

HALLIBURTON

MICROLOG

HARTMAN OIL COMPANY, INC.									
COMPANY					HARTMAN OIL COMPANY, INC.				
WELL					BECKER #7				
FIELD/BLOCK					DAMME				
COUNTY					FINNEY				
STATE					KANSAS				
Permanent Datum					GL				
Log measured from					KB				
Drilling measured from					KB				
Date					10-Sep-17				
Run No.					ONE				
Depth - Driller					4810.0 ft				
Depth - Logger					4801.0 ft				
Bottom - Logged Interval					4778.00 ft				
Top - Logged Interval					3500.00 ft				
Casing - Driller					8.625 in @ 347.0 ft				
Casing - Logger					347.0 ft				
Bit Size					7.875 in				
Type Fluid in Hole					Water Based Mud				
Density					8.9 ppg				
PH					8.50 pH				
Source of Sample					MUD PIT				
Rm @ Meas. Temperature					0.79 ohmm @ 75.00 degF				
Rmf @ Meas. Temperature					0.65 ohmm @ 75.00 degF				
Rmc @ Meas. Temperature					0.93 ohmm @ 75.00 degF				
Source Rmf					MEASURED				
Rm @ BHT					0.52 ohmm @ 118.0 degF				
Time Since Circulation					7.0 hr				
Time on Bottom					10-Sep-17 15:30				
Max. Rec. Temperature					118.00 degF @ 75.0 ft				
Equipment					11230668 EL RENO, OK				
Recorded By					JORGE ORLANDO PEREZ				
Witnessed By					CHRIS PETERS				

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Service Ticket No.: 904287619										API No.: 15-055-22458-00										PGM Version: WL INSITE R5.0.5 (Build 8)																			
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-12109517																			
Source Rmf					Rmc															S-12109515																			
Rm @ BHT					@					@																													
Rmf @ BHT					@					@																													
Rmc @ BHT					@					@																													
EQUIPMENT DATA																																							
GAMMA					ACOUSTIC					DENSITY					NEUTRON																								
Run No.					ONE					Run No.					Run No.					ONE					Run No.					ONE									
Serial No.					10971172					Serial No.					Serial No.					12153520					Serial No.					11019643									
Model No.					GTET					Model No.					Model No.					SDLT					Model No.					DSNT									
Diameter					3.625"					No. of Cent.					Diameter					5.5"					Diameter					3.625"									
Detector Model No.					T-102					Spacing					Log Type					GAM-GAM					Log Type					NEU-NEU									
Type					SCINT										Source Type					CS137					Source Type					AM241BE									
Length					8"					LSA [Y/N]					Serial No.					20791B					Serial No.					DSN-438									
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		2.71 gr/cc		30		-10		LIME												

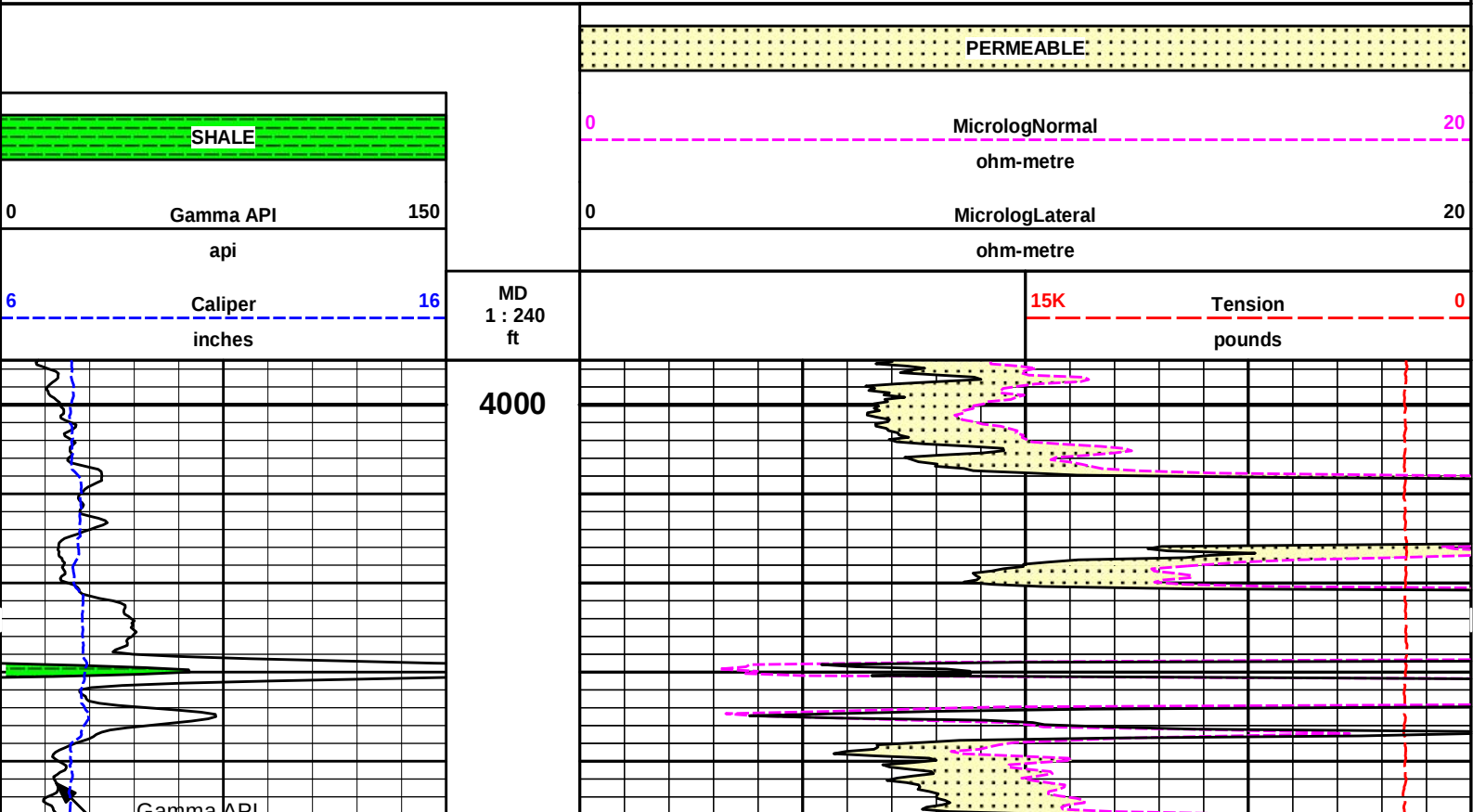
[illegible]

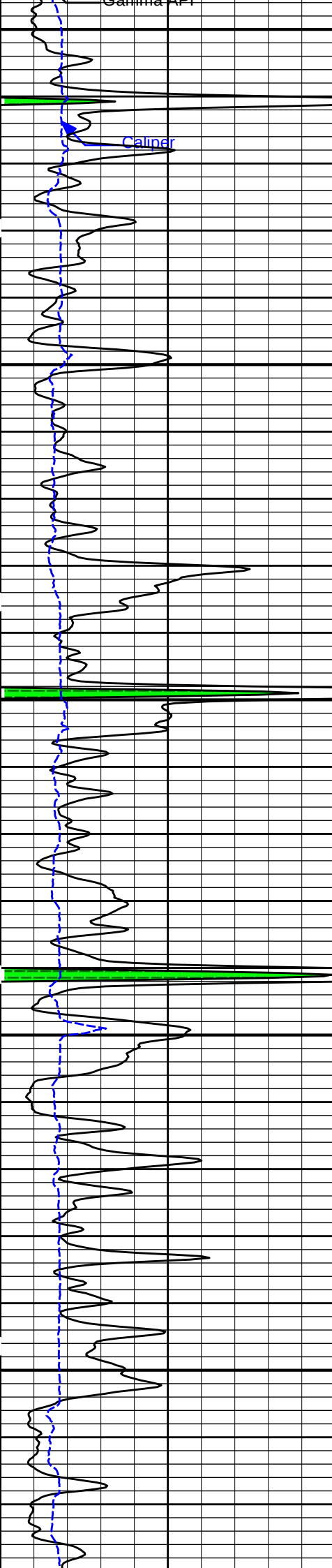
HALLIBURTON

Plot Time: 10-Sep-17 15:32:13
Plot Range: 3995 ft to 4806.17 ft
Data: BECKER_7\Well Based\DAQ-0001-004\
Plot File: \\LOCAL-BECKER_7\Well Based\MICROOG\Microlog_IQ_5_main.lib

5 INCH MAIN LOG

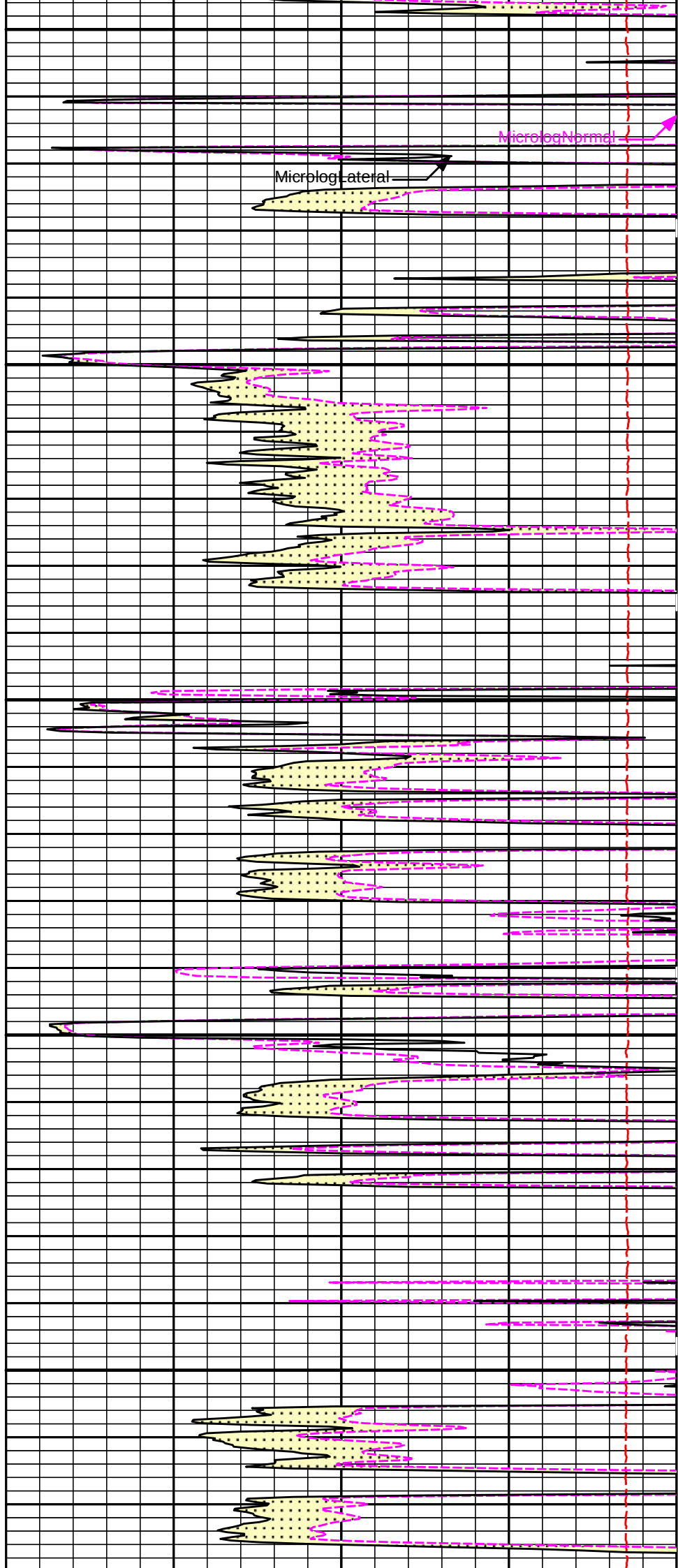
MEASURED DEPTH
MAIN LOG 5" PER 100'

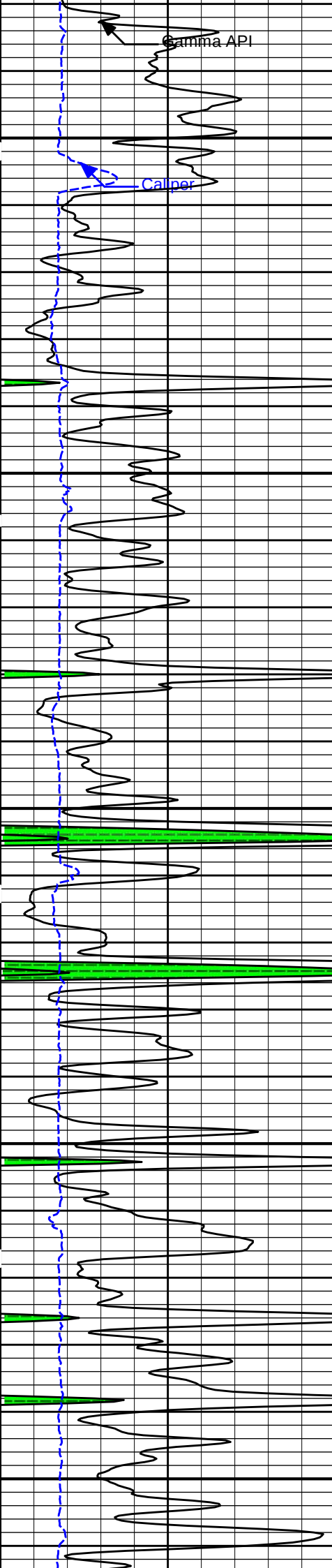




4100

4200

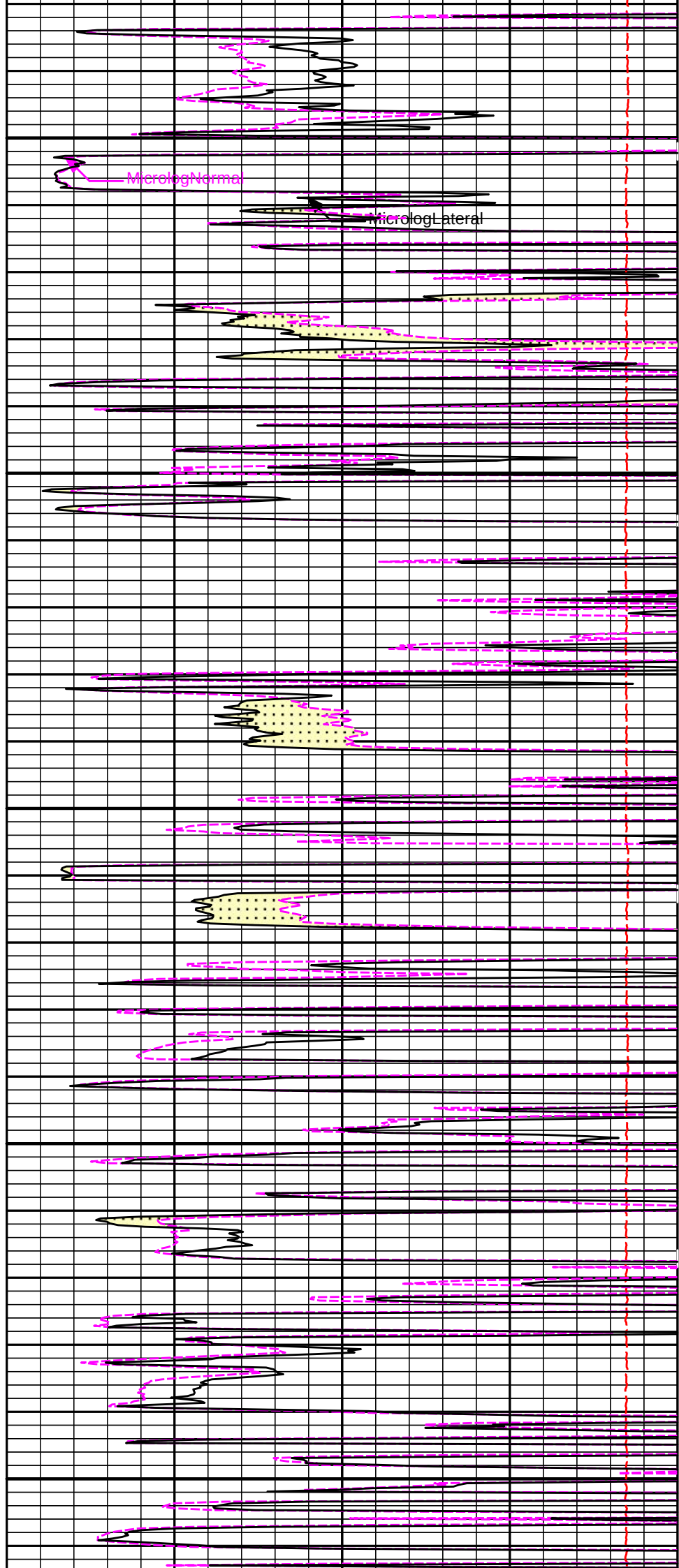


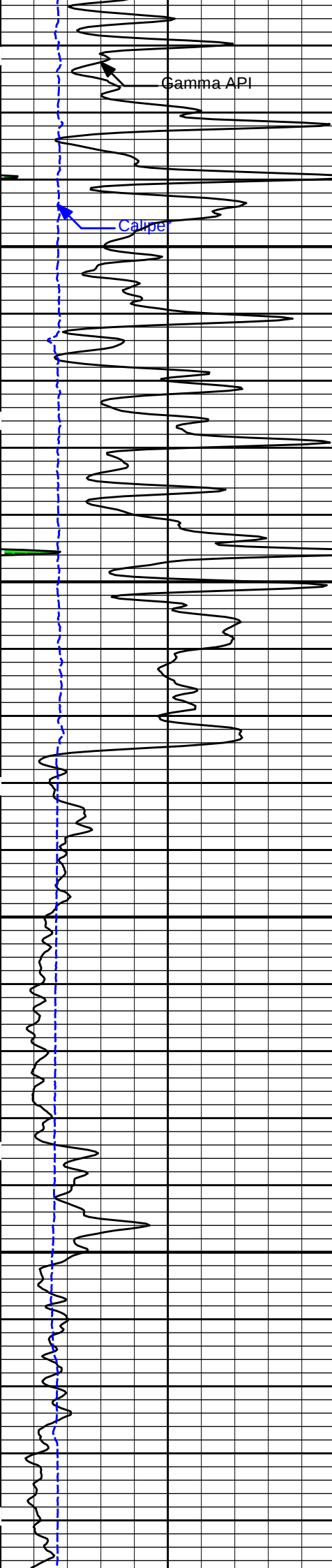


4300

4400

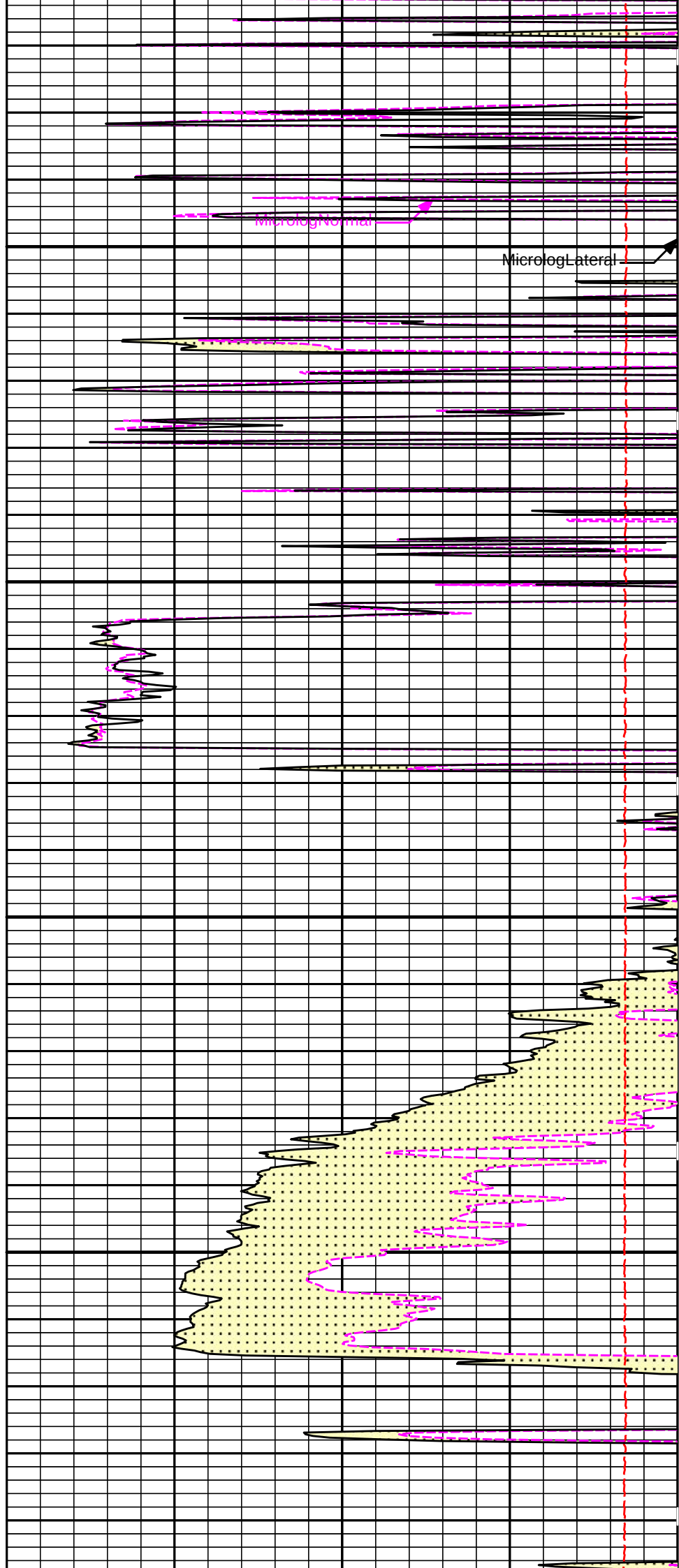
4500

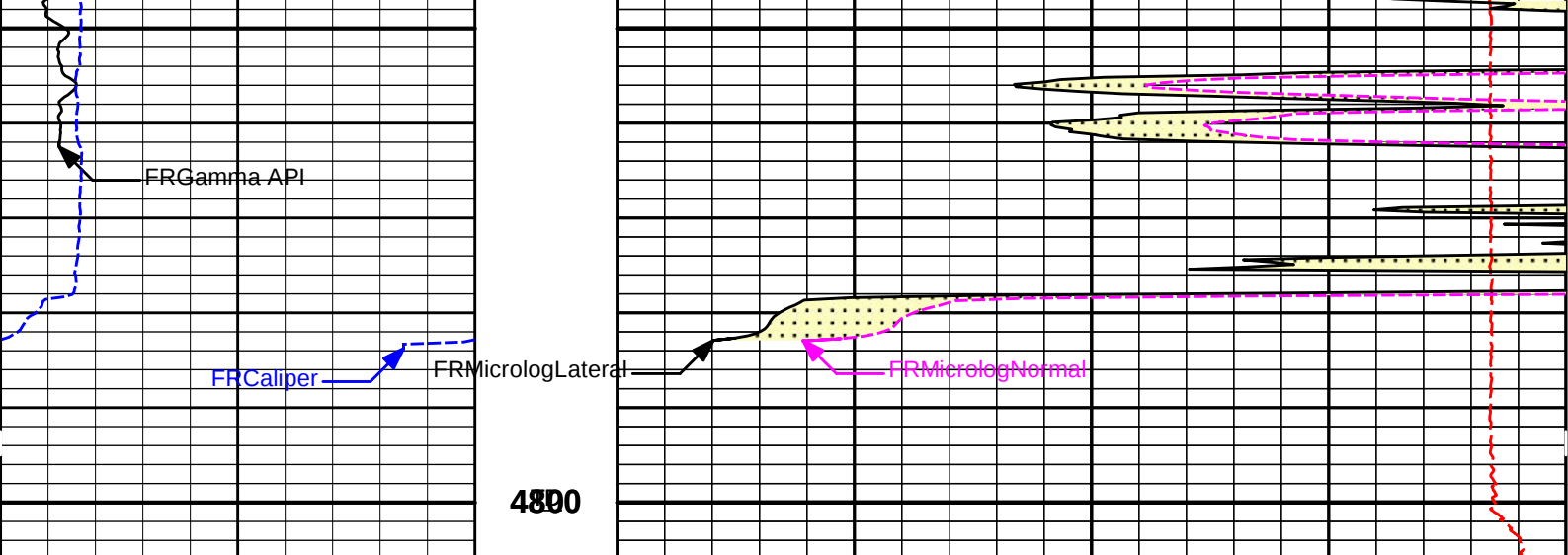




4600

4700





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

HALLIBURTON

Plot Time: 10-Sep-17 15:32:15
Plot Range: 3995 ft to 4806.17 ft
Data: BECKER_7\Well Based\DAQ-0001-004\
Plot File: \\-LOCAL-\\BECKER_7\Well Based\MICROOG\Microlog_IQ_5_main_lib

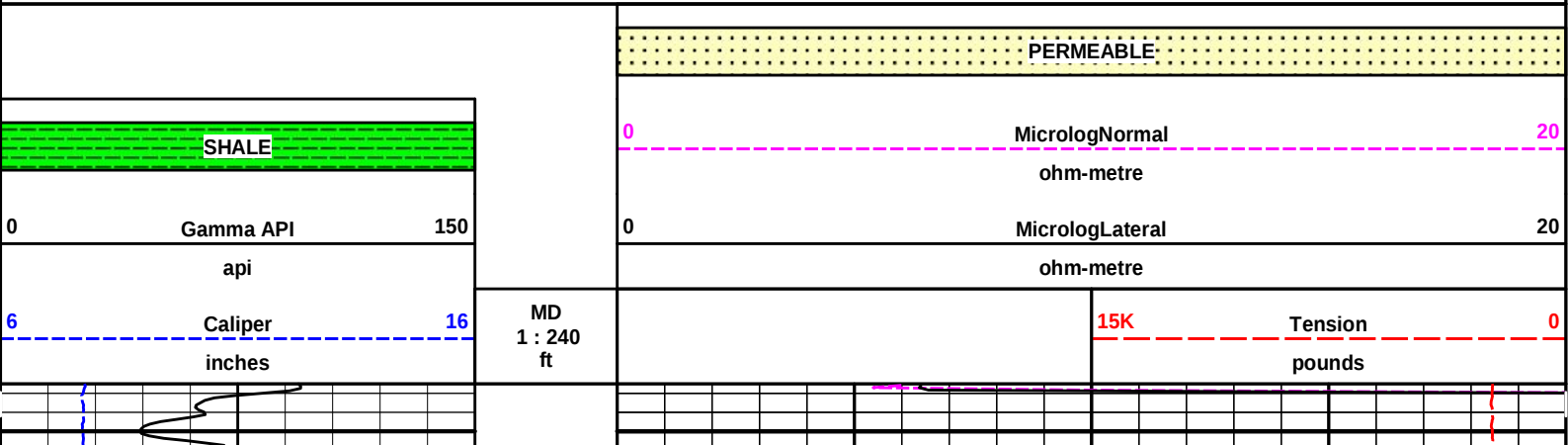
5 INCH MAIN LOG

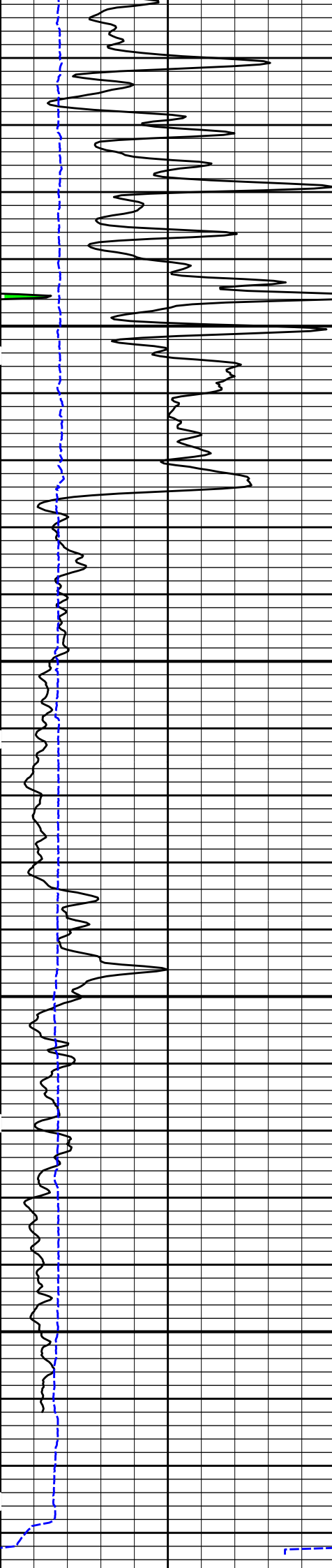
MEASURED DEPTH
MAIN LOG 5" PER 100'

HALLIBURTON

Plot Time: 10-Sep-17 15:32:15
Plot Range: 4545 ft to 4804.83 ft
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Plot File: \\-LOCAL-\\BECKER_7\Well Based\MICROOG\Microlog_IQ_5_rep_lib

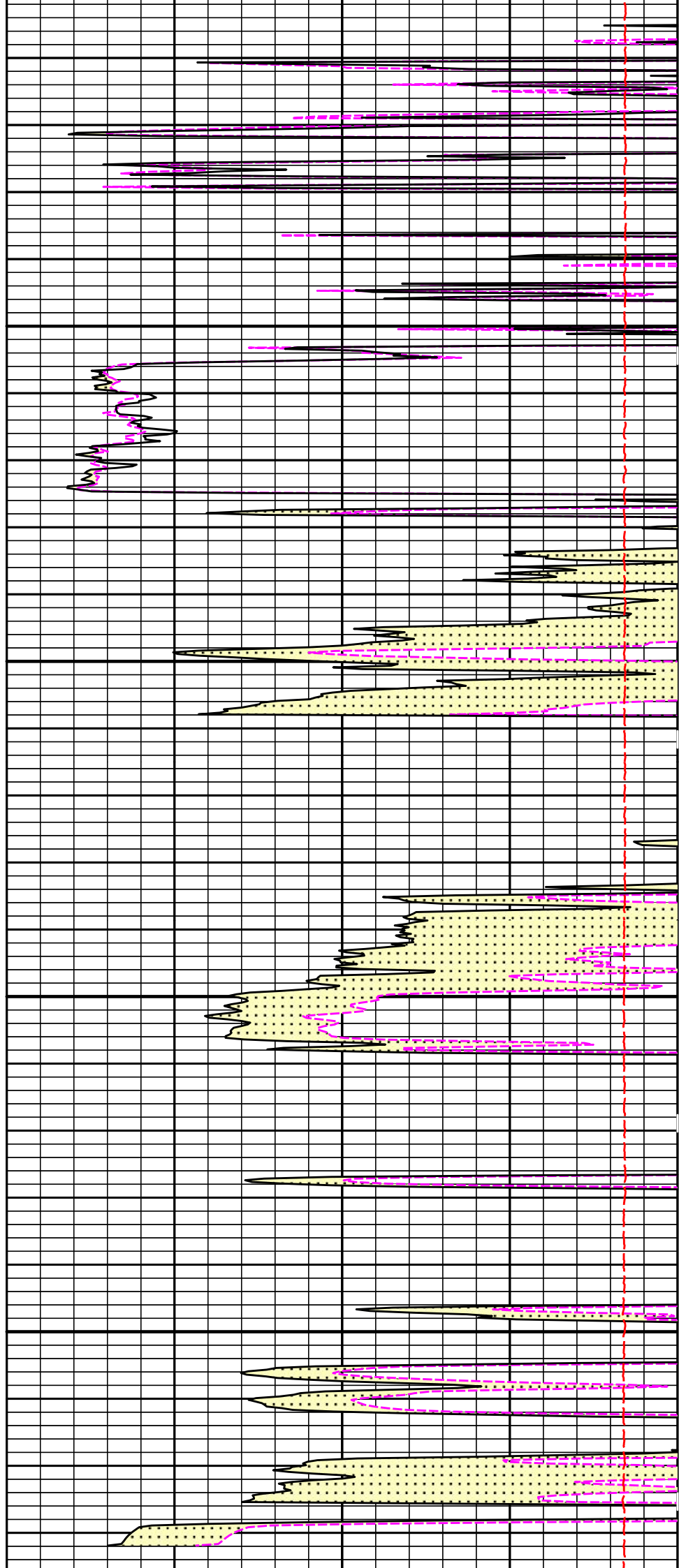
REPEAT SECTION

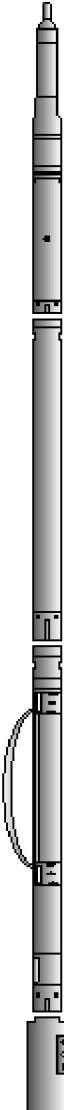


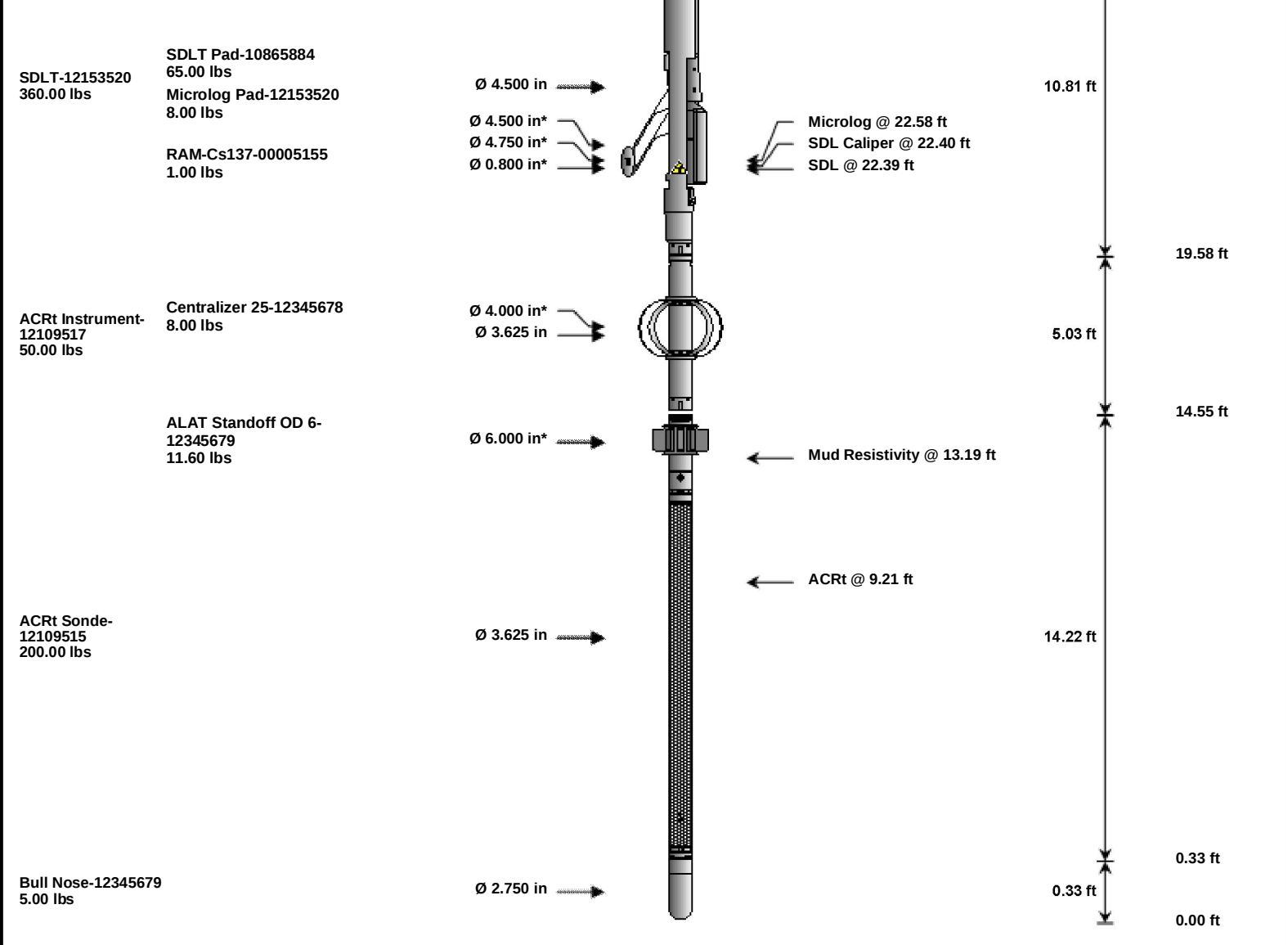


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Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
CH_HOS-11459024 37.50 lbs	Weak Point 7000 lbs- 12345678 0.01 lbs	Ø 2.750 in Ø 0.010 in*		← Temperature @ 55.29 ft	2.50 ft	55.79 ft
XOHD-11569312 20.00 lbs		Ø 2.750 in Ø 3.625 in			0.95 ft	53.29 ft
						52.34 ft
SP Sub-11441709 60.00 lbs		Ø 3.625 in		← SP @ 50.56 ft	3.74 ft	
				← Z-Accelerometer @ 48.15 ft		48.60 ft
GTET-10971172 165.00 lbs		Ø 3.625 in			8.52 ft	
				← GammaRay @ 42.54 ft		40.08 ft
DSNT-11019643 174.00 lbs	DSN Decentralizer- 11019643 6.60 lbs	Ø 5.000 in* Ø 3.625 in			9.69 ft	
				← DSN Far @ 33.15 ft ← DSN Near @ 32.40 ft		30.40 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	11459024	37.50	2.50	53.29	300.00	
WP7K	Weak Point 7000 lbs	12345678	0.01	0.01	*	54.09	300.00
XOHD	Hostile to Dits Cross Over	11569312	20.00	0.95	52.34	300.00	
SP	SP Sub	11441709	60.00	3.74	48.60	300.00	
GTET	Gamma Telemetry Tool	10971172	165.00	8.52	40.08	60.00	
DSNT	Dual Spaced Neutron	11019643	174.00	9.69	30.40	60.00	
DCNT	DSN Decentralizer	11019643	6.60	5.13	*	33.73	300.00
SDLT	Spectral Density Tool	12153520	360.00	10.81	19.58	60.00	
SDLP	Density Insite Pad	10865884	65.00	2.55	*	21.79	60.00
Cs137	Logging Source, SDLT-I, 1.78 Ci - Cs137	00005155	1.00	0.80	*	22.02	300.00
MICP	Microlog Pad	12153520	8.00	1.00	*	22.08	60.00
ACRt	Array Compensated True Resistivity Instrument Section	12109517	50.00	5.03	14.55	120.00	
OBCEN	Centralizer - 25 in. Overbody	12345678	8.00	2.08	*	16.24	300.00
ACRt	Array Compensated True Resistivity Sonde Section	12109515	200.00	14.22	0.33	120.00	
ALATS	Array Laterolog Tool OD 6 Standoff	12345679	11.60	1.00	*	13.19	60.00
BLNS	Bull Nose	12345679	5.00	0.33	0.00	300.00	
Total				1,171.71	55.79		
* Not included in Total Length and Length Accumulation.							
Data: BECKER_710001 GTET-DSNT-SDLT-ACRtIDLE							
Date: 10-Sep-17 13:43:35							

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	8.950	ppg
SHARED	WAGT	Weighting Agent	Natural	
SHARED	BSAL	Borehole salinity	0.00	ppm
SHARED	FSAL	Formation Salinity NaCl	0.00	ppm
SHARED	WPHS	OBM Water Phase Salinity NaCl	0.00	ppm
SHARED	OFOW	Base Oil Fraction from Oil/Water Ratio	1.00	
SHARED	OBMT	Oil based Mud Type	Diesel	
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	CSOD	Inner Casing OD size	8.500	in
SHARED	CSWT	Casing Weight	17.00	lbpf
SHARED	ISOC	Is Outer Casing Present?	No	
SHARED	COOD	Outer Casing OD size	0.000	in
SHARED	CSWT	Outer Casing Weight	0.00	lbpf
SHARED	CSCM	Casing Cemented	Yes	
SHARED	CMTY	API Cement Class	H	
SHARED	CMWT	Cement Weight	16.500	ppg
SHARED	CSTR	Compressive Strength	1000.00	psia
SHARED	ST	Surface Temperature	75.0	degF
SHARED	TD	Total Well Depth	4810.00	ft
SHARED	BHT	Bottom Hole Temperature	124.0	degF
SHARED	SVTM	Navigation and Survey Master Tool	NONE	
SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET	
SHARED	TEMM	CBM Temperature Master Tool	GTET	
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	
Rwa / CrossPlot	ROIN	Input for RO Calculation	Rwa	
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	DNTT	Temperature Correction Type	None	
DSNT	DNTT	DSN Tool Temperature	75.0	degF
DSNT	DNFT	DSN Fixed Temperature Value	200.0	degF
DSNT	DNTT	Top Zone Temperature Value	75.0	degF
DSNT	DNBT	DSN Bottom Zone Temperature Value	200.0	degF

DSNT	DND	DSN Bottom Zone Temperature Value	200.0	degf
DSNT	DTDT	Top Depth for Temperature Gradient Calculation (Measured Depth)	0	ft
DSNT	DBDT	Bottom Zone Temperature Depth (Measured Depth)	10000	ft
DSNT	DPRS	DSN Pressure Correction Type	None	
DSNT	DNFP	DSN Fixed Pressure Value	14.70	psia
DSNT	DNTP	DSN Top Zone Pressure Value	14.70	psia
DSNT	DNBP	DSN Bottom Zone Pressure Value	14.70	psia
DSNT	DTDP	Top Depth for Pressure Gradient Calculation (Measured Depth)	0	ft
DSNT	DNDP	Bottom Zone Pressure Depth (Measured Depth)	0	ft
DSNT	SHCO	View More Correction Options	No	
DSNT	HSCO	Correct for Holesize?	Yes	
DSNT	MCCO	Correct for Mud Cake?	No	
DSNT	MWCO	Correct for Mud Weight?	No	
DSNT	BSCO	Correct for Borehole Salinity?	No	
DSNT	FSCO	Correct for Formation Salinity?	No	
DSNT	SGCO	Correct for Formation Sigma?	No	
DSNT	SIGM	Sigma Matrix	0.00	
DSNT	SIGW	Sigma Water	0.00	
DSNT	CTCO	Correct for Casing Thickness?	Yes	
DSNT	CMCO	Correct for Cement Thickness?	Yes	
DSNT	UTVD	Use TVD for Gradient Corrections?	No	
DSNT	LHWT	Logging Horizontal Water Tank?	No	
DSNT	USND	Use Var StandOff?	Yes	
DSNT	BHSM	Borehole Size Source Tool	SDLT	
SDLT	CLOK	Process Caliper Outputs?	Yes	
SDLT	SAO	SDL Backup Arm Offset	0.00	in
SDLT	PAO	Pad Arm Offset	0.00	in
Microlog Pad	MLOK	Process MicroLog Outputs?	Yes	
Microlog Pad	MINO	Microlog Lateral Offset	0.00	ohmm
Microlog Pad	MNOO	Microlog Normal Offset	0.00	ohmm
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	MLPE	Higher PE Accuracy?	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	
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	RMAX	Maximum Resistivity for MAP	200.00	ohmm
ACRt Sonde	LSFU	ACRT Long Space Array No of Frequency Used	3	
ACRt Sonde	MSFU	ACRT Middle 17 Space Array No of Frequency Used	3	
ACRt Sonde	SSFU	ACRT Short Space Array No of Frequency Used	2	
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	
ACRt Sonde	HRFL	High-Resistivity Version (Tar Sand Only)?	No	
BOTTOM				
Data: BECKER_710001 GTET-DSNT-SDLT-ACRtIDLE			Date: 10-Sep-17 13:45:27	

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name: GTET - 10971172

Reference Calibration Date: 14-Jul-17 15:53:59

Engineer: WHITLOCK

Calibration Date: 04-Sep-17 09:33:42

Software Version: WL INSITE R5.0.5 (Build 8)

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	25.3	25.1	api
Background + Calibrator	259.0	257.1	api
Calibrator	233.7	232.0	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name: GTET - 10971172

Reference Calibration Date: 04-Sep-17 09:33:42

Engineer: WHITLOCK

Calibration Date: 04-Sep-17 09:38:31

Software Version: WL INSITE R5.0.5 (Build 8)

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	25.1	24.1	api
Background + Calibrator	257.1	255.9	api
Calibrator	232.0	231.7	api

Shop	Field	Difference	Tolerance
232.0	231.7	0.3	+/- 9.00

DENSITY CALIPER SHOP CALIBRATION

Tool Name: SDLT - 12153520

Reference Calibration Date: 16-Jul-17 09:04:46

Engineer: T. HYDE

Calibration Date: 16-Jul-17 09:15:37

Software Version: WL INSITE R5.0.5 (Build 8)

Calibration Version: 1

Host Tool Name: DSNT - 11019643

CALIBRATION COEFFICIENTS

Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-4999.24	-4827.59	-7000.00 - -1000.00
Pad Gain	0.0003776	0.0003732	0.0002000 - 0.0006000
Arm Offset	-3298.36	-3861.19	-5000.00 - 3000.00
Arm Gain	0.0004826	0.0005319	0.000300 - 0.000700
Arm Power	-0.000003416	-0.000006577	-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)	1.96	2.00	0.04	+/- 0.20
Medium Ring (in)	3.73	3.75	0.02	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.55	6.50	-0.05	+/- 0.20
Medium Ring (in)	8.19	8.25	0.06	+/- 0.20

	Medium Ring (in)	0.15	0.25	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 - 12153520		Reference Calibration Date:	16-Jul-17 09:15:37	
Engineer:	WHITLOCK		Calibration Date:	04-Sep-17 09:21:44	
Software Version:	WL INSITE R5.0.5 (Build 8)		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	8.35	0.10	+/- 0.15
	PASS/FAIL SUMMARY				
	Pad Extension Check:			Passed	
	Diameter Check:			Passed	

MICRO LOG SHOP CALIBRATION					
Tool Name:	Microlog Pad - 12153520		Reference Calibration Date:	01-Jan-70 00:00:00	
Engineer:	T. HYDE		Calibration Date:	03-Jul-17 10:53:37	
Software Version:	WL INSITE R5.0.5 (Build 8)		Calibration Version:	1	
Host Tool Name:	DSNT - 11019643				

	CALIBRATION COEFFICIENT SUMMARY					
	Measurement	Micro Log Normal		Micro Log Lateral		
		Measured	Calibrated	Measured	Calibrated	Units
	Tool Zero	-0.13	-0.13	-0.00	-0.00	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	19.85	19.85	19.96	19.96	ohmm
	Measurement	Micro Log Normal Tool Value		Micro Log Lateral Tool Value		Units
	Tool Zero	0.10		0.07		V
	Calibration Point #1	34.01		1.14		V
	Calibration Point #2	5331.93		6960.54		V
	Internal Reference	5293.44		6948.13		V

MICRO LOG FIELD CHECK					
Tool Name:	Microlog Pad - 12153520		Reference Calibration Date:	03-Jul-17 10:53:37	
Engineer:	WHITLOCK		Calibration Date:	04-Sep-17 10:35:42	
Software Version:	WL INSITE R5.0.5 (Build 8)		Calibration Version:	1	

	Measurement	Micro Log Normal		Micro Log Lateral		
		Shop	Field	Shop	Field	Units
	Tool Zero	-0.13	-0.13	-0.00	-0.00	ohmm
	Internal Reference	19.85	19.85	19.96	19.95	ohmm
	Summary					
	Signal	Shop	Field	Difference	Tolerance	
	Microlog Normal	19.85	19.85	0.00	+/- 0.80	
	Microlog Lateral	19.96	19.95	0.01	+/- 0.80	

CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-10971172						
Gamma Ray Calibrator	232.0	231.7	-----	0.3	+/- 9.00	api
SDLT-12153520						
Pad Extension	3.75	3.75	-----	0.00	+/-0.10	in
Ring Diameter	8.25	8.35	-----	-0.10	+/-0.15	in
Microlog Pad-12153520						
MicroLog Normal	19.85	19.85	-----	0.00	+/-0.80	ohmm
MicroLog Lateral	19.96	19.95	-----	0.01	+/-0.80	ohmm
Data: BECKER_710001 GTET-DSNT-SDLT-ACRtIDLE				Date: 10-Sep-17 13:44:43		

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	55.79	NO	
BS	Bit Size	55.79	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	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
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	
Microlog Pad				
TPUL	Tension Pull	22.58	NO	

TPUL	Tension Pull	22.58	NO	
MINV	Microlog Lateral	22.58	BLK	0.750
MNOR	Microlog Normal	22.58	BLK	0.750
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	
Data: BECKER_710001 GTET-DSNT-SDLT-ACRtIDLE			Date: 10-Sep-17 13:45:04	

COMPANY	HARTMAN OIL COMPANY, INC.		
WELL	BECKER #7		
FIELD	DAMME		
COUNTY	FINNEY	STATE	KANSAS
HALLIBURTON		MICROLOG	