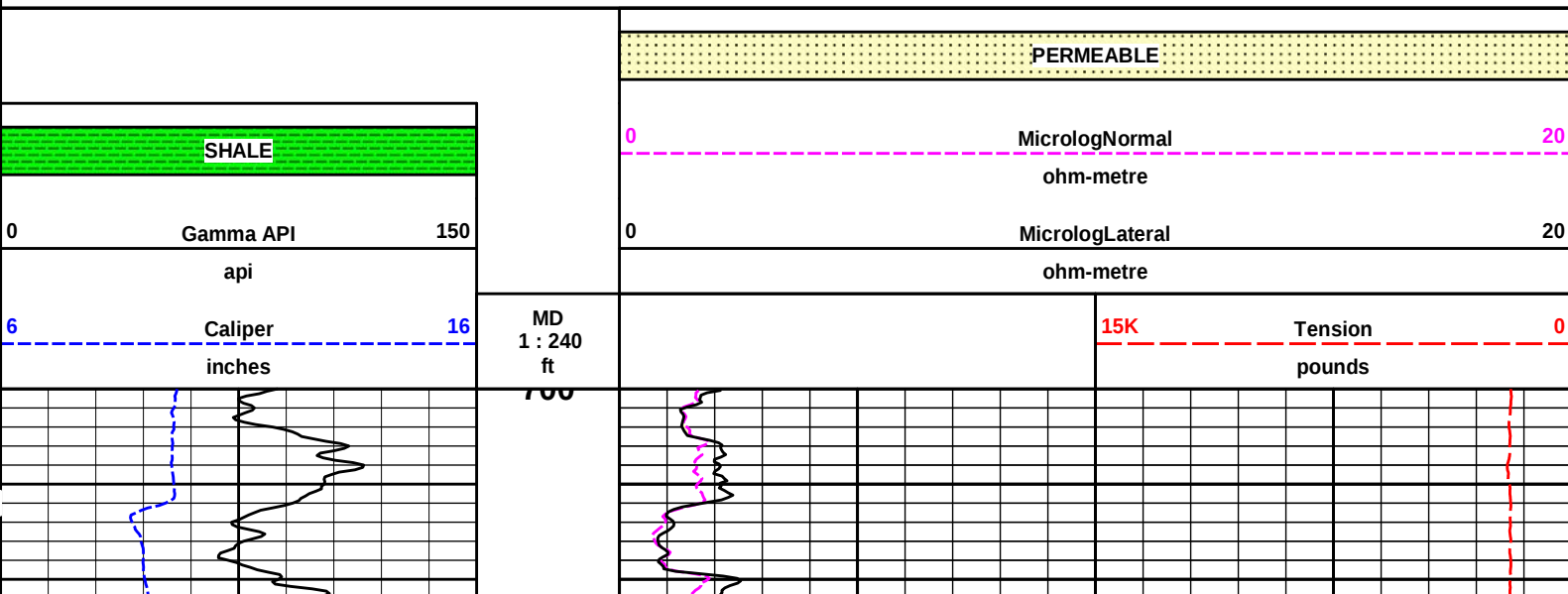


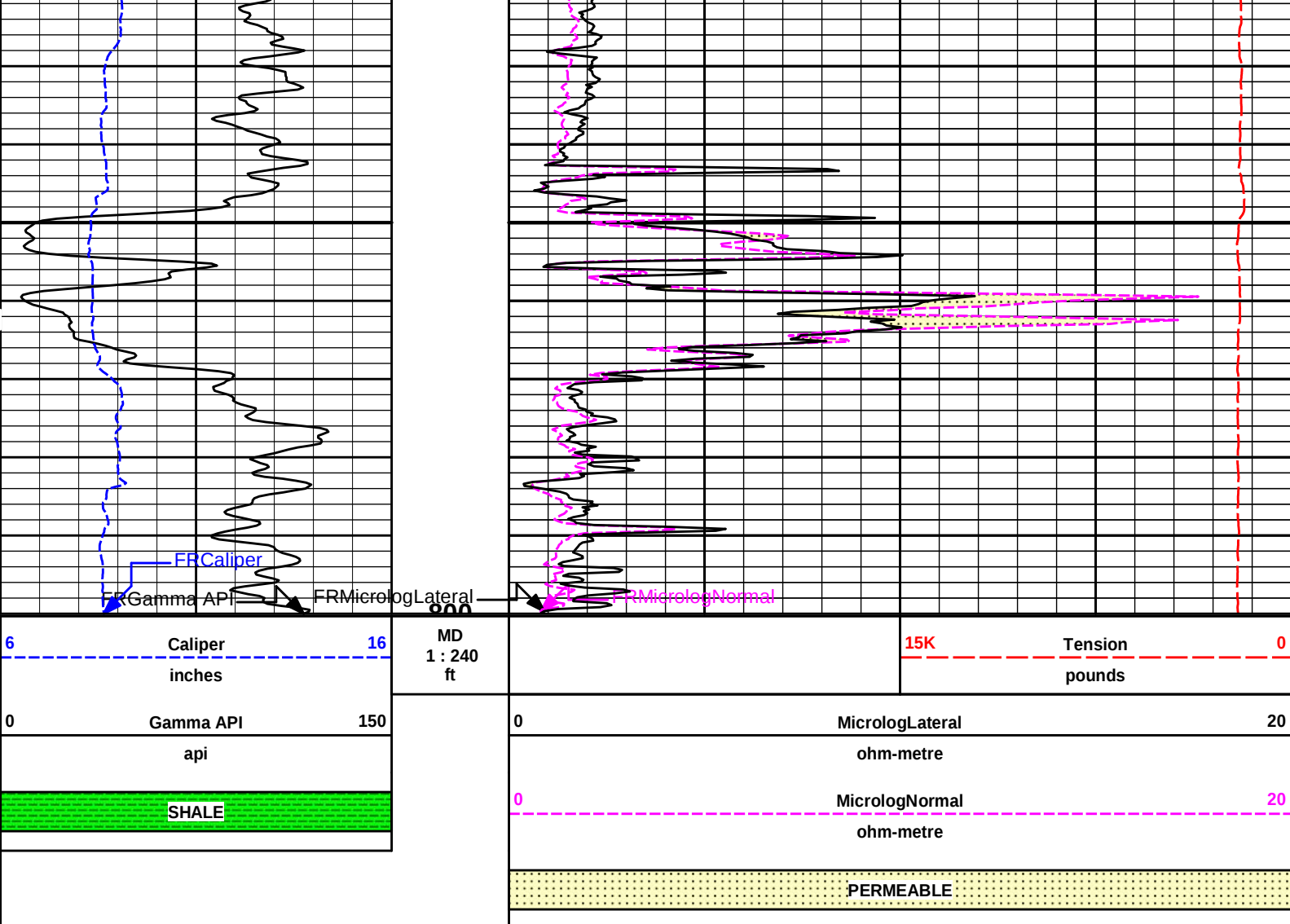
MICROLOG

HARTMAN OIL CO., INC.										HARTMAN OIL CO., INC.									
HEYEN #1-2										HEYEN #1-2									
GRAY NORTH FIELD										GRAY NORTH FIELD									
STAFFORD										STAFFORD									
KANSAS										KANSAS									
COMPANY										COMPANY									
WELL										WELL									
FIELD/BLOCK										FIELD/BLOCK									
COUNTY										COUNTY									
STATE										STATE									
Permanent Datum										GL									
Log measured from										KB									
Drilling measured from										KB									
Date										03-Jul-14									
Run No.										ONE									
Depth - Driller										4090.00 ft									
Depth - Logger										4090.0 ft									
Bottom - Logged Interval										4046.0 ft									
Top - Logged Interval										700.0 ft									
Casing - Driller										8.625 in @ 354.0 ft									
Casing - Logger										352.0 ft									
Bit Size										7.875 in									
Type Fluid in Hole										Water Based Mud									
Density										9.2 ppq									
Viscosity										60.00 s/qt									
PH										10.50 pH									
Fluid Loss										9.2 cpim									
Source of Sample										MUD PIT									
Rm @ Meas. Temperature										0.450 ohmm @ 75.00 degF									
Rmf @ Meas. Temperature										0.33 ohmm @ 75.00 degF									
Rmc @ Meas. Temperature										0.560 ohmm @ 75.00 degF									
Source Rmf										MEASURED									
Rm @ BHT										0.29 ohmm @ 120.0 degF									
Time Since Circulation										4.0000 hr									
Time on Bottom										03-Jul-14 16:47									
Max. Rec. Temperature										120.0 degF @ 4090.0 ft									
Equipment										11072142									
Location										LIBERAL									
Recorded By										J. BOLLOW									
Witnessed By										K. NOAH									

Fold here

Service Ticket No.: 901478501				API Serial No.: 15-185-23886-00-00				PGM Version: WL INSITE R4.2.0 (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	MICROLOG	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.	11048627		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		





HALLIBURTON

Plot Time: 03-Jul-14 19:11:09
Plot Range: 700 ft to 800 ft
Data: HEYEN_1-2\Well Based\DETAIL_TOP\
Plot File: \\LOCAL\HEYEN_1-2\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BN\MICRO\Microlog_IQ_5_main_lib

5 INCH MAIN LOG

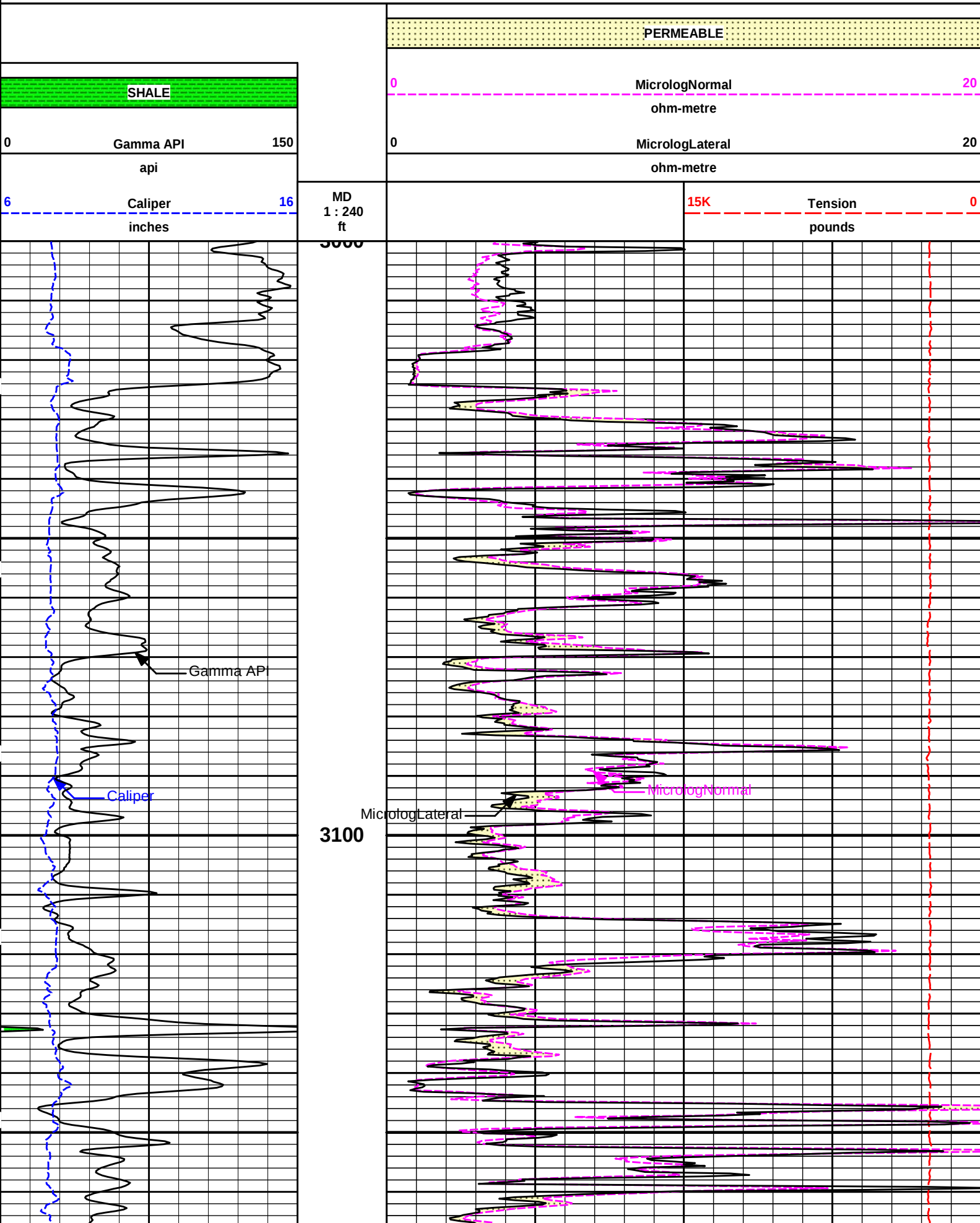
MEASURED DEPTH
MAIN LOG 5" PER 100'

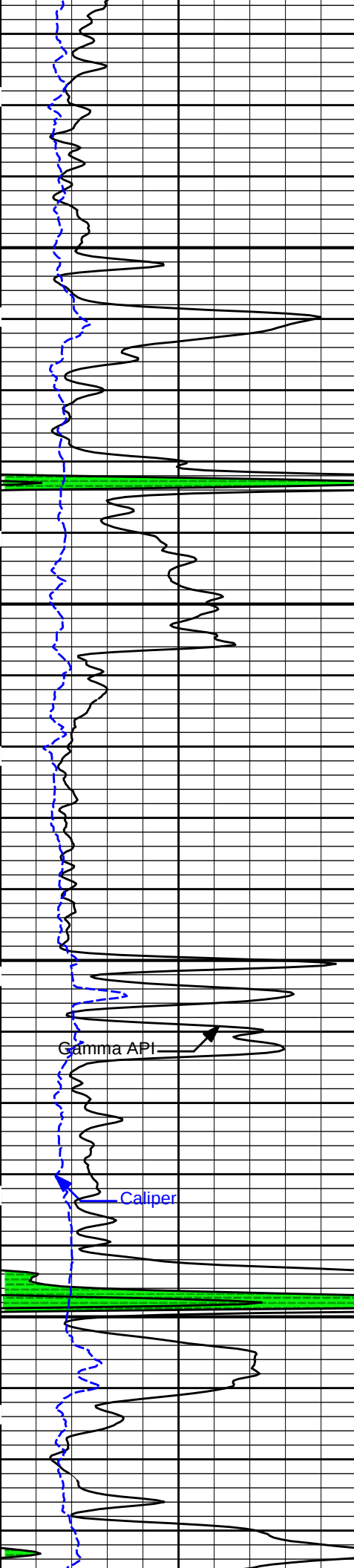
HALLIBURTON

Plot Time: 03-Jul-14 19:11:09
Plot Range: 3000 ft to 4094 ft
Data: HEYEN_1-2\Well Based\DETAIL_BOTTOM\
Plot File: \\LOCAL\HEYEN_1-2\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BN\MICRO\Microlog_IQ_5_main_lib

5 INCH MAIN LOG

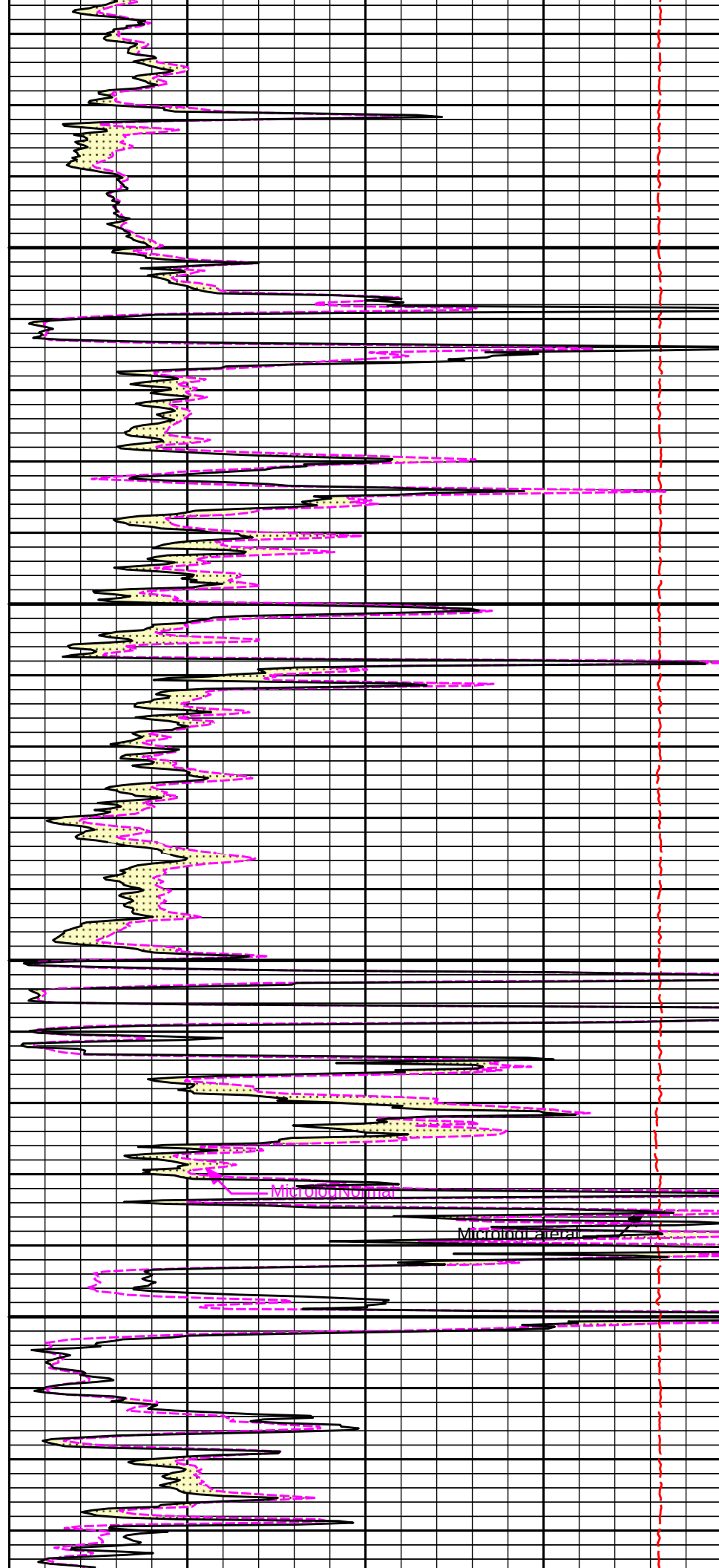
MEASURED DEPTH
MAIN LOG 5" PER 100'

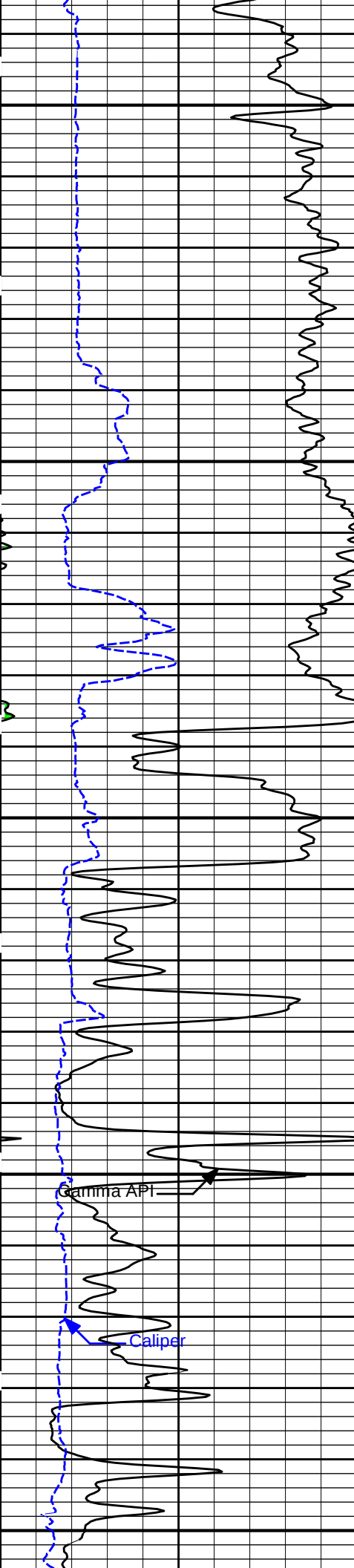




3200

3300

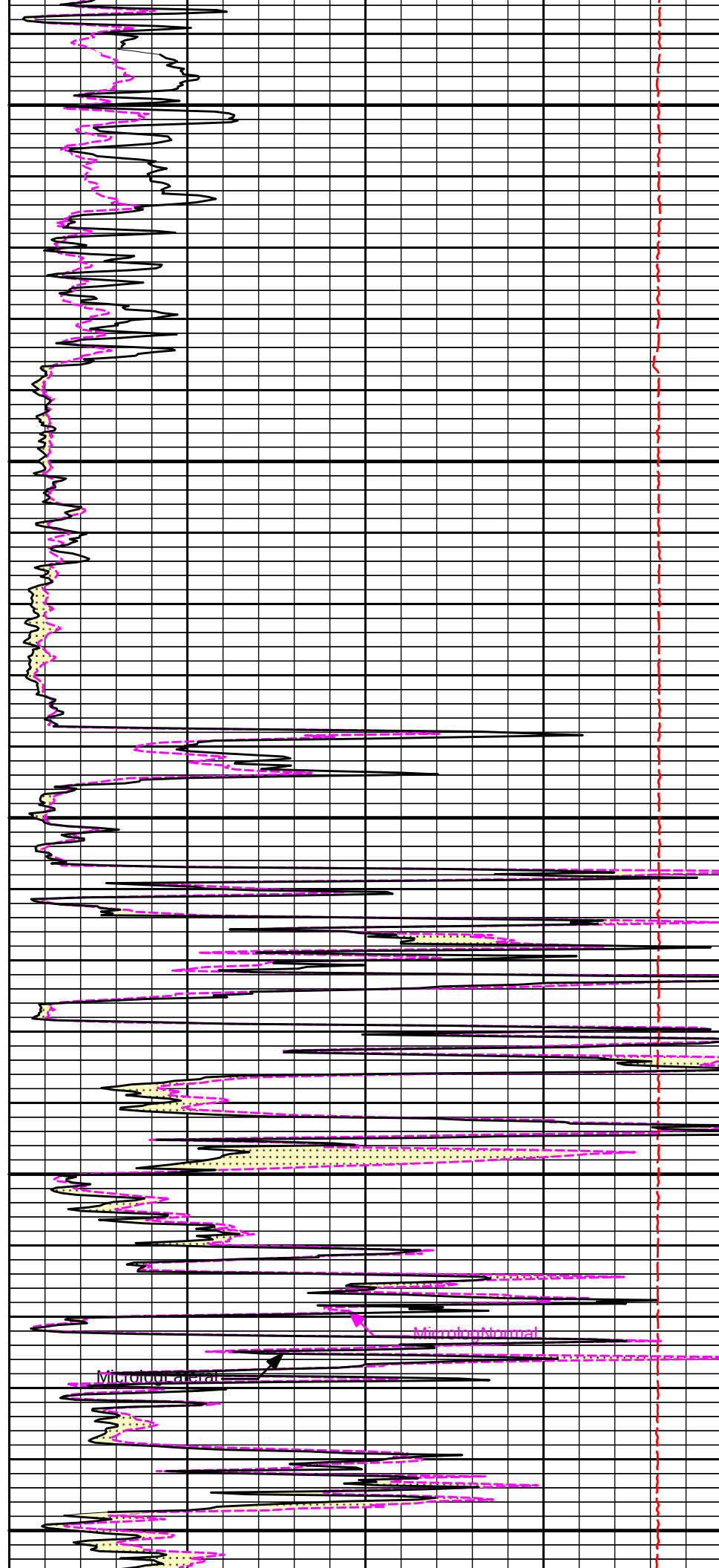


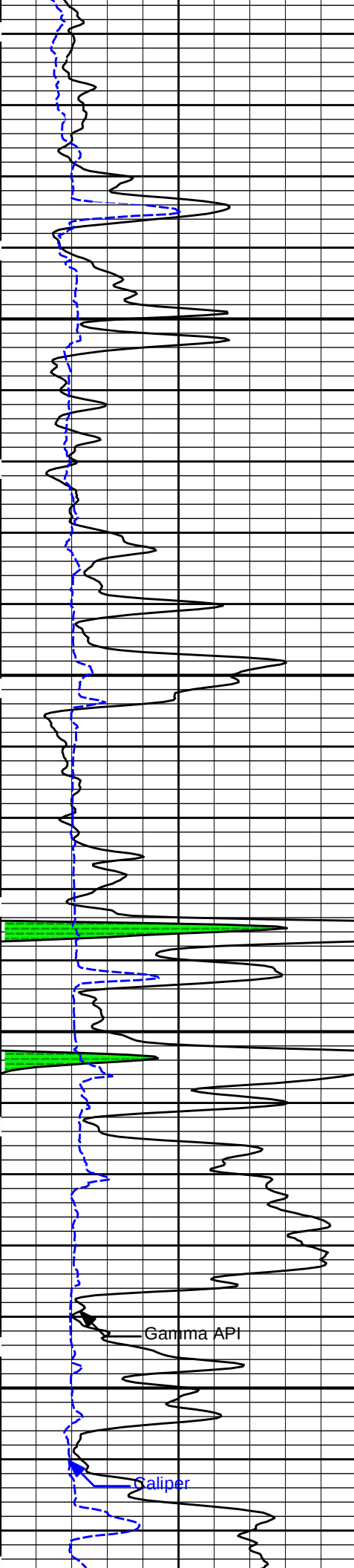


3400

3500

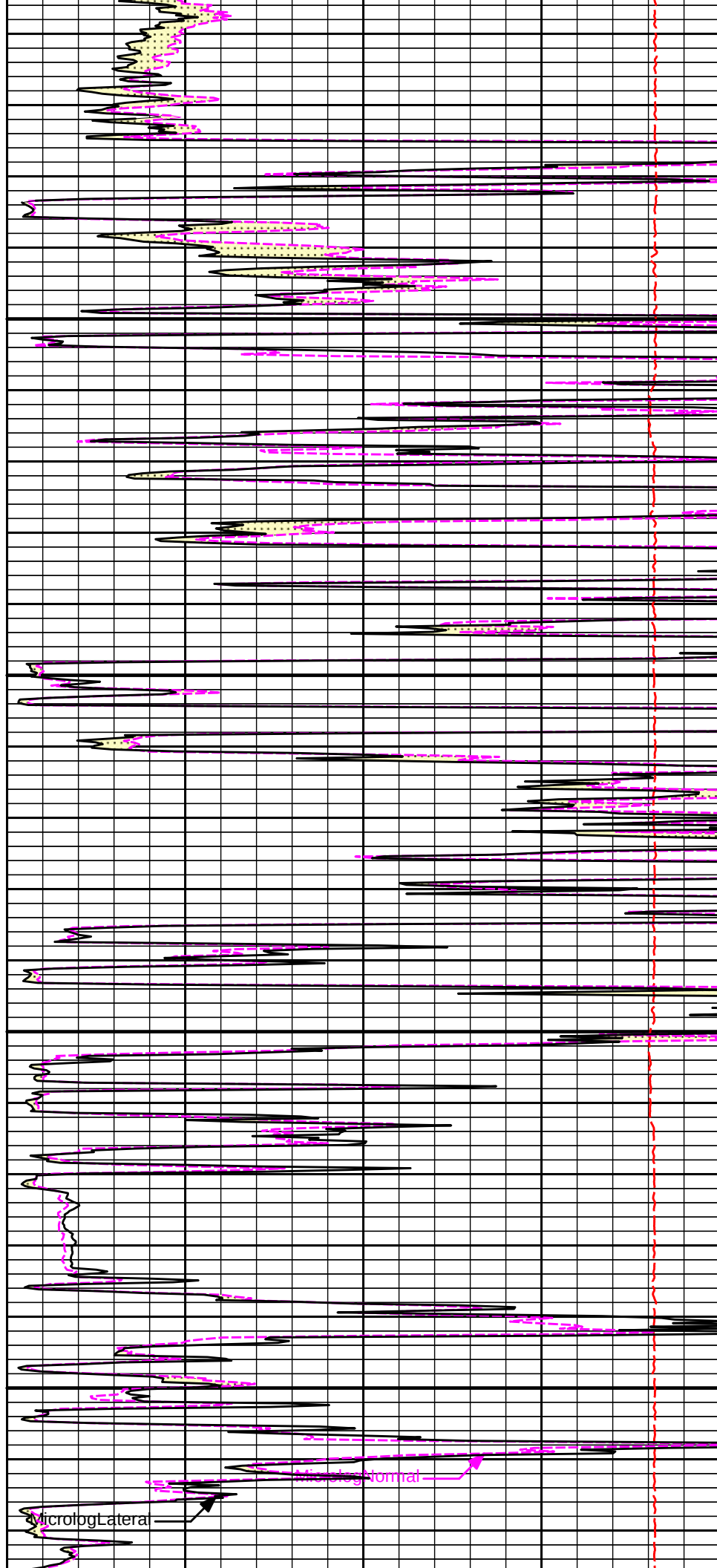
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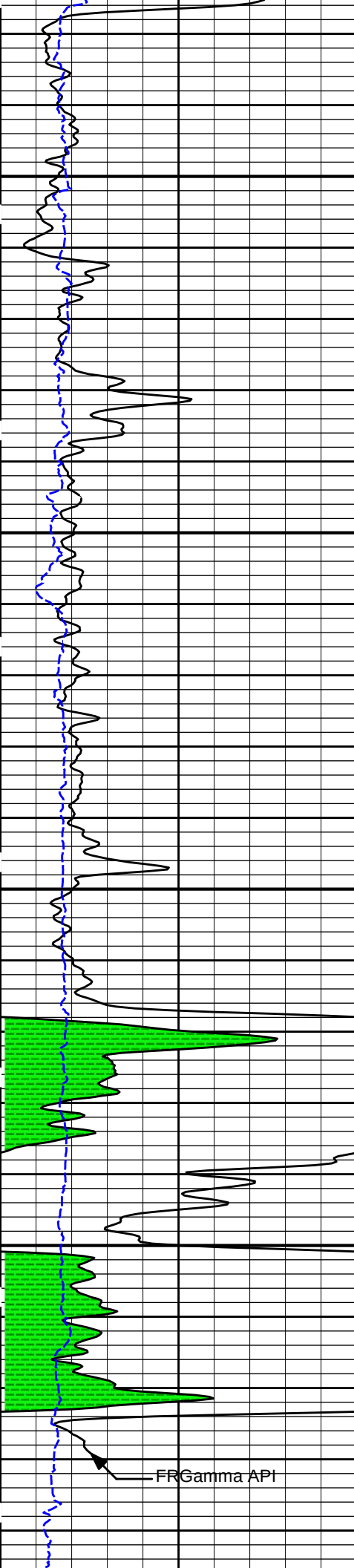




3700

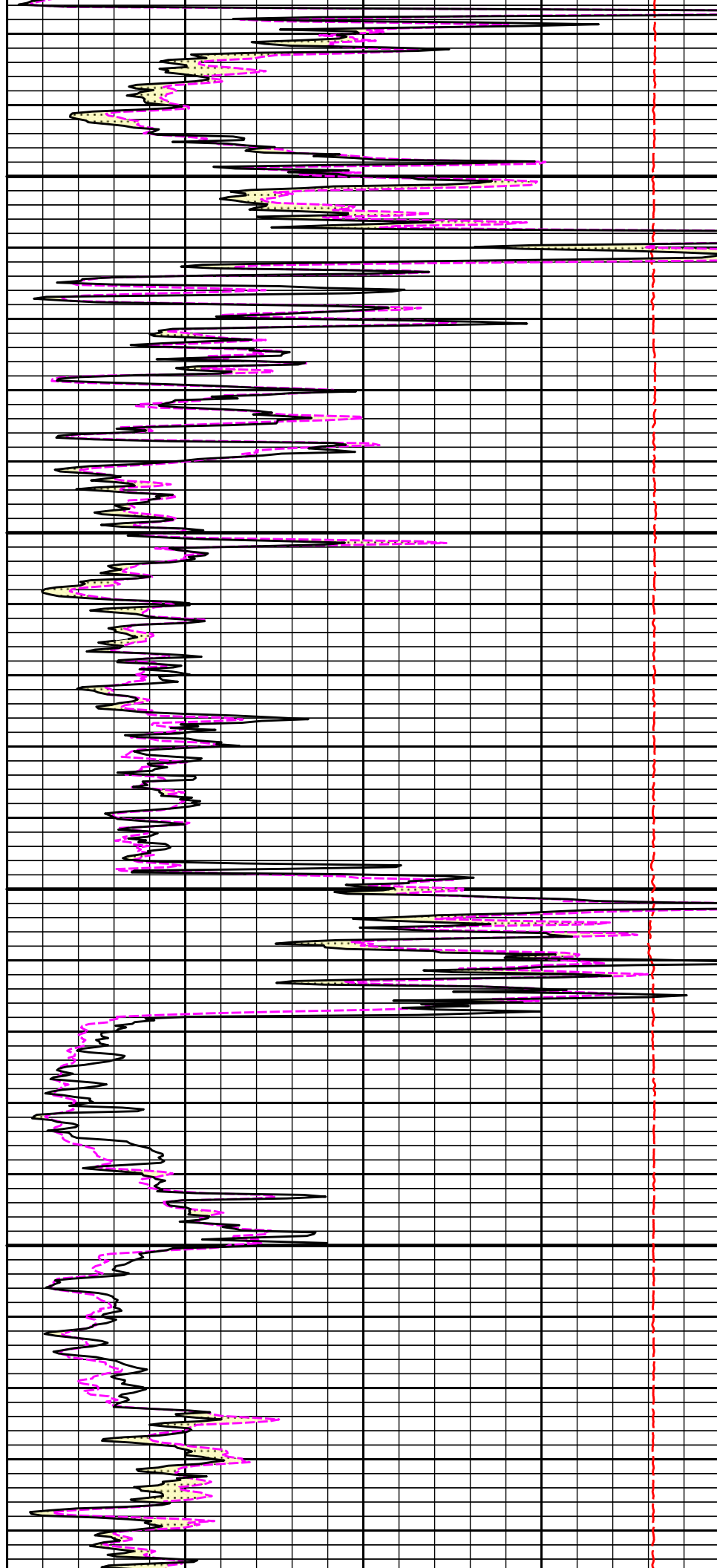
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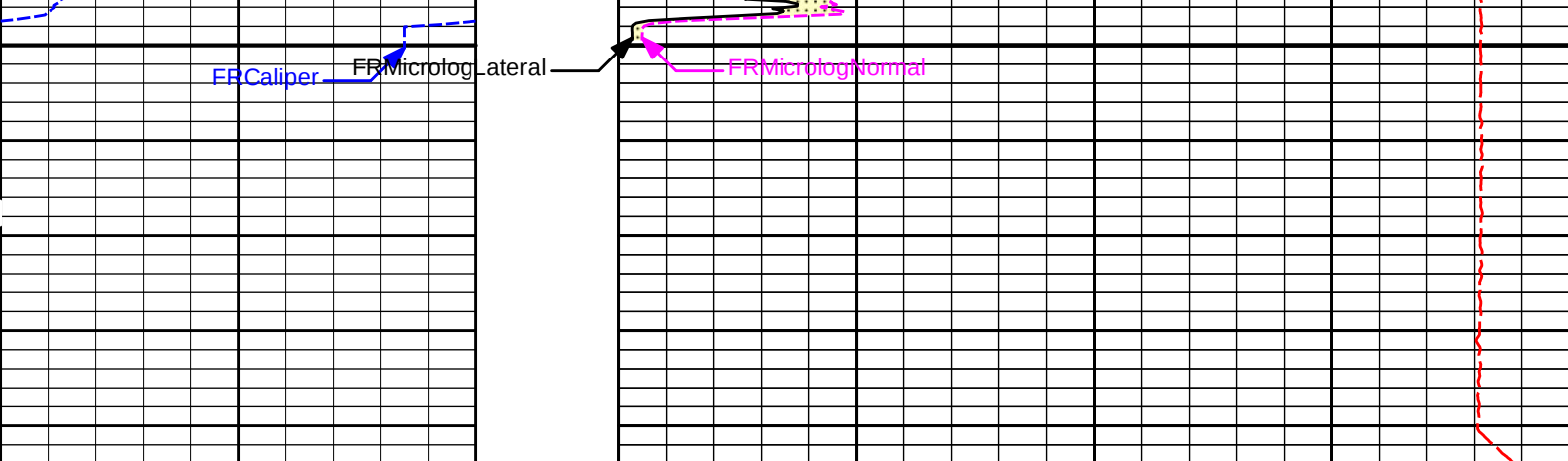




3900

4000





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: 03-Jul-14 19:11:11
Plot Range: 3000 ft to 4094 ft
Data: HEYEN_1-2\Well Based\DETAIL_BOTTOM\
Plot File: \\-LOCAL-\\HEYEN_1-2\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BN\MICRO\Microlog_IQ_5_main_lib

5 INCH MAIN LOG

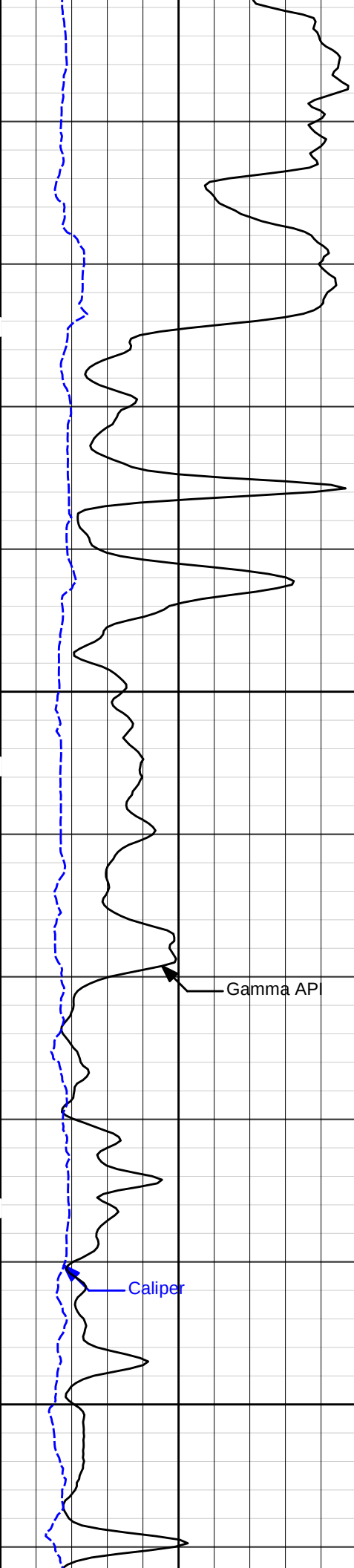
MEASURED DEPTH
MAIN LOG 5" PER 100'

HALLIBURTON

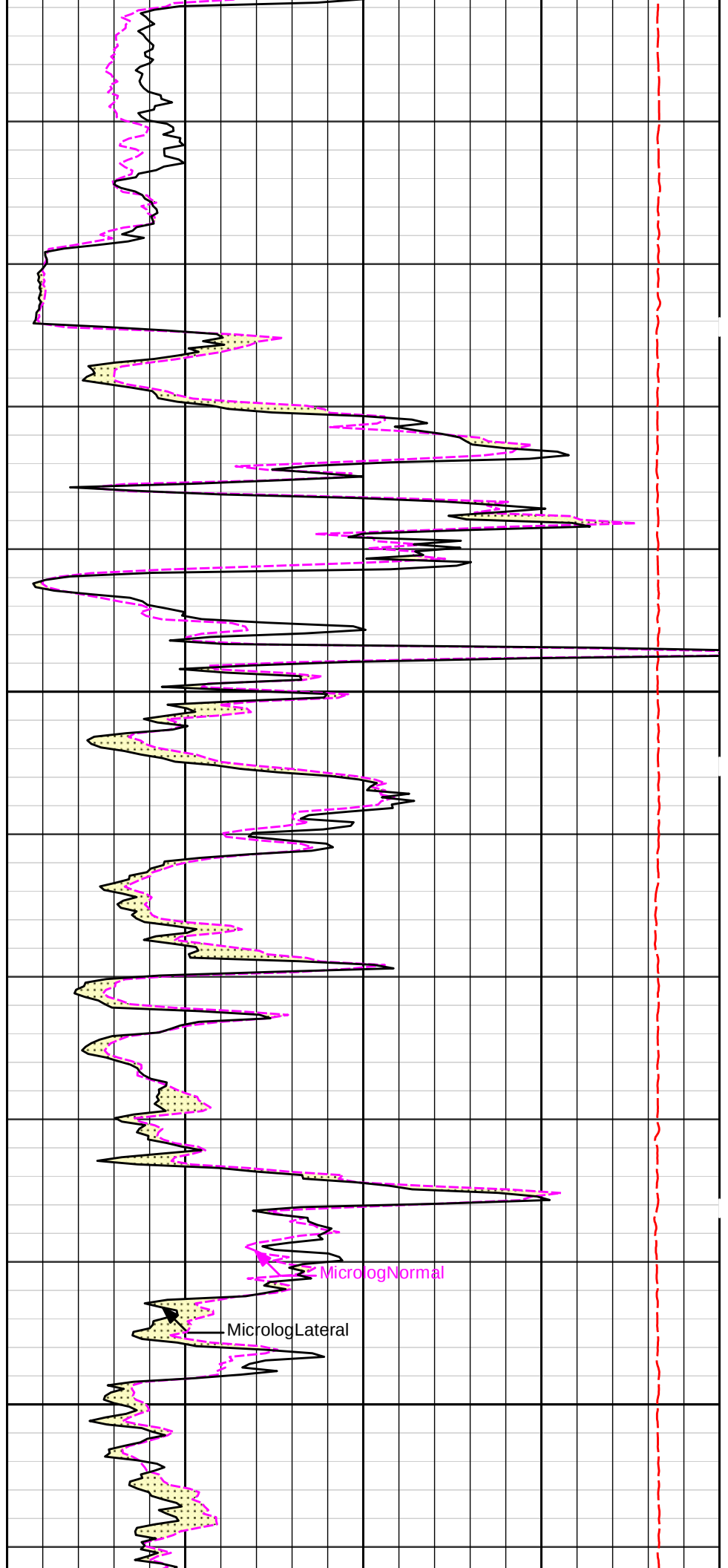
Plot Time: 03-Jul-14 19:11:11
Plot Range: 3000 ft to 4094 ft
Data: HEYEN_1-2\Well Based\DETAIL_BOTTOM\
Plot File: \\-LOCAL-\\HEYEN_1-2\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BN\MICRO\Microlog_IQ_10_main_lib

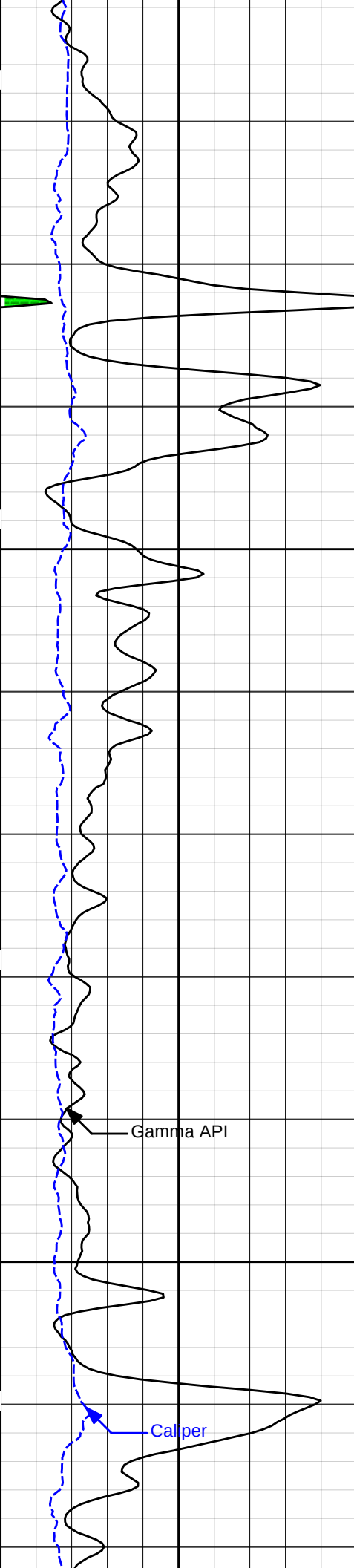
10 INCH MAIN LOG

			PERMEABLE		
				0	
SHALE				MicrologNormal	
				ohm-metre	
0	Gamma API	150		0	
				MicrologLateral	
				ohm-metre	
6	Caliper	16	MD 1 : 120 ft	15K	
				Tension	
				pounds	

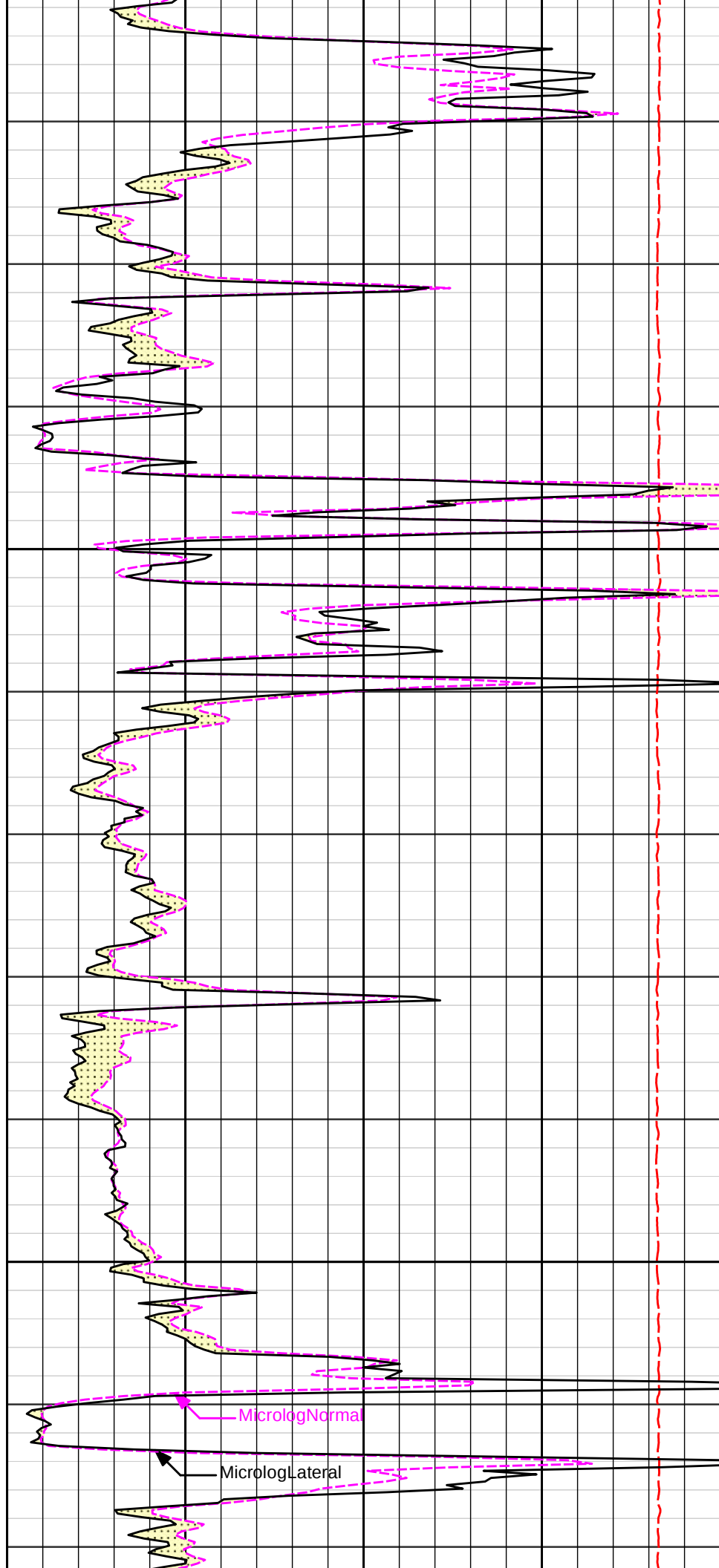


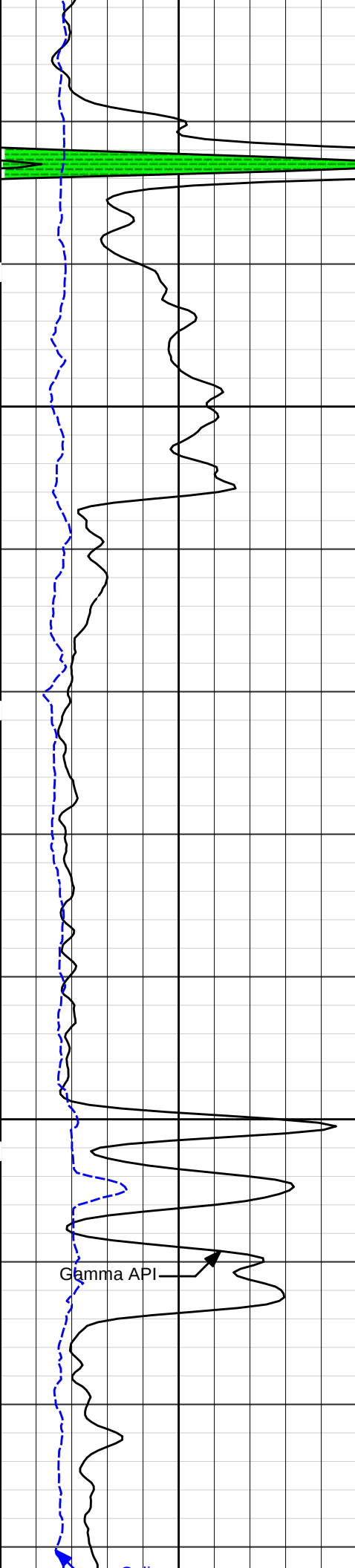
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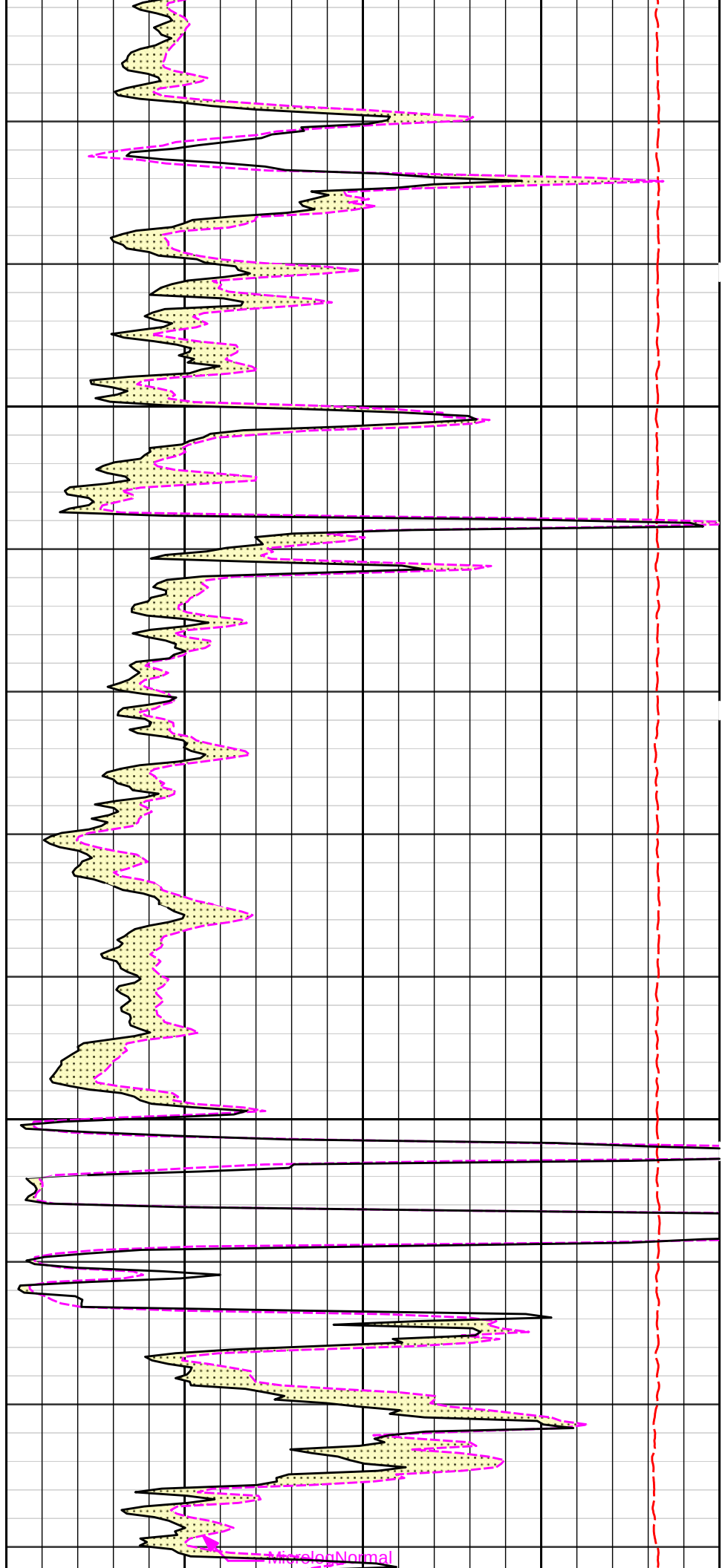


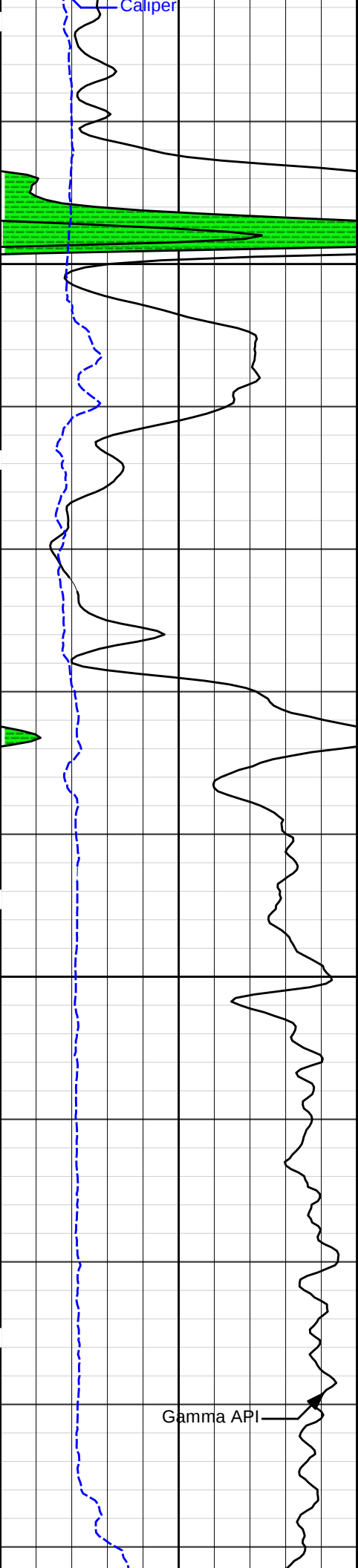
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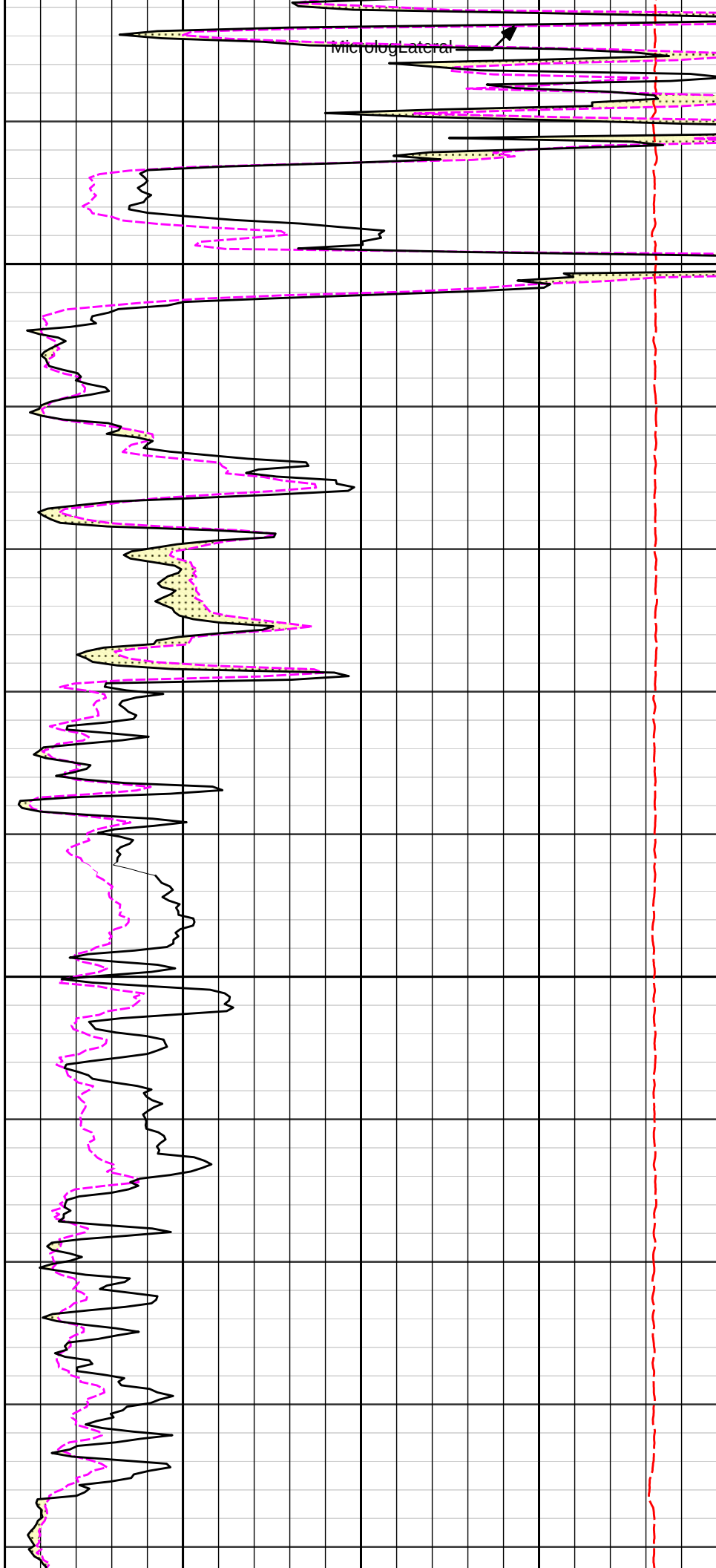


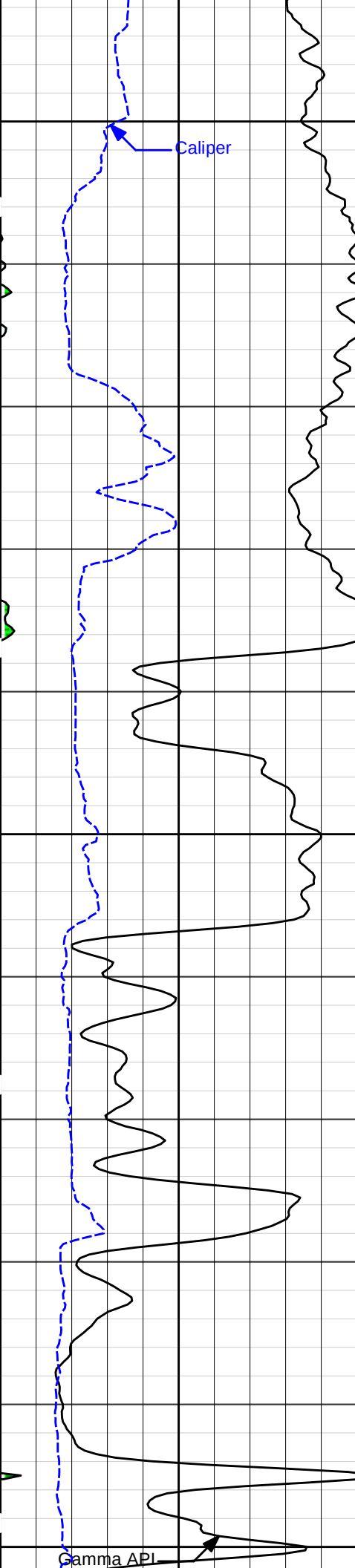
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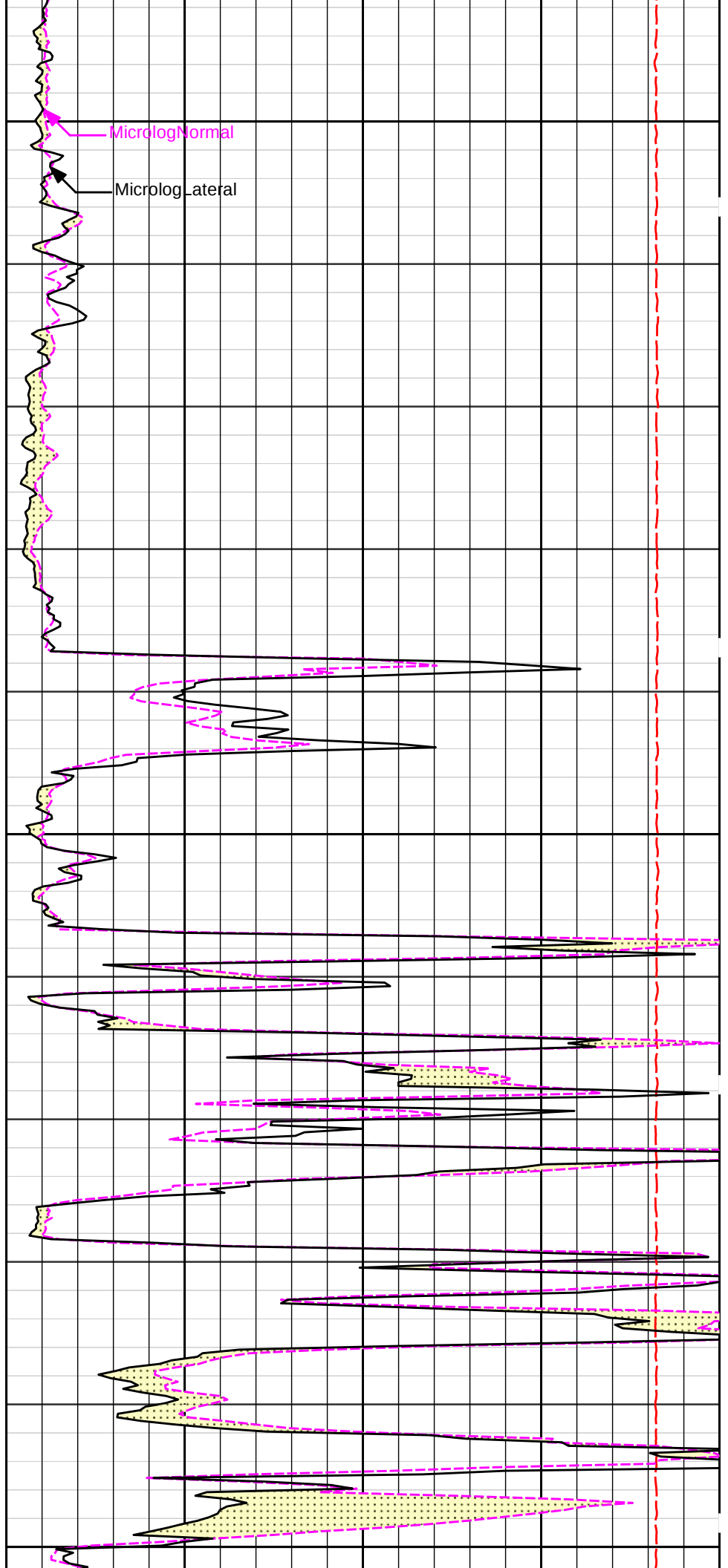


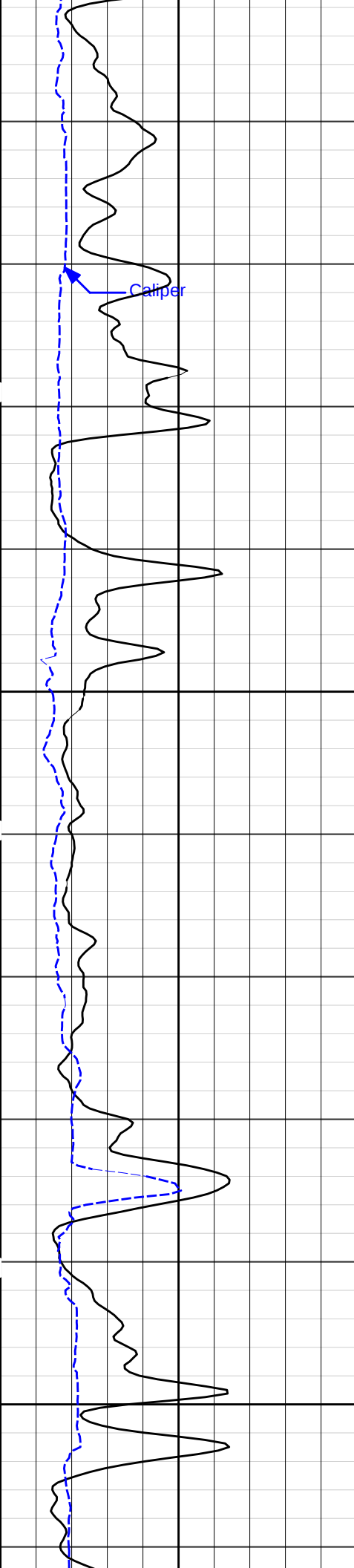
3400



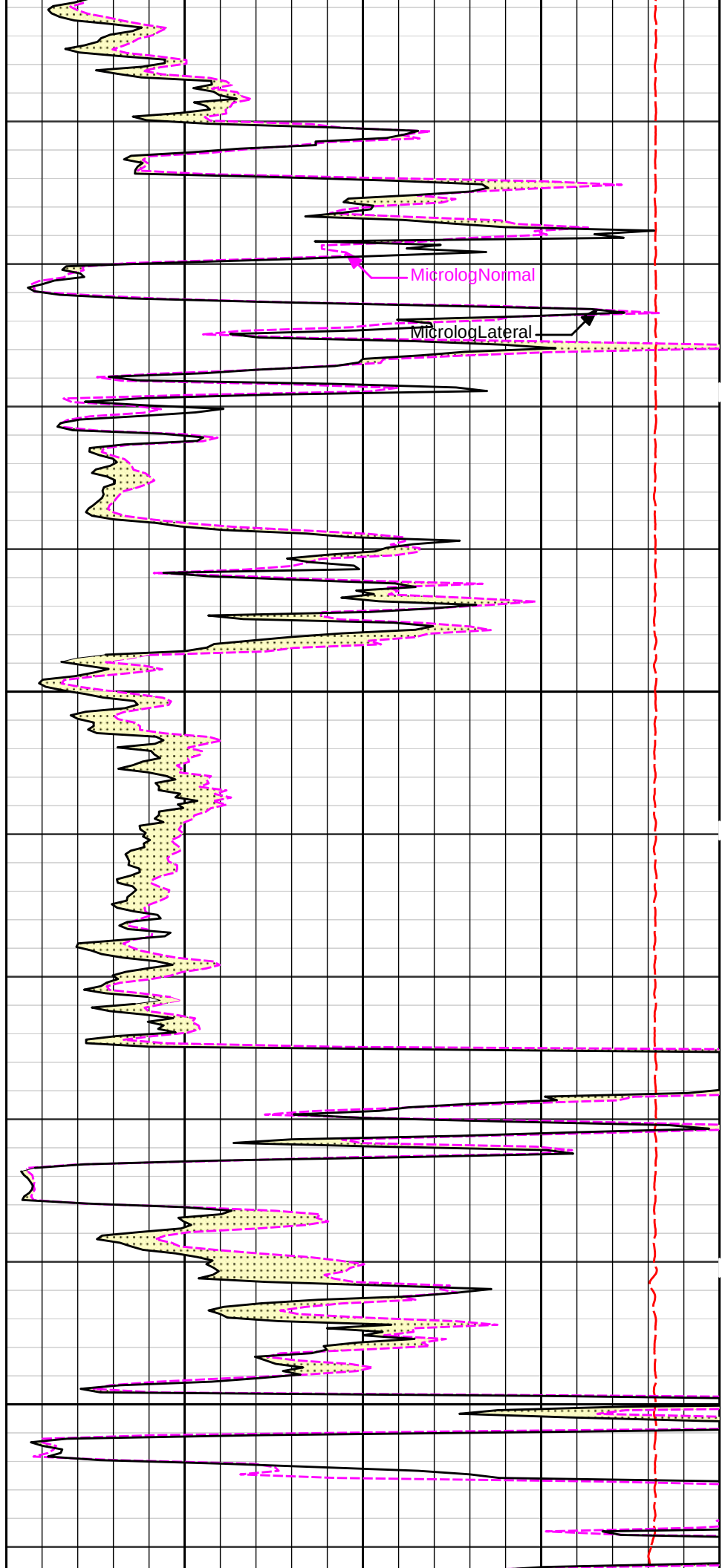


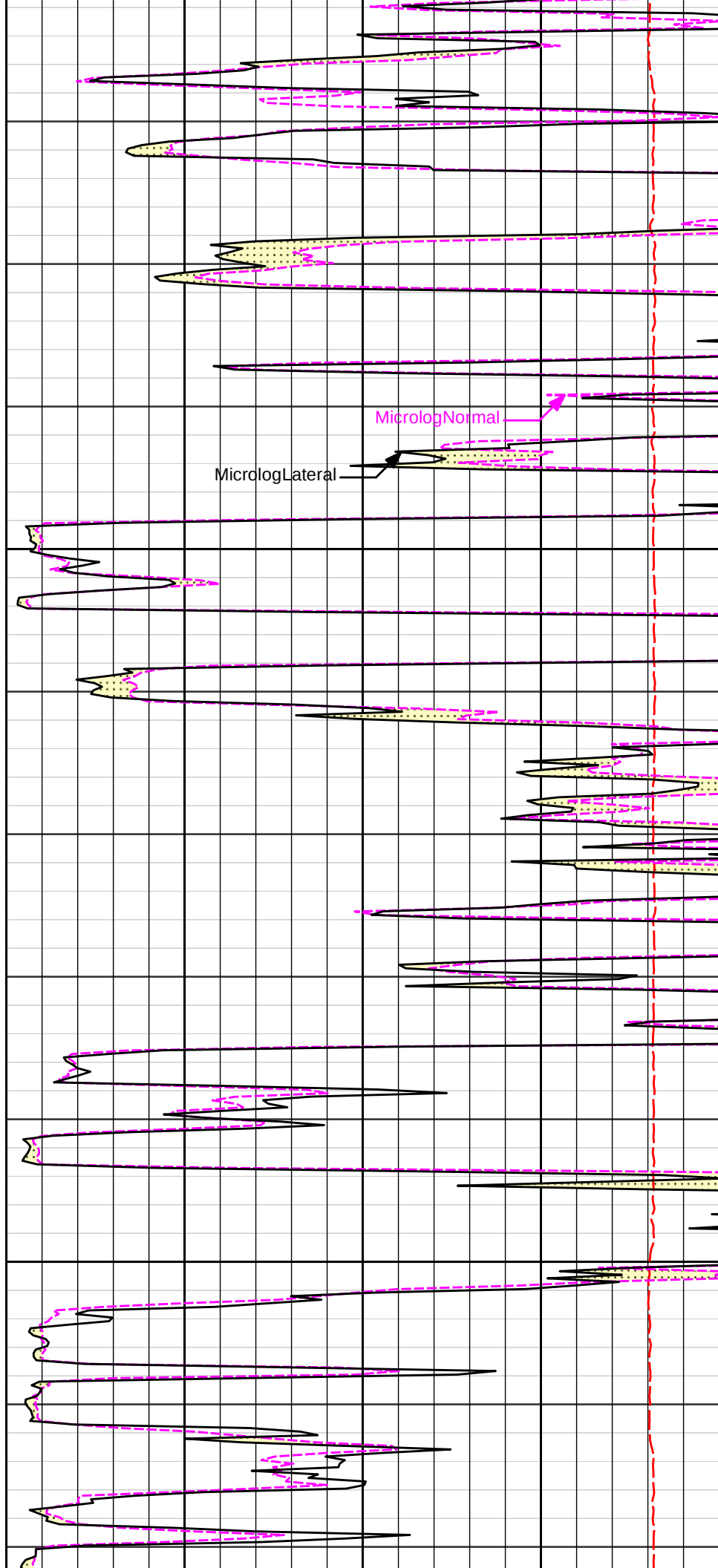
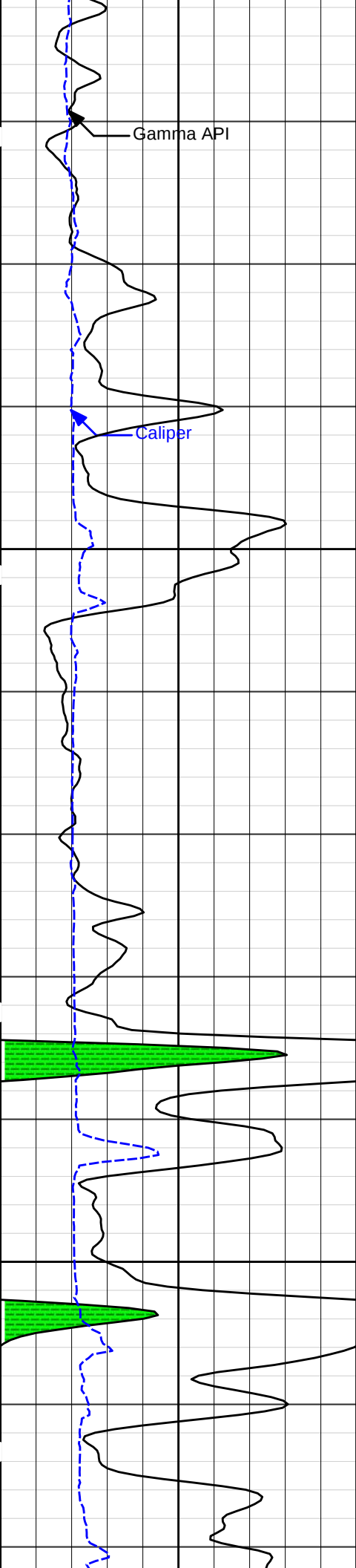
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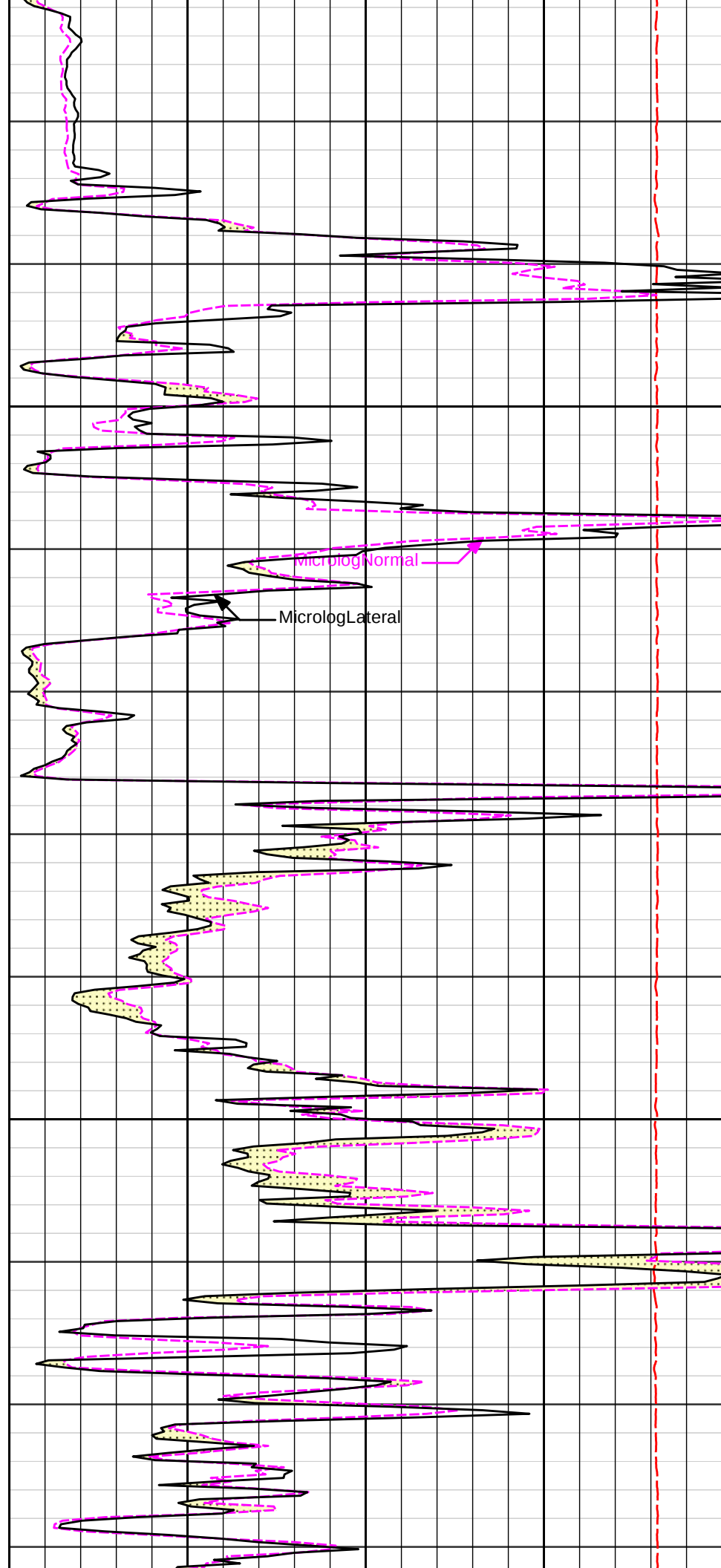
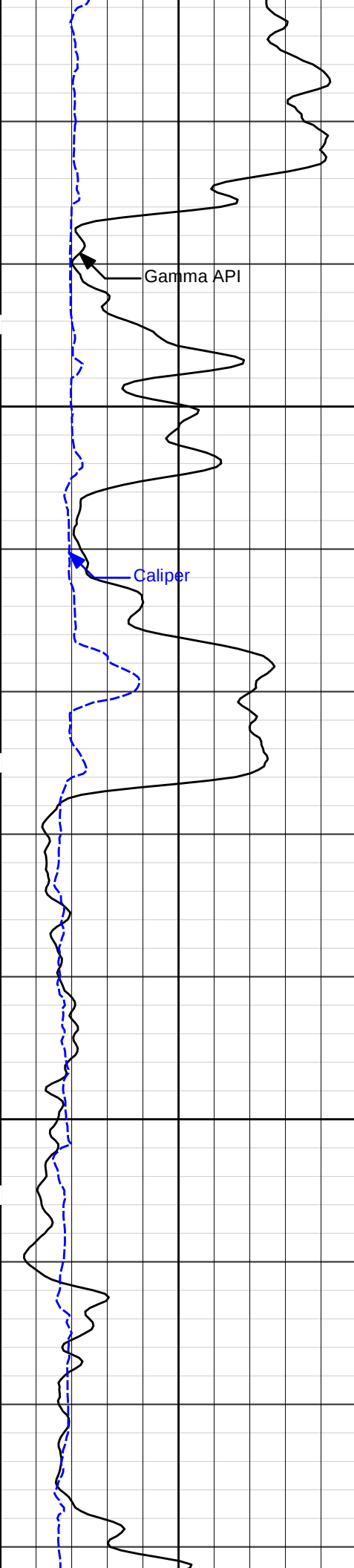


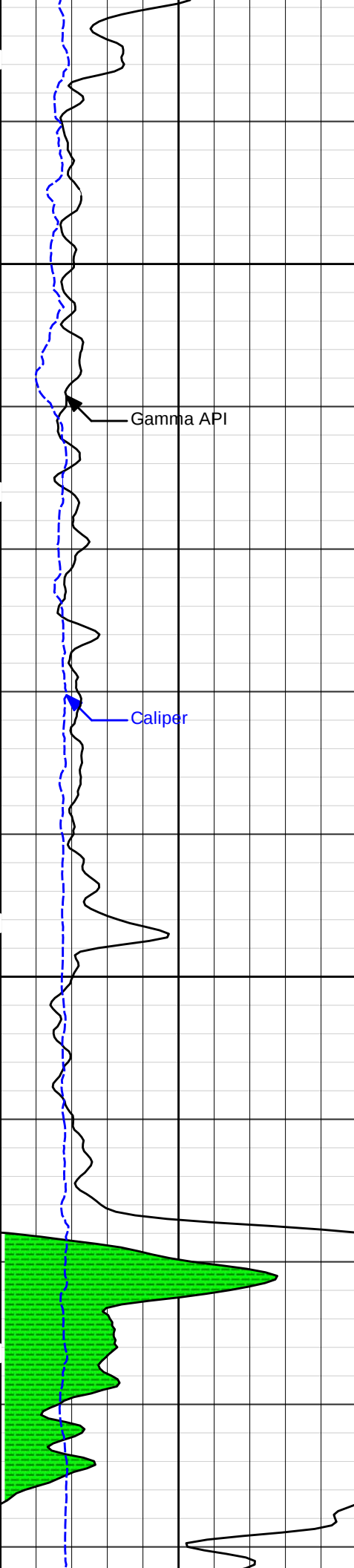


3600

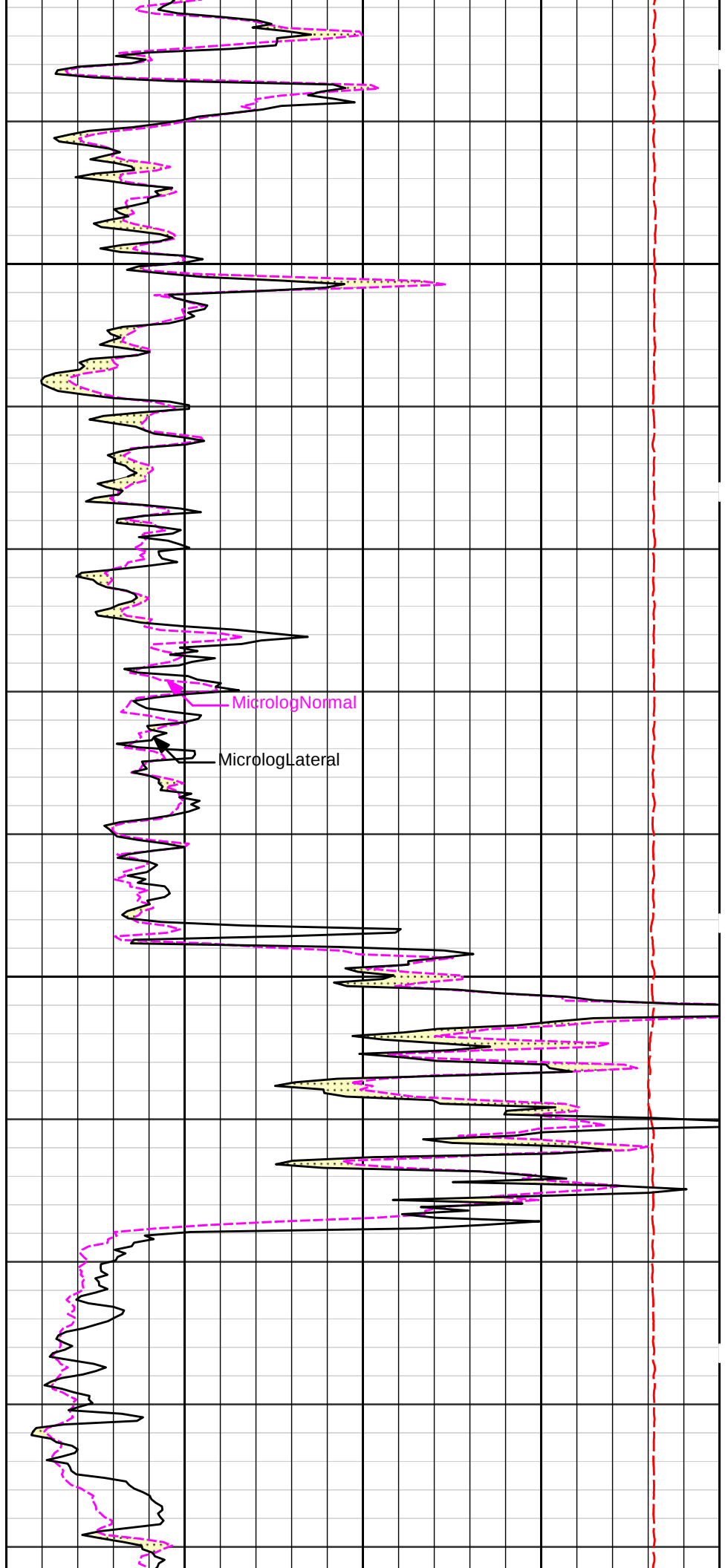


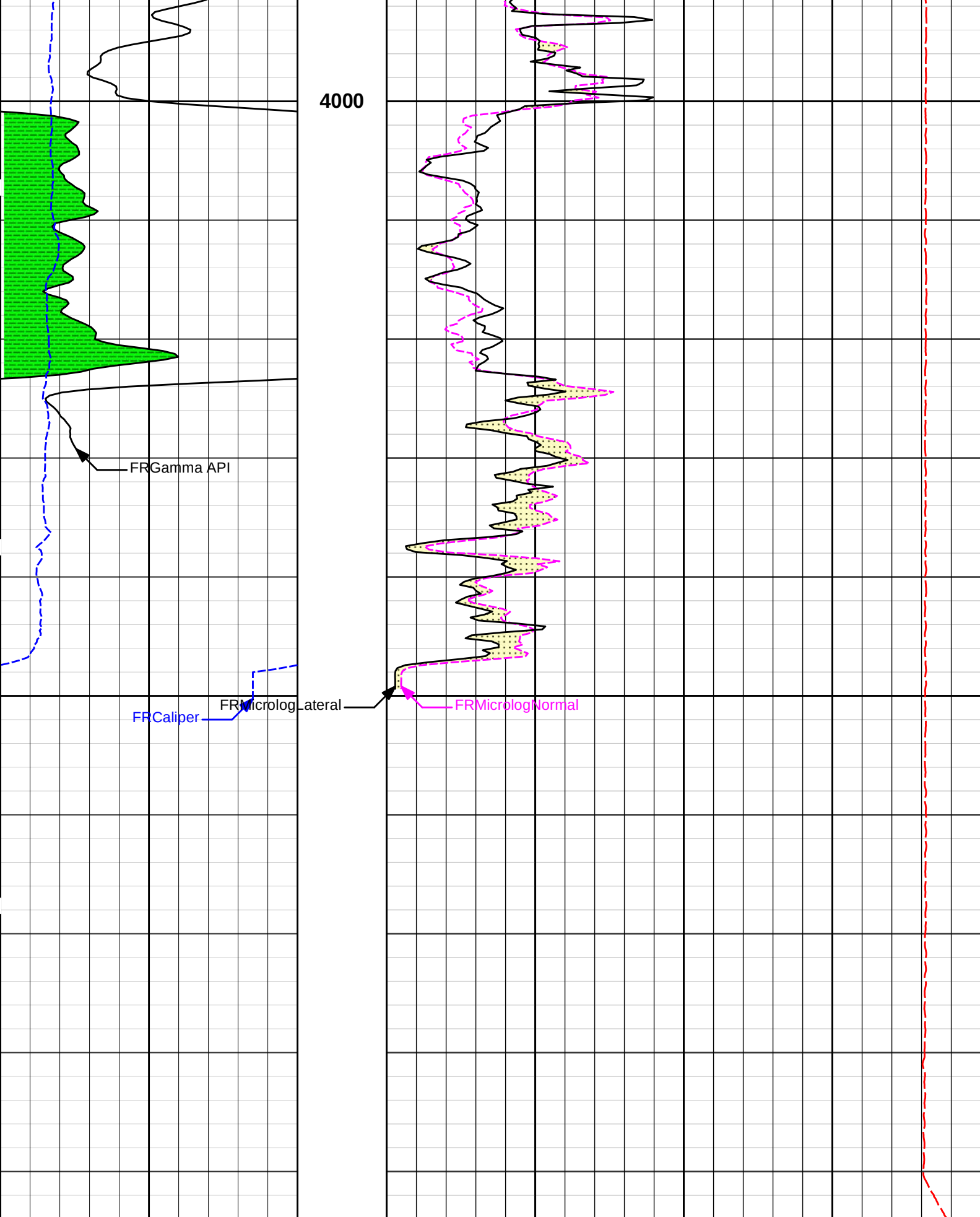






3900





6 Caliper inches 16	MD 1 : 120 ft	15K	Tension pounds 0
0 Gamma API 150		0 MicrologLateral	20

api	ohm-metre
SHALE	MicrologNormal
	ohm-metre
	PERMEABLE

HALLIBURTON

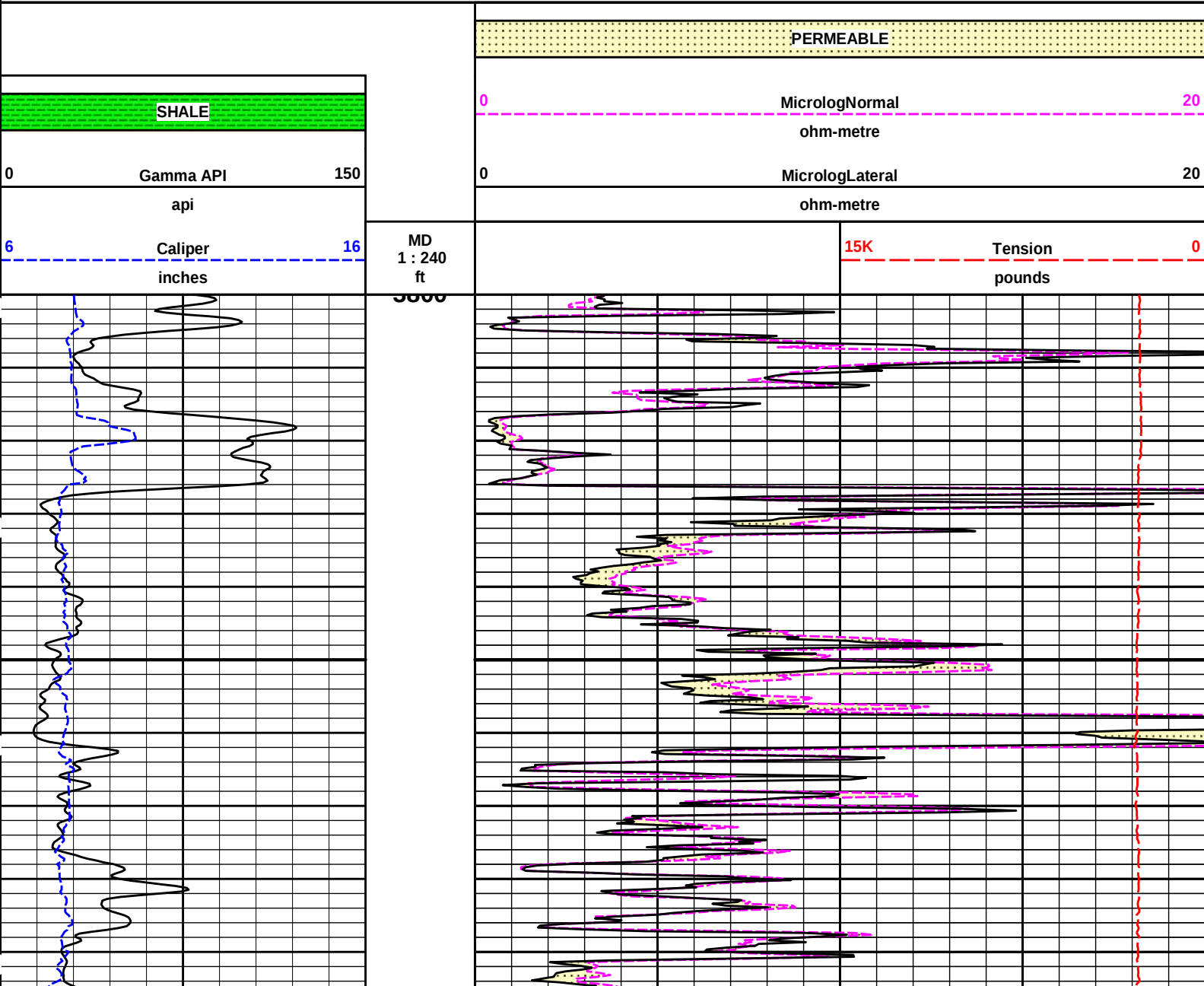
Plot Time: 03-Jul-14 19:11:13
Plot Range: 3000 ft to 4094 ft
Data: HEYEN_1-2\Well Based\DETAIL_BOTTOM\
Plot File: \\LOCAL\HEYEN_1-2\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BN\MICRO\Microlog_IQ_10_main.lib

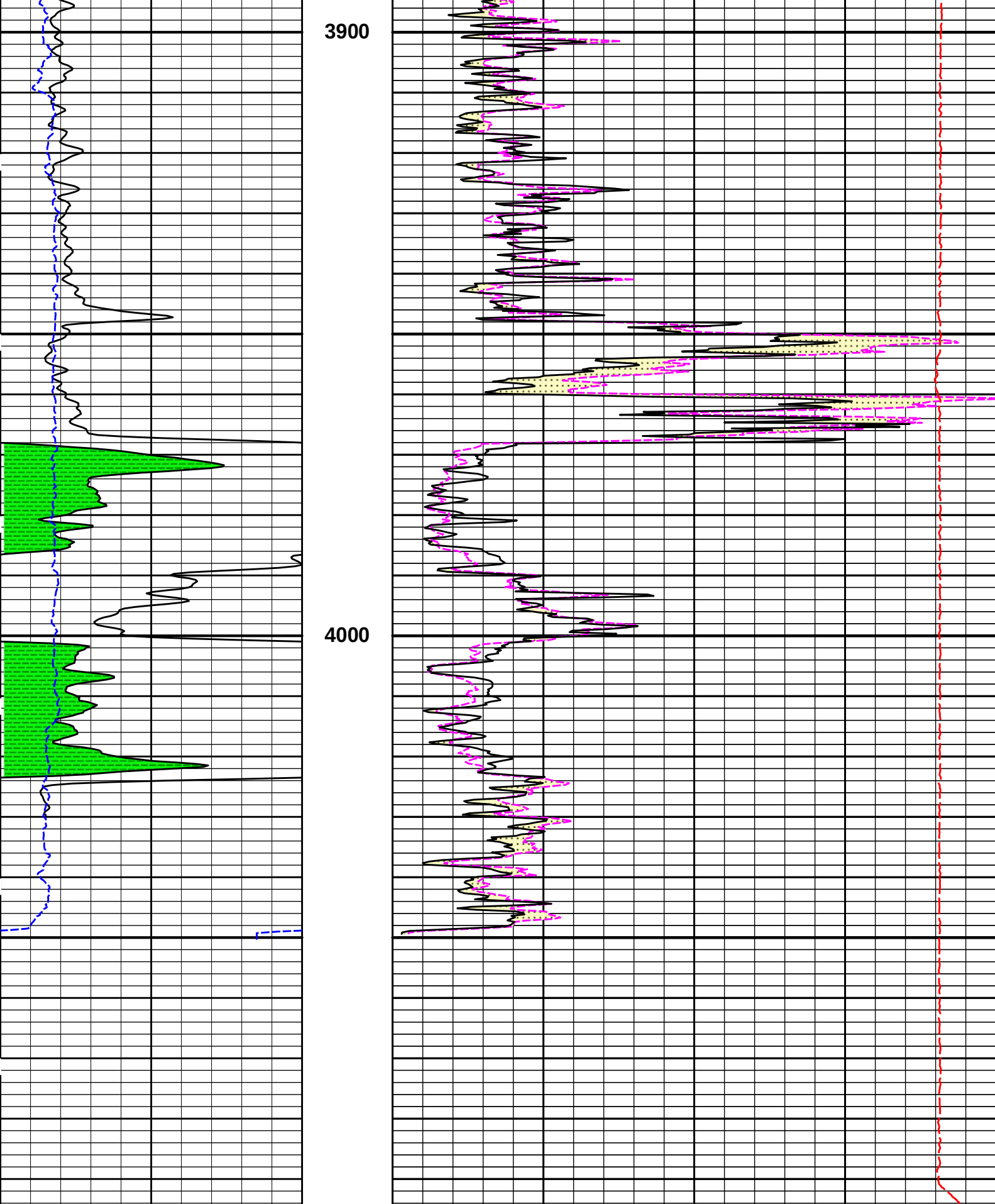
10 INCH MAIN LOG

HALLIBURTON

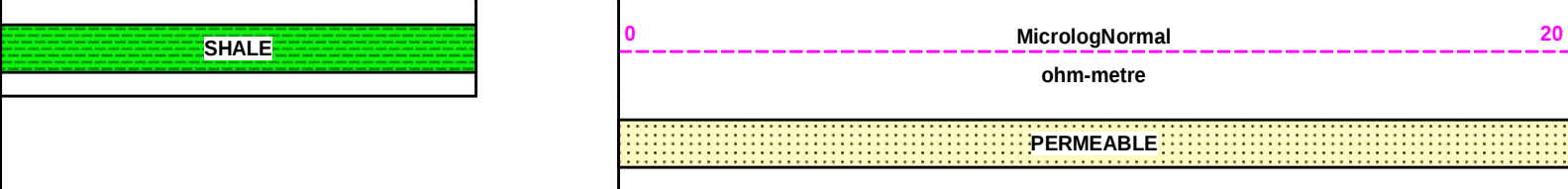
Plot Time: 03-Jul-14 19:11:13
Plot Range: 3800 ft to 4094.5 ft
Data: HEYEN_1-2\Well Based\REPEAT\
Plot File: \\LOCAL\HEYEN_1-2\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BN\MICRO\Microlog_IQ_5_rep.lib

REPEAT SECTION





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



HALLIBURTON

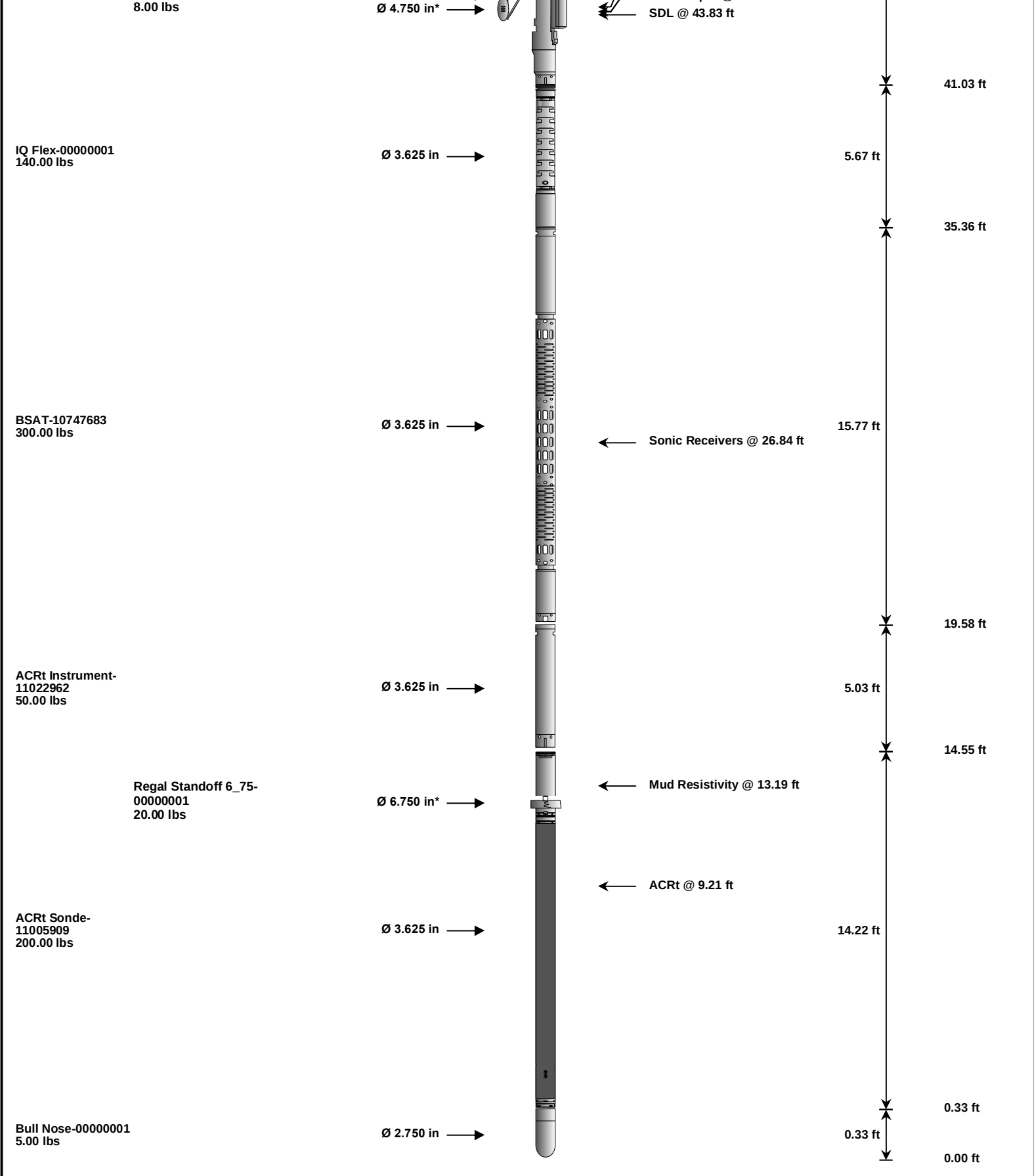
Plot Time: 03-Jul-14 19:11:14
Plot Range: 3800 ft to 4094.5 ft
Data: HEYEN_1-2\Well Based\REPEAT\
Plot File: \\LOCAL-I\HEYEN_1-2\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BN\MICROMicrolog_IQ_5_rep_lib

REPEAT SECTION

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
						80.04 ft
RWCH-12156658 135.00 lbs		Ø 3.625 in →		← Load Cell @ 76.35 ft ← BH Temperature @ 75.79 ft	6.25 ft	
SP Sub-12345678 60.00 lbs		Ø 3.625 in →		← SP @ 72.01 ft	3.74 ft	73.79 ft
GTET-11048627 165.00 lbs		Ø 3.625 in →		← GammaRay @ 63.99 ft	8.52 ft	70.05 ft
DSNT-11055304 174.00 lbs		Ø 3.625 in →		← DSN Far @ 54.59 ft ← DSN Near @ 53.84 ft	9.69 ft	61.53 ft
SDLT-11014296 360.00 lbs	SDLT Pad-10865884 65.00 lbs Microlog Pad-11014296	Ø 4.500 in → Ø 4.750 in* →		Microlog @ 44.03 ft SDL Caliper @ 43.84 ft	10.81 ft	51.84 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	73.79	300.00
SP		SP Sub	12345678	60.00	3.74	70.05	300.00
GTET		Gamma Telemetry Tool	11048627	165.00	8.52	61.53	60.00
DSNT		Dual Spaced Neutron	11055304	174.00	9.69	51.84	60.00
SDLT		Spectral Density Tool	11014296	360.00	10.81	41.03	60.00
SDLP		Density Insite Pad	10865884	65.00	2.55	43.24	60.00
MICP		Microlog Pad	11014296	8.00	1.00	43.53	60.00
IOF		IQ Flex tool	00000001	140.00	5.67	35.36	300.00

BSAT	Borehole Sonic Array Tool	10747683	300.00	15.77	19.58	60.00
ACRt	Array Compensated True Resistivity Instrument Section	11022962	50.00	5.03	14.55	120.00
ACRt	Array Compensated True Resistivity Sonde Section	11005909	200.00	14.22	0.33	120.00
RSOF	Regal Standoff 6.75in	00000001	20.00	0.52 *	12.25	300.00
BLNS	Bull Nose	00000001	5.00	0.33	0.00	300.00
Total			1,682.00	80.04		
* Not included in Total Length and Length Accumulation.						
Data: HEYEN_1-2\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BN\IDLE					Date: 03-Jul-14 16:44:54	



CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION			
Tool Name:	GTET - 11048627	Reference Calibration Date:	29-May-14 11:12:28
Engineer:	J. BOLLLOM	Calibration Date:	03-Jul-14 08:43:55
Software Version:	WL INSITE R4.2.0 (Build 2)	Calibration Version:	1

Calibrator Source S/N: Error			
Calibrator API Reference:265.00 api			
Equivalent Calibrator API Reference:269.6 api			
Measurement	Measured	Calibrated	Units
Background	50.2	49.9	api
Background + Calibrator	321.5	319.5	api
Calibrator	271.3	269.6	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION			
Tool Name:	GTET - 11048627	Reference Calibration Date:	03-Jul-14 08:43:55
Engineer:	J. BOLLLOM	Calibration Date:	03-Jul-14 09:10:12
Software Version:	WL INSITE R4.2.0 (Build 2)	Calibration Version:	1

Calibrator Source S/N: Error			
Calibrator API Reference:265.00 api			
Equivalent Calibrator API Reference:269.6 api			
Field Verification	Shop	Field	Units
Background	49.9	49.5	api
Background + Calibrator	319.5	316.3	api
Calibrator	269.6	266.8	api
Shop	Field	Difference	Tolerance
269.6	266.8	2.8	+/- 9.00

MICRO LOG SHOP CALIBRATION			
Tool Name:	Microlog Pad - 11014296	Reference Calibration Date:	19-May-14 11:48:34
Engineer:	THOMAS HYDE	Calibration Date:	13-Jun-14 09:34:05
Software Version:	WL INSITE R4.2.0 (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	-0.03	-0.01	-0.03	ohmm
Calibration Point #1	-0.04	0.00	0.02	0.00	ohmm

Calibration Point #2	19.96	20.00	19.97	20.00	ohmm
Internal Reference	19.90	19.94	19.95	19.99	ohmm
Measurement	Micro Log Normal Tool Value		Micro Log Lateral Tool Value		Units
Tool Zero	-0.05		0.33		V
Calibration Point #1	6.89		10.46		V
Calibration Point #2	5290.85		6875.00		V
Internal Reference	5274.53		6869.96		V

MICRO LOG FIELD CHECK					
Tool Name:	Microlog Pad - 11014296			Reference Calibration Date:	13-Jun-14 09:34:05
Engineer:	J. BOLLUM			Calibration Date:	03-Jul-14 08:41:16
Software Version:	WL INSITE R4.2.0 (Build 2)			Calibration Version:	1

	Measurement	Micro Log Normal		Micro Log Lateral		Units
		Shop	Field	Shop	Field	
	Tool Zero	-0.03	-0.02	-0.03	-0.03	ohmm
	Internal Reference	19.94	19.91	19.99	19.95	ohmm
Summary						
	Signal	Shop	Field	Difference		Tolerance
	Microlog Normal	19.94	19.91	0.03		+/- 0.80
	Microlog Lateral	19.99	19.95	0.04		+/- 0.80

CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11048627						
Gamma Ray Calibrator	269.6	266.8	-----	2.8	+/- 9.00	api
Microlog Pad-11014296						
MicroLog Normal	19.94	19.91	-----	0.03	+/-0.80	ohmm
MicroLog Lateral	19.99	19.95	-----	0.04	+/-0.80	ohmm
Data: HEYEN_1-210001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BNIDLE					Date: 03-Jul-14 16:49:08	

HALLIBURTON PARAMETERS REPORT						
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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	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	ST	Surface Temperature	73.0	degF
SHARED	TD	Total Well Depth	4090.00	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	
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?	Yes	
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?	Yes	
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?	Yes	
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	
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 Fluid	189.00	uspf
BSAT	DTMT	Delta -T Matrix Type	User define	
BSAT	DTMA	Delta -T Matrix	47.60	uspf
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 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	
BOTTOM_____				
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HALLIBURTON INPUTS, DELAYS AND FILTERS TABLE				
Mnemonic	Input Description	Delay (ft)	Filter Type	Filter Length (ft)
Depth Panel				
TENS	Tension	0.00	NO	
Rwa / CrossPlot				
TPUL	Tension Pull	80.04	NO	
BS	Bit Size	80.04	NO	
HDIA	Measured Hole Diameter	0.00	NO	
RWCH				
DHTN	DownholeTension	0.00	BLK	0.000
SP Sub				
PLTC	Plot Control Mask	72.01	NO	
SP	Spontaneous Potential	72.01	BLK	1.250
SPR	Raw Spontaneous Potential	72.01	NO	
SPO	Spontaneous Potential Offset	72.01	NO	
GTET				
TPUL	Tension Pull	63.99	NO	
GR	Natural Gamma Ray API	63.99	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	63.99	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	63.99	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	53.74	NO	
RNDS	Near Detector Telemetry Counts	53.84	BLK	1.417
RFDS	Far Detector Telemetry Counts	54.59	TRI	0.583
DNTT	DSN Tool Temperature	53.84	NO	
DSNS	DSN Tool Status	53.74	NO	
ERND	Near Detector Telemetry Counts EVR	53.84	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	54.59	BLK	0.000
ENTM	DSN Tool Temperature EVR	53.84	NO	
HDIA	Measured Hole Diameter	0.00	NO	
SDLT				
TPUL	Tension Pull	43.84	NO	

PCAL	Pad Caliper	43.84	TRI	0.250
ACAL	Arm Caliper	43.84	TRI	0.250
BSAT				
TPUL	Tension Pull	26.84	NO	
STAT	Status	26.84	NO	
DLYT	Delay Time	26.84	NO	
SI	Sample Interval	26.84	NO	
TXRX	Raw Telemetry 10 Receivers	26.84	NO	
FRMC	Tool Frame Count	26.84	NO	
GMOD	Gain processing mode	19.58	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
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 Real 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	43.83	NO	
NAB	Near Above	43.66	BLK	0.920
NHI	Near Cesium High	43.66	BLK	0.920
NLO	Near Cesium Low	43.66	BLK	0.920
NVA	Near Valley	43.66	BLK	0.920
NBA	Near Barite	43.66	BLK	0.920
NDE	Near Density	43.66	BLK	0.920
NPK	Near Peak	43.66	BLK	0.920
NLI	Near Lithology	43.66	BLK	0.920
NBAU	Near Barite Unfiltered	43.66	BLK	0.250
NLIU	Near Lithology Unfiltered	43.66	BLK	0.250
FAB	Far Above	44.01	BLK	0.250
FHI	Far Cesium High	44.01	BLK	0.250
FLO	Far Cesium Low	44.01	BLK	0.250
FVA	Far Valley	44.01	BLK	0.250
FBA	Far Barite	44.01	BLK	0.250
FDE	Far Density	44.01	BLK	0.250
FPK	Far Peak	44.01	BLK	0.250
FLI	Far Lithology	44.01	BLK	0.250
PTMP	Pad Temperature	43.84	BLK	0.920
NHV	Near Detector High Voltage	43.24	NO	
FHV	Far Detector High Voltage	43.24	NO	
ITMP	Instrument Temperature	43.24	NO	
DDHV	Detector High Voltage	43.24	NO	
HDIA	Measured Hole Diameter	0.00	NO	
Microlog Pad				
TPUL	Tension Pull	44.03	NO	
MINV	Microlog Lateral	44.03	BLK	0.750
MNOR	Microlog Normal	44.03	BLK	0.750
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COMPANY	HARTMAN OIL CO., INC.		
WELL	HEYEN #1-2		
FIELD	GRAY NORTH FIELD		
COUNTY	STAFFORD	STATE	KANSAS
HALLIBURTON		MICROLOG	

