

MICROLOG

Fold here

Service Ticket No.: 902209523				API Serial No.: 15-069-20493-00-00				PGM Version: WL INSITE R4.6.4 (Build 3)						
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE						RESISTIVITY SCALE CHANGES								
Date	Sample No.					Type Log	Depth	Scale Up Hole		Scale Down Hole				
Depth-Driller														
Type Fluid in Hole														
Density	Viscosity													
Ph	Fluid Loss													
Source of Sample						RESISTIVITY EQUIPMENT DATA								
Rm @ Meas. Temp		@		@		Run No.	Tool Type & No.	Pad Type	Tool Pos.	Other				
Rmf @ Meas. Temp.		@		@		ONE	ACRT	N/A	CENT	N/A				
Rmc @ Meas. Temp.		@		@			10929776							
Source Rmf	Rmc													
Rm @ BHT		@		@										
Rmf @ BHT		@		@										
Rmc @ BHT		@		@										
EQUIPMENT DATA														
GAMMA			ACOUSTIC			DENSITY			NEUTRON					
Run No.	ONE		Run No.	ONE		Run No.	ONE		Run No.	ONE				
Serial No.	10811258		Serial No.	U99T45R44L01		Serial No.	10673790		Serial No.	10735145				
Model No.	GTET		Model No.	WSTT		Model No.	SDLT		Model No.	DSNT				
Diameter	3.625"		No. of Cent.	2		Diameter	5.3"		Diameter	3.625"				
Detector Model No.	T-102		Spacing	EVEN		Log Type	GAM-GAM		Log Type	NEU-NEU				
Type	SCINT					Source Type	CS-137		Source Type	AM241BE				
Length	8"		LSA [Y/N]			Serial No.	5073GW		Serial No.	DSN-436				
Distance to Source	N/A		FWDA [Y/N]			Strength	1.5 Ci		Strength	15.0 Ci				
LOGGING DATA														
GENERAL				GAMMA		ACOUSTIC		DENSITY		NEUTRON				
Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix
No.	From	To	ft/min	L	R	L	R		L	R		L	R	
ONE	TD	CSG	REC	0	150	30	-10	47.6 uSec/ft	30	-10	2.71 gr/cc	30	-10	LIME

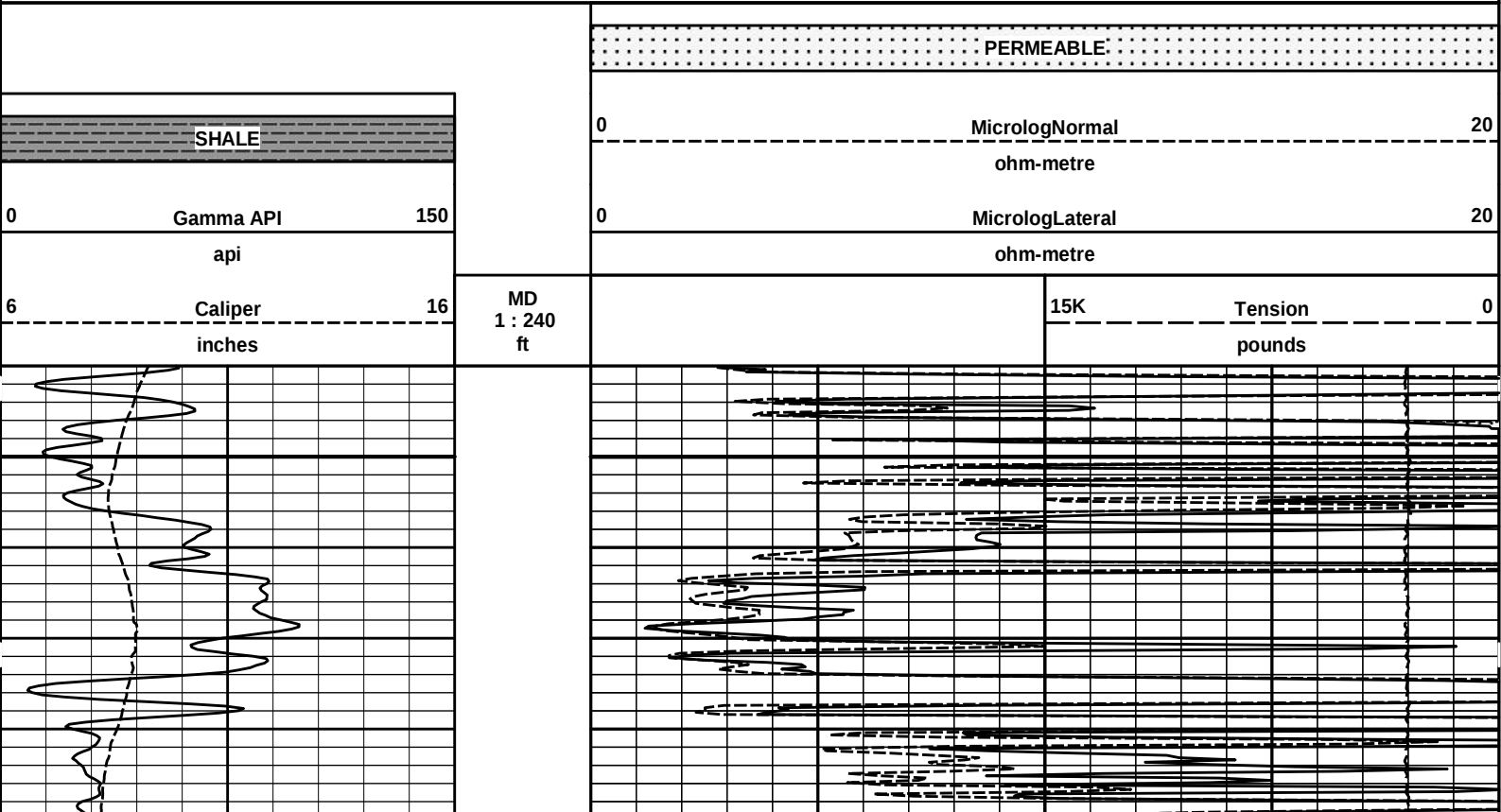
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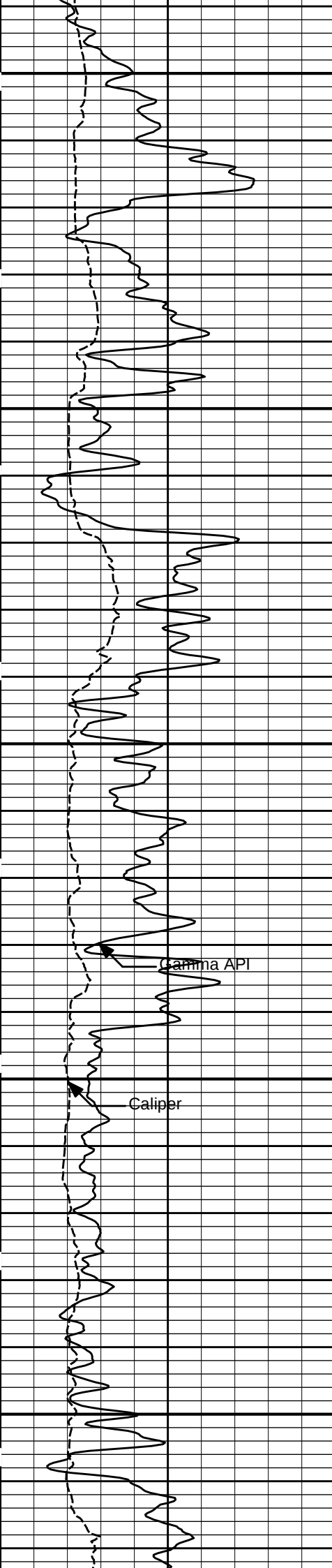
HALLIBURTON

Plot Time: 07-Mar-15 05:38:55
Plot Range: 2640 ft to 5553.25 ft
Data: S.TUCKER_1-19SW\Well Based\DETAILS\
Plot File: \\LOCAL-IS.TUCKER_1-19SW\Well Based\MICROLOG\Microlog_IQ_5_main.lib

5 INCH MAIN LOG

MEASURED DEPTH
MAIN LOG 5" PER 100'

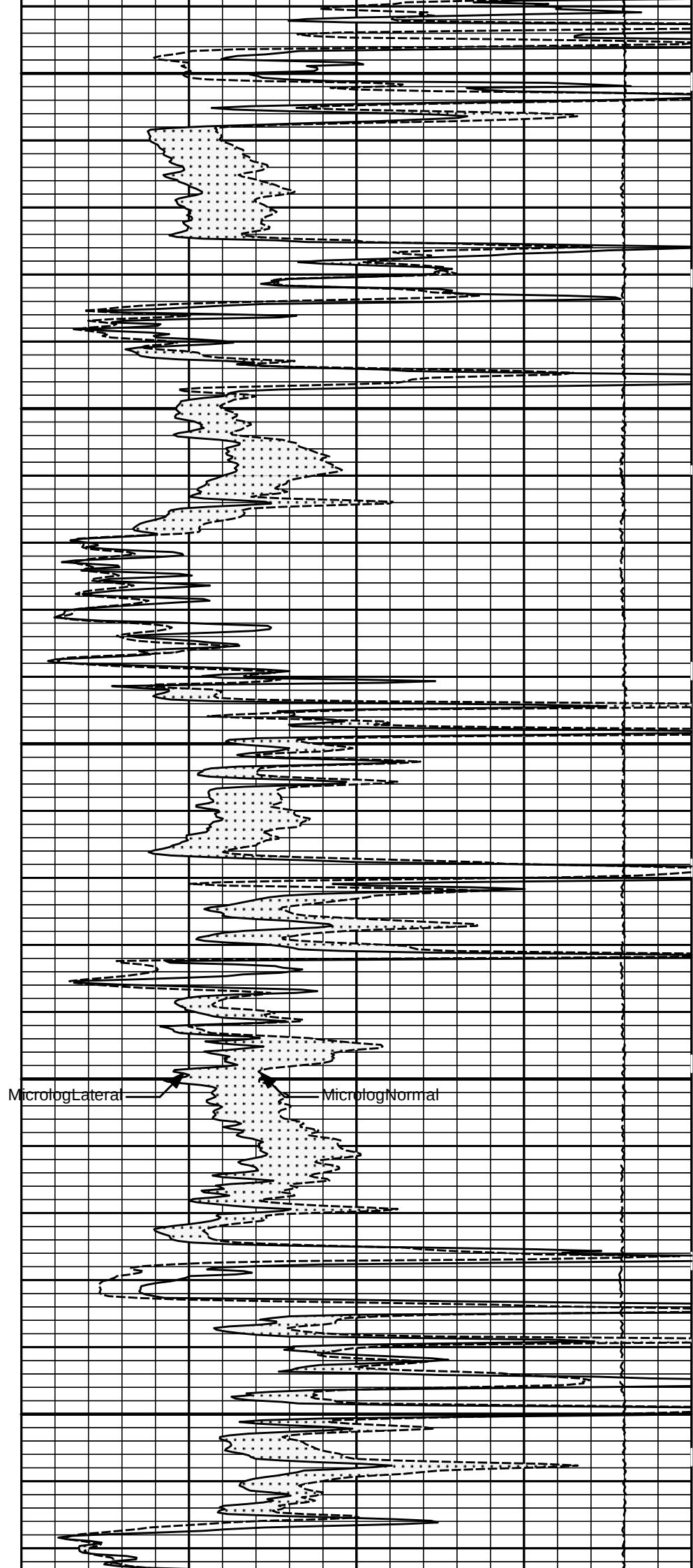




2700

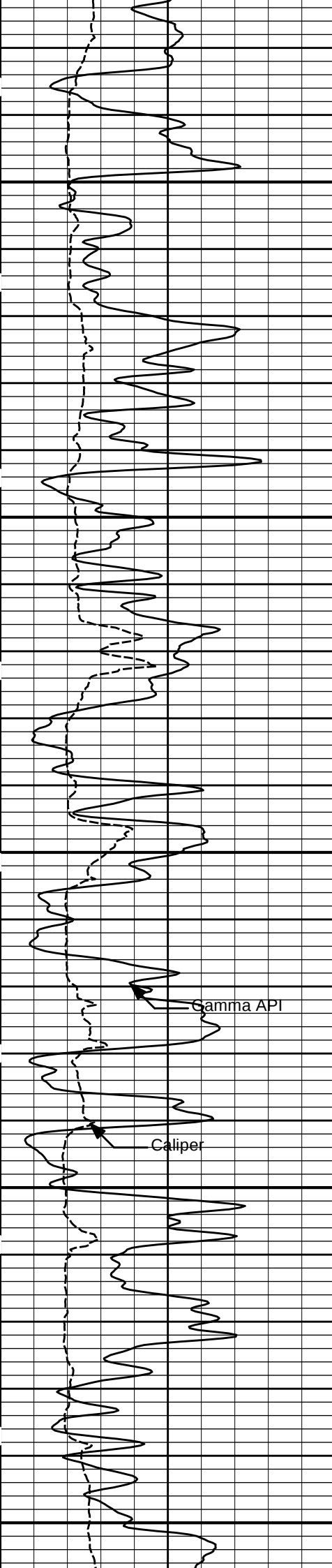
2800

2900



Microlog Lateral

Microlog Normal

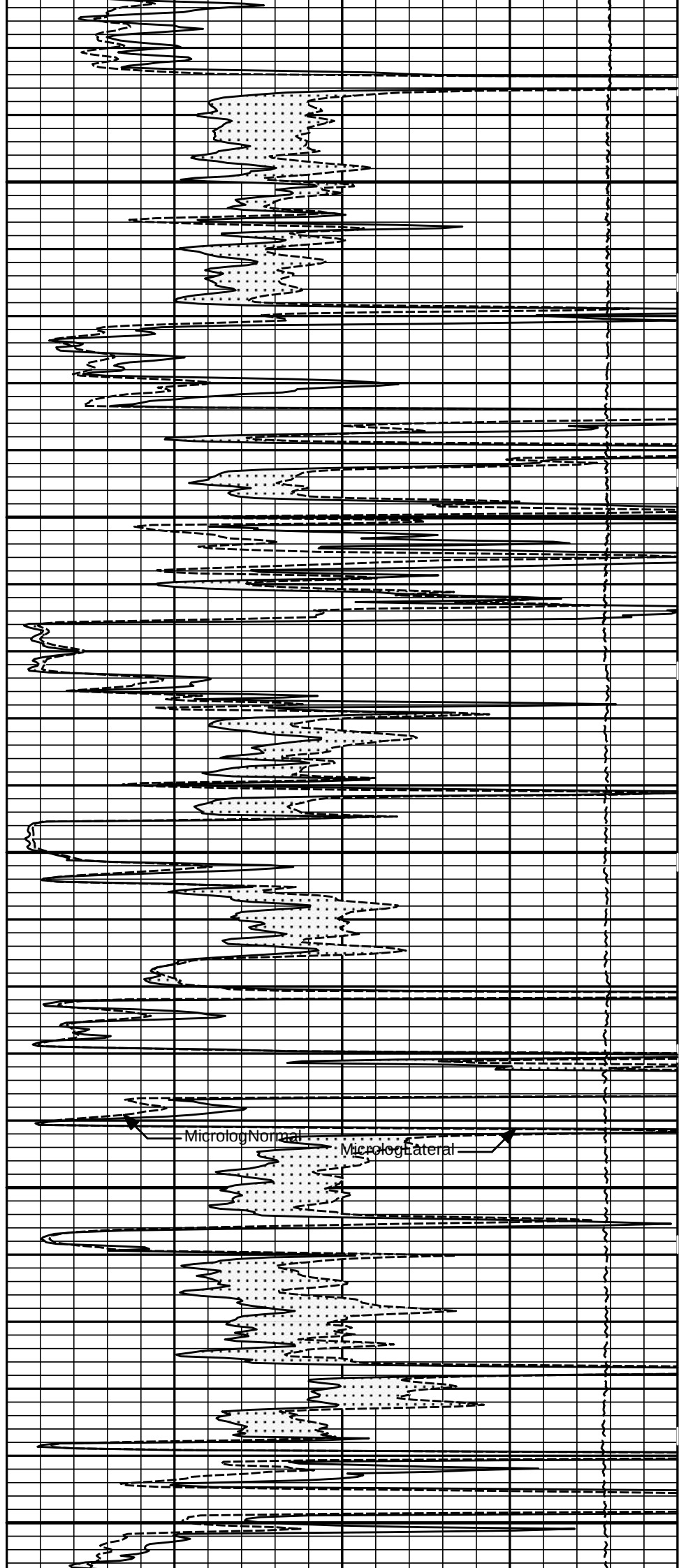


3000

3100

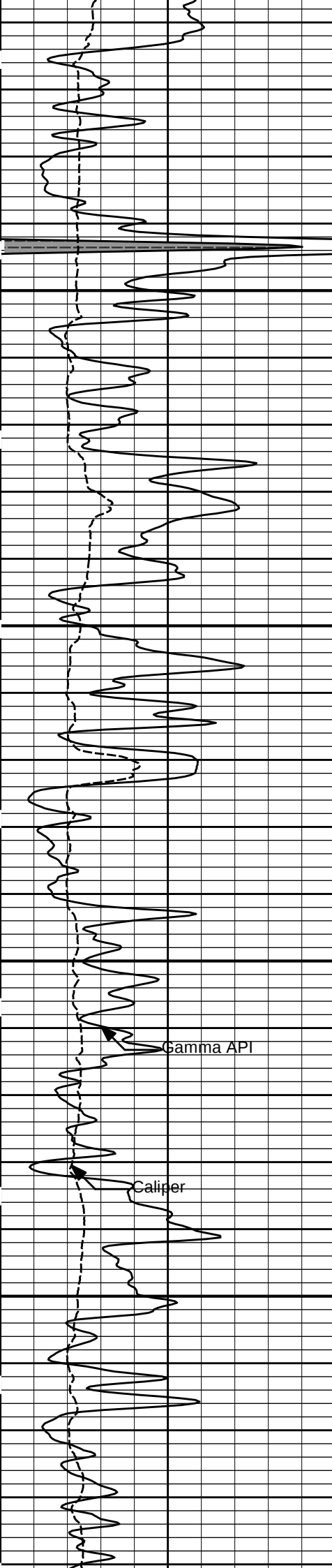
Gamma API

Caliper



Microlog Normal

Microlog Lateral

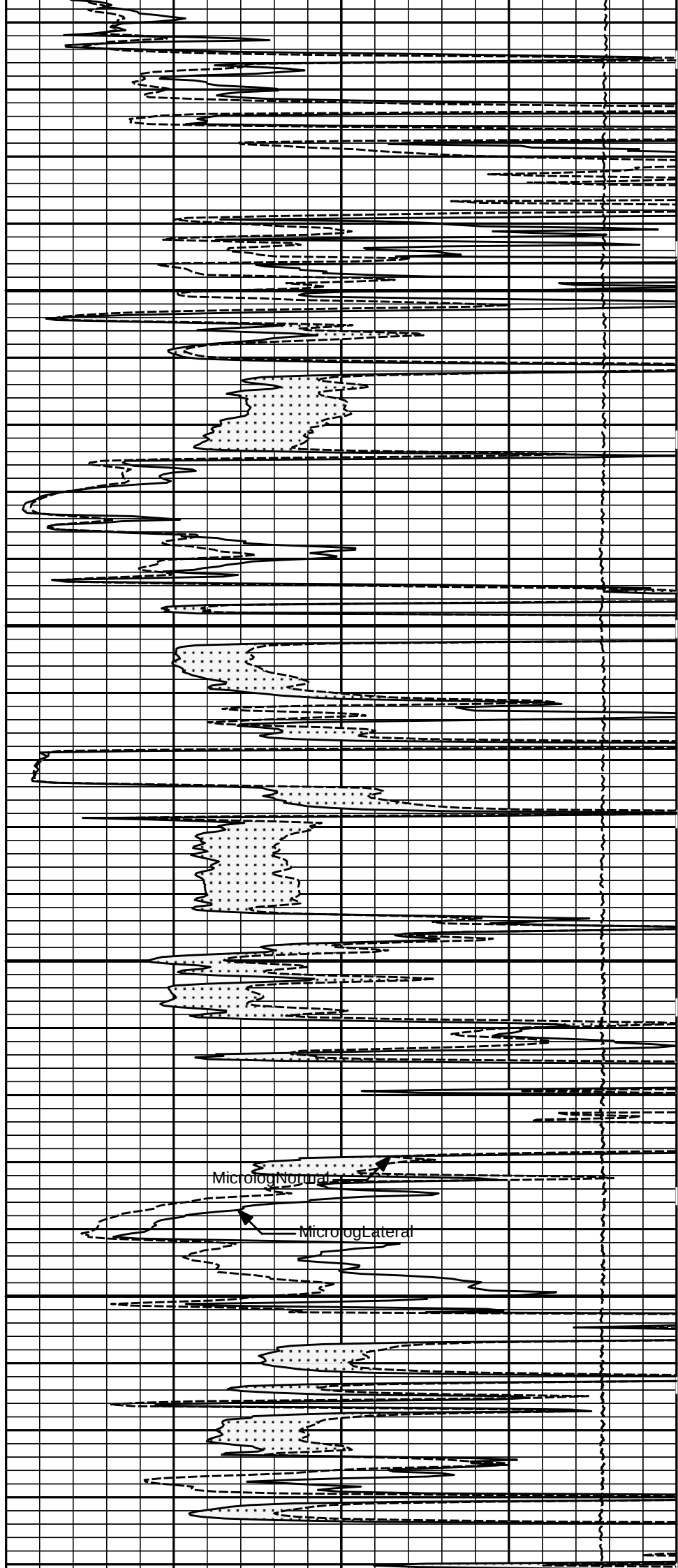


3200

3300

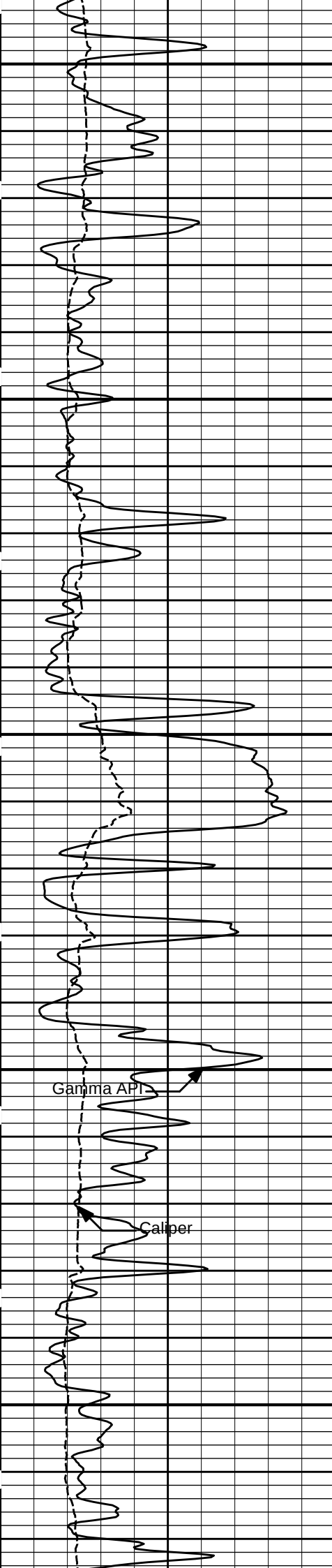
Gamma API

Caliper



MicrologNormal

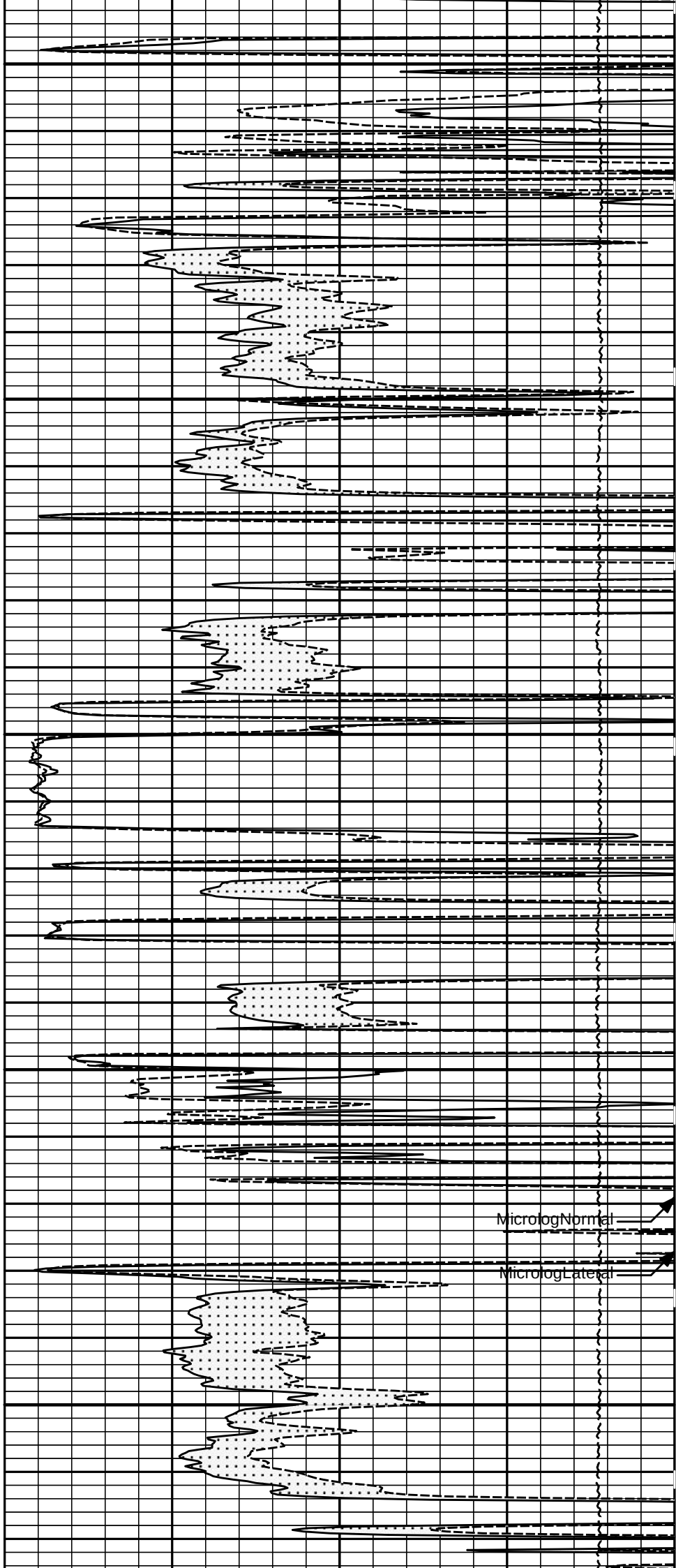
MicrologLateral



3400

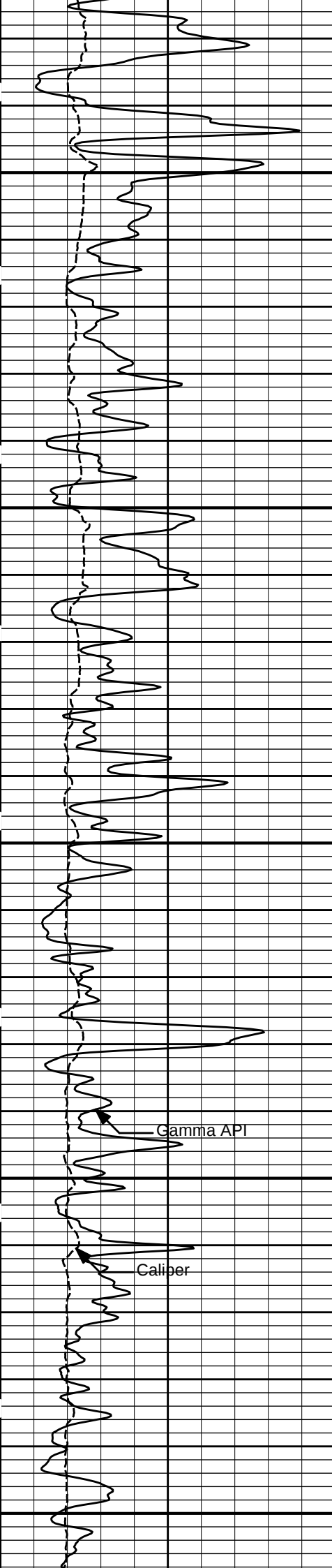
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3600



MicrologNormal

MicrologLateral

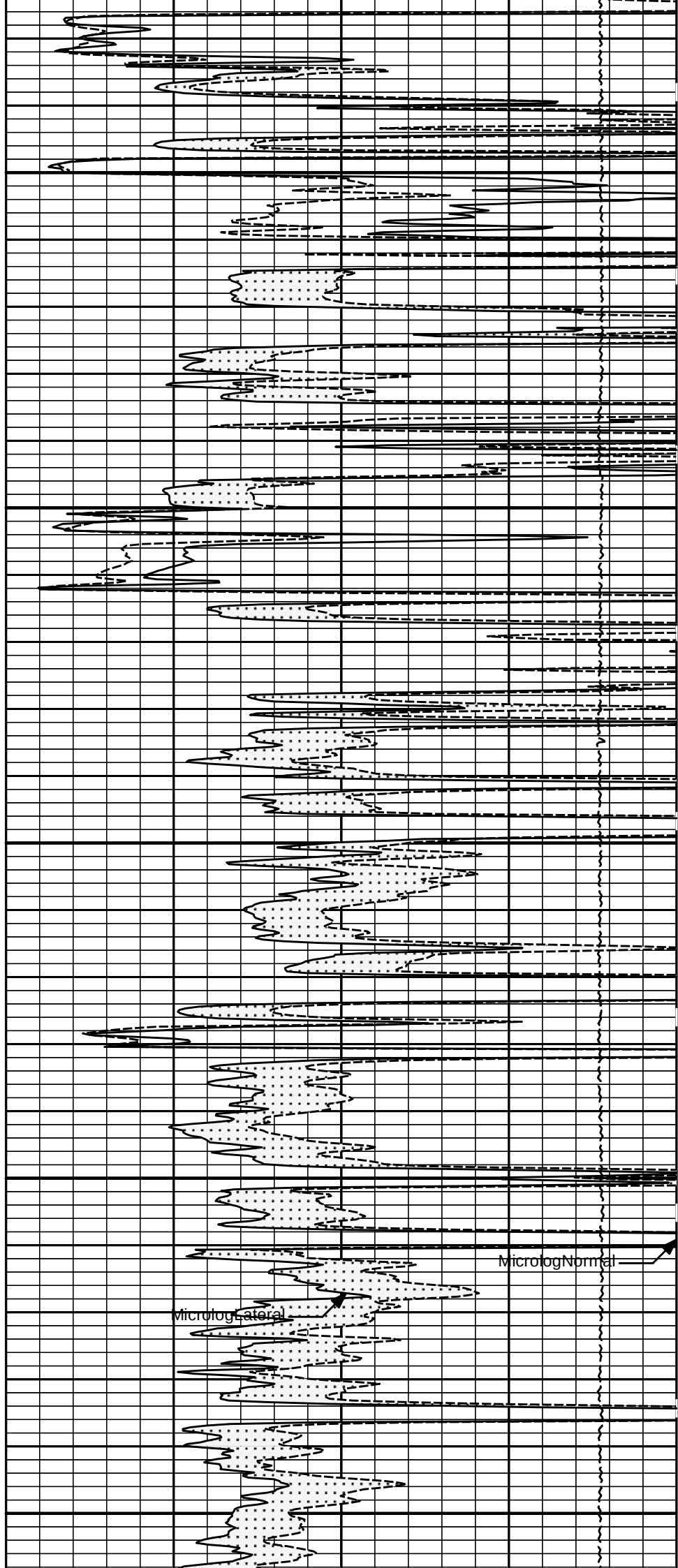


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3800

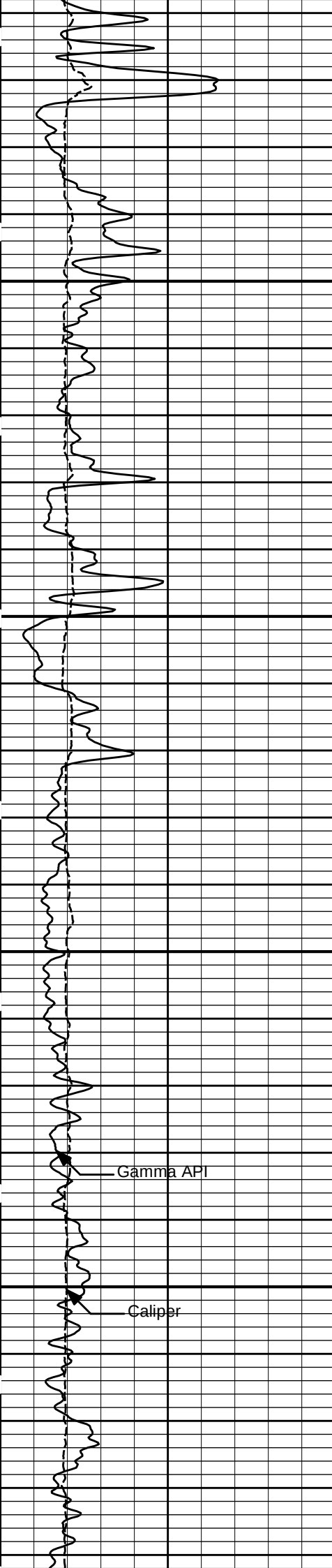
Gamma API

Caliper



Microlog Normal

Microlog Lateral

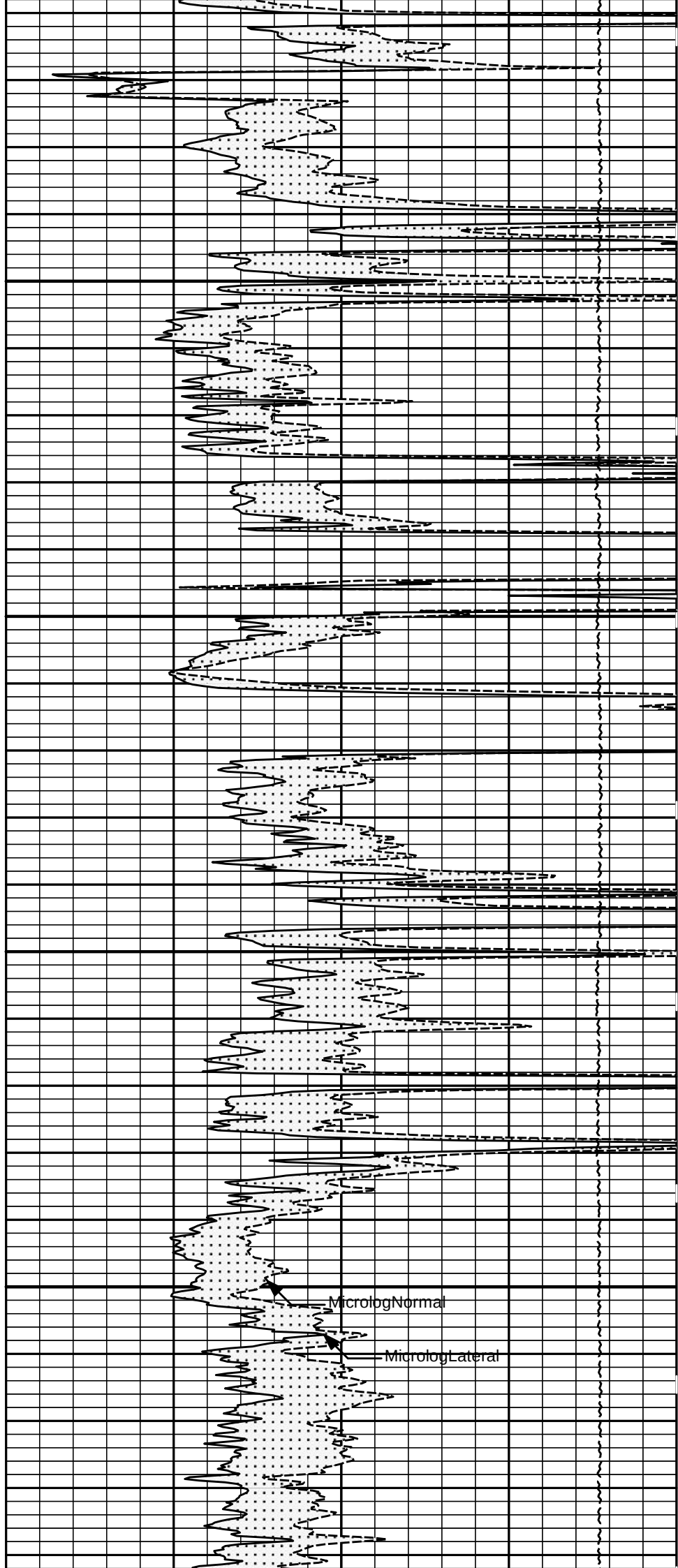


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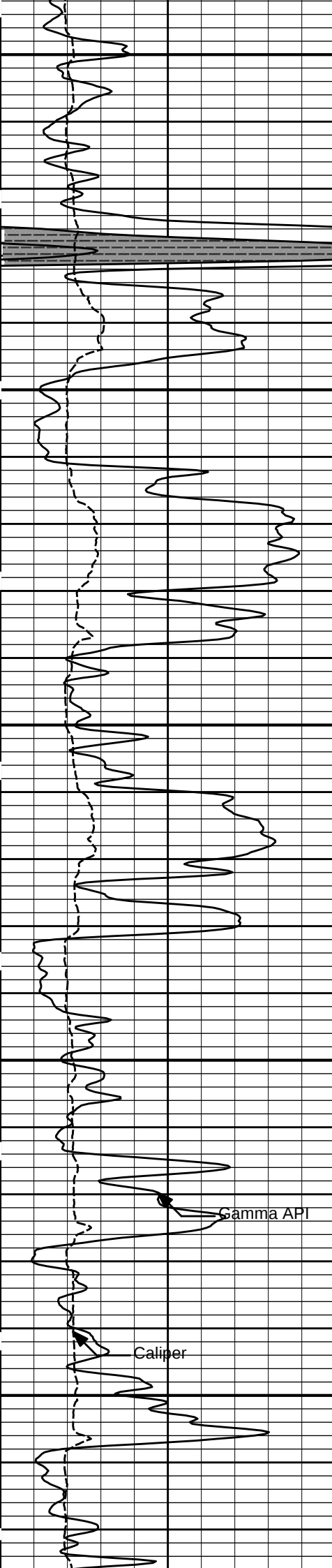
Gamma API

Caliper



MicrologNormal

MicrologLateral



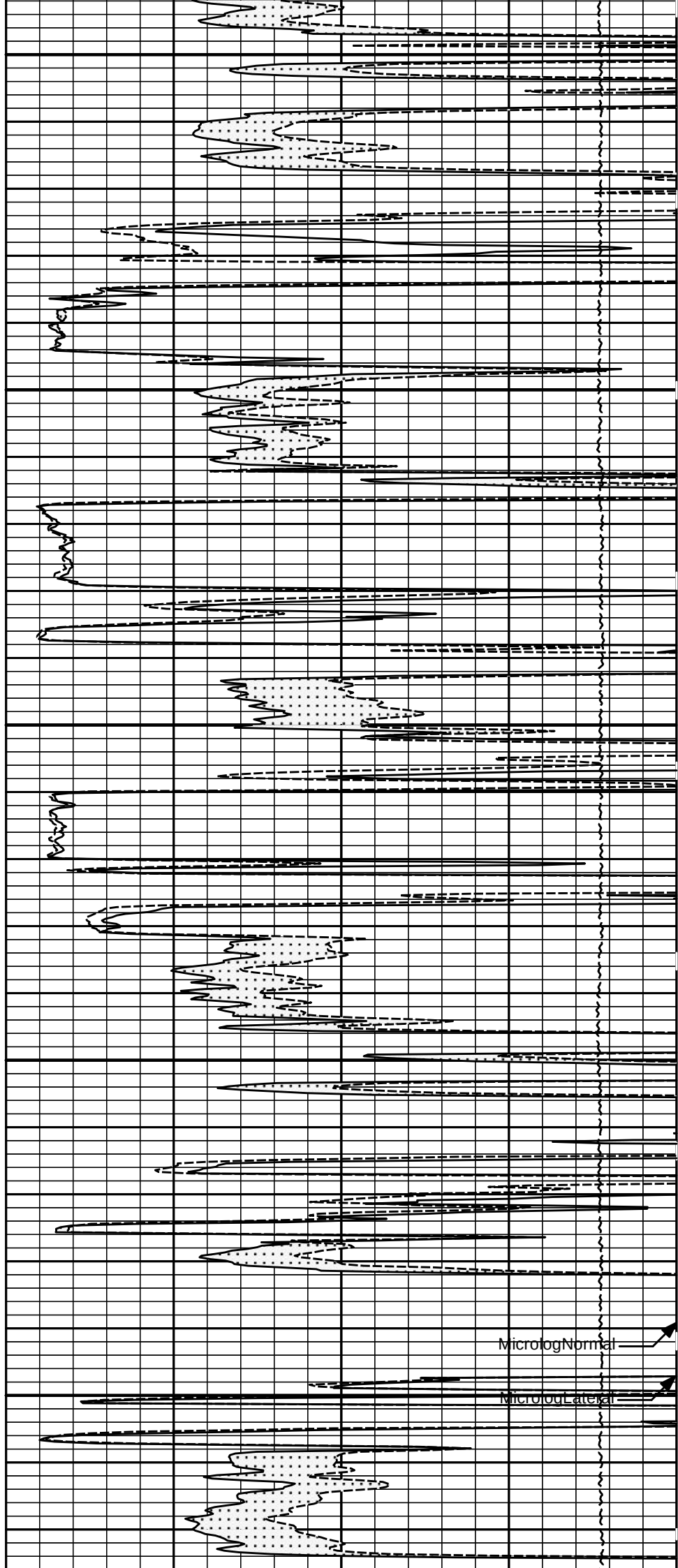
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4200

4300

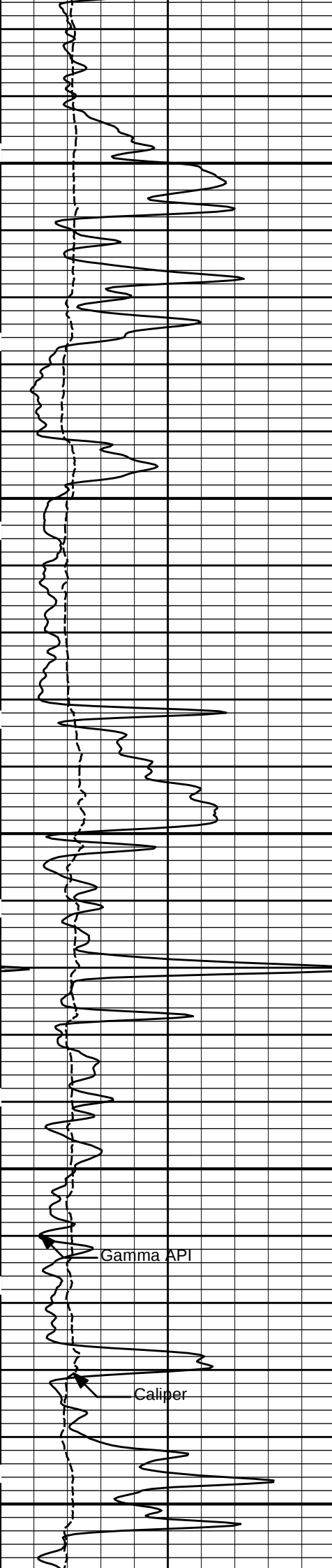
Caliper

Gamma API



MicrologNormal

MicrologLateral

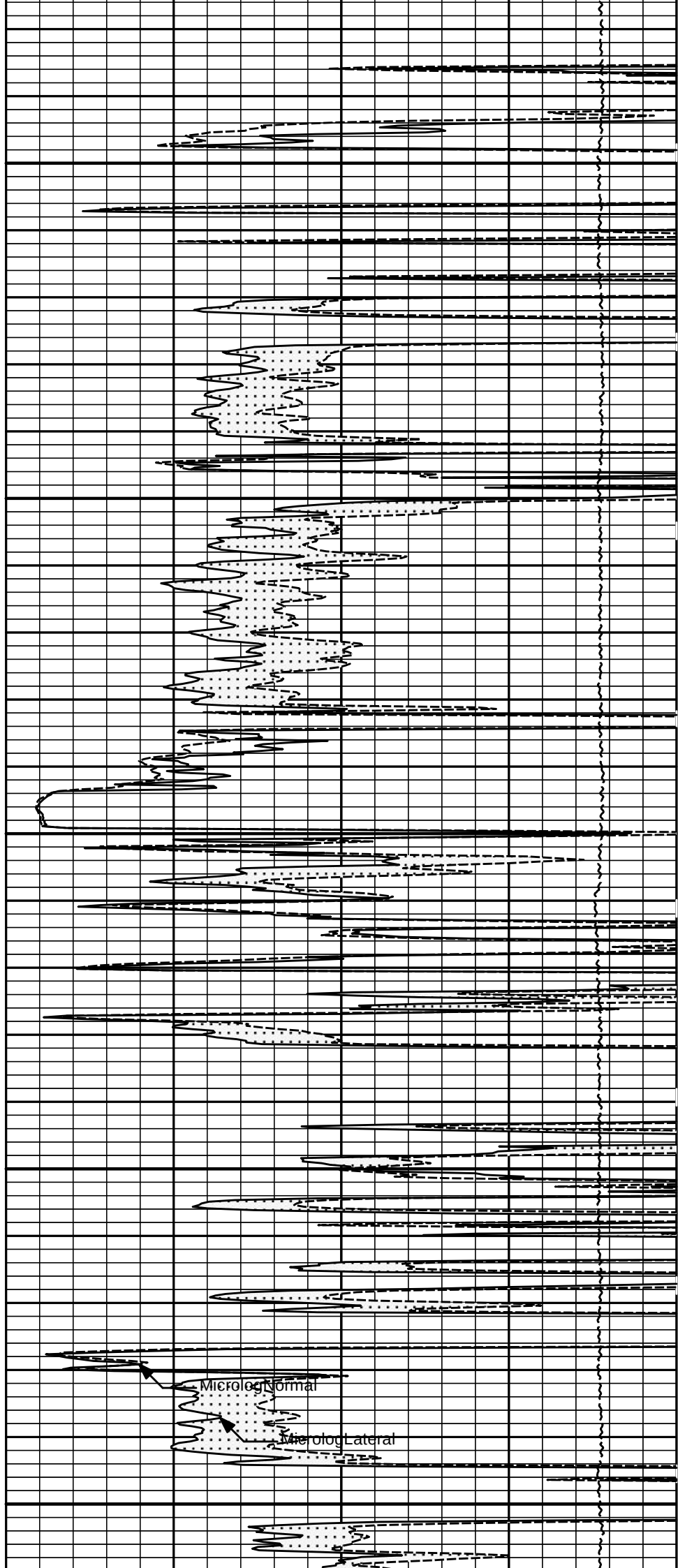


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4500

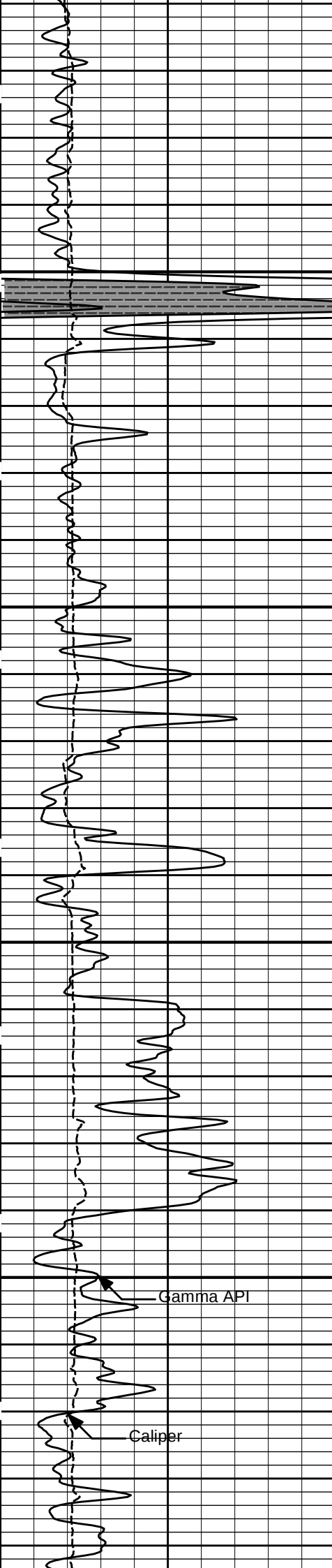
Gamma API

Caliper



Microlog Normal

Microlog Lateral

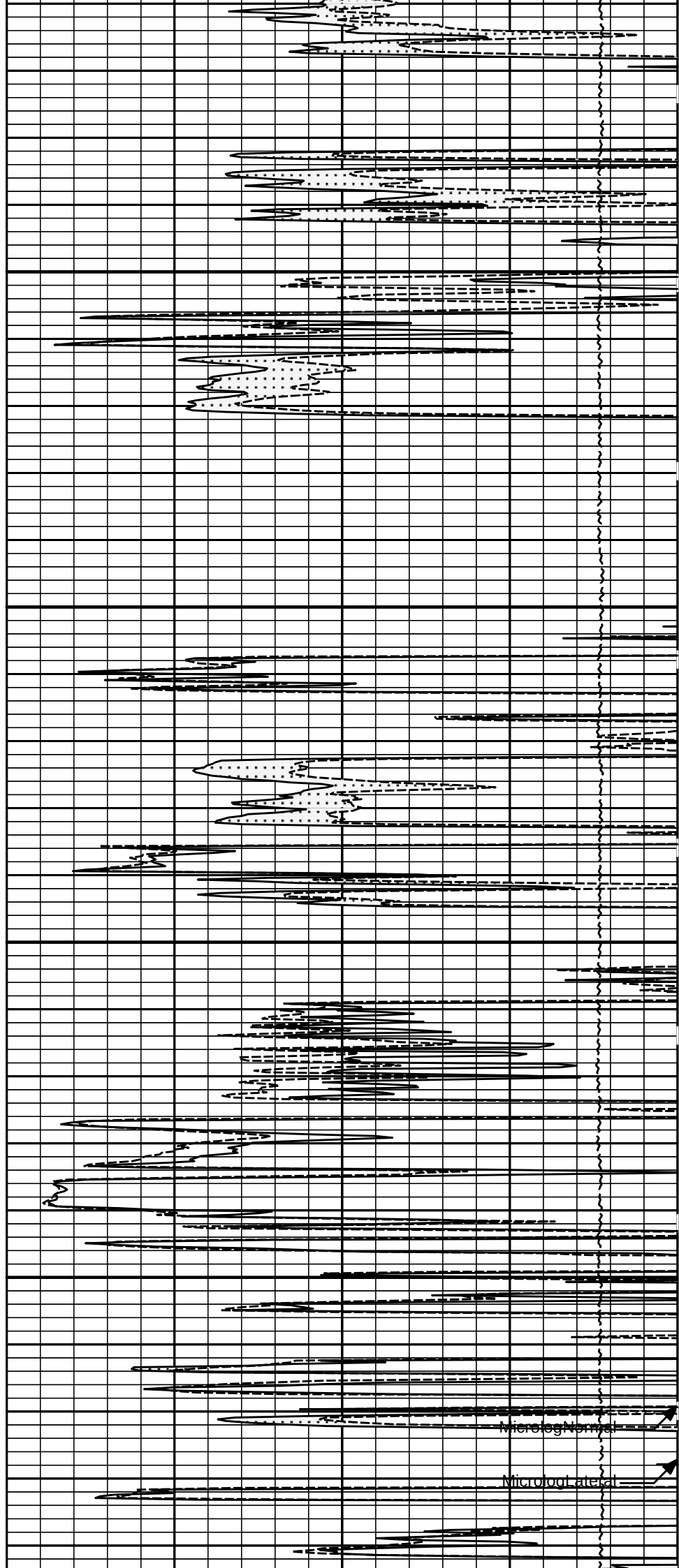


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4700

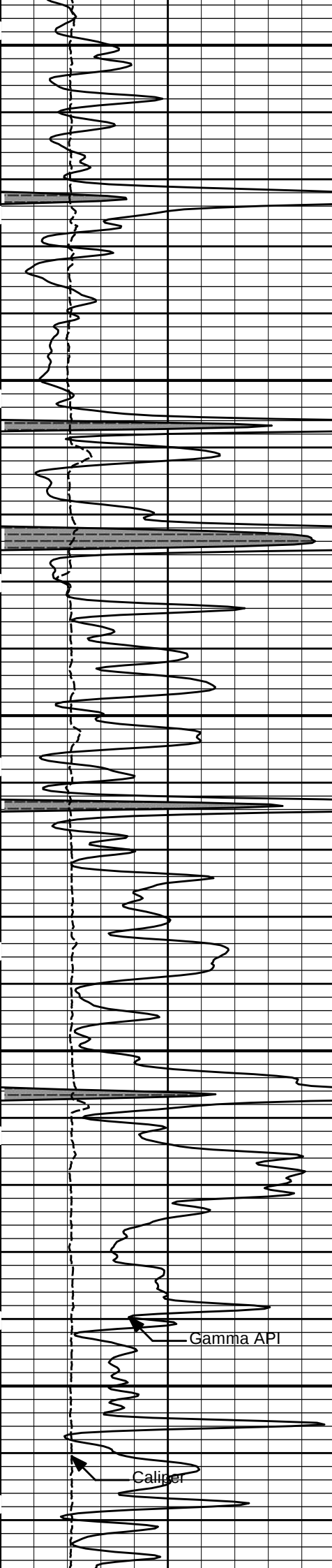
Gamma API

Caliper



Microlog Normal

Microlog Lateral



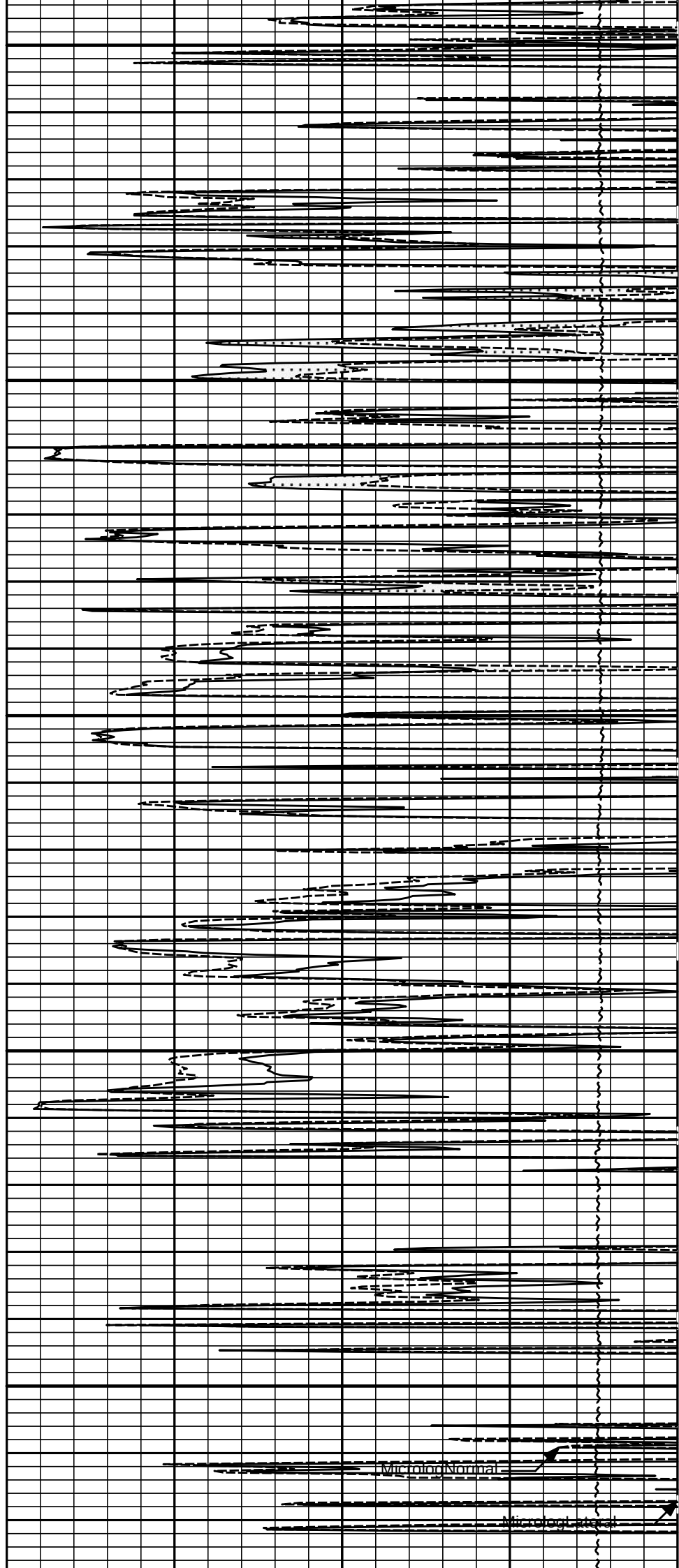
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4900

5000

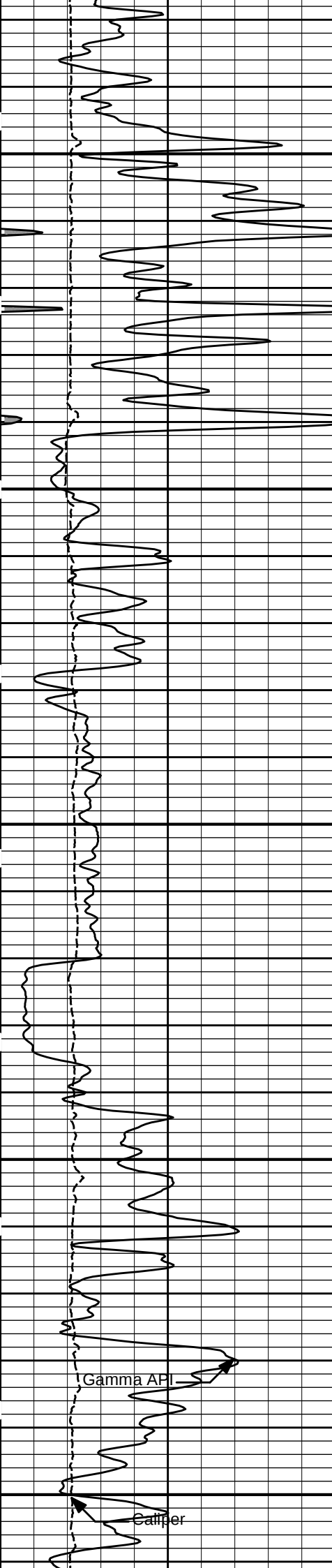
Gamma API

Caliper



Microlog Normal

Microlog Lateral

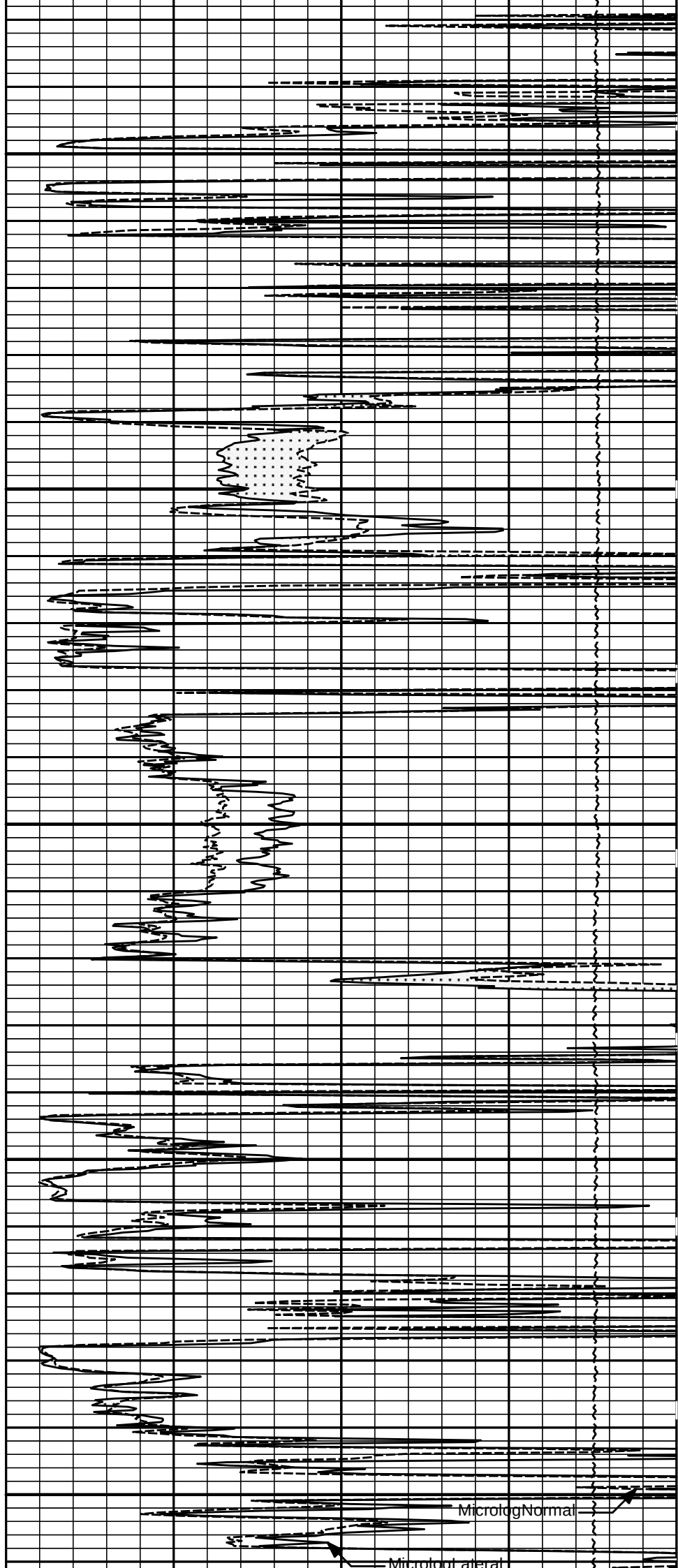


5100

5200

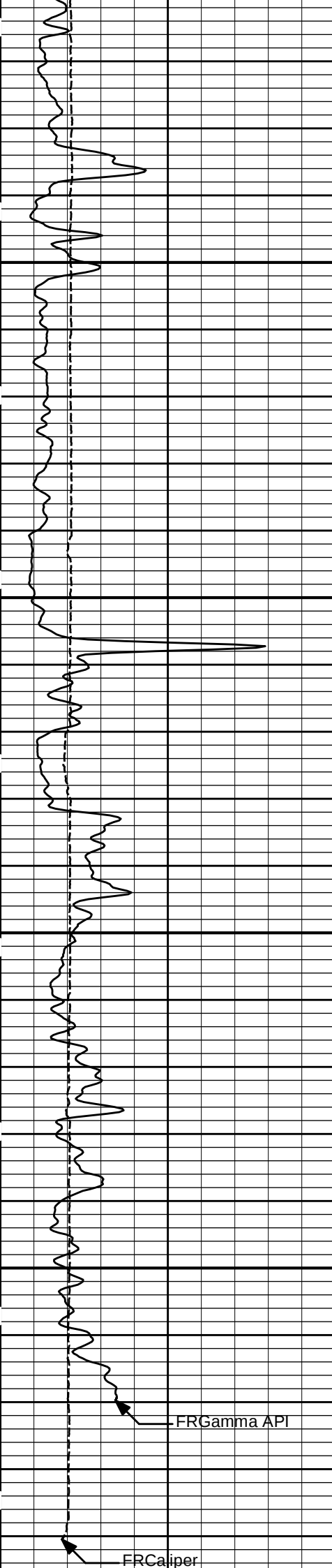
Gamma API

Caliper



MicrologNormal

Microlog lateral

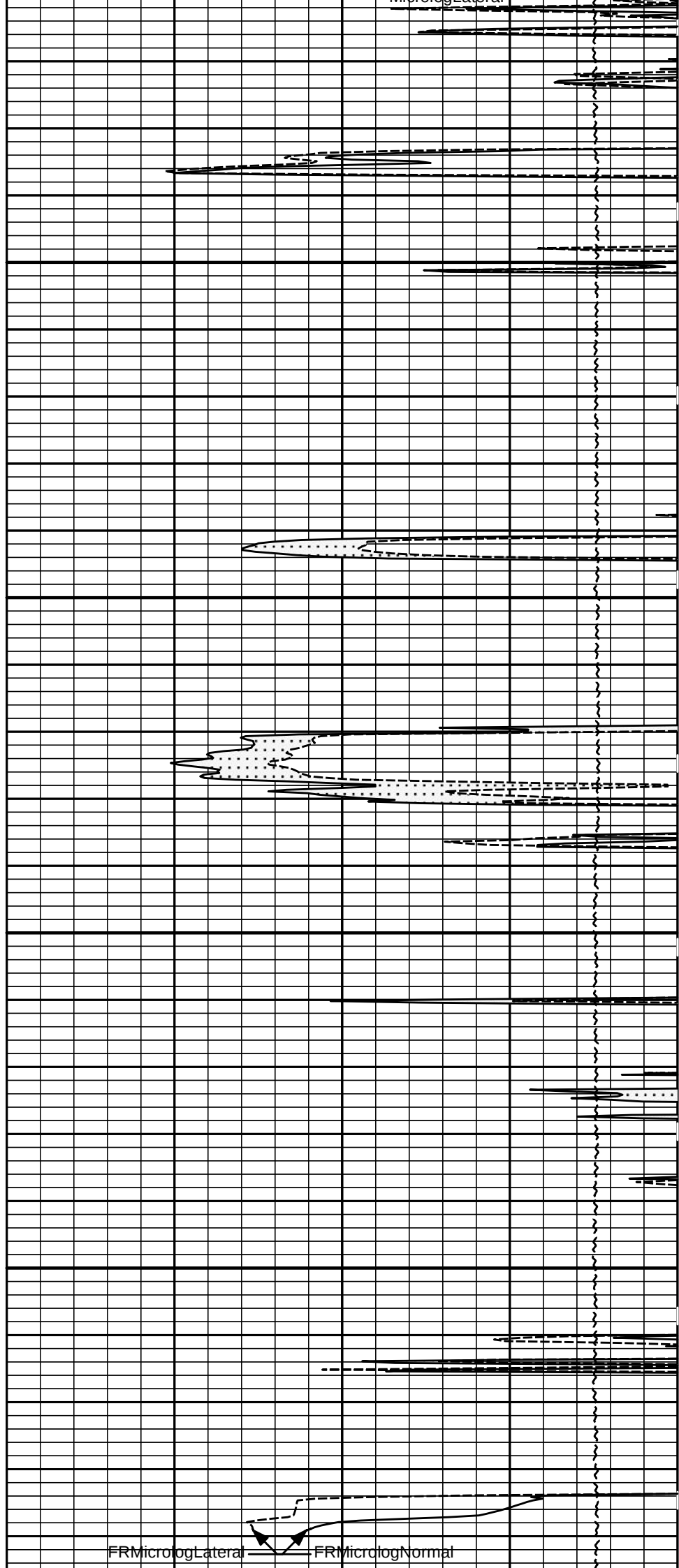


5300

5400

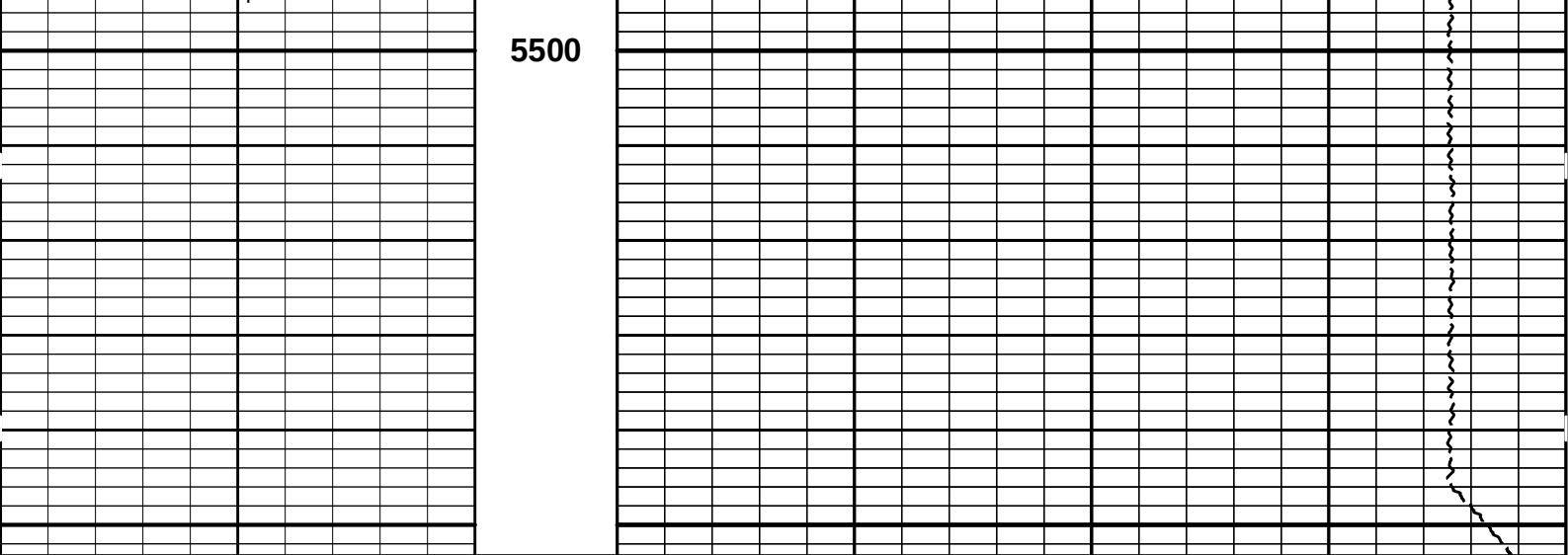
FRGamma API

FRCaliper



FRMicrologLateral

FRMicrologNormal



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

HALLIBURTON

Plot Time: 07-Mar-15 05:38:57
Plot Range: 2640 ft to 5553.25 ft
Data: S.TUCKER_1-19SWWell Based\DETAILS\
Plot File: \\-LOCAL-IS.TUCKER_1-19SWWell Based\MICROLOG\Microlog_IQ_5_main_lib

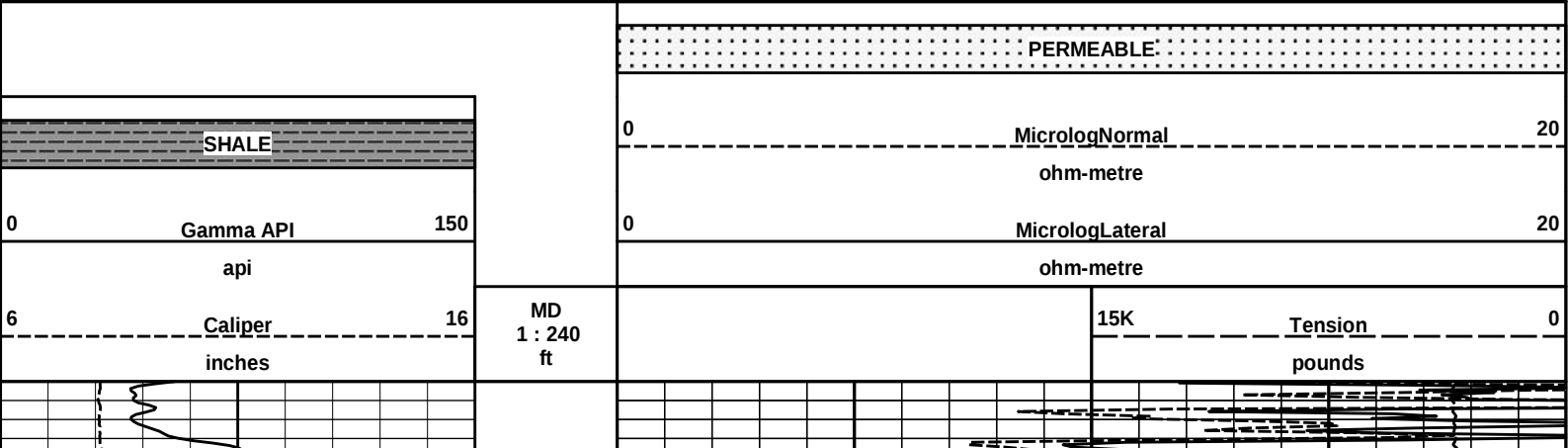
5 INCH MAIN LOG

MEASURED DEPTH
MAIN LOG 5" PER 100'

HALLIBURTON

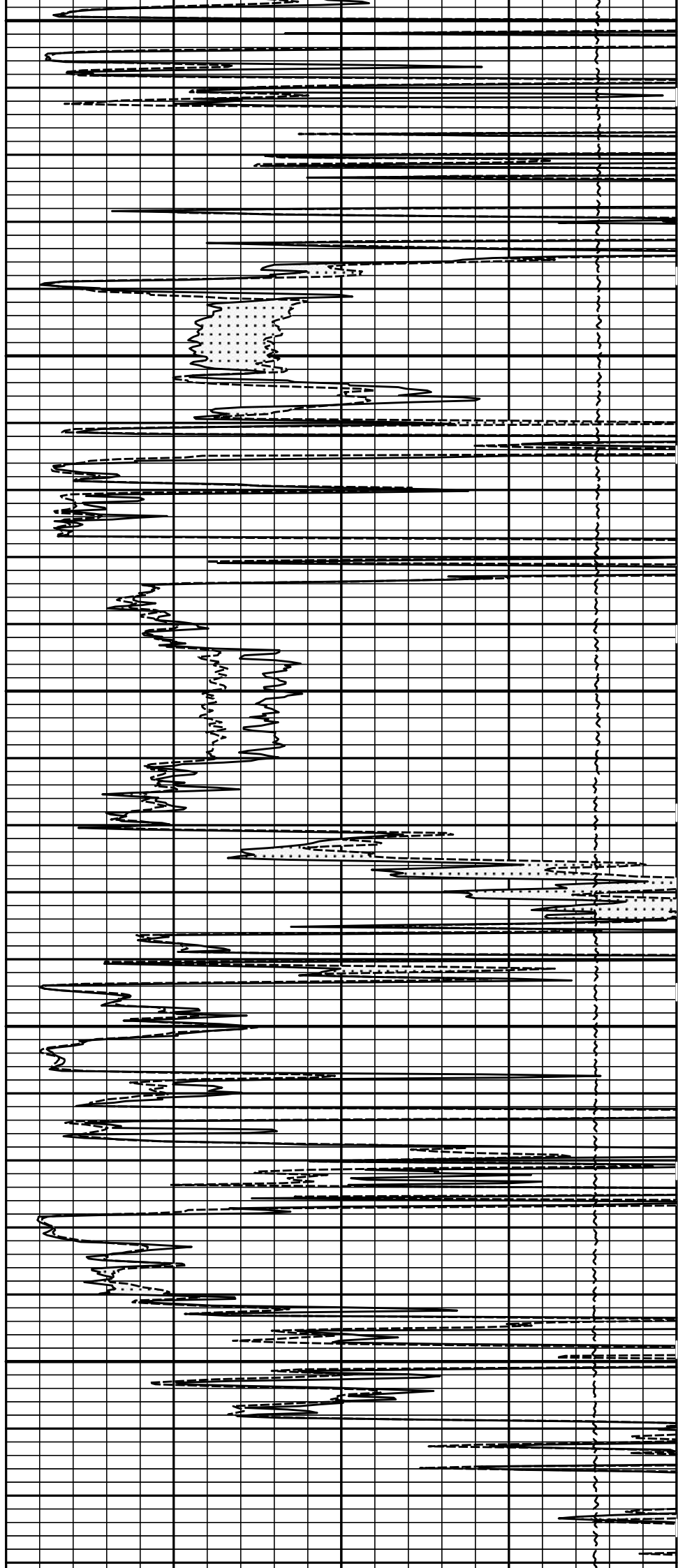
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Data: S.TUCKER_1-19SWWell Based\REPEAT\
Plot File: \\-LOCAL-IS.TUCKER_1-19SWWell Based\MICROLOG\Microlog_IQ_5_rep_lib

REPEAT SECTION

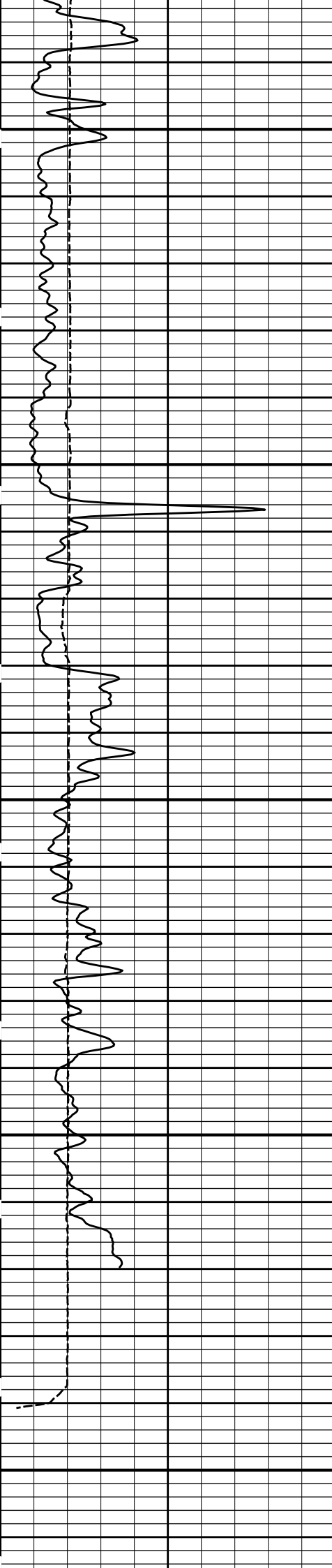




5100



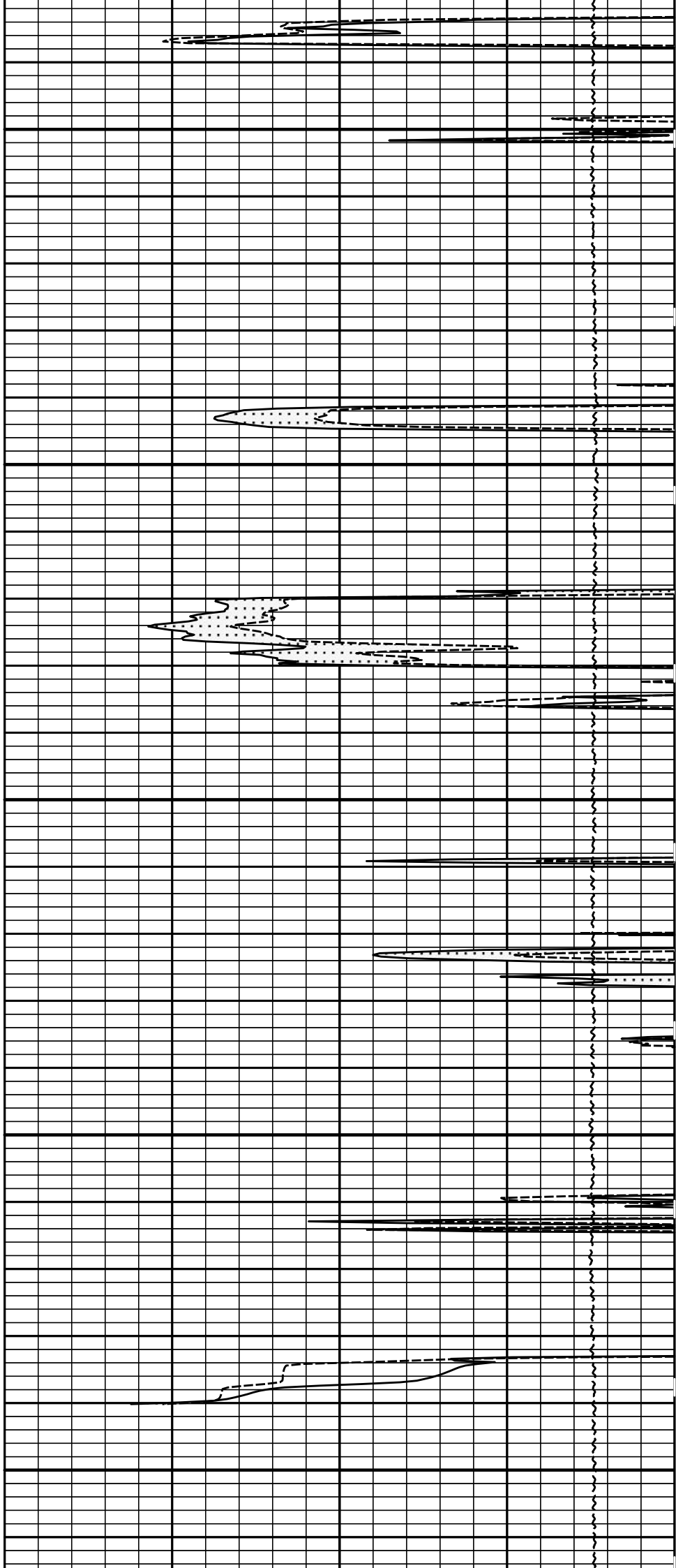
5200

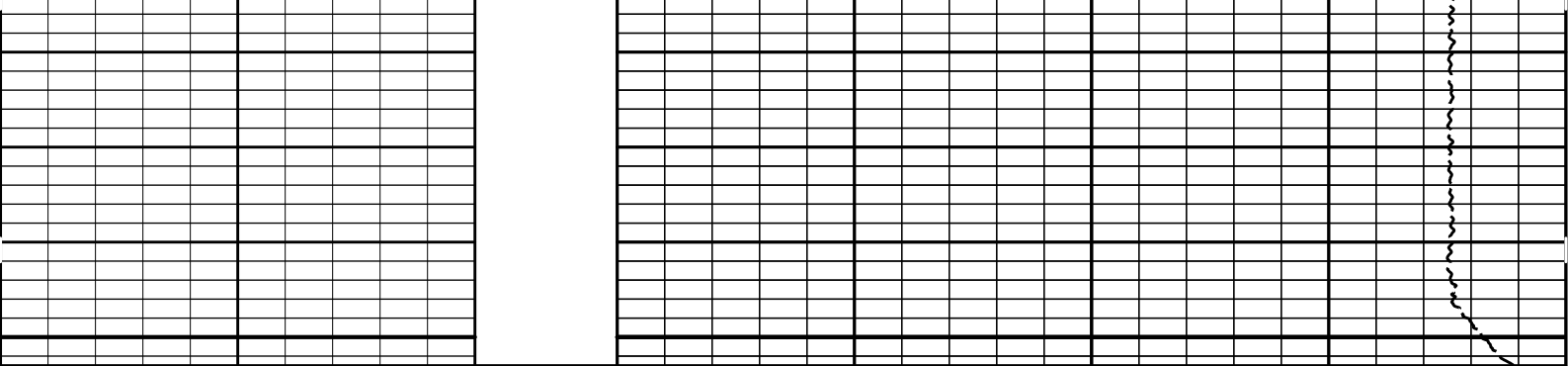


5300

5400

5500





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

HALLIBURTON

Plot Time: 07-Mar-15 05:38:58
Plot Range: 5040 ft to 5553 ft
Data: S.TUCKER_1-19SWWell Based\REPEAT\
Plot File: \\-LOCAL-\\S.TUCKER_1-19SWWell Based\MICROLOG\Microlog_IQ_5_rep_lib

REPEAT SECTION

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
RWCH-12156658 135.00 lbs		Ø 3.625 in →		← Load Cell @ 94.65 ft ← BH Temperature @ 94.08 ft	6.25 ft	98.33 ft
SP Sub-12345678 60.00 lbs		Ø 3.625 in →		← SP @ 90.30 ft	3.74 ft	92.08 ft
GTET-10811258 165.00 lbs		Ø 3.625 in →		← GammaRay @ 82.28 ft	8.52 ft	88.34 ft
DSN Decentralizer-10735145 6.60 lbs		Ø 5.000 in* →				79.82 ft
DSNT-10735145 174.00 lbs		Ø 3.625 in →			9.69 ft	

SDLT-10673803
360.00 lbs

SDLT Pad-10673790
65.00 lbs

Microlog Pad-10673803
8.00 lbs

Ø 4.500 in →

Ø 4.750 in* →

Ø 4.750 in* →

← DSN Far @ 72.89 ft

← DSN Near @ 72.14 ft

Microlog @ 62.32 ft

SDL Caliper @ 62.14 ft

SDL @ 62.13 ft

10.81 ft

70.14 ft

Flex Joint-12345678
140.00 lbs

Ø 3.625 in →

5.67 ft

59.32 ft

WSTT-I Upper
Electronics-
10855599
115.00 lbs

Ø 3.625 in →

8.31 ft

53.65 ft

45.34 ft

WSTT-I Trans-
Isolator - Std-
10055645
185.00 lbs

Ø 3.625 in →

10.86 ft

34.48 ft

WSTT-I Receivers-
10055644
100.00 lbs

Ø 3.625 in →

← Wavesonic Delay @ 31.08 ft

6.65 ft

27.83 ft

WSTT-I Lower
Electronics-
10855601
120.00 lbs

Ø 3.625 in →

8.25 ft

19.58 ft

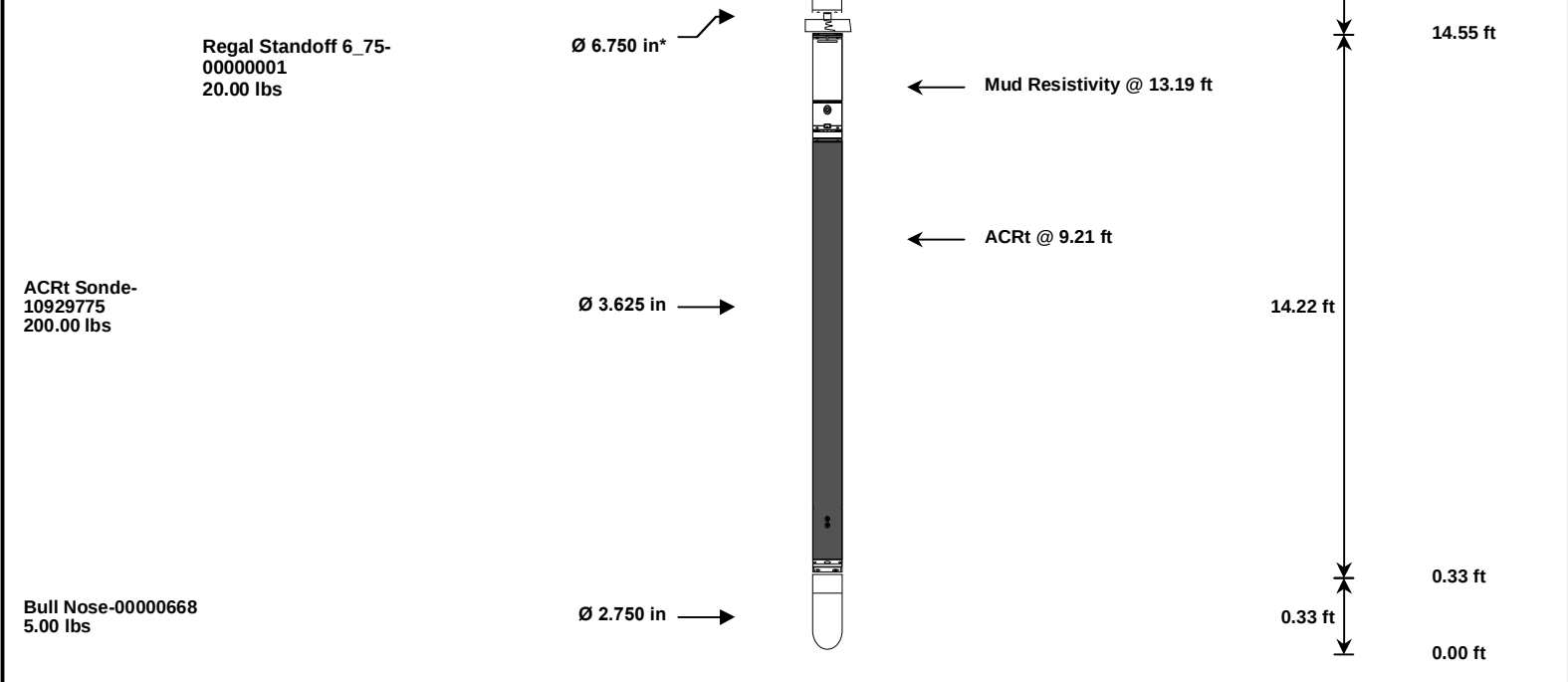
ACRt Instrument-
10929776
50.00 lbs

Centralizer 25-00000001
8.00 lbs

Ø 4.000 in* →

Ø 3.625 in →

5.03 ft



Mnemonic		Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
RWCH	Releasable Wireline Cable Head		12156658	135.00	6.25	92.08	300.00
SP	SP Sub		12345678	60.00	3.74	88.34	300.00
GTET	Gamma Telemetry Tool		10811258	165.00	8.52	79.82	60.00
DSNT	Dual Spaced Neutron		10735145	174.00	9.69	70.14	60.00
DCNT	DSN Decentralizer		10735145	6.60	5.13	*	73.47 300.00
SDLT	Spectral Density Tool		10673803	360.00	10.81	59.32	60.00
SDLP	Density Insite Pad		10673790	65.00	2.55	*	61.53 60.00
MICP	Microlog Pad		10673803	8.00	1.00	*	61.82 60.00
FLEX	Flex Joint		12345678	140.00	5.67	53.65	300.00
WSTT	WaveSonic Insite - Upper Electronics		10855599	115.00	8.31	45.34	100.00
WSTT	WaveSonic Insite - Trans-Isolator - Std		10055645	185.00	10.86	34.48	100.00
WSTT	WaveSonic Insite - Receivers		10055644	100.00	6.65	27.83	30.00
WSTT	WaveSonic Insite - Lower Electronics		10855601	120.00	8.25	19.58	100.00
ACRt	Array Compensated True Resistivity Instrument Section		10929776	50.00	5.03	14.55	120.00
OBCEN	Centralizer - 25 in. Overbody		00000001	8.00	2.08	*	16.57 300.00
ACRt	Array Compensated True Resistivity Sonde Section		10929775	200.00	14.22	0.33	120.00
RSOF	Regal Standoff 6.75in		00000001	20.00	0.52	*	14.53 300.00
BLNS	Bull Nose		00000668	5.00	0.33	0.00	300.00
Total				1,916.60	98.33		
* Not included in Total Length and Length Accumulation.							
Data: S.TUCKER_1-19SWI0001 SP-GTET-DSNT-SDLT-FLEX-WSTT-ACRT-BNIDLE							
Date: 07-Mar-15 01:28:30							

HALLIBURTON

PARAMETERS REPORT

Depth (ft)	Tool Name	Mnemonic	Description	Value	Units
TOP					
	SHARED	CSD	Logging Interval is Cased?	Yes	
	SHARED	CSOD	Inner Casing OD size	8.625	in
	SHARED	CSWT	Casing Weight	24.00	lbpf
	SHARED	ISOC	Is Outer Casing Present?	No	
	SHARED	CSCM	Casing Cemented	Yes	
	SHARED	CMWT	Cement Weight	16.500	ppg
1832.00					
	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	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	2.000	ohmm
SHARED	TRM	Temperature of Mud	55.0	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	5550.00	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	
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	
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	
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	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	
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	
WSTT-I Receivers	WSOK	Process WSTT?	Yes	
WSTT-I Receivers	AFIL	Adaptive Filtering?	No	
WSTT-I Receivers	PINT	Process 1 Sample and Skip	0	
WSTT-I	PROM	Process Mode: M=1 MX=2 MY=3 MXY=4	4	

Receivers	Process Mode: M=1, MX=2, MT=3, MXT=4			
WSTT-I Receivers	DTSH	Delta -T Shale	100.00	uspf
WSTT-I Receivers	DTMT	Delta -T Matrix Type	User define	
WSTT-I Receivers	DTMA	Delta -T Matrix	47.60	uspf
WSTT-I Receivers	DTFL	Delta -T Fluid	189.00	uspf
WSTT-I Receivers	RHOM	Matrix Density	2.7100	g/cc
WSTT-I Receivers	RHOF	Fluid Density	1.0000	g/cc
WSTT-I Receivers	SMTH	Semblance Threshold	0.25	
WSTT-I Receivers	VPVS	VPVS Ratio for Porosity	1.40	
WSTT-I Receivers	APEQ	Acoustic Porosity Equation	Wylie	
WSTT-I Receivers	NAVS	Navigation Source Tool	NONE	
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	
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: S.TUCKER_1-19SW0001 SP-GTET-DSNT-SDLT-FLEX-WSTT-ACRT-BNIDLE				Date: 07-Mar-15 02:44:23

HALLIBURTON				
CALIBRATION REPORT				
NATURAL GAMMA RAY TOOL SHOP CALIBRATION				
Tool Name:	GTET - 10811258	Reference Calibration Date:	03-Oct-14 18:51:39	
Engineer:	JORGE ORLANDO PEREZ	Calibration Date:	28-Jan-15 10:19:36	
Software Version:	WL INSITE R4.4.3 (Build 6)	Calibration Version:	1	
Calibrator Source S/N: TB-185				
Calibrator API Reference:228.00 api				
Equivalent Calibrator API Reference:232.0 api				
Measurement	Measured	Calibrated	Units	
Background	44.7	44.8	api	
Background + Calibrator	275.8	276.8	api	
Calibrator	231.2	232.0	api	
NATURAL GAMMA RAY TOOL FIELD CALIBRATION				
Tool Name:	GTET - 10811258	Reference Calibration Date:	28-Jan-15 10:19:36	
Engineer:	JORGE ORLANDO PEREZ	Calibration Date:	03-Mar-15 14:09:26	
Software Version:	WL INSITE R4.6.4 (Build 3)	Calibration Version:	1	
Calibrator Source S/N: TB-185				
Calibrator API Reference:228.00 api				
Equivalent Calibrator API Reference:232.0 api				

Field Verification		Shop	Field	Units
Background		44.8	38.6	api
Background + Calibrator		276.8	264.5	api
Calibrator		232.0	225.9	api
Shop		Field	Difference	Tolerance
232.0		225.9	6.1	+/- 9.00

DENSITY CALIPER SHOP CALIBRATION				
Tool Name:	SDLT - 10673803		Reference Calibration Date:	17-Nov-14 10:23:04
Engineer:	JORGE ORLANDO PEREZ		Calibration Date:	06-Jan-15 11:10:53
Software Version:	WL INSITE R4.4.3 (Build 6)		Calibration Version:	1
Host Tool Name:	DSNT - 10735145			

CALIBRATION COEFFICIENTS				
Measurement	Previous Value	New Value	Control Limit On New Value	
Pad Offset	-3053.35	-2998.86	-7000.00 - -1000.00	
Pad Gain	0.0003748	0.0003859	0.000200 - 0.000600	
Arm Offset	-4973.87	-4834.66	-5000.00 - 3000.00	
Arm Gain	0.0005142	0.0004778	0.000300 - 0.000700	
Arm Power	-0.000004974	-0.000002882	-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)	1.92	2.00	0.08	+/- 0.20
Medium Ring (in)	3.62	3.75	0.13	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.54	6.50	-0.04	+/- 0.20
Medium Ring (in)	8.37	8.25	-0.12	+/- 0.20
Large Ring (in)	15.13	15.00	-0.13	+/- 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 - 10673803		Reference Calibration Date:	06-Jan-15 11:10:53
Engineer:	JORGE ORLANDO PEREZ		Calibration Date:	03-Mar-15 14:05:36
Software Version:	WL INSITE R4.6.4 (Build 3)		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	8.34	0.09	+/- 0.15
PASS/FAIL SUMMARY				
Pad Extension Check:			Passed	
Diameter Check:			Passed	

MICRO LOG SHOP CALIBRATION				
Tool Name:	Microlog Pad - 10673803		Reference Calibration Date:	17-Nov-14 10:30:27

BS	Bit Size	98.33	NO	
HDIA	Measured Hole Diameter	0.00	NO	
RWCH				
DHTN	DownholeTension	0.00	BLK	0.000
SP Sub				
PLTC	Plot Control Mask	90.30	NO	
SP	Spontaneous Potential	90.30	BLK	1.250
SPR	Raw Spontaneous Potential	90.30	NO	
SPO	Spontaneous Potential Offset	90.30	NO	
GTET				
TPUL	Tension Pull	82.28	NO	
GR	Natural Gamma Ray API	82.28	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	82.28	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	82.28	W	1.416 , 0.750
HDIA	Measured Hole Diameter	0.00	NO	
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	
DSNT				
TPUL	Tension Pull	72.04	NO	
RNDS	Near Detector Telemetry Counts	72.14	BLK	1.417
RFDS	Far Detector Telemetry Counts	72.89	TRI	0.583
DNTT	DSN Tool Temperature	72.14	NO	
DSNS	DSN Tool Status	72.04	NO	
ERND	Near Detector Telemetry Counts EVR	72.14	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	72.89	BLK	0.000
ENTM	DSN Tool Temperature EVR	72.14	NO	
HDIA	Measured Hole Diameter	0.00	NO	
SDLT				
TPUL	Tension Pull	62.14	NO	
PCAL	Pad Caliper	62.14	TRI	0.250
ACAL	Arm Caliper	62.14	TRI	0.250
WSTT-I Receivers				
TPUL	Tension Pull	31.08	NO	
DPSX	Dipole Source X StructureI	27.83	NO	
DPSY	Dipole Source Y StructureI	27.83	NO	
DPSM	Monopole Source Structure	27.83	NO	
WVST	Wavesonic Compressed Data	31.08	NO	
TPUL	Tension Pull	31.08	NO	
XMS1	Wave Sonic Status Word 1	27.83	NO	
XMS2	Wave Sonic Status Word 2	27.83	NO	
XMS1	Wave Sonic XMITStatus Word 1	27.83	NO	
XMS1	Wave Sonic XMITStatus Word 2	27.83	NO	
F1HA	Dipole 1 HV After	27.83	NO	
F1HB	Dipole 1 HV Before	27.83	NO	
F2HA	Dipole 2 HV After	27.83	NO	
F2HB	Dipole 2 HV Before	27.83	NO	
F3HA	Monopole HV After	27.83	NO	
F3HB	Monopole HV Before	27.83	NO	
INVT	Input Voltage	27.83	NO	
5VOL	5 Volts	27.83	NO	
MI5A	Minus 5 Volts Analog	27.83	NO	
ITMP	Instrument Temperature	27.83	NO	
PL5A	Plus 5 Volts Analog	27.83	NO	
5VDS	Plus 5 Volts Digital	27.83	NO	

SVD	Plus 5 Volts Digital	27.83	NO
TCUR	Tool Current	27.83	NO
SUPV	Supply Voltage	27.83	NO
PRVT	Preregulated voltage	27.83	NO
PRVT	Pre-regulated voltage Xmter	27.83	NO
TEMP	Temperature	27.83	NO
ACQN	Acquisition Number	27.83	NO
XDP	Delay Reference	31.08	NO
MITM	MIT Mode	31.08	NO
VERS	Version	27.83	NO
D1CT	Dipole 1 Compressed Word Count	31.08	NO
D2CT	Dipole 2 Compressed Word Count	31.08	NO
MCNT	Monopole Compressed Word Count	31.08	NO
SEQN	Sequence Number	27.83	NO
FREV	Firmware Revision	27.83	NO
MSMP	Monopole Sample Rate	27.83	NO
MSMP	Dipole Sample Rate	27.83	NO
MFWF	Monopole Firing Waveform	27.83	NO
MFRQ	Monopole Frequency	27.83	NO
MDLY	Monopole Delay	27.83	NO
DXWF	Dipole X Firing Waveform	27.83	NO
XFRQ	Dipole X Frequency	27.83	NO
XDLY	Dipole X Delay	27.83	NO
DYWF	Dipole Y Firing Waveform	27.83	NO
YFRQ	Dipole Y Frequency	27.83	NO
YDLY	Dipole Y Delay	27.83	NO
DPSX	Dipole Source X StructureI	27.83	NO
DPSY	Dipole Source Y StructureI	27.83	NO
DPSM	Monopole Source Structure	27.83	NO
WVST	Wavesonic Compressed Data	31.08	NO
AUTM	Auto Mode	27.83	NO
SONM	tool mode for sonic - 0 for normal or 3 for calibration	27.83	NO
MSL	Monopole Lower Travel Time	31.08	NO
MSH	Monopole Upper Travel Time	31.08	NO
MLFC	Monopole-1 Lower Filter Bandpass Frequency Cut-off	27.83	NO
MUFC	Monopole-1 Upper Filter Bandpass Frequency Cut-off	27.83	NO
DLTT	Dipole Lower Travel Time	27.83	NO
DUTT	Dipole Upper Travel Time	27.83	NO
DLFC	Dipole Lower Filter Bandpass Frequency Cut-off	27.83	NO
DUFC	Dipole Upper Filter Bandpass Frequency Cut-off	27.83	NO
MUTE	WaveSonic Mute/Enable Channels and Sides map	27.83	NO
MUTS	Mute/Enable Sides	27.83	NO
WSRB	Relative Bearing	31.08	NO
WSAZ	WSX Azimuth Pad 1	31.08	NO
TPUL	Tension Pull	31.08	NO
WMP	Summed array of Monopole for SIDES - A,B,C,D	31.08	NO
WXX	Dipole X for SIDES - A-C	31.08	NO
WYY	Dipole Y for SIDES - B-D	31.08	NO
WXY	Dipole X for SIDES - B-D	31.08	NO
WYX	Dipole Y for SIDES - A-C	31.08	NO
TPUL	Tension Pull	31.08	NO
WMA	Monopole Waveform Side A - Channel 1 to Channel 8 Receivers	31.08	NO
WMB	Monopole Waveform Side B - Channel 1 to Channel 8 Receivers	31.08	NO
WMC	Monopole Waveform Side C - Channel 1 to Channel 8 Receivers	31.08	NO
WMD	Monopole Waveform Side D - Channel 1 to Channel 8 Receivers	31.08	NO
WXA	Dipole X Waveform Side A - Channel 1 to Channel 8 Receivers	31.08	NO
	Dipole Y Waveform Side B - Channel 1 to Channel 8 Receivers		

WXB	Dipole X Waveform Side B - Channel 1 to Channel 8 Receivers	31.08	NO	
WXC	Dipole X Waveform Side C - Channel 1 to Channel 8 Receivers	31.08	NO	
WXD	Dipole X Waveform Side D - Channel 1 to Channel 8 Receivers	31.08	NO	
WYA	Dipole Y Waveform Side A - Channel 1 to Channel 8 Receivers	31.08	NO	
WYB	Dipole Y Waveform Side B - Channel 1 to Channel 8 Receivers	31.08	NO	
WYC	Dipole Y Waveform Side C - Channel 1 to Channel 8 Receivers	31.08	NO	
WYD	Dipole Y Waveform Side D - Channel 1 to Channel 8 Receivers	31.08	NO	
GAR1	Gain Side A Receiver 1	27.83	NO	
GAR2	Gain Side A Receiver 2	27.83	NO	
GAR3	Gain Side A Receiver 3	27.83	NO	
GAR4	Gain Side A Receiver 4	27.83	NO	
GAR5	Gain Side A Receiver 5	27.83	NO	
GAR6	Gain Side A Receiver 6	27.83	NO	
GAR7	Gain Side A Receiver 7	27.83	NO	
GAR8	Gain Side A Receiver 8	27.83	NO	
GBR1	Gain Side B Receiver 1	27.83	NO	
GBR2	Gain Side B Receiver 2	27.83	NO	
GBR3	Gain Side B Receiver 3	27.83	NO	
GBR4	Gain Side B Receiver 4	27.83	NO	
GBR5	Gain Side B Receiver 5	27.83	NO	
GBR6	Gain Side B Receiver 6	27.83	NO	
GBR7	Gain Side B Receiver 7	27.83	NO	
GBR8	Gain Side B Receiver 8	27.83	NO	
GCR1	Gain Side C Receiver 1	27.83	NO	
GCR2	Gain Side C Receiver 2	27.83	NO	
GCR3	Gain Side C Receiver 3	27.83	NO	
GCR4	Gain Side C Receiver 4	27.83	NO	
GCR5	Gain Side C Receiver 5	27.83	NO	
GCR6	Gain Side C Receiver 6	27.83	NO	
GCR7	Gain Side C Receiver 7	27.83	NO	
GCR8	Gain Side C Receiver 8	27.83	NO	
GDR1	Gain Side D Receiver 1	27.83	NO	
GDR2	Gain Side D Receiver 2	27.83	NO	
GDR3	Gain Side D Receiver 3	27.83	NO	
GDR4	Gain Side D Receiver 4	27.83	NO	
GDR5	Gain Side D Receiver 5	27.83	NO	
GDR6	Gain Side D Receiver 6	27.83	NO	
GDR7	Gain Side D Receiver 7	27.83	NO	
GDR8	Gain Side D Receiver 8	27.83	NO	
ACRt Sonde				
TPUL	Tension Pull	2.73	NO	
F1R1	ACRT 12KHz - 80in R value	8.98	BLK	0.000
F1X1	ACRT 12KHz - 80in X value	8.98	BLK	0.000
F1R2	ACRT 12KHz - 50in R value	6.48	BLK	0.000
F1X2	ACRT 12KHz - 50in X value	6.48	BLK	0.000
F1R3	ACRT 12KHz - 29in R value	4.98	BLK	0.000
F1X3	ACRT 12KHz - 29in X value	4.98	BLK	0.000
F1R4	ACRT 12KHz - 17in R value	3.98	BLK	0.000
F1X4	ACRT 12KHz - 17in X value	3.98	BLK	0.000
F1R5	ACRT 12KHz - 10in R value	3.48	BLK	0.000
F1X5	ACRT 12KHz - 10in X value	3.48	BLK	0.000
F1R6	ACRT 12KHz - 6in R value	3.23	BLK	0.000
F1X6	ACRT 12KHz - 6in X value	3.23	BLK	0.000
F2R1	ACRT 36KHz - 80in R value	8.98	BLK	0.000
F2X1	ACRT 36KHz - 80in X value	8.98	BLK	0.000

F2X1	ACRT 36KHz - 80in X value	8.98	BLK	0.000
F2R2	ACRT 36KHz - 50in R value	6.48	BLK	0.000
F2X2	ACRT 36KHz - 50in X value	6.48	BLK	0.000
F2R3	ACRT 36KHz - 29in R value	4.98	BLK	0.000
F2X3	ACRT 36KHz - 29in X value	4.98	BLK	0.000
F2R4	ACRT 36KHz - 17in R value	3.98	BLK	0.000
F2X4	ACRT 36KHz - 17in X value	3.98	BLK	0.000
F2R5	ACRT 36KHz - 10in R value	3.48	BLK	0.000
F2X5	ACRT 36KHz - 10in X value	3.48	BLK	0.000
F2R6	ACRT 36KHz - 6in R value	3.23	BLK	0.000
F2X6	ACRT 36KHz - 6in X value	3.23	BLK	0.000
F3R1	ACRT 72KHz - 80in R value	8.98	BLK	0.000
F3X1	ACRT 72KHz - 80in X value	8.98	BLK	0.000
F3R2	ACRT 72KHz - 50in R value	6.48	BLK	0.000
F3X2	ACRT 72KHz - 50in X value	6.48	BLK	0.000
F3R3	ACRT 72KHz - 29in R value	4.98	BLK	0.000
F3X3	ACRT 72KHz - 29in X value	4.98	BLK	0.000
F3R4	ACRT 72KHz - 17in R value	3.98	BLK	0.000
F3X4	ACRT 72KHz - 17in X value	3.98	BLK	0.000
F3R5	ACRT 72KHz - 10in R value	3.48	BLK	0.000
F3X5	ACRT 72KHz - 10in X value	3.48	BLK	0.000
F3R6	ACRT 72KHz - 6in R value	3.23	BLK	0.000
F3X6	ACRT 72KHz - 6in X value	3.23	BLK	0.000
RMUD	Mud Resistivity	12.52	BLK	0.000
F1RT	Transmitter Reference 12 KHz Real Signal	2.73	BLK	0.000
F1XT	Transmitter Reference 12 KHz Imaginary Signal	2.73	BLK	0.000
F2RT	Transmitter Reference 36 KHz Real Signal	2.73	BLK	0.000
F2XT	Transmitter Reference 36 KHz Imaginary Signal	2.73	BLK	0.000
F3RT	Transmitter Reference 72 KHz Real Signal	2.73	BLK	0.000
F3XT	Transmitter Reference 72 KHz Imaginary Signal	2.73	BLK	0.000
TFPU	Upper Feedpipe Temperature Calculated	2.73	BLK	0.000
TFPL	Lower Feedpipe Temperature Calculated	2.73	BLK	0.000
ITMP	Instrument Temperature	2.73	BLK	0.000
TCVA	Temperature Correction Values Loop Off	2.73	NO	
TIDV	Instrument Temperature Derivative	2.73	NO	
TUDV	Upper Temperature Derivative	2.73	NO	
TLDV	Lower Temperature Derivative	2.73	NO	
TRBD	Receiver Board Temperature	2.73	NO	
HDIA	Measured Hole Diameter	0.00	NO	
SDLT Pad				
TPUL	Tension Pull	62.13	NO	
NAB	Near Above	61.95	BLK	0.920
NHI	Near Cesium High	61.95	BLK	0.920
NLO	Near Cesium Low	61.95	BLK	0.920
NVA	Near Valley	61.95	BLK	0.920
NBA	Near Barite	61.95	BLK	0.920
NDE	Near Density	61.95	BLK	0.920
NPK	Near Peak	61.95	BLK	0.920
NLI	Near Lithology	61.95	BLK	0.920
NBAU	Near Barite Unfiltered	61.95	BLK	0.250
NLIU	Near Lithology Unfiltered	61.95	BLK	0.250
FAB	Far Above	62.30	BLK	0.250
FHI	Far Cesium High	62.30	BLK	0.250
FLO	Far Cesium Low	62.30	BLK	0.250
FVA	Far Valley	62.30	BLK	0.250
FBA	Far Barite	62.30	BLK	0.250
FDE	Far Density	62.30	BLK	0.250
FPK	Far Peak	62.30	BLK	0.250

FLI	Far Lithology	62.30	BLK	0.250
PTMP	Pad Temperature	62.14	BLK	0.920
NHV	Near Detector High Voltage	61.53	NO	
FHV	Far Detector High Voltage	61.53	NO	
ITMP	Instrument Temperature	61.53	NO	
DDHV	Detector High Voltage	61.53	NO	
HDIA	Measured Hole Diameter	0.00	NO	
Microlog Pad				
TPUL	Tension Pull	62.32	NO	
MINV	Microlog Lateral	62.32	BLK	0.750
MNOR	Microlog Normal	62.32	BLK	0.750
Data: S.TUCKER_1-19SWI0001 SP-GTET-DSNT-SDLT-FLEX-WSTT-ACRT-BNIDLE			Date: 07-Mar-15 01:31:07	

COMPANY	FALCON EXPLORATION INC.		
WELL	STEVE TUCKER 1-19 (SW)		
FIELD	WILDCAT		
COUNTY	GRAY	STATE	KANSAS
HALLIBURTON		MICROLOG	