

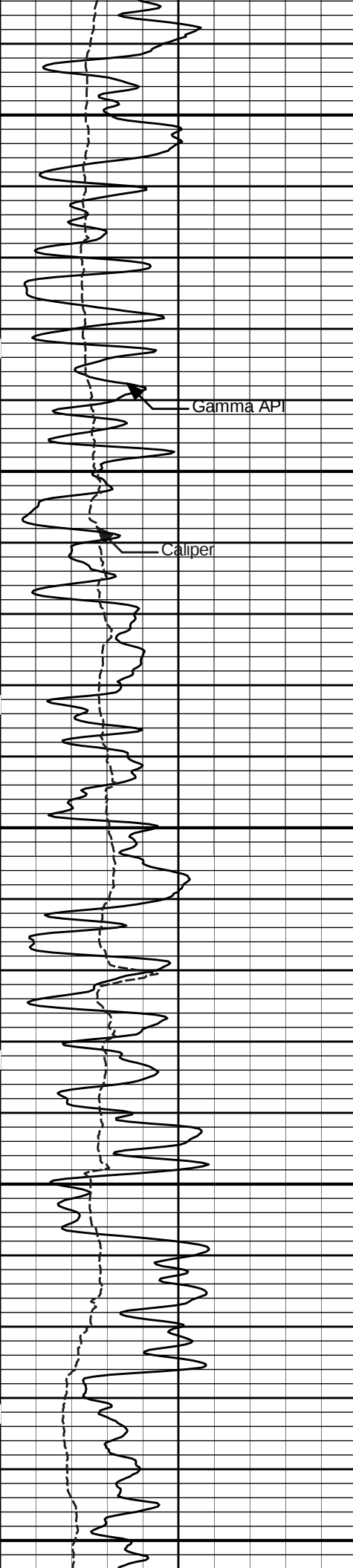
MICROLOG

Fold here

LOGGING DATA

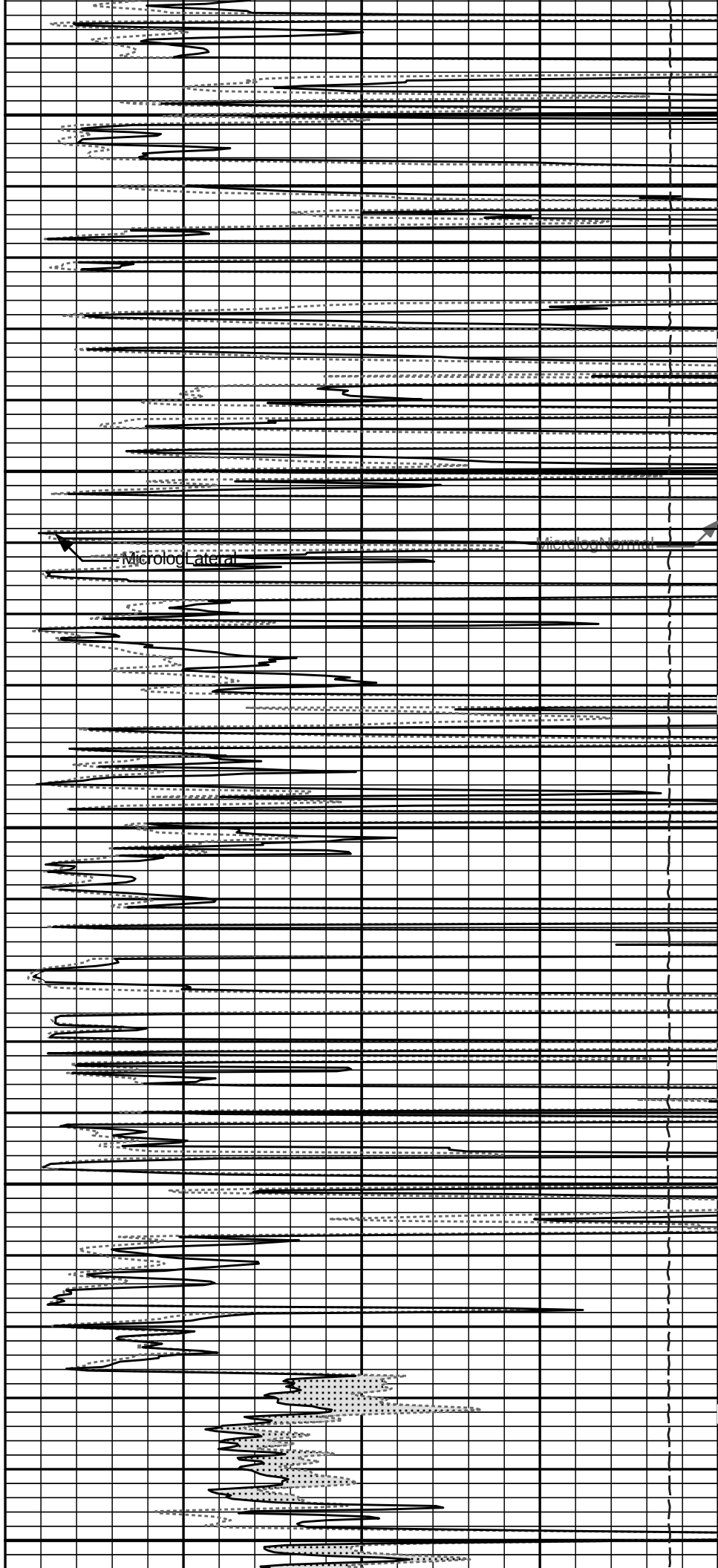
GENERAL	GAMMA	ACQUSTIC	PERCUTAN	NEUTRON
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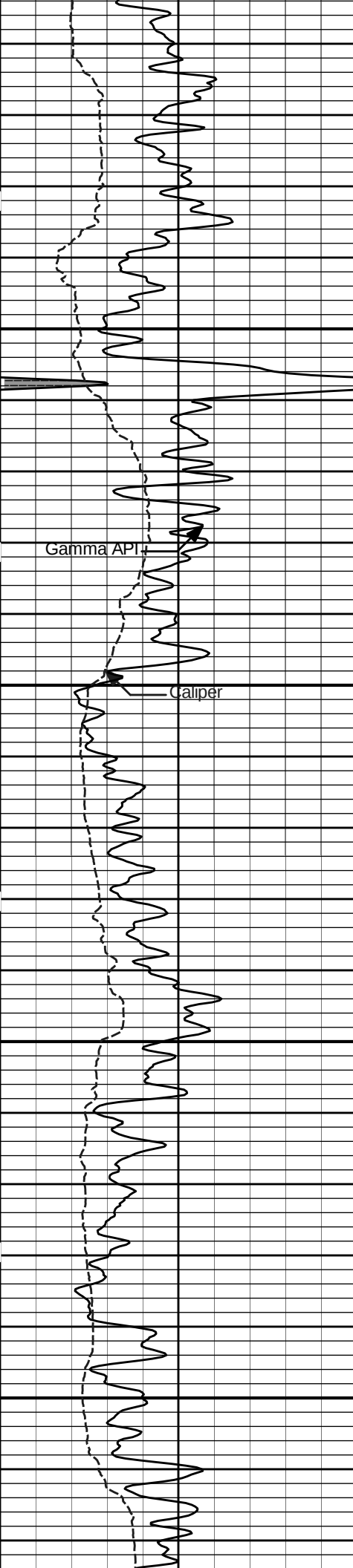
[illegible]



2400

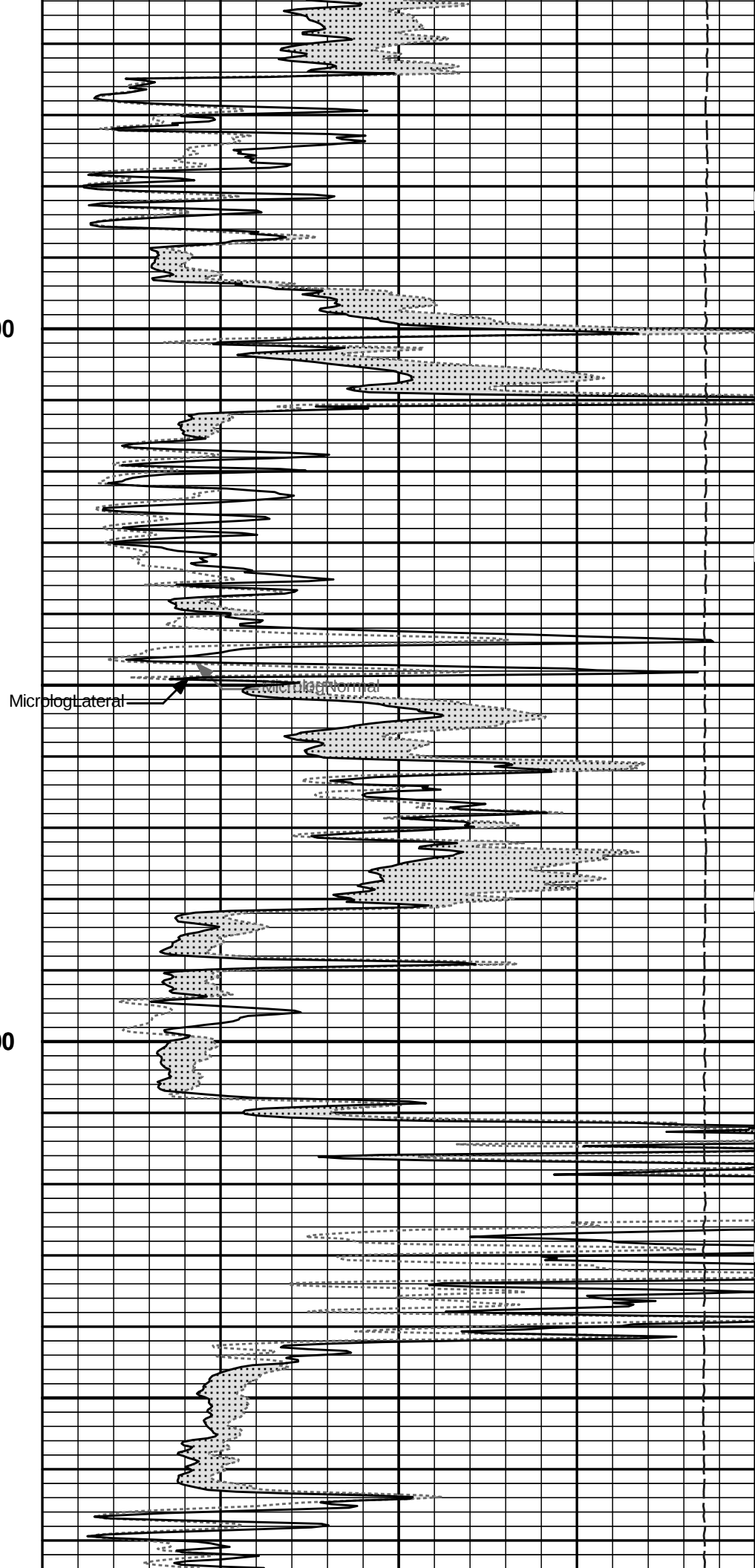
2500

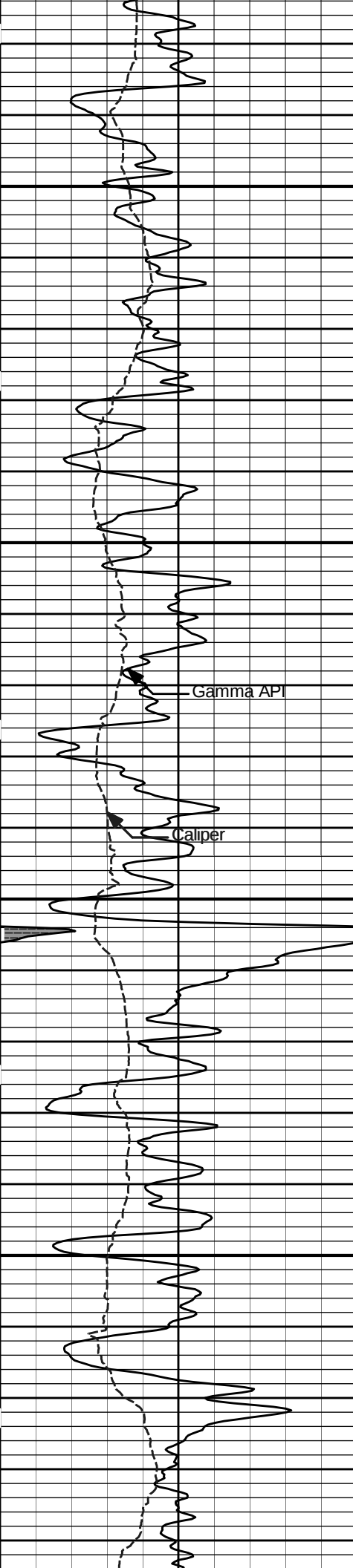




2600

2700



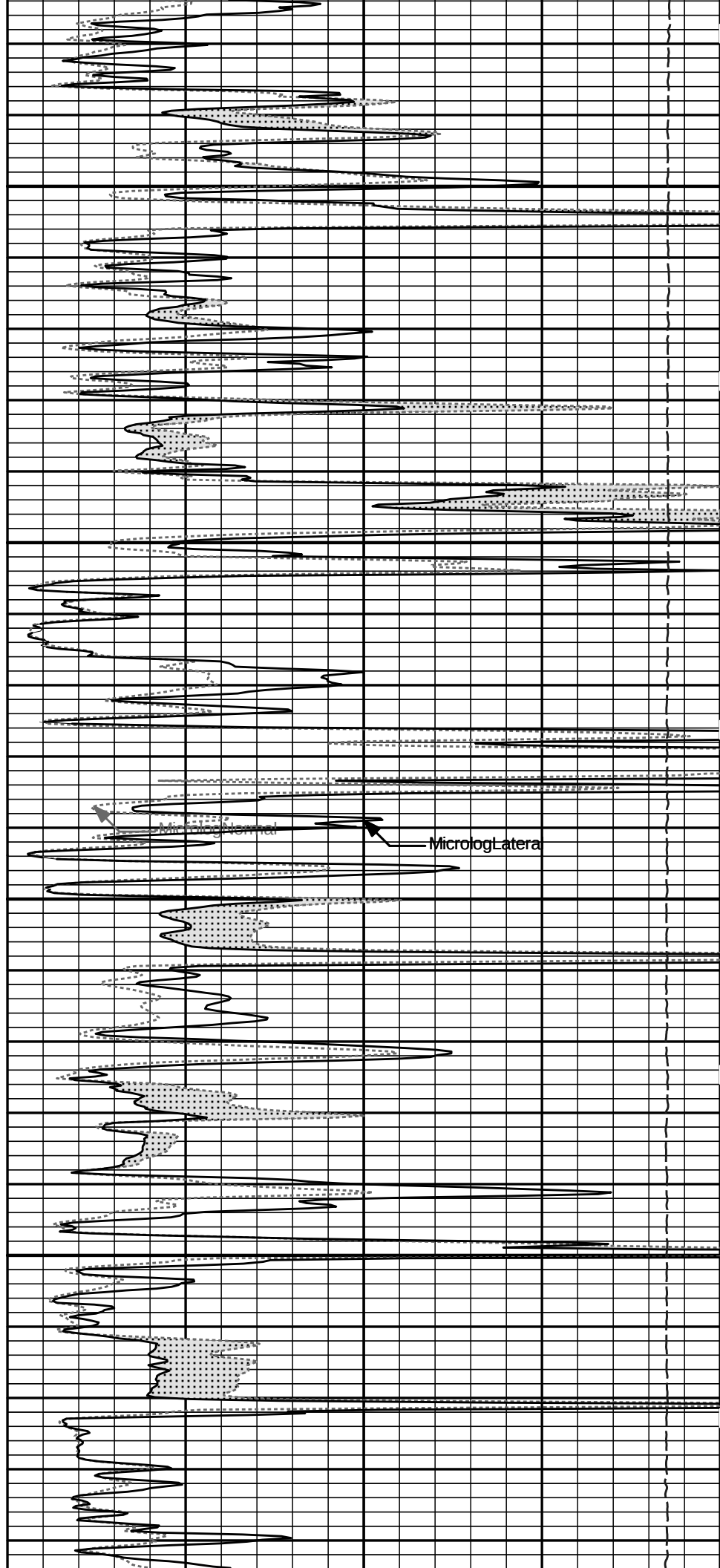


2800

Gamma API

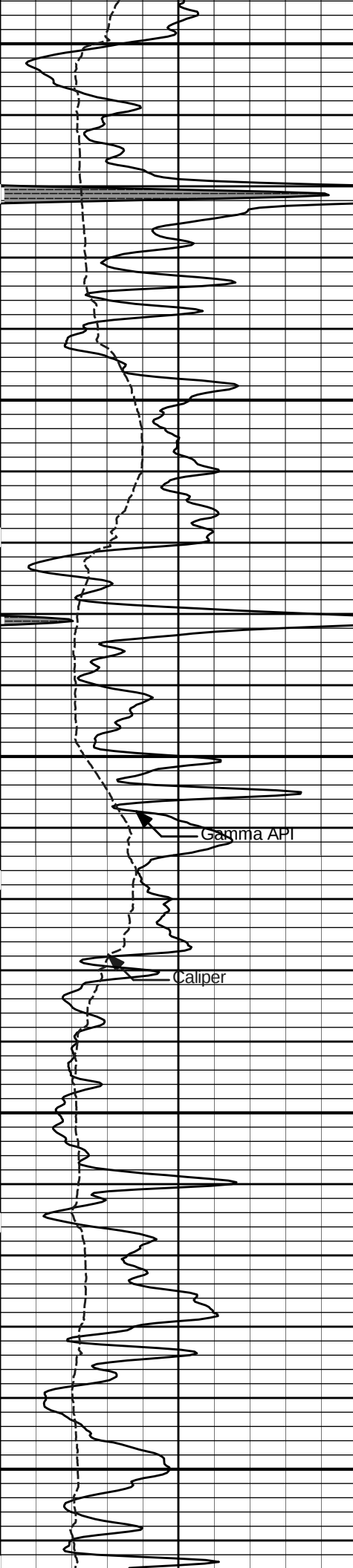
Caliper

2900



Microlog Lateral

Microlog Vertical



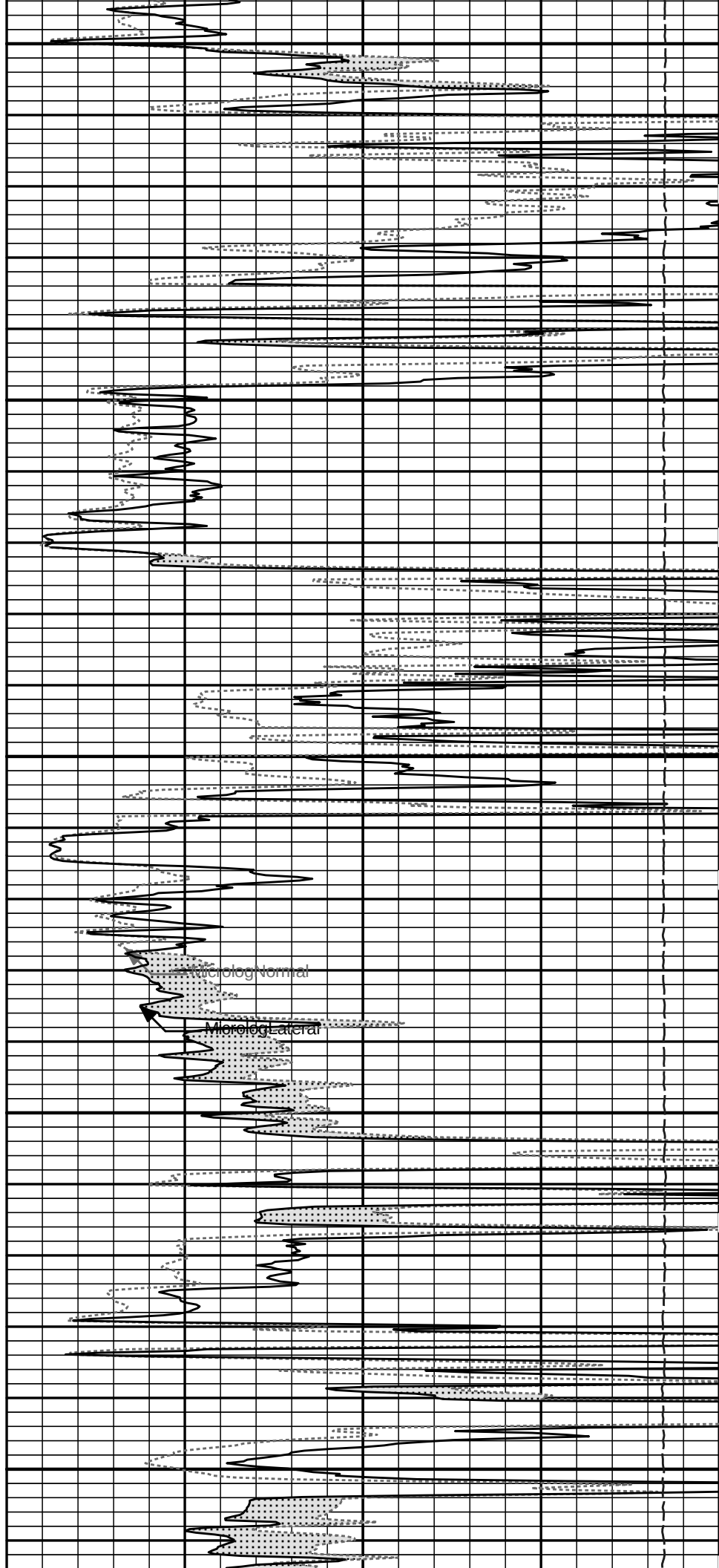
3000

3100

3200

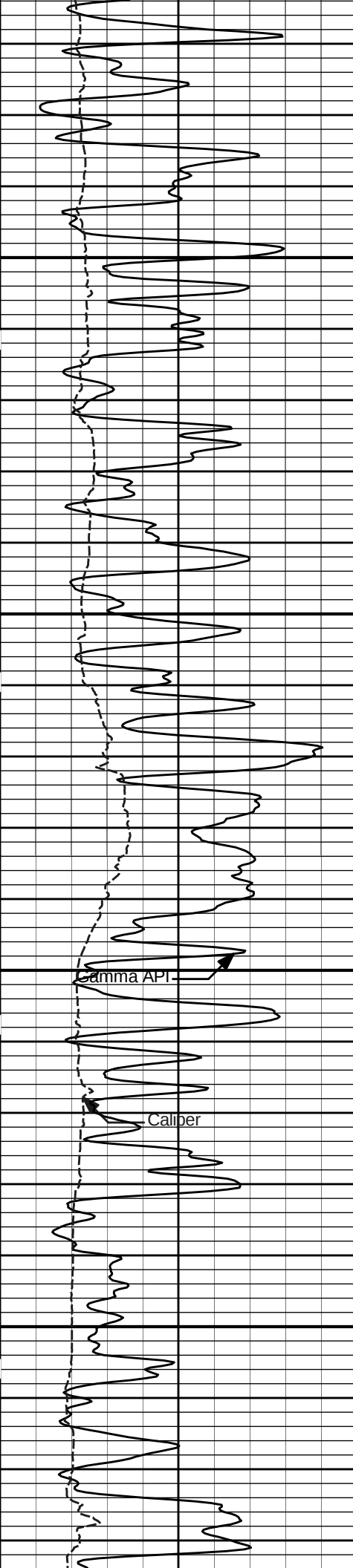
Gamma API

Caliper



Microlog Normal

Microlog Lateral

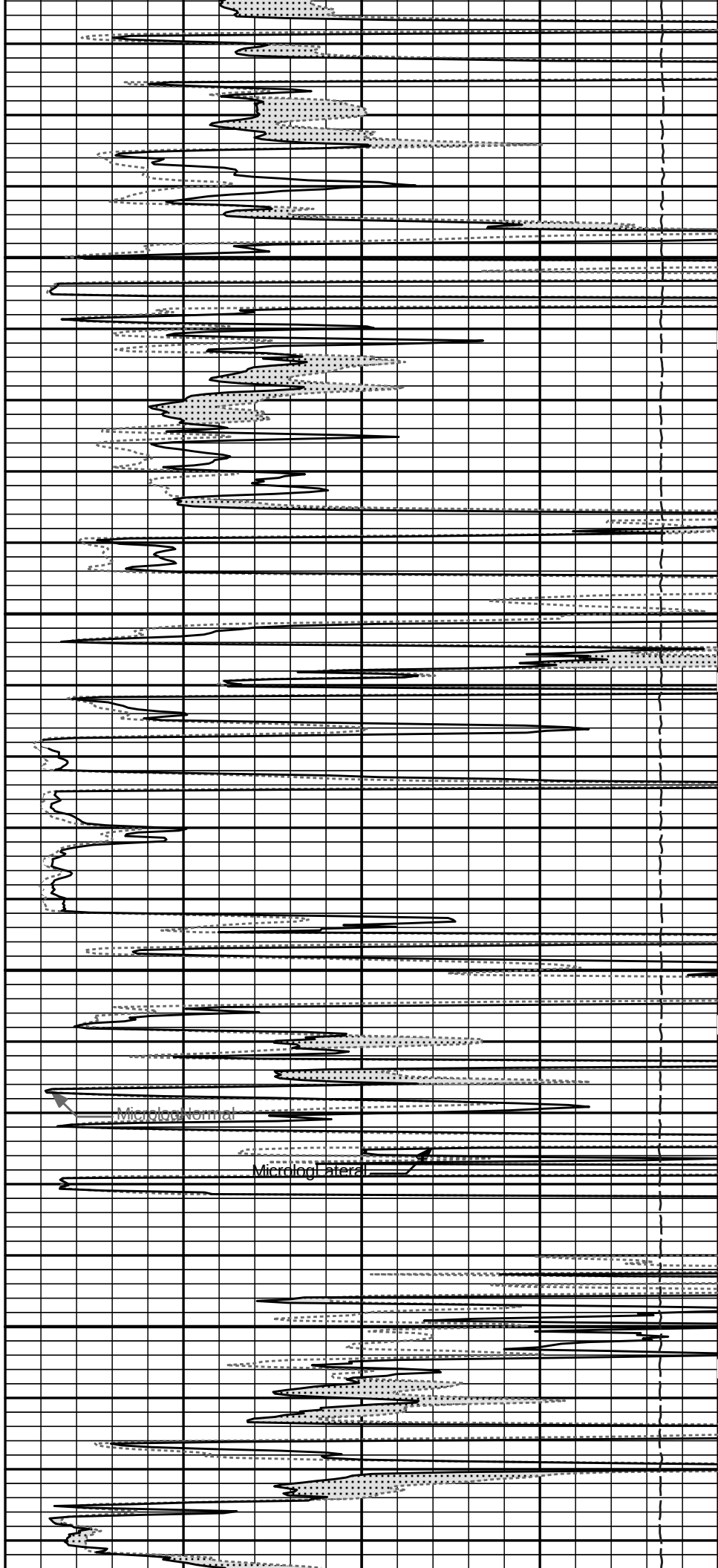


3300

Gamma API

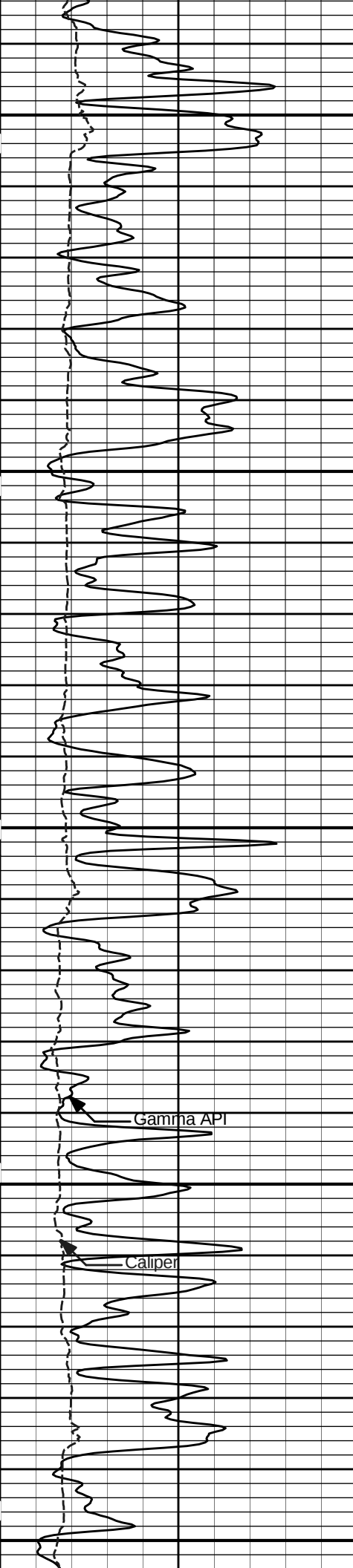
Caliper

3400



Microlog

Microlog lateral

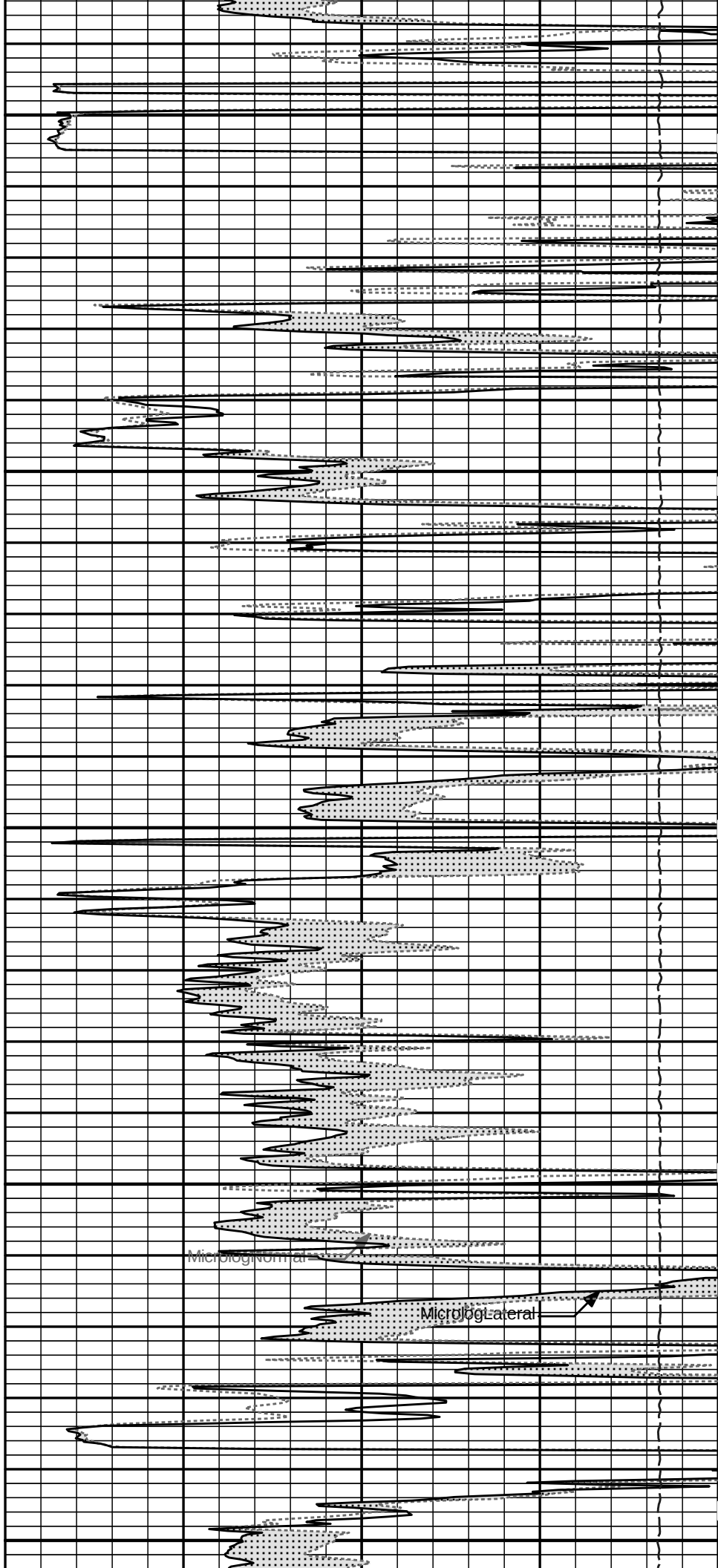


3500

3600

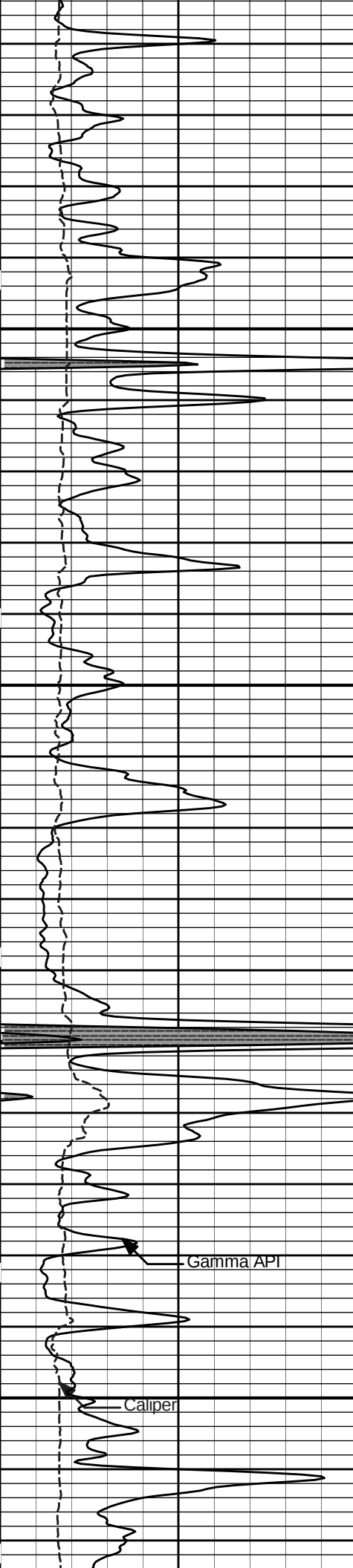
Gamma API

Caliper



Microlog

Microlog Lateral

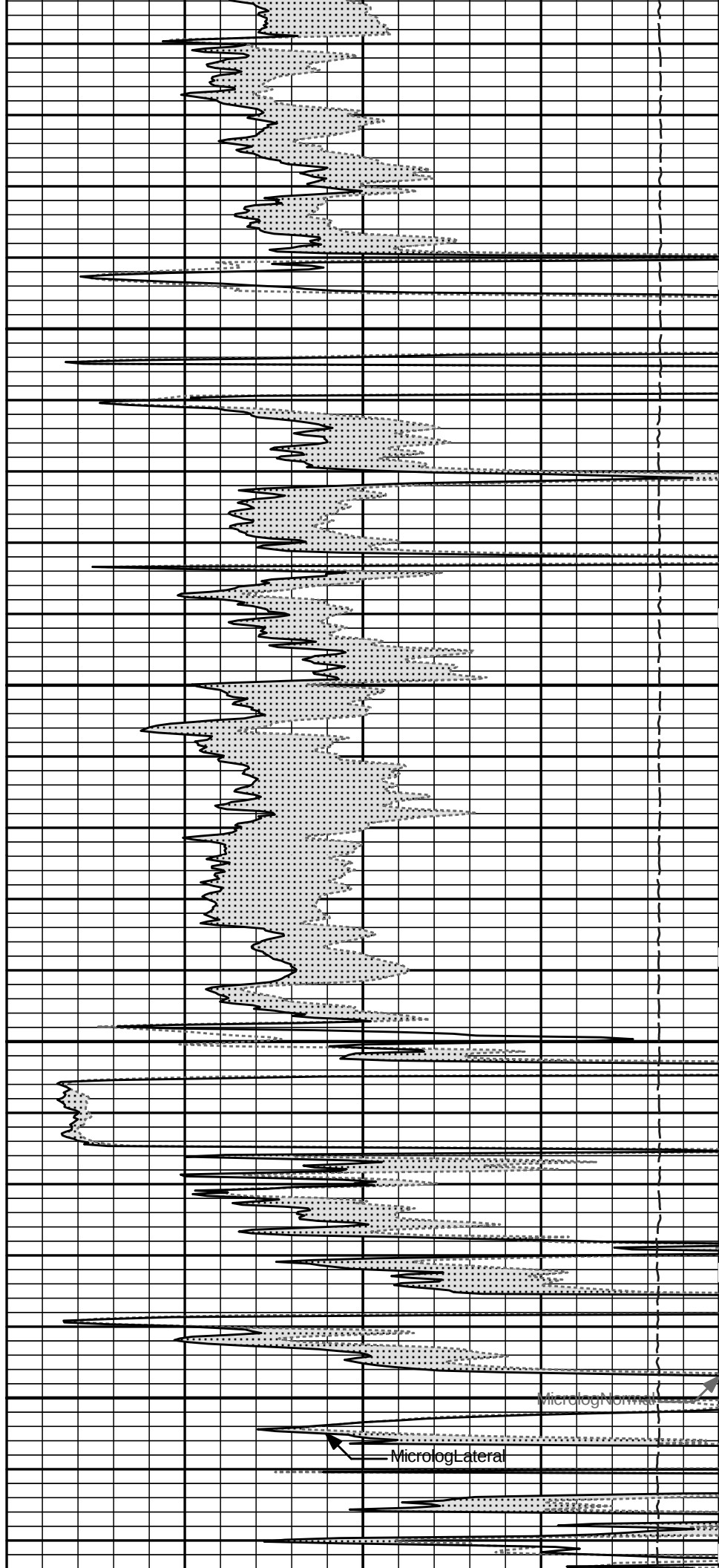


3700

3800

Gamma API

Caliper



MicrologNormal

MicrologLateral

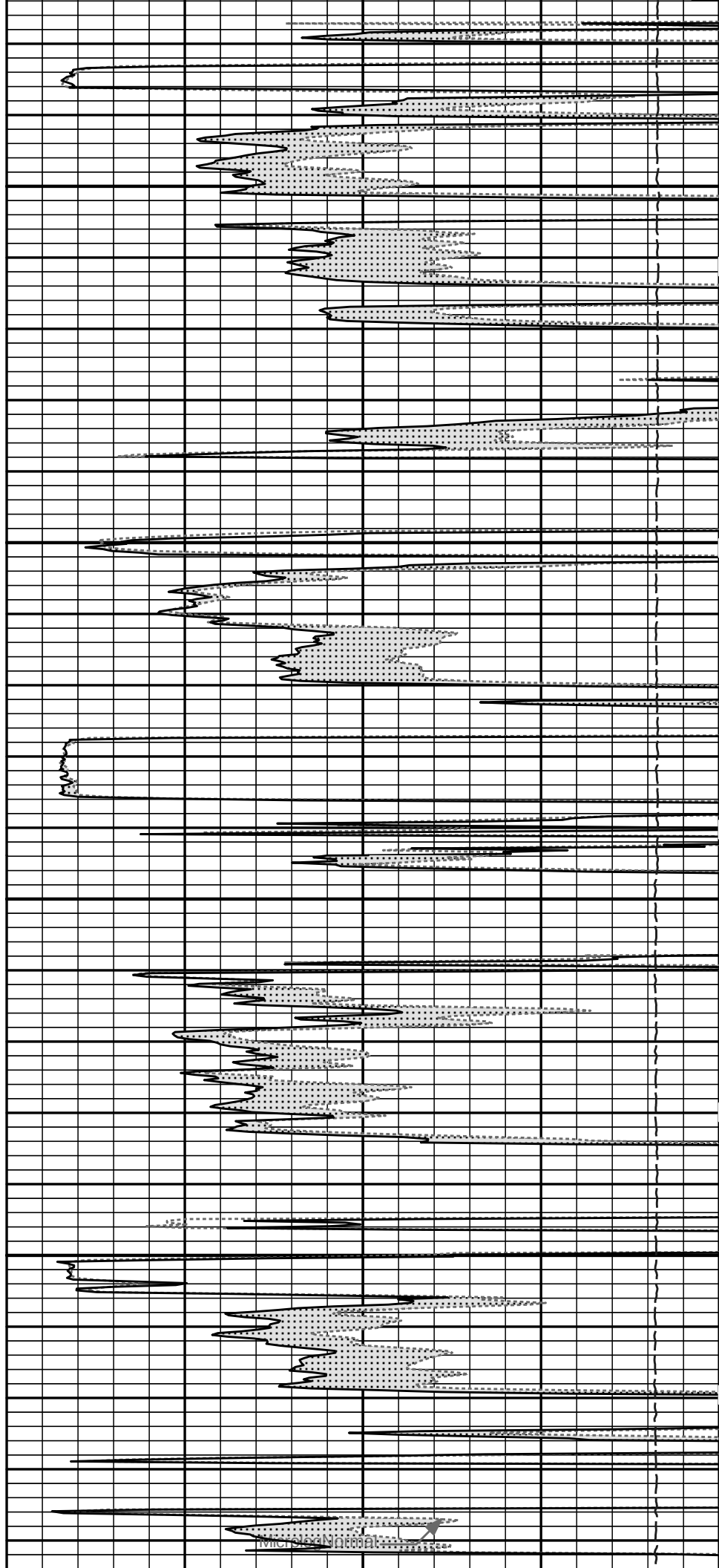


3900

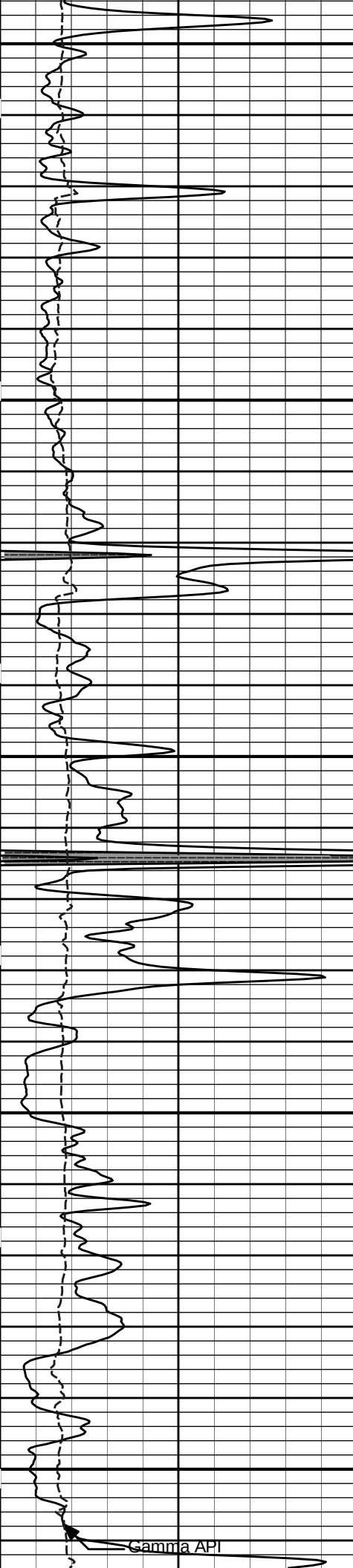
4000

Gamma API

Caliper



MicroSeal

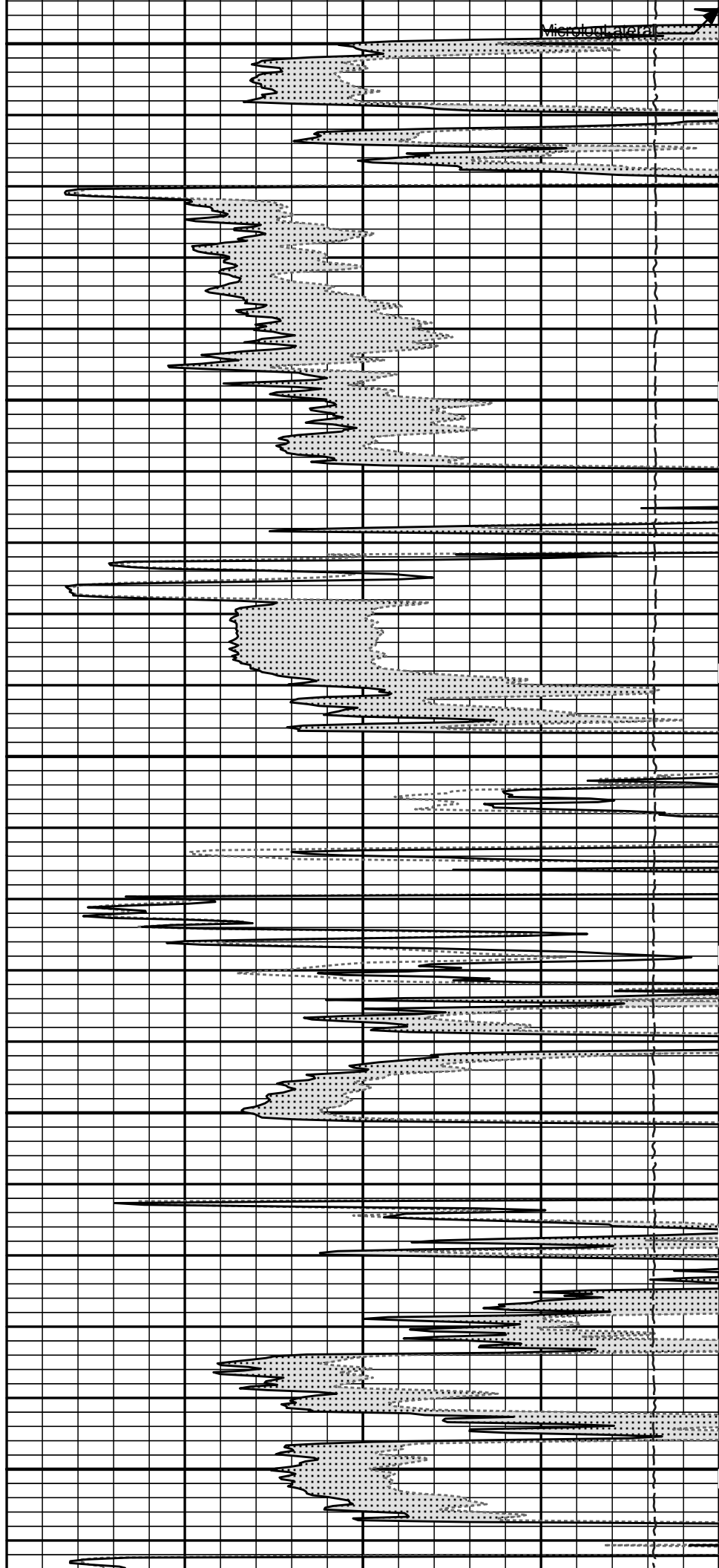


4100

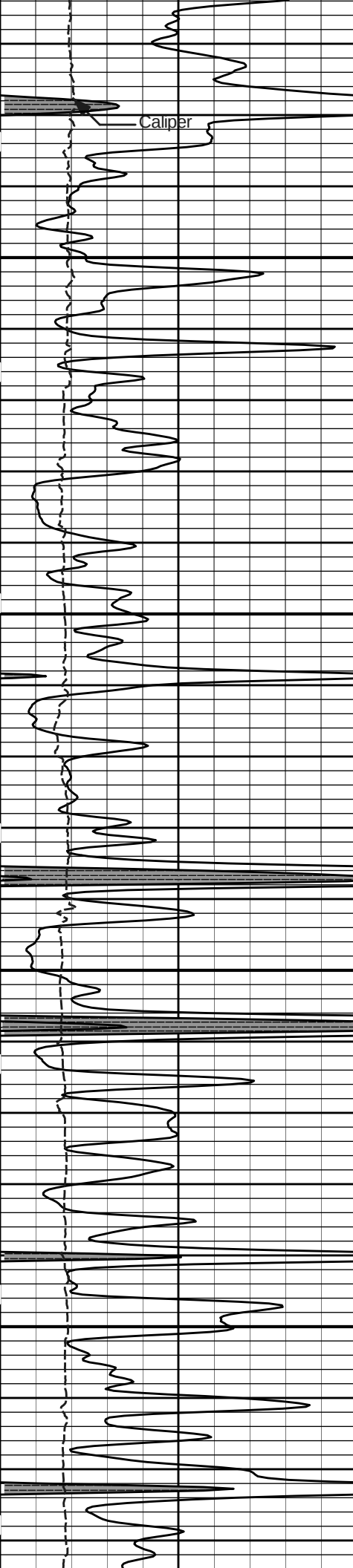
4200

4300

Gamma API

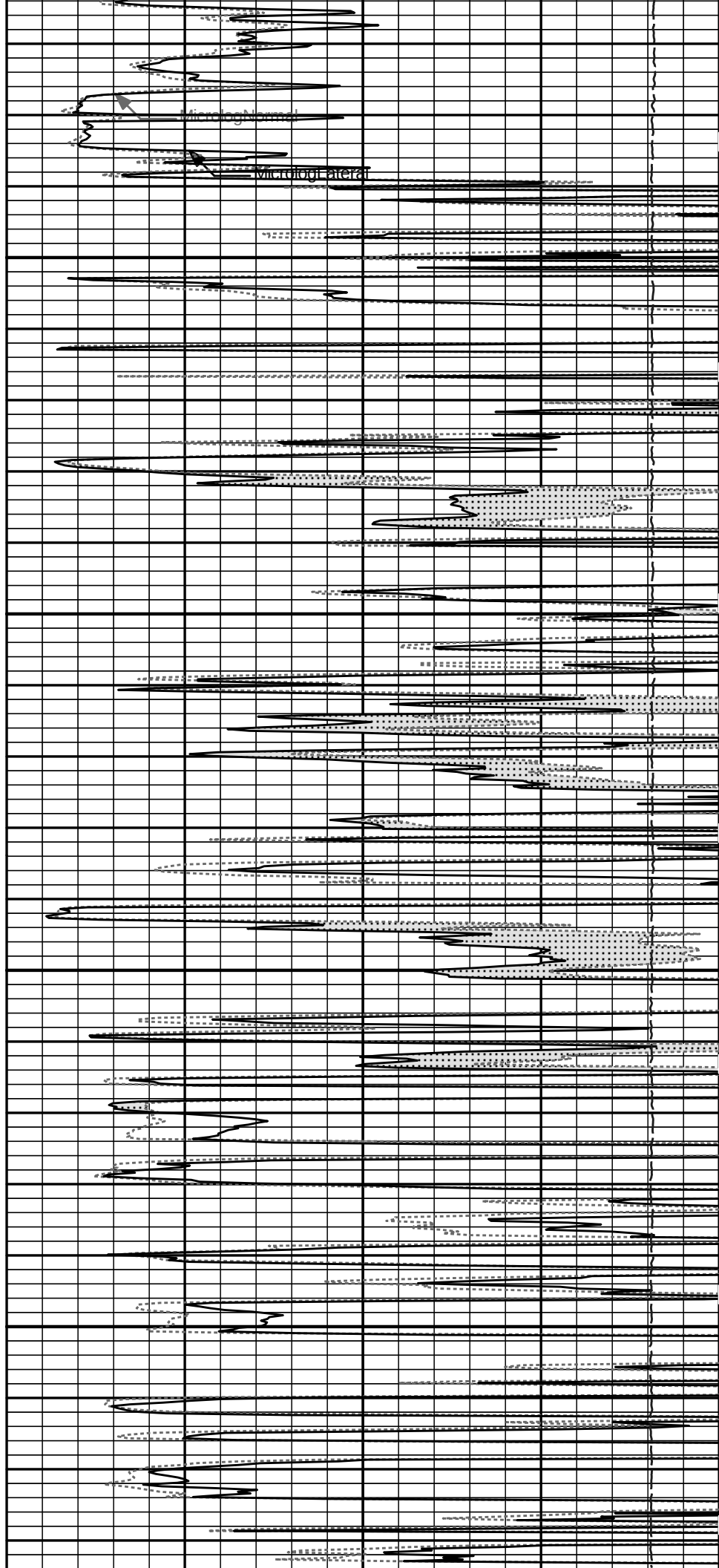


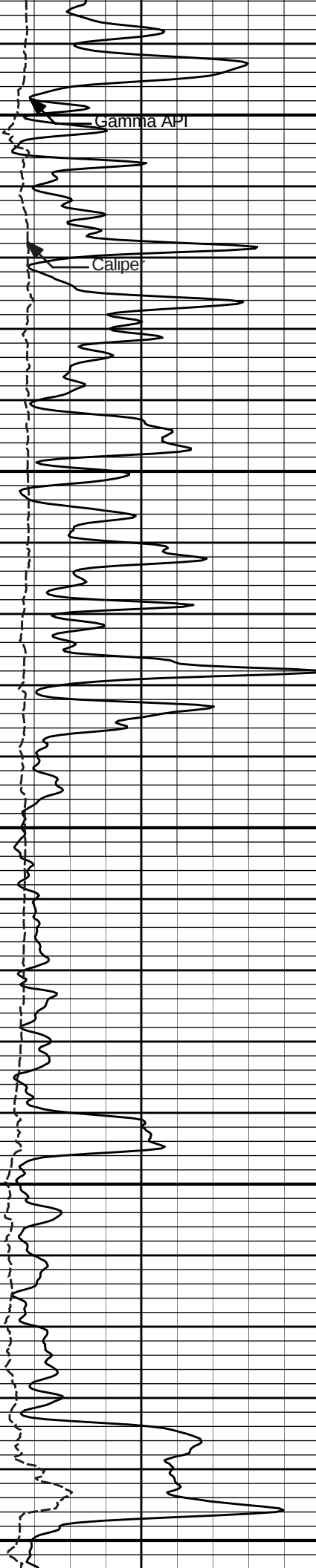
Microfungal analysis



4400

4500



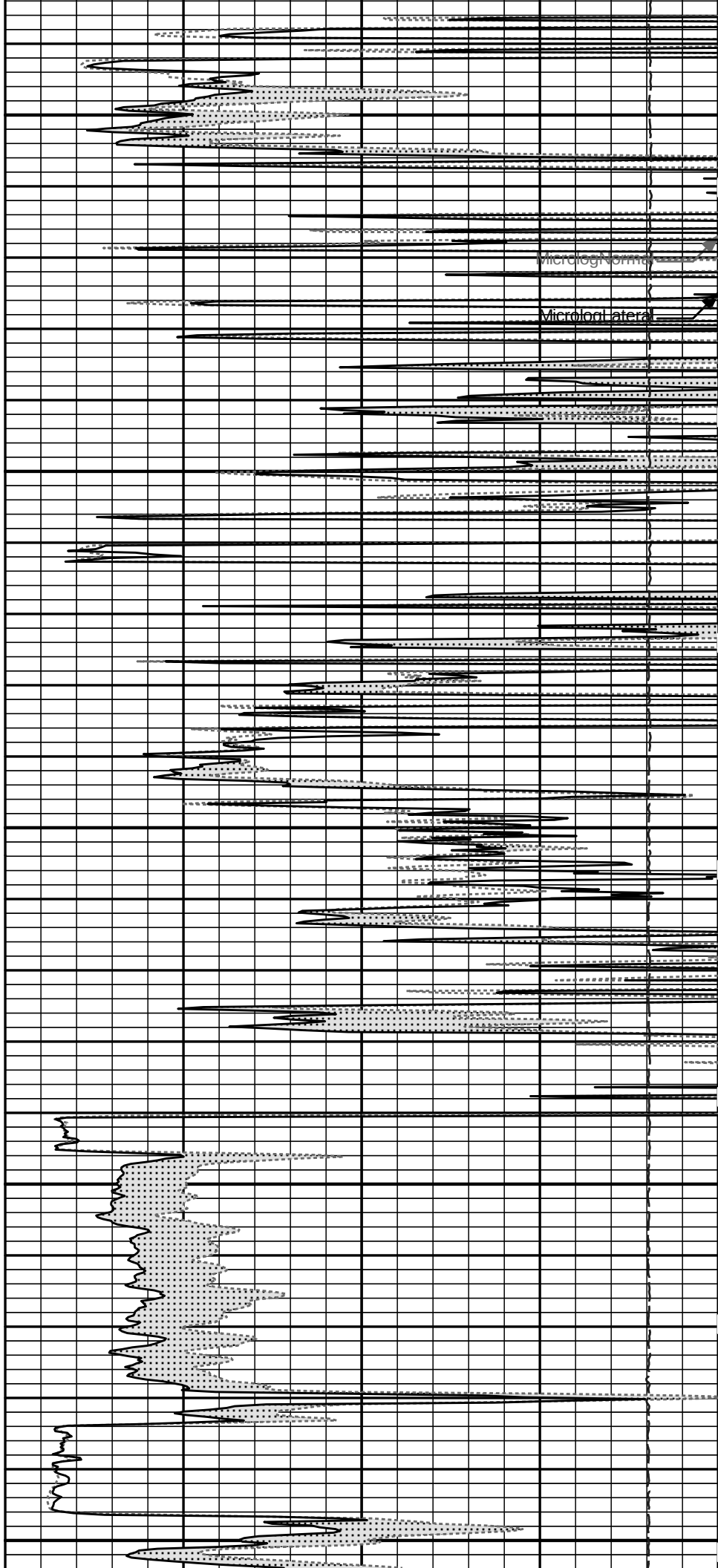


Gamma API

Calipe

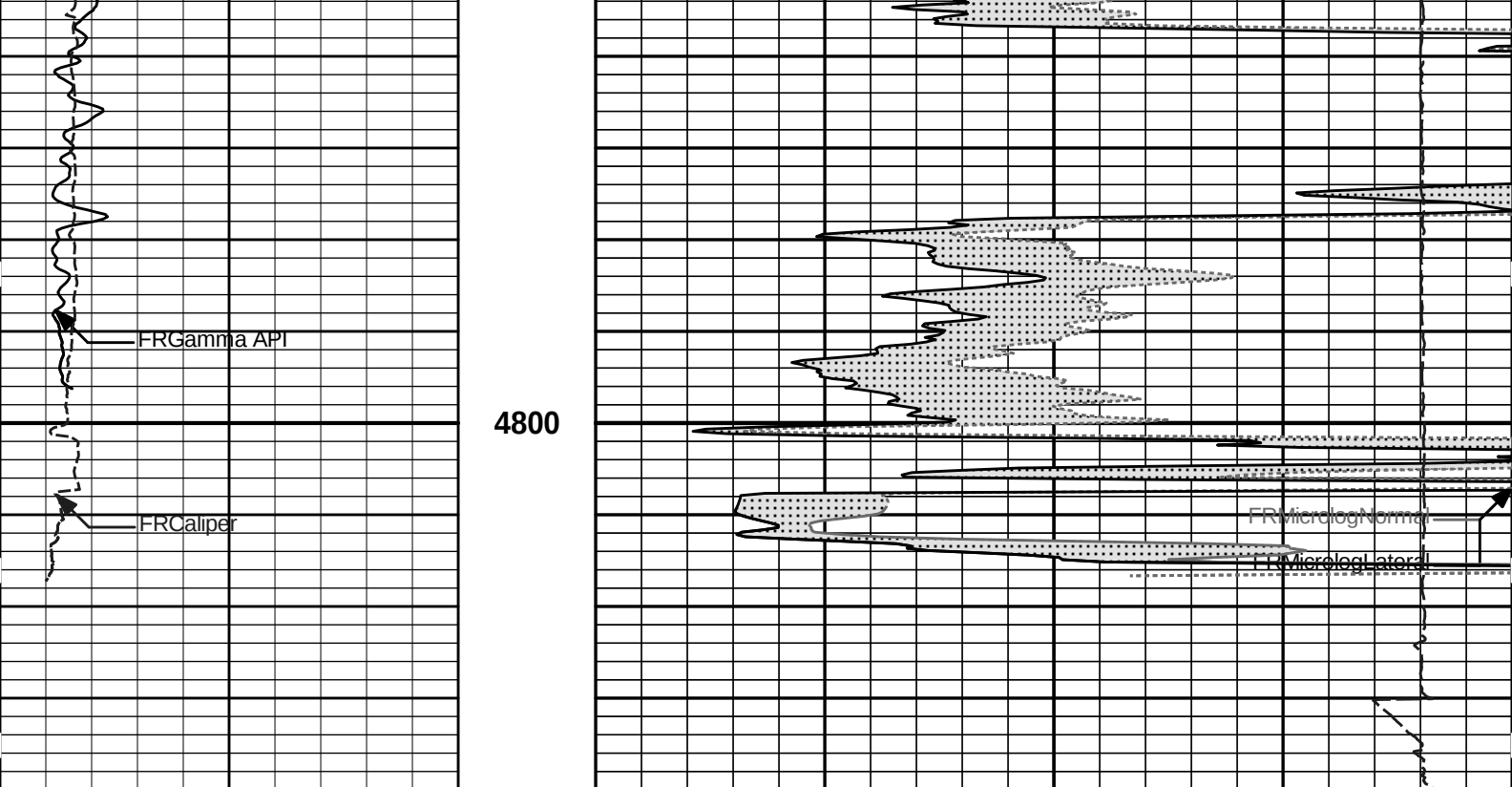
4600

4700



Microlog Normal

Microlog Lateral



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: 13-Mar-12 18:47:01
Plot Range: 2300 ft to 4840.08 ft
Data: HART_DAMME_46\Well Based\DAQ-0001-007\
Plot File: \\-LOCAL-HART_DAMME_46\0001 BLACK-WBM-GTET-DSN-SDL-ACRT-CBHD\MICROLOG\Microlog_IQ_5_main

5 INCH MAIN LOG

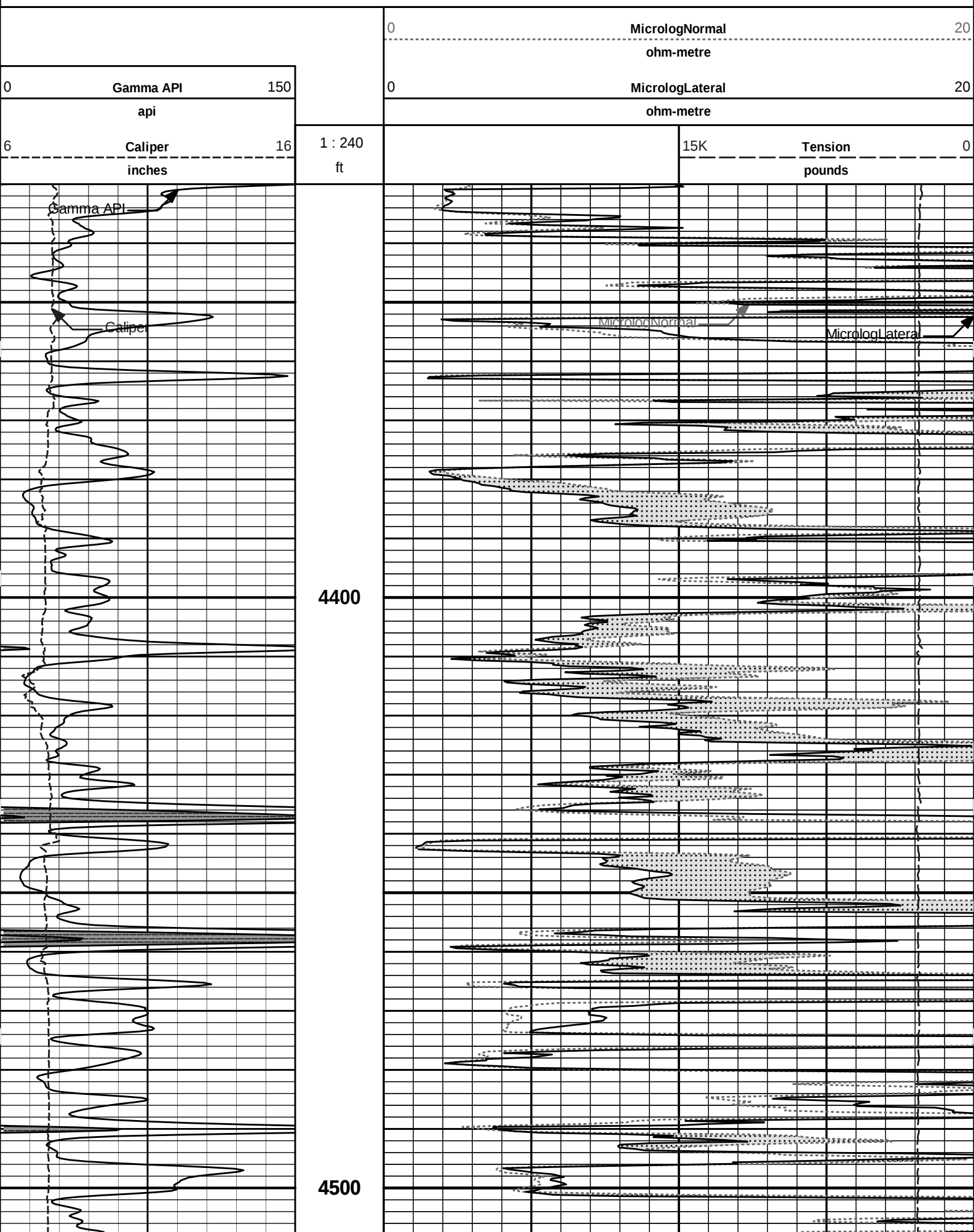
5" PER 100' MAIN LOG

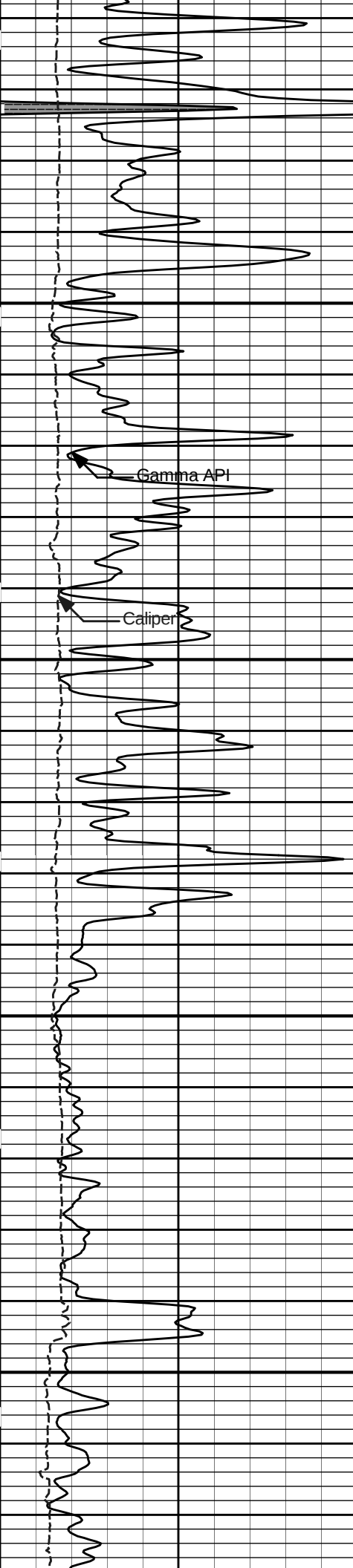
HALLIBURTON

Plot Time: 13-Mar-12 18:47:02
Plot Range: 4330 ft to 4858.08 ft
Data: HART_DAMME_46\Well Based\DAQ-0001-006\
Plot File: \\-LOCAL-HART_DAMME_46\0001 BLACK-WBM-GTET-DSN-SDL-ACRT-CBHD\MICROLOG\Microlog_IQ_5_REP

5 INCH REPEAT SECTION

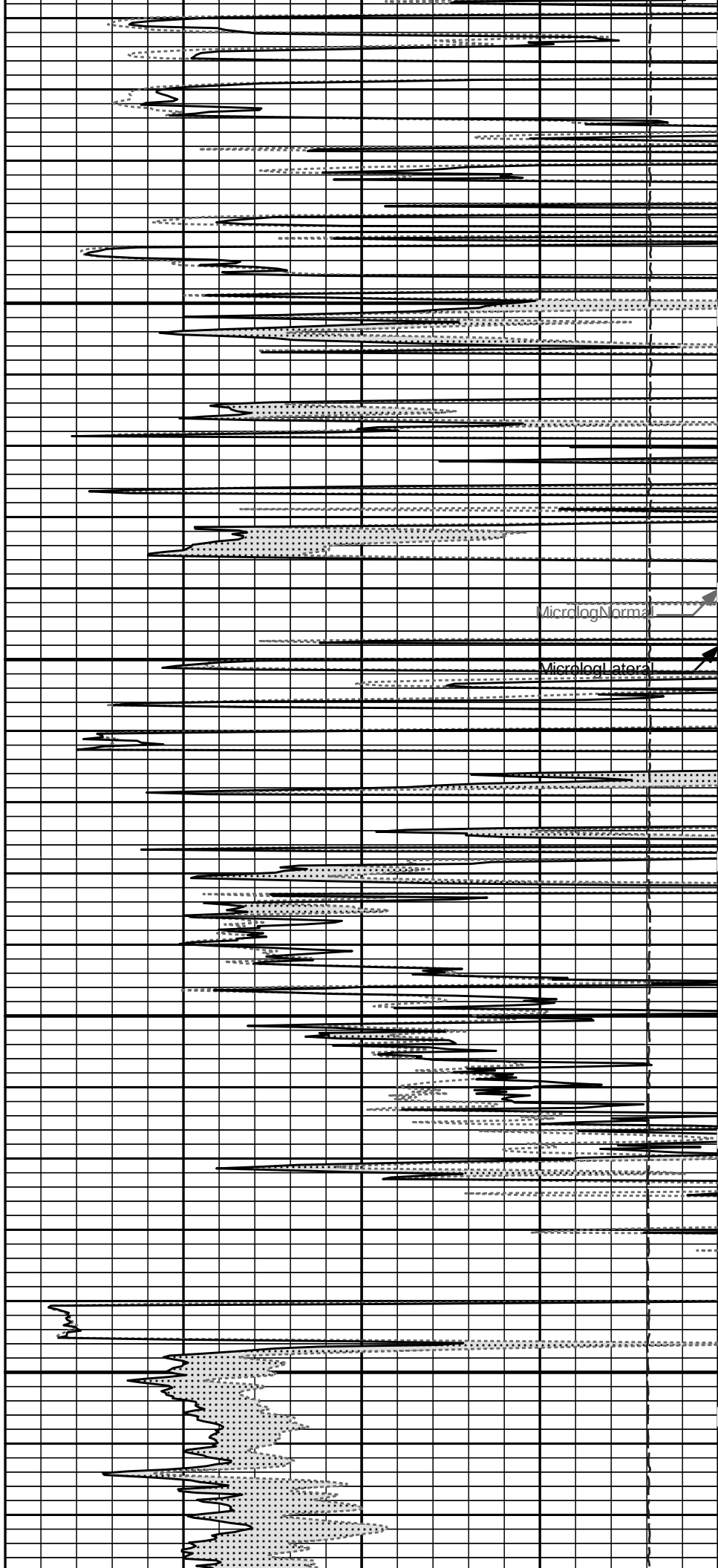
5" PER 100' REPEAT SECTION





4600

4700



CALIBRATION REPORT

SURFACE TENSION SHOP CALIBRATION

Tool Name:	Depth Panel - PROT01	Reference Calibration Date:	13-Jan-08 19:31:38
Engineer:	WHITLOCK	Calibration Date:	26-Mar-09 09:42:21
Software Version:	WL INSITE R2.4 (Build 1)	Calibration Version:	1

SURFACE TENSION LOAD CELL

Measurement	Load Cell Value	Measurement	Calibrated	Units
Low	9877.87	32908.03	0.00	lbs
High	16448.28	55771.74	7800.00	lbs

DOWNHOLE TENSION SHOP CALIBRATION

Tool Name:	CH_HOS - CH_HOS_I	Reference Calibration Date:	07-Nov-11 21:53:28
Engineer:	WHITLOCK	Calibration Date:	10-Feb-12 05:29:34
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

DOWNHOLE LOAD CELL

Measurement	Tool Value	Measurement	Calibrated	Units
Low	1695.54	-190.76	0.00	lbs
High	9060.32	856.01	1076.00	lbs

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:	GTET - 10971172	Reference Calibration Date:	07-Feb-12 10:09:50
Engineer:	WHITLOCK	Calibration Date:	27-Feb-12 09:55:44
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

Calibrator Source S/N: TB-79
Calibrator API Reference:222.00 api
Equivalent Calibrator API Reference:225.9 api

Measurement	Measured	Calibrated	Units
Background	34.1	34.3	api
Background + Calibrator	258.2	260.2	api
Calibrator	224.1	225.9	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name:	GTET - 10971172	Reference Calibration Date:	27-Feb-12 09:55:44
Engineer:	WHITLOCK	Calibration Date:	12-Mar-12 09:28:26
Software Version:	WL INSITE R3.4.2 (Build 2)	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	34.3	52.9	api
Background + Calibrator	260.2	276.1	api
Calibrator	225.9	223.2	api

Shop	Field	Difference	Tolerance
225.9	223.2	2.7	+/- 9.00

ACCELEROMETER SHOP CALIBRATION

Tool Name:	GTET - 10971172	Reference Calibration Date:	01-Jan-70 00:00:00
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Engineer:	WHITLOCK		Calibration Date:	20-Oct-08 14:40:55	
Software Version:	WL INSITE R2.2 (Build 2)		Calibration Version:	1	
	Horizontal-1 Telemetry	Horizontal-2 Telemetry	Vertical Telemetry	Units	
	-85.64	-67.18	-16422.00	cnts	
	Coefficient	Coefficient Value	Tolerance		
	Gain	-0.000061	-----		
	Offset	-0.005	-----		
	Noise	0.0000	0.0000 - 0.0000		
	Orientation	Measured	Tolerance	Calibrated	Tolerance
	Horizontal	-76.41	-0.10 - 0.10	0.00	-0.10 - 0.10
	Vertical	-16422.00	0.90 - 1.10	1.00	0.90 - 1.10

DUAL SPACED NEUTRON SHOP CALIBRATION				
Tool Name:	DSNT - 10951378	Reference Calibration Date:	07-Feb-12 13:10:35	
Engineer:	WHITLOCK	Calibration Date:	05-Mar-12 12:23:01	
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1	
Logging Source S/N: DSN-373 Tank Serial Number: FTSM HWT Reference value assigned to Tank: 56.100 Snow Block S/N: 10975786 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:	1.009	1.006	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):	0.2365	0.2358	0.0008	+/- 0.0020
Calibrated Ratio:	10.58	10.56	0.025	+/- 0.050
VERIFIER				
Measurement	Value	Control Limit		
Snow-Block Porosity (decp):	0.0803	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 - 10951378	Reference Calibration Date:	05-Mar-12 12:23:01
Engineer:	WHITLOCK	Calibration Date:	12-Mar-12 09:32:51
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1
Logging Source S/N: DSN-373			
Snow Block S/N: 10975786			

NEUTRON FIELD-CHECK SUMMARY				
	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0803	0.0679	-0.0125	+/- 0.0150
PASS/FAIL SUMMARY				
Block Change Check:			Passed	
Snow Block Stat Check:			Passed	
Temperature Check:			Passed	

DENSITY CALIPER SHOP CALIBRATION				
Tool Name:	SDLT - I378_M477_P870		Reference Calibration Date:	01-Nov-11 12:44:52
Engineer:	HOFKAMP		Calibration Date:	01-Nov-11 12:48:51
Software Version:	WL INSITE R3.4.2 (Build 2)		Calibration Version:	1
CALIBRATION COEFFICIENTS				
Measurement	Previous Value	New Value	Control Limit On New Value	
Pad Offset	-1565.21	-1542.68	-7000.00 - -1000.00	
Pad Gain	0.0003866	0.0003840	0.000200 - 0.000600	
Arm Offset	-482.77	-456.98	-5000.00 - 3000.00	
Arm Gain	0.0004767	0.0004734	0.000300 - 0.000700	
Arm Power	-0.000002553	-0.000002353	-0.000010 - 0.000010	
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)	2.01	2.00	-0.01	+/- 0.20
Medium Ring (in)	3.77	3.75	-0.02	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.49	6.50	0.01	+/- 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	

SDLT CALIPER FIELD CALIBRATION				
Tool Name:	SDLT - I378_M477_P870		Reference Calibration Date:	01-Nov-11 12:48:51
Engineer:	HOFKAMP		Calibration Date:	01-Nov-11 12:50:10
Software Version:	WL INSITE R3.4.2 (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	8.23	-0.02	+/- 0.15
PASS/FAIL SUMMARY				
Pad Extension Check:			Passed	

Diameter Check:					Passed				
ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION									
Tool Name: ACRt Sonde - I816_S708					Reference Calibration Date: 21-Sep-11 13:58:42				
Engineer: HOFKAMP					Calibration Date: 03-Jan-12 09:45:28				
Software Version: WL INSITE R3.4.2 (Build 2)					Calibration Version: 1				
TYPICAL GAIN RANGE									
Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.0353	1.05	0.95	1.0124	1.05	0.95	1.0031	1.05
A2 (50")	0.95	1.0437	1.05	0.95	1.0210	1.05	0.95	1.0094	1.05
A3 (29")	0.95	1.0354	1.05	0.95	1.0124	1.05	0.95	1.0009	1.05
A4 (17")	0.95	1.0255	1.05	0.95	1.0019	1.05	0.95	0.9959	1.05
A5 (10")	N/A	N/A	N/A	0.95	0.9971	1.05	0.95	0.9892	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9959	1.05	0.95	0.9887	1.05
TYPICAL SONDE OFFSET RANGE									
Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	-5	0.928	2	-6	-4.573	-2	-8	-5.812	-2
A2 (50")	-7	0.314	-1	-6	-3.738	-2	-7	-5.333	-2
A3 (29")	-27	-12.244	-9	-9	-4.322	-3	-7	-4.343	-1
A4 (17")	-180	-99.972	-60	-45	-31.306	-15	-39	-24.956	-13
A5 (10")	N/A	N/A	N/A	-150	-99.875	-50	-80	-47.603	-10
A6 (6")	N/A	N/A	N/A	175	327.313	525	90	166.084	270
TRANSMITTER CURRENT GAIN					R-MUD VERIFICATION				
Signal	Lower		R	Upper	Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)	
12K		0.6	0.8154	1.3	Mud Cell	0.95	1.004	1.05	
36K		1.0	1.1504	2.0					
72K		1.0	1.3123	2.0					
SPECTRAL DENSITY SHOP CALIBRATION									
Tool Name: SDLT Pad - I378_M477_P870					Reference Calibration Date: 07-Feb-12 10:44:34				
Engineer: WHITLOCK					Calibration Date: 05-Mar-12 10:04:59				
Software Version: WL INSITE R3.4.2 (Build 2)					Calibration Version: 1				
Logging Source S/N: 20784B									
Aluminum Block S/N: FTSM AL BLOCK					Density: 2.581g/cc			Pe: 3.170	
Magnesium Block S/N: FTSM MG BLOCK					Density: 1.687g/cc			Pe: 2.594	
DENSITY CALIBRATION SUMMARY									
	Measurement		Previous Value		New Value		Control Limit		
	Near Bar Gain		1.0295		1.0402		0.90 - 1.10		
	Near Dens Gain		1.0210		1.0433		0.90 - 1.10		
	Near Peak Gain		1.0285		1.0808		0.90 - 1.10		
	Near Lith Gain		1.0504		1.0861		0.90 - 1.10		
	Far Bar Gain		1.0096		1.0107		0.90 - 1.10		
	Far Dens Gain		1.0022		1.0030		0.90 - 1.10		
	Far Peak Gain		0.9978		0.9996		0.90 - 1.10		
	Far Lith Gain		0.9872		0.9798		0.90 - 1.10		

Near Bar Offset	-0.0854	-0.1837	NONE
Near Dens Offset	-0.0149	-0.2146	NONE
Near Peak Offset	-0.0798	-0.5189	NONE
Near Lith Offset	-0.2768	-0.5818	NONE
Far Bar Offset	0.0320	0.0197	NONE
Far Dens Offset	0.0782	0.0658	NONE
Far Peak Offset	0.0898	0.0656	NONE
Far Lith Offset	0.1440	0.1823	NONE
Near Bar Background	901.39	900.68	700 - 1450
Near Dens Background	295.56	293.31	230 - 480
Near Peak Background	128.95	128.47	100 - 210
Near Lith Background	158.39	157.51	125 - 260
Far Bar Background	543.29	546.24	450 - 900
Far Dens Background	211.48	212.31	175 - 345
Far Peak Background	83.59	84.47	70 - 140
Far Lith Background	87.68	87.24	75 - 145

CALIBRATION BLOCK SUMMARY				
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.682	1.687	0.005	+/- 0.015
Pe	2.541	2.554	0.013	+/- 0.150
ALUMINUM				
Density (g/cc)	2.579	2.581	0.002	+/- 0.01500
Pe	3.069	3.127	0.058	+/- 0.150

TOOL SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	-0.0015	+/- 0.0110	-0.0027	+/- 0.0140
Magnesium Block	-0.0015	+/- 0.0110	0.0002	+/- 0.0140
Aluminum Block	-0.0007	+/- 0.0110	0.0002	+/- 0.0140
Resolution	9.12	6.00 - 11.50	8.62	6.00 - 11.50
Internal Verifier(B+D+P+L)	1480	1200 - 2700	930	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 - I378_M477_P870	Reference Calibration Date:	05-Mar-12 10:04:59
Engineer:	WHITLOCK	Calibration Date:	12-Mar-12 09:38:31
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

DENSITY FIELD CALIBRATION SUMMARY				
Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1479.967	1477.747	-2.220	15.508
Far (B+D+P+L) cps	930.256	930.978	0.722	16.502
Near Resolution	9.12	9.26	0.140	0.50
Far Resolution	8.62	9.13	0.510	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 - I378_M477_P870	Reference Calibration Date:	15-Dec-11 10:52:18
Engineer:	WHITLOCK	Calibration Date:	16-Feb-12 13:59:17
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

CALIBRATION COEFFICIENT SUMMARY					
Measurement	Micro Log Normal		Micro Log Lateral		Units
	Measured	Calibrated	Measured	Calibrated	
Tool Zero	-0.18	-0.14	-0.00	-0.00	ohmm
Calibration Point #1	-0.04	0.00	-0.00	0.00	ohmm
Calibration Point #2	19.96	20.00	19.99	20.00	ohmm
Internal Reference	19.81	19.86	19.99	20.00	ohmm

Measurement	Micro Log Normal Tool Value	Micro Log Lateral Tool Value	Units
Tool Zero	0.43	0.82	V
Calibration Point #1	37.45	1.94	V
Calibration Point #2	5295.78	6863.62	V
Internal Reference	5257.79	6861.95	V

MICRO LOG FIELD CHECK			
Tool Name:	Microlog Pad - I378_M477_P870	Reference Calibration Date:	16-Feb-12 13:59:17
Engineer:	WHITLOCK	Calibration Date:	12-Mar-12 09:38:40
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

Measurement	Micro Log Normal		Micro Log Lateral		Units
	Shop	Field	Shop	Field	
Tool Zero	-0.14	-0.14	-0.00	-0.00	ohmm
Internal Reference	19.86	19.81	20.00	19.95	ohmm

Summary				
Signal	Shop	Field	Difference	Tolerance
Microlog Normal	19.86	19.81	0.05	+/- 0.80
Microlog Lateral	20.00	19.95	0.05	+/- 0.80

CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
Depth Panel-PROT01						
Tension Zero	0.00	-----	-----	0.00	-----	lbs
Tension Cal	7800.00	-----	-----	0.00	-----	lbs

CH_HOS-CH_HOS_I						
DH Tension Zero	0.00	-----	-----	0.00	-----	lbs
DH Tension Cal	1076.00	-----	-----	0.00	-----	lbs
GTET-10971172						
Gamma Ray Calibrator	225.9	223.2	-----	2.7	+/- 9.00	api
DSNT-10951378						
Snow-Block Porosity	0.0803	0.0679	-----	0.0124	+/- 0.0150	decp
SDLT-I378_M477_P870						
Pad Extension	3.75	3.75	-----	0.00	+/-0.10	in
Ring Diameter	8.25	8.23	-----	0.020	+/-0.15	in
ACRt Sonde-I816_S708						
Mud Cell	1.004	-----	-----	0.000	-----	ohm-m
SDLT Pad-I378_M477_P870						
Near(B+D+P+L)	1479.967	1477.747	-----	2.220	+/-15.508	cps
Far(B+D+P+L)	930.256	930.978	-----	-0.722	+/-16.502	cps
Microlog Pad-I378_M477_P870						
MicroLog Normal	19.86	19.81	-----	0.05	+/-0.80	ohmm
MicroLog Lateral	20.00	19.95	-----	0.05	+/-0.80	ohmm
Data: HART_DAMME_46\0001 BLACK-WBM-GTET-DSN-SDL-ACRT-CBHD\IDLE					Date: 13-Mar-12 13:48:32	

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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	0.850	ohmm
	SHARED	TRM	Temperature of Mud	85.0	degF
	SHARED	CSD	Logging Interval is Cased?	No	
	SHARED	ICOD	AHV Casing OD	5.500	in
	SHARED	ST	Surface Temperature	75.0	degF
	SHARED	TD	Total Well Depth	4850.00	ft
	SHARED	BHT	Bottom Hole Temperature	125.0	degF
	SHARED	SVTM	Navigation and Survey Master Tool	NONE	
	SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET	
	SHARED	TEMM	Temperature Master Tool	NONE	
	SHARED	BHSM	Borehole Size Master Tool	NONE	
	GTET	GROK	Process Gamma Ray?	Yes	
	GTET	GRSO	Gamma Tool Standoff	0.000	in
	GTET	GEOK	Process Gamma Ray EVR?	No	
	GTET	TPOS	Tool Position for Gamma Ray Tools.	Eccentered	
	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	0.200	in

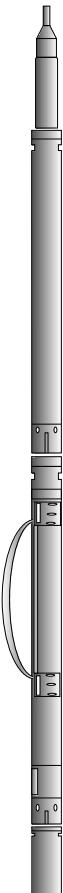
DSNT	DNTP	Temperature Correction Type	None	
DSNT	DPRS	DSN Pressure Correction Type	None	
DSNT	SHCO	View More Correction Options	No	
DSNT	UTVD	Use TVD for Gradient Corrections?	No	
DSNT	LHWT	Logging Horizontal Water Tank?	No	
SDLT	CLOK	Process Caliper Outputs?	Yes	
SDLT Pad	DNOK	Process Density?	Yes	
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
Microlog Pad	MLOK	Process MicroLog Outputs?	Yes	
ACRt Sonde	RTOK	Process ACRt?	Yes	
ACRt Sonde	MNSO	Minimum Tool Standoff	1.50	in
ACRt Sonde	TCS1	Temperature Correction Source	FP Lwr & FP Up	
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	RMIN	Maximum Resistivity for MAP	200.00	ohmm
ACRt Sonde	THQY	Threshold Quality	0.50	
BOTTOM				

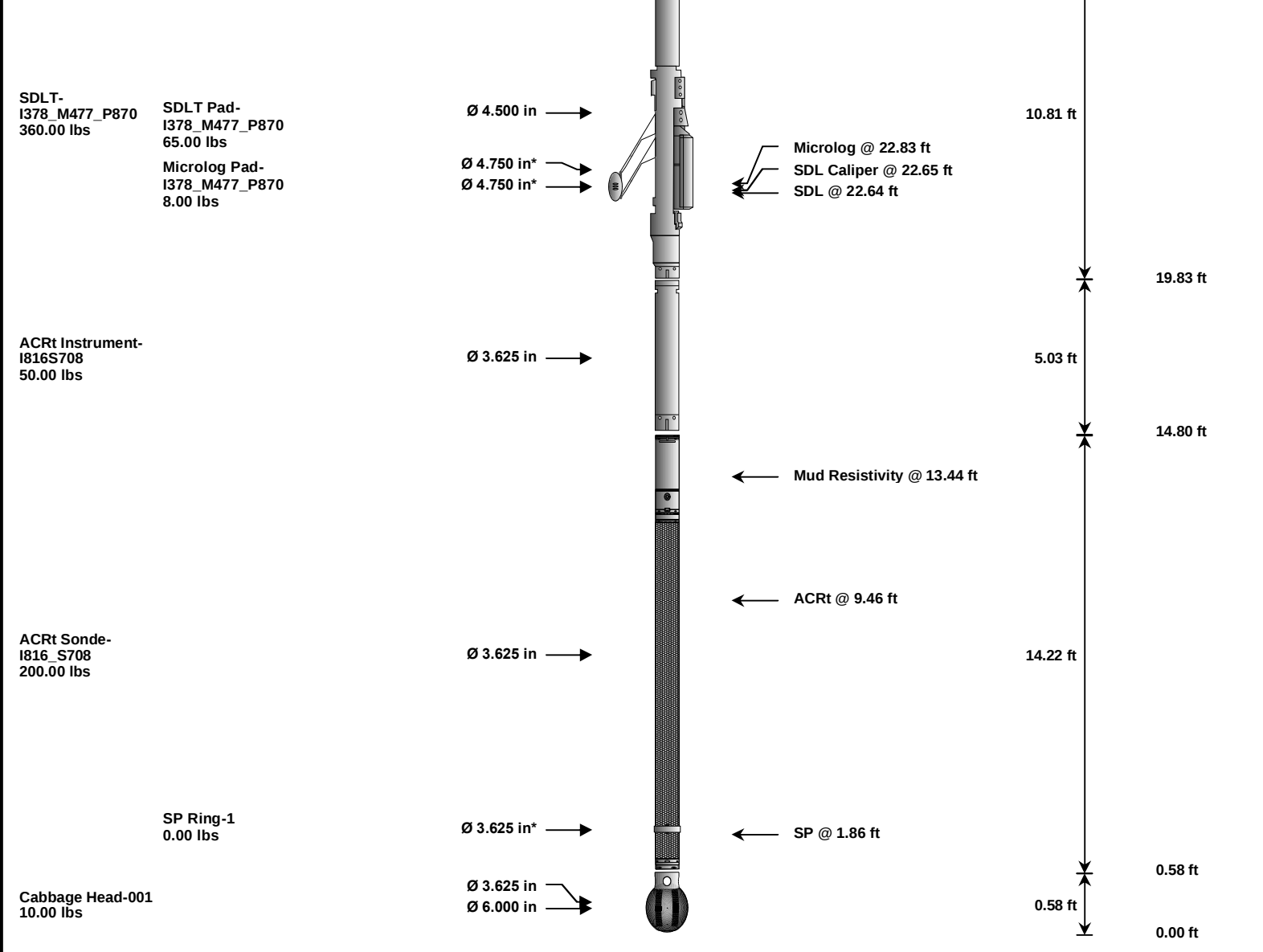
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Date: 13-Mar-12 13:49:28

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TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
CH_HOS_I 37.50 lbs		Ø 2.750 in →		← Temperature @ 50.85 ft	3.25 ft	52.10 ft
						48.85 ft
GTET-10971172 165.00 lbs		Ø 3.625 in →		← GammaRay @ 42.79 ft	8.52 ft	
						40.33 ft
DSNT-10951378 174.00 lbs	DSN Decentralizer- 10735145 6.60 lbs	Ø 5.000 in* → Ø 3.625 in →		← DSN Far @ 33.39 ft ← DSN Near @ 32.64 ft	9.69 ft	
						30.64 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	3.25	48.85	300.00
GTET	Gamma Telemetry Tool	10971172	165.00	8.52	40.33	60.00
DSNT	Dual Spaced Neutron	10951378	174.00	9.69	30.64	60.00
DCNT	DSN Decentralizer	10735145	6.60	5.13	33.97 *	300.00
SDLT	Spectral Density Tool	I378_M477_P870	360.00	10.81	19.83	60.00
SDLP	Density Insite Pad	I378_M477_P870	65.00	2.55	22.04 *	60.00
MICP	Microlog Pad	I378_M477_P870	8.00	1.00	22.33 *	60.00
ACRt	Array Compensated True Resistivity Instrument Section	I816S708	50.00	5.03	14.80	300.00
ACRt	Array Compensated True Resistivity	I816_S708	200.00	14.22	0.58	300.00
SP	SP Ring	1	0.00	0.25	1.86 *	300.00
CBHD	Cabbage Head	001	10.00	0.58	0.00	300.00
Total			1,076.10	52.10		
* Not included in Total Length and Length Accumulation.						
Data: HART_DAMME_46\0001 BLACK-WBM-GTET-DSN-SDL-ACRT-CBHD\IDLE					Date: 13-Mar-12 13:49:53	