

HERMAN L. LOEB, LLC KOGER #3 ALFORD KIOWA KANSAS										MICROLOG									
COMPANY					HERMAN L. LOEB, LLC					WELL					KOGER #3				
WELL					FIELD/BLOCK					ALFORD					COUNTY				
COUNTY					KIOWA					STATE					KANSAS				
Permanent Datum					G.L.					Location					API No. 15-097-21823-00-00				
Log measured from					KB					(SHL) 890' FNL & 1430' FEL NE SE NW NE					Other Services: DSNT/SDLT MICROLOG BSAT ACRT				
Drilling measured from					KB					11.0 ft above perm. Datum					Elev.: K.B. 2281.0 ft D.F. 2281.0 ft G.L. 2270.0 ft				
Date					15-Apr-16														
Run No.					ONE														
Depth - Driller					5357.00 ft														
Depth - Logger					5356.0 ft														
Bottom - Logged Interval					5334.00 ft														
Top - Logged Interval					3900.00 ft														
Casing - Driller					8.625 in					@ 660.0 ft									
Casing - Logger					660.0 ft														
Bit Size					7.875 in					@									
Type Fluid in Hole					Water Based Mud														
Density					9.3 ppg					62.00 s/qt									
PH					10.50 pH					4.6 cp/m									
Source of Sample					MUD PIT														
Rm @ Meas. Temperature					1.040 ohmm					@ 75.00 degF					@				
Rmf @ Meas. Temperature					0.89 ohmm					@ 75.00 degF					@				
Rmc @ Meas. Temperature					1.181 ohmm					@ 75.00 degF					@				
Source Rmf					MEAS					MEAS									
Rm @ BHT					0.65 ohmm					@ 124.0 degF					@				
Time Since Circulation					3.0000 hr														
Time on Bottom					15-Apr-16 02:45:00.000														
Max. Rec. Temperature					124.0 degF					@ 5356.0 ft					@				
Equipment					12156883					EL RENO									
Recorded By					JORGE ORLANDO PEREZ														
Witnessed By					JON CHRISTENSEN														

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Service Ticket No.: 903246317										API Serial No.: 15-097-21823-00-00										PGM Version: WL INSITE R4.6.3 (Build 5)									
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	1.5 S.O.	N/A															
Rmc @ Meas. Temp.		@		@							I-11055059																		
Source Rmf	Rmc										S-11038385																		
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.	11021139			Serial No.	11014316			Serial No.	10951315			Serial No.	11019641																
Model No.	GTET			Model No.	BSAT			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	CS137			Source Type	AM241BE																
Length	8"			LSA [Y/N]				Serial No.	5577GW			Serial No.	DSN-373																
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															

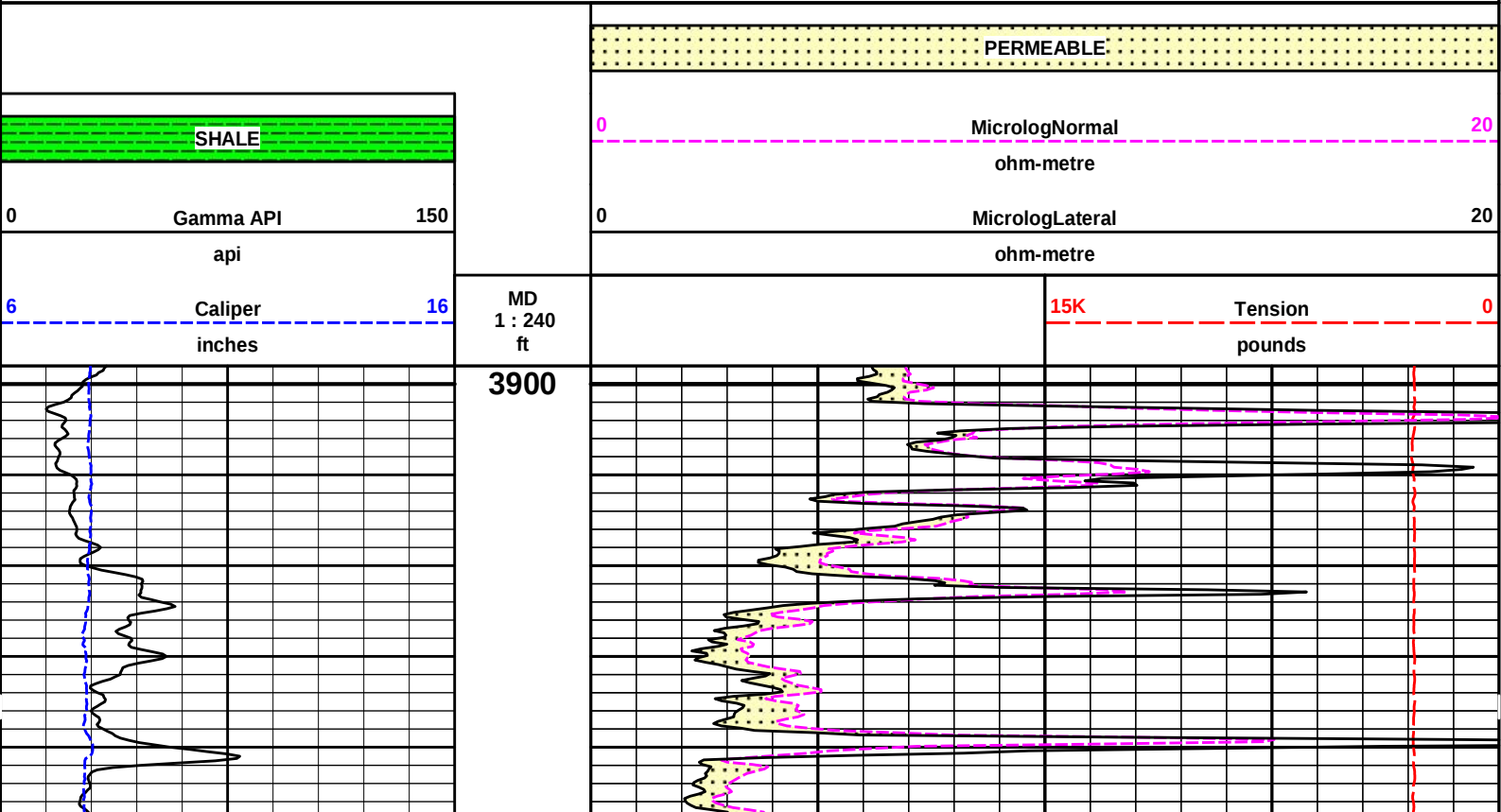
[illegible]

HALLIBURTON

Plot Time: 15-Apr-16 03:43:13
Plot Range: 3898 ft to 5359.42 ft
Data: KOGER_3\Well Based\DETAILS\
Plot File: \\LOCAL-I\KOGER_3\Well Based\MICROLOG\Microlog_IQ_5_main.lib

5 INCH MAIN LOG

MEASURED DEPTH
MAIN LOG 5" PER 100'



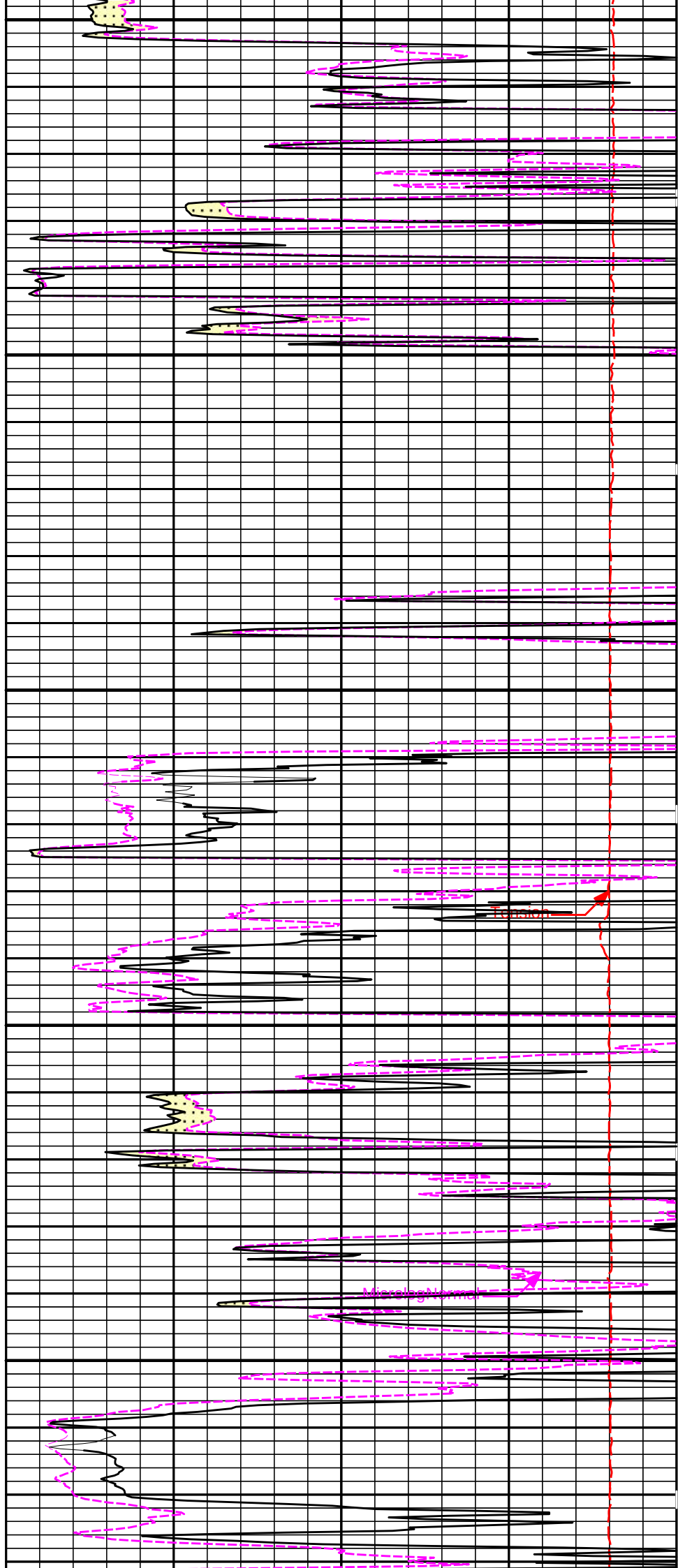


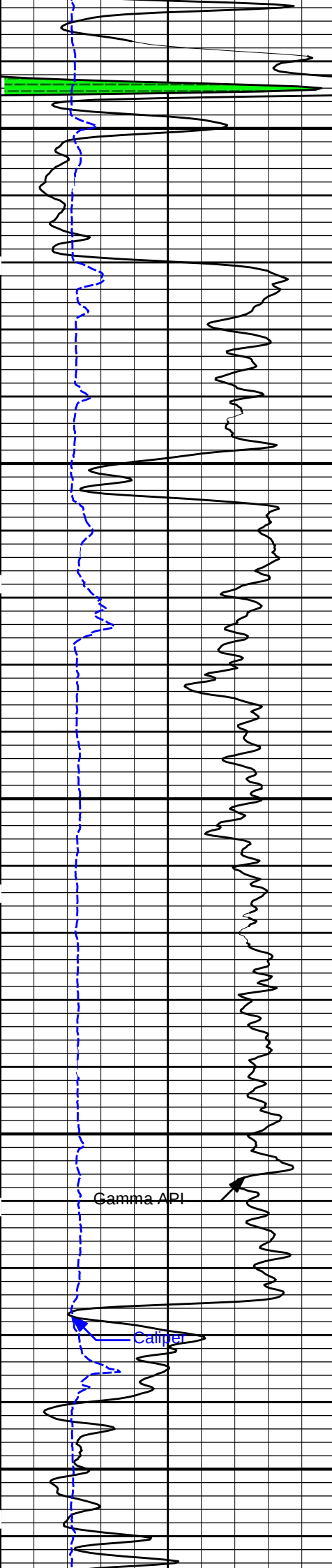
4000

4100

Gamma API

Caliper





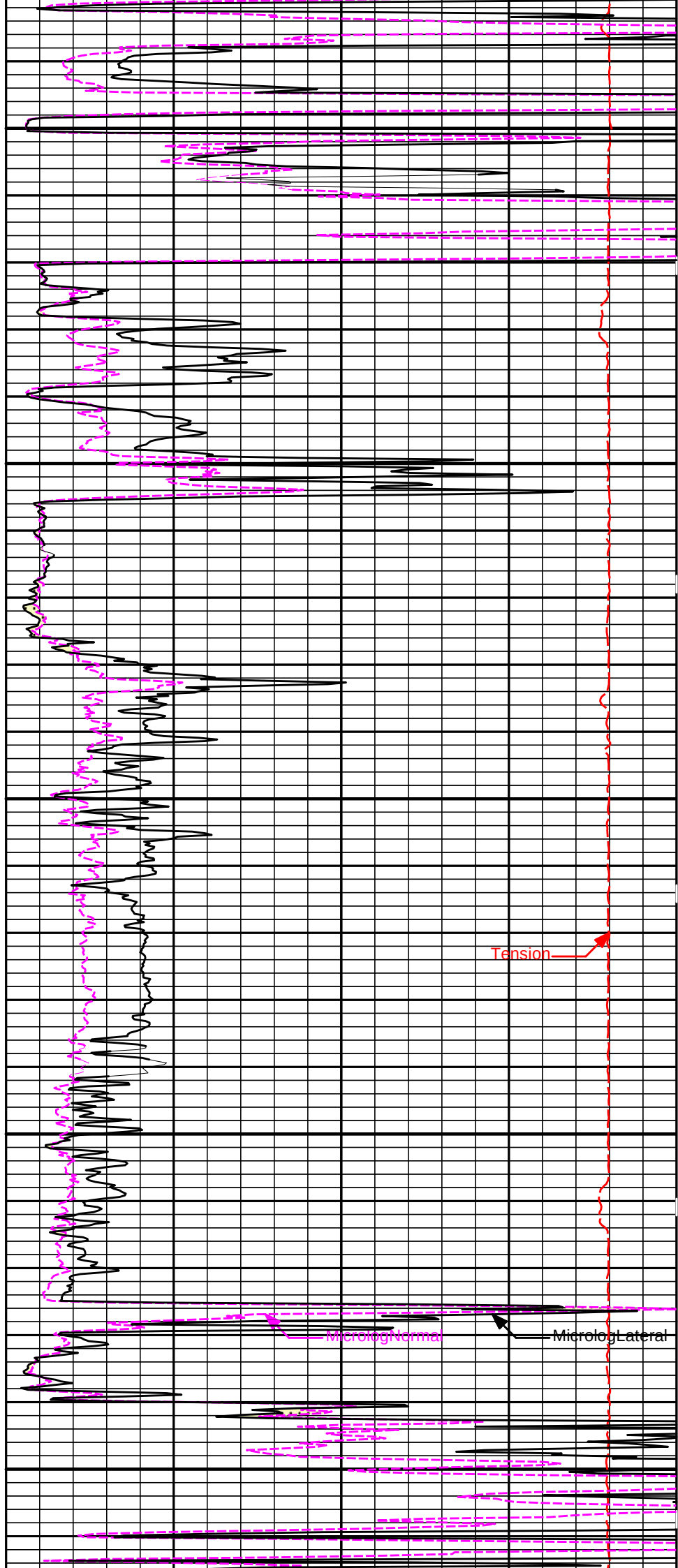
4200

4300

Gamma API

Caliper

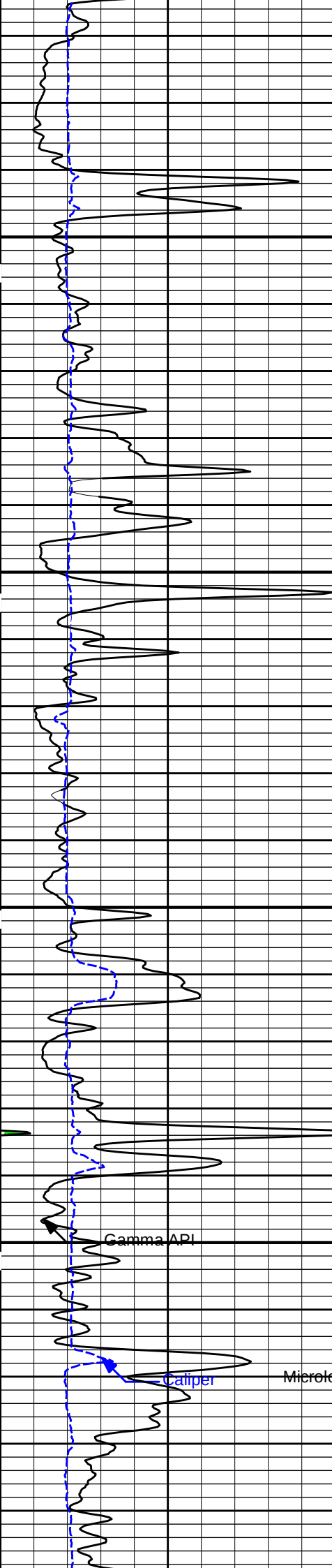
4400



Tension

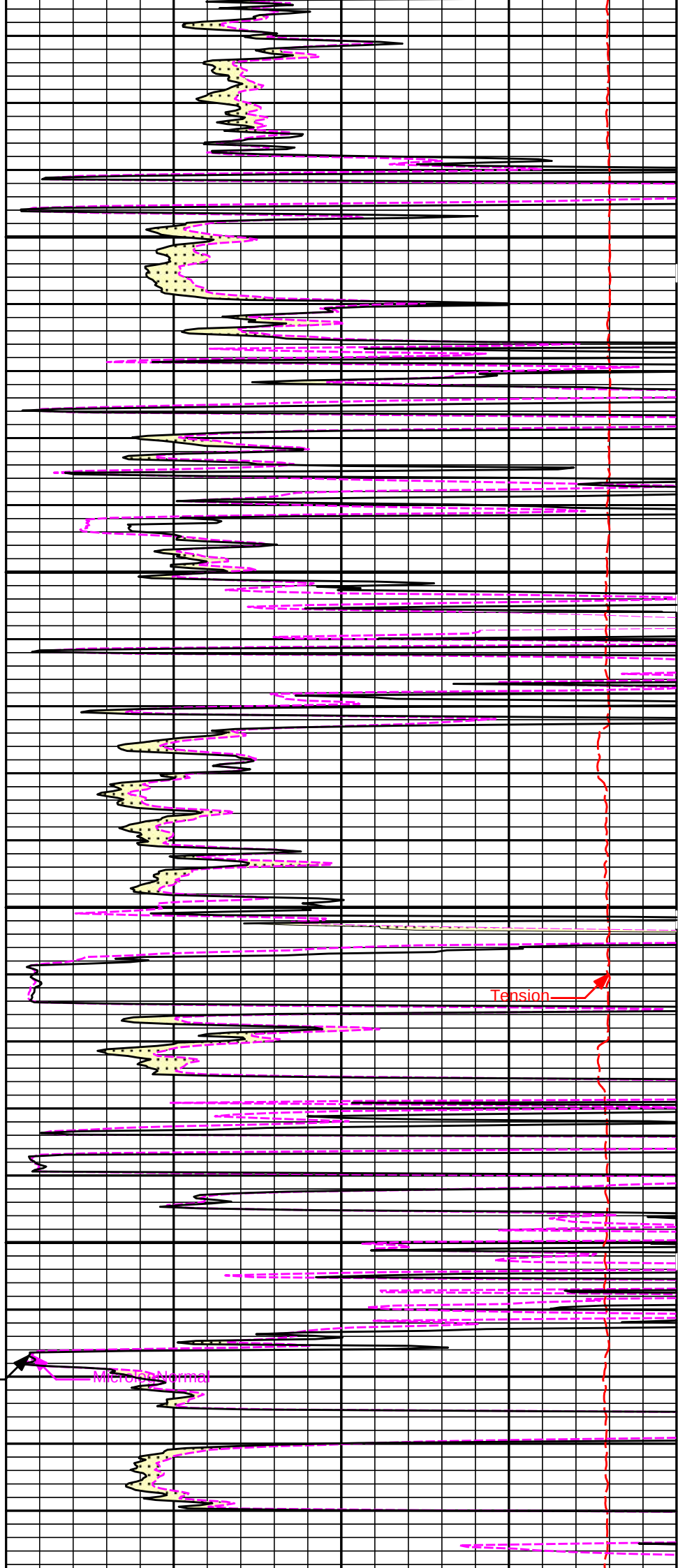
MicrologNormal

MicrologLateral



4500

4600



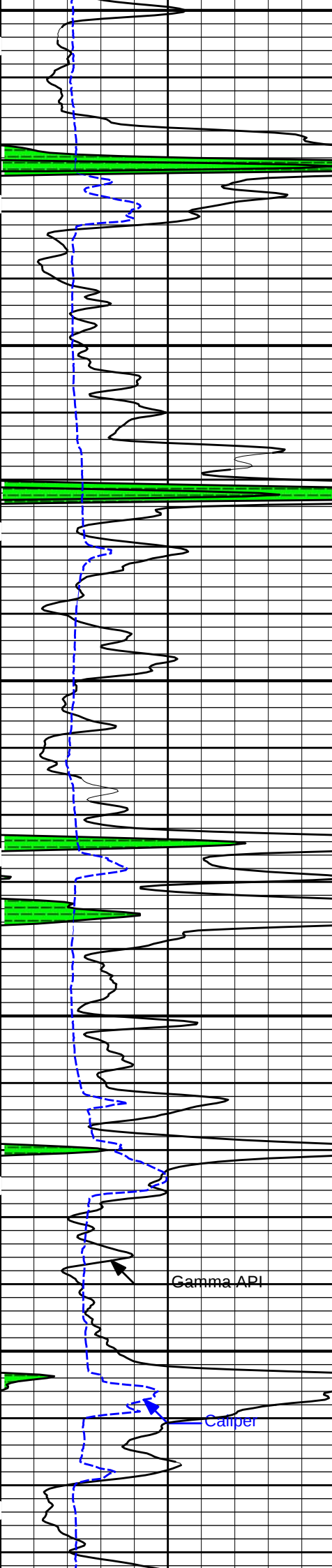
Tension

Microlog Normal

Microlog Lateral

Caliper

Gamma API

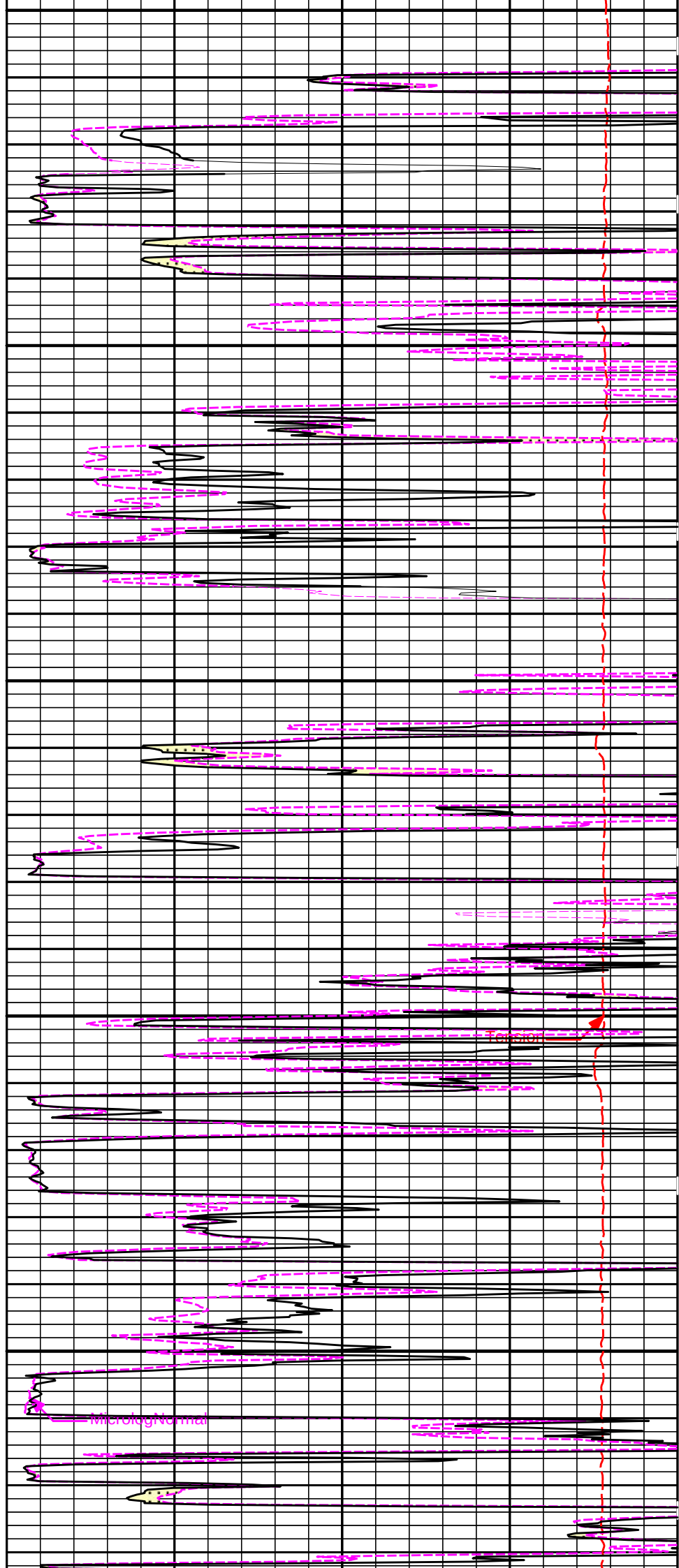


4700

4800

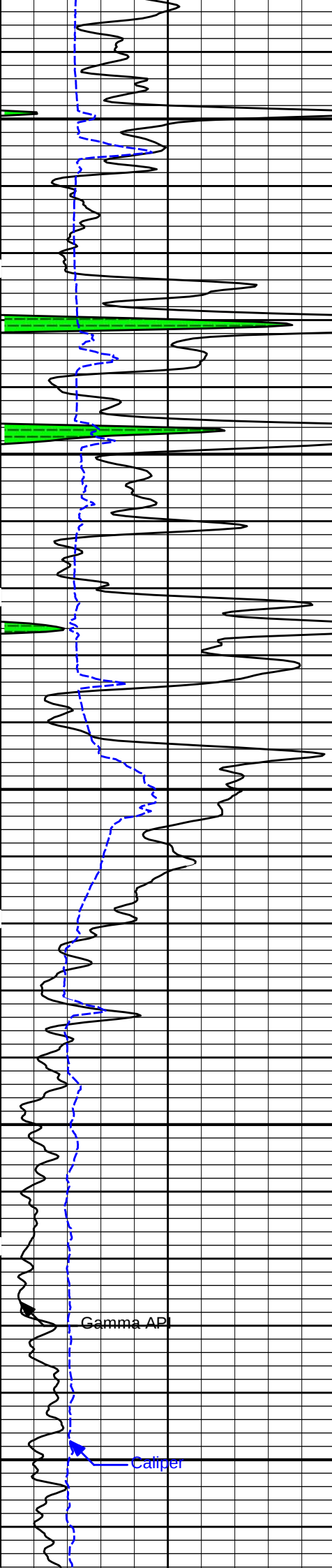
Gamma API

Caliper



Gamma API

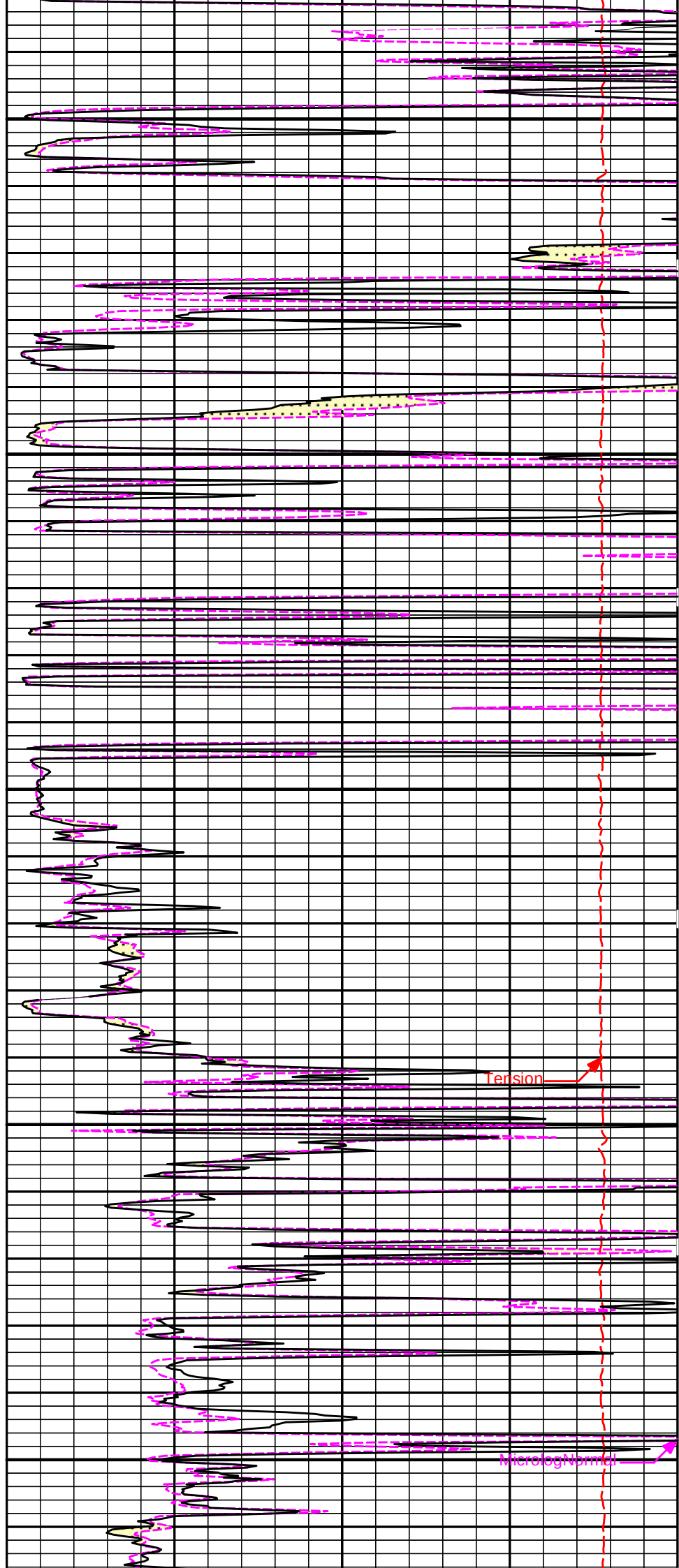
Caliper

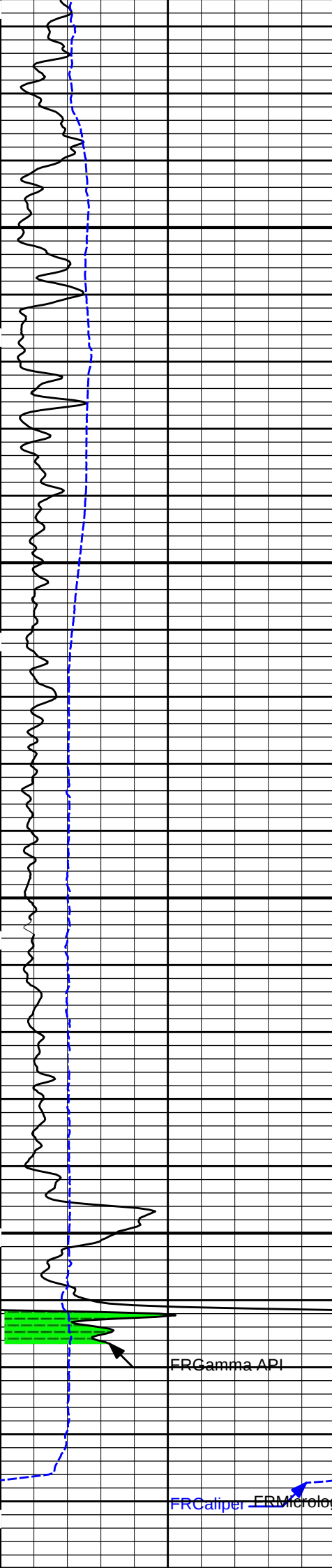


4900

5000

5100





5200

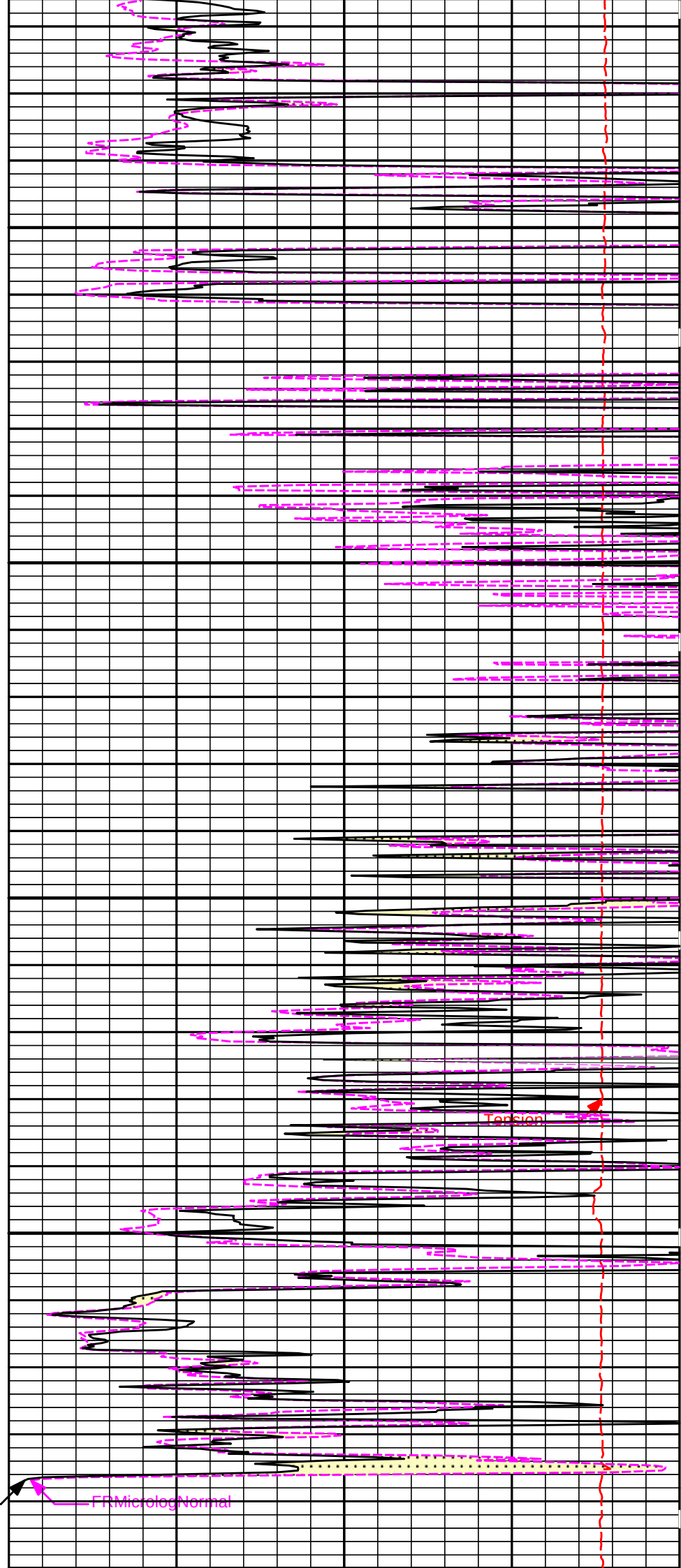
5300

FRCaliper

FRCaliper

FRCaliper

FRCaliper



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

HALLIBURTON

Plot Time: 15-Apr-16 03:43:15
Plot Range: 3898 ft to 5359.42 ft
Data: KOGER_3\Well Based\DETAILS\
Plot File: \\-LOCAL-KOGER_3\Well Based\MICROLOG\Microlog_IQ_5_main_lib

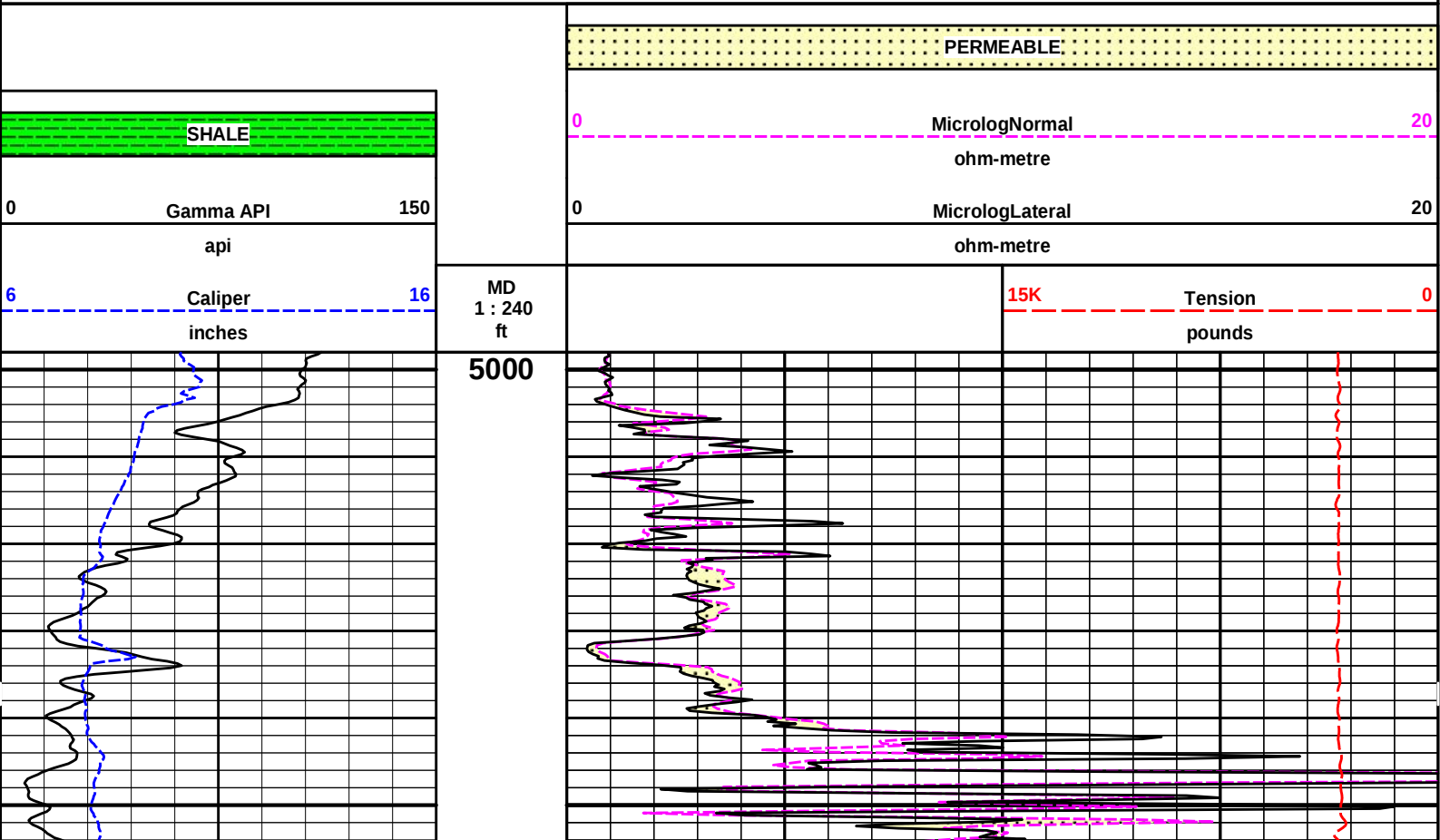
5 INCH MAIN LOG

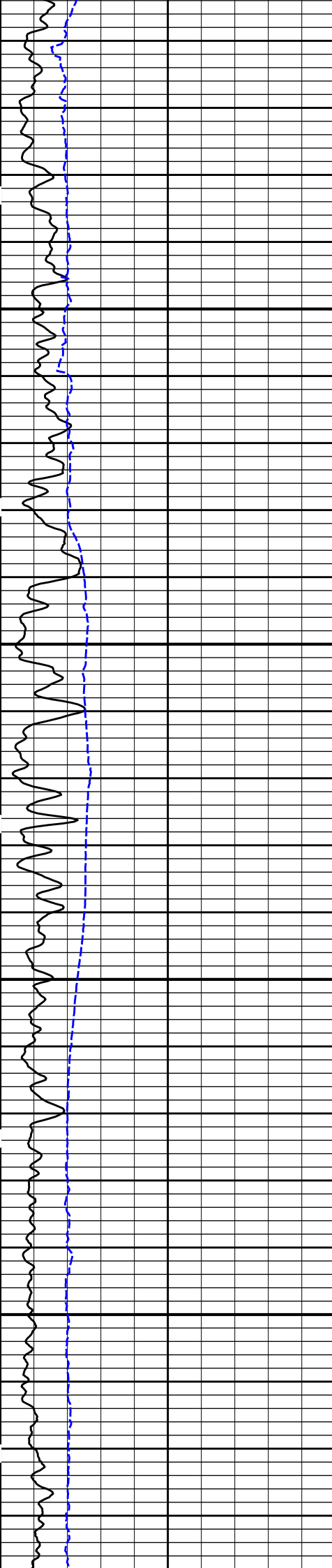
MEASURED DEPTH
MAIN LOG 5" PER 100'

HALLIBURTON

Plot Time: 15-Apr-16 03:43:15
Plot Range: 4998 ft to 5357.67 ft
Data: KOGER_3\Well Based\REPEAT\
Plot File: \\LOCAL-KOGER_3\Well Based\MICROLOG\Microlog_IQ_5_rep_lib

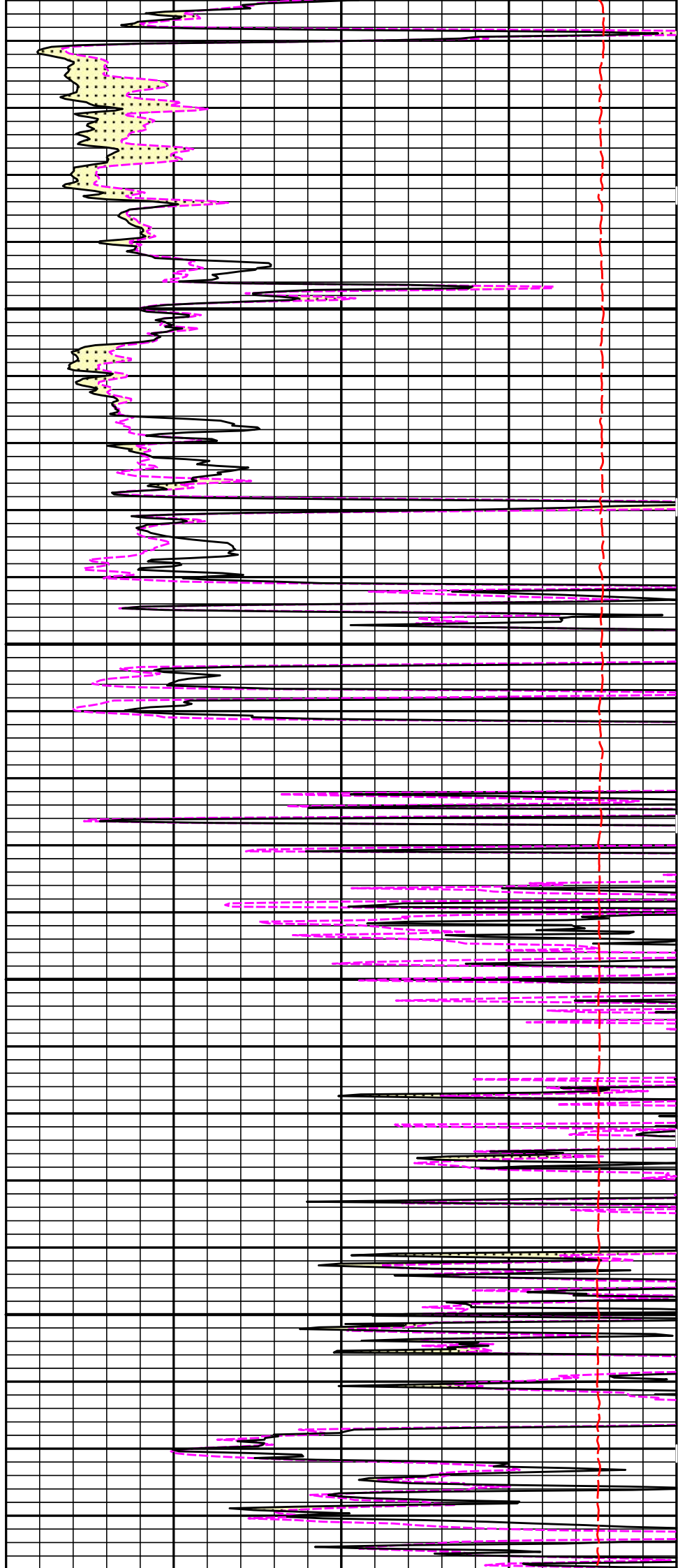
REPEAT SECTION

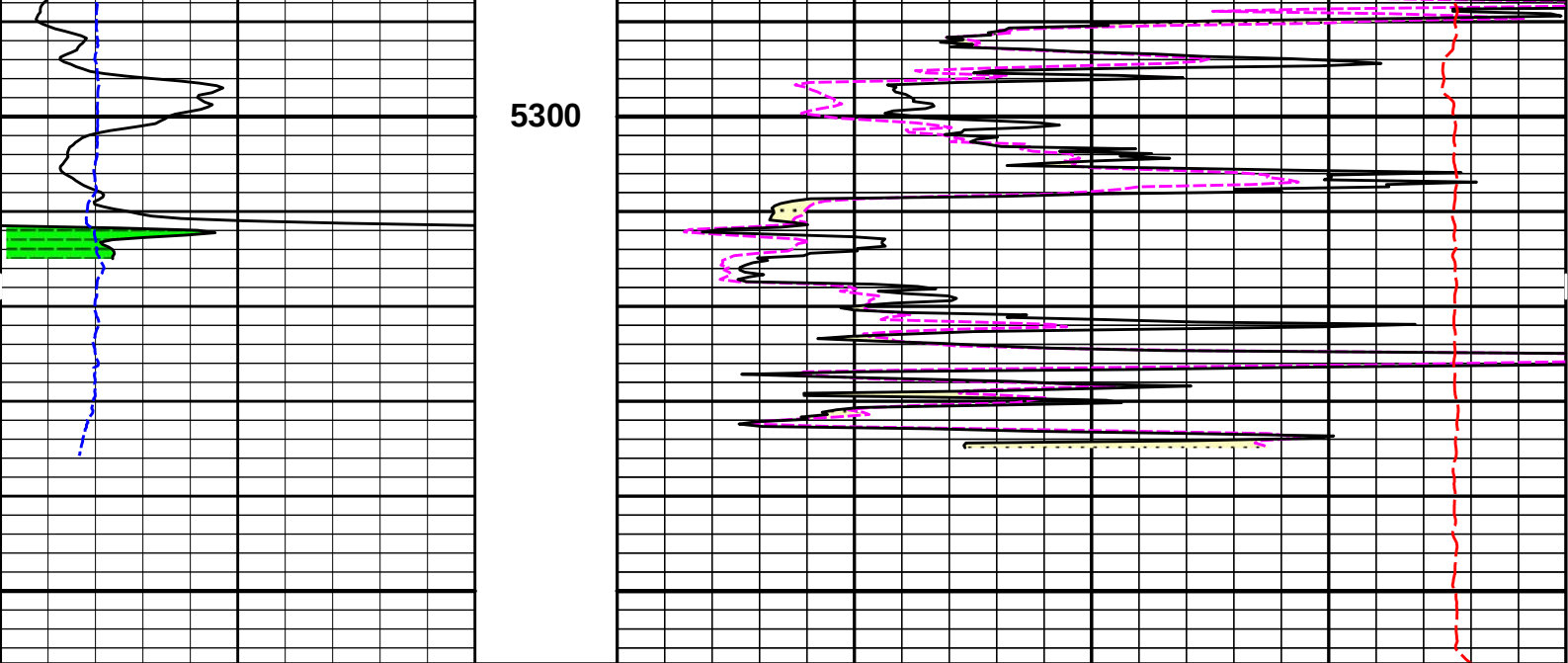




5100

5200





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

HALLIBURTON

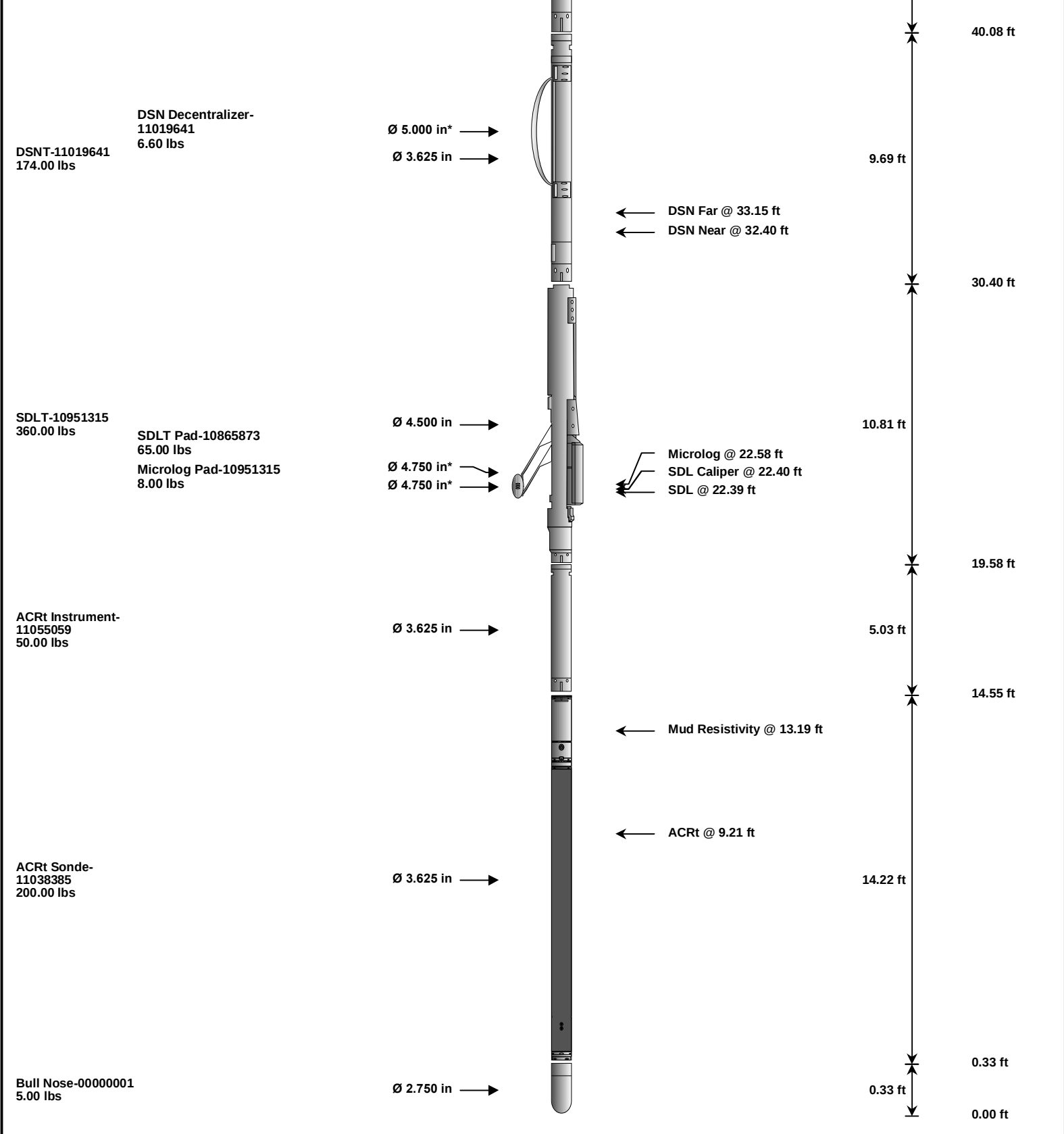
Plot Time: 15-Apr-16 03:43:16
Plot Range: 4998 ft to 5357.67 ft
Data: KOGER_3\Well Based\REPEAT\
Plot File: \\LOCAL-KOGER_3\Well Based\MICROLOG\Microlog_IQ_5_rep_lib

REPEAT SECTION

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
CH_HOS_I 37.50 lbs		Ø 2.750 in →		← Temperature @ 55.29 ft	3.50 ft	56.79 ft
XOHD-12345678 20.00 lbs		Ø 2.750 in → Ø 3.625 in →			0.95 ft	53.29 ft
SP Sub-10904995 60.00 lbs		Ø 3.625 in →		← SP @ 50.56 ft	3.74 ft	52.34 ft
						48.60 ft
GTET-11021139 165.00 lbs		Ø 3.625 in →		← GammaRay @ 42.54 ft	8.52 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	3.50	53.29	300.00
XOHD	Hostile to Dits Cross Over	12345678	20.00	0.95	52.34	300.00
SP	SP Sub	10904995	60.00	3.74	48.60	300.00
GTET	Gamma Telemetry Tool	11021139	165.00	8.52	40.08	60.00
DSNT	Dual Spaced Neutron	11019641	174.00	9.69	30.40	60.00
DCNT	DSN Decentralizer	11019641	6.60	5.13	* 33.73	300.00
SDLT	Spectral Density Tool	10951315	360.00	10.81	19.58	60.00
SDLP	Density Insite Pad	10865873	65.00	2.55	* 21.79	60.00
MICP	Microlog Pad	10951315	8.00	1.00	* 22.08	60.00
ACRt	Array Compensated True Resistivity Instrument Section	11055059	50.00	5.03	14.55	120.00
ACRt	Array Compensated True Resistivity Sonde Section	11038385	200.00	14.22	0.33	120.00
BLNS	Bull Nose	00000001	5.00	0.33	0.00	300.00

Total			1,151.10	56.79		
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* Not included in Total Length and Length Accumulation.

HALLIBURTON**PARAMETERS REPORT**

Depth (ft)	Tool Name	Mnemonic	Description	Value	Units
TOP					
	SHARED	BS	Bit Size	7.875	in
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	MDBS	Mud Base	Water	
	SHARED	MDWT	Borehole Fluid Weight	9.300	ppg
	SHARED	WAGT	Weighting Agent	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	5357.00	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	
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
ACRt Sonde	BHSM	Borehole Size Source Tool	SDLT	
ACRt Sonde	MBFL	Apply Corkscrew Effect?	No	
BOTTOM_____				
Data: KOGER_3I0001 RED_TRIPLEIDLE				Date: 15-Apr-16 01:59:06

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:GTET - 11021139

Engineer:WHITLOCK

Software Version:WL INSITE R4.6.3 (Build 5)

Reference Calibration Date:26-Feb-16 09:56:46

Calibration Date:10-Apr-16 15:48:49

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	23.0	23.1	api
Background + Calibrator	248.2	249.0	api
Calibrator	225.2	225.9	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name:GTET - 11021139

Engineer:WHITLOCK

Software Version:WL INSITE R4.6.3 (Build 5)

Reference Calibration Date:10-Apr-16 15:48:49

Calibration Date:10-Apr-16 15:54:51

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	23.1	23.3	api
Background + Calibrator	249.0	248.9	api
Calibrator	225.9	225.6	api

Shop	Field	Difference	Tolerance
225.9	225.6	0.3	+/- 9.00

DENSITY CALIPER SHOP CALIBRATION

Tool Name:SDLT - 10951315

Reference Calibration Date:18-Jan-16 11:11:04

Engineer: WHITLOCK		Calibration Date: 18-Feb-16 11:56:22		
Software Version: WL INSITE R4.6.3 (Build 5)		Calibration Version: 1		
Host Tool Name: DSNT - 11019641				
	CALIBRATION COEFFICIENTS			
	Measurement	Previous Value	New Value	Control Limit On New Value
	Pad Offset	-2649.25	-2649.25	-7000.00 - -1000.00
	Pad Gain	0.0003773	0.0003773	0.000200 - 0.000600
	Arm Offset	480.90	480.90	-5000.00 - 3000.00
	Arm Gain	0.0004044	0.0004044	0.000300 - 0.000700
	Arm Power	0.000001870	0.000001870	-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)	2.00	2.00	0.00	+/- 0.20
Medium Ring (in)	3.75	3.75	0.00	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.50	6.50	0.00	+/- 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 - 10951315		Reference Calibration Date: 18-Feb-16 11:56:22		
Engineer: WHITLOCK		Calibration Date: 10-Apr-16 15:44:16		
Software Version: WL INSITE R4.6.3 (Build 5)		Calibration Version: 1		

	MEASURED CALIPER VALUES				
	Measurement	Shop	Field	Change	Control Limit On New Value
	Pad Extension	3.75	3.77	0.02	+/- 0.10
	Ring Diameter	8.25	8.25	0.00	+/- 0.15
	PASS/FAIL SUMMARY				
Pad Extension Check:			Passed		
Diameter Check:			Passed		

MICRO LOG SHOP CALIBRATION				
Tool Name: Microlog Pad - 10951315		Reference Calibration Date: 18-Jan-16 12:52:41		
Engineer: WHITLOCK		Calibration Date: 18-Feb-16 14:53:42		
Software Version: WL INSITE R4.6.3 (Build 5)		Calibration Version: 1		
Host Tool Name: DSNT - 11019641				

	CALIBRATION COEFFICIENT SUMMARY					
	Measurement	Micro Log Normal		Micro Log Lateral		Units
		Measured	Calibrated	Measured	Calibrated	
	Tool Zero	-0.17	-0.17	-0.01	-0.01	ohmm
	Calibration Point #1	0.00	0.00	0.00	0.00	ohmm

Calibration Point #2	20.00	20.00	20.00	20.00	ohmm
Internal Reference	19.76	19.76	19.96	19.96	ohmm
Measurement	Micro Log Normal Tool Value		Micro Log Lateral Tool Value		Units
Tool Zero	3.11		0.19		V
Calibration Point #1	48.82		2.83		V
Calibration Point #2	5497.07		7124.17		V
Internal Reference	5430.58		7109.98		V

MICRO LOG FIELD CHECK					
Tool Name:	Microlog Pad - 10951315			Reference Calibration Date:	18-Feb-16 14:53:42
Engineer:	WHITLOCK			Calibration Date:	10-Apr-16 15:54:33
Software Version:	WL INSITE R4.6.3 (Build 5)			Calibration Version:	1

	Measurement	Micro Log Normal		Micro Log Lateral		Units
		Shop	Field	Shop	Field	
	Tool Zero	-0.17	-0.18	-0.01	-0.01	ohmm
	Internal Reference	19.76	19.66	19.96	19.86	ohmm
	Summary					
	Signal	Shop	Field	Difference	Tolerance	
	Microlog Normal	19.76	19.66	0.10	+/- 0.80	
	Microlog Lateral	19.96	19.86	0.10	+/- 0.80	

CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11021139						
Gamma Ray Calibrator	225.9	225.6	-----	0.3	+/- 9.00	api
SDLT-10951315						
Pad Extension	3.75	3.77	-----	-0.02	+/-0.10	in
Ring Diameter	8.25	8.25	-----	0.00	+/-0.15	in
Microlog Pad-10951315						
MicroLog Normal	19.76	19.66	-----	0.10	+/-0.80	ohmm
MicroLog Lateral	19.96	19.86	-----	0.10	+/-0.80	ohmm
Data: KOGER_3I0001 RED_TRIPLEIDLE					Date: 15-Apr-16 02:16:02	

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	56.79	NO	
BS	Bit Size	56.79	NO	
HDIA	Measured Hole Diameter	0.00	NO	
CH_HOS				
DHTN	DownholeTension	0.00	BLK	0.000
SP Sub				
PLTC	Plot Control Mask	50.56	NO	
SP	Spontaneous Potential	50.56	BLK	1.250
SPR	Raw Spontaneous Potential	50.56	NO	

SPO	Spontaneous Potential Offset	50.56	NO	
GTET				
TPUL	Tension Pull	42.54	NO	
GR	Natural Gamma Ray API	42.54	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	42.54	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	42.54	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	32.30	NO	
RNDS	Near Detector Telemetry Counts	32.40	BLK	1.417
RFDS	Far Detector Telemetry Counts	33.15	TRI	0.583
DNTT	DSN Tool Temperature	32.40	NO	
DSNS	DSN Tool Status	32.30	NO	
ERND	Near Detector Telemetry Counts EVR	32.40	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	33.15	BLK	0.000
ENTM	DSN Tool Temperature EVR	32.40	NO	
HDIA	Measured Hole Diameter	0.00	NO	
SDLT				
TPUL	Tension Pull	22.40	NO	
PCAL	Pad Caliper	22.40	TRI	0.250
ACAL	Arm Caliper	22.40	TRI	0.250
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

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	22.39	NO	
NAB	Near Above	22.21	BLK	0.920
NHI	Near Cesium High	22.21	BLK	0.920
NLO	Near Cesium Low	22.21	BLK	0.920
NVA	Near Valley	22.21	BLK	0.920
NBA	Near Barite	22.21	BLK	0.920
NDE	Near Density	22.21	BLK	0.920
NPK	Near Peak	22.21	BLK	0.920
NLI	Near Lithology	22.21	BLK	0.920
NBAU	Near Barite Unfiltered	22.21	BLK	0.250
NLIU	Near Lithology Unfiltered	22.21	BLK	0.250
FAB	Far Above	22.56	BLK	0.250
FHI	Far Cesium High	22.56	BLK	0.250
FLO	Far Cesium Low	22.56	BLK	0.250
FVA	Far Valley	22.56	BLK	0.250
FBA	Far Barite	22.56	BLK	0.250
FDE	Far Density	22.56	BLK	0.250
FPK	Far Peak	22.56	BLK	0.250
FLI	Far Lithology	22.56	BLK	0.250
PTMP	Pad Temperature	22.40	BLK	0.920
NHV	Near Detector High Voltage	21.79	NO	
FHV	Far Detector High Voltage	21.79	NO	
ITMP	Instrument Temperature	21.79	NO	
DDHV	Detector High Voltage	21.79	NO	
HDIA	Measured Hole Diameter	0.00	NO	
Microlog Pad				
TPUL	Tension Pull	22.58	NO	
MINV	Microlog Lateral	22.58	BLK	0.750
MNOR	Microlog Normal	22.58	BLK	0.750
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COMPANY	HERMAN L. LOEB, LLC
WELL	KOGER #3

FIELD	ALFORD		
COUNTY	KIOWA	STATE	KANSAS
HALLIBURTON		MICROLOG	