

HALLIBURTON

MICROLOG

HALLIBURTON										MICROLOG									
BEREXCO LLC					COMPANY					BEREXCO LLC									
RISA 1-22					WELL					RISA 1-22									
VICTORY					FIELD/BLOCK					VICTORY									
HASKELL					COUNTY					HASKELL									
KANSAS					STATE					KANSAS									
COMPANY					API No.					15-081-22206-00-00									
WELL					Location					(SHL) NE SW SW NW 2150' FNL & 500' FWL									
FIELD/BLOCK					Sect.					22									
COUNTY					Twp.					30S									
HASKELL					Rge.					33W									
STATE					Other Services:					ACRT SDL-DSN MICROLOG SONIC									
Permanent Datum					GL					Elev. 2947.0 ft									
Log measured from					KB					12.0 ft above perm. Datum									
Drilling measured from					KB					G.L.									
Date					26-Nov-19														
Run No.					1														
Depth - Driller					5650.0 ft														
Depth - Logger					5651.0 ft														
Bottom - Logged Interval					5641														
Top - Logged Interval					3900														
Casing - Driller					8.625 in					@									
Casing - Logger					1706.0 ft					@									
Bit Size					7.875 in					@									
Type Fluid in Hole					Water Based Mud					@									
Density					9.30 g/cc					53.00 s/qt									
PH					10.00 pH					6.4 cpm									
Source of Sample					FLOWLINE														
Rm @ Meas. Temperature					0.78 ohmm					@ 70.00 degF									
Rmf @ Meas. Temperature					0.61 ohmm					@ 68.00 degF									
Rmc @ Meas. Temperature					0.93 ohmm					@ 68.00 degF									
Source Rmf					Rmc					MEAS									
Rm @ BHT					0.42 ohmm					@ 135.0 degF									
Time Since Circulation					05:00 hr														
Time on Bottom					26-Nov-19 10:08														
Max. Rec. Temperature					135.00 degF					@ 5651.0 ft									
Equipment					12156883					EL RENO, OK									
Recorded By					WHITLOCK														
Witnessed By					ED GRIEVES														

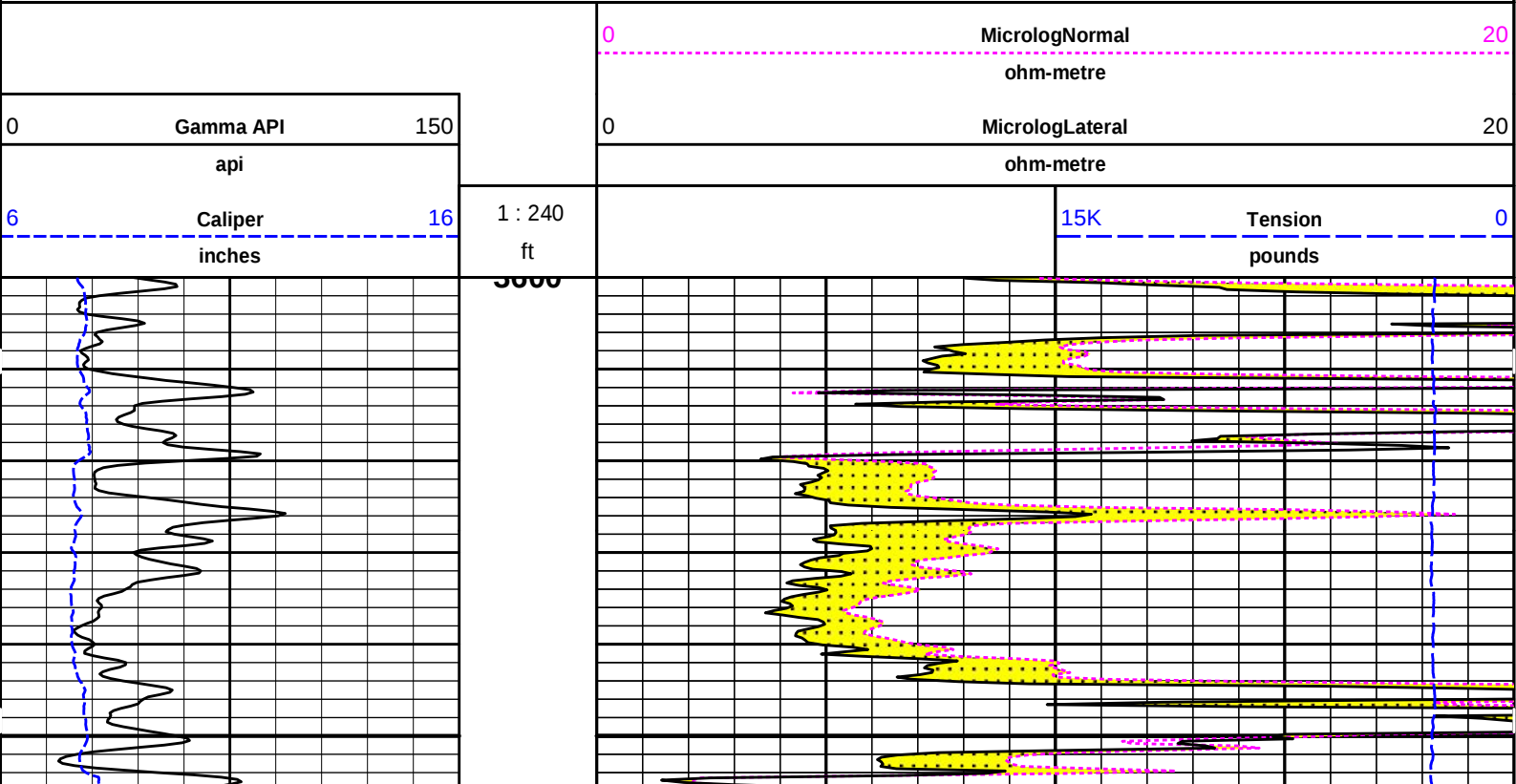
DIRECTIONAL INFORMATION														
Maximum Deviation @								KOP @						
Remarks: 5 1/2" CASING USED FOR ANNULAR HOLE VOLUME														
HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH 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														

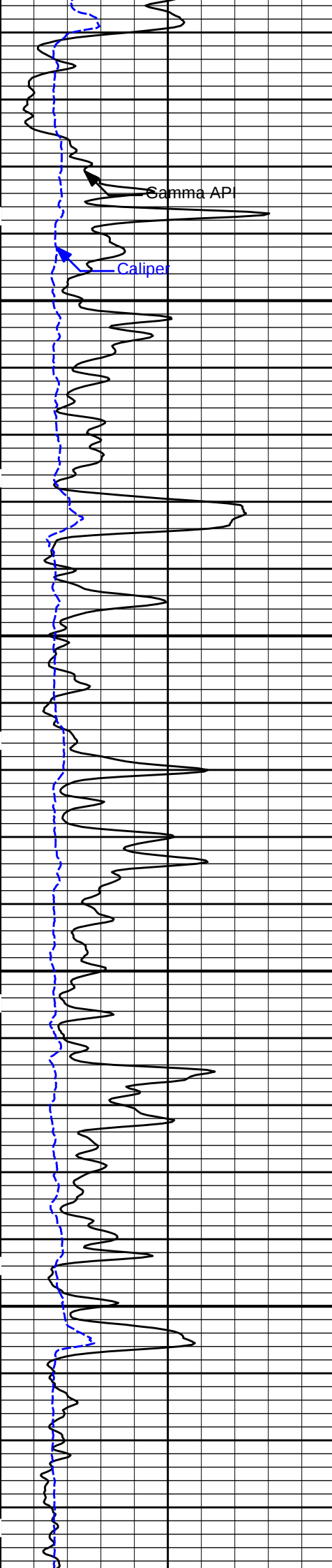
HALLIBURTON

Plot Time: 26-Nov-19 12:25:03
Plot Range: 3600 ft to 5660.42 ft
Data: BEREXCO_RISA\Well Based\DAQ-0001-003\
Plot File: \\-LOCAL-\\BEREXCO_RISA\0001 GTET-DSN-SDL-ACRT-BSAT\MLOG\Microlog_IQ_5_main

5 INCH MAIN LOG

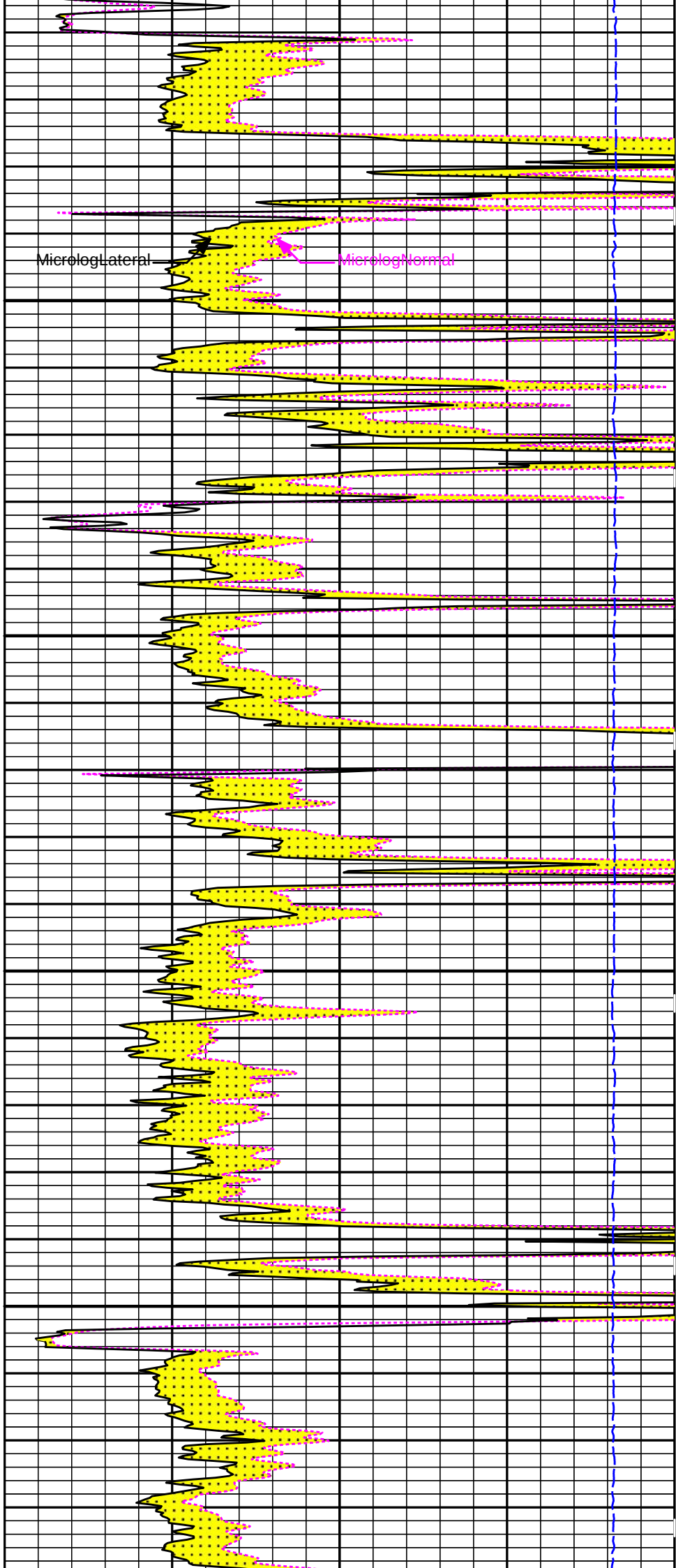
MAIN LOG 5" PER 100'

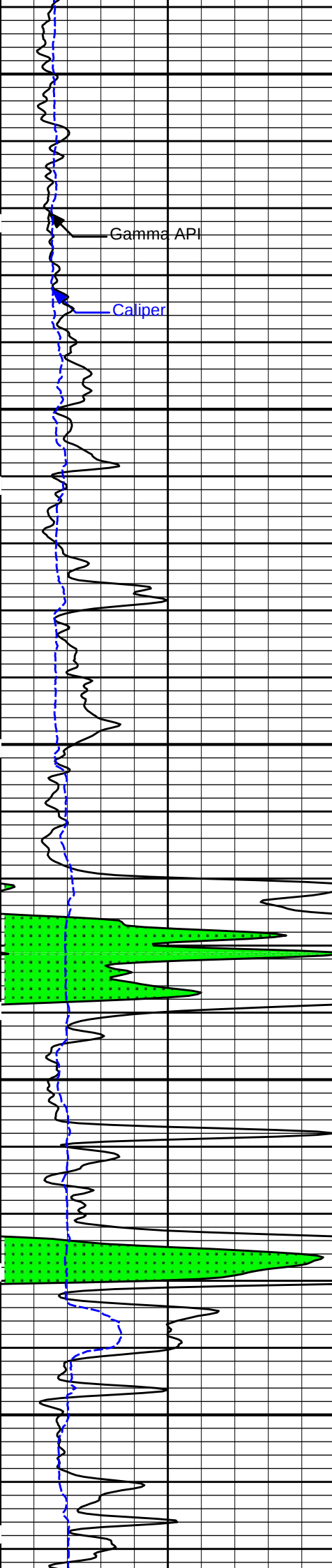




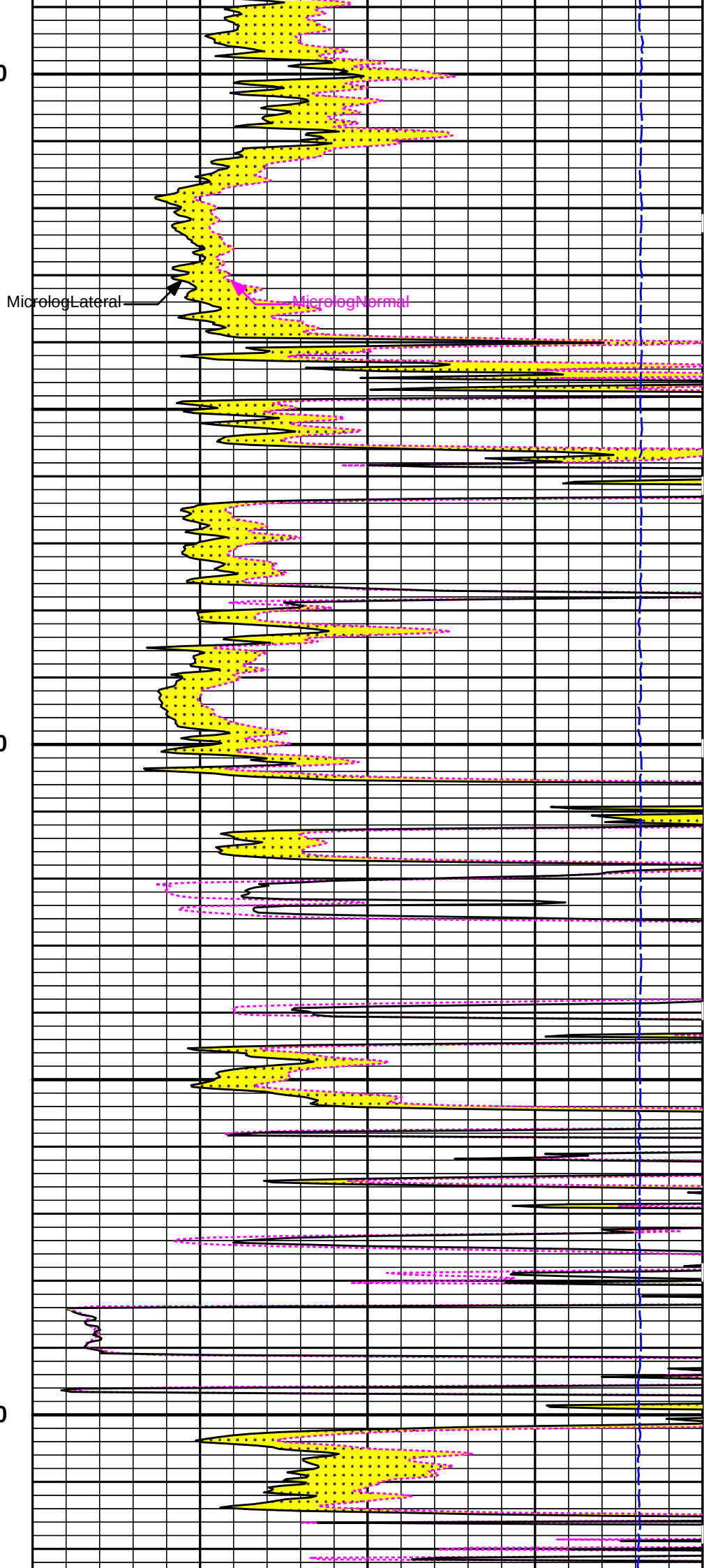
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3800



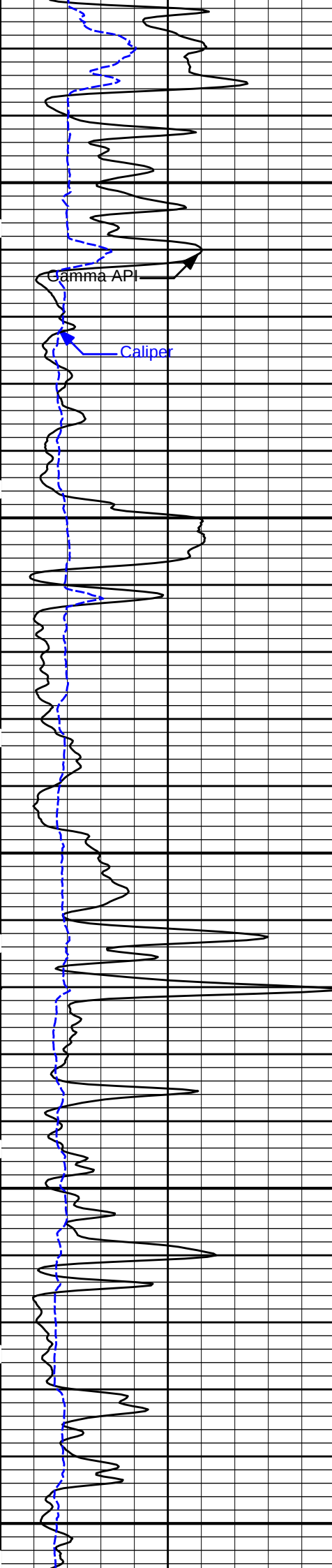


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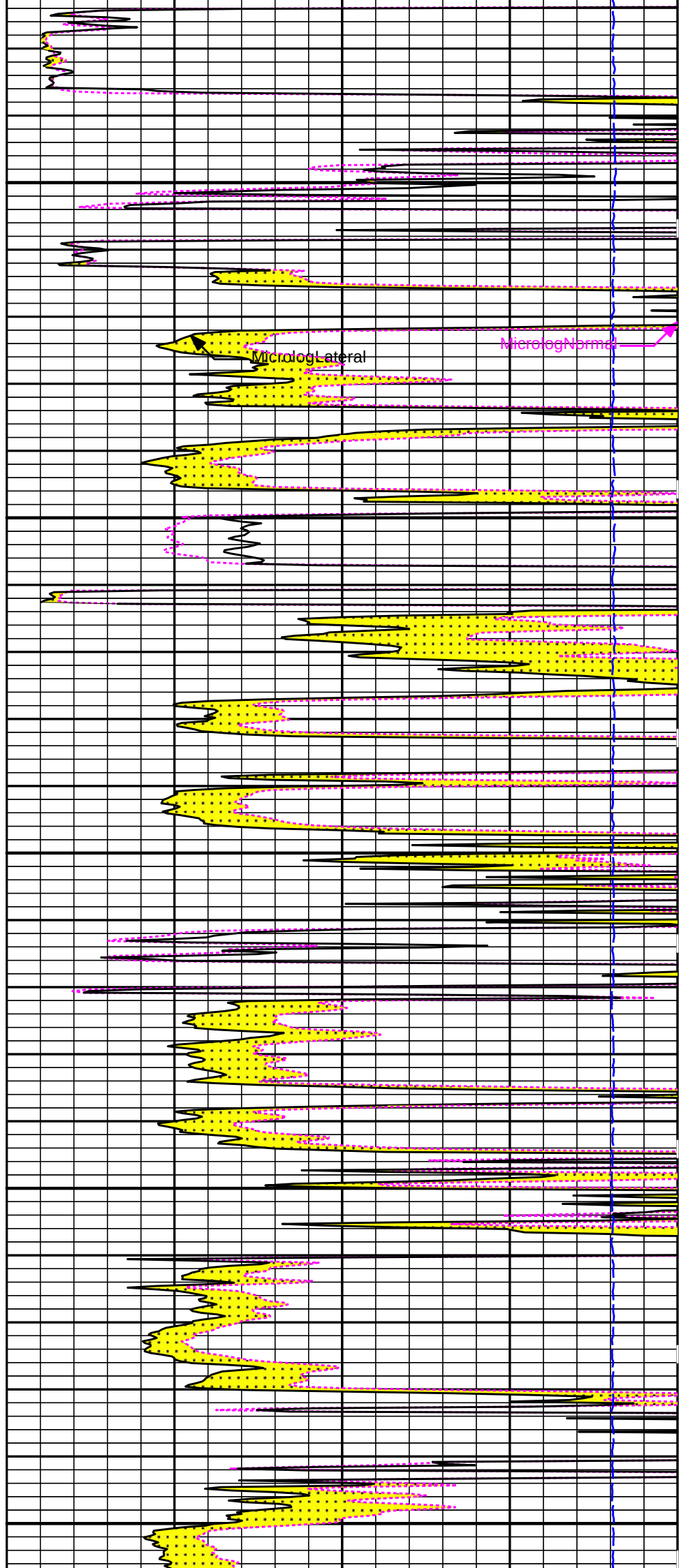
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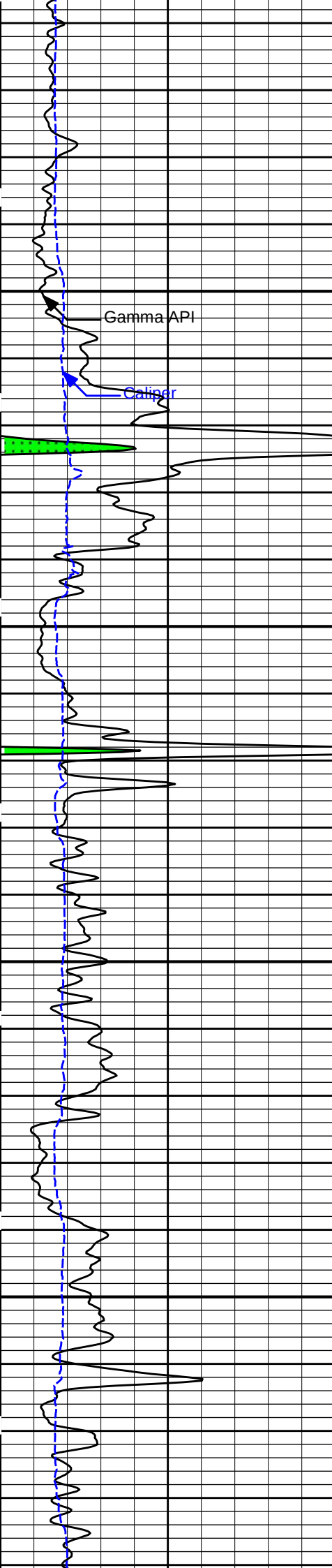
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4200

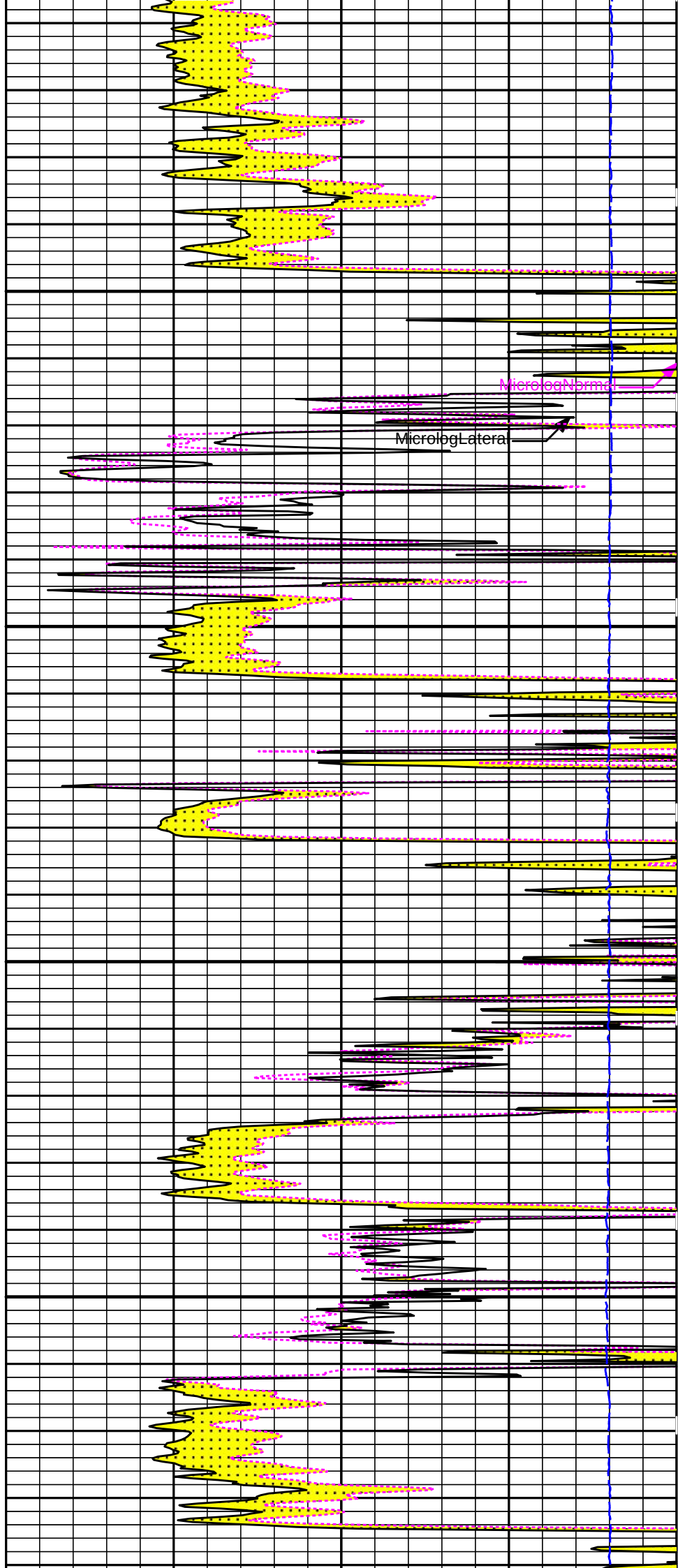
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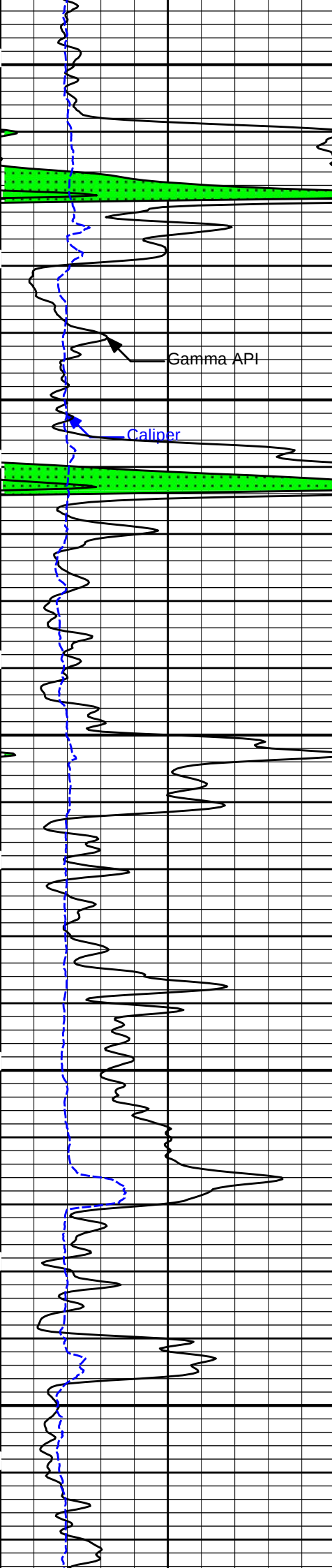




4400

4500





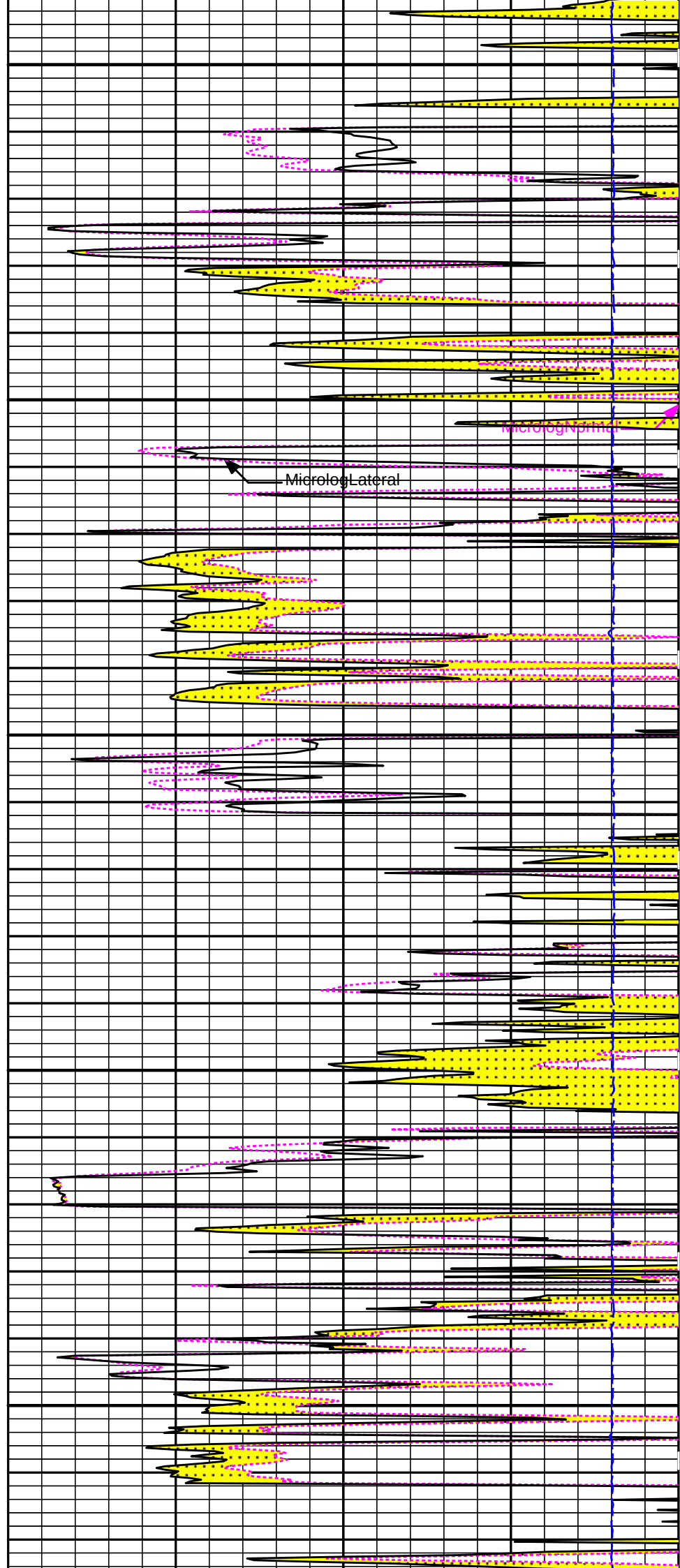
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Gamma API

Caliper

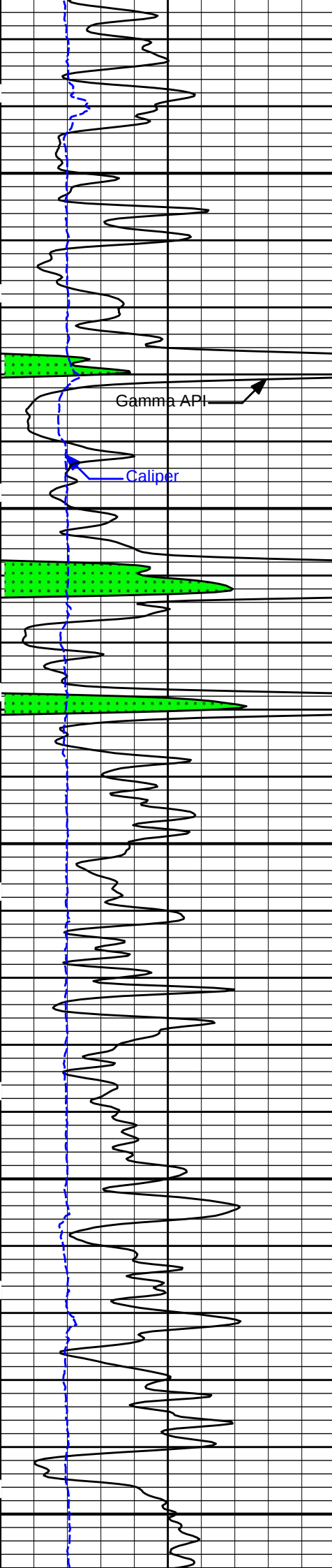
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4800



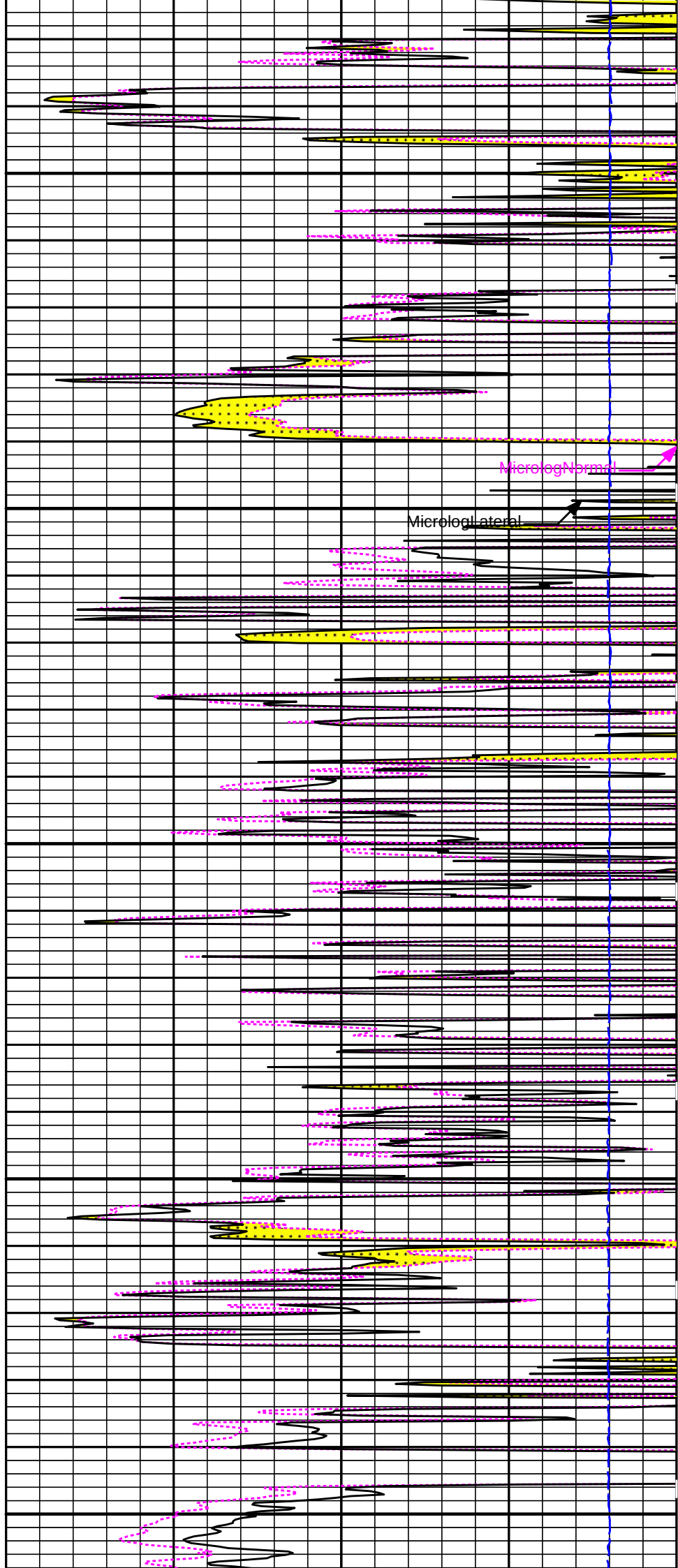
Microlog Lateral

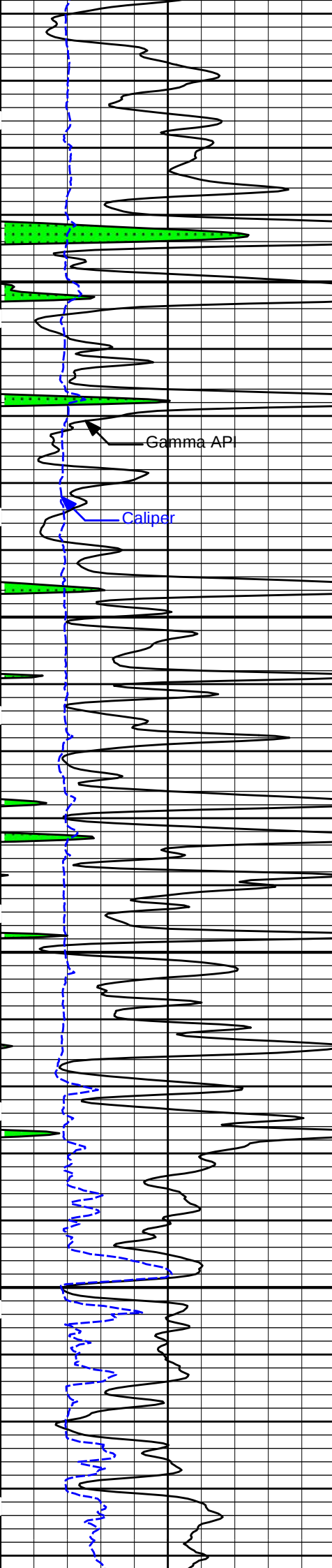
Microlog IP



4900

5000



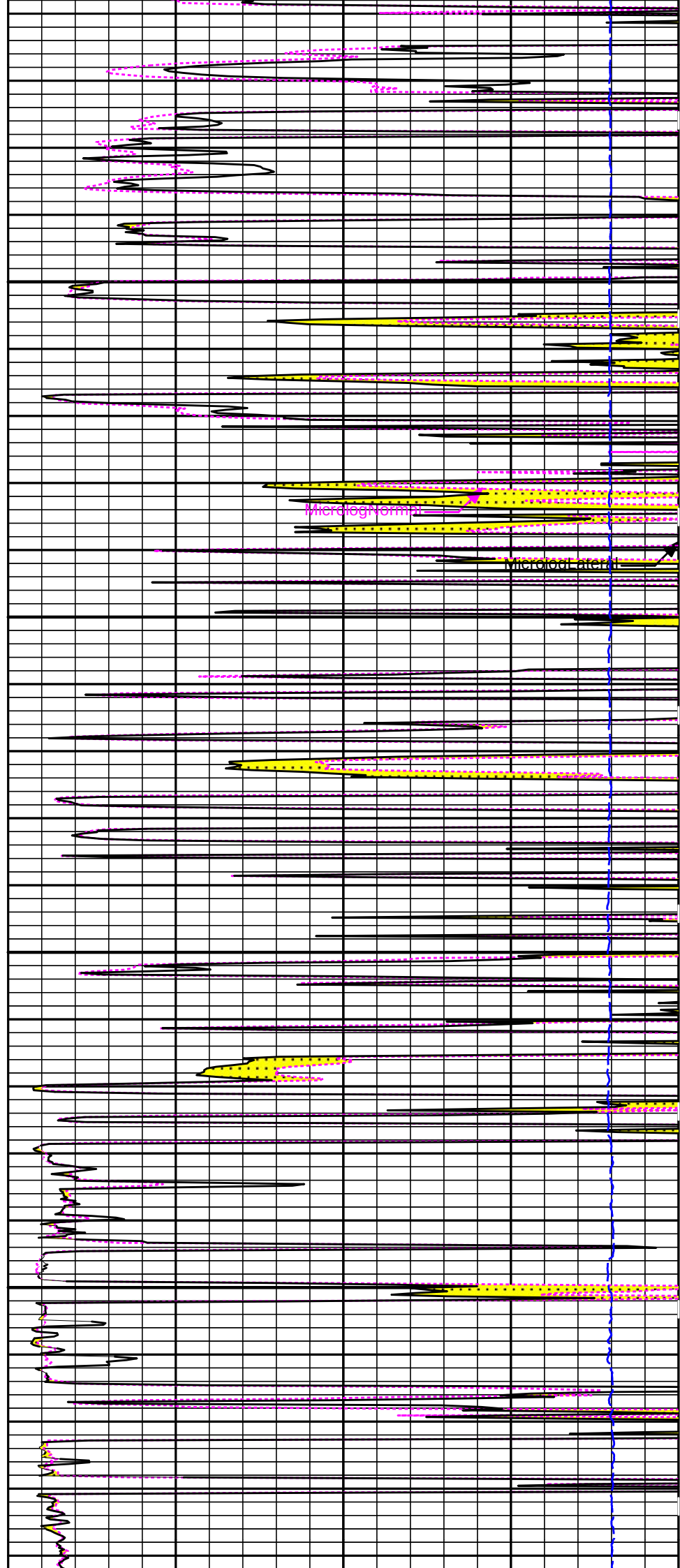


5100

Gamma API

Caliper

5200



Microlog

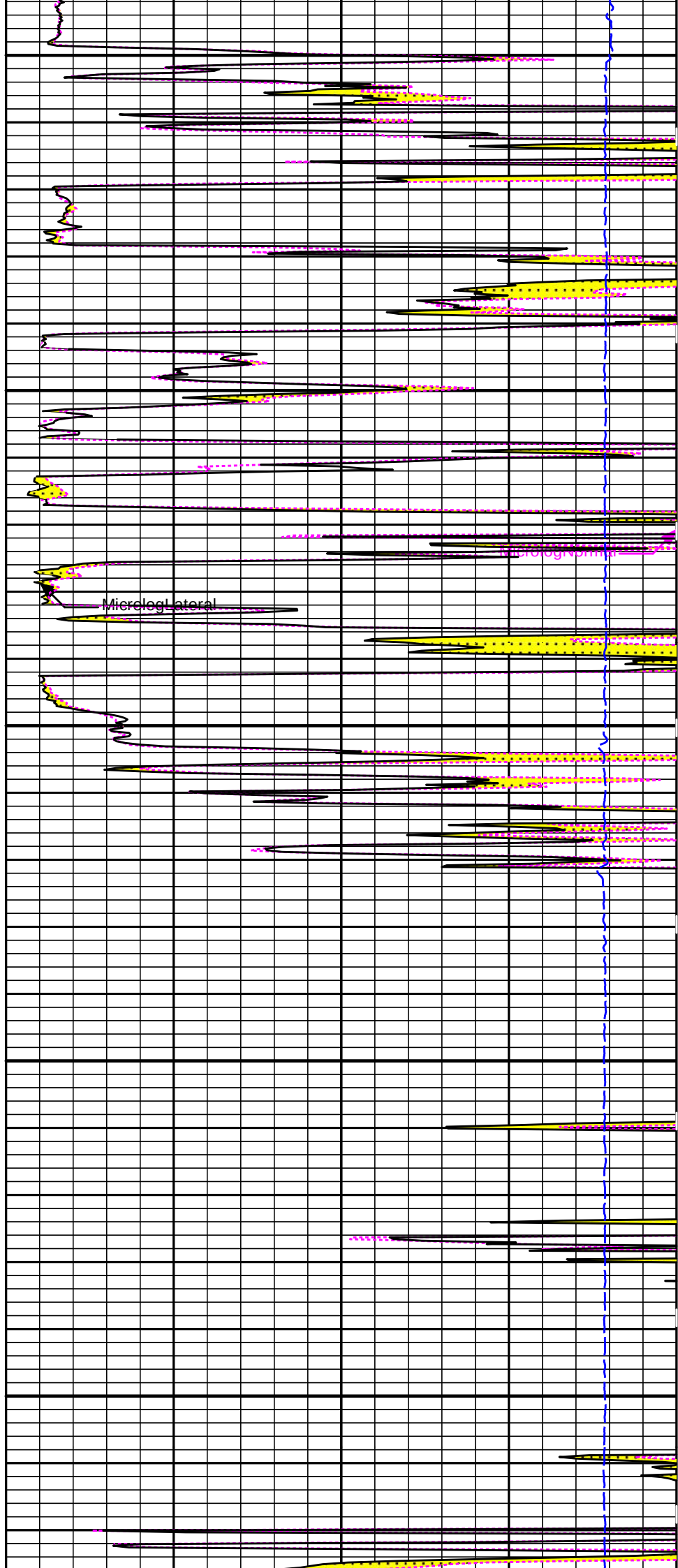
Microlog



5300

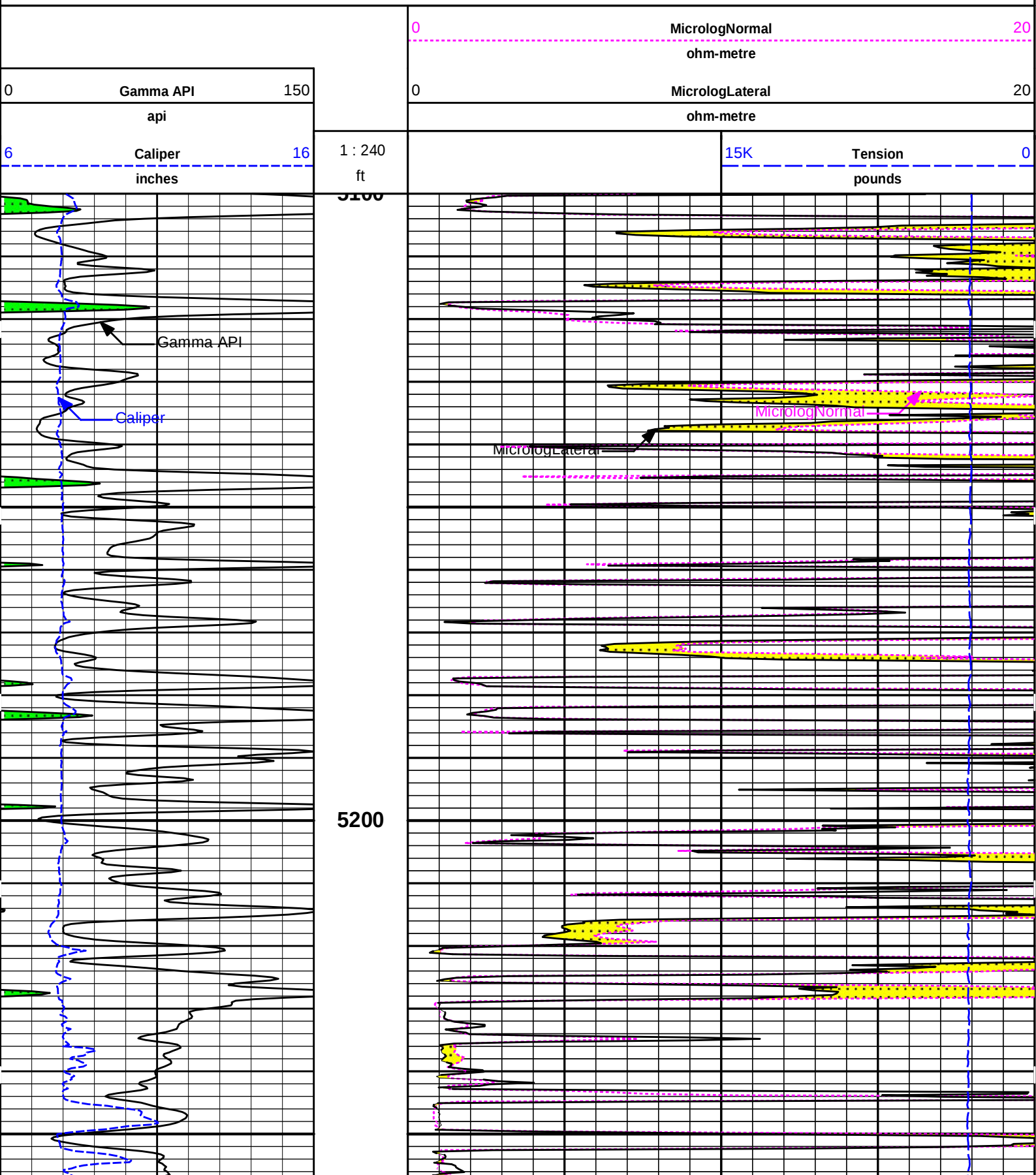
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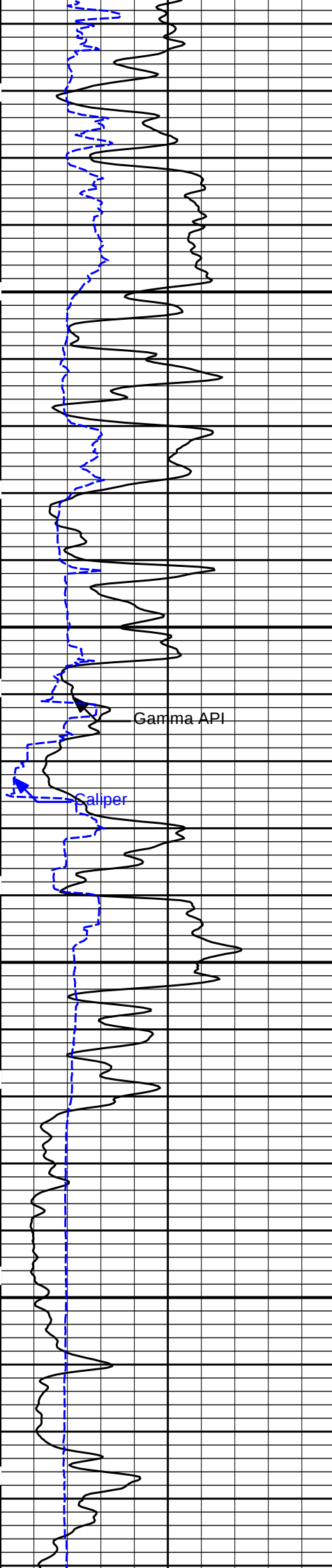
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REPEAT SECTION

REPEAT SECTION



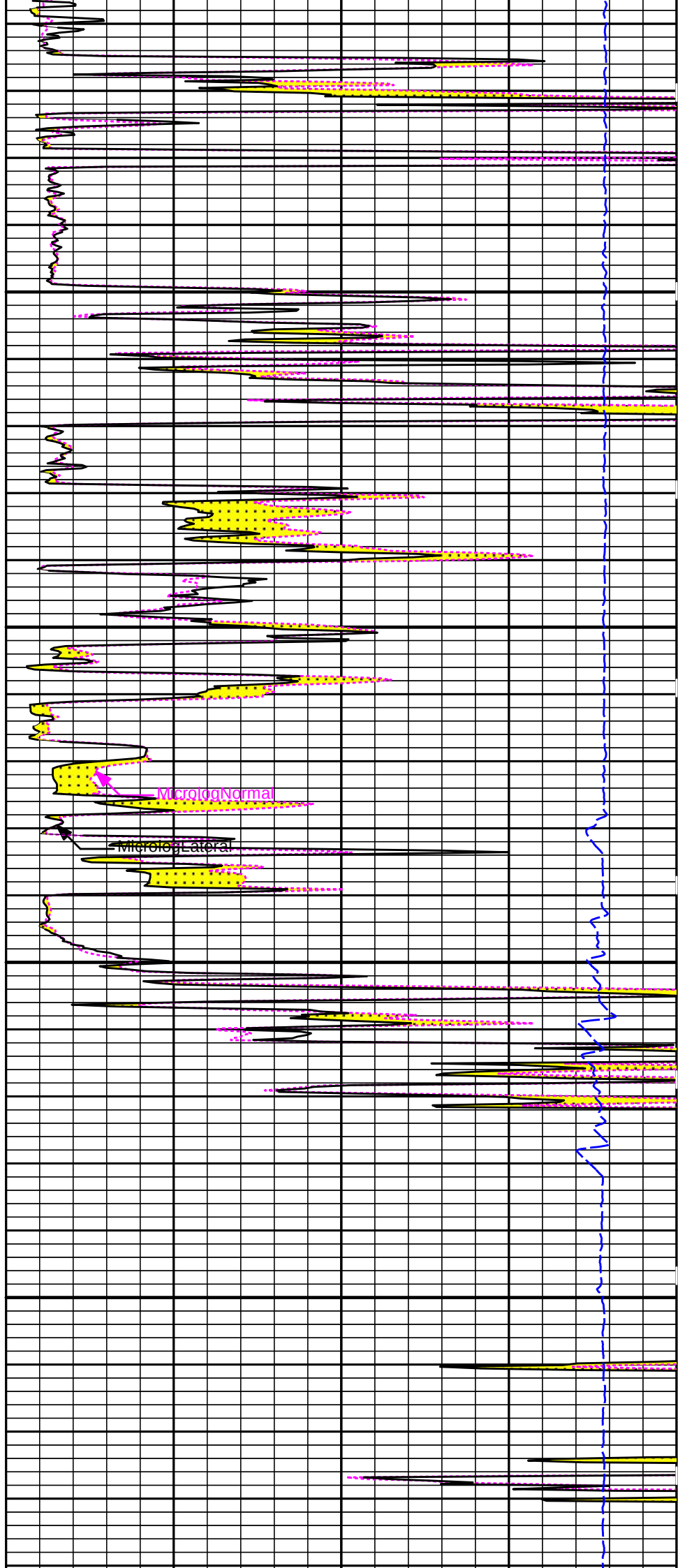


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Gamma API

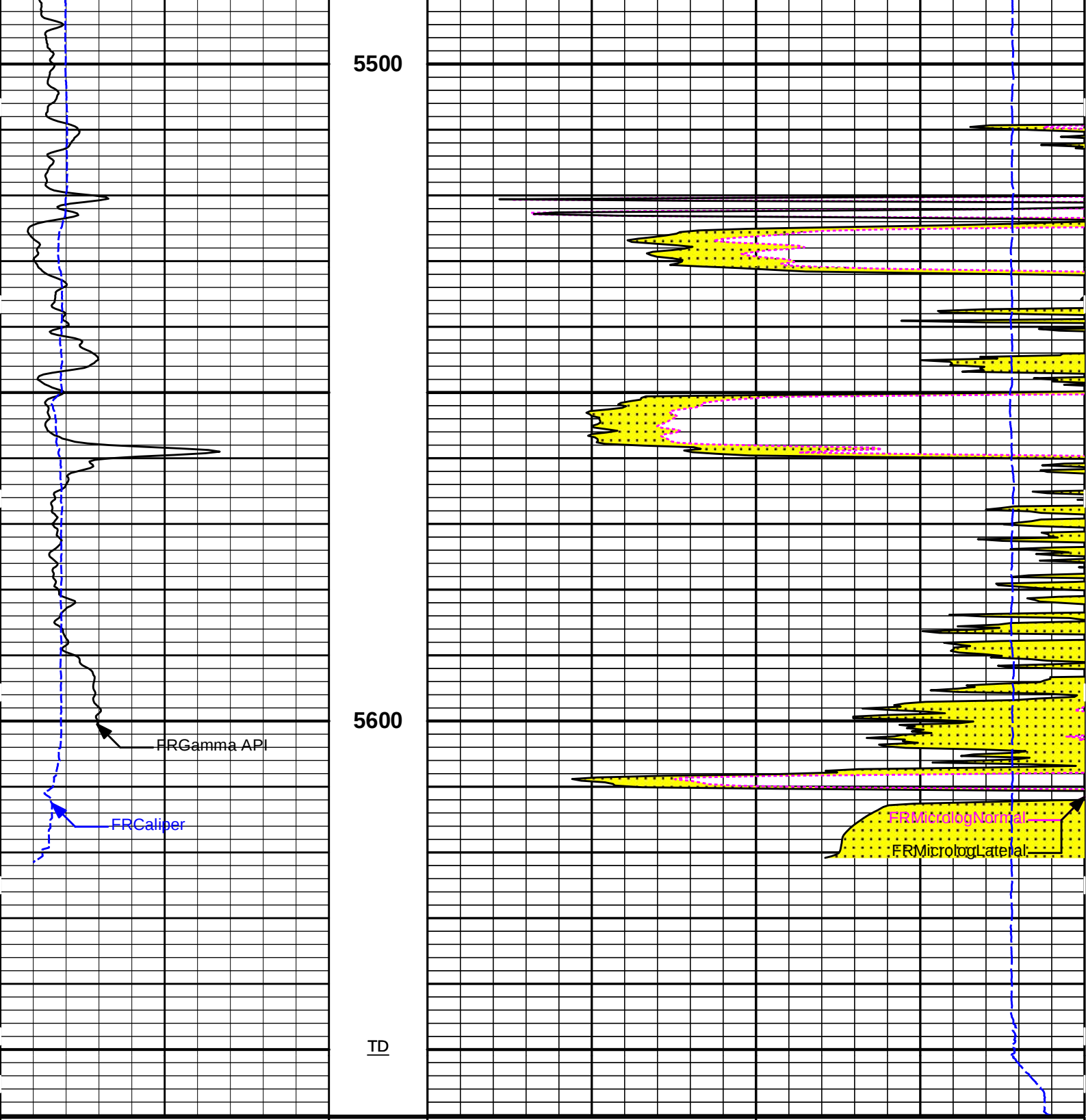
Caliper

5400



MicrologNormal

MicrologLateral



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

HALLIBURTON

Plot Time: 26-Nov-19 12:25:06
Plot Range: 5100 ft to 5660.08 ft
Data: BEREXCO_RISA\Well Based\DAQ-0001-002\
Plot File: \\-LOCAL-1\BEREXCO_RISA\0001 GTET-DSN-SDL-ACRT-BSAT\LOG\Microlog_IQ_5_main

REPEAT SECTION

REPEAT SECTION

HALLIBURTON

CALIBRATION REPORT

SURFACE TENSION SHOP CALIBRATION

Tool Name:Depth Panel - 00000001

Reference Calibration Date:30-Oct-18 22:31:05

Engineer:B. ERICKSON

Calibration Date:16-Nov-18 11:20:55

Software Version:WL INSITE R5.6.5 (Build 2)

Calibration Version:1

SURFACE TENSION LOAD CELL				
Measurement	Load Cell Value	Measurement	Calibrated	Units
Low	10493.43	-175.66	0.00	lbs
High	17060.91	7651.83	7830.00	lbs

DOWNHOLE TENSION SHOP CALIBRATION

Tool Name:RWCH - 11830866

Reference Calibration Date:11-Nov-19 16:13:06

Engineer:WHITLOCK

Calibration Date:15-Nov-19 00:45:14

Software Version:WL INSITE R6.2.1 (Build 2)

Calibration Version:1

DOWNHOLE LOAD CELL				
Measurement	Tool Value	Measurement	Calibrated	Units
Low	-314.45	96.42	0.00	lbs
High	8271.77	7130.34	1220.00	lbs

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:GTET - 11021139

Reference Calibration Date:06-Sep-19 10:50:12

Engineer:WHITLOCK

Calibration Date:23-Oct-19 09:55:22

Software Version:WL INSITE R6.2.7 (Build 7)

Calibration Version:1

Calibrator Source S/N: TB79
Calibrator API Reference:222.00 api
Equivalent Calibrator API Reference:225.9 api

Measurement	Measured	Calibrated	Units
Background	24.2	24.0	api
Background + Calibrator	251.8	249.9	api
Calibrator	227.6	225.9	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name:GTET - 11021139

Reference Calibration Date:23-Oct-19 09:55:22

Engineer:WHITLOCK

Calibration Date:25-Nov-19 11:11:45

Software Version:WL INSITE R6.2.1 (Build 2)

Calibration Version:1

Calibrator Source S/N: TB79
Calibrator API Reference:222.00 api
Equivalent Calibrator API Reference:225.9 api

Field Verification	Shop	Field	Units
Background	24.0	34.1	api
Background + Calibrator	249.9	258.9	api
Calibrator	225.9	224.8	api

Shop	Field	Difference	Tolerance
225.9	224.8	1.1	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name:

DSNT - 11660709

Reference Calibration Date:

22-Aug-19 13:18:54

Engineer:

WOLTEMATH

Calibration Date:

22-Aug-19 13:37:18

Software Version:

WL INSITE R6.2.7 (Build 7)

Calibration Version:

1

Logging Source S/N: DSN-436
Tank Serial Number: 10730320
Reference value assigned to Tank: 56.100
Snow Block S/N: 12156883
Calibration Tank Water Temperature: 75 degF
Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS			
Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	1.00429	1.00834	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):	0.2345	0.2358	0.0013	+/- 0.0020
Calibrated Ratio:	10.5172	10.5597	0.042	+/- 0.050

VERIFIER		
Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0822	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 - 11660709

Reference Calibration Date:

22-Aug-19 13:37:18

Engineer:

WHITLOCK

Calibration Date:

25-Nov-19 11:02:46

Software Version:

WL INSITE R6.2.1 (Build 2)

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 (decp):	0.0822	0.0702	-0.0120	+/- 0.0150

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

DENSITY CALIPER SHOP CALIBRATION

Tool Name:

SDLT - 12153526

Reference Calibration Date:

20-Nov-19 09:31:48

Engineer:

JORGE ORLANDO PEREZ

Calibration Date:

20-Nov-19 09:35:48

Software Version:

WL INSITE R6.2.1 (Build 2)

Calibration Version:

1

Host Tool Name:

DSNT - 11660709

CALIBRATION COEFFICIENTS			
Measurement	Previous Value	New Value	Control Limit On New Value

Pad Offset	-3605.33	-3584.36	-7000.00 - -1000.00
Pad Gain	0.0003960	0.0003959	0.0002000 - 0.0006000
Arm Offset	-2827.30	-2948.24	-5000.00 - 3000.00
Arm Gain	0.0005209	0.0005355	0.000300 - 0.000700
Arm Power	-0.000004751	-0.000005693	-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)	1.99	2.00	0.01	+/- 0.20
Medium Ring (in)	3.74	3.75	0.01	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.50	6.50	0.00	+/- 0.20
Medium Ring (in)	8.22	8.25	0.03	+/- 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 - 12153526	Reference Calibration Date:	20-Nov-19 09:35:48
Engineer:	JORGE ORLANDO PEREZ	Calibration Date:	20-Nov-19 09:37:22
Software Version:	WL INSITE R6.2.1 (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	8.26	0.01	+/- 0.15

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

BSAT FIELD CASING CHECK

Tool Name:	BSAT - 10939049	Calibration Date:	30-Mar-17 10:01:32
Engineer:	HARRIS		
Software Version:	WL INSITE R5.0.5 (Build 8)	Calibration Version:	1

Pre-Log Check	Check Depth	Shop	Field	Difference	Tolerance	Units
Delta-T Compensated	147.01	57.00	56.56	0.4400	1.00	uspf

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION

Tool Name:	ACRt Sonde - 11038385	Reference Calibration Date:	30-May-19 16:04:26
Engineer:	JORGE ORLANDO PEREZ	Calibration Date:	05-Nov-19 09:55:47
Software Version:	WL INSITE R6.2.7 (Build 7)	Calibration Version:	1
Host Tool Name:	ACRt Instrument - 11055059		

TYPICAL GAIN RANGE

Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.0414	1.05	0.95	1.0221	1.05	0.95	1.0092	1.05
A2 (50")	0.95	1.0432	1.05	0.95	1.0245	1.05	0.95	1.0149	1.05

A2 (50")	0.95	1.0333	1.05	0.95	1.0138	1.05	0.95	1.0022	1.05
A4 (17")	0.95	1.0308	1.05	0.95	1.0088	1.05	0.95	0.9987	1.05
A5 (10")	N/A	N/A	N/A	0.95	0.9989	1.05	0.95	0.9860	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9877	1.05	0.95	0.9773	1.05

SONDE OFFSET									
Subarray	R12KHz			R36KHz			R72KHz		
	(mmho/m)			(mmho/m)			(mmho/m)		
A1 (80")	0.473			-4.481			-6.397		
A2 (50")	-1.412			-4.346			-5.946		
A3 (29")	-14.376			-4.361			-4.024		
A4 (17")	-112.146			-34.207			-27.097		
A5 (10")	N/A			-83.563			-40.949		
A6 (6")	N/A			330.414			171.272		

TRANSMITTER CURRENT GAIN				R-MUD VERIFICATION			
Signal	Lower	R	Upper	Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
12K	0.6	0.85	1.3	Mud Cell	0.95	1.00	1.05
36K	1.0	1.35	2.0				
72K	1.0	1.61	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 - 11038385	Reference Calibration Date:	05-Nov-19 09:57:21
Engineer:	JORGE ORLANDO PEREZ	Calibration Date:	05-Nov-19 09:58:37
Software Version:	WL INSITE R6.2.7 (Build 7)	Calibration Version:	1
Host Tool Name:	ACRt Instrument - 11055059		

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	-0.007	> -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")	-0.003	> -0.500	Pass	-0.008	> -0.500	Pass	-0.026	> -0.500	Pass
A5 (10")	-0.011	> -0.500	Pass	-0.019	> -0.500	Pass	-0.040	> -0.500	Pass
A6 (6")	0.016	< 0.500	Pass	0.075	< 0.500	Pass	0.160	< 0.500	Pass

GAIN TOLERANCE					
R12KHz					
	Measured (mmho/m)	Last Month (mmho/m)	Difference (mmho/m)	Tolerance (mmho/m)	Pass/Fail
A1 (80")	-219473760.000	-219425552.000	48208.000	10971277.600	Pass
A2 (50")	-215830560.000	-215792896.000	37664.000	10789644.800	Pass
A3 (29")	-213188800.000	-213156672.000	32128.000	10657833.600	Pass
A4 (17")	-210171408.000	-210143248.000	28160.000	10507162.400	Pass
A5 (10")	-211005264.000	-210977200.000	28064.000	10548860.000	Pass
A6 (6")	-211325568.000	-211296448.000	29120.000	10564822.400	Pass
R36KHz					
	Measured (mmho/m)	Last Month (mmho/m)	Difference (mmho/m)	Tolerance (mmho/m)	Pass/Fail
A1 (80")	55543524.000	55511756.000	31768.000	2775587.800	Pass
A2 (50")	56455604.000	56427400.000	28204.000	2821370.000	Pass
A3 (29")	48736512.000	48706152.000	30360.000	2435307.600	Pass
A4 (17")	45194180.000	45164596.000	29584.000	2258229.800	Pass
A5 (10")	47123592.000	47092416.000	31176.000	2354620.800	Pass
A6 (6")	46165712.000	46133840.000	31872.000	2306692.000	Pass
R72KHz					
	Measured (mmho/m)	Last Month (mmho/m)	Difference (mmho/m)	Tolerance (mmho/m)	Pass/Fail
A1 (80")	-91653040.000	-91648536.000	4504.000	4582426.800	Pass
A2 (50")	-88118408.000	-88114064.000	4344.000	4405703.200	Pass
A3 (29")	-88015192.000	-88009136.000	6056.000	4400456.800	Pass
A4 (17")	-82685272.000	-82674544.000	10728.000	4133727.200	Pass
A5 (10")	-81410616.000	-81401488.000	9128.000	4070074.400	Pass
A6 (6")	-83042264.000	-83029176.000	13088.000	4151458.800	Pass
PASS/FAIL SUMMARY					
Std Deviation Verification				Pass	
Average Verification				Pass	
Gain Tolerance Verification				Pass	

MICRO LOG SHOP CALIBRATION					
Tool Name:	Microlog Pad - 12153526			Reference Calibration Date:	17-Oct-19 14:19:35
Engineer:	WHITLOCK			Calibration Date:	29-Oct-19 10:59:37
Software Version:	WL INSITE R6.2.7 (Build 7)			Calibration Version:	1
Host Tool Name:	DSNT - 11660709				

CALIBRATION COEFFICIENT SUMMARY					
Measurement	Micro Log Normal		Micro Log Lateral		Units
	Measured	Calibrated	Measured	Calibrated	
Tool Zero	-0.11	-0.13	-0.01	-0.01	ohmm
Calibration Point #1	0.01	0.00	-0.00	0.00	ohmm
Calibration Point #2	19.99	20.00	20.15	20.00	ohmm
Internal Reference	19.86	19.87	20.15	20.00	ohmm
Measurement	Micro Log Normal Tool Value		Micro Log Lateral Tool Value		Units
Tool Zero	-0.04		0.10		V
Calibration Point #1	33.12		1.98		V
Calibration Point #2	5314.83		6940.26		V
Internal Reference	5280.85		6939.32		V

MICRO LOG FIELD CHECK					
Tool Name:	Microlog Pad - 12153526			Reference Calibration Date:	29-Oct-19 10:59:37

CALIBRATION BLOCK SUMMARY				
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.687	1.687	-0.000	+/- 0.015
Pe	2.544	2.560	0.016	+/- 0.150
ALUMINUM				

Density (g/cc)	2.578	2.580	0.002	+/- 0.01500
Pe	3.139	3.134	-0.005	+/- 0.150

TOOL SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	0.0025	+/- 0.0110	-0.0001	+/- 0.0140
Magnesium Block	-0.0003	+/- 0.0110	-0.0005	+/- 0.0140
Aluminum Block	0.0009	+/- 0.0110	-0.0002	+/- 0.0140
Resolution	8.90	6.00 - 11.50	9.09	6.00 - 11.50
Internal Verifier(B+D+P+L)	1636	1200 - 2700	988	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 - 11284007	Reference Calibration Date:	23-Aug-19 12:44:10
Engineer:	WHITLOCK	Calibration Date:	25-Nov-19 11:09:27
Software Version:	WL INSITE R6.2.1 (Build 2)	Calibration Version:	1

Pad Temperature: 57.6 degF				
DENSITY FIELD CALIBRATION SUMMARY				
Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1636.080	1625.496	-10.584	16.254
Far (B+D+P+L) cps	988.013	990.843	2.830	16.854
Near Resolution	8.90	9.24	0.340	0.50
Far Resolution	9.09	9.74	0.650	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-00000001						
Tension Zero	0.00	-----	-----	0.00	-----	lbs
Tension Cal	7830.00	-----	-----	0.00	-----	lbs
RWCH-11830866						
DH Tension Zero	0.00	-----	-----	0.00	-----	lbs
DH Tension Cal	1220.00	-----	-----	0.00	-----	lbs
GTET-11021139						
Gamma Ray Calibrator	225.9	224.8	-----	1.1	+/- 9.00	api
DSNT-11660709						
Snow-Block Porosity	0.0822	0.0702	-----	0.0120	+/- 0.0150	decp
SDLT-12153526						
Pad Extension	3.75	3.75	-----	0.00	+/-0.10	in

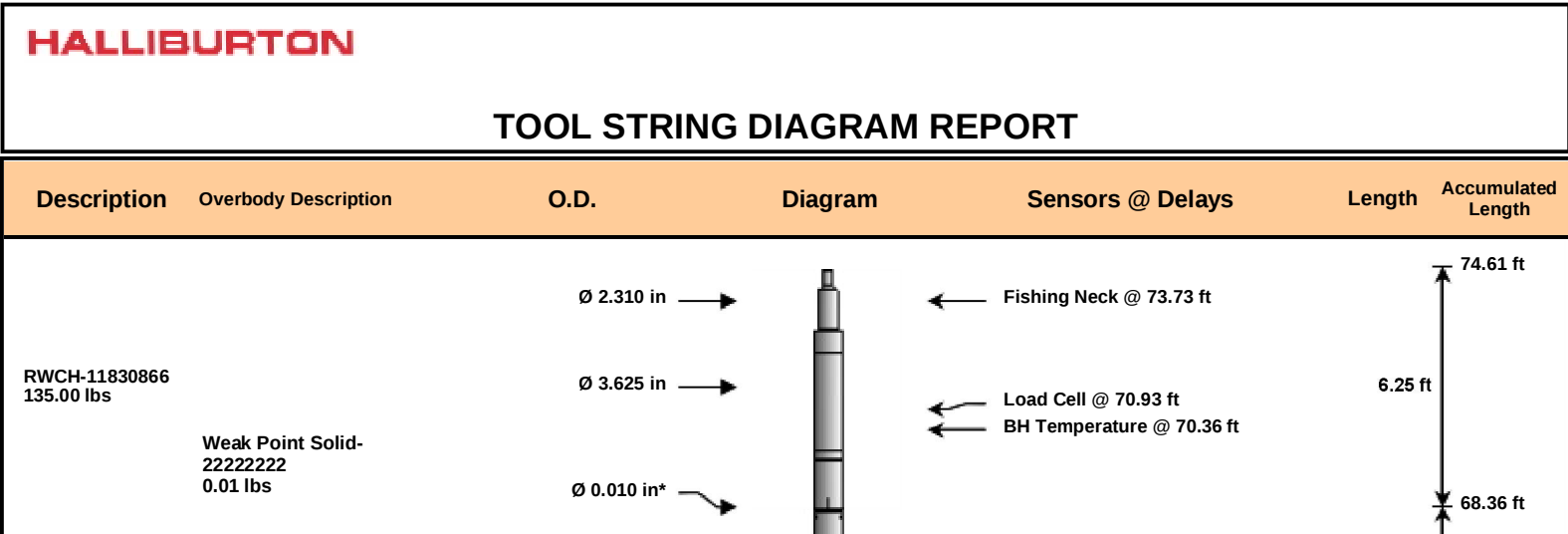
Ring Diameter	8.25	8.26	-----	-0.01	+/-0.15	in
ACRt Sonde-11038385						
Mud Cell	1.00	-----	-----	0	-----	ohm-m
Microlog Pad-12153526						
MicroLog Normal	19.87	19.83	-----	0.04	+/-0.80	ohmm
MicroLog Lateral	20.00	19.96	-----	0.04	+/-0.80	ohmm
SDLT Pad-11284007						
Near(B+D+P+L)	1636.080	1625.496	-----	10.584	+/-16.254	cps
Far(B+D+P+L)	988.013	990.843	-----	-2.830	+/-16.854	cps
Data: BEREXCO_RISA\0001 GTET-DSN-SDL-ACRT-BSAT\IDLE						
Date: 26-Nov-19 09:05:23						

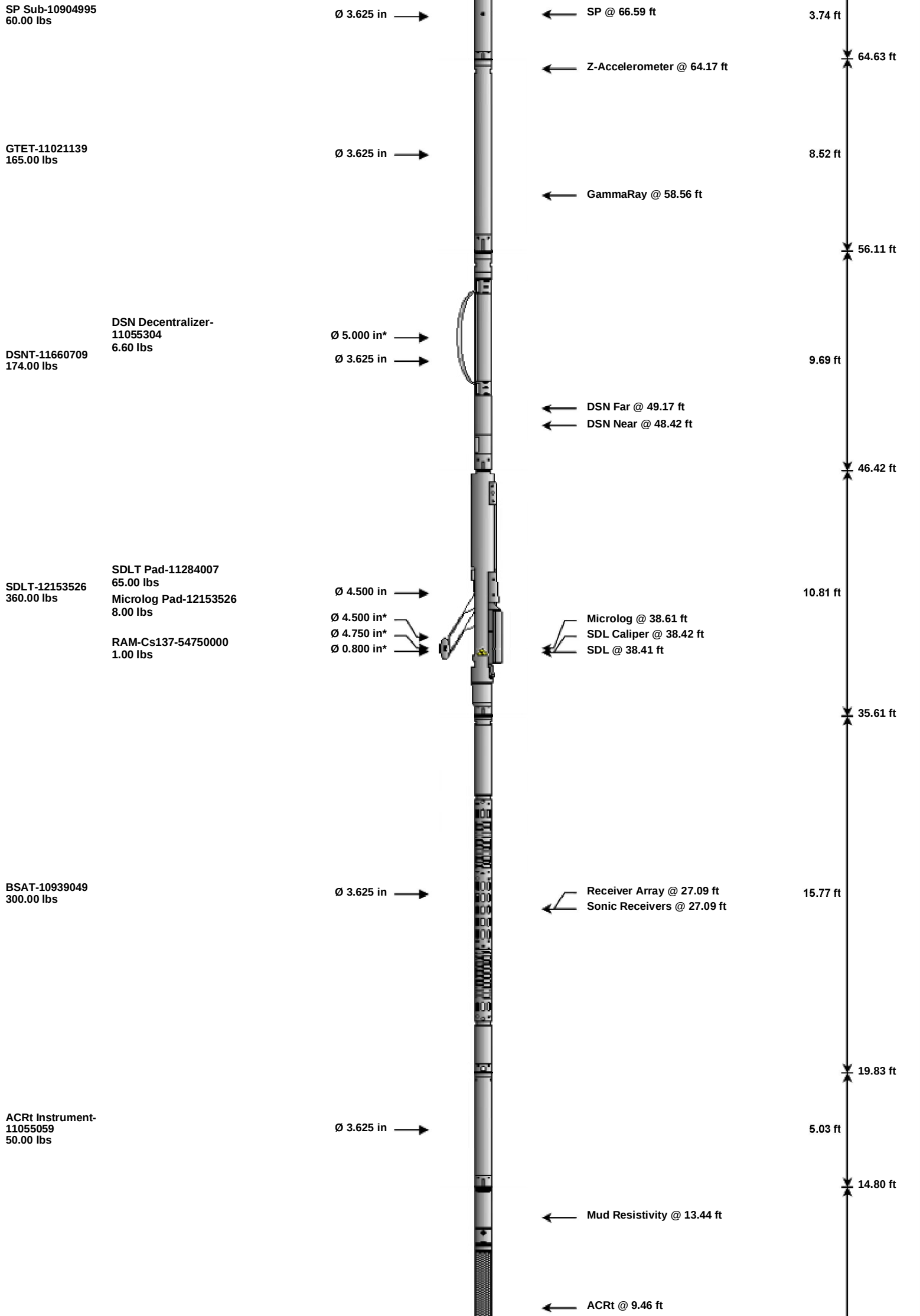


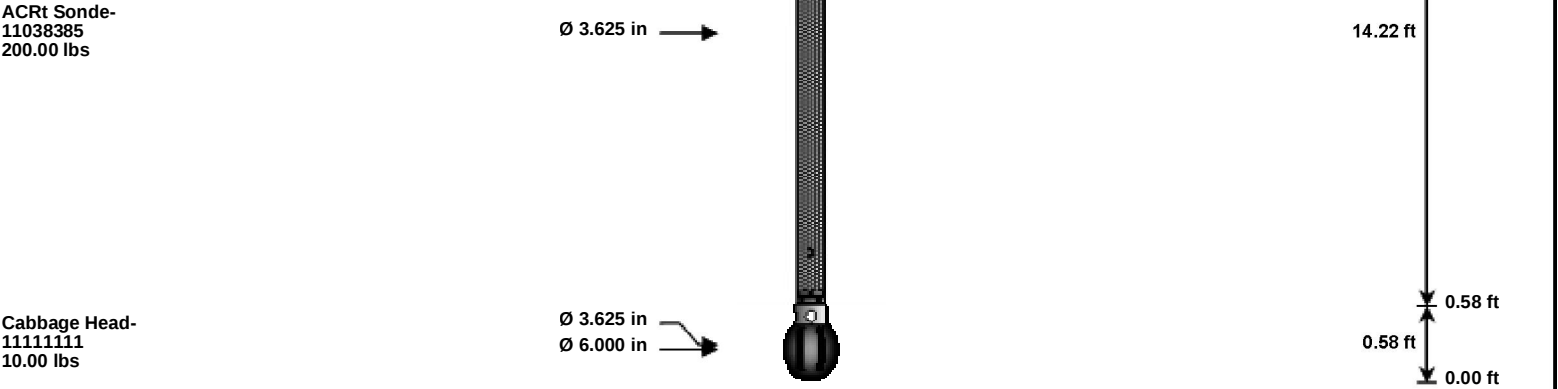
PARAMETERS REPORT

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	1.050	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	5650.00	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	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	

GTET	BHSM	Borehole Size Source Tool	SDLT
DSNT	DNOK	Process DSN?	Yes
DSNT	DEOK	Process DSN EVR?	No
DSNT	NLIT	Neutron Lithology	Limestone
DSNT	DNSO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.250 in
DSNT	DNTT	Temperature Correction Type	None
DSNT	DPRS	DSN Pressure Correction Type	None
DSNT	SHCO	View More Correction Options	No
DSNT	UTVD	Use TVD for Gradient Corrections?	No
DSNT	LHWT	Logging Horizontal Water Tank?	No
DSNT	UCLA	Classic Neutron Parameter utilized?	No
DSNT	BHSM	Borehole Size Source Tool	SDLT
SDLT	CLOK	Process Caliper Outputs?	Yes
Microlog Pad	MLOK	Process MicroLog Outputs?	Yes
SDLT Pad	DNOK	Process Density?	Yes
SDLT Pad	DNOK	Process Density EVR?	No
SDLT Pad	CB	Logging Calibration Blocks?	No
SDLT Pad	SPVT	SDLT Pad Temperature Valid?	Yes
SDLT Pad	DTWN	Disable temperature warning	No
SDLT Pad	DMA	Formation Density Matrix	2.710 g/cc
SDLT Pad	DFL	Formation Density Fluid	1.000 g/cc
SDLT Pad	BHSM	Borehole Size Source Tool	SDLT
BSAT	MBOK	Compute BCAS Results?	Yes
BSAT	FLLO	Frequency Filter Low Pass Value?	5000 Hz
BSAT	FLHI	Frequency Filter High Pass Value?	27000 Hz
BSAT	DTFL	Delta -T Pore Fluid	189.00 uspf
BSAT	DTMT	Delta -T Matrix Type	Limestone 47.6
BSAT	DTSH	Delta -T Shale	100.00 uspf
BSAT	SPEQ	Acoustic Porosity Equation	Wylie
ACRt Sonde	RTOK	Process ACRT?	Yes
ACRt Sonde	MNSO	Minimum Tool Standoff	1.50 in
ACRt Sonde	TCS1	Temperature Correction Source	FP Lwr & FP Upr
ACRt Sonde	TPOS	Tool Position	Free Hanging
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







Mnemonic		Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
RWCH	Releasable Wireline Cable Head		11830866	135.00	6.25	68.36	300.00
WPSS	Weak Point Solid		22222222	0.01	0.01	*	68.36 300.00
SP	SP Sub		10904995	60.00	3.74	64.63	300.00
GTET	Gamma Telemetry Tool		11021139	165.00	8.52	56.11	60.00
DSNT	Dual Spaced Neutron		11660709	174.00	9.69	46.42	60.00
DCNT	DSN Decentralizer		11055304	6.60	5.13	*	49.75 300.00
SDLT	Spectral Density Tool		12153526	360.00	10.81	35.61	60.00
SDLP	Density Insite Pad		11284007	65.00	2.55	*	37.82 60.00
Cs137	Logging Source, SDLT-I, 1.78 Ci - Cs137		54750000	1.00	0.80	*	38.05 300.00
MICP	Microlog Pad		12153526	8.00	1.00	*	38.11 60.00
BSAT	Borehole Sonic Array Tool		10939049	300.00	15.77	19.83	60.00
ACRt	Array Compensated True Resistivity Instrument Section		11055059	50.00	5.03	14.80	120.00
ACRt	Array Compensated True Resistivity Sonde Section		11038385	200.00	14.22	0.58	120.00
CBHD	Cabbage Head		11111111	10.00	0.58	0.00	300.00
Total				1,534.61	74.61		
* Not included in Total Length and Length Accumulation.							
Data: BEREXCO_RISA\0001 GTET-DSN-SDL-ACRT-BSAT\IDLE							
Date: 26-Nov-19 09:07:50							