

HALLIBURTON

MICROLOG

COMPANY		HARTMAN OIL CO., INC	
WELL		ROSE #5-1	
FIELD/BLOCK		AMERICAN BEAUTY	
COUNTY		WICHITA	
STATE		KANSAS	
Permanent Datum	GL	Sect. 1	Twp. 16S
Log measured from	KB		Rge. 35W
Drilling measured from	KB		Elev. 3078.0 ft
Date	02-Oct-16		13.0 ft above perm. Datum
Run No.	ONE		
Depth - Driller	4730.0 ft		
Depth - Logger	4726.0 ft		
Bottom - Logged Interval	4703.00 ft		
Top - Logged Interval	3700.00 ft		
Casing - Driller	8.625 in	@	368.0 ft
Casing - Logger	362.0 ft		
Bit Size	7.875 in	@	
Type Fluid in Hole	Water Based Mud		
Density	9.8 ppg		46.00 sl/qt
PH	10.00 pH		3.0 cphm
Source of Sample	MUD PIT		
Rm @ Meas. Temperature	0.75 ohmm	@	75.00 degF
Rmf @ Meas. Temperature	0.58 ohmm	@	75.00 degF
Rmc @ Meas. Temperature	0.91 ohmm	@	75.00 degF
Source Rmf	MEAS		MEAS
Rm @ BHT	0.52 ohmm	@	112.0 degF
Time Since Circulation	5.0 hr		
Time on Bottom	02-Oct-16 02:00		
Max. Rec. Temperature	112.00 degF	@	4725.0 ft
Equipment	11072142		EL RENO, OK
Recorded By	JORGE ORLANDO PEREZ		
Witnessed By	CHRIS PETERS		
Other Services:		DSNT/SDLT MICROLOG ACRT	

Fold here

Service Ticket No.: 903565062				API No.: 15-203-20310-00-00				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-11022962										
Source Rmf	Rmc				S-11005909										
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.	11048627		Serial No.			Serial No.	11019643		Serial No.	10950489					
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.	5168GW		Serial No.	DSN-424					
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	L	R	L	R			L	R			L	R	
ONE	TD	CSG	REC	0	150				30	10			30	10	LIME

ONE	TD	CSG	REC	0	150					30	-10	2.77 g/cc	30	-10	LIML
-----	----	-----	-----	---	-----	--	--	--	--	----	-----	-----------	----	-----	------

DIRECTIONAL INFORMATION

Maximum Deviation @ KOP @

Remarks: ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING

CHLORIDES REPORTED AT 6500 ppm

HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.

HALLIBURTON



Plot Time: 02-Oct-16 02:37:37

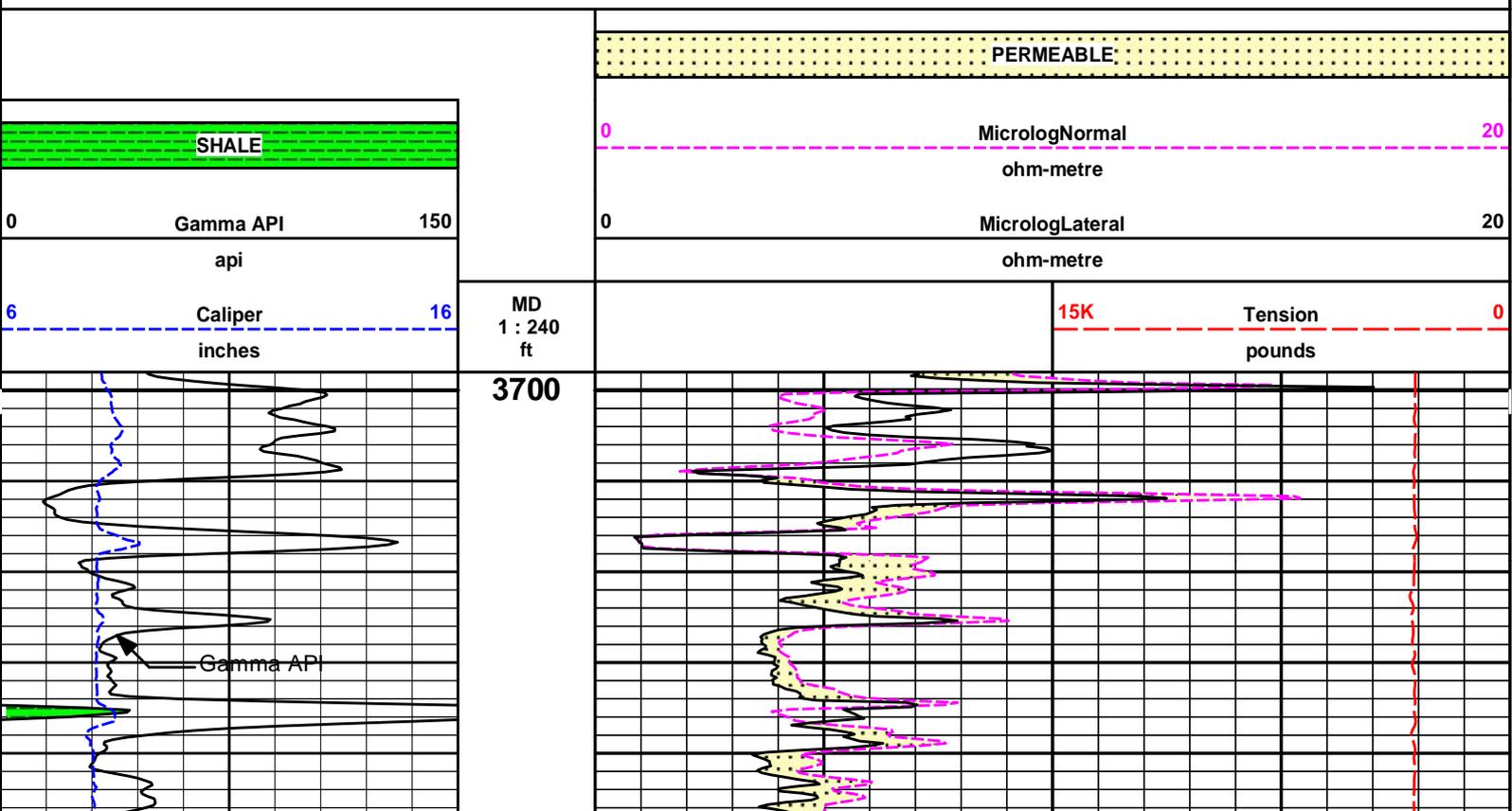
Plot Range: 3698 ft to 4730.5 ft

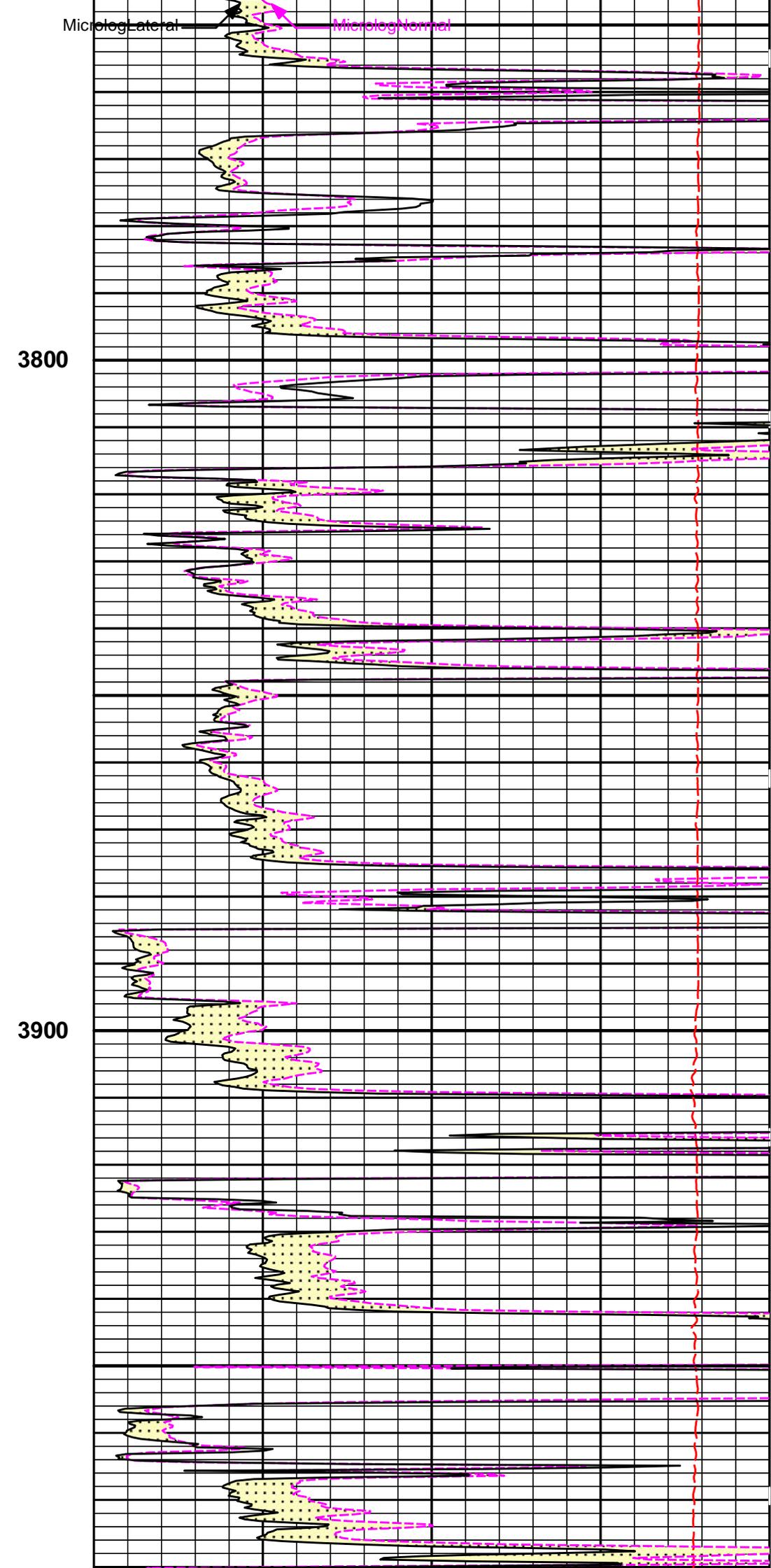
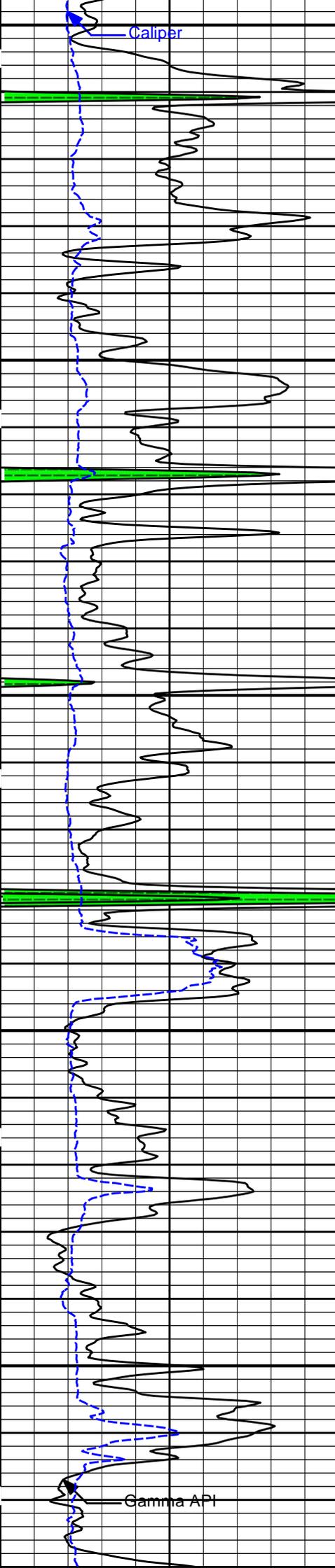
Data: ROSE_5-1\Well Based\DETAILS\

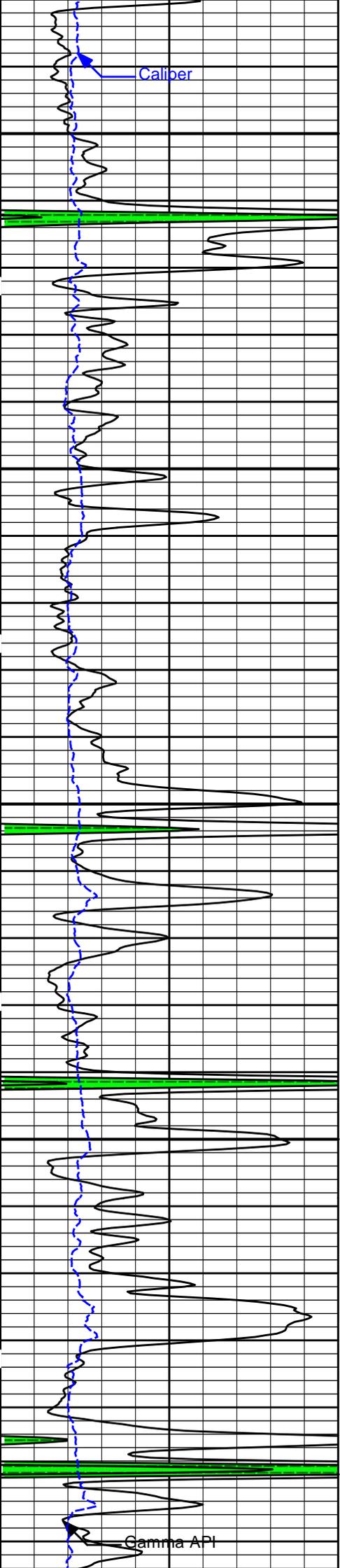
Plot File: \\-LOCAL-ROSE_5-1\Well Based\MICROLOG\Microlog_IQ_5_main_lib

5 INCH MAIN LOG

MEASURED DEPTH
MAIN LOG 5" PER 100'



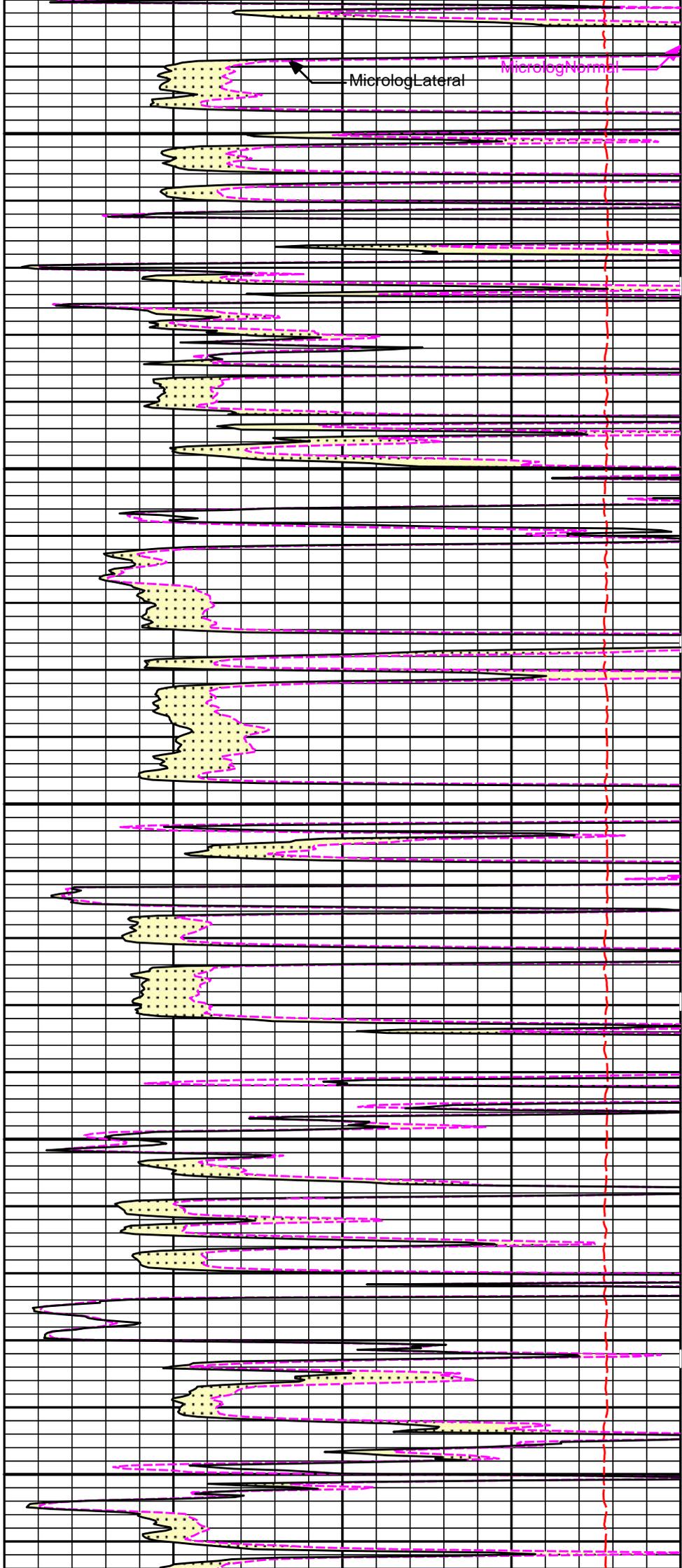


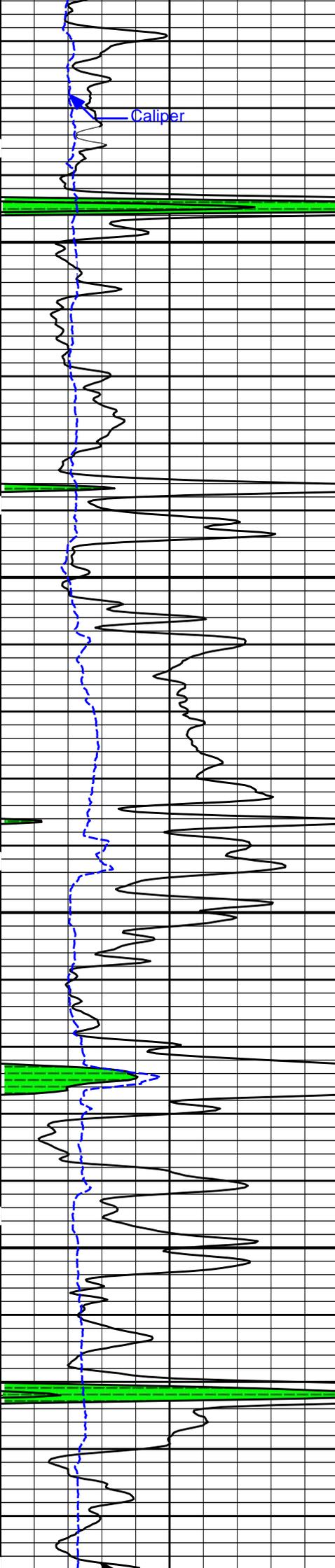


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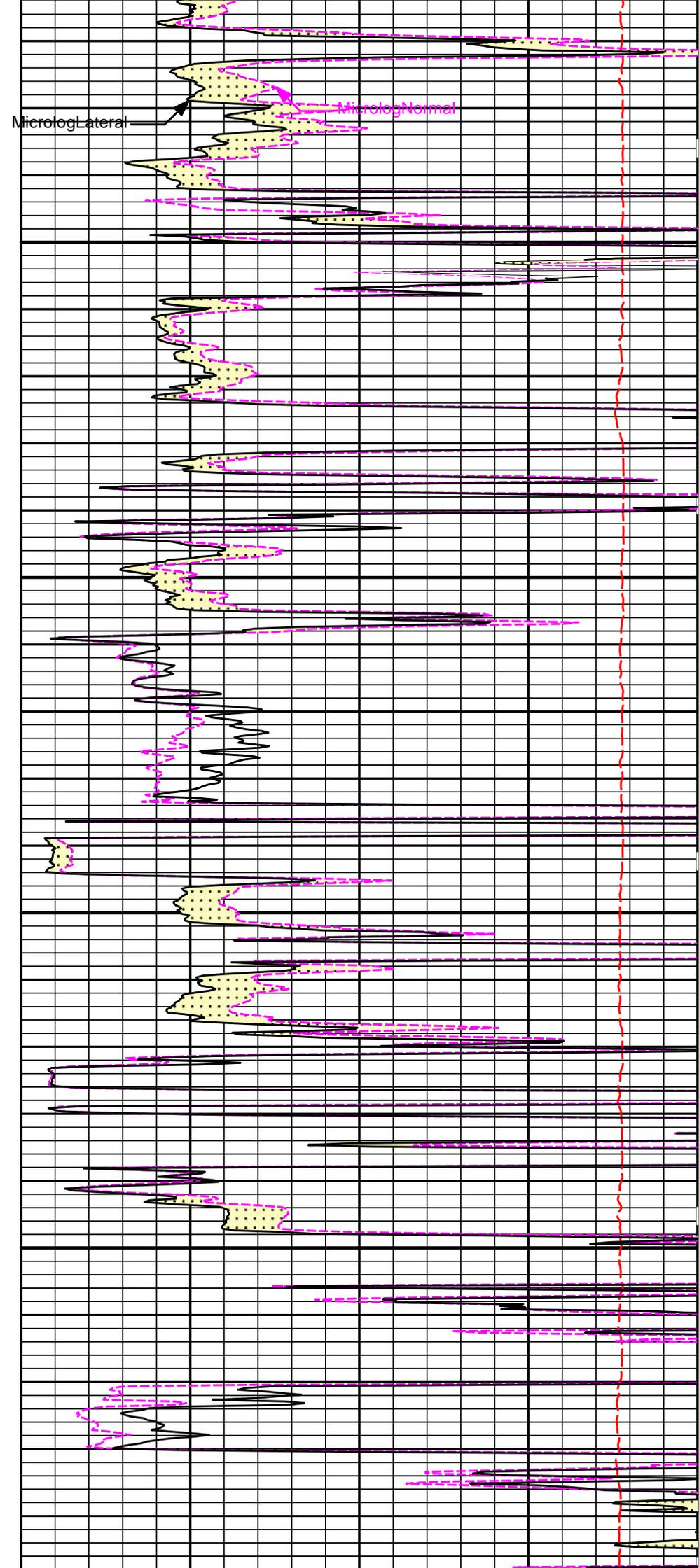
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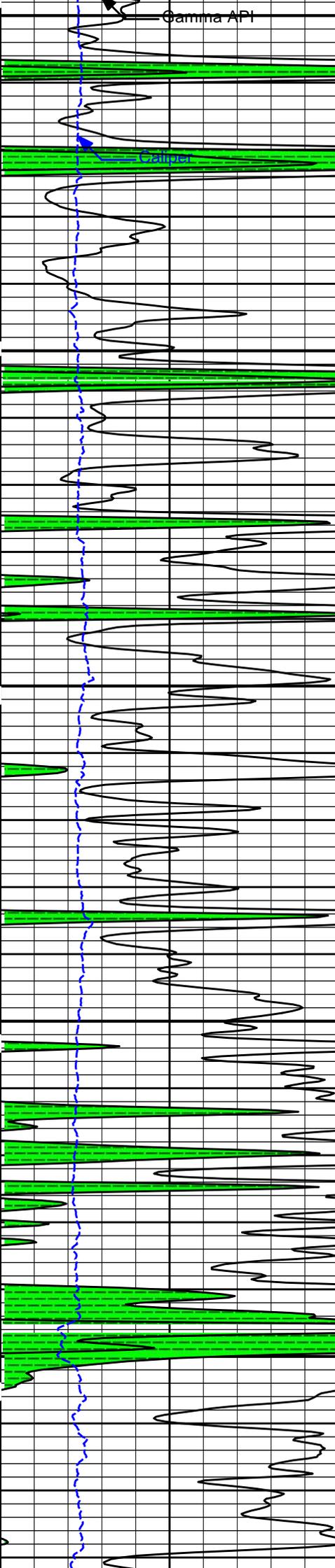




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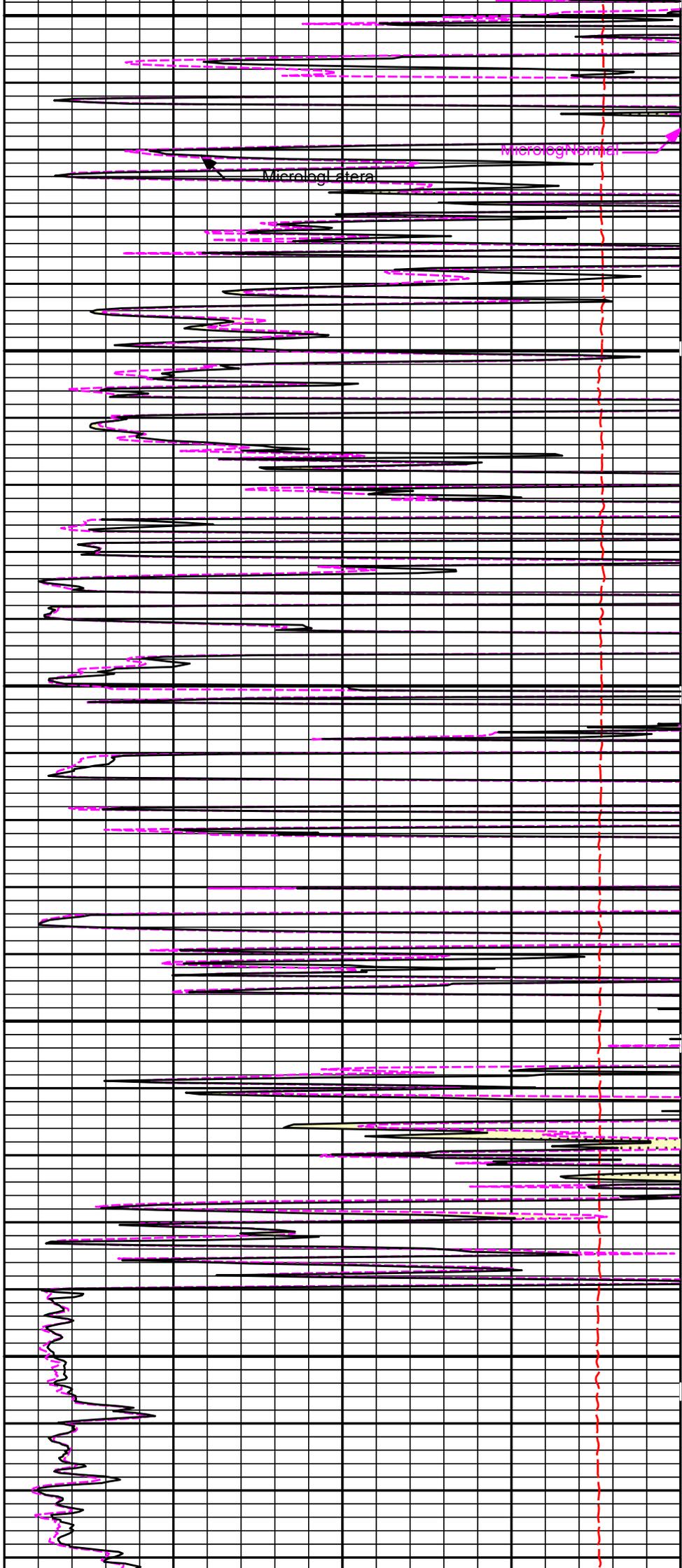
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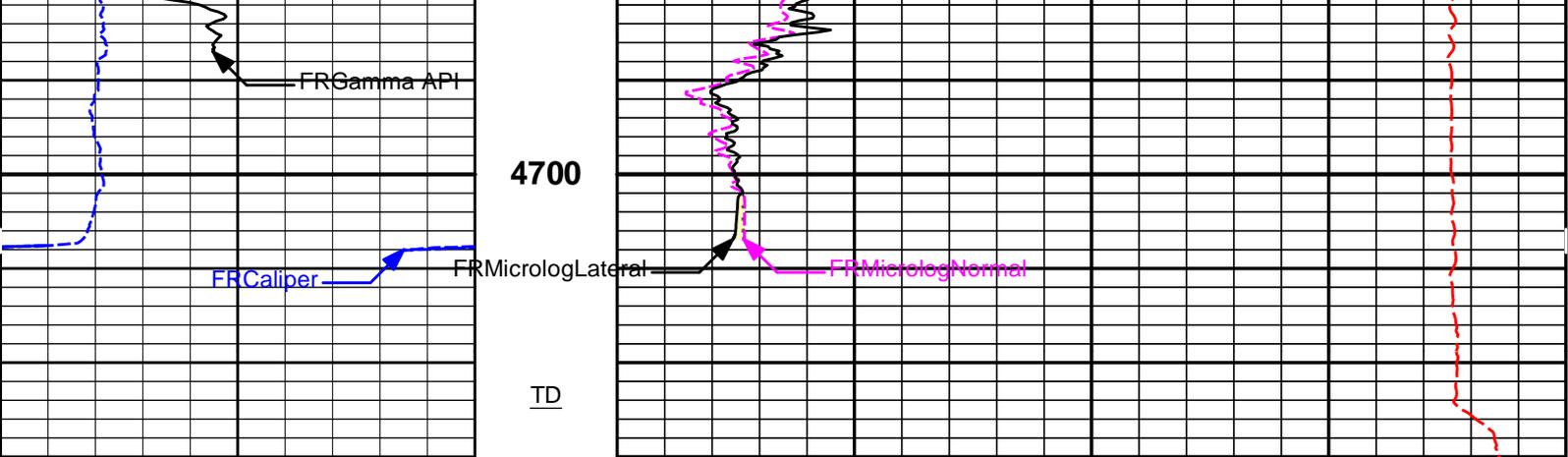




4500

4600





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

HALLIBURTON

Plot Time: 02-Oct-16 02:37:39
 Plot Range: 3698 ft to 4730.5 ft
 Data: ROSE_5-1\Well Based\DETAILS\
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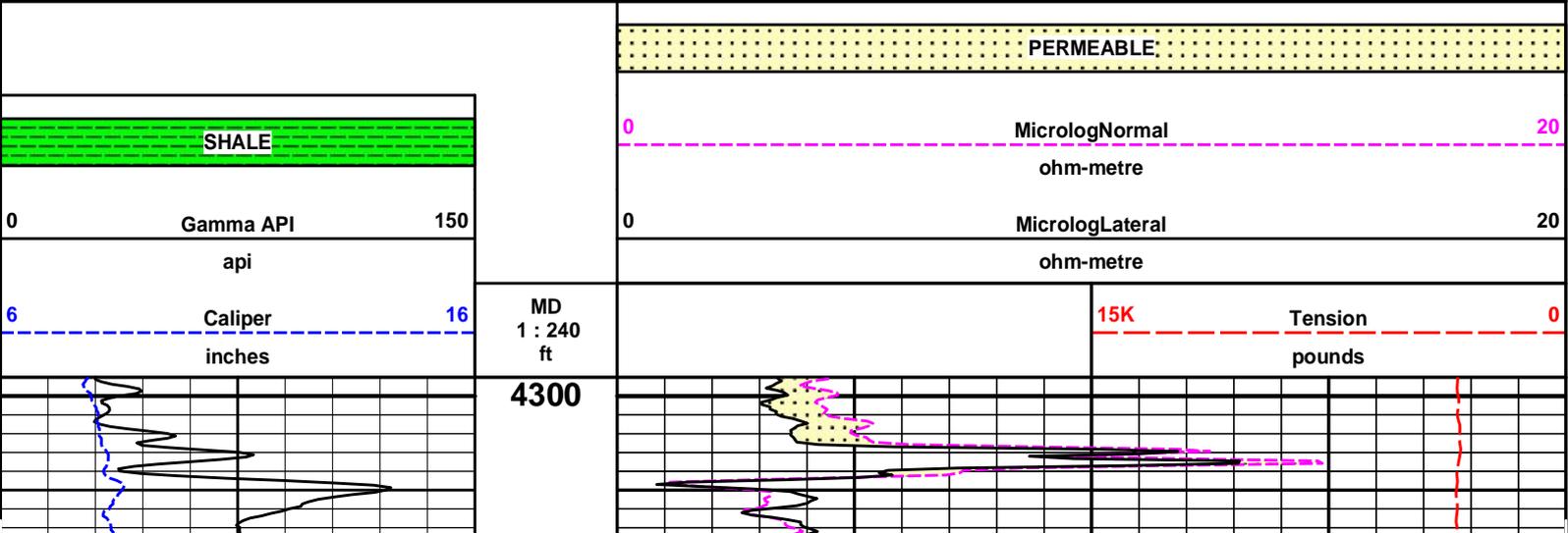
5 INCH MAIN LOG

MEASURED DEPTH
 MAIN LOG 5" PER 100'

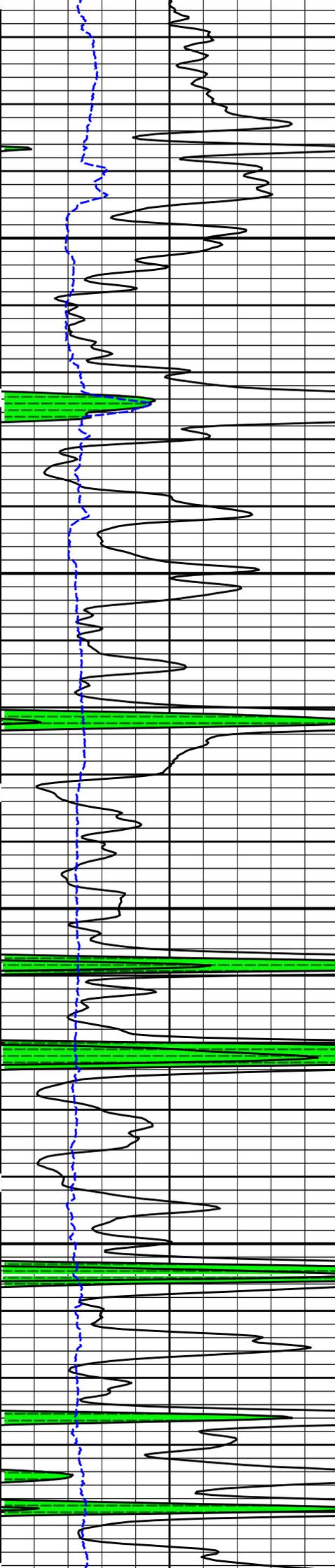
HALLIBURTON

Plot Time: 02-Oct-16 02:37:39
 Plot Range: 4298 ft to 4731.83 ft
 Data: ROSE_5-1\Well Based\REPEAT\
 Plot File: \\LOCAL-ROSE_5-1\Well Based\MICROLOG\Microlog_IQ_5_rep_lib

REPEAT SECTION

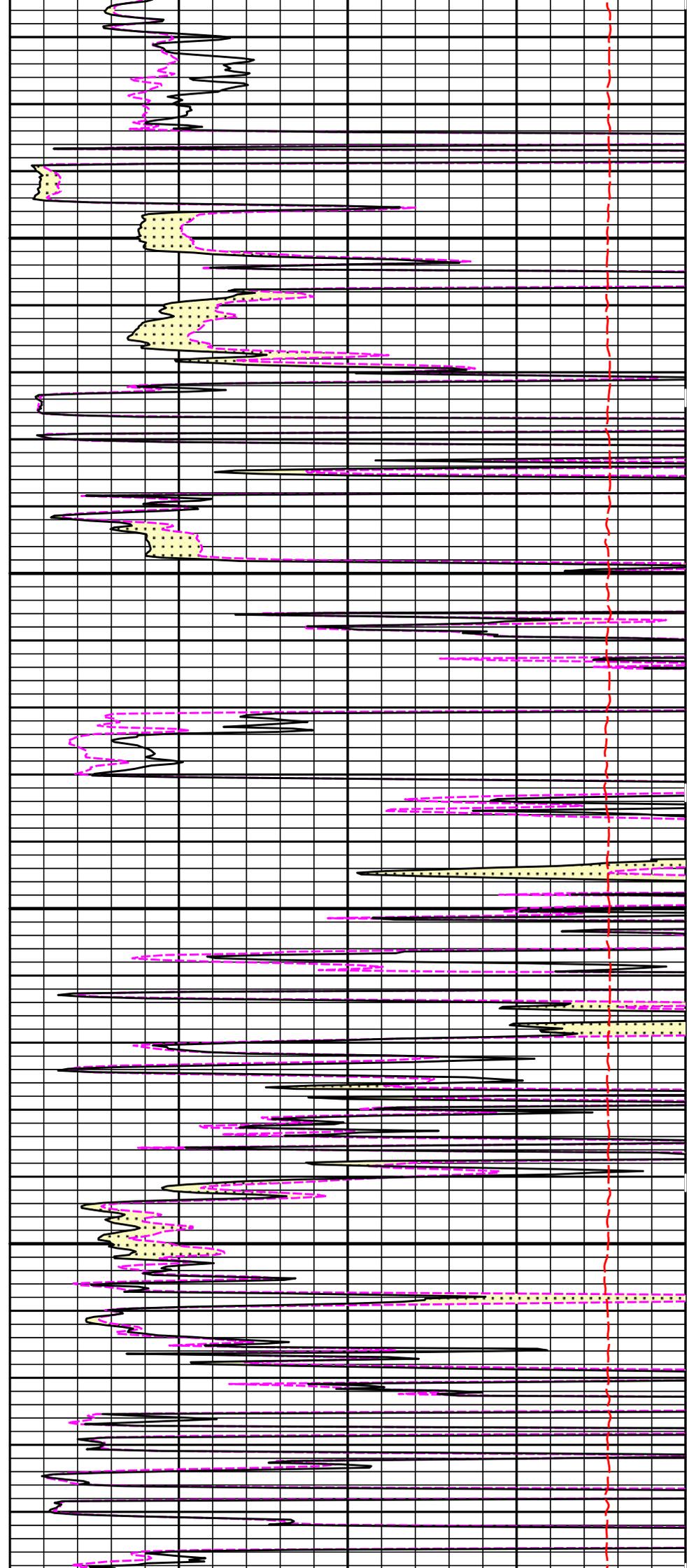


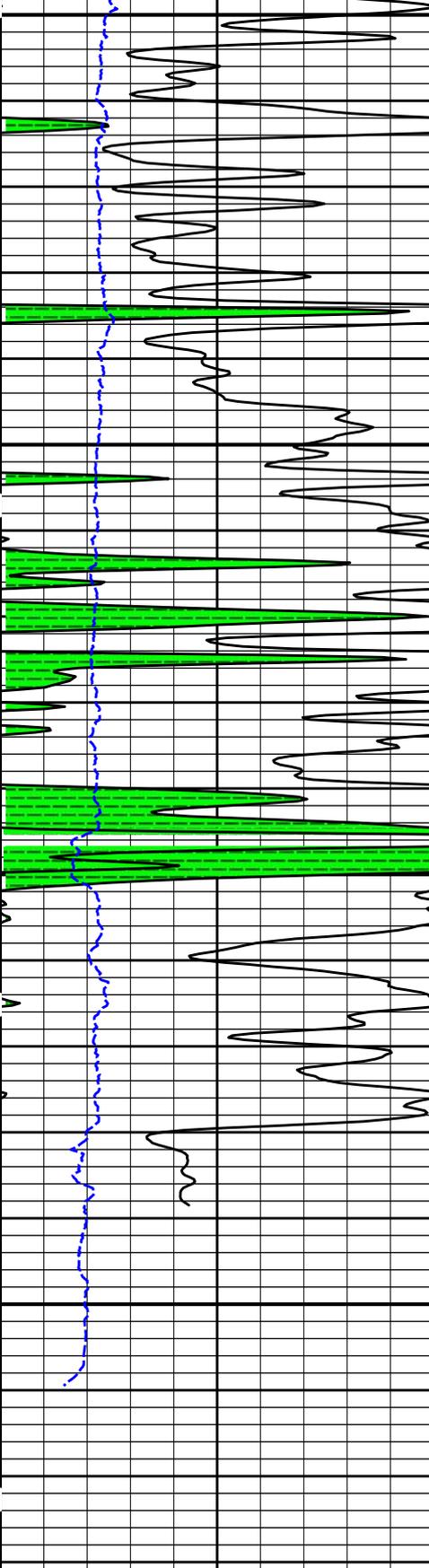
					PERMEABLE		
	SHALE			0	MicrologNormal		20
					ohm-metre		
0	Gamma API	150		0	MicrologLateral		20
	api				ohm-metre		
6	Caliper	16	MD		15K	Tension	0
	inches		1 : 240			pounds	



4400

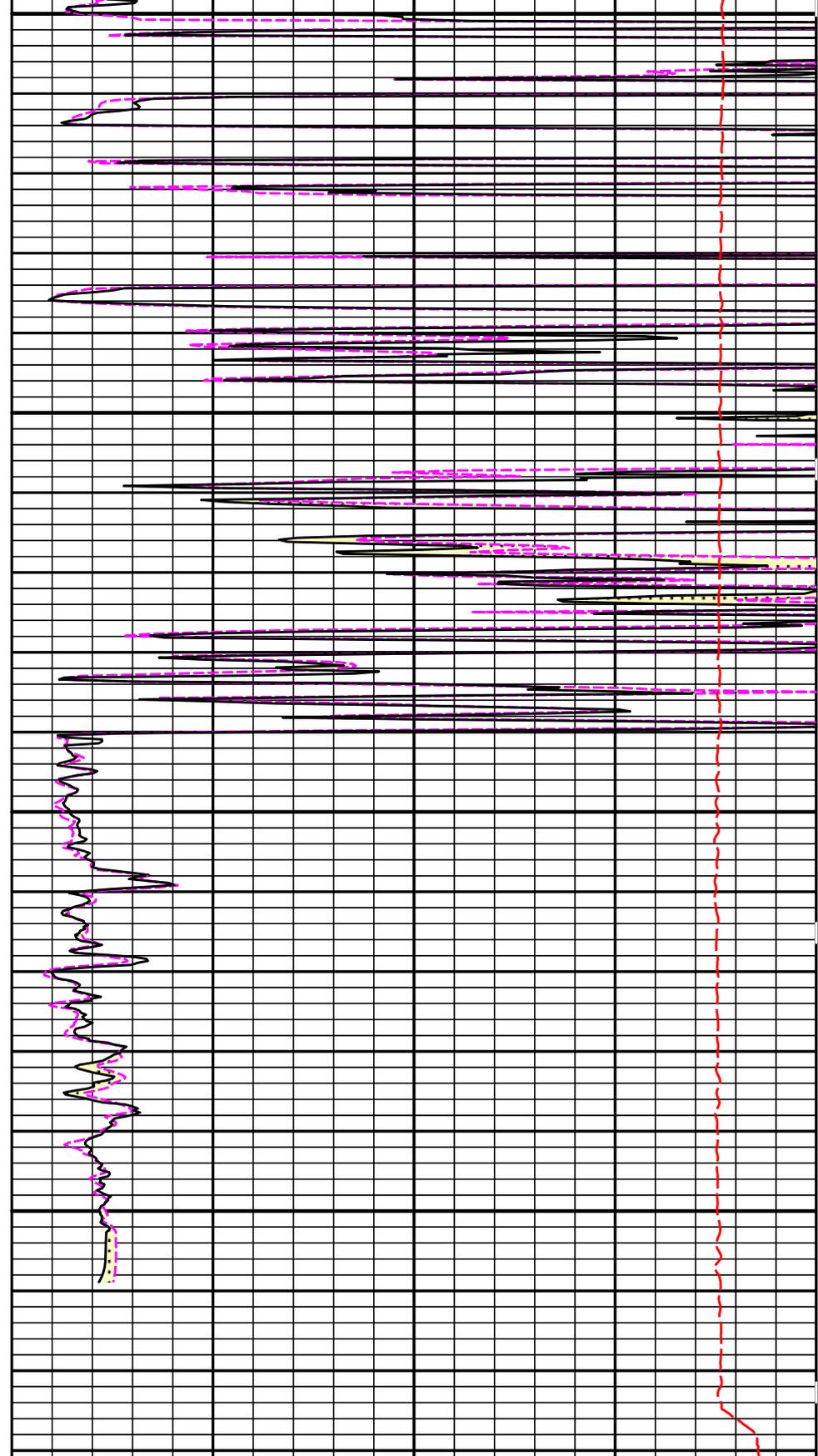
4500





4600

4700



6	Caliper inches	16
0	Gamma API api	150
SHALE		

MD
1 : 240
ft

15K Tension
pounds 0

0	MicrologLateral ohm-metre	20
0	MicrologNormal ohm-metre	20
PERMEABLE		

HALLIBURTON

Plot Time: 02-Oct-16 02:37:41
 Plot Range: 4298 ft to 4731.83 ft
 Data: ROSE 5-1\Well Based\REPEAT\

REPEAT SECTION

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
CH_HOS-0000025 37.50 lbs		Ø 2.750 in →		← Temperature @ 55.29 ft	3.03 ft	56.32 ft
XOHD-12345678 20.00 lbs		Ø 2.750 in → Ø 3.625 in →		← 0.95 ft	53.29 ft	
SP Sub-11441455 60.00 lbs		Ø 3.625 in →		← SP @ 50.56 ft	3.74 ft	52.34 ft
				← Z-Accelerometer @ 48.15 ft		48.60 ft
GTET-11048627 165.00 lbs		Ø 3.625 in →		← GammaRay @ 42.54 ft	8.52 ft	
						40.08 ft
DSNT-11019643 174.00 lbs	DSN Decentralizer-11019643 6.60 lbs	Ø 5.000 in* → Ø 3.625 in →		← DSN Far @ 33.15 ft ← DSN Near @ 32.40 ft	9.69 ft	
						30.40 ft
SDLT-10950489 360.00 lbs	SDLT Pad-10809130 65.00 lbs Microlog Pad-10950489 8.00 lbs	Ø 4.500 in → Ø 4.500 in* → Ø 4.750 in* →		← Microlog @ 22.58 ft ← SDL Caliper @ 22.40 ft ← SDL @ 22.39 ft	10.81 ft	
						19.58 ft
ACRt Instrument-11022962 50.00 lbs	Centralizer 25-12345679 8.00 lbs	Ø 4.000 in* → Ø 3.625 in →		5.03 ft		
			← Mud Resistivity @ 13.19 ft		14.55 ft	

ACRt Sonde-
11005909
200.00 lbs

Ø 3.625 in →

← ACRt @ 9.21 ft

14.22 ft

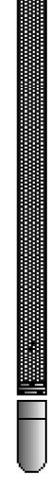
Bull Nose-12345678
5.00 lbs

Ø 2.750 in →

0.33 ft

0.33 ft

0.00 ft



Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
CH_HOS	Hostile Cable Head with Load Cell	00000025	37.50	3.03	53.29	300.00
XOHD	Hostile to Dits Cross Over	12345678	20.00	0.95	52.34	300.00
SP	SP Sub	11441455	60.00	3.74	48.60	300.00
GTET	Gamma Telemetry Tool	11048627	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	10950489	360.00	10.81	19.58	60.00
SDLP	Density Insite Pad	10809130	65.00	2.55 *	21.79	60.00
MICP	Microlog Pad	10950489	8.00	1.00 *	22.08	60.00
ACRt	Array Compensated True Resistivity Instrument Section	11022962	50.00	5.03	14.55	120.00
OBCEN	Centralizer - 25 in. Overbody	12345679	8.00	2.08 *	16.09	300.00
ACRt	Array Compensated True Resistivity Sonde Section	11005909	200.00	14.22	0.33	120.00
BLNS	Bull Nose	12345678	5.00	0.33	0.00	300.00

Total **1,159.10** **56.32**

* Not included in Total Length and Length Accumulation.

Data: ROSE_5-1\0001 GTET-DSN-SDL-ACRTIDLE

Date: 02-Oct-16 00:30:38

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	9.800	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	0.748	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	4730.00	ft
	SHARED	BHT	Bottom Hole Temperature	123.0	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 /	YBOK	Process Crossplot?	Yes	

CrossPlot	XFOR	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	0.58	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	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	
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	

BOTTOM

Data: ROSE_5-1\0001 GTET-DSN-SDL-ACRTIDLE

Date: 02-Oct-16 02:35:51

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name: GTET - 11048627

Reference Calibration Date: 25-Jul-16 10:06:29

Engineer: MICHAEL RICHTER

Calibration Date: 19-Sep-16 03:51:24

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

Calibration Version: 1

Calibrator Source S/N: TB-146

Calibrator API Reference:265.00 api

Equivalent Calibrator API Reference:269.6 api

Measurement	Measured	Calibrated	Units
Background	48.3	49.7	api
Background + Calibrator	310.1	319.4	api
Calibrator	261.8	269.6	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name: GTET - 11048627

Reference Calibration Date: 19-Sep-16 03:51:24

Engineer: MICHAEL RICHTER

Calibration Date: 19-Sep-16 03:55:07

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

Calibration Version: 1

Calibrator Source S/N: TB-146

Calibrator API Reference:265.00 api

Equivalent Calibrator API Reference:269.6 api

Field Verification	Shop	Field	Units
Background	49.7	49.4	api
Background + Calibrator	319.4	321.6	api
Calibrator	269.6	272.2	api

Shop	Field	Difference	Tolerance
269.6	272.2	-2.6	+/- 9.00

DENSITY CALIPER SHOP CALIBRATION

Tool Name: SDLT - 10950489

Reference Calibration Date: 16-Jun-16 11:07:12

Engineer: COTHREN

Calibration Date: 25-Jul-16 09:22:10

Software Version: WL INSITE R5.0.0 (Build 4)

Calibration Version: 1

Host Tool Name: DSNT - 11019643

CALIBRATION COEFFICIENTS

Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-3798.26	-3922.84	-7000.00 - -1000.00
Pad Gain	0.0003847	0.0003897	0.0002000 - 0.0006000
Arm Offset	-3606.28	-3528.51	-5000.00 - 3000.00
Arm Gain	0.0004697	0.0004727	0.000300 - 0.000700
Arm Power	-0.000002187	-0.000002590	-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)	2.02	2.00	-0.02	+/- 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)	15.05	15.00	-0.05	+/- 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 - 10950489	Reference Calibration Date:	25-Jul-16 09:22:10
Engineer:	COTHREN	Calibration Date:	31-Aug-16 13:24:18
Software Version:	WL INSITE R5.0.0 (Build 4)	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	8.25	0.00	+/- 0.15

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

MICRO LOG SHOP CALIBRATION			
Tool Name:	Microlog Pad - 10950489	Reference Calibration Date:	27-Apr-16 11:53:42
Engineer:	COTHREN	Calibration Date:	31-Aug-16 13:13:23
Software Version:	WL INSITE R5.0.0 (Build 4)	Calibration Version:	1
Host Tool Name:	DSNT - 11019643		

CALIBRATION COEFFICIENT SUMMARY					
Measurement	Micro Log Normal		Micro Log Lateral		Units
	Measured	Calibrated	Measured	Calibrated	
Tool Zero	-0.09	-0.16	-0.00	0.00	ohmm
Calibration Point #1	0.07	0.00	-0.00	0.00	ohmm
Calibration Point #2	20.12	20.00	20.05	20.00	ohmm
Internal Reference	19.96	19.85	20.02	19.98	ohmm

Measurement	Micro Log Normal Tool Value	Micro Log Lateral Tool Value	Units
Tool Zero	0.86	1.61	V
Calibration Point #1	42.97	1.49	V
Calibration Point #2	5401.29	7035.52	V
Internal Reference	5360.42	7027.77	V

MICRO LOG FIELD CHECK			
Tool Name:	Microlog Pad - 10950489	Reference Calibration Date:	31-Aug-16 13:13:23
Engineer:	MICHAEL RICHTER	Calibration Date:	19-Sep-16 03:50:00
Software Version:	WL INSITE R5.0.5 (Build 8)	Calibration Version:	1

Measurement	Micro Log Normal		Micro Log Lateral		Units
	Shop	Field	Shop	Field	
Tool Zero	-0.16	-0.16	0.00	-0.00	ohmm
Internal Reference	19.85	19.81	19.98	19.93	ohmm

Summary				
Signal	Shop	Field	Difference	Tolerance
Microlog Normal	19.85	19.81	0.04	+/- 0.80
Microlog Lateral	19.98	19.93	0.05	+/- 0.80

CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units

Gamma Ray Calibrator	269.6	272.2	-----	-2.6	+/- 9.00	api
SDLT-10950489						
Pad Extension	3.75	3.75	-----	0.00	+/-0.10	in
Ring Diameter	8.25	8.25	-----	0.00	+/-0.15	in
Microlog Pad-10950489						
MicroLog Normal	19.85	19.81	-----	0.04	+/-0.80	ohmm
MicroLog Lateral	19.98	19.93	-----	0.05	+/-0.80	ohmm

Data: ROSE_5-1\0001 GTET-DSN-SDL-ACRTIDLE Date: 02-Oct-16 00:32:38

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	56.32	NO	
BS	Bit Size	56.32	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
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	
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: ROSE_5-1\0001 GTET-DSN-SDL-ACRTIDLE			Date: 02-Oct-16 00:31:17	

COMPANY	HARTMAN OIL CO., INC		
WELL	ROSE #5-1		
FIELD	AMERICAN BEAUTY		
COUNTY	WICHITA	STATE	KANSAS
HALLIBURTON		MICROLOG	