		3.19		
Calibration Point #1		-4.69		1.39	V
Calibration Point #2		5311.30		6943.48	V
Internal Reference		5292.64		6940.73	V

MICRO LOG FIELD CHECK

Tool Name: Microlog Pad - 11014296 **Reference Calibration Date:** 03-Mar-22 17:13:27
Engineer: M. GALLION **Calibration Date:** 03-Mar-22 17:13:58
Software Version: WL INSITE R6.6.1 (Build 2) **Calibration Version:** 1

Measurement	Micro Log Normal		Micro Log Lateral		Units
	Shop	Field	Shop	Field	
Tool Zero	0.05	0.03	0.02	0.02	ohmm
Internal Reference	19.93	19.93	19.99	19.99	ohmm

Summary				
Signal	Shop	Field	Difference	Tolerance
Microlog Normal	19.93	19.93	0.00	+/- 0.80
Microlog Lateral	19.99	19.99	0.00	+/- 0.80

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION

Tool Name: ACRt Sonde - 10947895 **Reference Calibration Date:** 29-Nov-21 18:24:28
Engineer: J. CABANZO **Calibration Date:** 10-Mar-22 12:20:29
Software Version: WL INSITE R6.6.1 (Build 2) **Calibration Version:** 1
Host Tool Name: ACRt Instrument - 10937852

TYPICAL GAIN RANGE									
Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper

A1 (80")	0.95	1.0126	1.05	0.95	1.0107	1.05	0.95	1.0014	1.05
A2 (50")	0.95	1.0093	1.05	0.95	1.0069	1.05	0.95	0.9979	1.05
A3 (29")	0.95	1.0038	1.05	0.95	1.0018	1.05	0.95	0.9932	1.05
A4 (17")	0.95	1.0082	1.05	0.95	1.0027	1.05	0.95	0.9974	1.05
A5 (10")	N/A	N/A	N/A	0.95	0.9967	1.05	0.95	0.9917	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9813	1.05	0.95	0.9768	1.05

SONDE OFFSET

Subarray	R12KHz	R36KHz	R72KHz
	(mmho/m)	(mmho/m)	(mmho/m)
A1 (80")	0.091	-3.205	-5.370
A2 (50")	-1.993	-5.050	-7.471
A3 (29")	-15.480	-5.635	-6.034
A4 (17")	-103.132	-32.683	-26.370
A5 (10")	N/A	-88.492	-43.615
A6 (6")	N/A	294.356	148.105

TRANSMITTER CURRENT GAIN

Signal	Lower	R	Upper
12K	0.6	0.87	1.3
36K	1.0	1.88	2.0
72K	1.0	1.12	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

CALIBRATION SUMMARY

Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11172469						
Gamma Ray Calibrator	206.6	204.3	-----	2.3	+/- 9.00	api
DSNT-11019643						
Snow-Block Porosity	0.0842	0.0844	0.0847	-0.0003	+/- 0.0150	decp
SDLT-11014296						
Pad Extension	3.75	3.75	-----	0.00	+/-0.10	in
Ring Diameter	8.25	8.25	-----	0.00	+/-0.15	in
SDLT Pad-10763919						
Near(B+D+P+L)	1515.394	1519.413	1511.939	7.474	+/-15.681	cps
Far(B+D+P+L)	1058.939	1053.560	1056.094	-2.534	+/-17.272	cps
Microlog Pad-11014296						
MicroLog Normal	19.93	19.93	-----	0.00	+/-0.80	ohmm
MicroLog Lateral	19.99	19.99	-----	0.00	+/-0.80	ohmm
ACRt Sonde-10947895						
Mud Cell	1.00	-----	-----	0	-----	ohm-m

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Date: 28-Mar-22 15:44:26

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	2.000	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	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	

DSNT	BHSM	Borehole Size Source Tool	SDLT		
SDLT	CLOK	Process Caliper 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		
Microlog Pad	MLOK	Process MicroLog Outputs?	Yes		
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

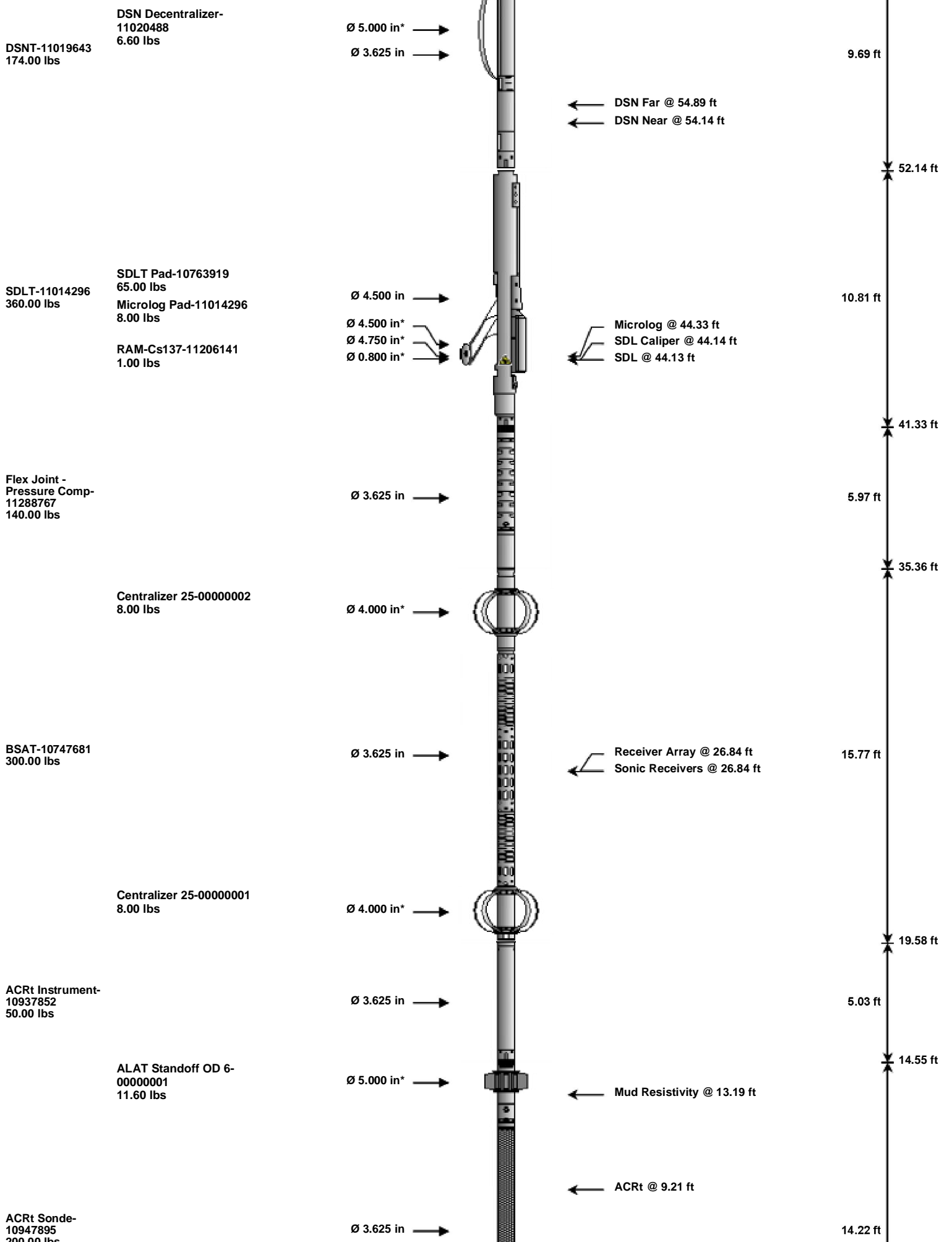
Data: 03-28-MERIT0001 RWCH-GTET-DSNT-SDLT-BSAT-ACRT004 28-Mar-22 15:07 Up @5650.3f

Date: 28-Mar-22 15:45:32

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
RWCH-12027542 135.00 lbs	Weak Point 12000 lbs- 11111111 0.01 lbs	Ø 2.310 in		Fishing Neck @ 75.72 ft	76.60 ft	
		Ø 3.625 in		Load Cell @ 72.91 ft BH Temperature @ 72.35 ft	6.25 ft	
		Ø 0.010 in*		Z-Accelerometer @ 69.90 ft	70.35 ft	
		Ø 3.625 in		GammaRay @ 64.29 ft	8.52 ft	
GTET-11172469 165.00 lbs						



500.00 lbs

SP Ring-10947895
0.00 lbs

Ø 3.625 in* →

← SP @ 1.61 ft

Bull Nose-11111111
5.00 lbs

Ø 2.750 in →



0.33 ft
0.33 ft
0.00 ft

Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max. Log. Speed (fpm)
RWCH	Releasable Wireline Cable Head	12027542	135.00	6.25	70.35	300.00
WP12K	Weak Point 12000 lbs	11111111	0.01	0.01	* 71.15	300.00
GTET	Gamma Telemetry Tool	11172469	165.00	8.52	61.83	60.00
DSNT	Dual Spaced Neutron	11019643	174.00	9.69	52.14	60.00
DCNT	DSN Decentralizer	11020488	6.60	5.13	* 55.47	300.00
SDLT	Spectral Density Tool	11014296	360.00	10.81	41.33	60.00
SDLP	Density Insite Pad	10763919	65.00	2.55	* 43.54	60.00
Cs137	Logging Source, SDLT-I, 1.78 Ci - Cs137	11206141	1.00	0.80	* 43.77	300.00
MICP	Microlog Pad	11014296	8.00	1.00	* 43.83	60.00
FLEX	Flex Joint - Pressure Compensated	11288767	140.00	5.97	35.36	300.00
BSAT	Borehole Sonic Array Tool	10747681	300.00	15.77	19.58	60.00
OBCEN	Centralizer - 25 in. Overbody	00000001	8.00	2.08	* 19.87	300.00
OBCEN	Centralizer - 25 in. Overbody	00000002	8.00	2.08	* 32.48	300.00
ACRt	Array Compensated True Resistivity Instrument Section	10937852	50.00	5.03	14.55	120.00
ACRt	Array Compensated True Resistivity Sonde Section	10947895	200.00	14.22	0.33	120.00
SP	SP Ring	10947895	0.00	0.25	* 1.61	300.00
ALATS	Array Laterolog Tool OD 5 Standoff	00000001	11.60	1.00	* 13.21	60.00
BLNS	Bull Nose	11111111	5.00	0.33	0.00	300.00
Total			1,637.21	76.60		

* Not included in Total Length and Length Accumulation.

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COMPANY	MERIT ENERGY COMPANY, LLC		
WELL	WENU 604		
FIELD	EUBANK NORTH		
COUNTY	HASKELL	STATE	KANSAS
HALLIBURTON		MICROLOG	