

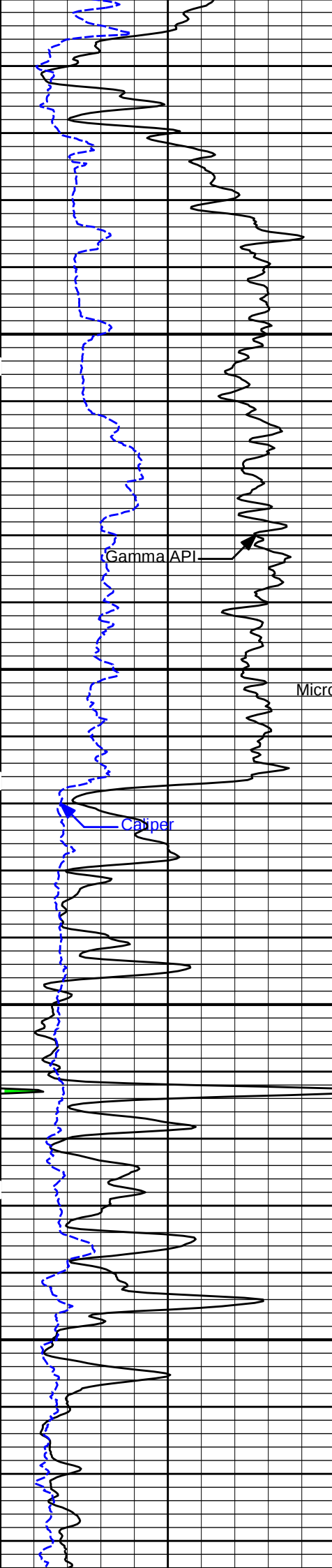
HALLIBURTON

MICROLOG

COMPANY				BIRD DOG OIL, LLC			
WELL				HALL-GATES 2-5			
FIELD/BLOCK				GATES			
COUNTY				STAFFORD			
STATE				KANSAS			
Permanent Datum		GL		Elev. 1896.0 ft		Other Services:	
Log measured from		KB		9.0 ft above perm. Datum		DSNT/SDLT	
Drilling measured from		KB				MICROLOG	
Date		18-Oct-19				G.L.	
Run No.		ONE					
Depth - Driller		3850.0 ft					
Depth - Logger		3850.0 ft					
Bottom - Logged Interval		3828.00 ft					
Top - Logged Interval		3200.00 ft					
Casing - Driller		8.625 in		@ 432.0 ft		@	
Casing - Logger		432.0 ft					
Bit Size		7.875 in		@		@	
Type Fluid in Hole		Water Based Mud					
Density	Viscosity	9.00 g/cc		58.00 s/qt			
	Fluid Loss	10.50 pH		10.0 cpm			
Source of Sample		MUDPIT					
Rm @ Meas. Temperature		0.51 ohmm		@ 75.00 degF		@	
Rmf @ Meas. Temperature		0.47 ohmm		@ 75.00 degF		@	
Rmc @ Meas. Temperature		0.58 ohmm		@ 75.00 degF		@	
Source Rmf		MEAS		MEAS			
Rm @ BHT		0.35 ohmm		@ 111.0 degF		@	
Time Since Circulation		5.0 hr					
Time on Bottom		18-Oct-19 09:00					
Max. Rec. Temperature		111.00 degF		@ 3850.0 ft		@	
Equipment		12156883		EL RENO, OK			
Recorded By		JORGE ORLANDO PEREZ					
Witnessed By		JUSTIN CARTER					

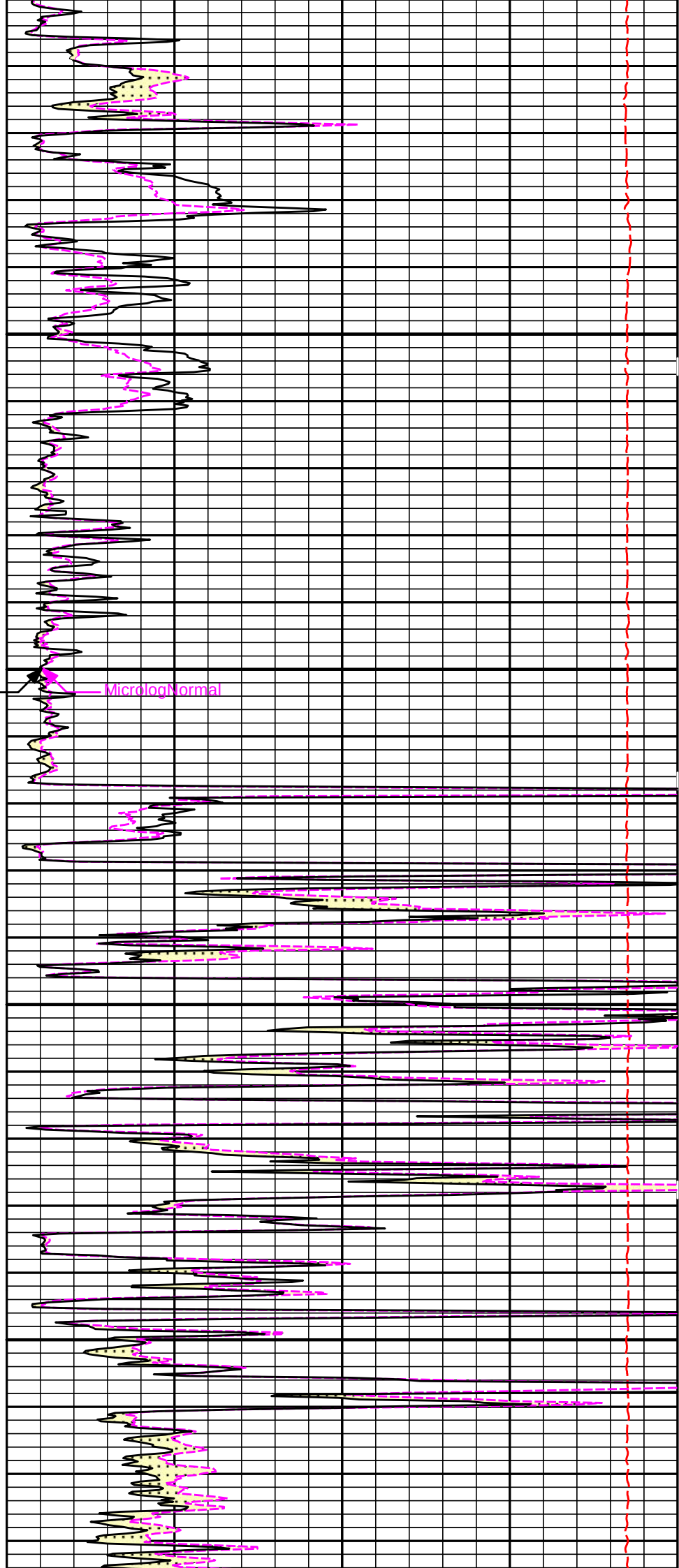
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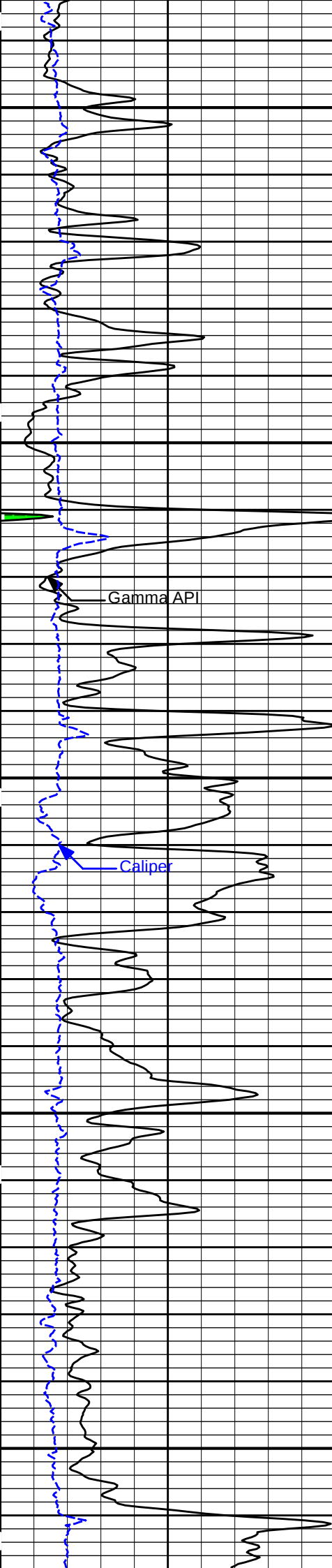
Service Ticket No.: 906051745						API No.: 15-185-24062-00-00						PGM Version: WL INSITE R6.2.7 (Build 7)															
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE												RESISTIVITY SCALE CHANGES															
Date		Sample No.										Type Log		Depth		Scale Up Hole			Scale Down Hole								
Depth-Driller																											
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-11830684													
Source Rmf		Rmc										S-11830728															
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.		11013113				Serial No.						Serial No.		10960494				Serial No.		11055304							
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.		5475GW				Serial No.		DSN-436							
Distance to Source		N/A				FWDA [Y/N]						Strength		1.78 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		CSC		BEC		0		150							20			10		2.71 gr/cc			20		10



3300

3400

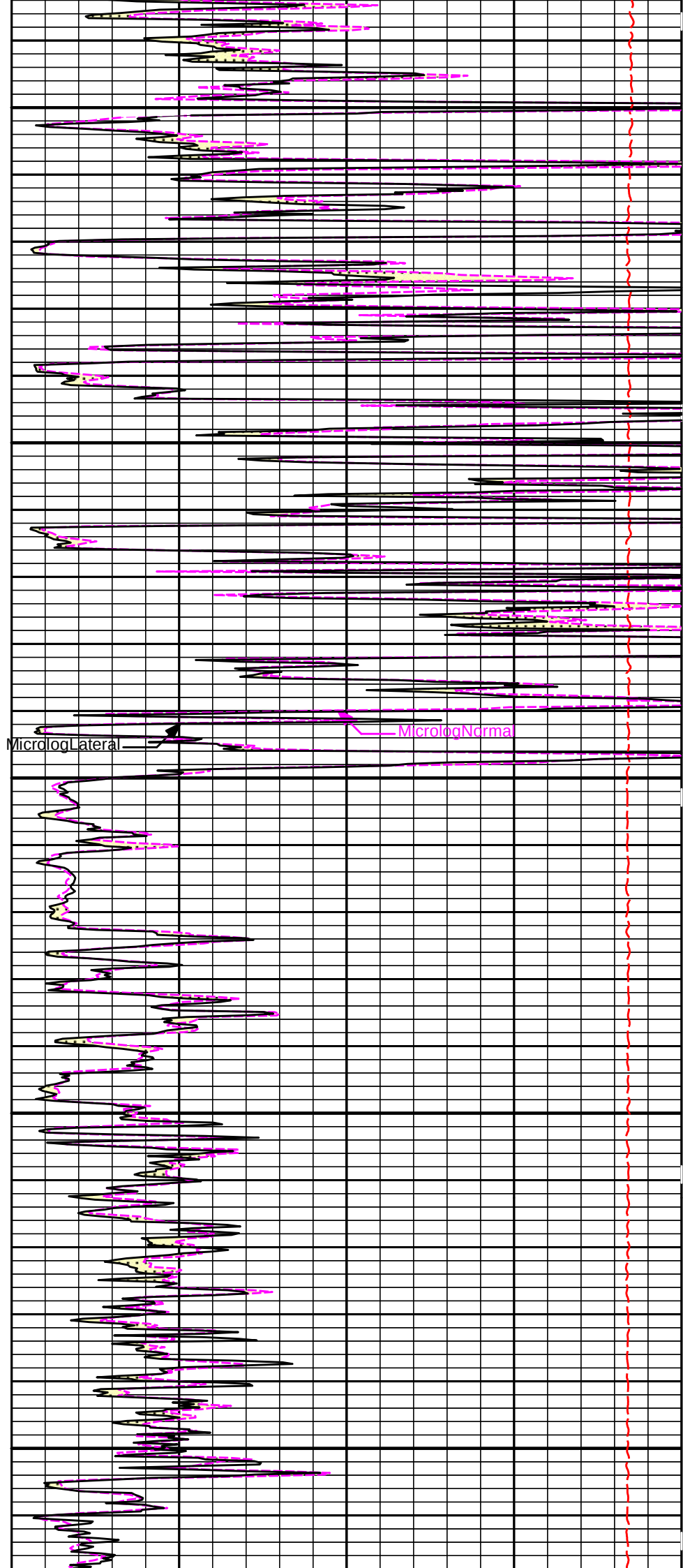


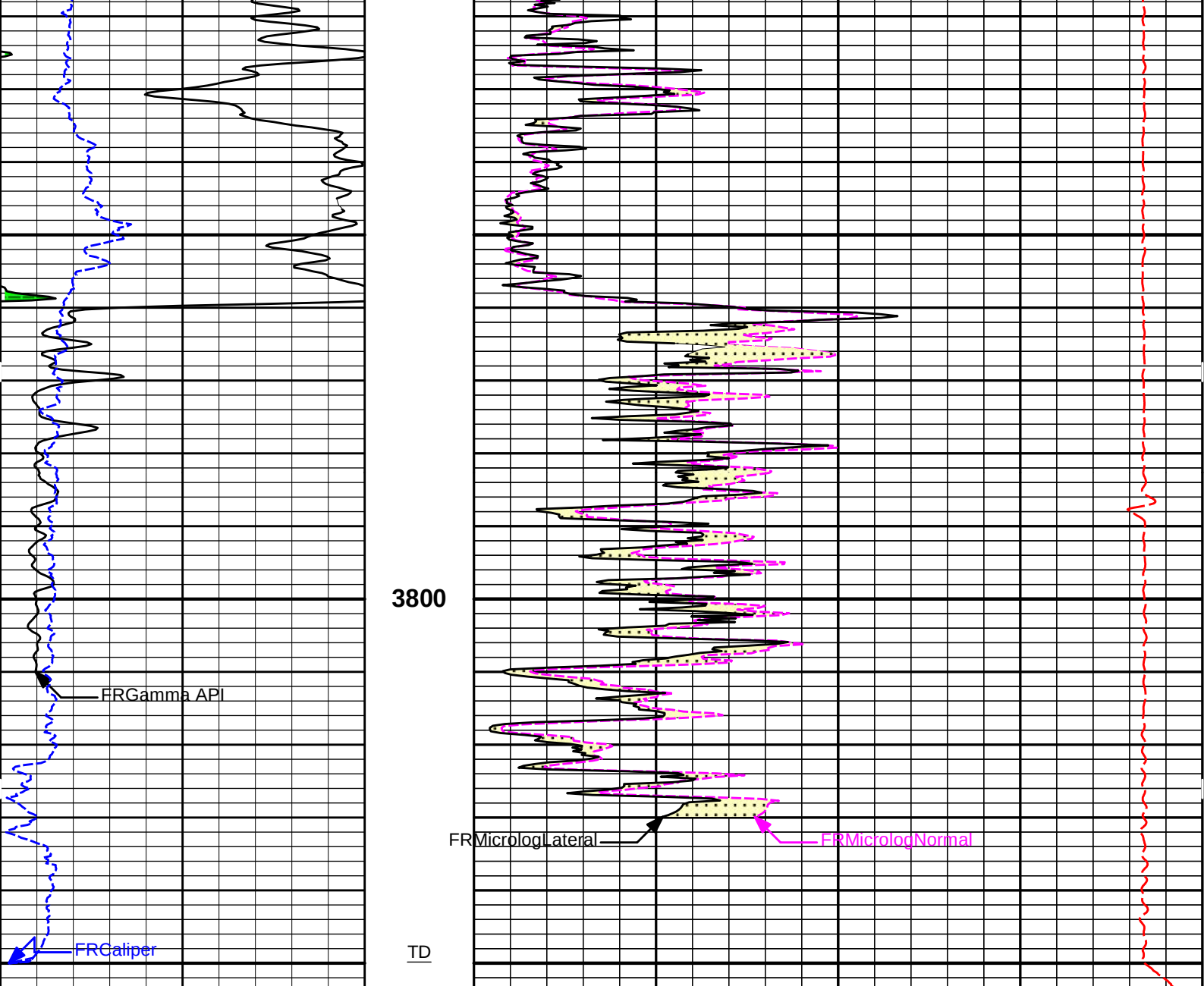


3500

3600

3700





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

HALLIBURTON

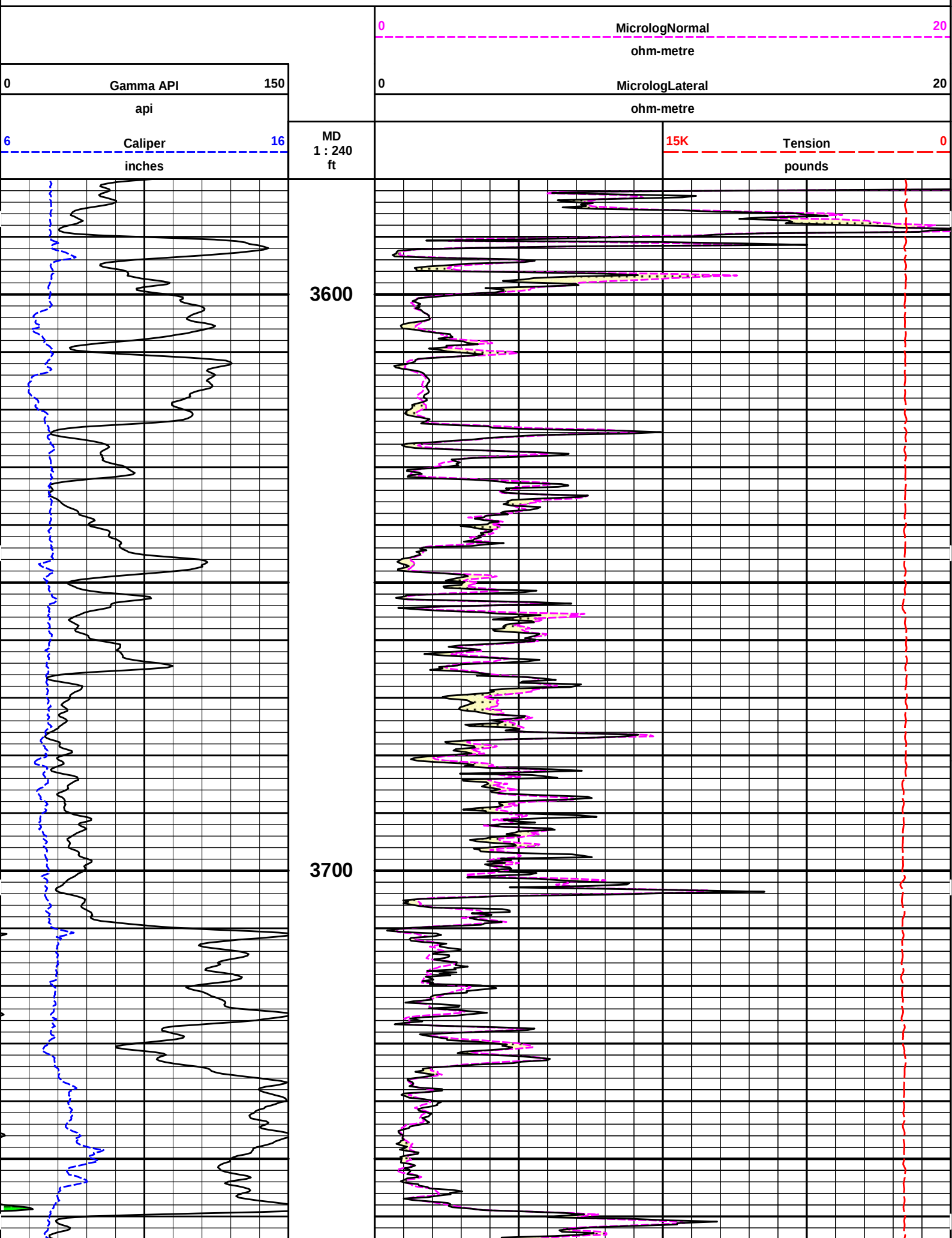
Plot Time: 18-Oct-19 11:19:07
Plot Range: 3195 ft to 3853.42 ft
Data: HALL-GATES_2-5\Well Based*\
Plot File: \\LOCAL-HALL-GATES_2-5\Well Based\MICROLOG\Microlog_IQ_5_main_lib

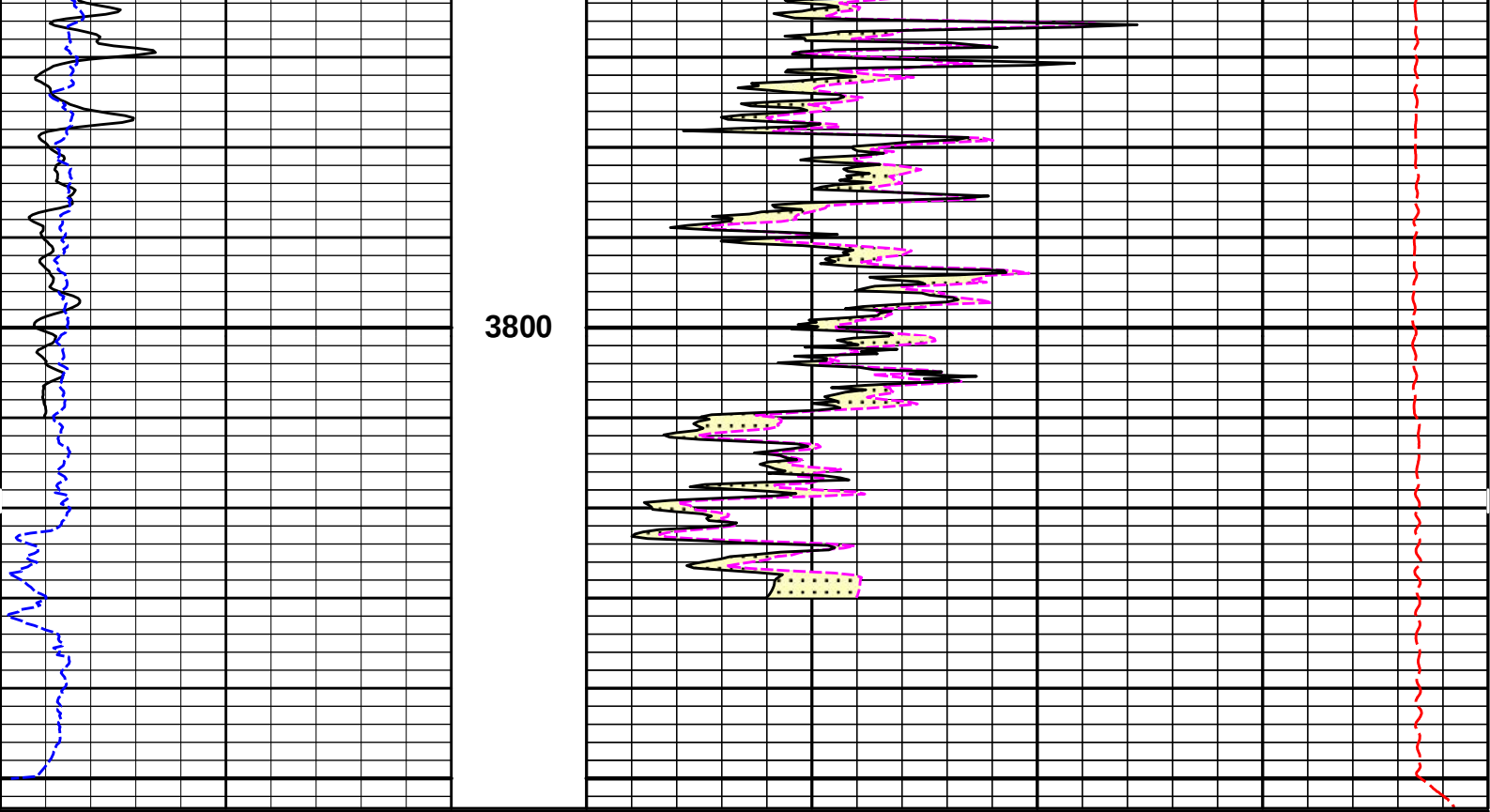
5 INCH MAIN LOG

MEASURED DEPTH
MAIN LOG 5" PER 100'

HALLIBURTON

Plot Time: 18-Oct-19 11:19:07
Plot Range: 3580 ft to 3853.33 ft
Data: HALL-GATES_2-5\Well Based*\
Plot File: \\LOCAL-HALL-GATES_2-5\Well Based\MICROLOG\Microlog_IQ_5_main_lib





6Caliper16 inches		MD 1 : 240 ft		15KTension0 pounds
0Gamma API150 api				0MicrologLateral20 ohm-metre
		0MicrologNormal20 ohm-metre		

HALLIBURTON

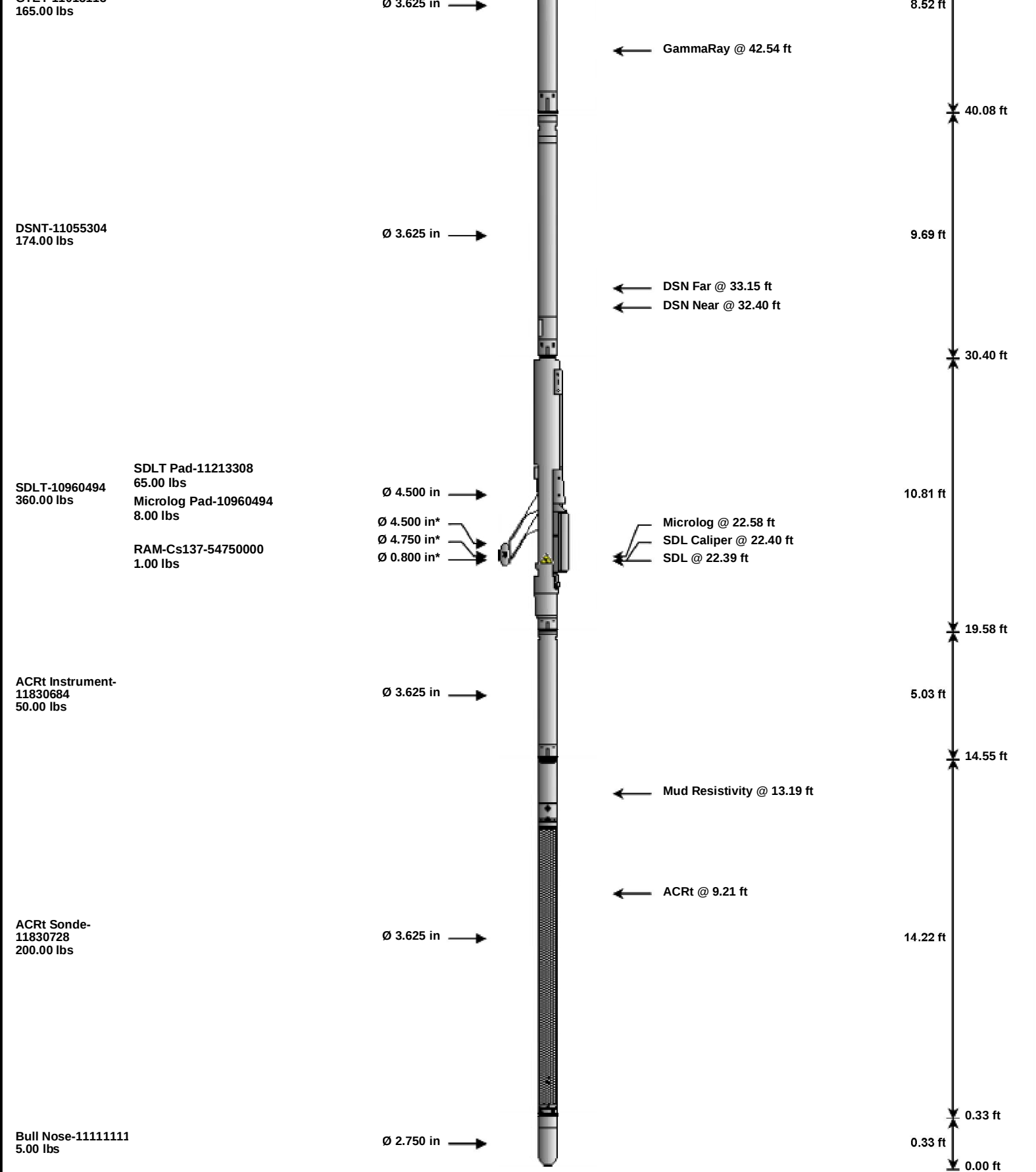
Plot Time: 18-Oct-19 11:19:09
Plot Range: 3580 ft to 3853.33 ft
Data: HALL-GATES_2-5\Well Based**
Plot File: \\-LOCAL-\\HALL-GATES_2-5\Well Based\MICROLOG\Microlog_IQ_5_rep_lib

REPEAT SECTION

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
RWCH-11830866 135.00 lbs	Weak Point Solid- 11111111 0.01 lbs	Ø 2.310 in →		← Fishing Neck @ 57.71 ft		58.59 ft
		Ø 3.625 in →		← Load Cell @ 54.91 ft ← BH Temperature @ 54.34 ft	6.25 ft	
		Ø 0.010 in* →				52.34 ft
SP Sub-11812437 60.00 lbs		Ø 3.625 in →		← SP @ 50.56 ft	3.74 ft	
				← Z-Accelerometer @ 48.15 ft		48.60 ft
GTFT-11013113		Ø 2.310 in →				0.50 ft



Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
RWCH	Releasable Wireline Cable Head	11830866	135.00	6.25	52.34	300.00
WPSS	Weak Point Solid	11111111	0.01	0.01	* 52.34	300.00
SP	SP Sub	11812437	60.00	3.74	48.60	300.00
GTET	Gamma Telemetry Tool	11013113	165.00	8.52	40.08	60.00
DSNT	Dual Spaced Neutron	11055304	174.00	9.69	30.40	60.00
SDLT	Spectral Density Tool	10960494	360.00	10.81	19.58	60.00
SDLP	Density Insite Pad	11213308	65.00	2.55	* 21.79	60.00
Cs137	Logging Source, SDLT-I, 1.78 Ci - Cs137	54750000	1.00	0.80	* 22.02	300.00
MICP	Microlog Pad	10960494	8.00	1.00	* 22.08	60.00
ACRt	Array Compensated True Resistivity Instrument Section	11830684	50.00	5.03	14.55	120.00
ACRt	Array Compensated True Resistivity Sonde Section	11830728	200.00	14.22	0.33	120.00
BN NS	Bull Nose	11111111	5.00	0.33	0.00	300.00

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	9.000	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	CSTR	Compressive Strength	1000.00	psia
	SHARED	ST	Surface Temperature	75.0	degF
	SHARED	TD	Total Well Depth	10000.00	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	CBM Temperature Master Tool	GTET	
	SHARED	MSAL	Water-base mud filtrate salinity	0.00	ppm
	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	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	DDSC	DSN Depth 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	UCLA	Classic Neutron Parameter utilized?	No	
DSNT	BHSM	Borehole Size Source Tool	SDLT	
SDLT	CLOK	Process Caliper Outputs?	Yes	
Microlog Pad	MLOK	Process MicroLog 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	
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	RMAX	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	

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:GTET - 11013113

Reference Calibration Date:28-Jun-19 15:56:38

Engineer:WOLTEMATH

Calibration Date:06-Sep-19 13:50:19

Software Version:WL INSITE R6.2.7 (Build 7)

Calibration Version:1

Calibrator Source S/N: TB79

Calibrator API Reference:222.00 api

Equivalent Calibrator API Reference:225.9 api

Measurement	Measured	Calibrated	Units
Background	24.7	24.0	api
Background + Calibrator	257.5	249.9	api
Calibrator	232.8	225.9	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name:GTET - 11013113

Reference Calibration Date:06-Sep-19 13:50:19

Engineer:WHITLOCK

Calibration Date:14-Oct-19 13:05:41

Software Version:WL INSITE R6.2.7 (Build 7)

Calibration Version:1

Calibrator Source S/N: TB79

Calibrator API Reference:222.00 api

Equivalent Calibrator API Reference:225.9 api

Field Verification	Shop	Field	Units
Background	24.0	28.0	api

Background	24.0	28.0	api
Background + Calibrator	249.9	251.5	api
Calibrator	225.9	223.5	api

Shop	Field	Difference	Tolerance
225.9	223.5	2.4	+/- 9.00

DENSITY CALIPER SHOP CALIBRATION

Tool Name:	SDLT - 10960494	Reference Calibration Date:	29-Aug-19 11:58:26
Engineer:	JORGE ORLANDO PEREZ	Calibration Date:	29-Aug-19 12:02:40
Software Version:	WL INSITE R6.2.7 (Build 7)	Calibration Version:	1
Host Tool Name:	DSNT - 11055304		

CALIBRATION COEFFICIENTS			
Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-4629.26	-4620.65	-7000.00 - -1000.00
Pad Gain	0.0003912	0.0003918	0.0002000 - 0.0006000
Arm Offset	-2765.11	-2629.08	-5000.00 - 3000.00
Arm Gain	0.0005207	0.0005090	0.000300 - 0.000700
Arm Power	-0.000004618	-0.000003925	-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)	1.99	2.00	0.01	+/- 0.20
Medium Ring (in)	3.74	3.75	0.01	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.47	6.50	0.03	+/- 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 - 10960494	Reference Calibration Date:	29-Aug-19 12:02:40
Engineer:	JORGE ORLANDO PEREZ	Calibration Date:	29-Aug-19 12:04:14
Software Version:	WL INSITE R6.2.7 (Build 7)	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	8.21	-0.04	+/- 0.15

PASS/FAIL SUMMARY	
Pad Extension Check:	Passed
Diameter Check:	Passed

MICRO LOG SHOP CALIBRATION

Tool Name:	Microlog Pad - 10960494	Reference Calibration Date:	29-Aug-19 12:14:09
Engineer:	WHITLOCK	Calibration Date:	15-Oct-19 15:15:10

Software Version: WL INSITE R6.2.7 (Build 7)				Calibration Version: 1		
Host Tool Name: DSNT - 11055304						
	CALIBRATION COEFFICIENT SUMMARY					
	Measurement	Micro Log Normal		Micro Log Lateral		
		Measured	Calibrated	Measured	Calibrated	Units
	Tool Zero	-0.11	-0.11	-0.02	-0.01	
	Calibration Point #1	-0.01	0.00	-0.01	0.00	ohmm
	Calibration Point #2	20.40	20.00	19.65	20.00	ohmm
	Internal Reference	20.27	19.88	19.63	19.98	ohmm
	Measurement	Micro Log Normal Tool Value		Micro Log Lateral Tool Value		Units
	Tool Zero					V
	Calibration Point #1					V
	Calibration Point #2					V
	Internal Reference					V
	MICRO LOG FIELD CHECK					
	Tool Name: Microlog Pad - 10960494		Reference Calibration Date: 15-Oct-19 15:15:10			
Engineer: WHITLOCK		Calibration Date: 15-Oct-19 15:15:47				
Software Version: WL INSITE R6.2.7 (Build 7)		Calibration Version: 1				
	Measurement	Micro Log Normal		Micro Log Lateral		Units
		Shop	Field	Shop	Field	
	Tool Zero	-0.11	-0.09	-0.01	-0.01	ohmm
	Internal Reference	19.88	19.88	19.98	19.99	ohmm
	Summary					
	Signal	Shop	Field	Difference	Tolerance	
	Microlog Normal	19.88	19.88	0.00	+/- 0.80	
	Microlog Lateral	19.98	19.99	-0.01	+/- 0.80	
	CALIBRATION SUMMARY					
	Sensor	Shop	Field	Post	Difference	Tolerance
GTET-11013113						
Gamma Ray Calibrator	225.9	223.5	-----	2.4	+/- 9.00	api
SDLT-10960494						
Pad Extension	3.75	3.75	-----	0.00	+/-0.10	in
Ring Diameter	8.25	8.21	-----	0.04	+/-0.15	in
Microlog Pad-10960494						
MicroLog Normal	19.88	19.88	-----	0.00	+/-0.80	ohmm
MicroLog Lateral	19.98	19.99	-----	-0.01	+/-0.80	ohmm
Data: HALL-GATES_2-5I0001 GTET-DSN-SDL-ACRT_DRIVERS\IDLE				Date: 18-Oct-19 08:11:56		

HALLIBURTON

INPUTS, DELAYS AND FILTERS TABLE

Mnemonic		Input Description	Delay (ft)	Depth Filter Type	Depth Filter Length (ft)	Time Filter Type	Time Filter Length (sec)
Depth Panel							
TENS	Tension		0.00	NO		NO	
Rwa / CrossPlot							
TPUL	Tension Pull		58.59	NO		NO	
BS	Bit Size		58.59	NO		NO	

Bit Size		58.55	NO	NO
HDIA	Measured Hole Diameter	0.00	NO	NO
RWCH				
DHTN	DownholeTension	0.00	BLK	0.000 NO
SP Sub				
PLTC	Plot Control Mask	50.56	NO	NO
SP	Spontaneous Potential	50.56	BLK	1.250 NO
SPR	Raw Spontaneous Potential	50.56	NO	NO
SPO	Spontaneous Potential Offset	50.56	NO	NO
GTET				
TPUL	Tension Pull	42.54	NO	NO
GR	Natural Gamma Ray API	42.54	TRI	1.750 NO
GRU	Unfiltered Natural Gamma Ray API	42.54	NO	NO
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	42.54	W	1.416 , 0.750 NO
HDIA	Measured Hole Diameter	0.00	NO	NO
ACCZ	Accelerometer Z	0.00	BLK	0.083 NO
DEVI	Inclination	0.00	NO	NO
DSNT				
TPUL	Tension Pull	32.30	NO	NO
RNDS	Near Detector Telemetry Counts	32.40	BLK	1.417 NO
RFDS	Far Detector Telemetry Counts	33.15	TRI	0.583 NO
DNTT	DSN Tool Temperature	32.40	NO	NO
DSNS	DSN Tool Status	32.30	NO	NO
ERND	Near Detector Telemetry Counts EVR	32.40	BLK	0.000 NO
ERFD	Far Detector Telemetry Counts EVR	33.15	BLK	0.000 NO
ENTM	DSN Tool Temperature EVR	32.40	NO	NO
HDIA	Measured Hole Diameter	0.00	NO	NO
SDLT				
TPUL	Tension Pull	22.40	NO	NO
PCAL	Pad Caliper	22.40	TRI	0.250 NO
ACAL	Arm Caliper	22.40	TRI	0.250 NO
ACRt Sonde				
TPUL	Tension Pull	2.73	NO	NO
F1R1	ACRT 12KHz - 80in R value	8.98	BLK	0.000 NO
F1X1	ACRT 12KHz - 80in X value	8.98	BLK	0.000 NO
F1R2	ACRT 12KHz - 50in R value	6.48	BLK	0.000 NO
F1X2	ACRT 12KHz - 50in X value	6.48	BLK	0.000 NO
F1R3	ACRT 12KHz - 29in R value	4.98	BLK	0.000 NO
F1X3	ACRT 12KHz - 29in X value	4.98	BLK	0.000 NO
F1R4	ACRT 12KHz - 17in R value	3.98	BLK	0.000 NO
F1X4	ACRT 12KHz - 17in X value	3.98	BLK	0.000 NO
F1R5	ACRT 12KHz - 10in R value	3.48	BLK	0.000 NO
F1X5	ACRT 12KHz - 10in X value	3.48	BLK	0.000 NO
F1R6	ACRT 12KHz - 6in R value	3.23	BLK	0.000 NO
F1X6	ACRT 12KHz - 6in X value	3.23	BLK	0.000 NO
F2R1	ACRT 36KHz - 80in R value	8.98	BLK	0.000 NO
F2X1	ACRT 36KHz - 80in X value	8.98	BLK	0.000 NO
F2R2	ACRT 36KHz - 50in R value	6.48	BLK	0.000 NO
F2X2	ACRT 36KHz - 50in X value	6.48	BLK	0.000 NO
F2R3	ACRT 36KHz - 29in R value	4.98	BLK	0.000 NO
F2X3	ACRT 36KHz - 29in X value	4.98	BLK	0.000 NO
F2R4	ACRT 36KHz - 17in R value	3.98	BLK	0.000 NO
F2X4	ACRT 36KHz - 17in X value	3.98	BLK	0.000 NO
F2R5	ACRT 36KHz - 10in R value	3.48	BLK	0.000 NO
F2X5	ACRT 36KHz - 10in X value	3.48	BLK	0.000 NO

F2R6	ACRT 36KHz - 6in R value	3.23	BLK	0.000	NO
F2X6	ACRT 36KHz - 6in X value	3.23	BLK	0.000	NO
F3R1	ACRT 72KHz - 80in R value	8.98	BLK	0.000	NO
F3X1	ACRT 72KHz - 80in X value	8.98	BLK	0.000	NO
F3R2	ACRT 72KHz - 50in R value	6.48	BLK	0.000	NO
F3X2	ACRT 72KHz - 50in X value	6.48	BLK	0.000	NO
F3R3	ACRT 72KHz - 29in R value	4.98	BLK	0.000	NO
F3X3	ACRT 72KHz - 29in X value	4.98	BLK	0.000	NO
F3R4	ACRT 72KHz - 17in R value	3.98	BLK	0.000	NO
F3X4	ACRT 72KHz - 17in X value	3.98	BLK	0.000	NO
F3R5	ACRT 72KHz - 10in R value	3.48	BLK	0.000	NO
F3X5	ACRT 72KHz - 10in X value	3.48	BLK	0.000	NO
F3R6	ACRT 72KHz - 6in R value	3.23	BLK	0.000	NO
F3X6	ACRT 72KHz - 6in X value	3.23	BLK	0.000	NO
RMUD	Mud Resistivity	12.52	BLK	0.000	NO
F1RT	Transmitter Reference 12 KHz Real Signal	2.73	BLK	0.000	NO
F1XT	Transmitter Reference 12 KHz Imaginary Signal	2.73	BLK	0.000	NO
F2RT	Transmitter Reference 36 KHz Real Signal	2.73	BLK	0.000	NO
F2XT	Transmitter Reference 36 KHz Imaginary Signal	2.73	BLK	0.000	NO
F3RT	Transmitter Reference 72 KHz Real Signal	2.73	BLK	0.000	NO
F3XT	Transmitter Reference 72 KHz Imaginary Signal	2.73	BLK	0.000	NO
TFPU	Upper Feedpipe Temperature Calculated	2.73	BLK	0.000	NO
TFPL	Lower Feedpipe Temperature Calculated	2.73	BLK	0.000	NO
ITMP	Instrument Temperature	2.73	BLK	0.000	NO
TCVA	Temperature Correction Values Loop Off	2.73	NO		NO
TIDV	Instrument Temperature Derivative	2.73	NO		NO
TUDV	Upper Temperature Derivative	2.73	NO		NO
TLDV	Lower Temperature Derivative	2.73	NO		NO
TRBD	Receiver Board Temperature	2.73	NO		NO
HDIA	Measured Hole Diameter	0.00	NO		NO
Microlog Pad					
TPUL	Tension Pull	22.58	NO		NO
MINV	Microlog Lateral	22.58	BLK	0.750	NO
MNOR	Microlog Normal	22.58	BLK	0.750	NO
SDLT Pad					
TPUL	Tension Pull	22.39	NO		NO
NAB	Near Above	22.21	BLK	0.920	NO
NHI	Near Cesium High	22.21	BLK	0.920	NO
NLO	Near Cesium Low	22.21	BLK	0.920	NO
NVA	Near Valley	22.21	BLK	0.920	NO
NBA	Near Barite	22.21	BLK	0.920	NO
NDE	Near Density	22.21	BLK	0.920	NO
NPK	Near Peak	22.21	BLK	0.920	NO
NLI	Near Lithology	22.21	BLK	0.920	NO
NBAU	Near Barite Unfiltered	22.21	BLK	0.250	NO
NLIU	Near Lithology Unfiltered	22.21	BLK	0.250	NO
FAB	Far Above	22.56	BLK	0.250	NO
FHI	Far Cesium High	22.56	BLK	0.250	NO
FLO	Far Cesium Low	22.56	BLK	0.250	NO
FVA	Far Valley	22.56	BLK	0.250	NO
FBA	Far Barite	22.56	BLK	0.250	NO
FDE	Far Density	22.56	BLK	0.250	NO
FPK	Far Peak	22.56	BLK	0.250	NO
FLI	Far Lithology	22.56	BLK	0.250	NO
PTMP	Pad Temperature	22.40	BLK	0.920	NO
NHV	Near Detector High Voltage	21.79	NO		NO
FHV	Far Detector High Voltage	21.79	NO		NO

ITMP	Instrument Temperature	21.79	NO	NO
DDHV	Detector High Voltage	21.79	NO	NO
HDIA	Measured Hole Diameter	0.00	NO	NO
Data: HALL-GATES_2-510001 GTET-DSN-SDL-ACRT_DRIVERSIDLE				Date: 18-Oct-19 08:13:20

COMPANY	BIRD DOG OIL, LLC		
WELL	HALL-GATES 2-5		
FIELD	GATES		
COUNTY	STAFFORD	STATE	KANSAS
HALLIBURTON		MICROLOG	