

HALLIBURTON

MICROLOG

COMPANY				RAYDON EXPLORATION			
WELL				ROCK 1-27			
FIELD/BLOCK				KISMET			
COUNTY				SEWARD			
STATE				KANSAS			
Permanent Datum				GL			
Log measured from				KB			
Drilling measured from				KB			
Date				02-Apr-18			
Run No.				1			
Depth - Driller				5860.0 ft			
Depth - Logger				5856.0 ft			
Bottom - Logged Interval				5848			
Top - Logged Interval				4000			
Casing - Driller				8.625 in			
Casing - Logger				1642.0 ft			
Bit Size				7.875 in			
Type Fluid in Hole				Water Based Mud			
Density				8.90 g/cc			
PH				10.00 pH			
Source of Sample				FLOWLINE			
Rm @ Meas. Temperature				1.07 ohmm			
Rmf @ Meas. Temperature				0.87 ohmm			
Rmc @ Meas. Temperature				1.32 ohmm			
Source Rmf				MEAS			
Rm @ BHT				0.69 ohmm			
Time Since Circulation				15:00 hr			
Time on Bottom				02-Apr-18 19:03			
Max. Rec. Temperature				133.00 degF			
Equipment				WHITLOCK			
Recorded By				ED GRIEVES			

Service Ticket No.: 904731126

API No.: 15-175-22259-00-00

PGM Version: WL INSITE R5.6.3 (Build 4)

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.
Rmf @ Meas. Temp.	@	@					
Rmc @ Meas. Temp.	@	@					
Source Rmf	Rmc						
Rm @ BHT	@	@					
Rmf @ BHT	@	@					
Rmc @ BHT	@	@					
EQUIPMENT DATA							
GAMMA		ACOUSTIC		DENSITY		NEUTRON	
Run No.		Run No.		Run No.		Run No.	
Serial No.		Serial No.		Serial No.		Serial No.	
Model No.		Model No.		Model No.		Model No.	
Diameter		No. of Cent.		Diameter		Diameter	
Detector Model No.		Spacing		Log Type		Log Type	
Type				Source Type		Source Type	
Length		LSA [Y/N]		Serial No.		Serial No.	
Distance to Source		FWDA [Y/N]		Strength		Strength	
LOGGING DATA							
GENERAL		GAMMA		ACOUSTIC		DENSITY	
Run	Depth	Speed	Scale	Scale		Matrix	NEUTRON
No.	From	To	L	R	L	R	Scale
		ft/min					L
							R
							Matrix

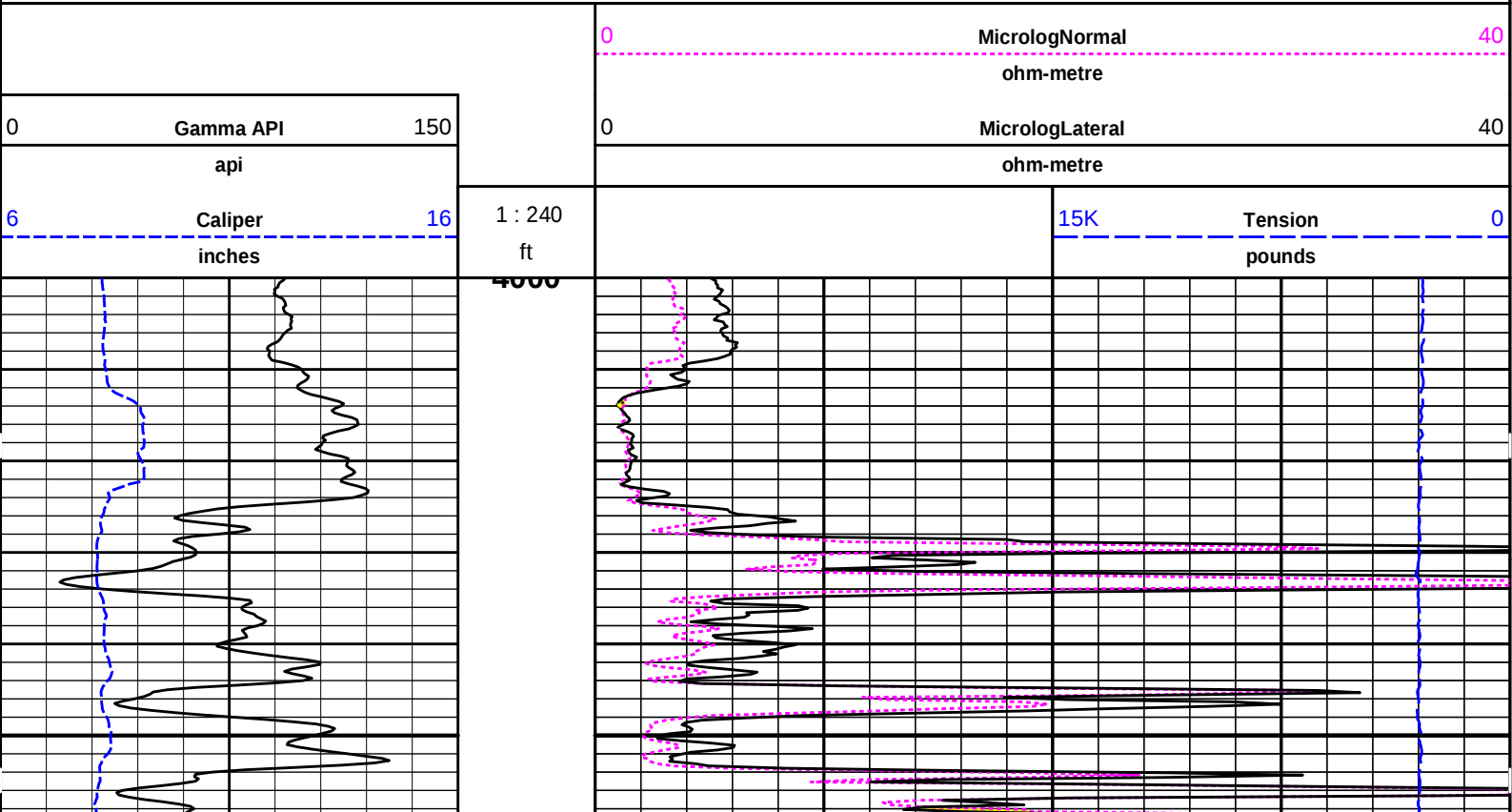
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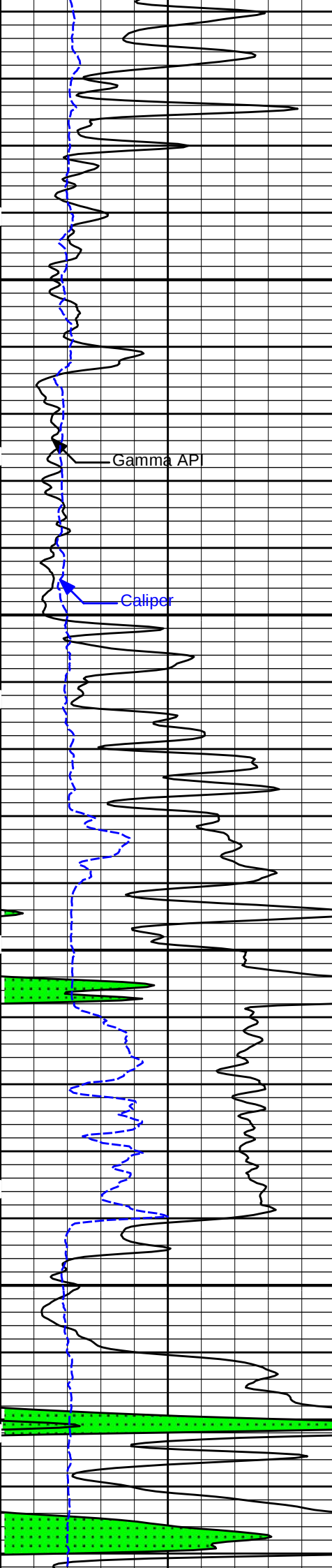
HALLIBURTON

Plot Time: 02-Apr-18 21:13:57
Plot Range: 4000 ft to 5862.92 ft
Data: RAYDON_ROCK\Well Based\DAQ-0001-004\
Plot File: \\LOCAL-1\RAYDON_ROCK\0001 GTET-DSNT-SDLT-BSAT-ACRT\MICLOG\Microlog_IQ_5_main

5 INCH MAIN LOG

MAIN LOG 5" PER 100'



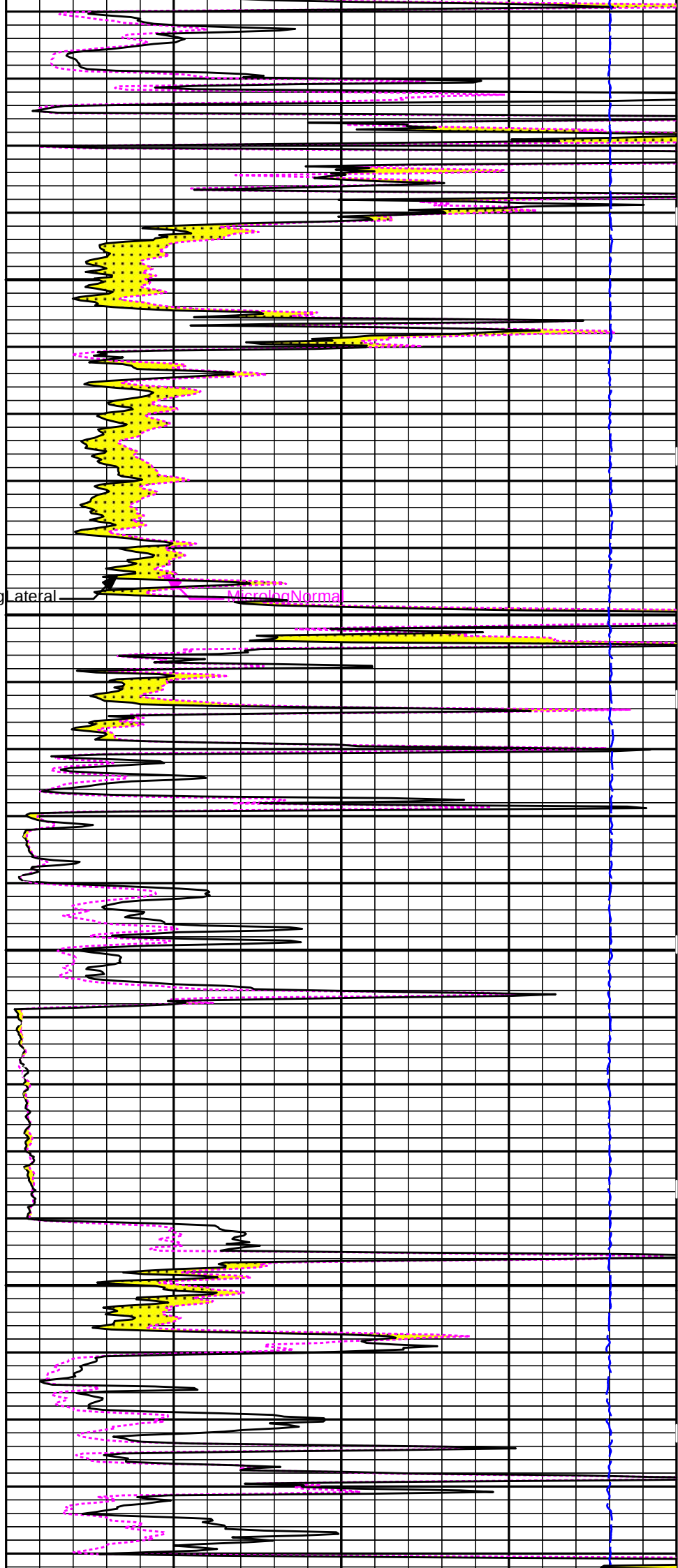


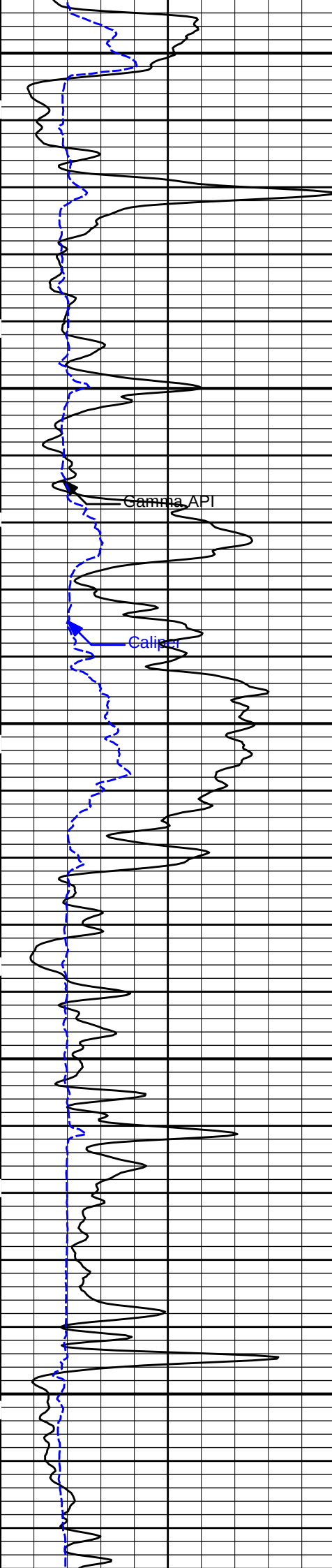
4100

Microlog_{lateral}

4200

Microlog_{normal}

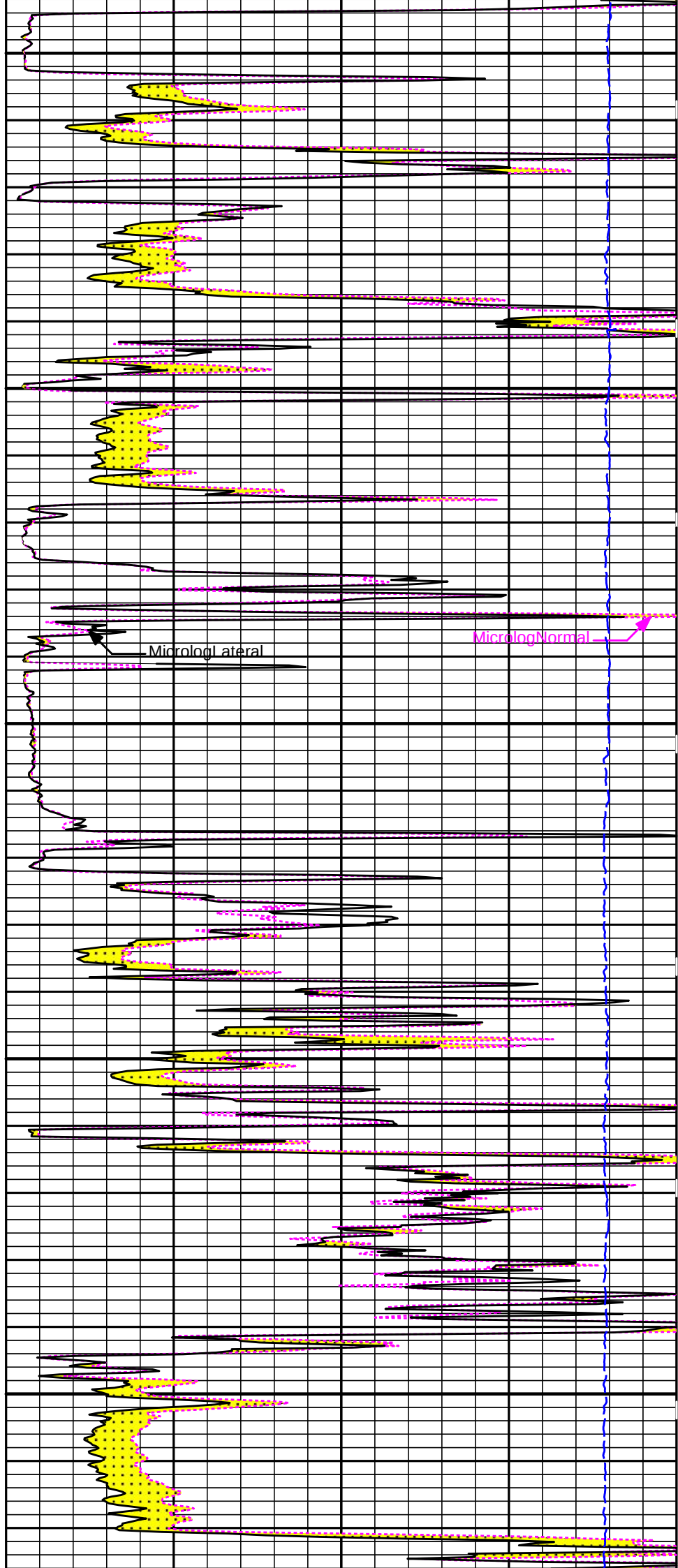


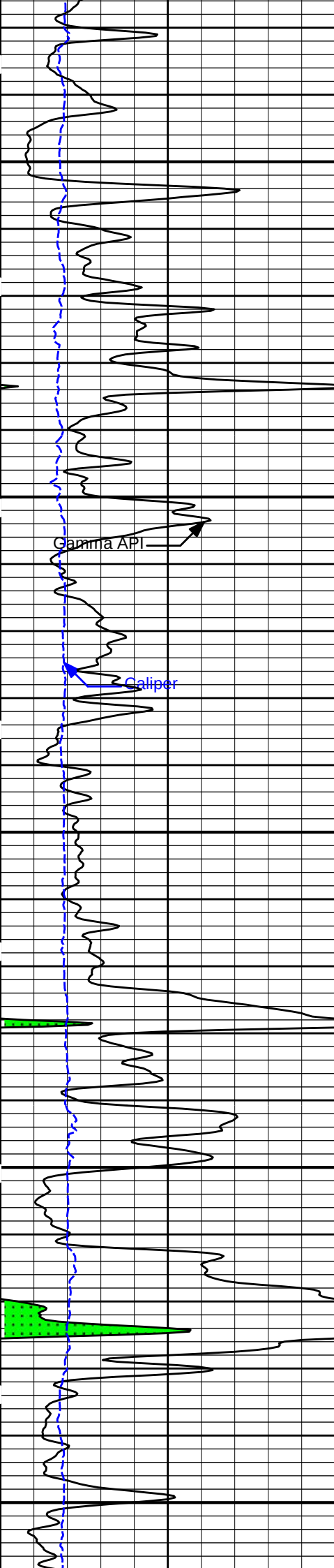


4300

4400

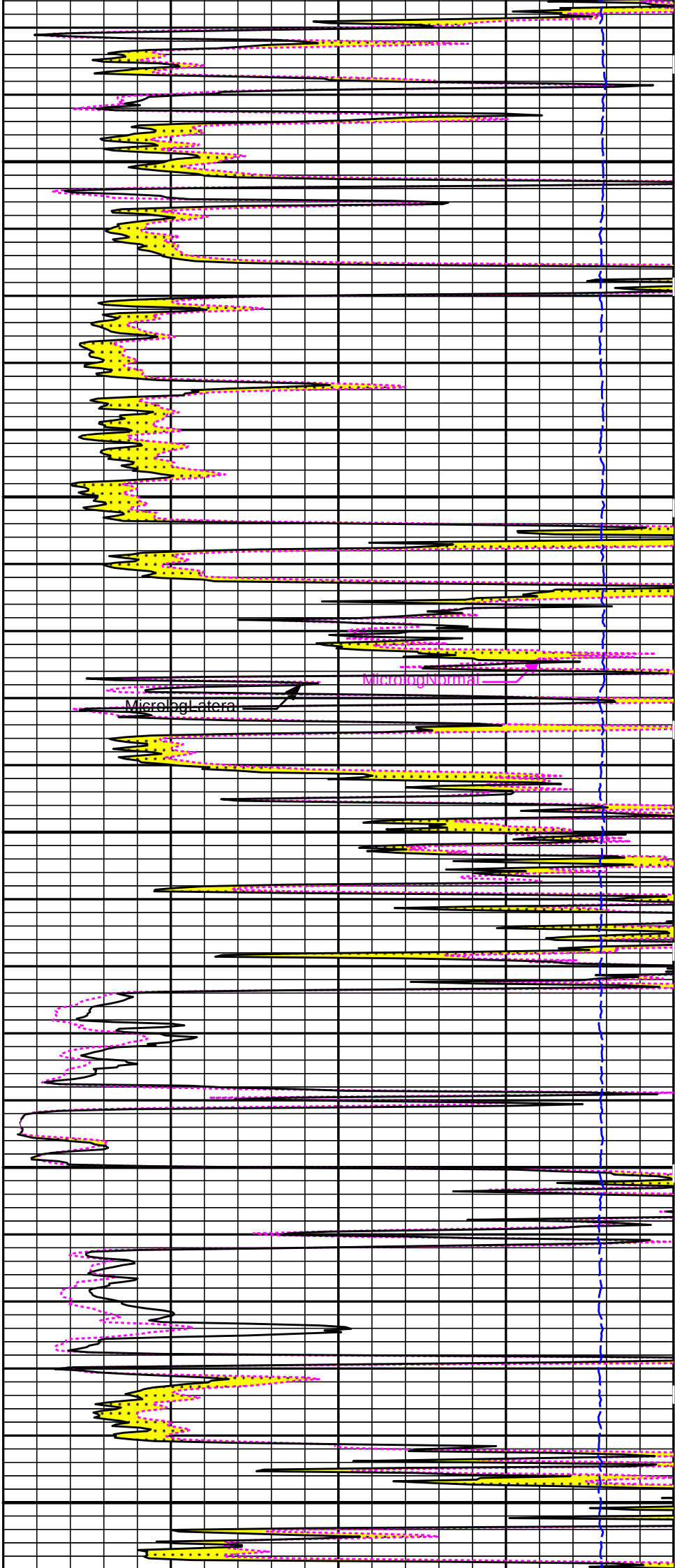
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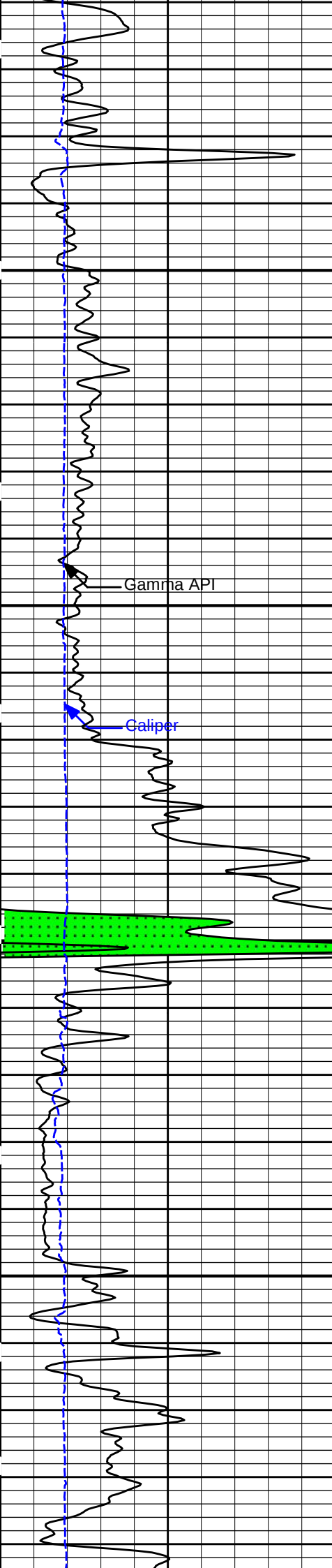




4600

4700



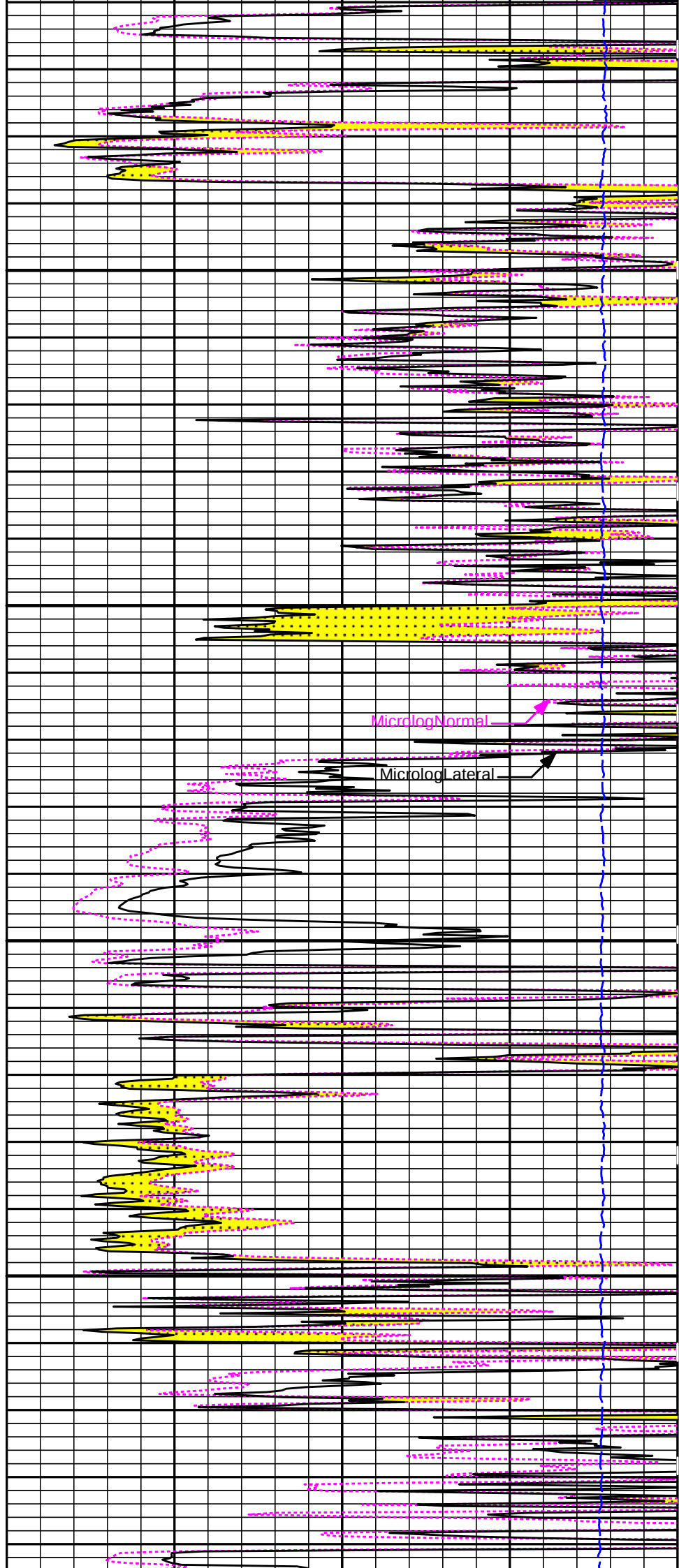


4800

Gamma API

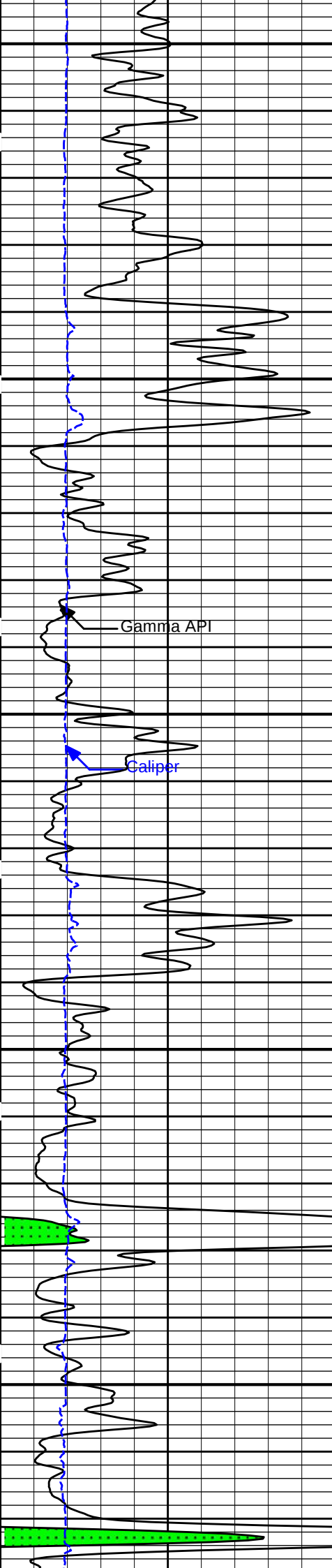
Caliper

4900



Microlog Normal

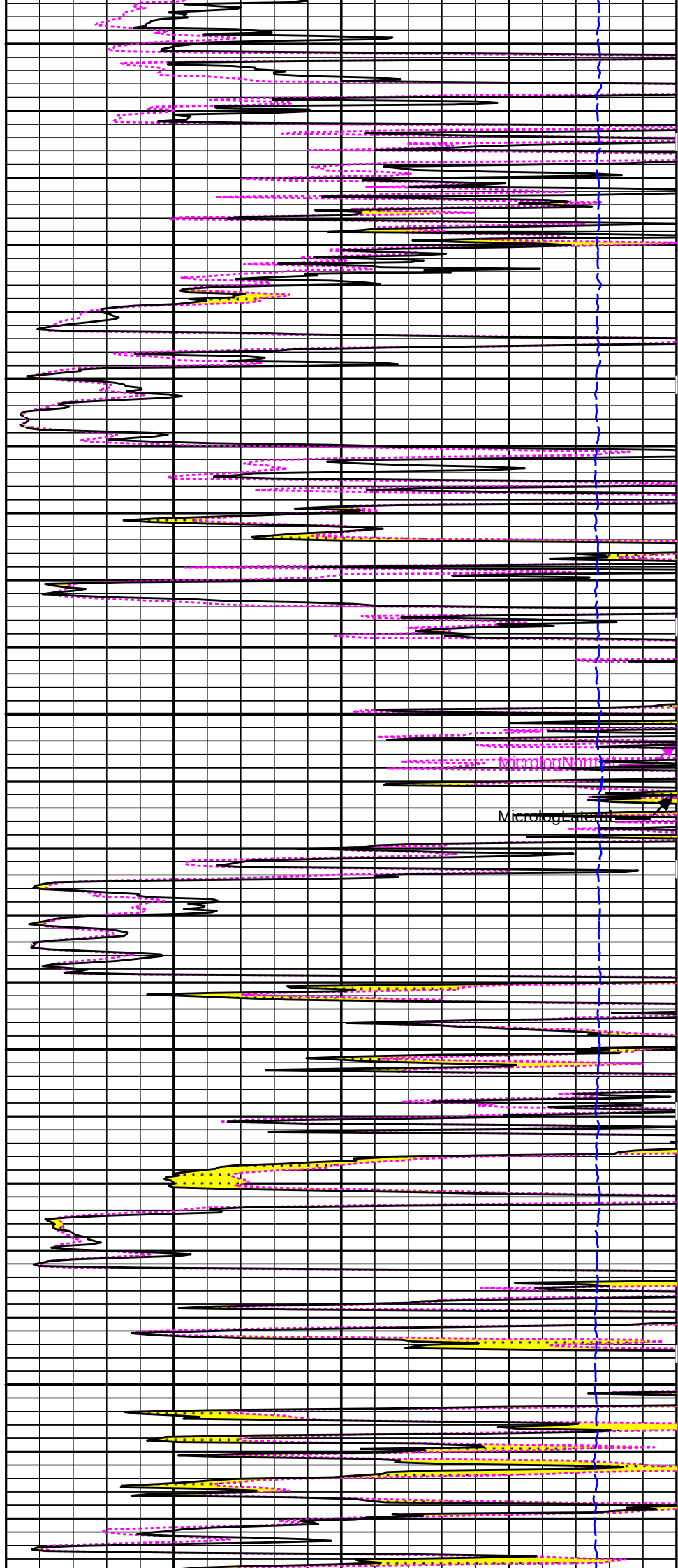
Microlog Lateral



5000

5100

5200

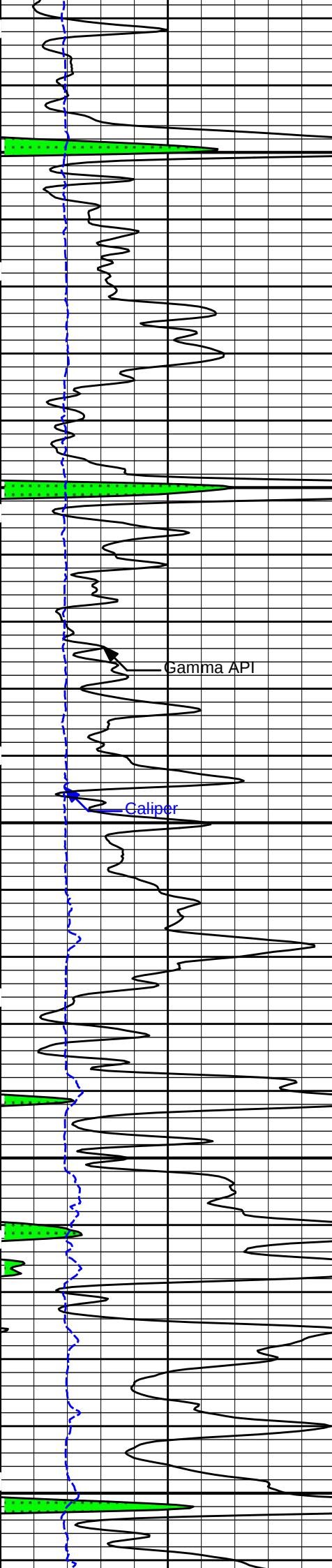


Gamma API

Caliper

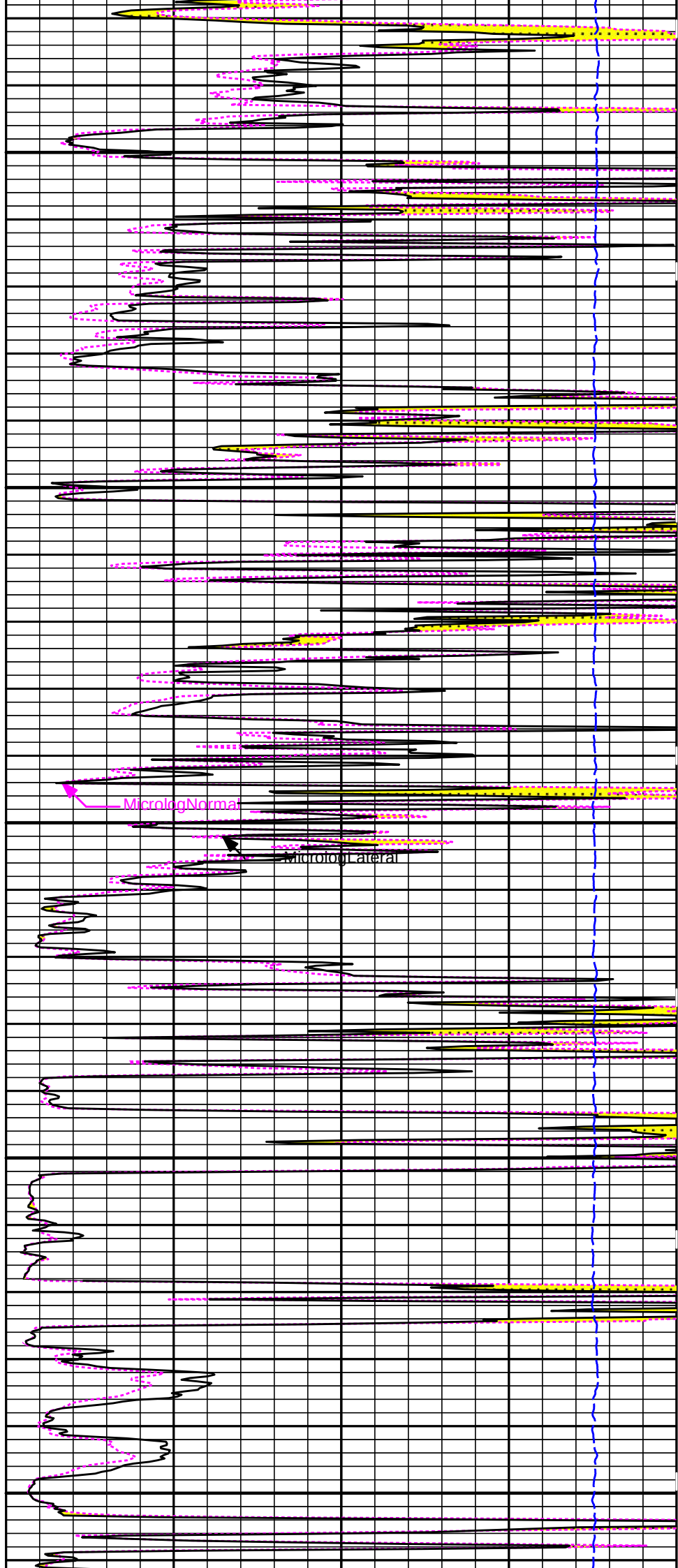
Microlog

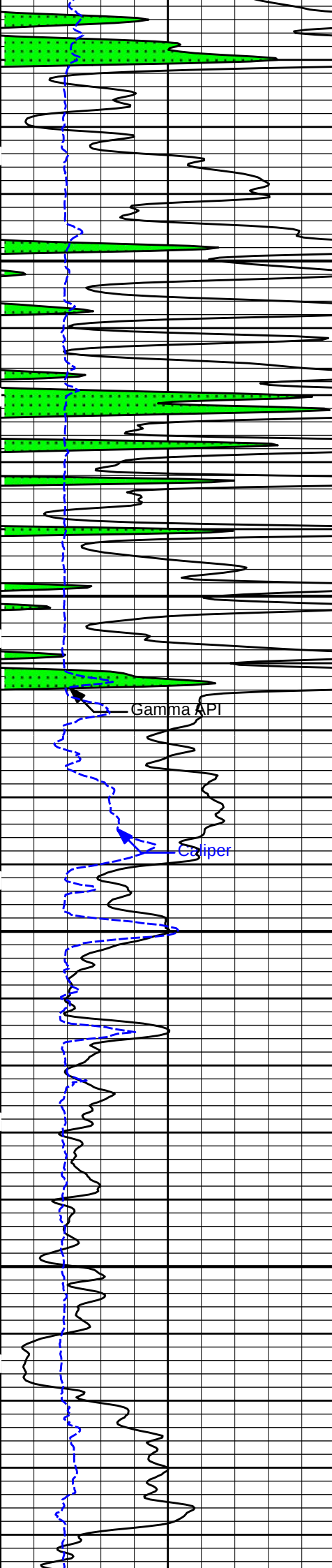
Normal



5300

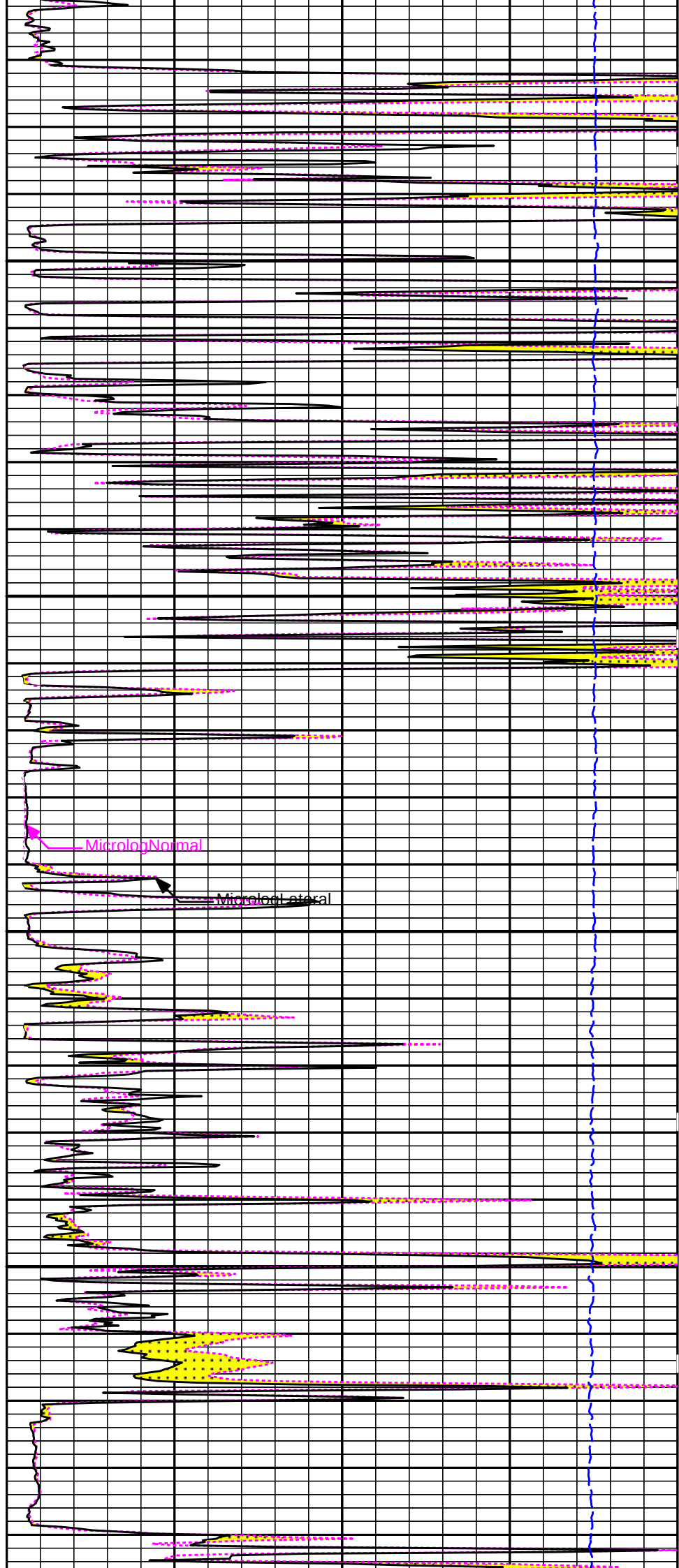
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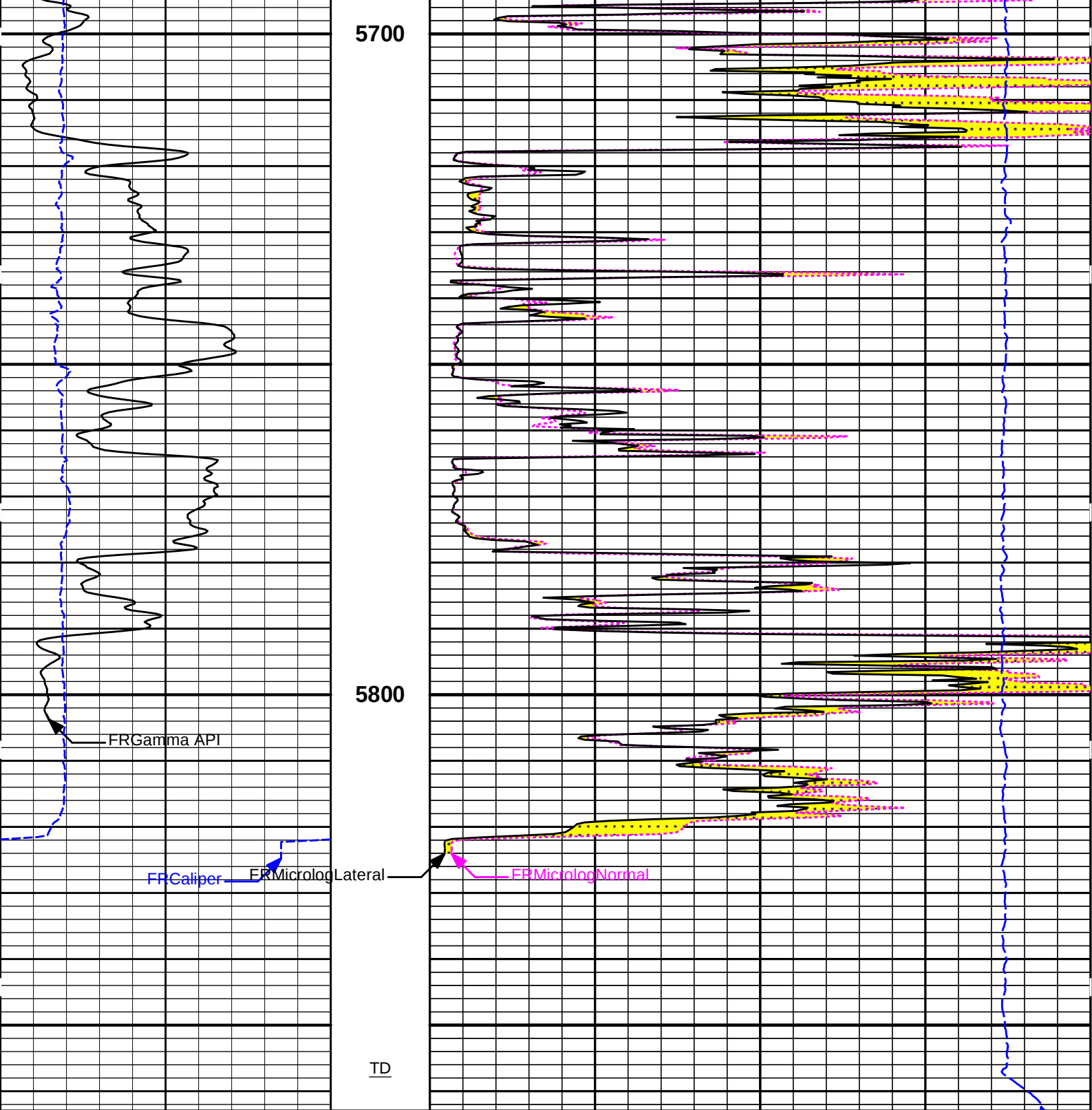




5500

5600





6	Caliper	16	1 : 240	15K	Tension	0
	inches		ft		pounds	
0	Gamma API	150		0	MicrologLateral	40
	api				ohm-metre	
				0	MicrologNormal	40
					ohm-metre	

HALLIBURTON

Plot Time: 02-Apr-18 21:13:59
Plot Range: 4000 ft to 5862.92 ft
Data: RAYDON_ROCK\Well Based\DAQ-0001-004\
Plot File: \\LOCAL-1\RAYDON_ROCK\0001 GTET-DSNT-SDLT-BSAT-ACRT\MICLOG\Microlog_IQ_5_main

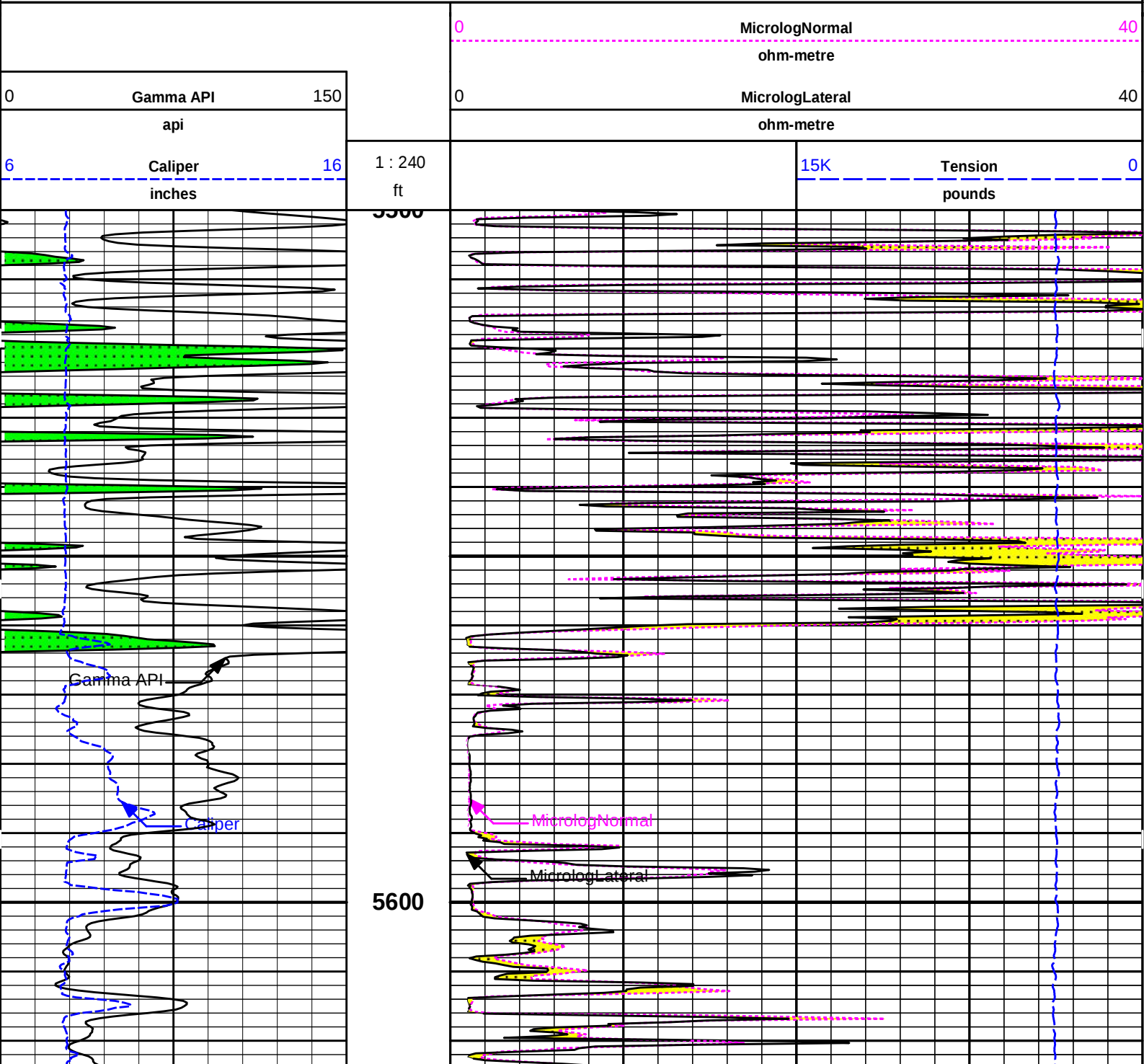
5 INCH MAIN LOG

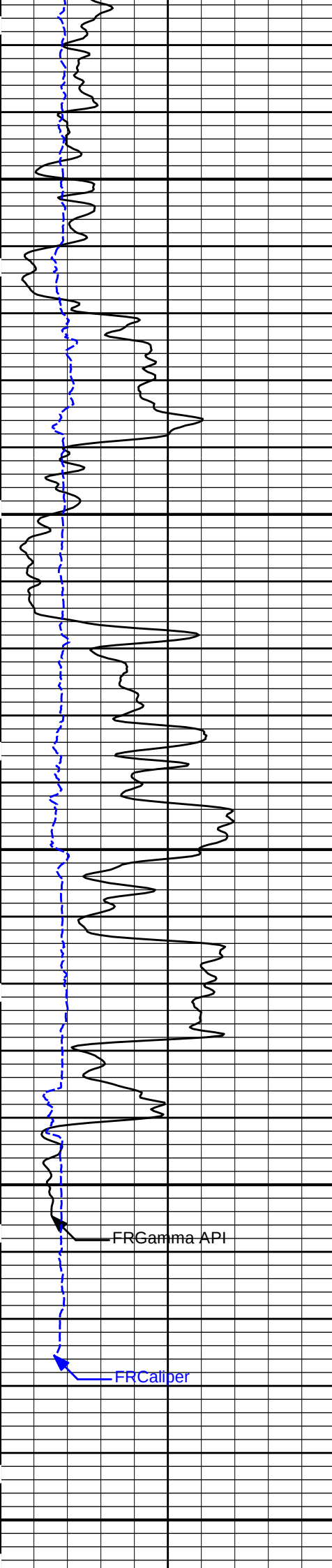
HALLIBURTON

Plot Time: 02-Apr-18 21:13:59
Plot Range: 5500 ft to 5864 ft
Data: RAYDON_ROCK\Well Based\DAQ-0001-003\
Plot File: \\-LOCAL-\\RAYDON_ROCK\0001 GTET-DSNT-SDLT-BSAT-ACRT\MICLOG\Microlog_IQ_5_main

REPEAT SECTION

REPEAT SECTION





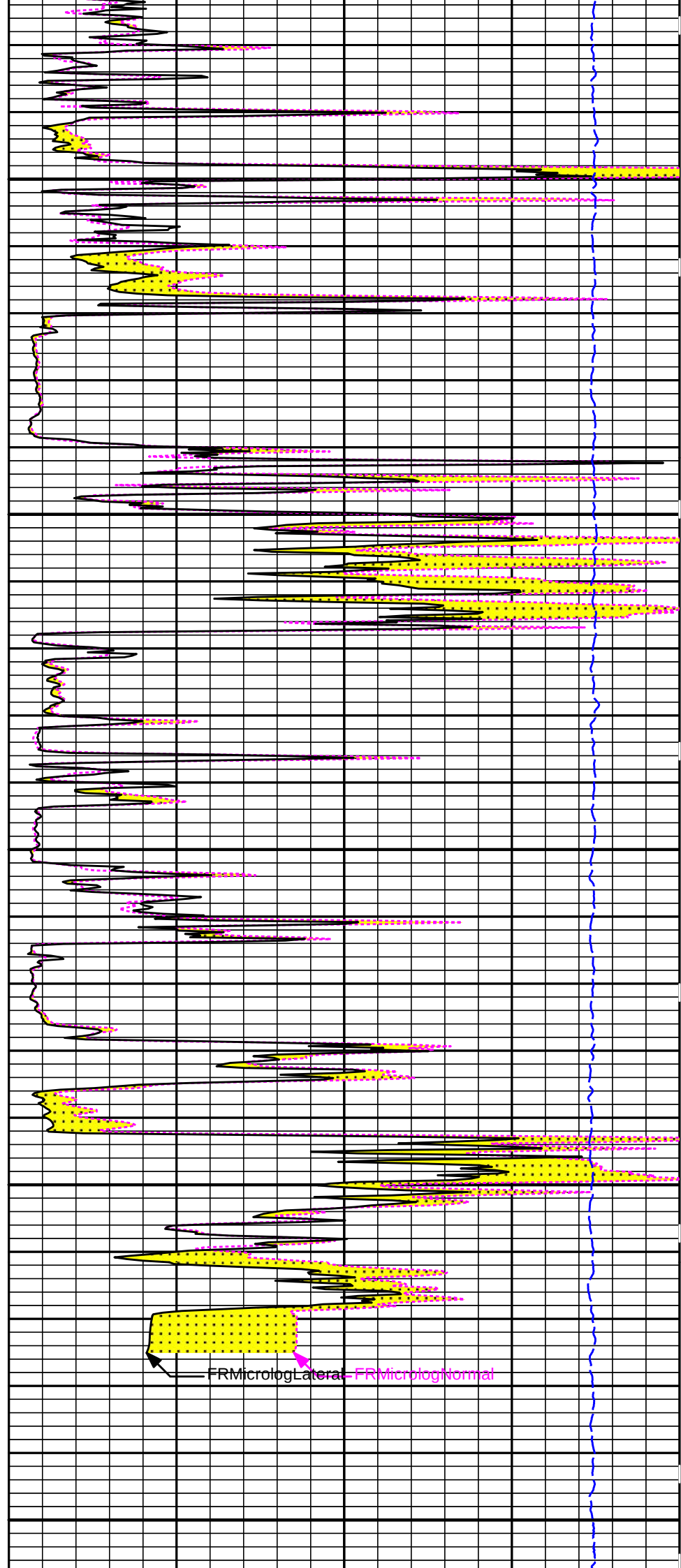
5700

5800

FRGamma API

FRCaliper

TD



FRMicrologLateral

FRMicrologNormal

Background + Calibrator	253.9	250.4	api
Calibrator	229.0	225.9	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION			
Tool Name:	GTET - 11013113	Reference Calibration Date:	02-Apr-18 09:34:23
Engineer:	WHITLOCK	Calibration Date:	02-Apr-18 09:42:58
Software Version:	WL INSITE R5.6.3 (Build 4)	Calibration Version:	1

Calibrator Source S/N: TB-79			
Calibrator API Reference:222.00 api			
Equivalent Calibrator API Reference:225.9 api			
Field Verification	Shop	Field	Units
Background	24.5	24.2	api
Background + Calibrator	250.4	247.0	api
Calibrator	225.9	222.8	api
Shop	Field	Difference	Tolerance
225.9	222.8	3.1	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION			
Tool Name:	DSNT - 11019641	Reference Calibration Date:	23-Jan-18 12:17:50
Engineer:	WHITLOCK	Calibration Date:	23-Jan-18 12:36:13
Software Version:	WL INSITE R5.6.3 (Build 4)	Calibration Version:	1

Logging Source S/N: DSN-436

Tank Serial Number: EL RENO HWT

Reference value assigned to Tank: 56.100

Snow Block S/N: 12156883

Calibration Tank Water Temperature: 72 degF

Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS			
Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.98237	0.98197	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):	0.2359	0.2358	0.0001	+/- 0.0020
Calibrated Ratio:	10.5640	10.5596	0.004	+/- 0.050

VERIFIER		
Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0770	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:	23-Jan-18 12:36:13
Engineer:	SEAN WOLTEMATH	Calibration Date:	02-Apr-18 09:46:51
Software Version:	WL INSITE R5.6.3 (Build 4)	Calibration Version:	1

Logging Source S/N: DSN-436			
Snow Block S/N: 12156883			
NEUTRON FIELD-CHECK SUMMARY			

	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decg):	0.0770	0.0634	-0.0136	+/- 0.0150
PASS/FAIL SUMMARY				
Block Change Check:			Passed	
Snow Block Stat Check:			Passed	
Temperature Check:			Passed	

Density Caliper Shop Calibration				
Tool Name:	SDLT - 10950489		Reference Calibration Date:	01-Jan-70 00:00:00
Engineer:	WHITLOCK		Calibration Date:	14-Dec-17 13:55:25
Software Version:	WL INSITE R5.6.3 (Build 4)		Calibration Version:	1
Host Tool Name:	DSNT - 11019641			

CALIBRATION COEFFICIENTS				
Measurement	Previous Value	New Value	Control Limit On New Value	
Pad Offset	-3919.89	-3919.89	-7000.00 - -1000.00	
Pad Gain	0.0003729	0.0003729	0.0002000 - 0.0006000	
Arm Offset	-3610.38	-3610.38	-5000.00 - 3000.00	
Arm Gain	0.0004319	0.0004319	0.000300 - 0.000700	
Arm Power	-0.000000447	-0.000000447	-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)	6.50	6.50	0.00	+/- 0.20
Medium Ring (in)	8.25	8.25	0.00	+/- 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	

Array Compensated True Resistivity Shop Calibration				
Tool Name:	ACRt Sonde - 11830728		Reference Calibration Date:	15-Dec-17 11:55:35
Engineer:	WHITLOCK		Calibration Date:	23-Feb-18 10:15:37
Software Version:	WL INSITE R5.6.3 (Build 4)		Calibration Version:	1
Host Tool Name:	ACRt Instrument - 11830684			

Typical Gain Range									
Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.0279	1.05	0.95	1.0076	1.05	0.95	0.9997	1.05
A2 (50")	0.95	1.0334	1.05	0.95	1.0139	1.05	0.95	1.0097	1.05
A3 (29")	0.95	1.0346	1.05	0.95	1.0146	1.05	0.95	1.0081	1.05
A4 (17")	0.95	1.0279	1.05	0.95	1.0063	1.05	0.95	1.0018	1.05
A5 (10")	N/A	N/A	N/A	0.95	1.0001	1.05	0.95	0.9950	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9869	1.05	0.95	0.9818	1.05

SONDE OFFSET							
Subarray	R12KHz		R36KHz		R72KHz		
	(mmho/m)		(mmho/m)		(mmho/m)		
A1 (80")	0.315		-4.964		-5.711		
A2 (50")	0.409		-3.450		-5.485		
A3 (29")	-11.648		-3.720		-3.783		
A4 (17")	-90.980		-28.724		-23.707		
A5 (10")	N/A		-76.200		-37.537		
A6 (6")	N/A		280.488		149.005		
TRANSMITTER CURRENT GAIN				R-MUD VERIFICATION			
Signal	Lower	R	Upper	Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
12K	0.6	0.82	1.3	Mud Cell	0.95	0.99	1.05
36K	1.0	1.80	2.0				
72K	1.0	1.05	2.0				
PASS/FAIL SUMMARY							
GAIN RANGE CHK				PASS			
SONDE OFFSET CHK				PASS			
TOOL OK TO LOG							

QUALITY CHECK SHOP CALIBRATION			
Tool Name:	ACRt Sonde - 11830728	Reference Calibration Date:	15-Dec-17 11:58:57
Engineer:	WHITLOCK	Calibration Date:	23-Feb-18 10:21:17
Software Version:	WL INSITE R5.6.3 (Build 4)	Calibration Version:	1
Host Tool Name:	ACRt Instrument - 11830684		

STANDARD DEVIATIONS									
	R12KHz			R36KHz			R72KHz		
	Measured (mmho/m)	Expected (mmho/m)	Pass/Fail	Measured (mmho/m)	Expected (mmho/m)	Pass/Fail	Measured (mmho/m)	Expected (mmho/m)	Pass/Fail
A1 (80")	0.000	< 0.750	Pass	0.000	< 0.750	Pass	0.000	< 0.750	Pass
A2 (50")	0.000	< 0.750	Pass	0.000	< 0.750	Pass	0.000	< 0.750	Pass
A3 (29")	0.000	< 0.750	Pass	0.000	< 0.750	Pass	0.000	< 0.750	Pass
A4 (17")	0.000	< 0.750	Pass	0.000	< 0.750	Pass	0.000	< 0.750	Pass
A5 (10")	0.000	< 0.750	Pass	0.000	< 0.750	Pass	0.000	< 0.750	Pass
A6 (6")	0.000	< 0.750	Pass	0.000	< 0.750	Pass	0.000	< 0.750	Pass

AVERAGES									
	R12KHz			R36KHz			R72KHz		
	Measured (mmho/m)	Expected (mmho/m)	Pass/Fail	Measured (mmho/m)	Expected (mmho/m)	Pass/Fail	Measured (mmho/m)	Expected (mmho/m)	Pass/Fail
A1 (80")	0.000	< 0.500	Pass	-0.001	> -0.500	Pass	-0.006	> -0.500	Pass
A2 (50")	0.000	< 0.500	Pass	-0.001	> -0.500	Pass	-0.005	> -0.500	Pass
A3 (29")	-0.000	< 0.500	Pass	-0.001	> -0.500	Pass	-0.003	> -0.500	Pass
A4 (17")	-0.002	> -0.500	Pass	-0.006	> -0.500	Pass	-0.022	> -0.500	Pass
A5 (10")	-0.010	> -0.500	Pass	-0.017	> -0.500	Pass	-0.036	> -0.500	Pass
A6 (6")	0.014	< 0.500	Pass	0.063	< 0.500	Pass	0.138	< 0.500	Pass

GAIN TOLERANCE									
R12KHz									
	Measured (mmho/m)	Last Month (mmho/m)	Difference (mmho/m)	Tolerance (mmho/m)	Pass/Fail				

A1 (80")	-213173456.000	-213653808.000	480352.000	10682690.400	Pass
A2 (50")	-205651744.000	-206143280.000	491536.000	10307164.000	Pass
A3 (29")	-200817664.000	-201197776.000	380112.000	10059888.800	Pass
A4 (17")	-200193568.000	-200629872.000	436304.000	10031493.600	Pass
A5 (10")	-200252336.000	-200678960.000	426624.000	10033948.000	Pass
A6 (6")	-199820688.000	-200219344.000	398656.000	10010967.200	Pass
R36KHz					
	Measured (mmho/m)	Last Month (mmho/m)	Difference (mmho/m)	Tolerance (mmho/m)	Pass/Fail
A1 (80")	48114080.000	48477272.000	363192.000	2423863.600	Pass
A2 (50")	33966292.000	34324412.000	358120.000	1716220.600	Pass
A3 (29")	28032378.000	28346680.000	314302.000	1417334.000	Pass
A4 (17")	27853682.000	28207516.000	353834.000	1410375.800	Pass
A5 (10")	27373208.000	27716930.000	343722.000	1385846.500	Pass
A6 (6")	26035236.000	26360300.000	325064.000	1318015.000	Pass
R72KHz					
	Measured (mmho/m)	Last Month (mmho/m)	Difference (mmho/m)	Tolerance (mmho/m)	Pass/Fail
A1 (80")	-92927656.000	-93022904.000	95248.000	4651145.200	Pass
A2 (50")	-90501024.000	-90617752.000	116728.000	4530887.600	Pass
A3 (29")	-88192472.000	-88292832.000	100360.000	4414641.600	Pass
A4 (17")	-88397088.000	-88515880.000	118792.000	4425794.000	Pass
A5 (10")	-86957704.000	-87076952.000	119248.000	4353847.600	Pass
A6 (6")	-87976216.000	-88080696.000	104480.000	4404034.800	Pass
PASS/FAIL SUMMARY					
Std Deviation Verification				Pass	
Average Verification				Pass	
Gain Tolerance Verification				Pass	

MICRO LOG SHOP CALIBRATION					
Tool Name:	Microlog Pad - 10950489			Reference Calibration Date:	14-Dec-17 13:13:21
Engineer:	SEAN WOLTEMATH			Calibration Date:	29-Mar-18 10:10:09
Software Version:	WL INSITE R5.6.3 (Build 4)			Calibration Version:	1
Host Tool Name:	DSNT - 11019641				

	CALIBRATION COEFFICIENT SUMMARY					
	Measurement	Micro Log Normal		Micro Log Lateral		Units
		Measured	Calibrated	Measured	Calibrated	
	Tool Zero	-0.07	-0.09	-0.01	-0.01	ohmm
	Calibration Point #1	0.02	0.00	0.00	0.00	ohmm
	Calibration Point #2	20.01	20.00	19.99	20.00	ohmm
	Internal Reference	19.92	19.91	19.98	19.99	ohmm
	Measurement	Micro Log Normal Tool Value		Micro Log Lateral Tool Value		Units
	Tool Zero	0.01		0.02		V
	Calibration Point #1	22.62		2.05		V
	Calibration Point #2	5331.95		6945.96		V
	Internal Reference	5308.27		6942.10		V

MICRO LOG FIELD CHECK					
Tool Name:	Microlog Pad - 10950489			Reference Calibration Date:	29-Mar-18 10:10:09
Engineer:	WHITLOCK			Calibration Date:	02-Apr-18 09:31:49
Software Version:	WL INSITE R5.6.3 (Build 4)			Calibration Version:	1

	Measurement	Micro Log Normal		Micro Log Lateral		
	Tool Zero	0.01		0.02		
	Calibration Point #1	22.62		2.05		
	Calibration Point #2	5331.95		6945.96		
	Internal Reference	5308.27		6942.10		
	MICRO LOG FIELD CHECK					
	Tool Name:	Microlog Pad - 10950489			Reference Calibration Date:	29-Mar-18 10:10:09
	Engineer:	WHITLOCK			Calibration Date:	02-Apr-18 09:31:49
	Software Version:	WL INSITE R5.6.3 (Build 4)			Calibration Version:	1

	Measurement	Micro Log Normal		Micro Log Lateral		
	Tool Zero	0.01		0.02		
	Calibration Point #1	22.62		2.05		
	Calibration Point #2	5331.95		6945.96		
	Internal Reference	5308.27		6942.10		
	MICRO LOG FIELD CHECK					
	Tool Name:	Microlog Pad - 10950489			Reference Calibration Date:	29-Mar-18 10:10:09
	Engineer:	WHITLOCK			Calibration Date:	02-Apr-18 09:31:49
	Software Version:	WL INSITE R5.6.3 (Build 4)			Calibration Version:	1

	Shop	Field	Shop	Field	Units
Tool Zero	-0.09	-0.09	-0.01	-0.01	ohmm
Internal Reference	19.91	19.88	19.99	19.96	ohmm
Summary					
Signal	Shop	Field	Difference	Tolerance	
Microlog Normal	19.91	19.88	0.03	+/- 0.80	
Microlog Lateral	19.99	19.96	0.03	+/- 0.80	

SPECTRAL DENSITY SHOP CALIBRATION

Tool Name:	SDLT Pad - 11213308	Reference Calibration Date:	14-Dec-17 13:29:17
Engineer:	SEAN WOLTEMATH	Calibration Date:	29-Mar-18 13:45:53
Software Version:	WL INSITE R5.6.3 (Build 4)	Calibration Version:	1

Logging Source S/N: 5155GW		
Aluminum Block S/N: EL RENO	Density: 2.581g/cc	Pe: 3.170
Magnesium Block S/N: EL RENO	Density: 1.687g/cc	Pe: 2.594

Density Calibration Summary			
Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0311	1.0351	0.90 - 1.10
Near Dens Gain	1.0140	1.0142	0.90 - 1.10
Near Peak Gain	1.0305	1.0443	0.90 - 1.10
Near Lith Gain	1.0375	1.0681	0.90 - 1.10
Far Bar Gain	1.0101	1.0125	0.90 - 1.10
Far Dens Gain	0.9969	0.9981	0.90 - 1.10
Far Peak Gain	0.9958	0.9949	0.90 - 1.10
Far Lith Gain	0.9757	0.9731	0.90 - 1.10
Near Bar Offset	0.0106	-0.0096	NONE
Near Dens Offset	0.1722	0.1818	NONE
Near Peak Offset	0.0177	-0.0795	NONE
Near Lith Offset	-0.0725	-0.3008	NONE
Far Bar Offset	0.1300	0.1155	NONE
Far Dens Offset	0.2552	0.2496	NONE
Far Peak Offset	0.2487	0.2613	NONE
Far Lith Offset	0.3676	0.3924	NONE
Near Bar Background	963.19	957.68	700 - 1450
Near Dens Background	320.82	317.42	230 - 480
Near Peak Background	140.46	138.59	100 - 210
Near Lith Background	171.88	169.33	125 - 260
Far Bar Background	490.97	486.09	450 - 900
Far Dens Background	195.43	194.85	175 - 345
Far Peak Background	78.63	78.00	70 - 140
Far Lith Background	81.18	81.14	75 - 145

Calibration Block Summary				
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.674	1.687	0.013	+/- 0.015
Pe	2.623	2.551	-0.072	+/- 0.150
ALUMINUM				
Density (g/cc)	2.567	2.581	0.014	+/- 0.01500
Pe	3.146	3.123	-0.023	+/- 0.150

Tool Summary			
Measurement	Near Detector	Far Detector	

Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	-0.0015	+/- 0.0110	-0.0006	+/- 0.0140
Magnesium Block	-0.0009	+/- 0.0110	0.0001	+/- 0.0140
Aluminum Block	-0.0011	+/- 0.0110	-0.0005	+/- 0.0140
Resolution	9.25	6.00 - 11.50	9.36	6.00 - 11.50
Internal Verifier(B+D+P+L)	1583	1200 - 2700	840	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 - 11213308		Reference Calibration Date:	29-Mar-18 13:45:53
Engineer:	WHITLOCK		Calibration Date:	02-Apr-18 09:35:32
Software Version:	WL INSITE R5.6.3 (Build 4)		Calibration Version:	1

Pad Temperature: 64.7 degF				
DENSITY FIELD CALIBRATION SUMMARY				
Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1583.020	1579.950	-3.070	16.005
Far (B+D+P+L) cps	840.072	840.066	-0.006	15.931
Near Resolution	9.25	9.25	0.000	0.50
Far Resolution	9.36	9.25	-0.110	1.00
PASS/FAIL SUMMARY				
Bkg Quality Check:			Passed	
Bkg Resolution Check:			Passed	
Bkg Verification Check:			Passed	

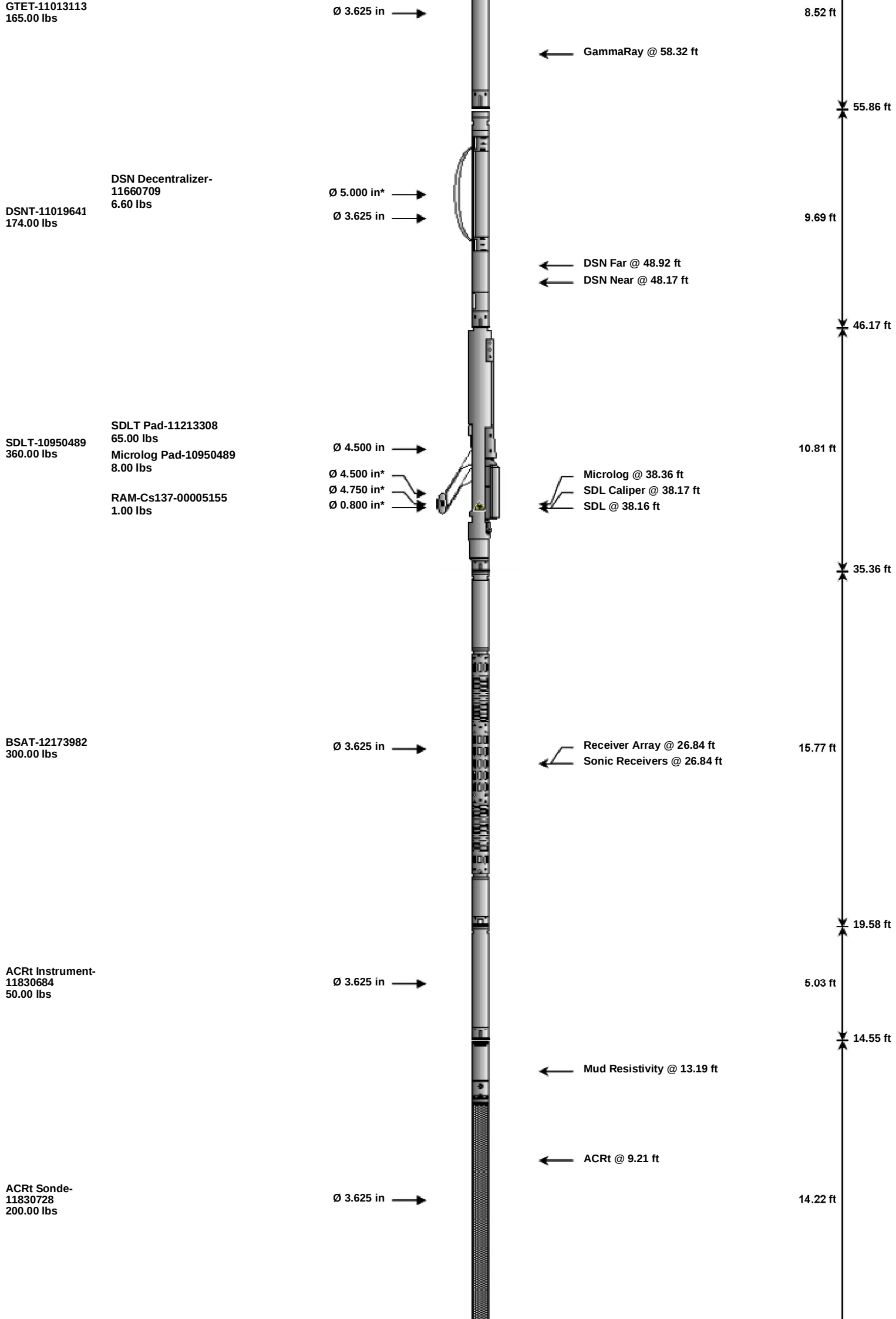
CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
Depth Panel-12345678						
Tension Zero	0.00	-----	-----	0.00	-----	lbs
Tension Cal	7830.00	-----	-----	0.00	-----	lbs
CH_HOS-CH_HOS_I						
DH Tension Zero	0.00	-----	-----	0.00	-----	lbs
DH Tension Cal	1810.00	-----	-----	0.00	-----	lbs
GTET-11013113						
Gamma Ray Calibrator	225.9	222.8	-----	3.1	+/- 9.00	api
DSNT-11019641						
Snow-Block Porosity	0.0770	0.0634	-----	0.0136	+/- 0.0150	decg
SDLT-10950489						
Pad Extension	3.75	-----	-----	0.00	+/-0.20	in
Ring Diameter	8.25	-----	-----	0.00	+/-0.20	in
ACRt Sonde-11830728						
Mud Cell	0.99	-----	-----	0	-----	ohm-m
Microlog Pad-10950489						
Microlog Normal	19.91	19.88	-----	0.03	+/-0.80	ohmm

MicroLog Normal	19.91	19.88	-----	0.03	+/-0.88	ohmm
MicroLog Lateral	19.99	19.96	-----	0.03	+/-0.80	ohmm
SDLT Pad-11213308						
Near(B+D+P+L)	1583.020	1579.950	-----	3.070	+/-16.005	cps
Far(B+D+P+L)	840.072	840.066	-----	0.006	+/-15.931	cps
Data: RAYDON_ROCK\0001 GTET-DSNT-SDLT-BSAT-ACRT\IDLE					Date: 02-Apr-18 17:05:59	

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	8.900	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	1.250	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	5860.00	ft
	SHARED	BHT	Bottom Hole Temperature	138.0	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	SOCI	Source of Casing Information	Parameters	
	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	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



Bull Nose-12345678
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)
CH_HOS	Hostile Cable Head with Load Cell		CH_HOS_I	37.50	3.03	69.07	300.00
WP7K	Weak Point 7000 lbs		CH_HOS_I	0.01	0.01	* 69.87	300.00
XOHD	Hostile to Dits Cross Over		12345678	20.00	0.95	68.12	300.00
SP	SP Sub		11812437	60.00	3.74	64.38	300.00
GTET	Gamma Telemetry Tool		11013113	165.00	8.52	55.86	60.00
DSNT	Dual Spaced Neutron		11019641	174.00	9.69	46.17	60.00
DCNT	DSN Decentralizer		11660709	6.60	5.13	* 49.50	300.00
SDLT	Spectral Density Tool		10950489	360.00	10.81	35.36	60.00
SDLP	Density Insite Pad		11213308	65.00	2.55	* 37.57	60.00
Cs137	Logging Source, SDLT-I, 1.78 Ci - Cs137		00005155	1.00	0.80	* 37.80	300.00
MICP	Microlog Pad		10950489	8.00	1.00	* 37.86	60.00
BSAT	Borehole Sonic Array Tool		12173982	300.00	15.77	19.58	60.00
ACRt	Array Compensated True Resistivity Instrument Section		11830684	50.00	5.03	14.55	120.00
ACRt	Array Compensated True Resistivity Sonde Section		11830728	200.00	14.22	0.33	120.00
BLNS	Bull Nose		12345678	5.00	0.33	0.00	300.00
Total				1,452.11	72.10		

* Not included in Total Length and Length Accumulation.

Data: RAYDON_ROCKI0001 GTET-DSNT-SDLT-BSAT-ACRTIDLE

Date: 02-Apr-18 17:14:23