

HALLIBURTON

MICRO LOG

SANDRIDGE EXPLORATION
RENEE 2230 1-2
STUART
FINNEY
KANSAS

COMPANY SANDRIDGE EXPLORATION
WELL RENE 2230 1-2
FIELD/BLOCK STUART
COUNTY FINNEY
STATE KANSAS

API No. 15-055-21774-00-01
 Location NW SE NE SW
 1968' FSL1987' FWL
 Sect. 2 Twp. 22S Rge. 30W
 Elev. 2778.0 ft
 D.F. 2786.0 ft
 G.L. 2778.0 ft
 Other Services:
 DSNT/SLT
 ACRT

Permanent Datum Log measured from KB
 Drilling measured from KB
 Date 05-Apr-13
 Run No. ONE
 Depth - Driller 5395.00 ft
 Depth - Logger 5317.0 ft
 Bottom - Logged Interval 5494.0 ft
 Top - Logged Interval 418.0 ft
 Casing - Driller 8.625 in @ 412.0 ft
 Casing - Logger 418.0 ft
 Bit Size 7.875 in @
 Type Fluid in Hole WATER BASED MUD
 Density 8.5 ppg 49.00 s/qt
 PH 10.50 pH 3.6 cp/m
 Source of Sample FLOWLINE
 Rm @ Meas. Temperature 1.300 ohmm @ 75.00 degF
 Rmf @ Meas. Temperature 1.08 ohmm @ 75.00 degF
 Rmc @ Meas. Temperature 1.520 ohmm @ 75.00 degF
 Source Rmf Rmc MEASURED MEASURED
 Rm @ BHT 0.93 ohmm @ 107.0 degF
 Time Since Circulation 6.0 hr
 Time on Bottom 05-Apr-13 04:16
 Max. Rec. Temperature 107.0 degF @ 5517.0 ft
 Equipment Location 10546696 LIBERAL
 Recorded By THOMAS HYDE
 Witnessed By R. MADRID M. RODEN

Date	05-Apr-13
Run No.	ONE
Depth - Driller	5395.00 ft
Depth - Logger	5317.0 ft
Bottom - Logged Interval	5494.0 ft
Top - Logged Interval	418.0 ft
Casing - Driller	8.625 in @ 412.0 ft
Casing - Logger	418.0 ft
Bit Size	7.875 in @
Type Fluid in Hole	WATER BASED MUD
Density	8.5 ppg 49.00 s/qt
PH	10.50 pH 3.6 cp/m
Source of Sample	FLOWLINE
Rm @ Meas. Temperature	1.300 ohmm @ 75.00 degF
Rmf @ Meas. Temperature	1.08 ohmm @ 75.00 degF
Rmc @ Meas. Temperature	1.520 ohmm @ 75.00 degF
Source Rmf Rmc	MEASURED MEASURED
Rm @ BHT	0.93 ohmm @ 107.0 degF
Time Since Circulation	6.0 hr
Time on Bottom	05-Apr-13 04:16
Max. Rec. Temperature	107.0 degF @ 5517.0 ft
Equipment Location	10546696 LIBERAL
Recorded By	THOMAS HYDE
Witnessed By	R. MADRID M. RODEN

Fold here

Service Ticket No.: 900328508 API Serial No.: 15-055-21774-00-01 PGM Version: WL INSITE R3.8.0 (Build 2)

CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE					RESISTIVITY SCALE CHANGES				
Date	Sample No.				Type Log	Depth	Scale Up Hole	Scale Down Hole	
Depth-Driller									
Type Fluid in Hole									
Density	Viscosity								
Ph	Fluid Loss								
Source of Sample					RESISTIVITY EQUIPMENT DATA				
Rm @ Meas. Temp		@		@	Run No.	Tool Type & No.	Pad Type	Tool Pos.	Other
Rmf @ Meas. Temp.		@		@	ONE	MICRO	RUBBER	ADJ.	N/A
Rmc @ Meas. Temp.		@		@		11014296			
Source Rmf	Rmc								
Rm @ BHT		@		@					
Rmf @ BHT		@		@					
Rmc @ BHT		@		@					

EQUIPMENT DATA							
GAMMA		ACOUSTIC		DENSITY		NEUTRON	
Run No.	ONE	Run No.		Run No.		Run No.	
Serial No.	11039640	Serial No.		Serial No.		Serial No.	
Model No.	GTET	Model No.		Model No.		Model No.	
Diameter	3.625"	No. of Cent.		Diameter		Diameter	
Detector Model No.	T-102	Spacing		Log Type		Log Type	
Type	SCINT			Source Type		Source Type	
Length	8"	LSA [Y/N]		Serial No.		Serial No.	
Distance to Source	10'	FWDA [Y/N]		Strength		Strength	

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	5517	418	REC	0	150									

DIRECTIONAL INFORMATION

Maximum Deviation @ KOP @

Remarks: ANNULAR HOLE VOLUME CALCULATED FOR 5.5INCH CASING
 CHLORIDES REPORTED AT 4500 MG/L

TODAY'S CREW M. GRAHAM B. TERRELL

THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES LIBERAL, KANSAS 620-624-8123

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



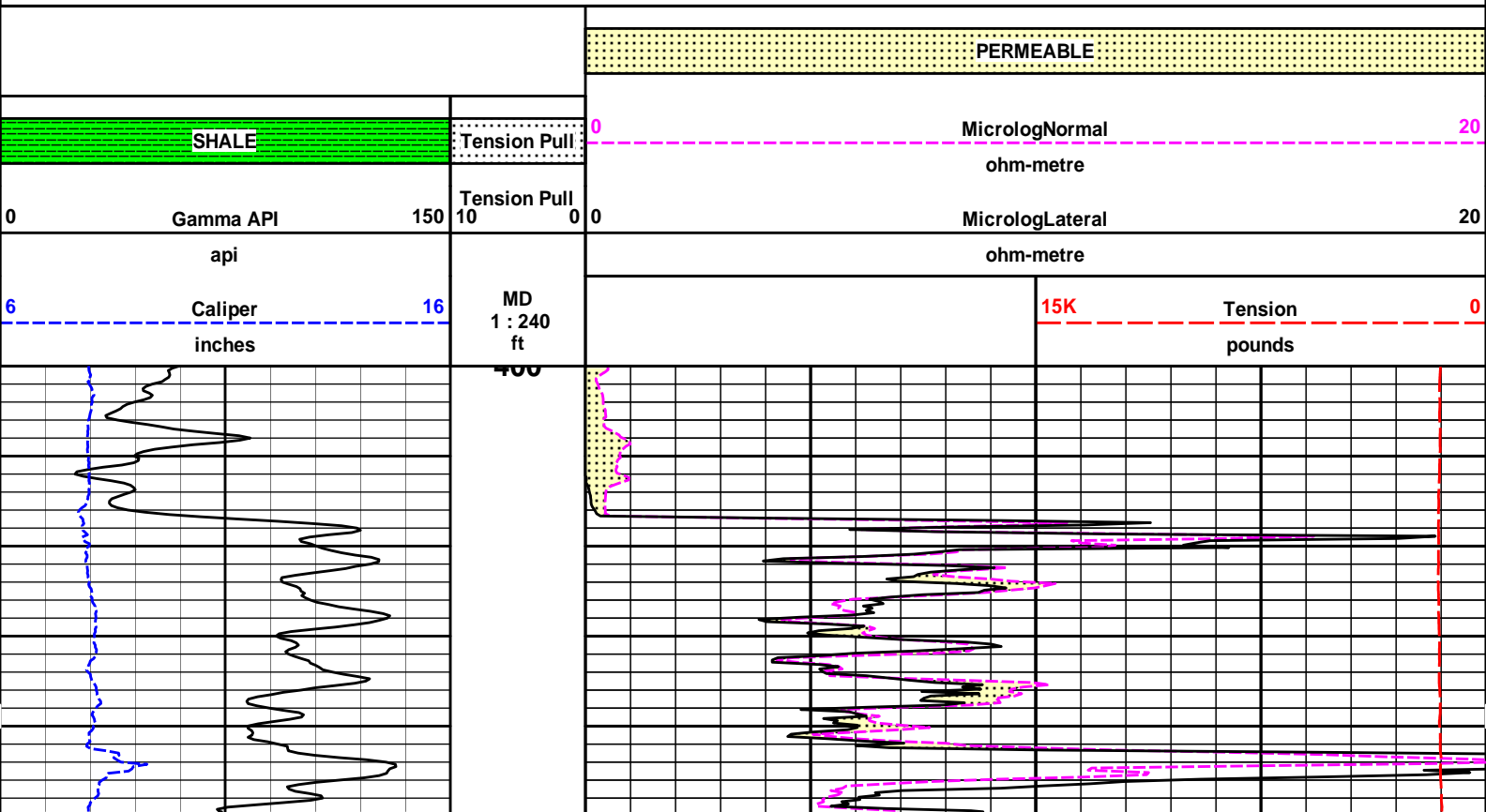
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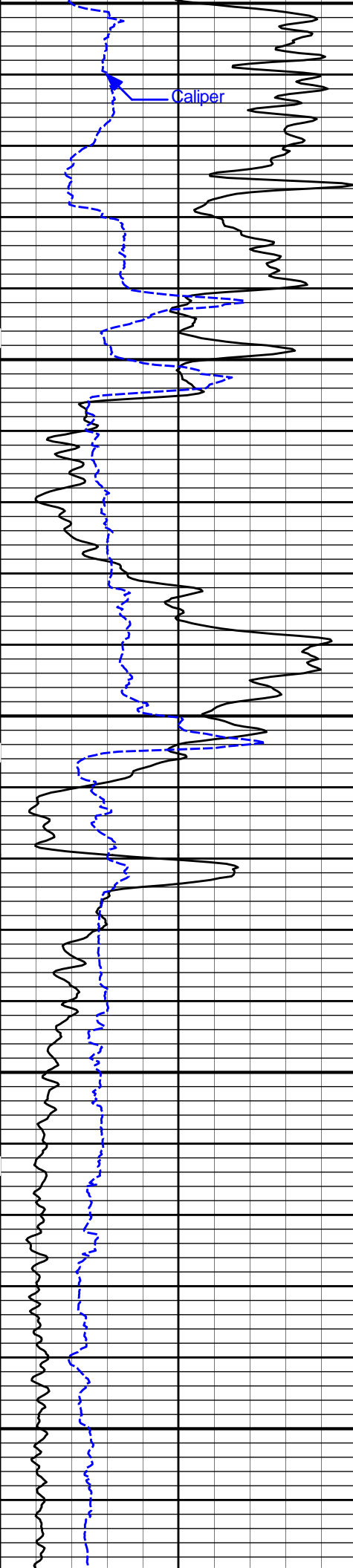
Plot Range: 400 ft to 5522.25 ft

Data: RENEE_2230_1_2\Well Based\DAQ-0001-005\

Plot File: \\LOCAL-RENEE_2230_1_2\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-CH\MICRO\Microlog_IQ_5_main_lib

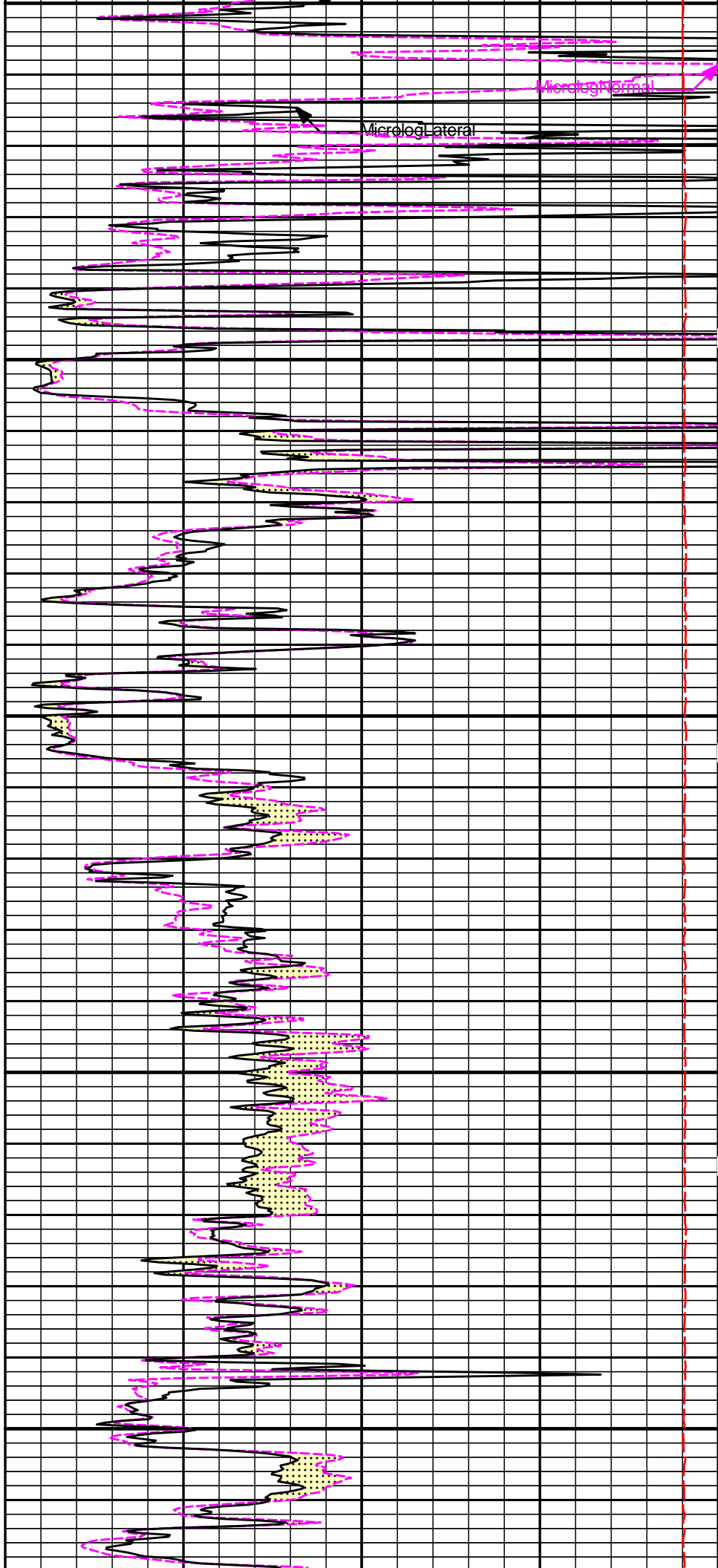
5 INCH MAIN LOG





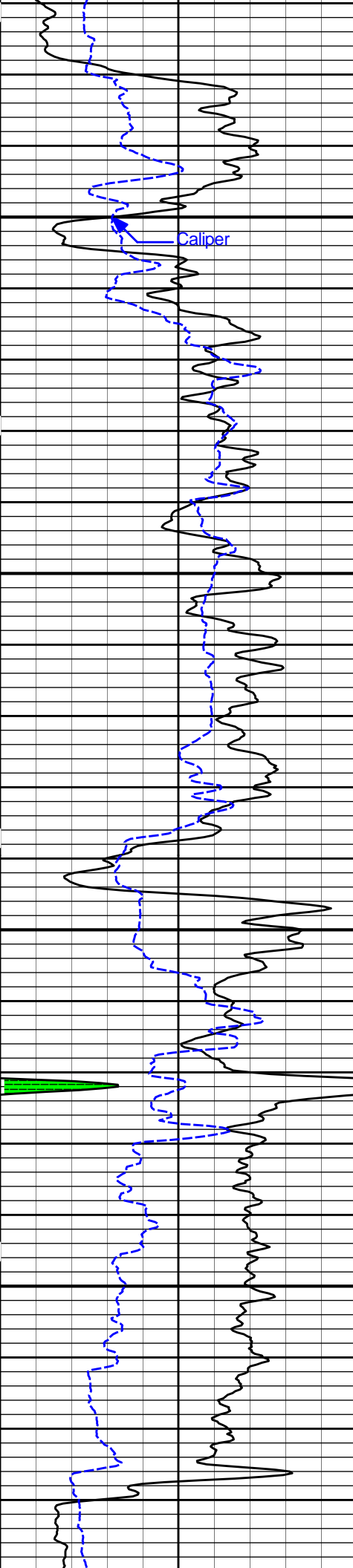
500

600



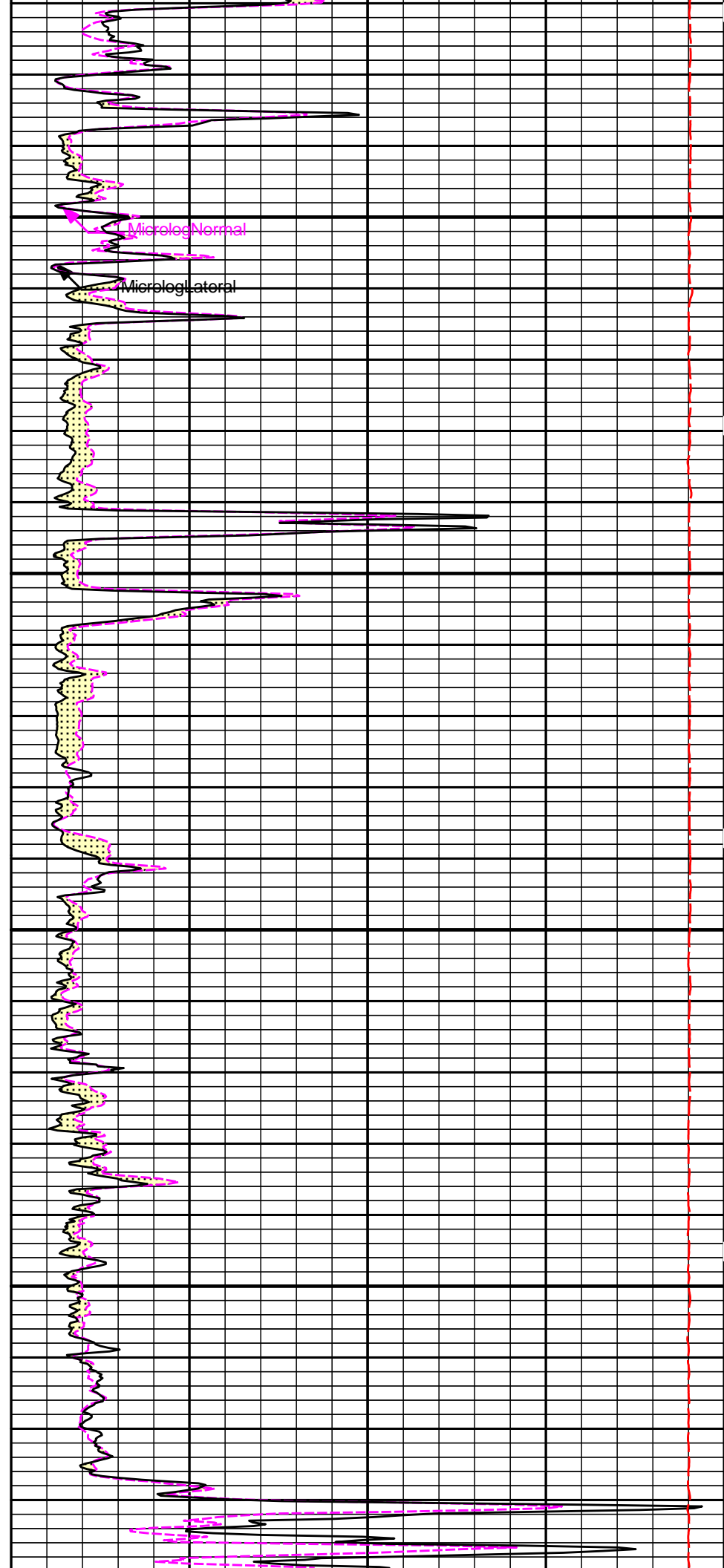
MicrologLateral

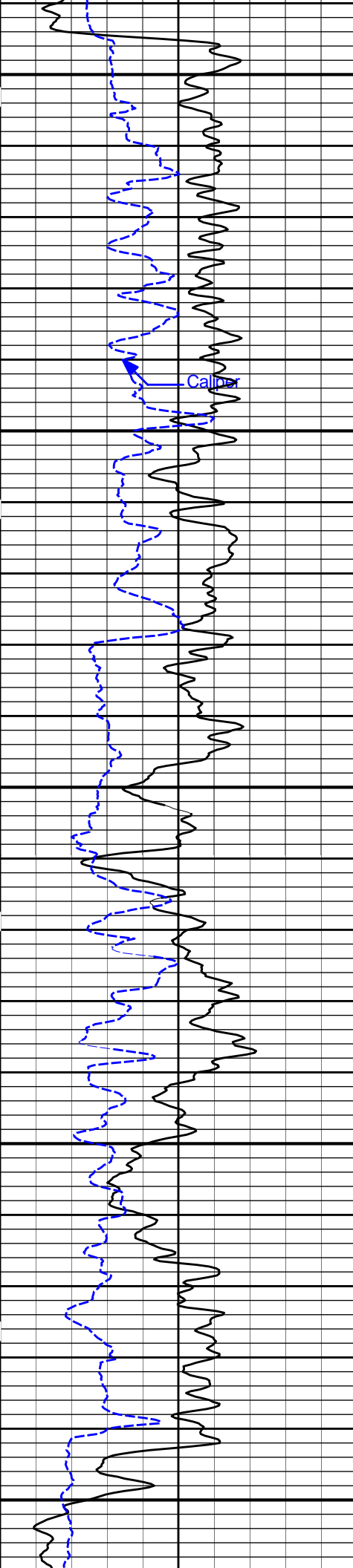
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700

800

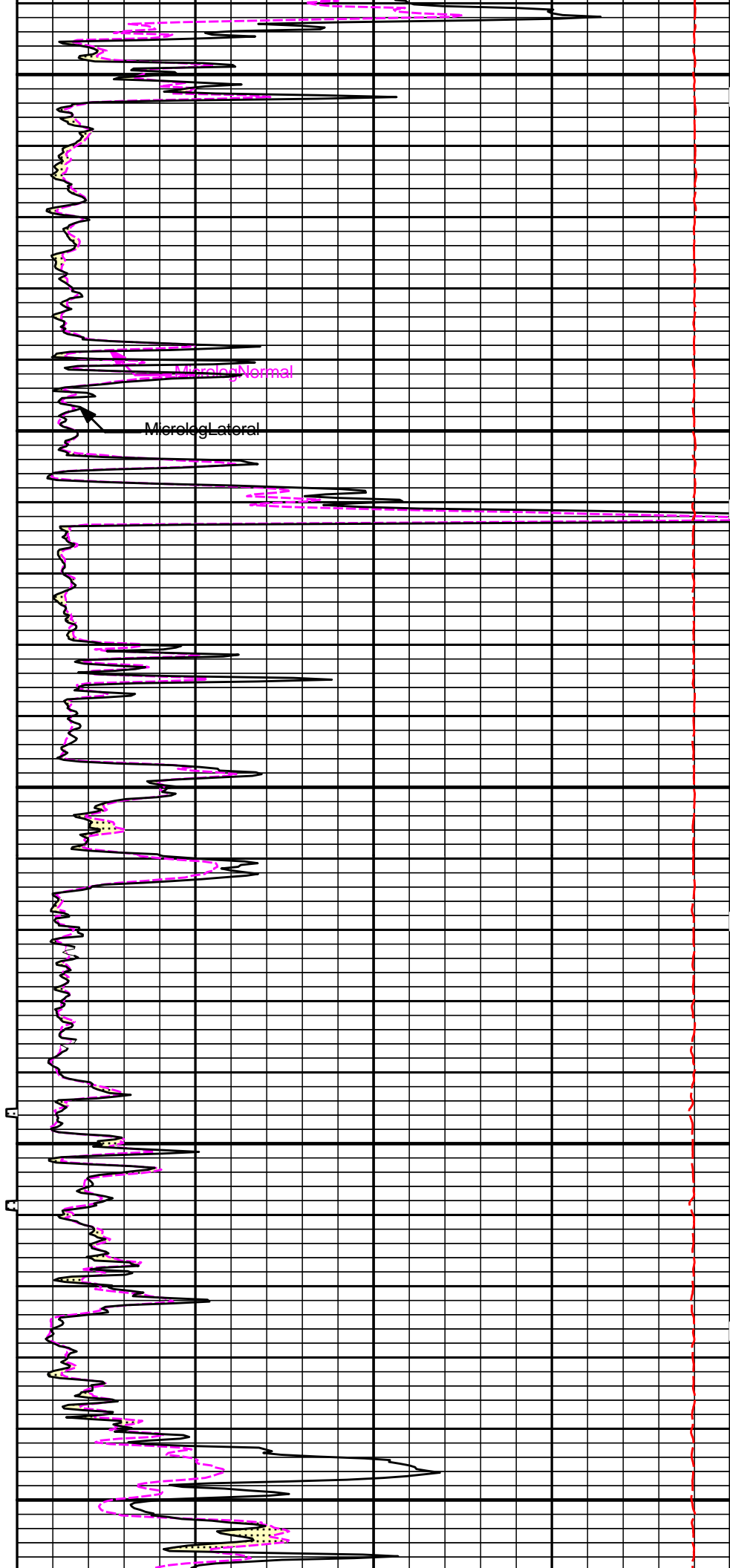




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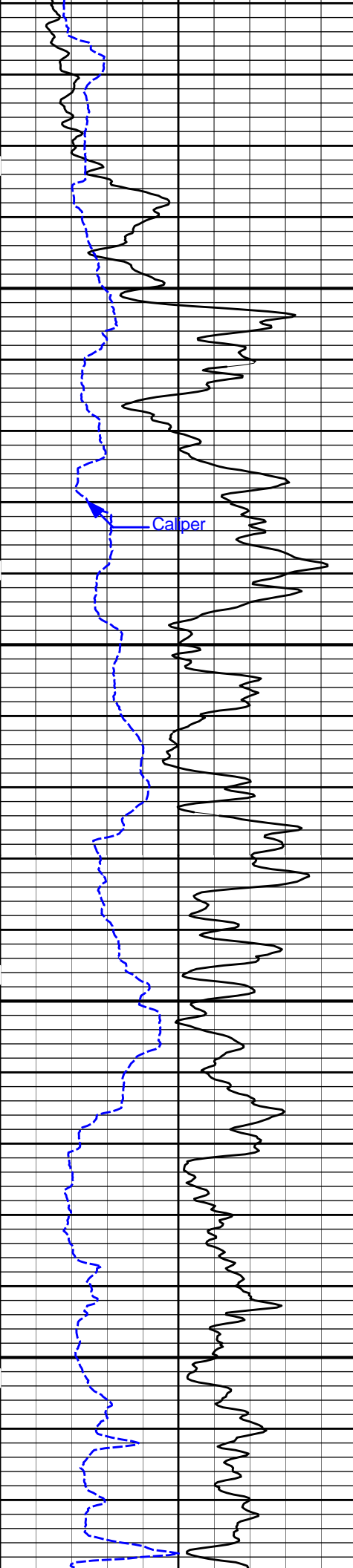
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1100



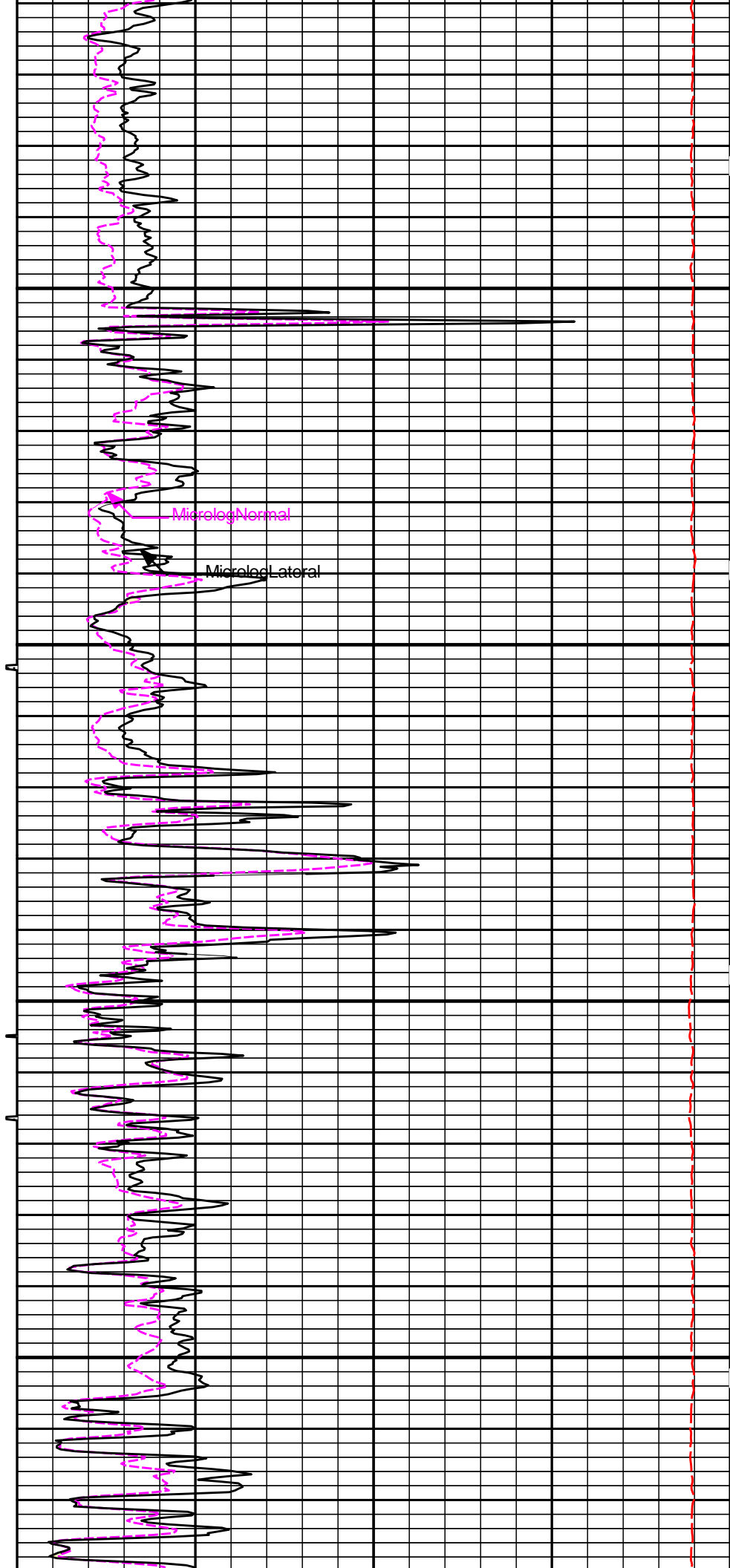
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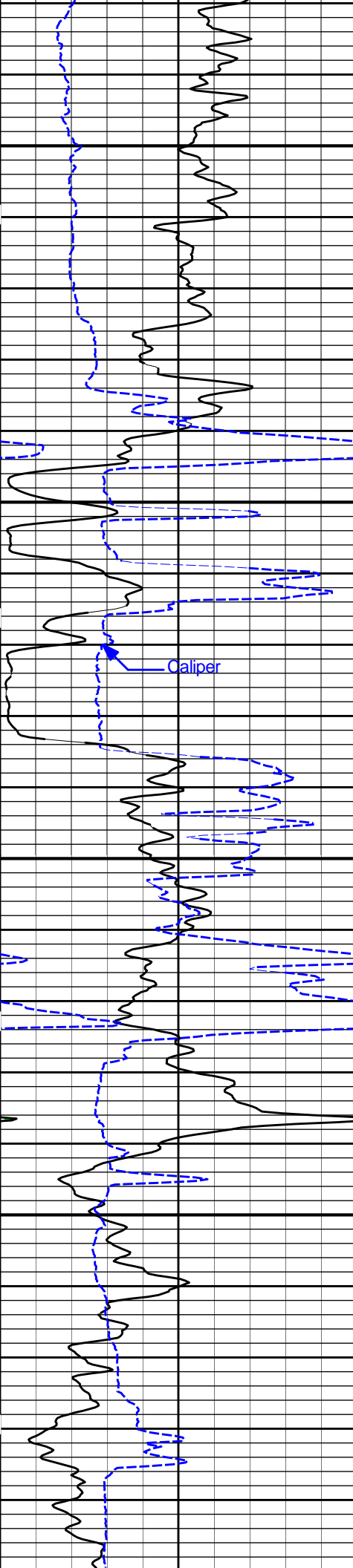
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1200

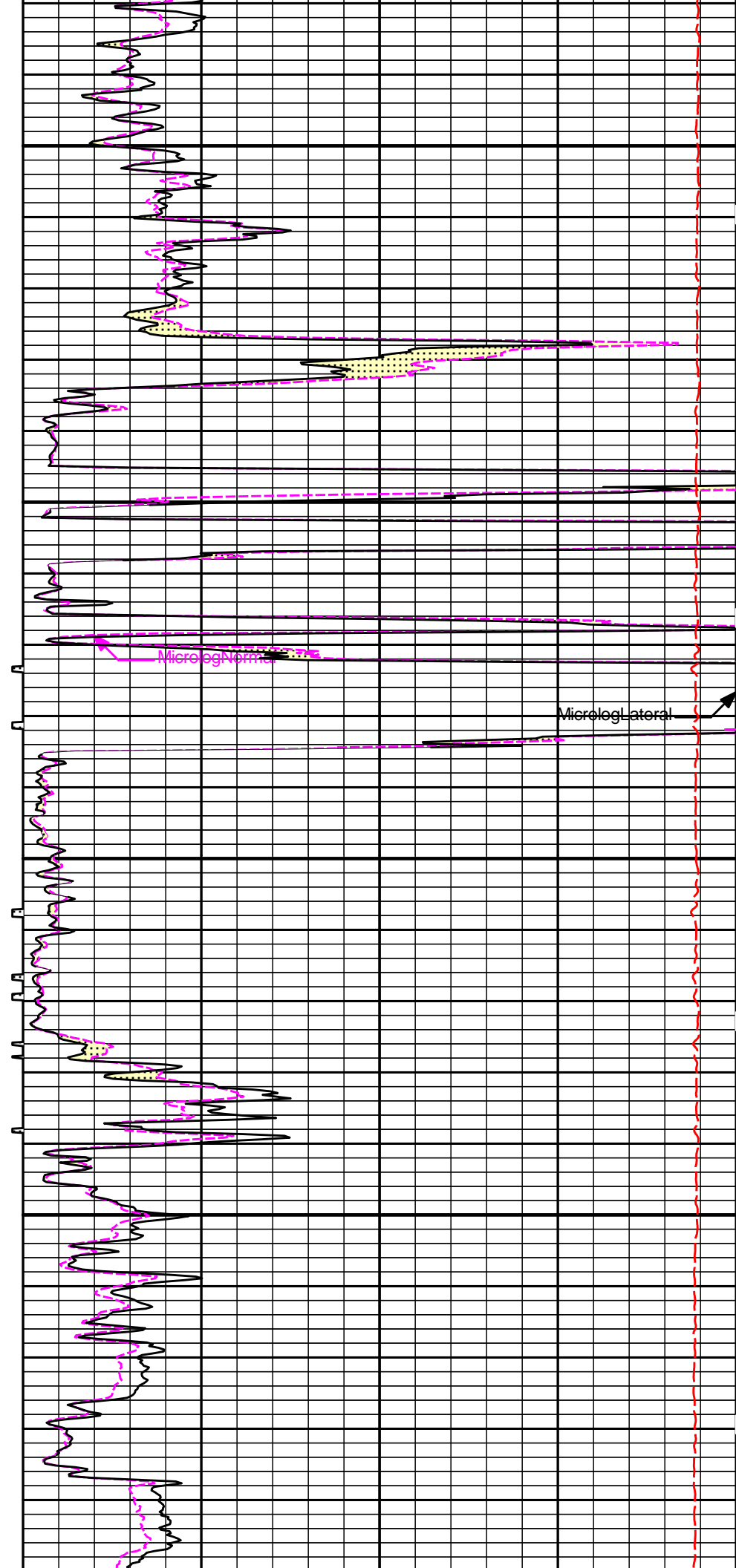
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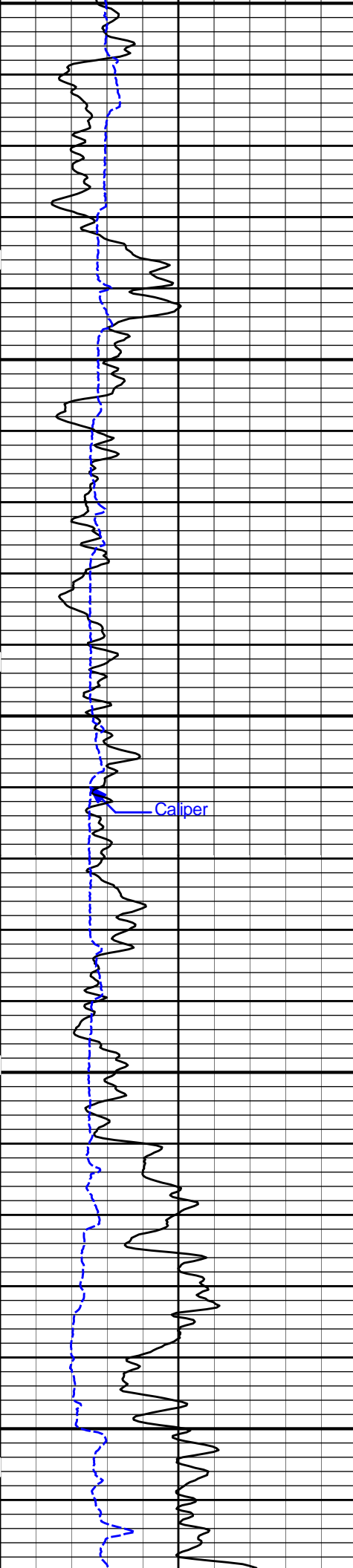




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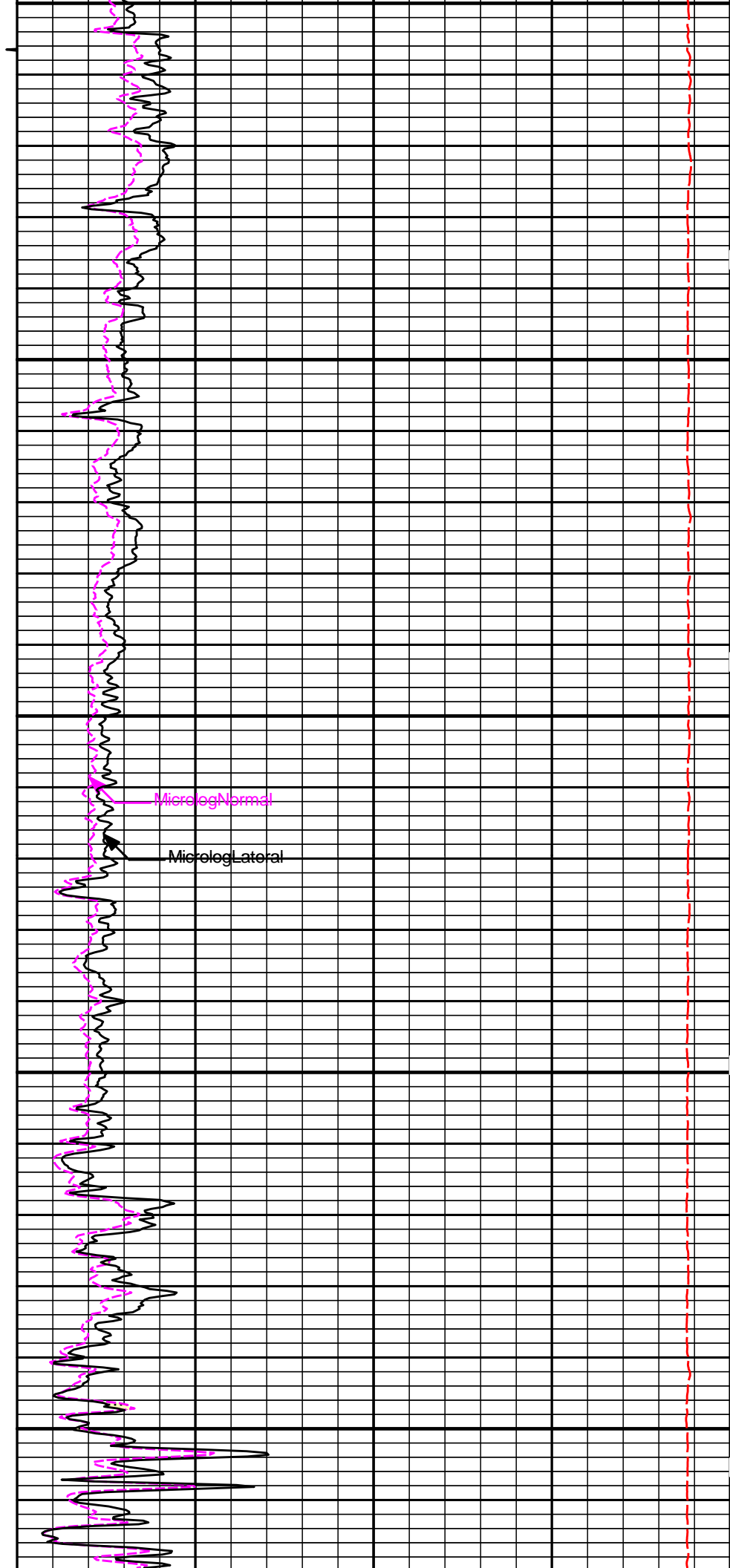
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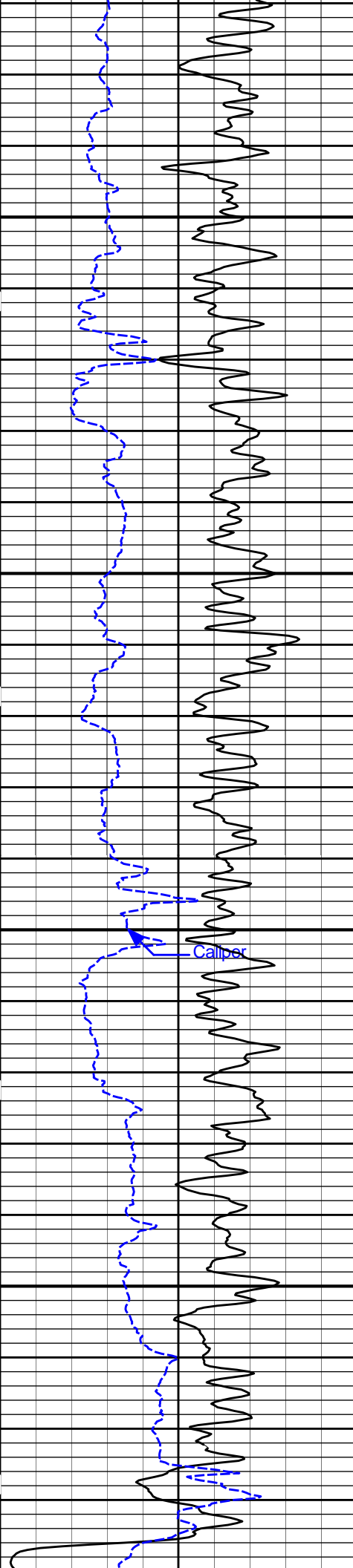




1600

1700

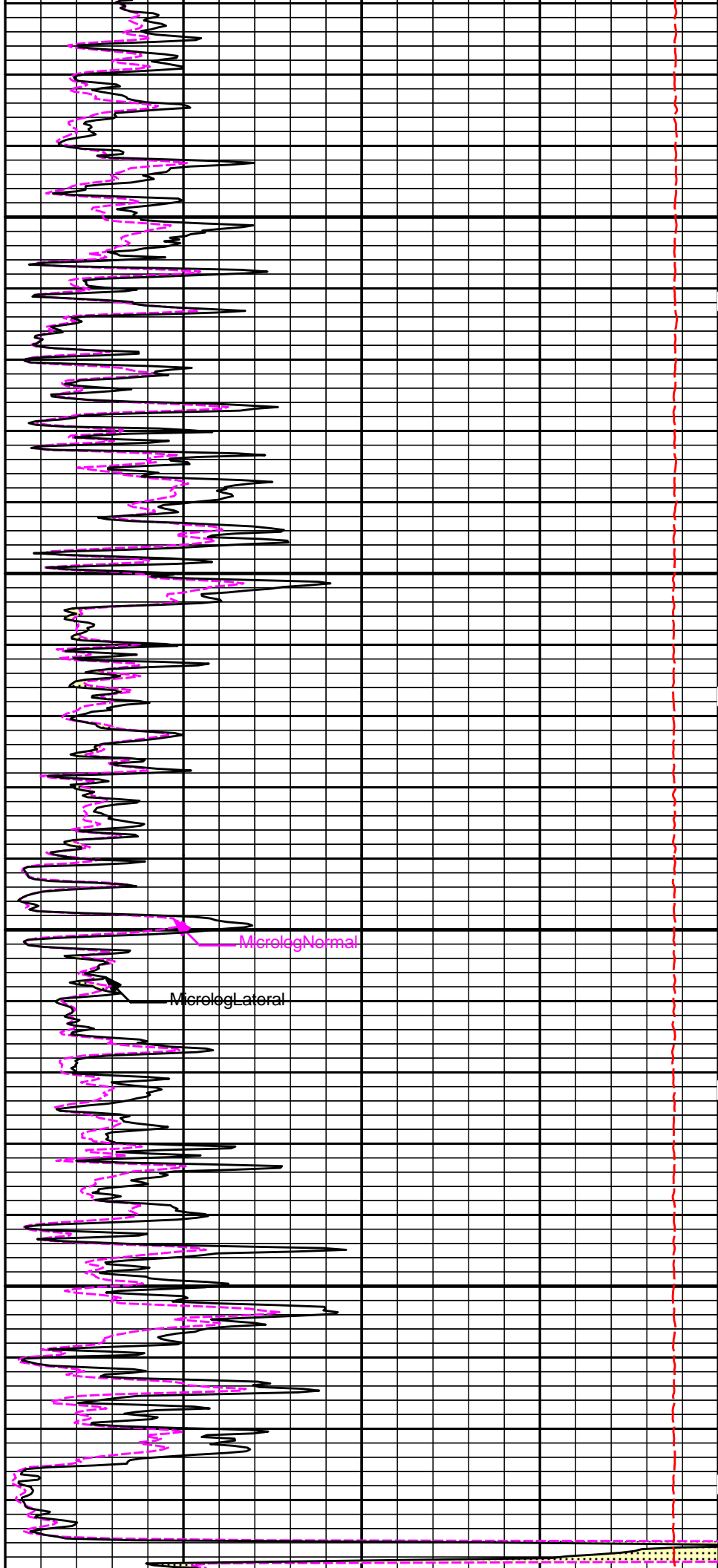




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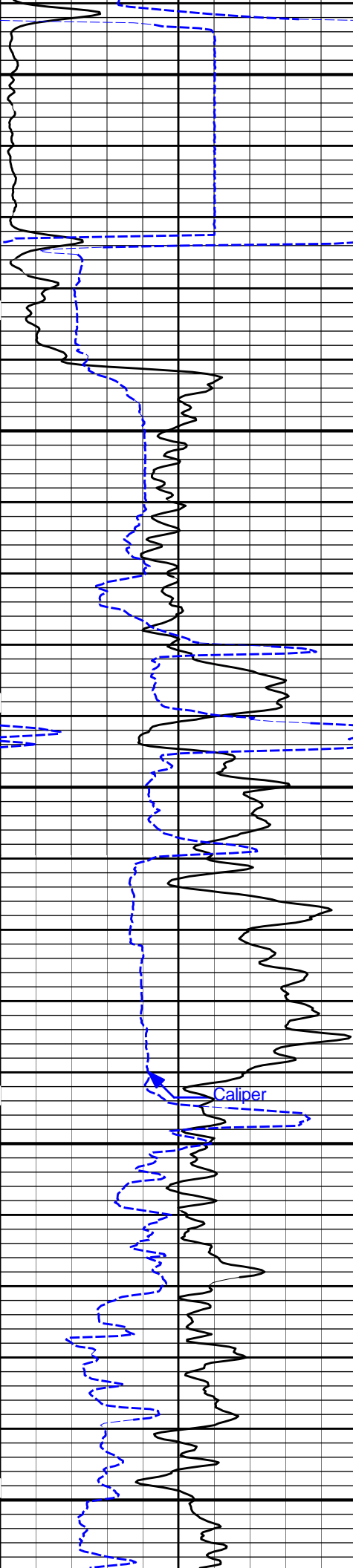
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Caliper



MicrologNormal

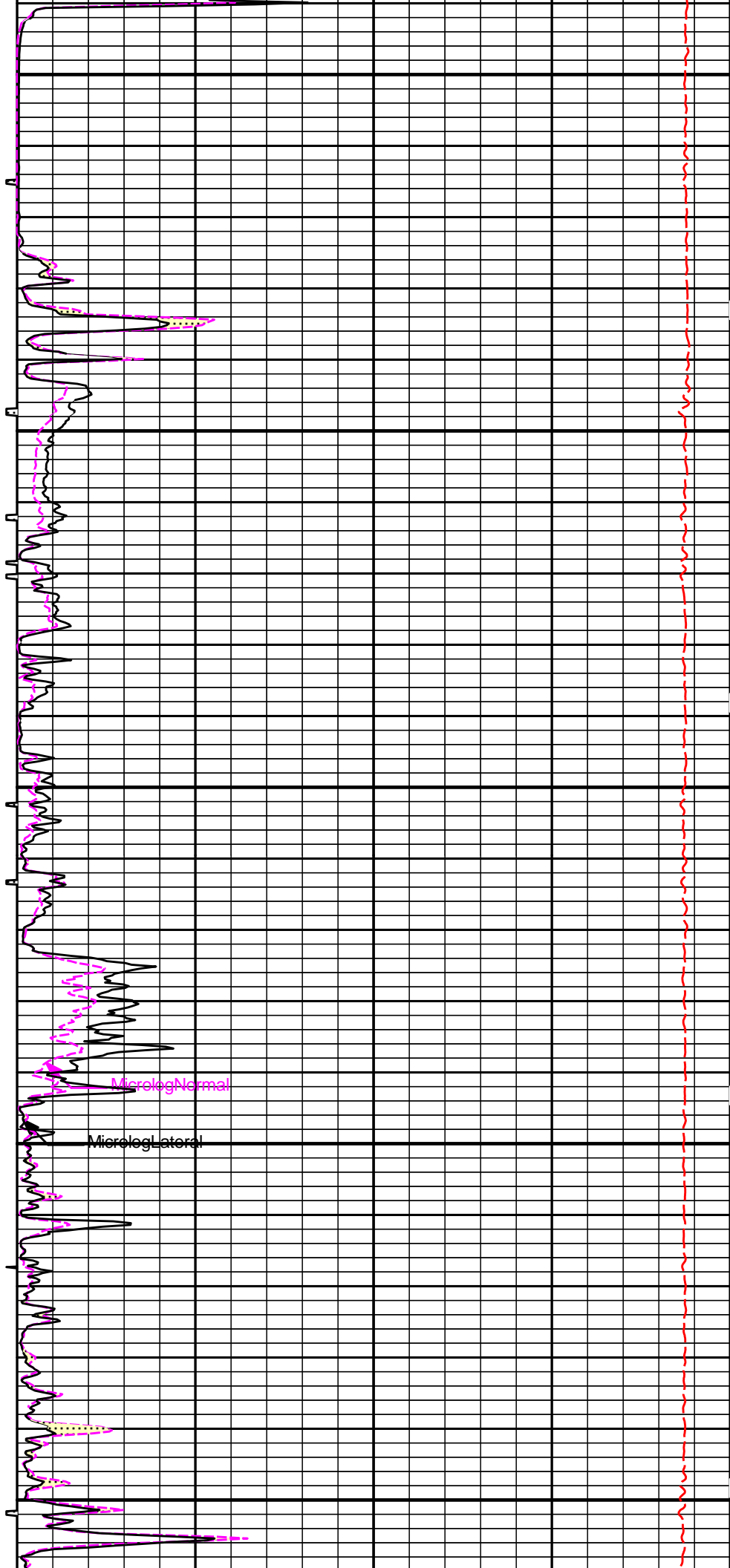
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2000

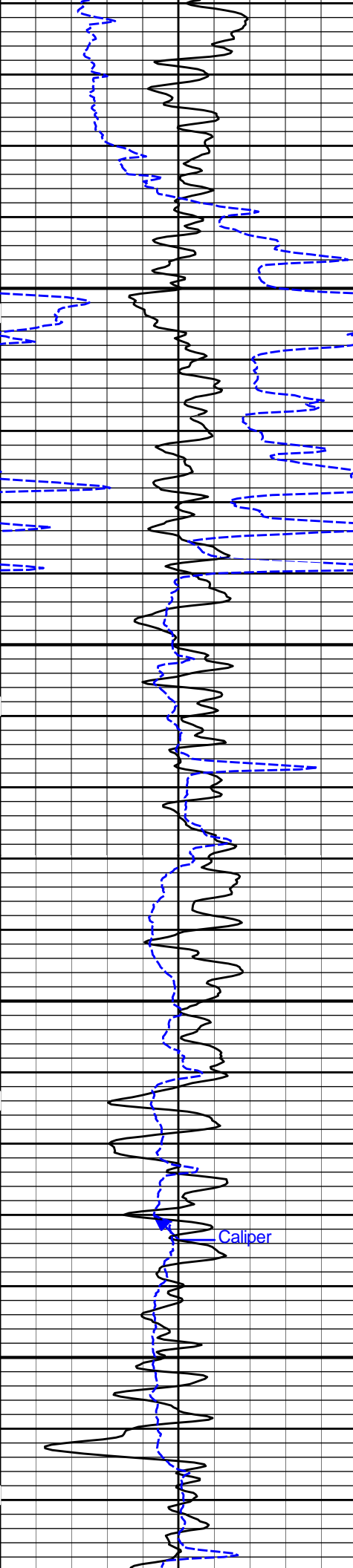
2100

2200



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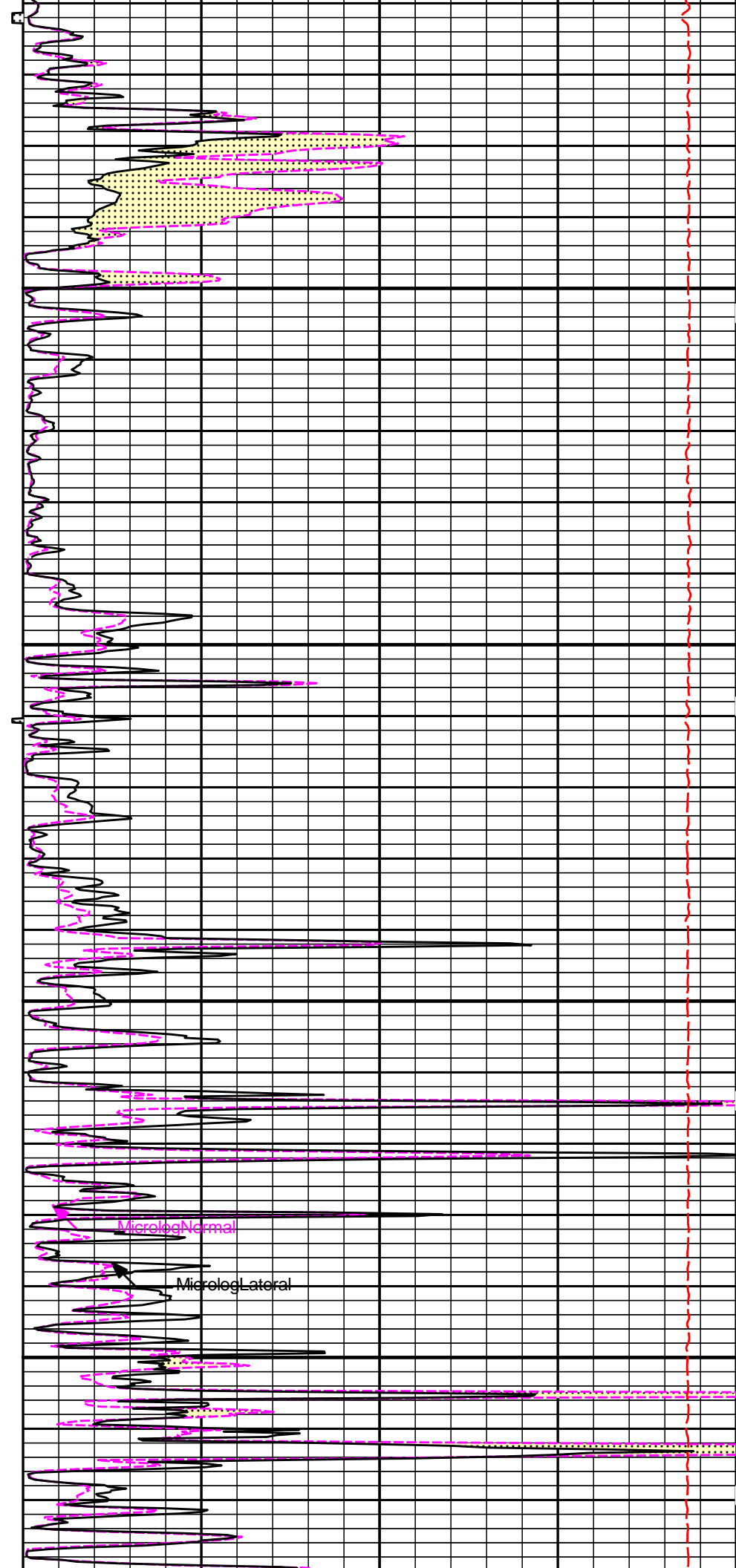
MicrologLateral



Caliper

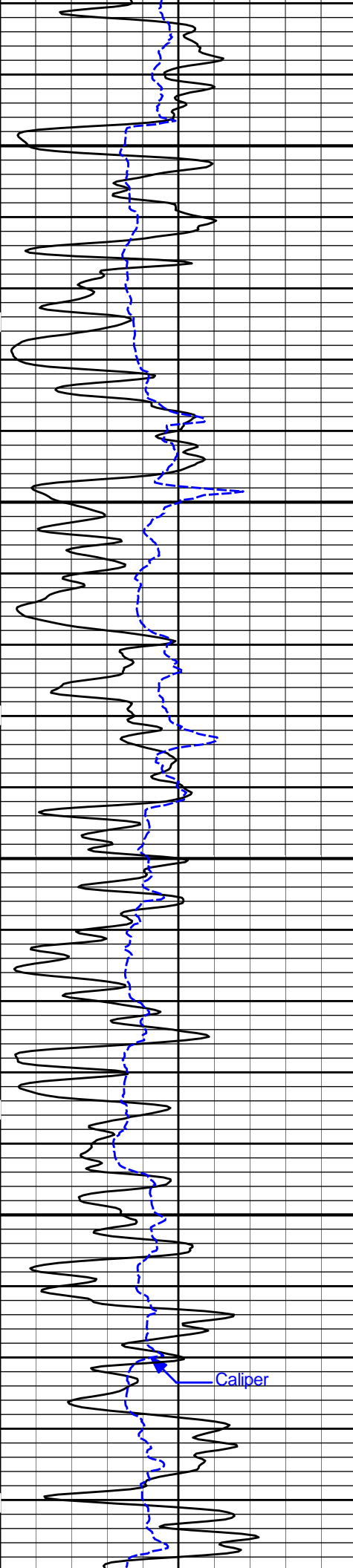
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2400



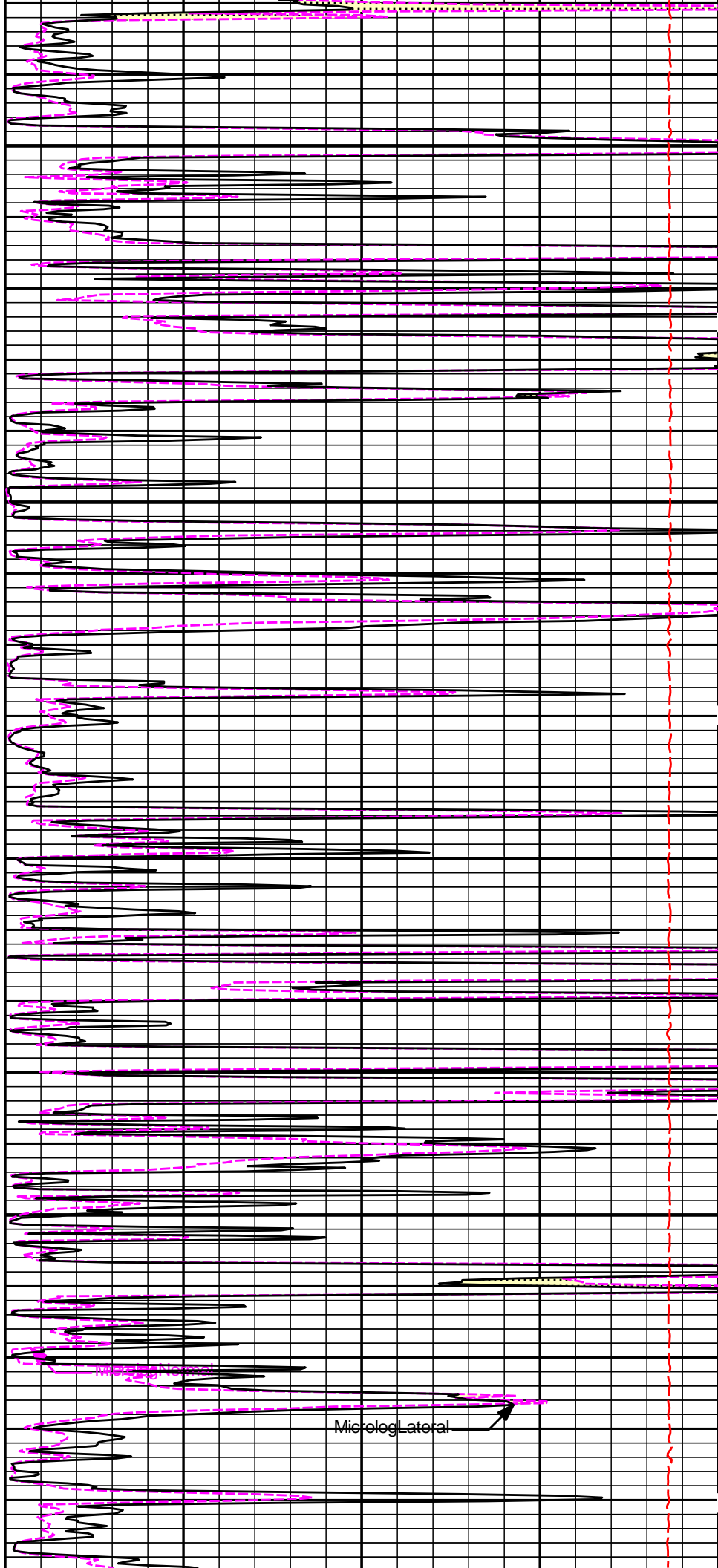
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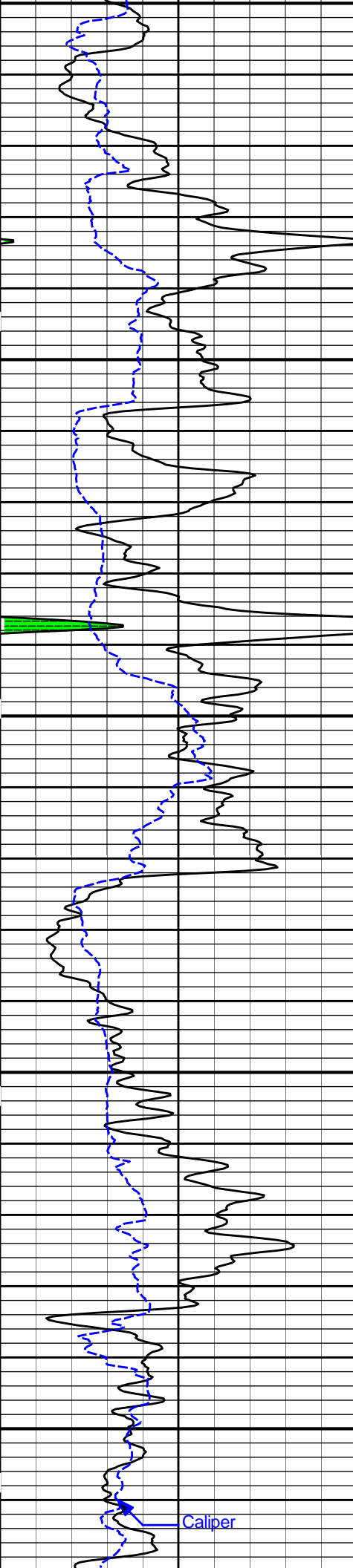
MicrologLateral



2500

2600

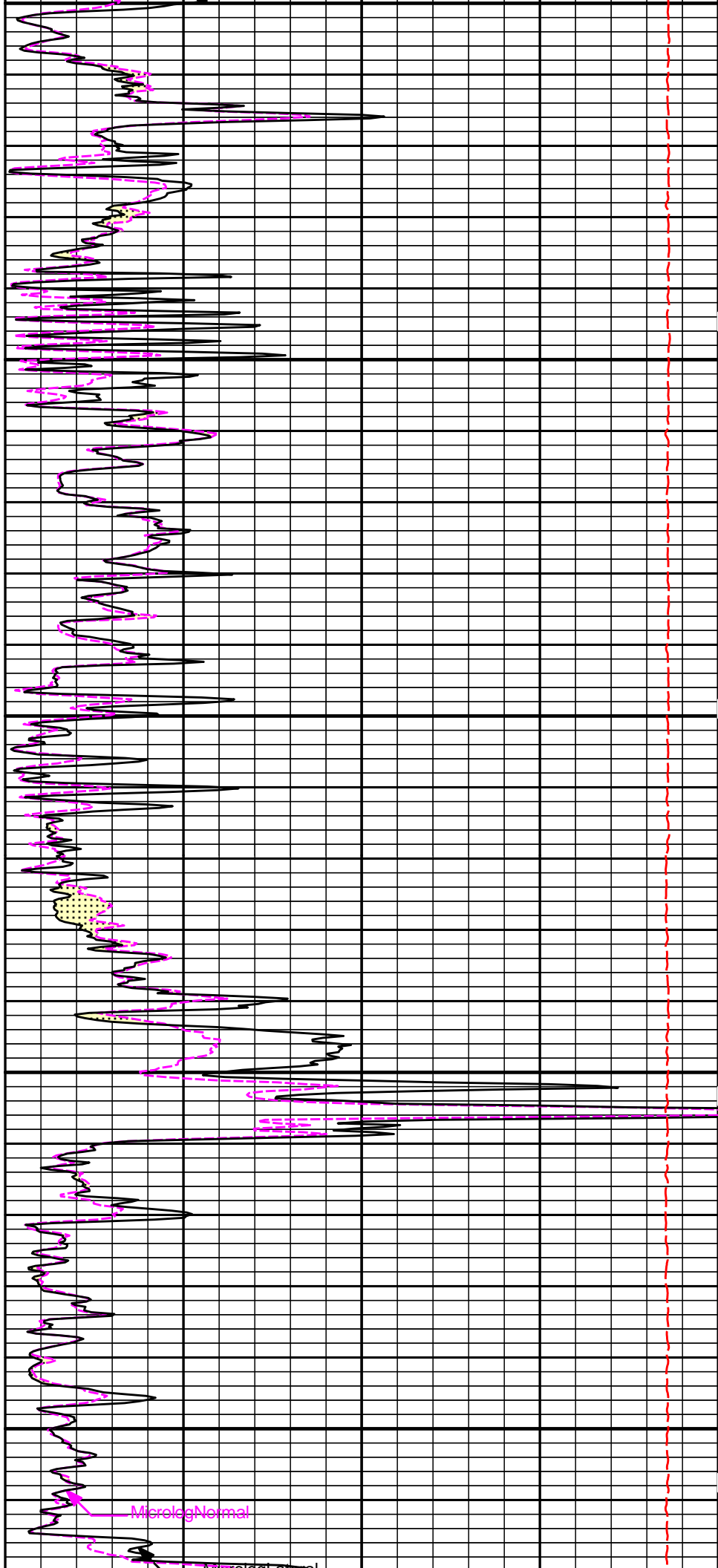




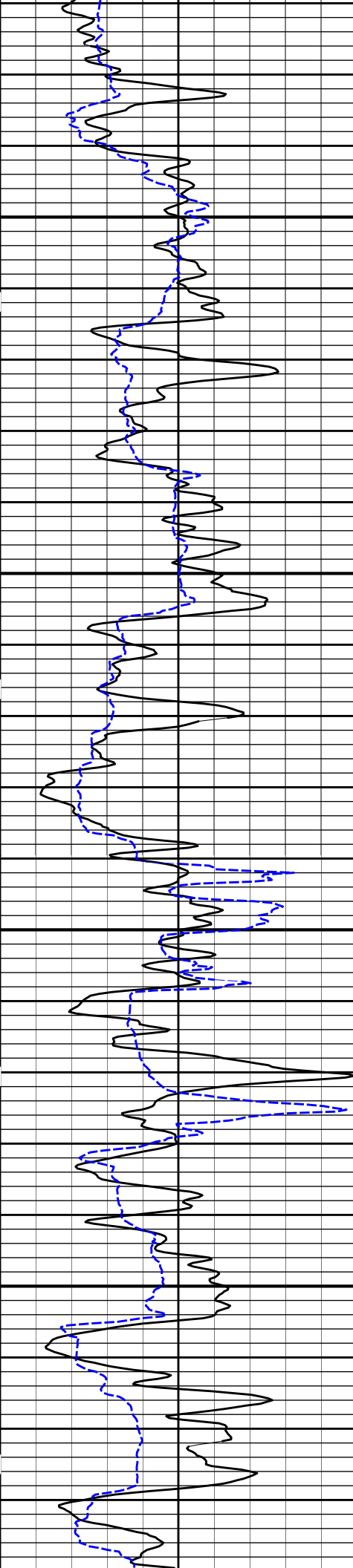
2700

2800

Caliper

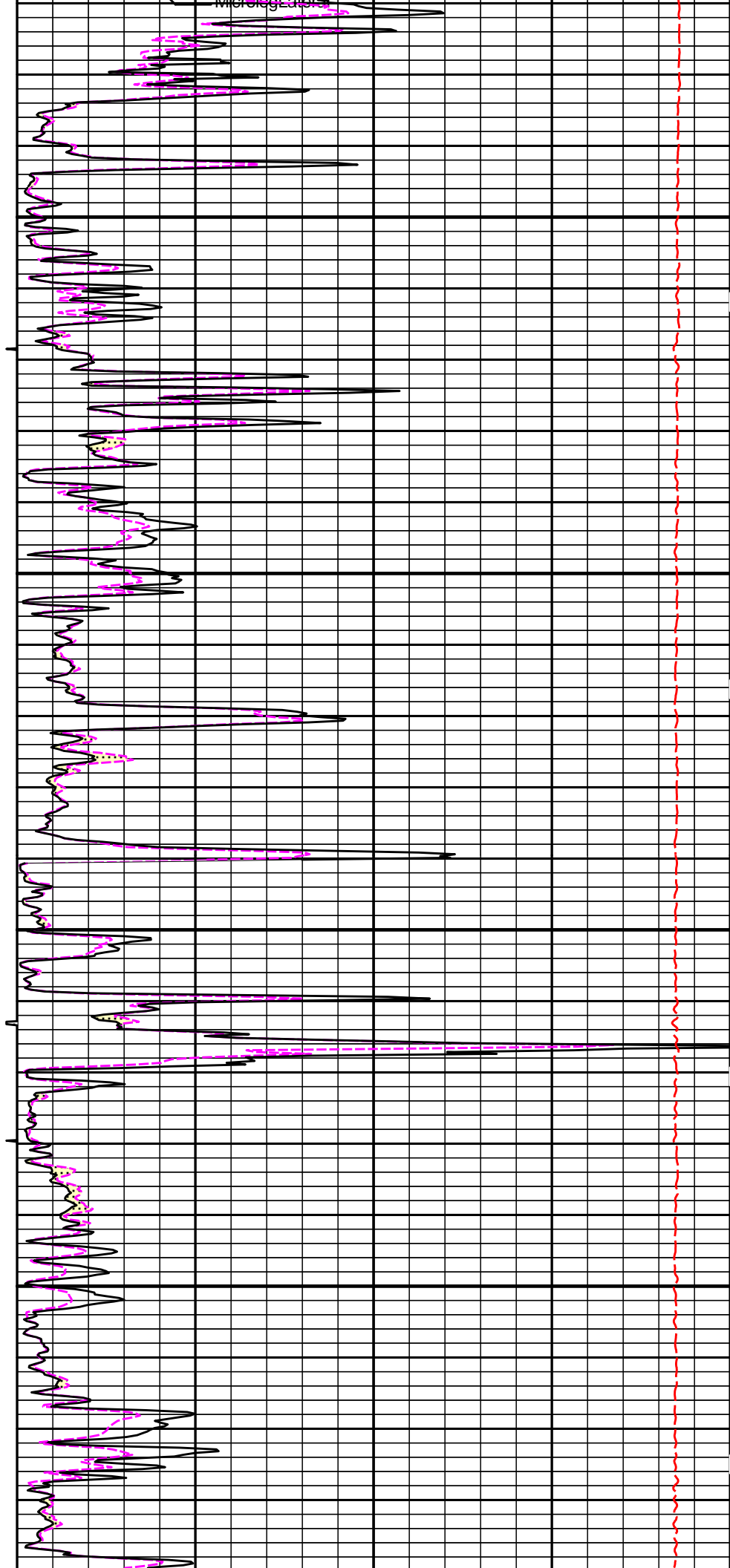


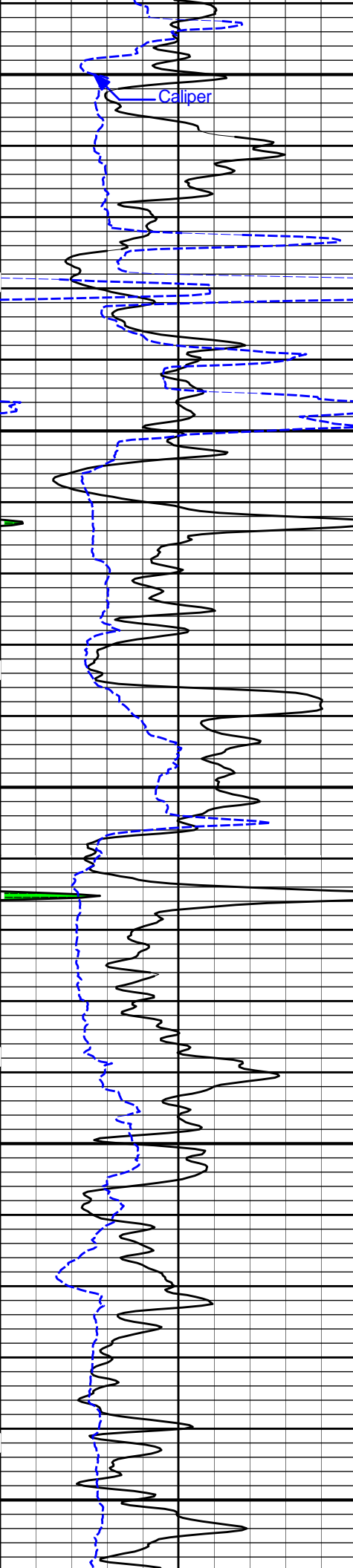
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2900

3000



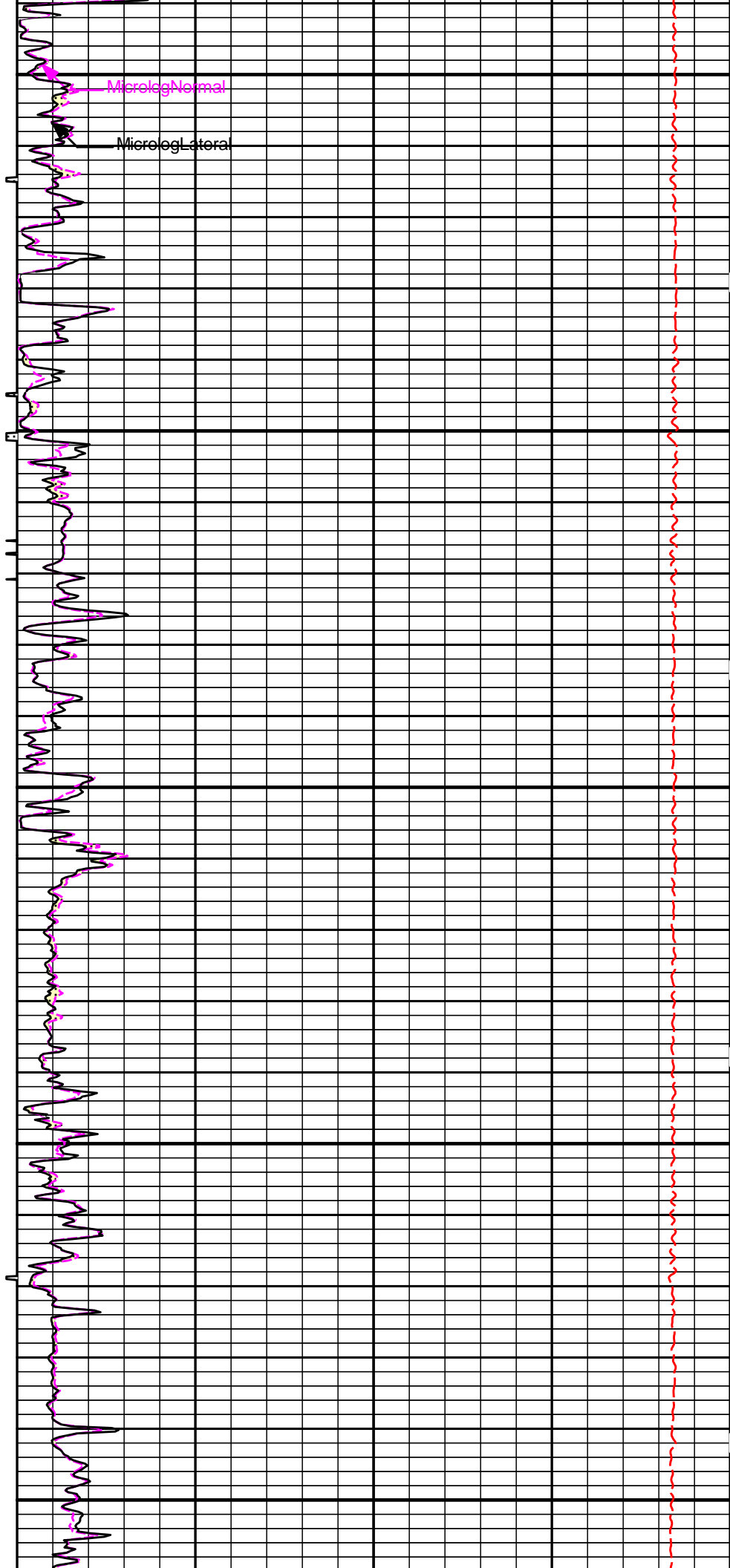


3100

Caliper

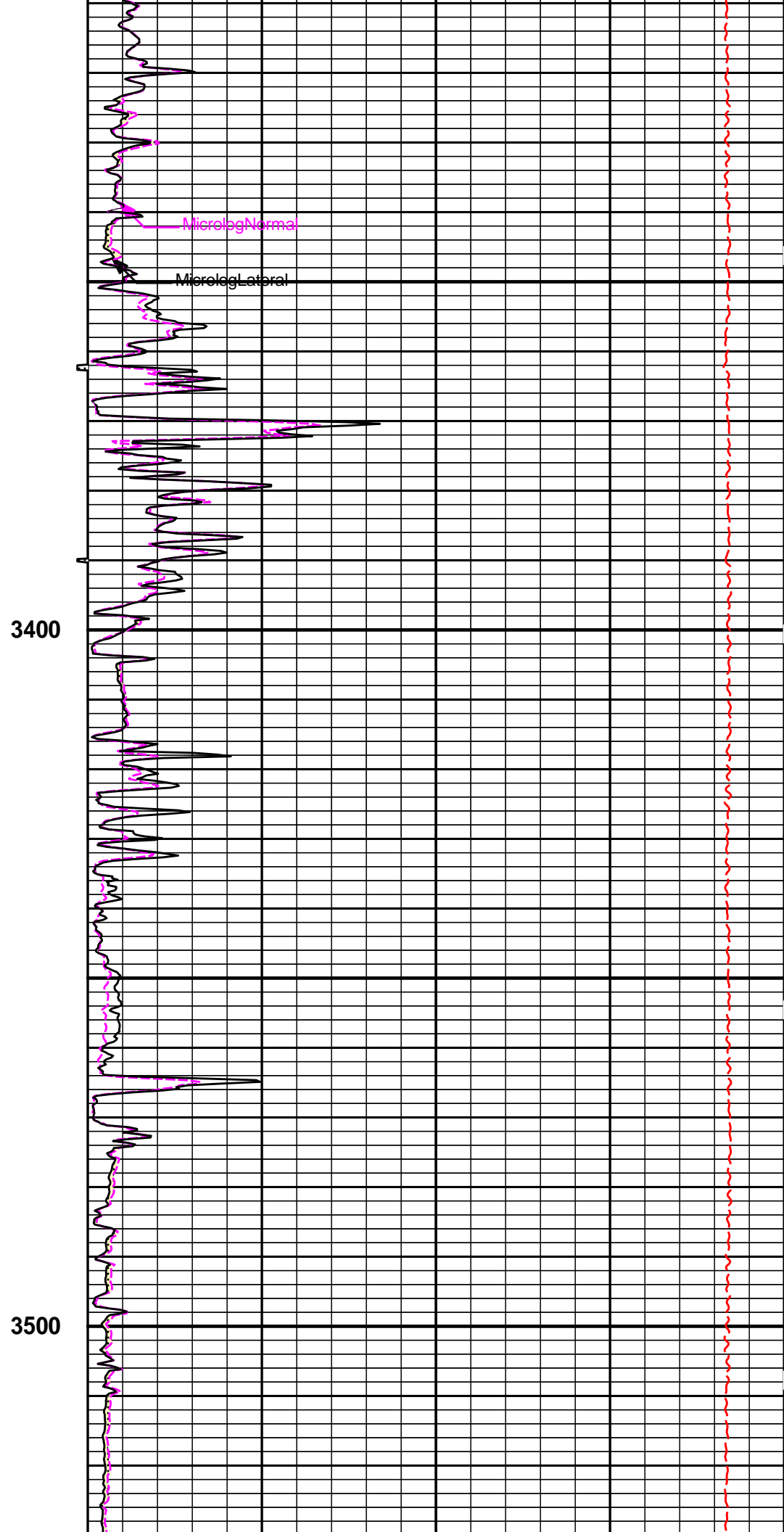
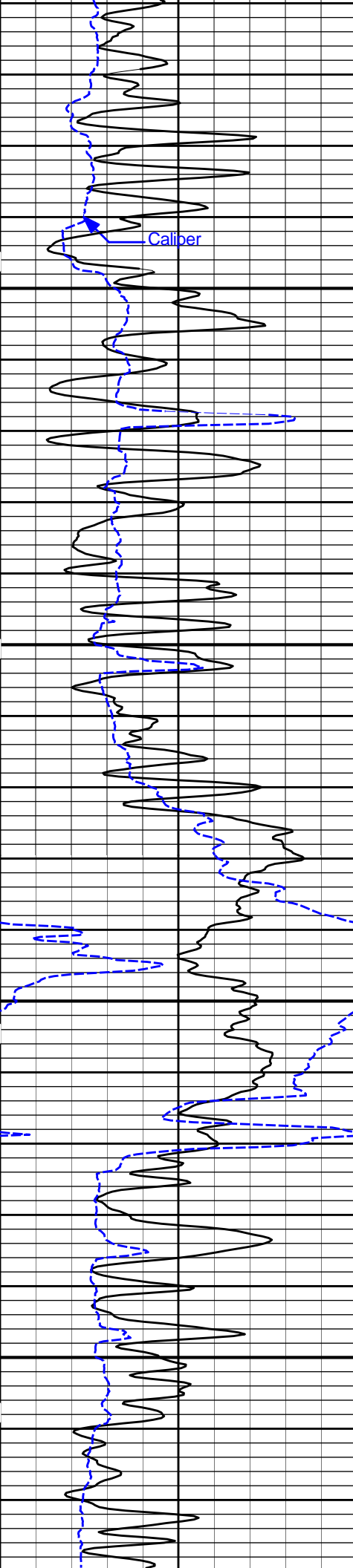
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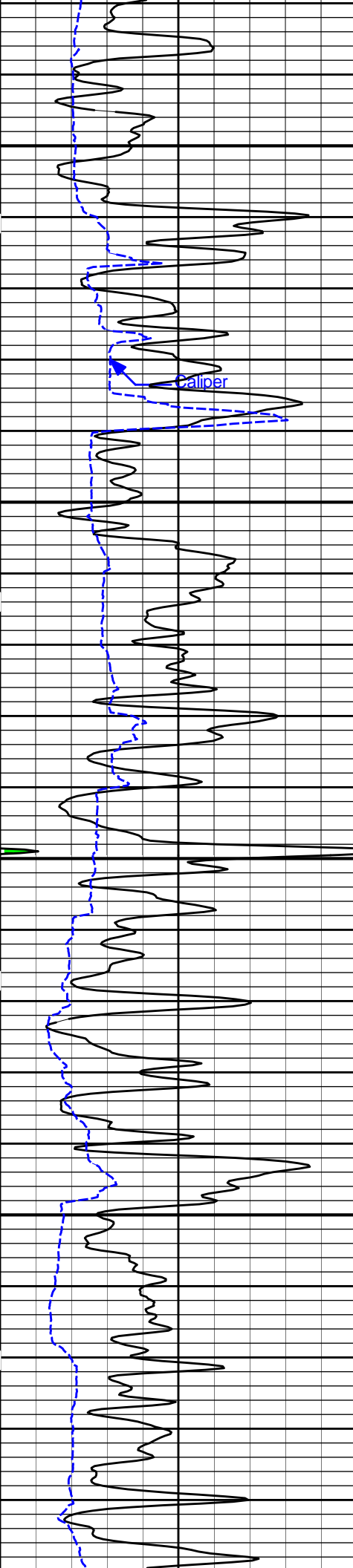
3300



MicrologNormal

MicrologLateral



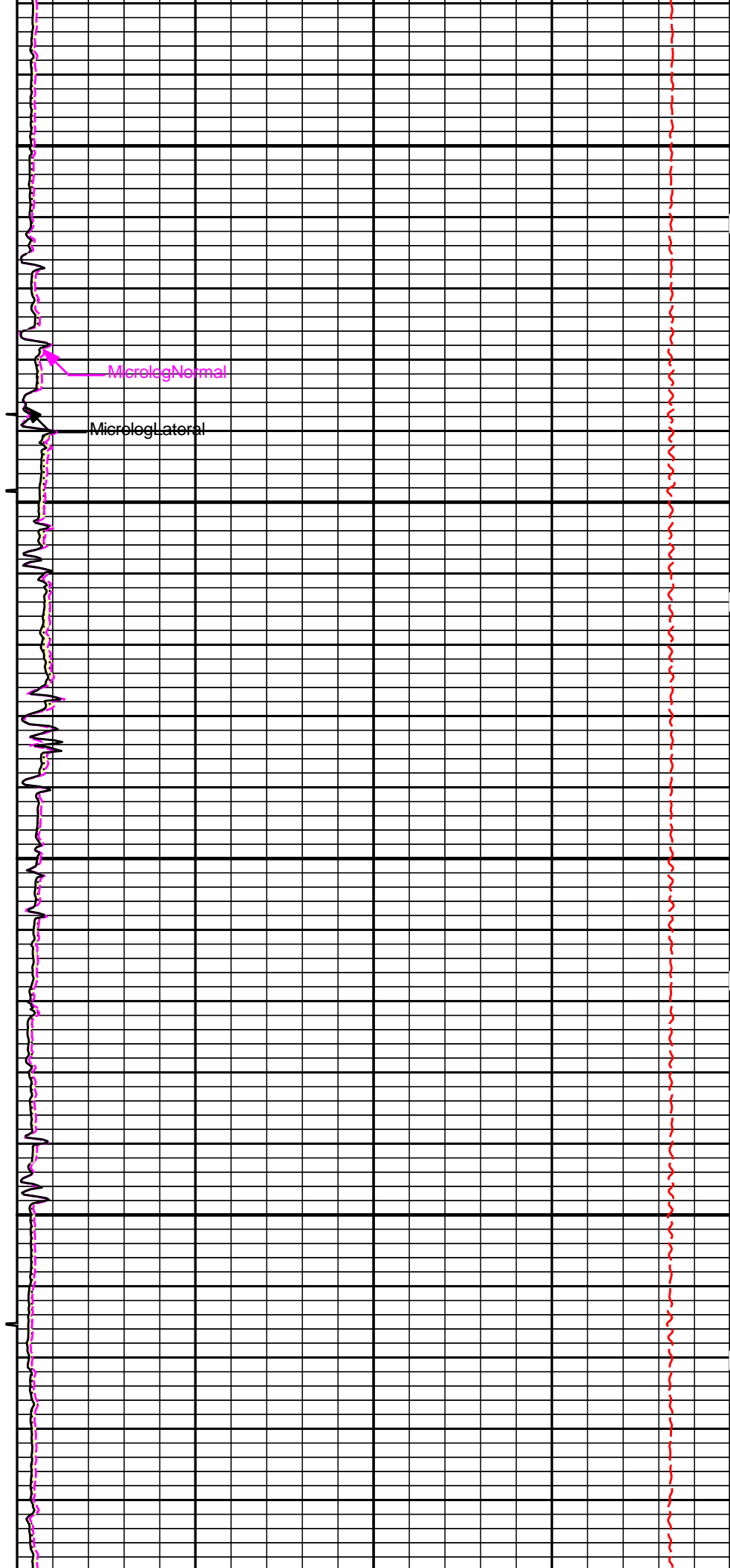


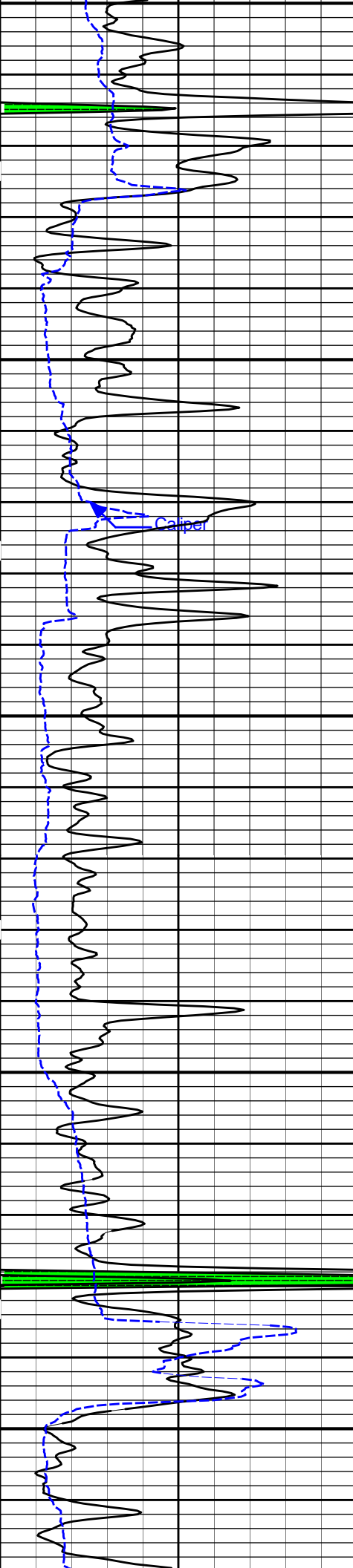
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3700

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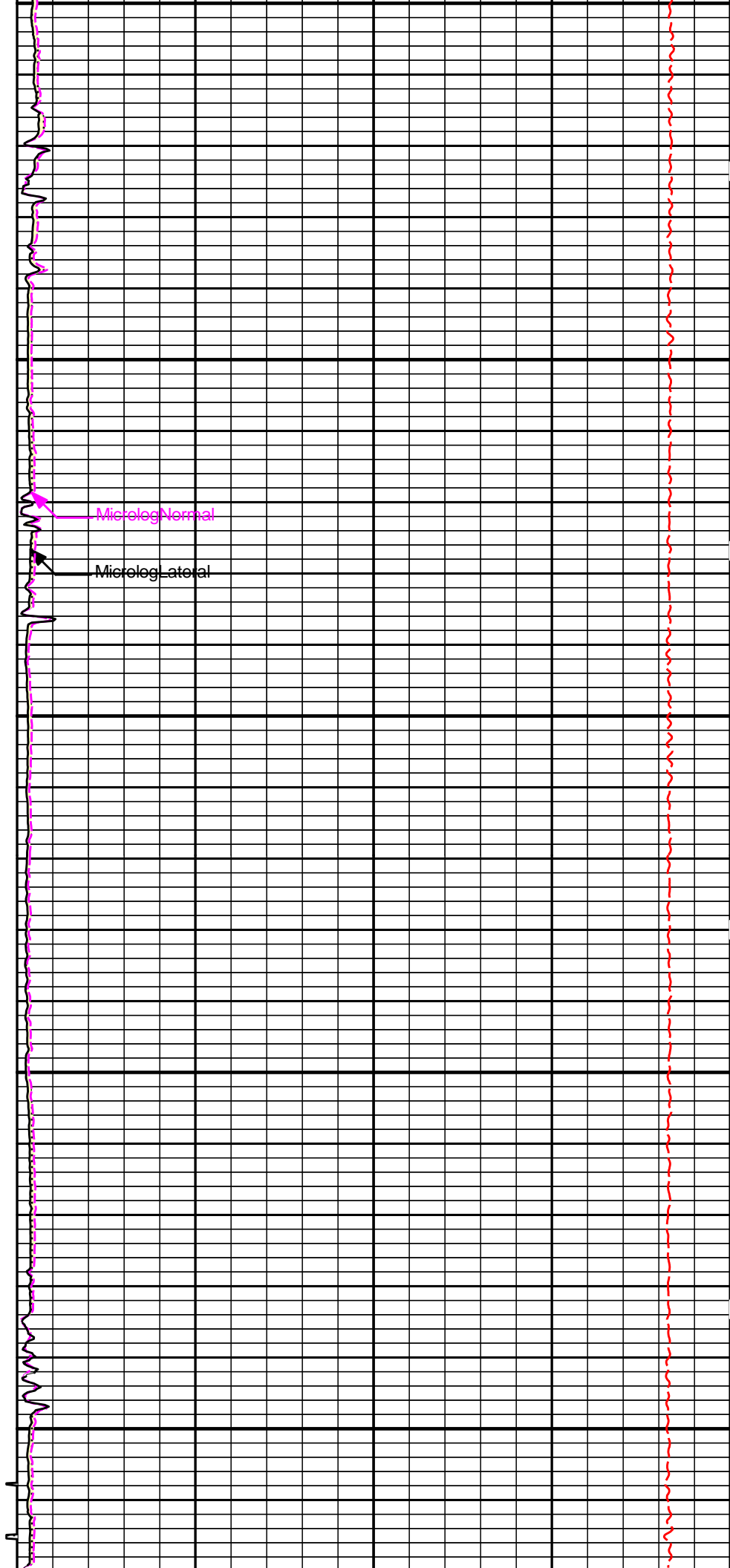
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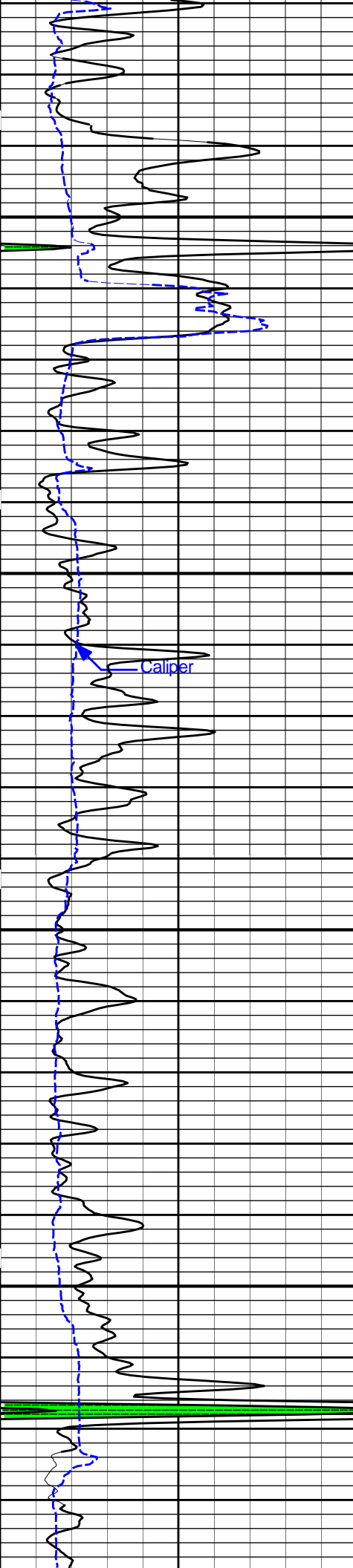
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3900



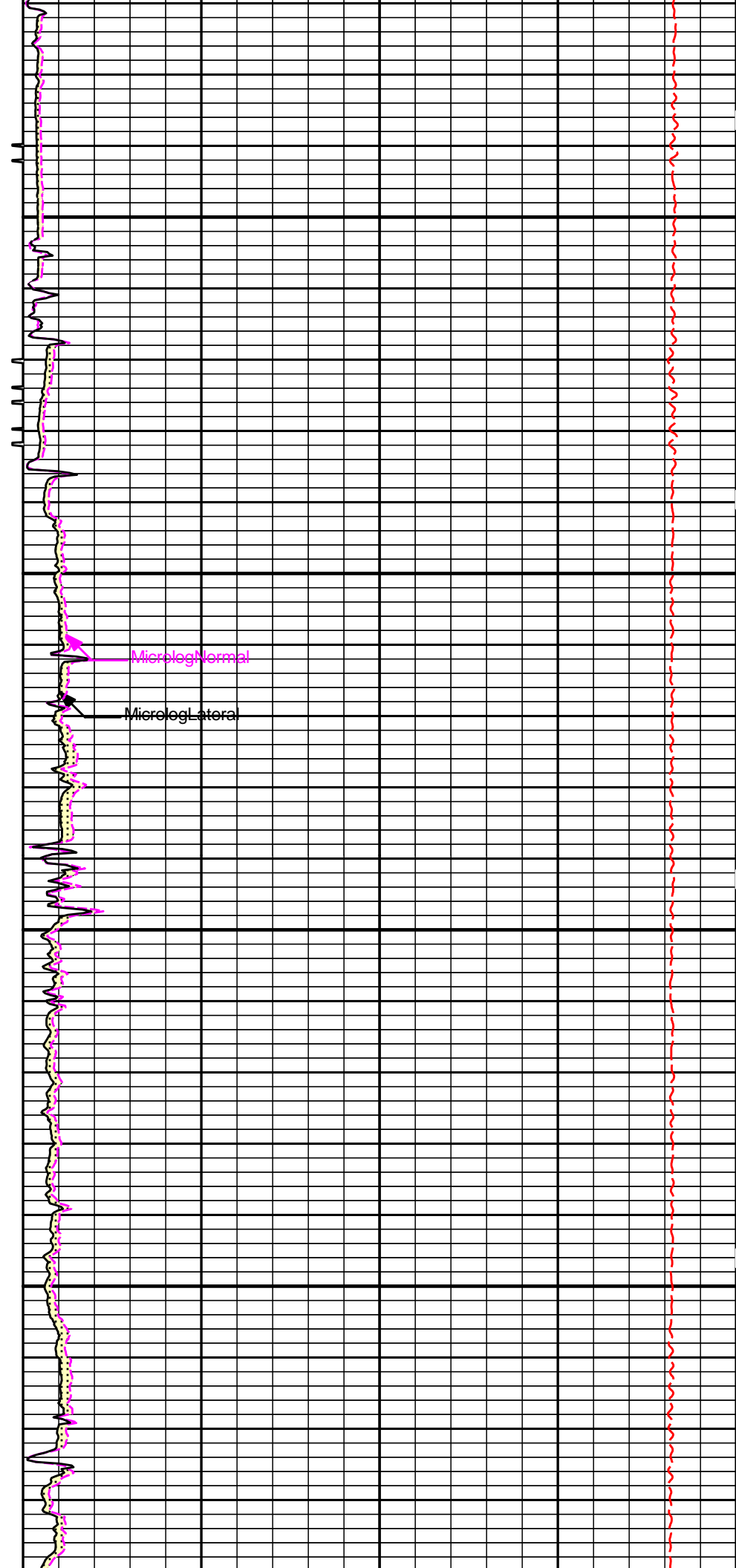
MicrologNormal

MicrologLateral



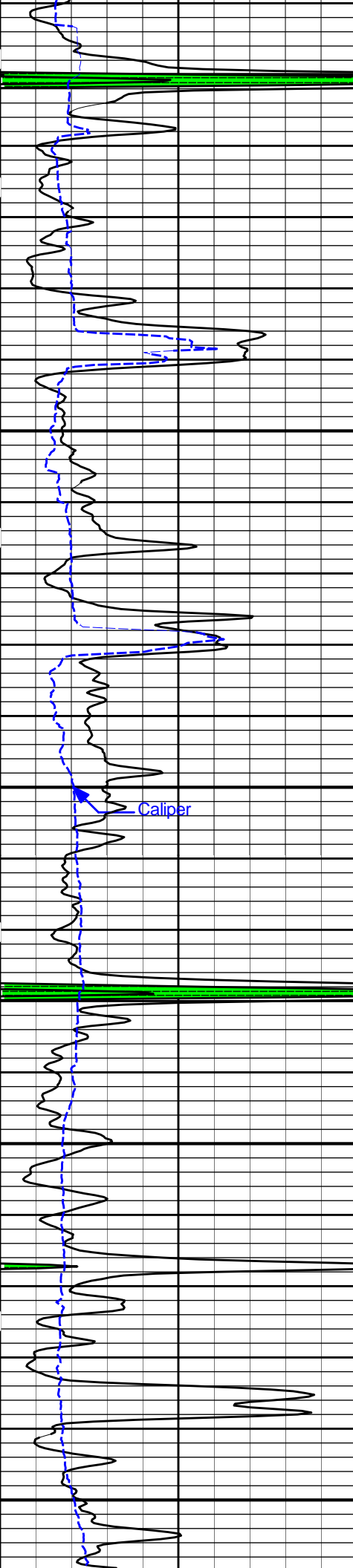
4000

4100



MicrologNormal

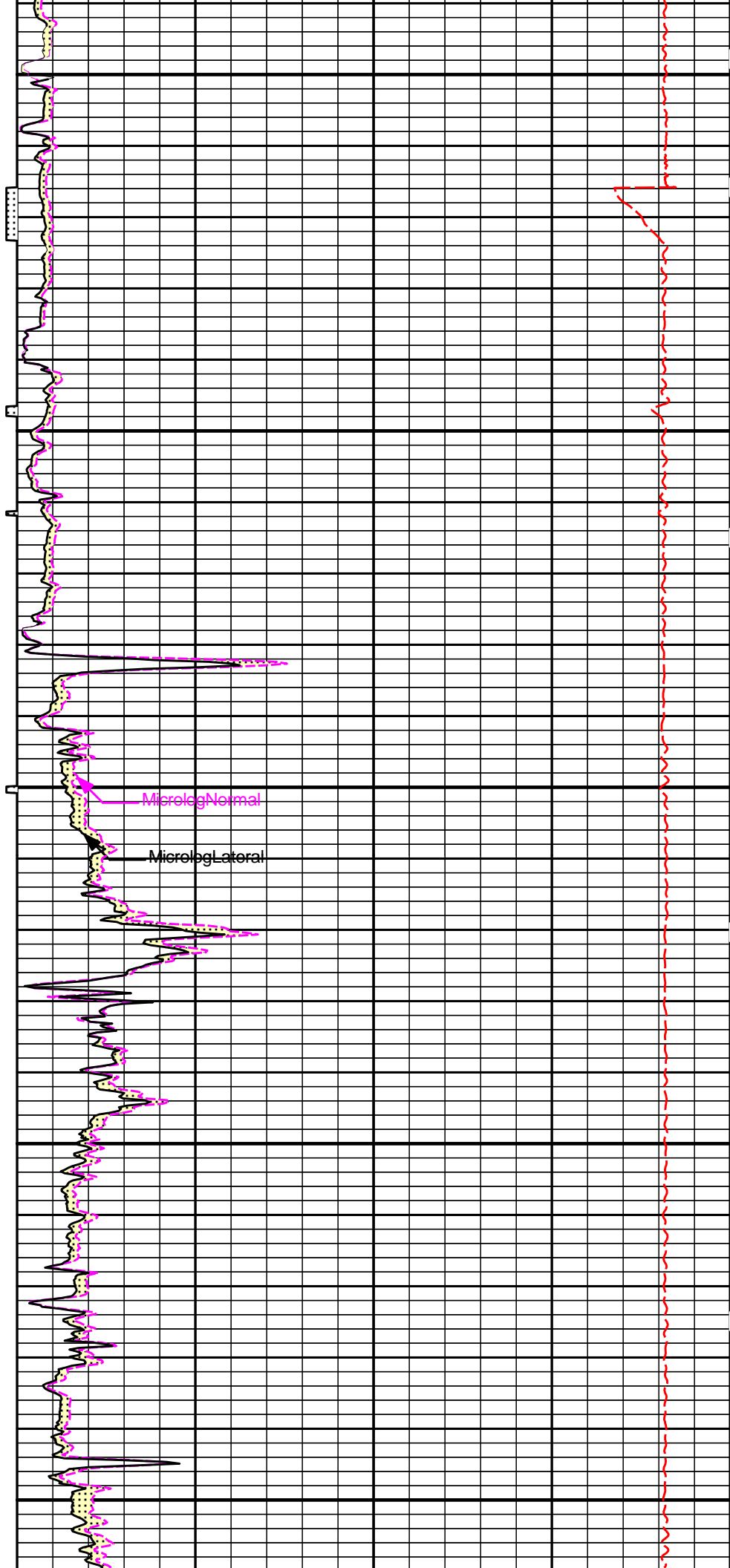
MicrologLateral



4200

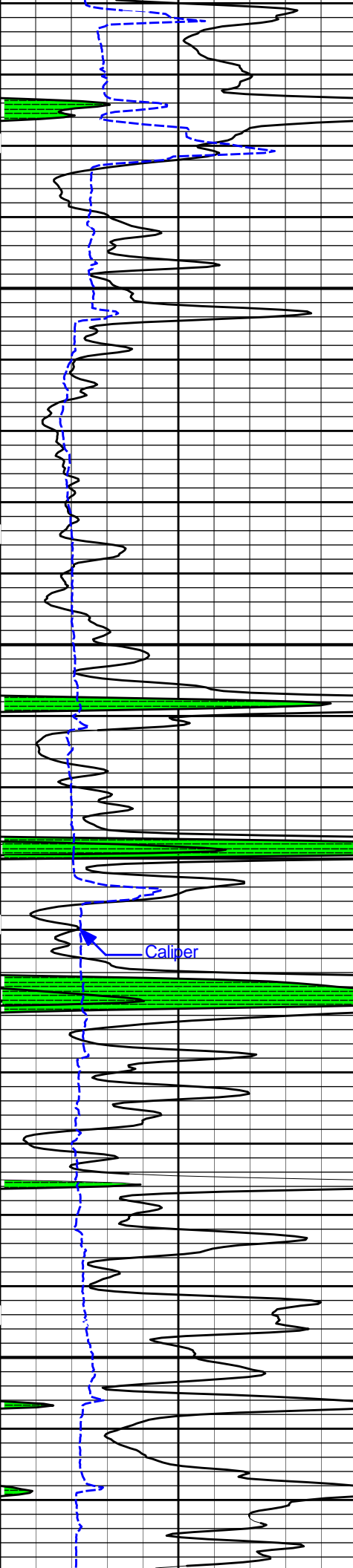
4300

4400



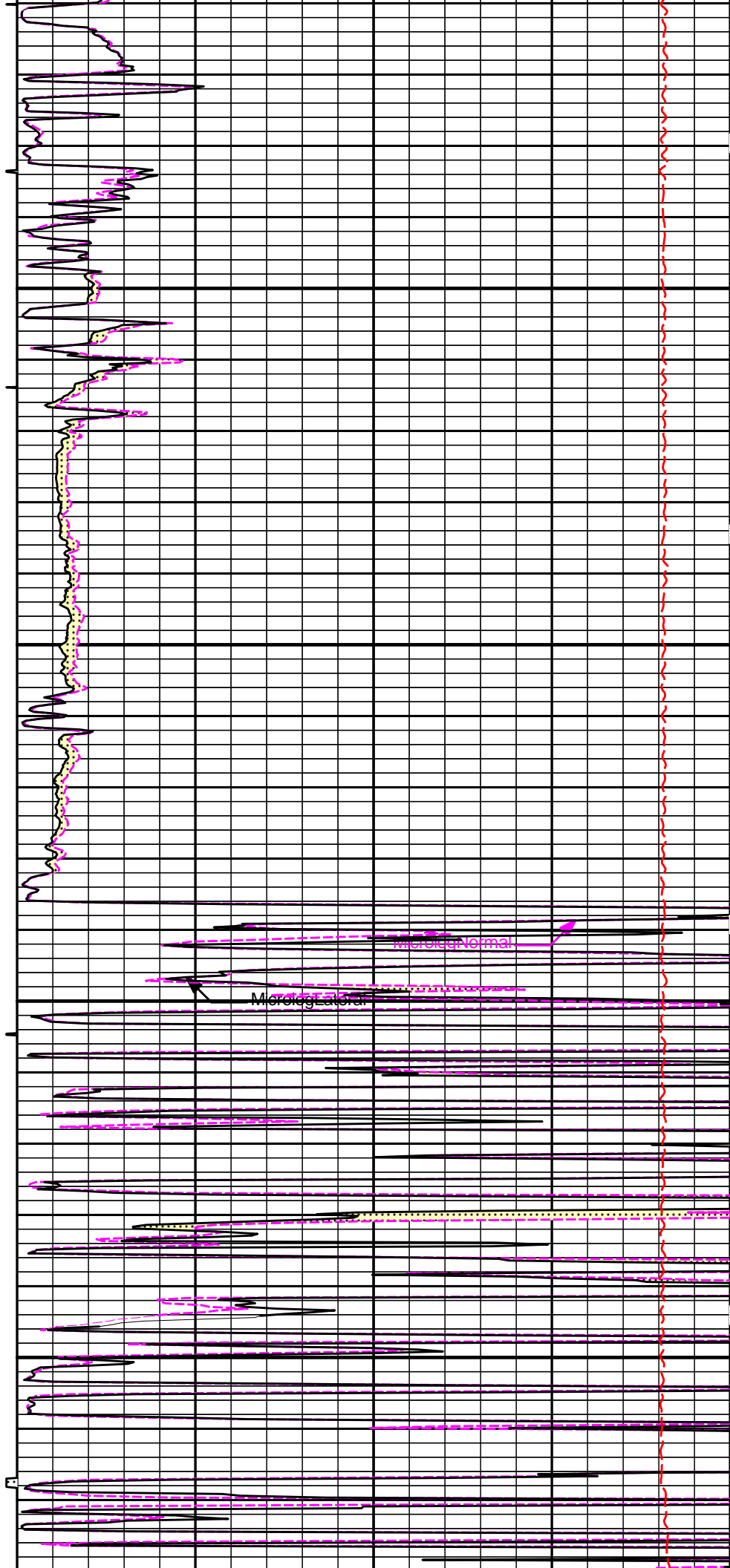
MicrologNormal

MicrologLateral



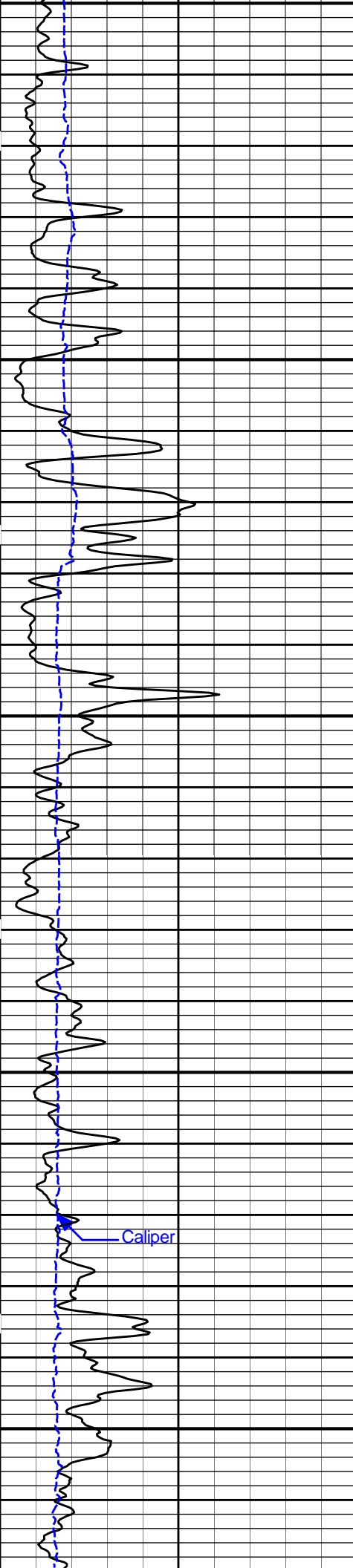
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4600



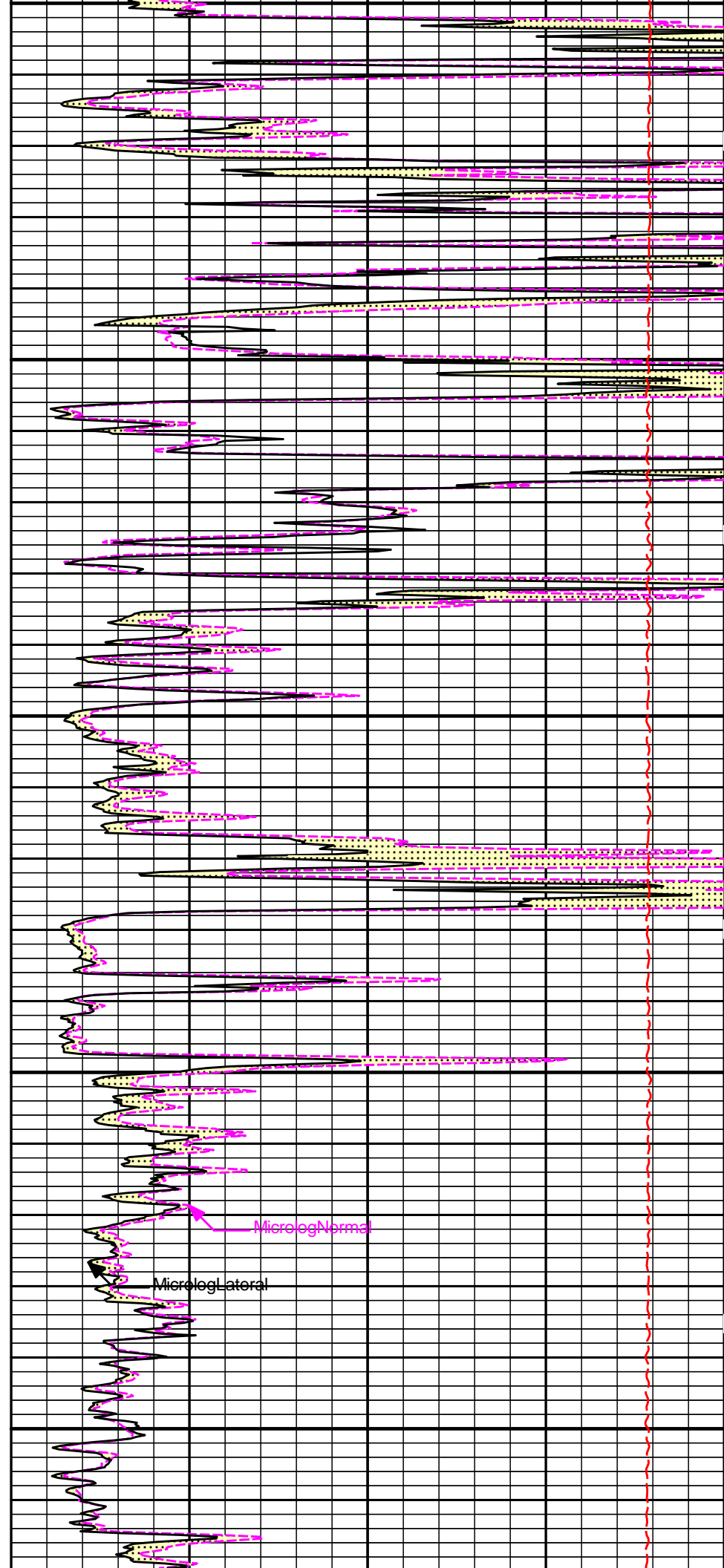
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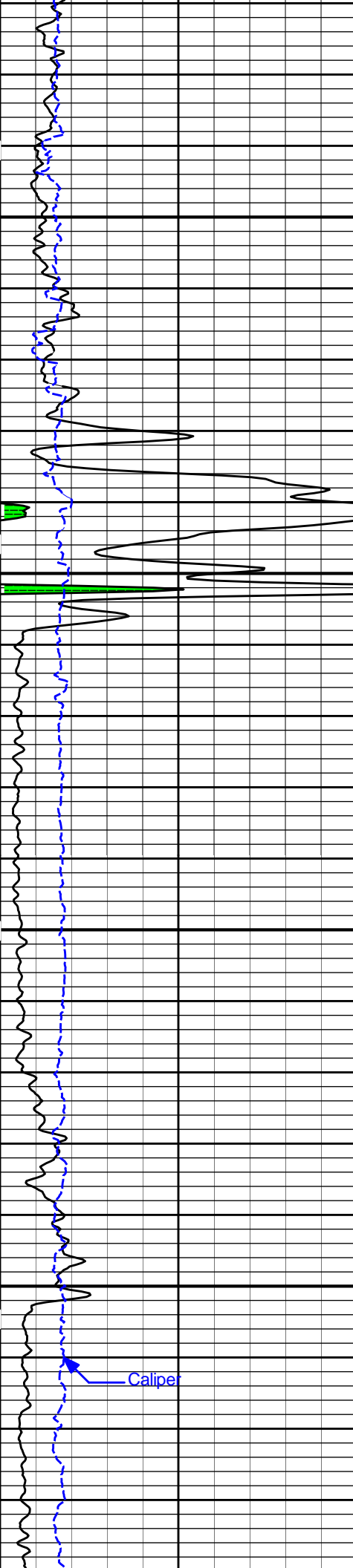
Microlog Lateral



4900

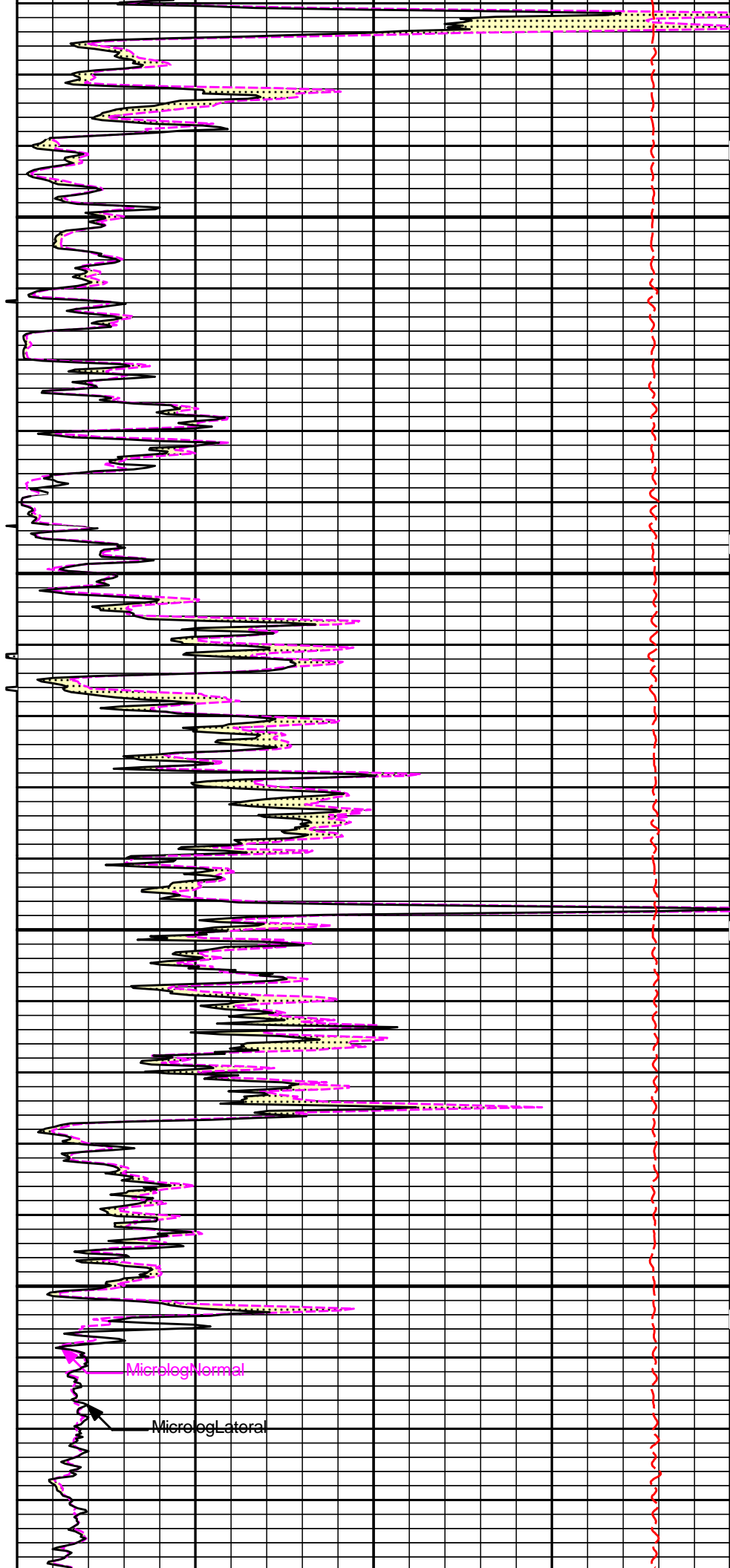
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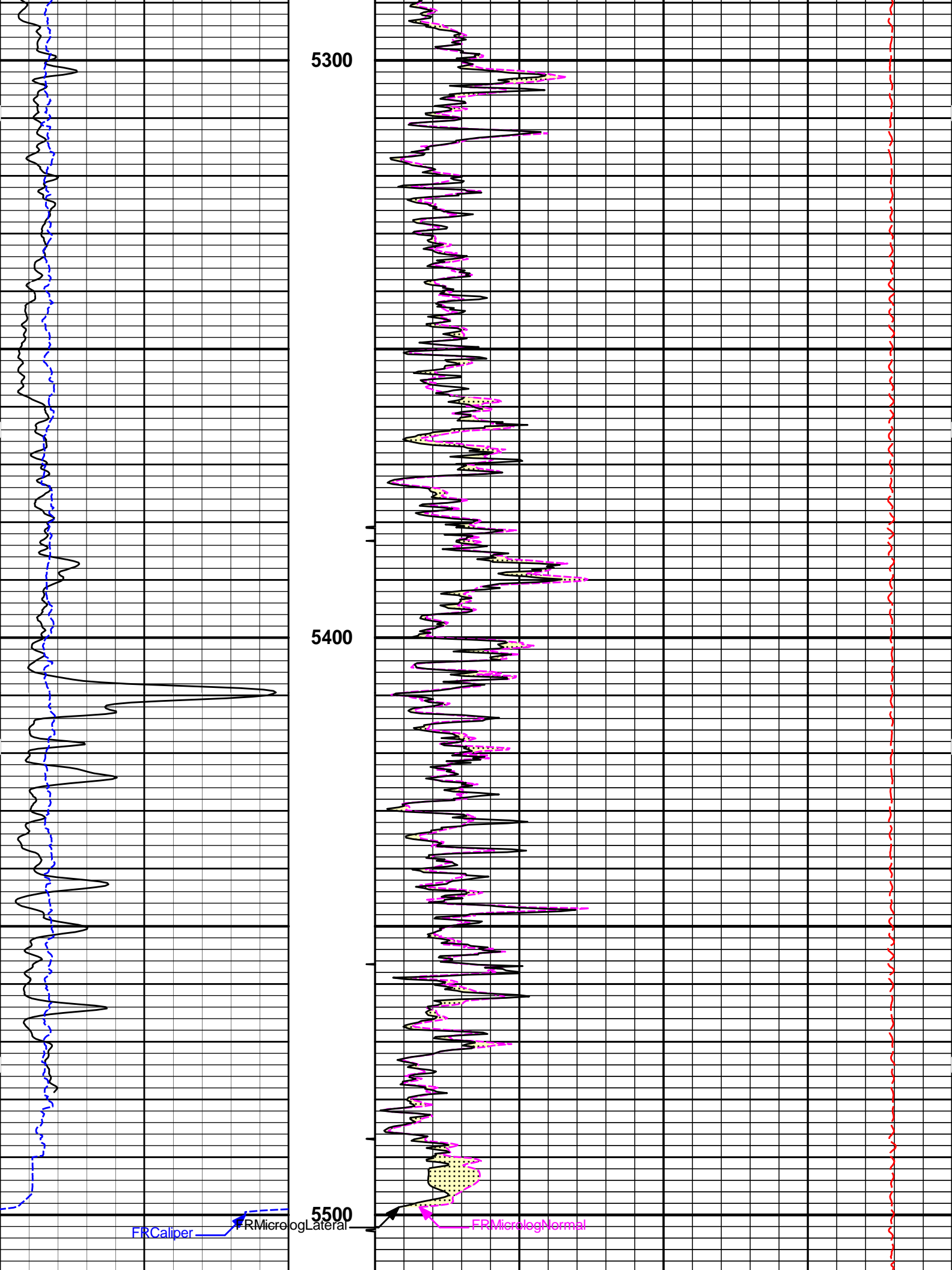
5100

5200



MicrologNormal

MicrologLateral



6	Caliper inches	16	MD 1 : 240 ft	15K	Tension pounds	0
0	Gamma API api	150	Tension Pull 10	0	MicrologLateral ohm-metre	20
	SHALE		Tension Pull	0	MicrologNormal ohm-metre	20
					PERMEABLE	

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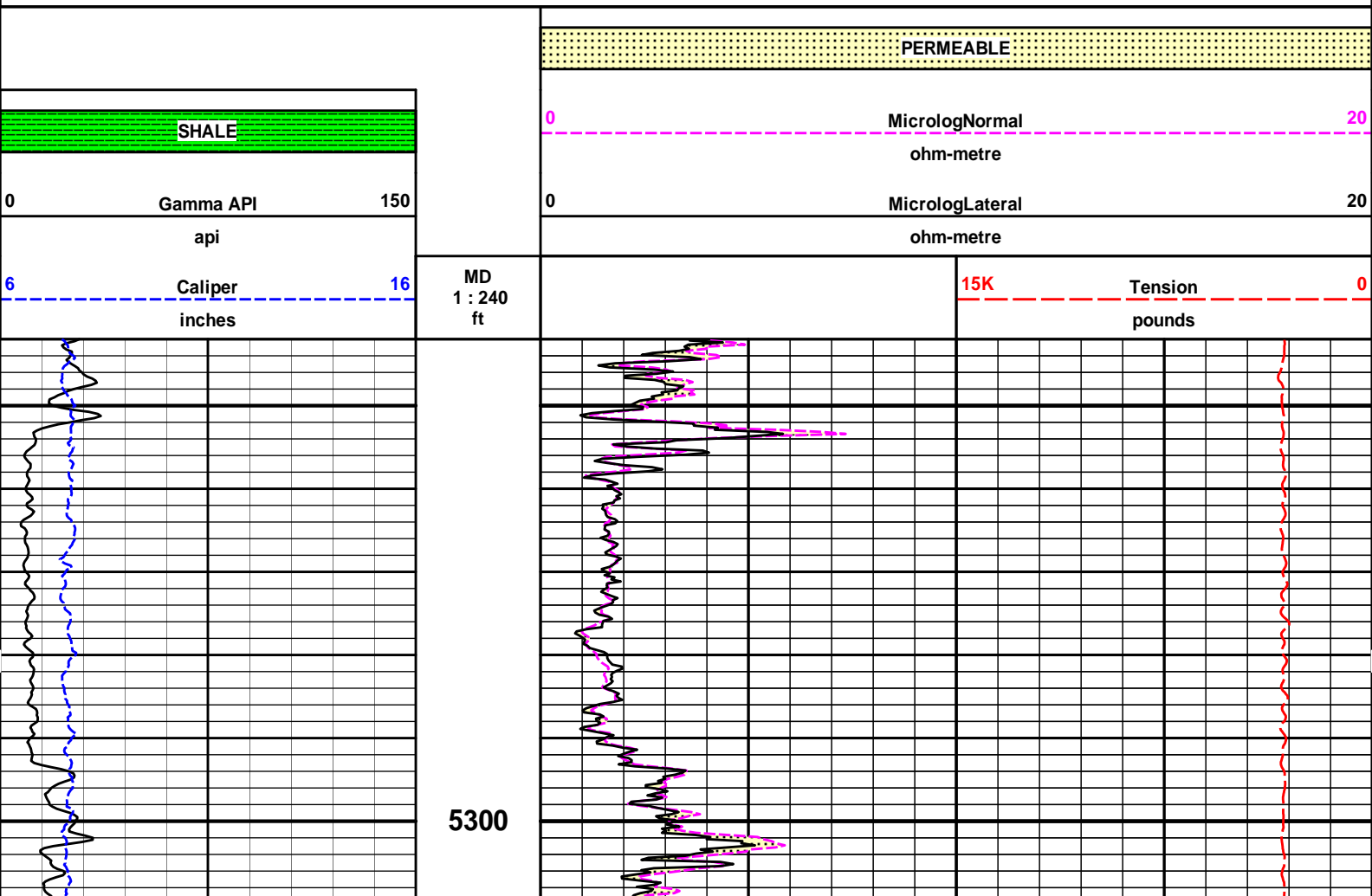
Plot Time: 05-Apr-13 05:58:37
 Plot Range: 400 ft to 5522.25 ft
 Data: RENEE_2230_1_2\Well Based\DAQ-0001-005\
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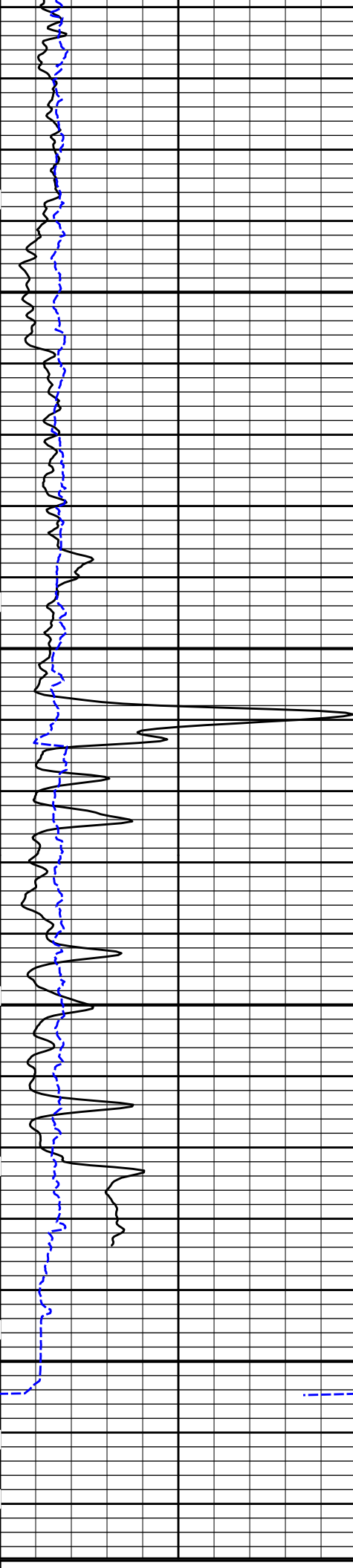
5 INCH MAIN LOG

HALLIBURTON

Plot Time: 05-Apr-13 05:58:37
 Plot Range: 5242 ft to 5527.67 ft
 Data: RENEE_2230_1_2\Well Based\DAQ-0001-004\
 Plot File: \\LOCAL-IRENEE_2230_1_2\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-CH\MICROW\Microlog_IQ_5_rep_lib

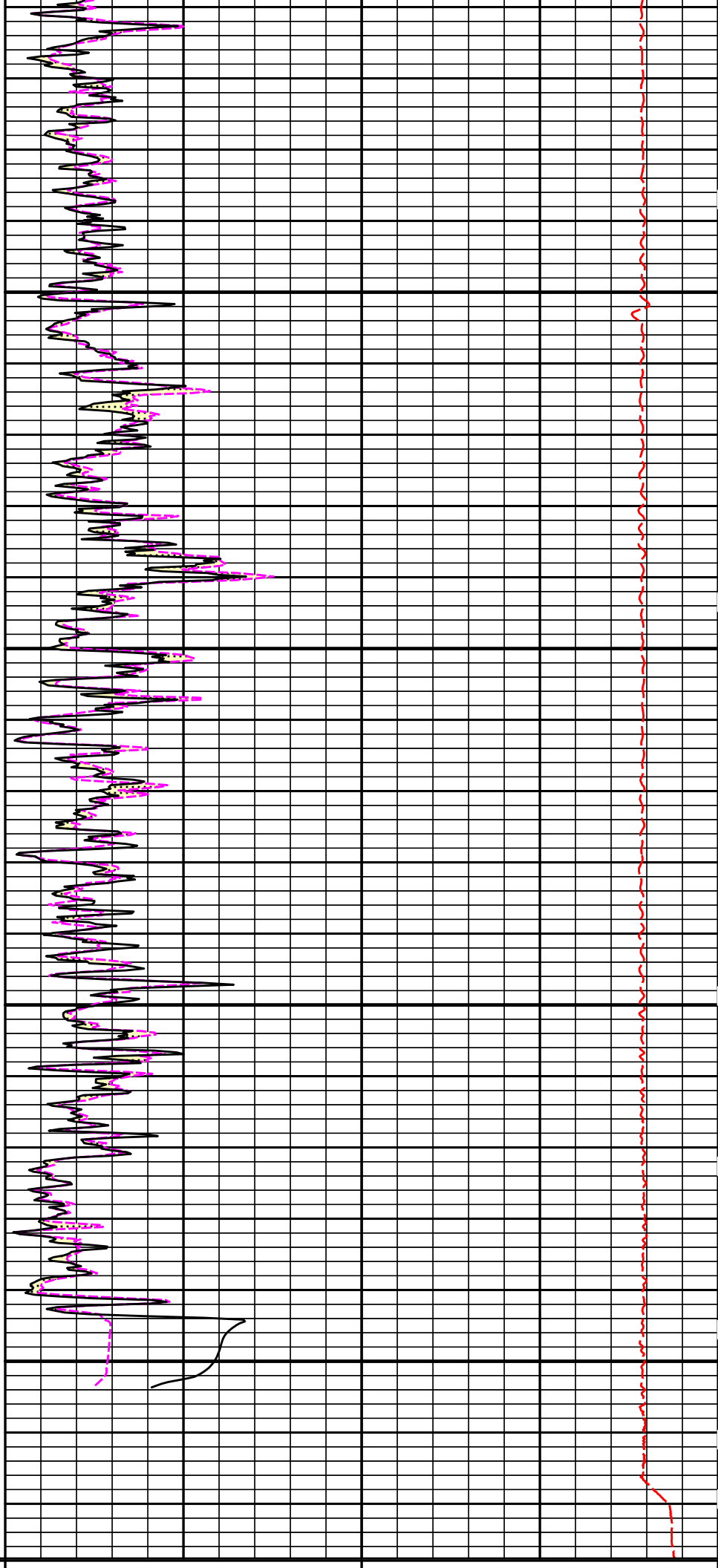
REPEAT SECTION





5400

5500



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: 05-Apr-13 05:58:38
 Plot Range: 5242 ft to 5527.67 ft
 Data: RENEE_2230_1_2\Well Based\DAQ-0001-004\
 Plot File: \\LOCAL-RENEE_2230_1_2\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-CHMICROW\microlog_IQ_5_rep_lib

REPEAT SECTION

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
CH_HOS-CH_696 37.50 lbs		Ø 2.750 in →		← Temperature @ 54.59 ft	3.03 ft	55.62 ft
SP Sub-11441455 60.00 lbs		Ø 3.625 in →		← SP @ 50.81 ft	3.74 ft	52.59 ft
GTET-11039640 165.00 lbs		Ø 3.625 in →		← GammaRay @ 42.79 ft	8.52 ft	48.85 ft
DSNT-11055304 174.00 lbs	DSN Decentralizer- 11019643 6.60 lbs	Ø 5.000 in* → Ø 3.625 in →		← DSN Far @ 33.39 ft ← DSN Near @ 32.64 ft	9.69 ft	40.33 ft
SDLT-11014296 360.00 lbs	SDLT Pad-10865884	Ø 4.500 in →			10.81 ft	30.64 ft

65.00 lbs
Microlog Pad-11014296
8.00 lbs

Ø 4.750 in*
Ø 4.750 in*

Microlog @ 22.83 ft
SDL Caliper @ 22.65 ft
SDL @ 22.64 ft

19.83 ft

ACRt Instrument-
I962
50.00 lbs

Ø 3.625 in →

5.03 ft

14.80 ft

Regal Standoff 6_75-1
20.00 lbs

Ø 6.750 in* →

← Mud Resistivity @ 13.44 ft

ACRt Sonde-
11005909
200.00 lbs

Ø 3.625 in →

14.22 ft

← ACRt @ 9.46 ft

Cabbage Head-
TRK696
10.00 lbs

Ø 3.625 in ↘
Ø 6.000 in →

0.58 ft

0.58 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_696	37.50	3.03	52.59	300.00
SP	SP Sub	11441455	60.00	3.74	48.85	300.00
GTET	Gamma Telemetry Tool	11039640	165.00	8.52	40.33	60.00
DSNT	Dual Spaced Neutron	11055304	174.00	9.69	30.64	60.00
DCNT	DSN Decentralizer	11019643	6.60	5.13 *	33.97	300.00
SDLT	Spectral Density Tool	11014296	360.00	10.81	19.83	60.00
SDLP	Density Insite Pad	10865884	65.00	2.55 *	22.04	60.00
MICP	Microlog Pad	11014296	8.00	1.00 *	22.33	60.00
ACRt	Array Compensated True Resistivity Instrument Section	I962	50.00	5.03	14.80	300.00
ACRt	Array Compensated True Resistivity Sonde Section	11005909	200.00	14.22	0.58	300.00
RSOF	Regal Standoff 6.75in	1	20.00	0.52 *	13.42	300.00
CBHD	Cabbage Head	TRK696	10.00	0.58	0.00	300.00
Total			1,156.10	55.62		

* Not included in Total Length and Length Accumulation.

Data: RENEE_2230_1_210001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-CHVDLE Date: 05-Apr-13 02:10:16

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name: GTET - 11039640	Reference Calibration Date: 14-Jan-13 11:39:27
Engineer: J. BOLLLOM	Calibration Date: 13-Feb-13 13:51:32
Software Version: WL INSITE R3.8.0 (Build 2)	Calibration Version: 1

Calibrator Source S/N: TB146

Calibrator ADI Reference: 265.00 ani

Calibrator API Reference:269.6 api

Equivalent Calibrator API Reference:269.6 api

Measurement	Measured	Calibrated	Units
Background	77.6	79.8	api
Background + Calibrator	339.7	349.5	api
Calibrator	262.1	269.6	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name: GTET - 11039640 **Reference Calibration Date:** 13-Feb-13 13:51:32
Engineer: THOMAS HYDE **Calibration Date:** 04-Apr-13 12:20:16
Software Version: WL INSITE R3.8.0 (Build 2) **Calibration Version:** 1

Calibrator Source S/N: TB146

Calibrator API Reference:265.00 api

Equivalent Calibrator API Reference:269.6 api

Field Verification	Shop	Field	Units
Background	79.8	54.7	api
Background + Calibrator	349.5	332.0	api
Calibrator	269.6	277.3	api

Shop	Field	Difference	Tolerance
269.6	277.3	-7.7	+/- 9.00

MICRO LOG SHOP CALIBRATION

Tool Name: Microlog Pad - 11014296 **Reference Calibration Date:** 04-Jan-13 10:49:34
Engineer: J. BOLLLOM **Calibration Date:** 13-Feb-13 09:47:22
Software Version: WL INSITE R3.8.0 (Build 2) **Calibration Version:** 1
Host Tool Name: DSNT - 11055304

CALIBRATION COEFFICIENT SUMMARY

Measurement	Micro Log Normal		Micro Log Lateral		Units
	Measured	Calibrated	Measured	Calibrated	
Tool Zero	-0.07	-0.14	-0.01	-0.01	ohmm
Calibration Point #1	0.07	0.00	0.00	0.00	ohmm
Calibration Point #2	20.02	20.00	19.95	20.00	ohmm
Internal Reference	19.89	19.88	19.94	19.99	ohmm

Measurement	Micro Log Normal Tool Value	Micro Log Lateral Tool Value	Units
Tool Zero	-0.64	-0.16	V
Calibration Point #1	36.40	3.51	V
Calibration Point #2	5296.44	6860.84	V
Internal Reference	5263.67	6856.12	V

MICRO LOG FIELD CHECK

Tool Name: Microlog Pad - 11014296 **Reference Calibration Date:** 13-Feb-13 09:47:22
Engineer: THOMAS HYDE **Calibration Date:** 04-Apr-13 12:17:50
Software Version: WL INSITE R3.8.0 (Build 2) **Calibration Version:** 1

Measurement	Micro Log Normal		Micro Log Lateral		Units
	Shop	Field	Shop	Field	
Tool Zero	-0.14	-0.14	-0.01	-0.01	ohmm
Internal Reference	19.88	19.88	19.99	19.99	ohmm

Summary

Signal	Shop	Field	Difference	Tolerance
Microlog Normal	19.88	19.88	0.00	+/- 0.80
Microlog Lateral	19.99	19.99	0.00	+/- 0.80

CALIBRATION SUMMARY

Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11039640						
Gamma Ray Calibrator	269.6	277.3	-----	-7.7	+/- 9.00	api
Microlog Pad-11014296						
MicroLog Normal	19.88	19.88	-----	0.00	+/-0.80	ohmm
MicroLog Lateral	19.99	19.99	-----	0.00	+/-0.80	ohmm

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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	8.500	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	75.0	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	5595.00	ft
	SHARED	BHT	Bottom Hole Temperature	200.0	degF
	SHARED	SVTM	Navigation and Survey Master Tool	NONE	
	SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET	
	SHARED	TEMM	Temperature Master Tool	NONE	
	SHARED	BHSM	Borehole Size 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	
	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	0.250	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	
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?	No	
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	RMIN	Maximum Resistivity for MAP	200.00	ohmm
ACRt Sonde	THQY	Threshold Quality	0.50	
ACRt Sonde	MRFX	Fixed mud resistivity	2000	ohmm

BOTTOM

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INPUTS, DELAYS AND FILTERS TABLE

Mnemonic	Input Description	Delay (ft)	Filter Type	Filter Length (ft)
Depth Panel				
TENS	Tension	0.00	NO	
CH_HOS				
DHTN	Downhole Tension	0.00	BLK	0.000
SP Sub				
PLTC	Plot Control Mask	50.81	NO	
SP	Spontaneous Potential	50.81	BLK	1.250
SPR	Raw Spontaneous Potential	50.81	NO	
SPO	Spontaneous Potential Offset	50.81	NO	
GTET				
TPUL	Tension Pull	42.79	NO	
GR	Natural Gamma Ray API	42.79	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	42.79	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	42.79	W	1.416 , 0.750

ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	
DSNT				
TPUL	Tension Pull	32.54	NO	
RNDS	Near Detector Telemetry Counts	32.64	BLK	1.417
RFDS	Far Detector Telemetry Counts	33.39	TRI	0.583
DNTT	DSN Tool Temperature	32.64	NO	
DSNS	DSN Tool Status	32.54	NO	
ERND	Near Detector Telemetry Counts EVR	32.64	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	33.39	BLK	0.000
ENTM	DSN Tool Temperature EVR	32.64	NO	
SDLT				
TPUL	Tension Pull	22.65	NO	
PCAL	Pad Caliper	22.65	TRI	0.250
ACAL	Arm Caliper	22.65	TRI	0.250
ACRt Sonde				
TPUL	Tension Pull	2.97	NO	
F1R1	ACRT 12KHz - 80in R value	9.22	BLK	0.000
F1X1	ACRT 12KHz - 80in X value	9.22	BLK	0.000
F1R2	ACRT 12KHz - 50in R value	6.72	BLK	0.000
F1X2	ACRT 12KHz - 50in X value	6.72	BLK	0.000
F1R3	ACRT 12KHz - 29in R value	5.22	BLK	0.000
F1X3	ACRT 12KHz - 29in X value	5.22	BLK	0.000
F1R4	ACRT 12KHz - 17in R value	4.22	BLK	0.000
F1X4	ACRT 12KHz - 17in X value	4.22	BLK	0.000
F1R5	ACRT 12KHz - 10in R value	3.72	BLK	0.000
F1X5	ACRT 12KHz - 10in X value	3.72	BLK	0.000
F1R6	ACRT 12KHz - 6in R value	3.47	BLK	0.000
F1X6	ACRT 12KHz - 6in X value	3.47	BLK	0.000
F2R1	ACRT 36KHz - 80in R value	9.22	BLK	0.000
F2X1	ACRT 36KHz - 80in X value	9.22	BLK	0.000
F2R2	ACRT 36KHz - 50in R value	6.72	BLK	0.000
F2X2	ACRT 36KHz - 50in X value	6.72	BLK	0.000
F2R3	ACRT 36KHz - 29in R value	5.22	BLK	0.000
F2X3	ACRT 36KHz - 29in X value	5.22	BLK	0.000
F2R4	ACRT 36KHz - 17in R value	4.22	BLK	0.000
F2X4	ACRT 36KHz - 17in X value	4.22	BLK	0.000
F2R5	ACRT 36KHz - 10in R value	3.72	BLK	0.000
F2X5	ACRT 36KHz - 10in X value	3.72	BLK	0.000
F2R6	ACRT 36KHz - 6in R value	3.47	BLK	0.000
F2X6	ACRT 36KHz - 6in X value	3.47	BLK	0.000
F3R1	ACRT 72KHz - 80in R value	9.22	BLK	0.000
F3X1	ACRT 72KHz - 80in X value	9.22	BLK	0.000
F3R2	ACRT 72KHz - 50in R value	6.72	BLK	0.000
F3X2	ACRT 72KHz - 50in X value	6.72	BLK	0.000
F3R3	ACRT 72KHz - 29in R value	5.22	BLK	0.000
F3X3	ACRT 72KHz - 29in X value	5.22	BLK	0.000
F3R4	ACRT 72KHz - 17in R value	4.22	BLK	0.000
F3X4	ACRT 72KHz - 17in X value	4.22	BLK	0.000
F3R5	ACRT 72KHz - 10in R value	3.72	BLK	0.000
F3X5	ACRT 72KHz - 10in X value	3.72	BLK	0.000
F3R6	ACRT 72KHz - 6in R value	3.47	BLK	0.000
F3X6	ACRT 72KHz - 6in X value	3.47	BLK	0.000

33X6	ACRT 72KHZ - 6in X value	3.47	BLK	0.000
RMUD	Mud Resistivity	12.76	BLK	0.000
F1RT	Transmitter Current Raw 12K X Receiver	2.97	BLK	0.000
F1XT	Transmitter Reference 12 KHz Imaginary Signal	2.97	BLK	0.000
F2RT	Transmitter Reference 36 KHz Real Signal	2.97	BLK	0.000
F2XT	Transmitter Reference 36 KHz Imaginary Signal	2.97	BLK	0.000
F3RT	Transmitter Reference 72 KHz Real Signal	2.97	BLK	0.000
F3XT	Transmitter Reference 72 KHz Imaginary Signal	2.97	BLK	0.000
TFPU	Upper Feedpipe Temperature Calculated	2.97	BLK	0.000
TFPL	Lower Feedpipe Temperature Calculated	2.97	BLK	0.000
ITMP	Instrument Temperature	2.97	BLK	0.000
TCVA	Temperature Correction Values Loop Off	2.97	NO	
TIDV	Instrument Temperature Derivative	2.97	NO	
TUDV	Upper Temperature Derivative	2.97	NO	
TLDV	Lower Temperature Derivative	2.97	NO	
TRBD	Receiver Board Temperature	2.97	NO	

SDLT Pad

TPUL	Tension Pull	22.64	NO	
NAB	Near Above	22.46	BLK	0.920
NHI	Near Cesium High	22.46	BLK	0.920
NLO	Near Cesium Low	22.46	BLK	0.920
NVA	Near Valley	22.46	BLK	0.920
NBA	Near Barite	22.46	BLK	0.920
NDE	Near Density	22.46	BLK	0.920
NPK	Near Peak	22.46	BLK	0.920
NLI	Near Lithology	22.46	BLK	0.920
NBAU	Near Barite Unfiltered	22.46	BLK	0.250
NLIU	Near Lithology Unfiltered	22.46	BLK	0.250
FAB	Far Above	22.81	BLK	0.250
FHI	Far Cesium High	22.81	BLK	0.250
FLO	Far Cesium Low	22.81	BLK	0.250
FVA	Far Valley	22.81	BLK	0.250
FBA	Far Barite	22.81	BLK	0.250
FDE	Far Density	22.81	BLK	0.250
FPK	Far Peak	22.81	BLK	0.250
FLI	Far Lithology	22.81	BLK	0.250
PTMP	Pad Temperature	22.65	BLK	0.920
NHV	Near Detector High Voltage	22.04	NO	
FHV	Far Detector High Voltage	22.04	NO	
ITMP	Instrument Temperature	22.04	NO	
DDHV	Detector High Voltage	22.04	NO	

Microlog Pad

TPUL	Tension Pull	22.83	NO	
MINV	Microlog Lateral	22.83	BLK	0.750
MNOR	Microlog Normal	22.83	BLK	0.750

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COMPANY	SANDRIDGE EXPLORATION			
WELL	RENEE 2230 1-2			
FIELD	STUART			
COUNTY	FINNEY	STATE	KANSAS	

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