

HALLIBURTON

MICROLOG

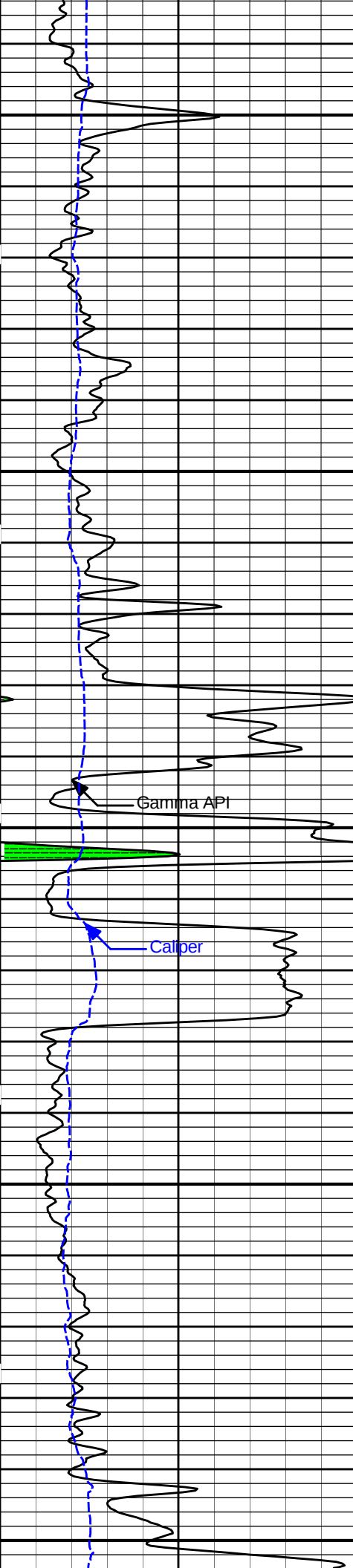
COMPANY		VAL ENERGY, INC.			
WELL		SOUTH EAST MADDIX #1-11			
FIELD		UNKNOWN			
COUNTY		BARBER			
STATE		KANSAS			
Permanent Datum		Sect. 11		Twp. 31 S	Rge. 13 W
Log measured from		GL		Elev. 1682.0 ft	Elev.: K.B. 1692.0 ft
Drilling measured from		KB		10.0 ft above perm. Datum	D.F. 1691.0 ft
		KB			G.L. 1682.0 ft
Date		27-Mar-13			
Run No.		1			
Depth - Driller		4450.00 ft			
Depth - Logger		4446.0 ft			
Bottom - Logged Interval		4436			
Top - Logged Interval		3300			
Casing - Driller		8.625 in @ 225.0 ft			@
Casing - Logger		225.0 ft			@
Bit Size		7.875 in			@
Type Fluid in Hole		WBM			
Density		9.4 ppg		58.00 s/qt	
PH		10.50 pH		9.6 cpm	
Source of Sample		MUDPIT			
Rm @ Meas. Temperature		0.610 ohmm @ 78.00 degF			@
Rmf @ Meas. Temperature		0.48 ohmm @ 75.00 degF			@
Rmc @ Meas. Temperature		0.830 ohmm @ 75.00 degF			@
Source Rmf		MEAS			
Rm @ BHT		0.40 ohmm @ 124.0 degF			@
Time Since Circulation		6.0 hr			
Time on Bottom		27-Mar-13 04:22			
Max. Rec. Temperature		124.0 degF @ 4446.0 ft			@
Equipment		786		FTSM	
Recorded By		WHITLOCK			
Witnessed By		ZEB STEWART			

Fold here

Service Ticket No.: 900320116				API Serial No.: 15-007-23994				PGM Version: WL INSITE R3.6.0 (Build 3)						
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.		@		@										
Rmc @ Meas. Temp.		@		@										
Source Rmf	Rmc													
Rm @ BHT		@		@										
Rmf @ BHT		@		@										
Rmc @ BHT		@		@										
EQUIPMENT DATA														
GAMMA			ACOUSTIC			DENSITY			NEUTRON					
Run No.			Run No.			Run No.			Run No.					
Serial No.			Serial No.			Serial No.			Serial No.					
Model No.			Model No.			Model No.			Model No.					
Diameter			No. of Cent.			Diameter			Diameter					
Detector Model No.			Spacing			Log Type			Log Type					
Type						Source Type			Source Type					
Length			LSA [Y/N]			Serial No.			Serial No.					
Distance to Source			FWDA [Y/N]			Strength			Strength					
LOGGING DATA														
GENERAL			GAMMA			ACOUSTIC			DENSITY			NEUTRON		

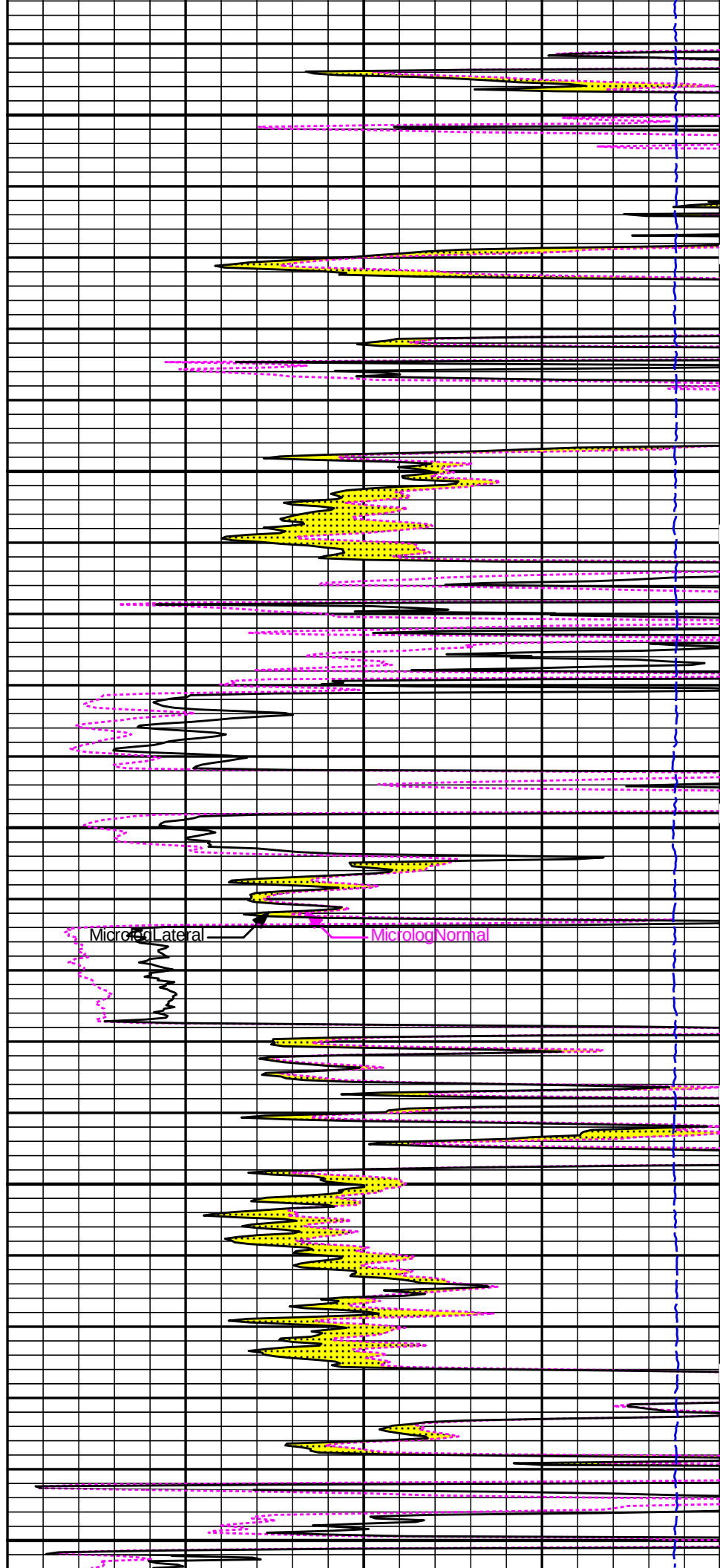
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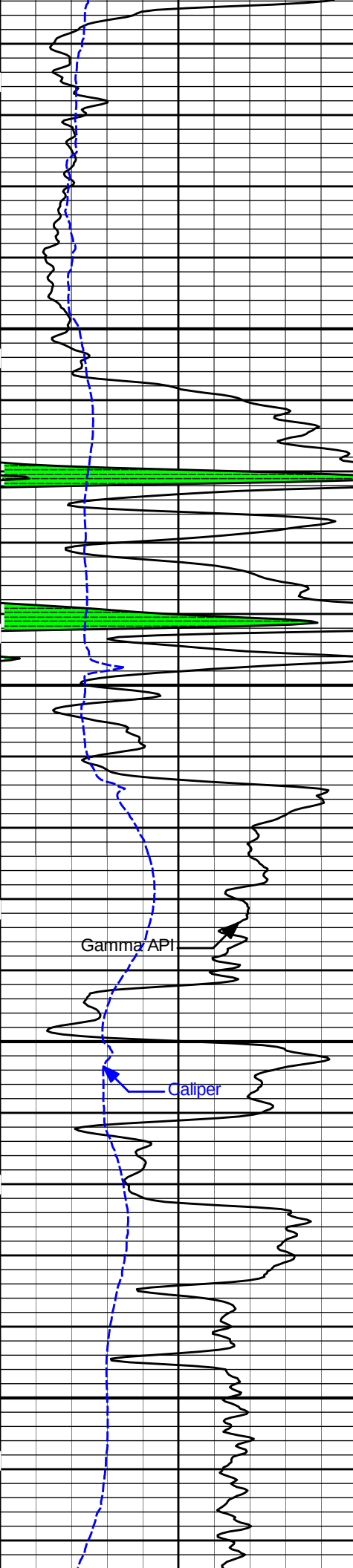
MAIN LOG 5" PER 100'



3400

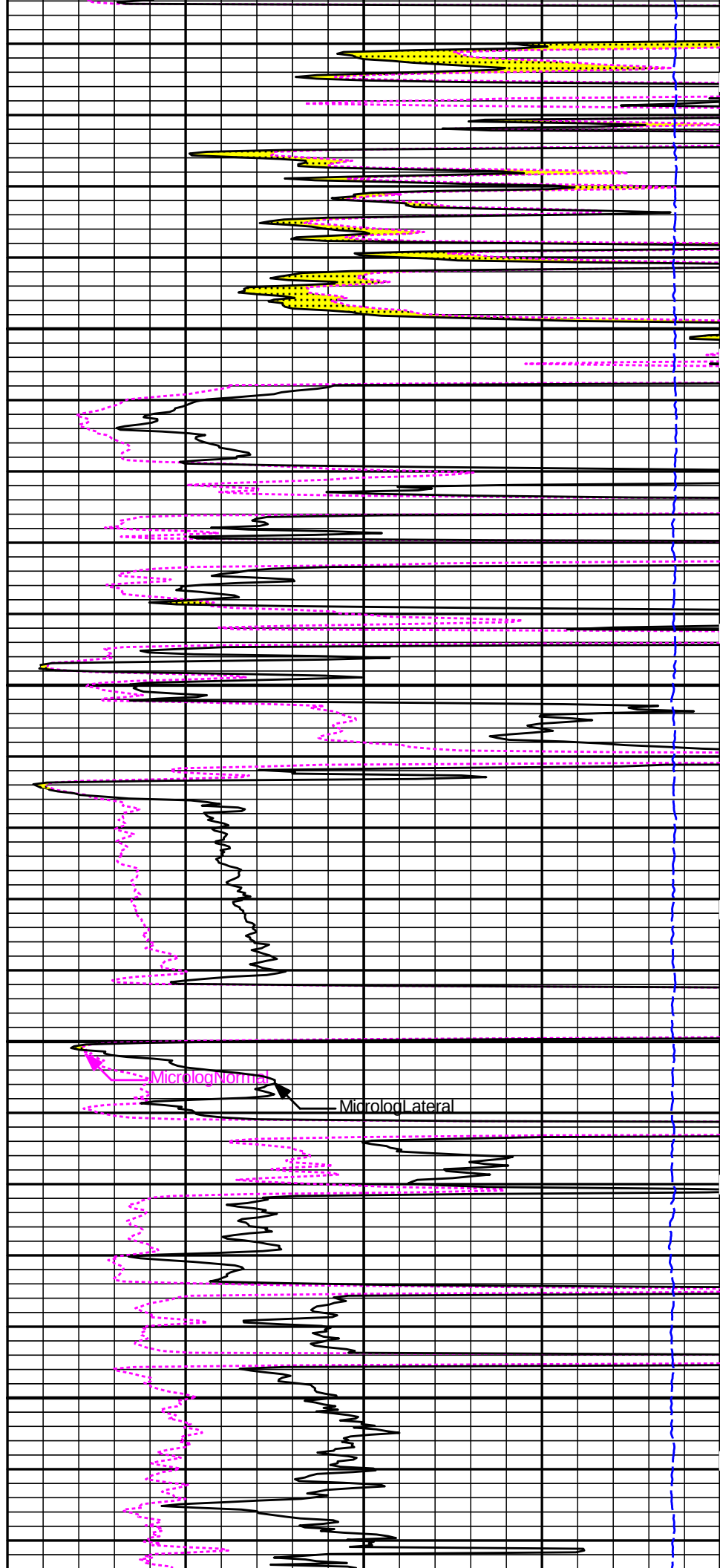
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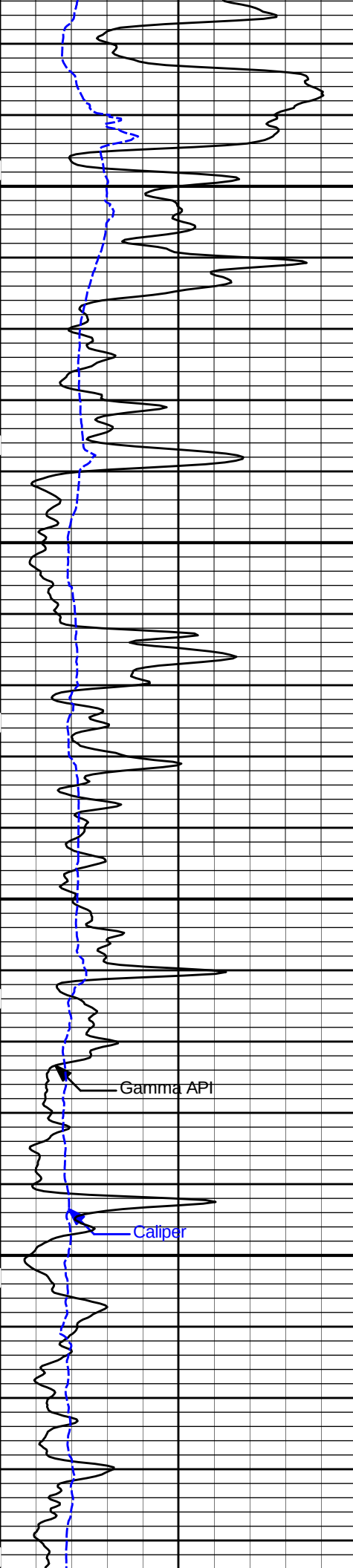




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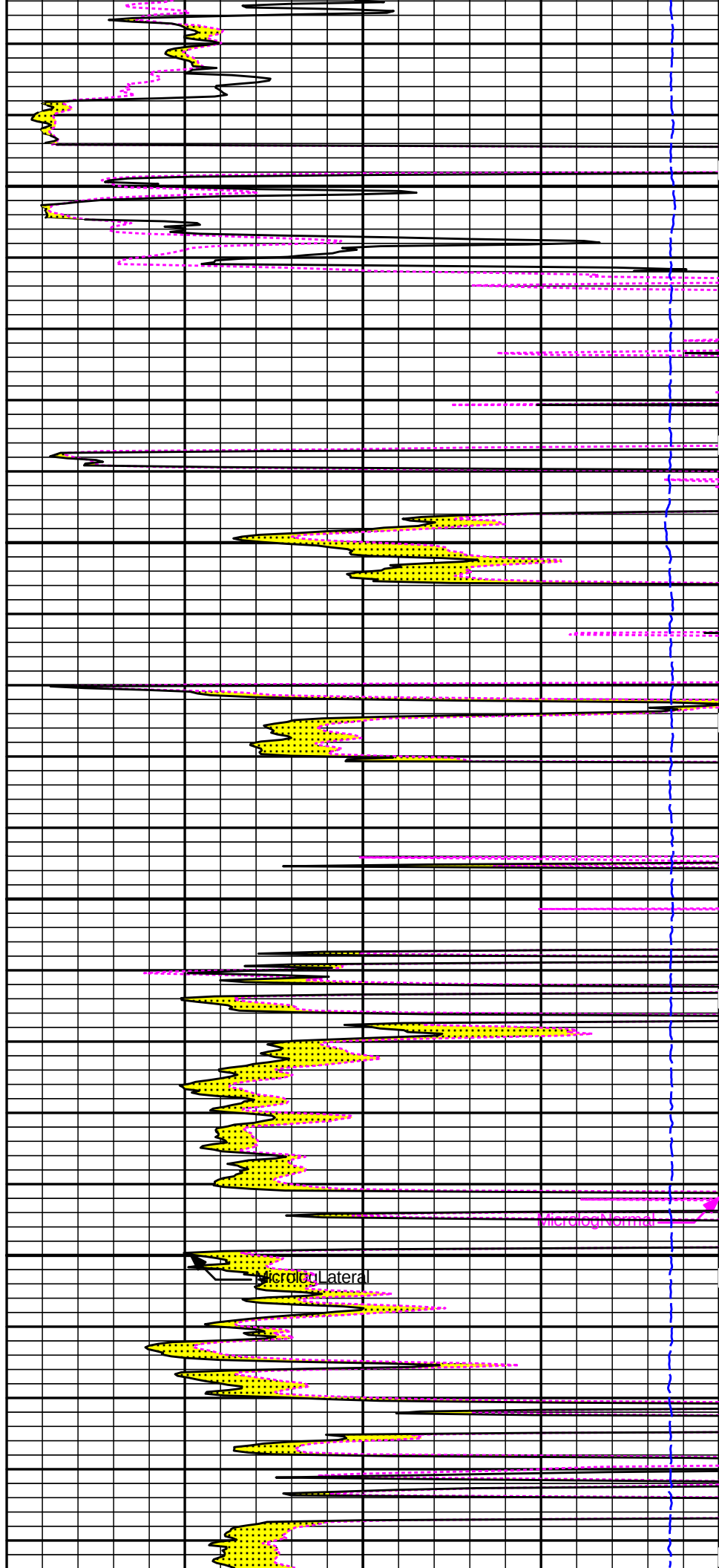


Gamma API

Caliper

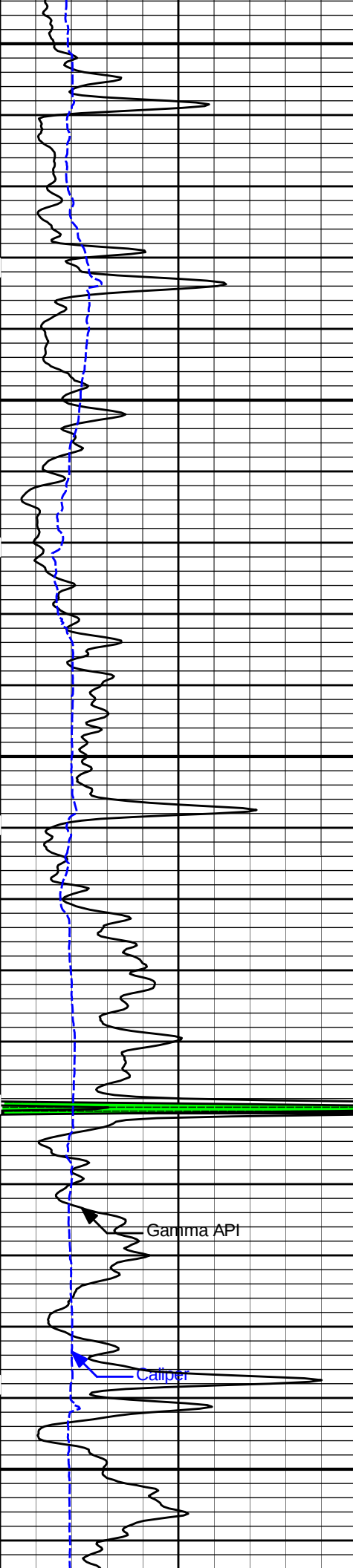
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Microlog Normal

Microlog Lateral



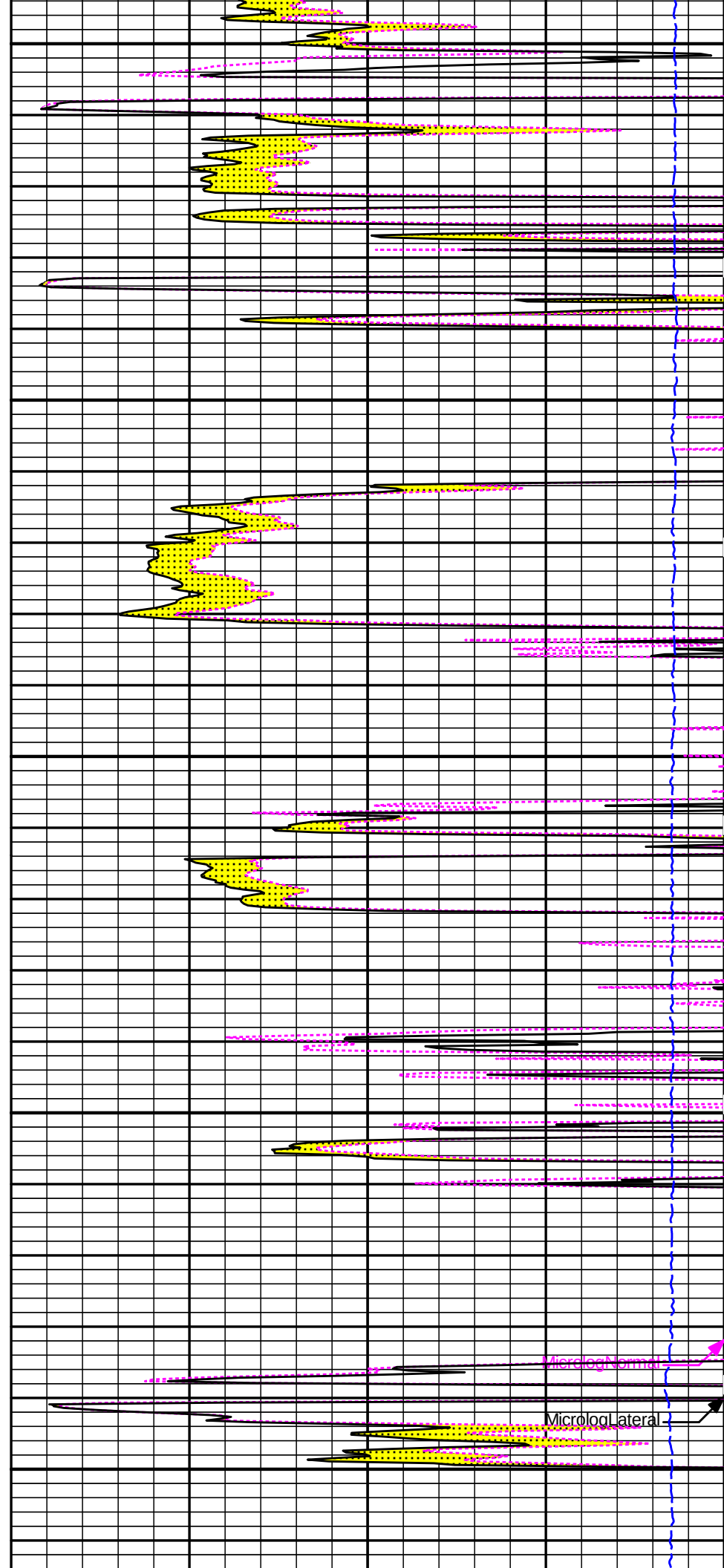
4000

4100

4200

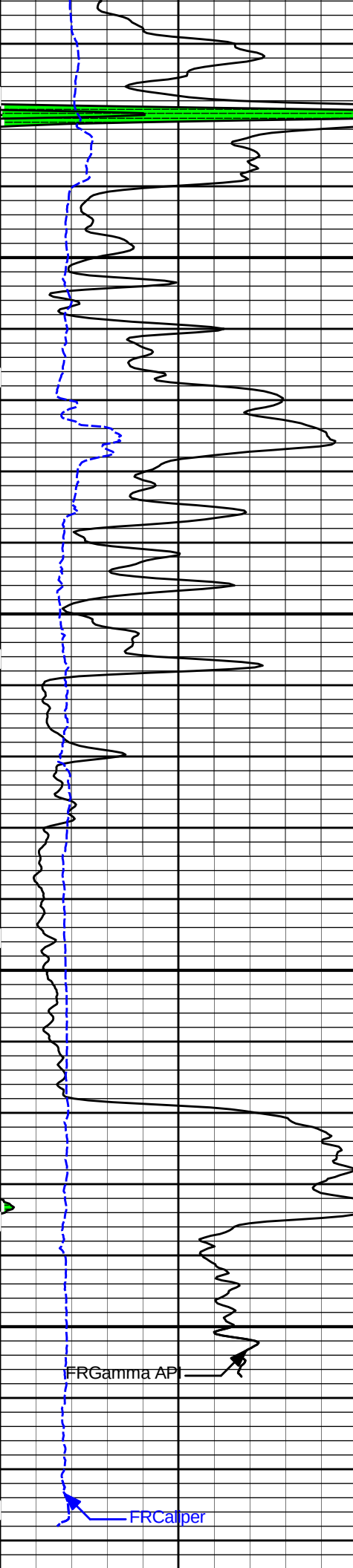
Gamma API

Caliper



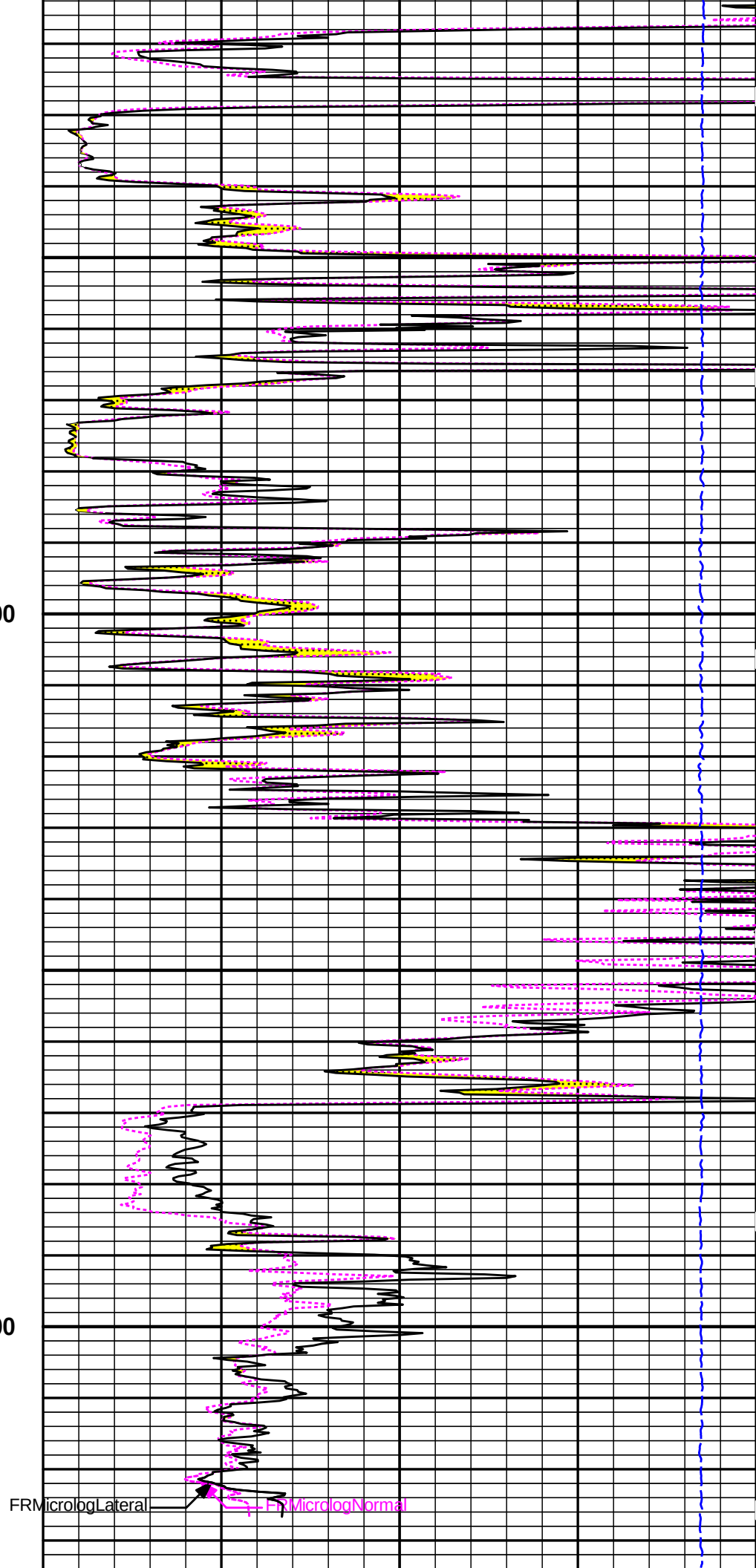
MicrologNormal

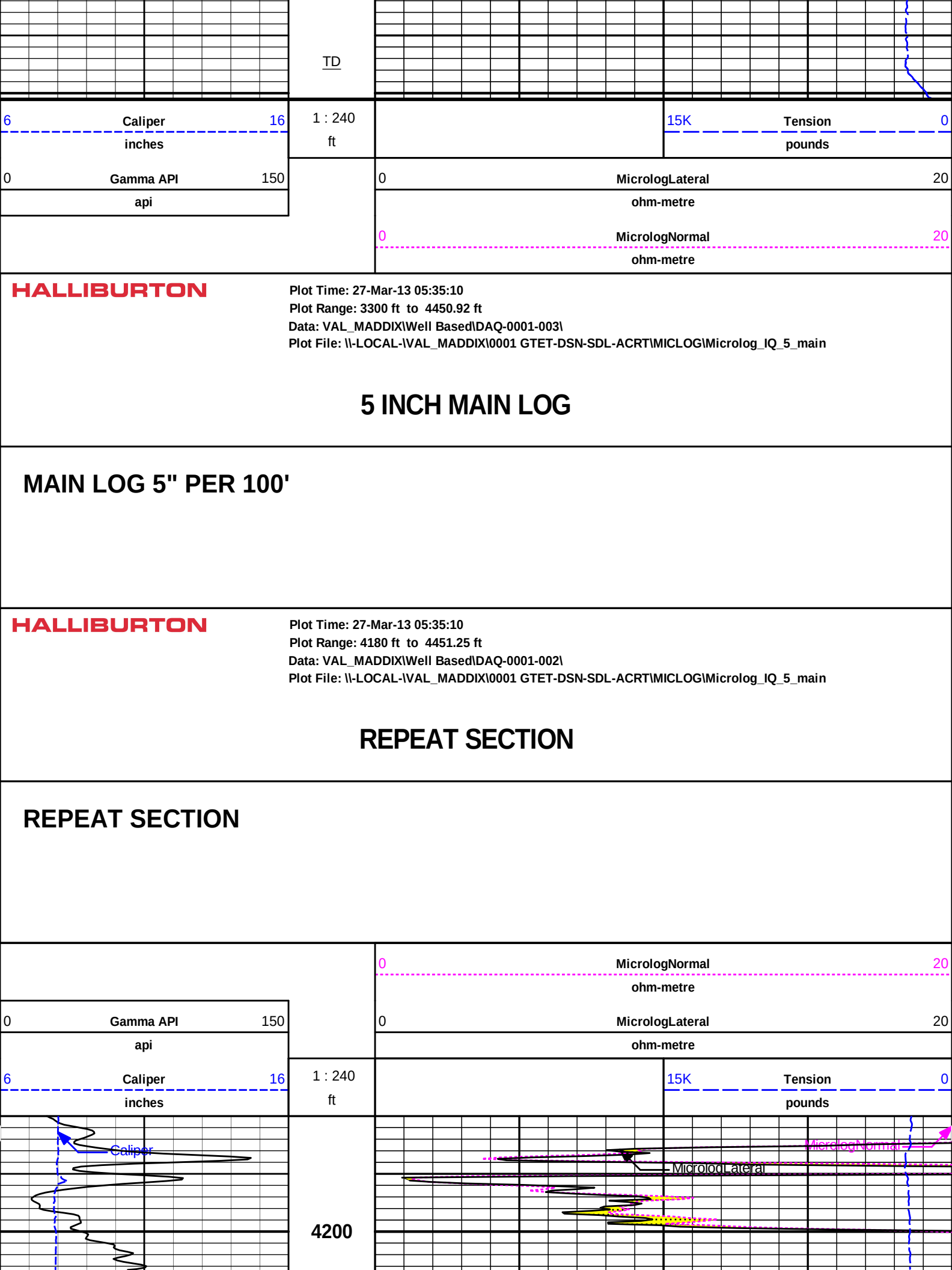
MicrologLateral

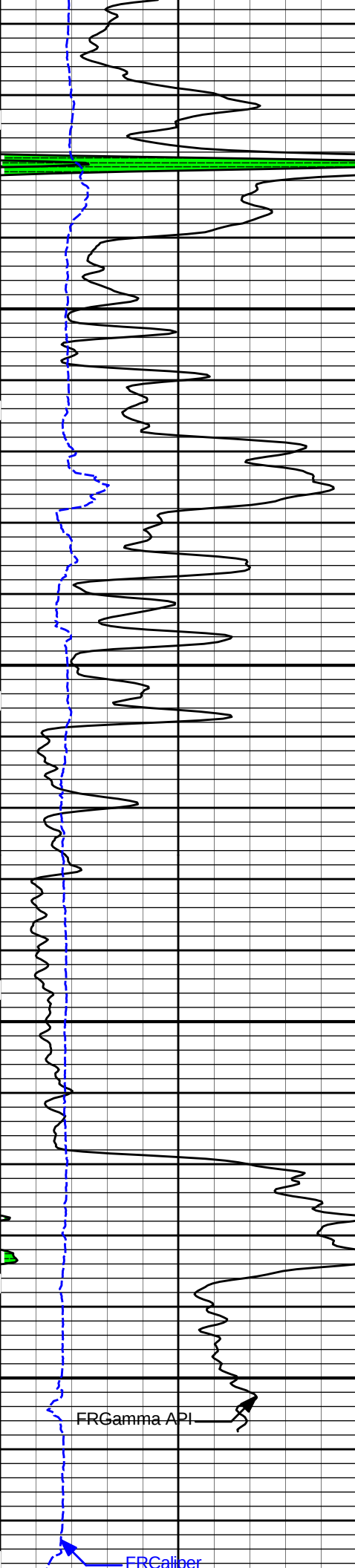


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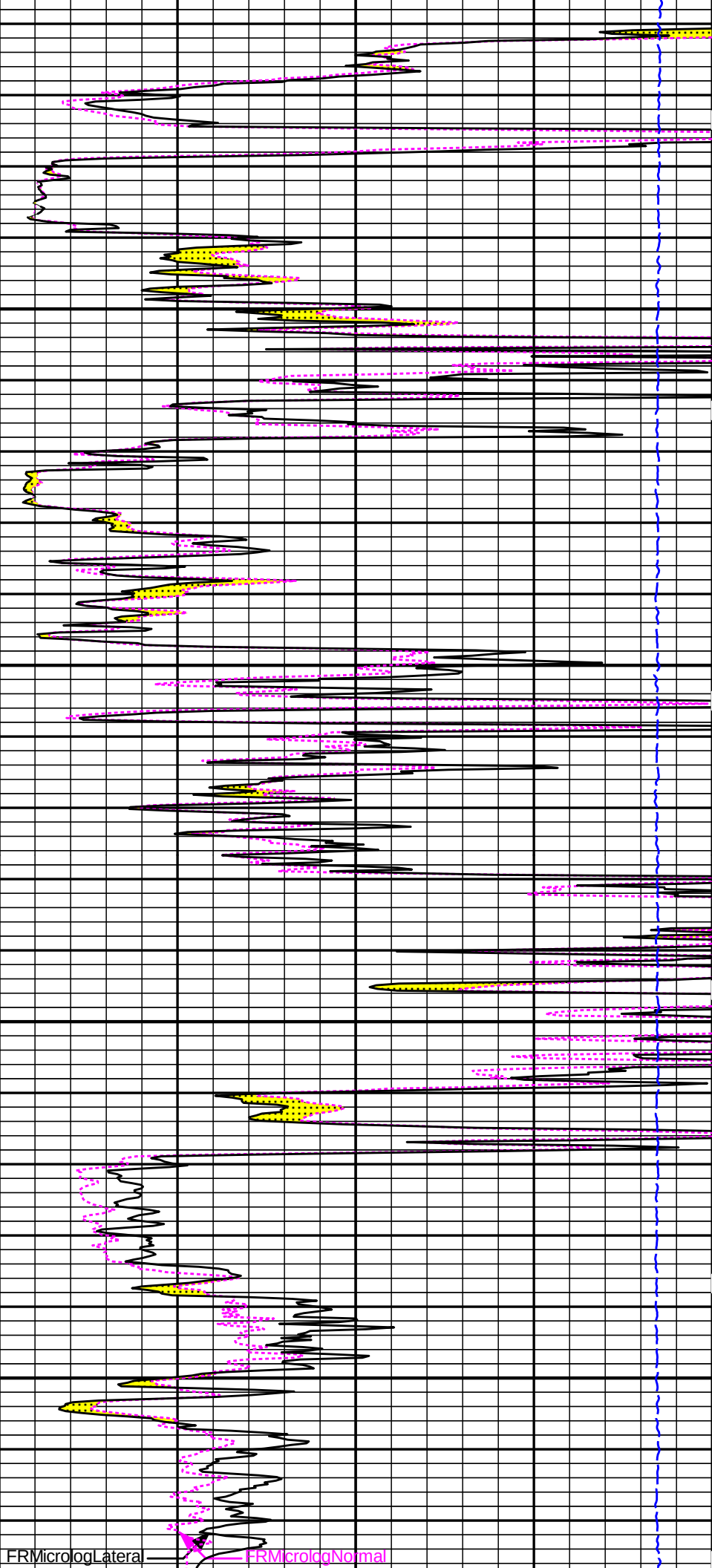






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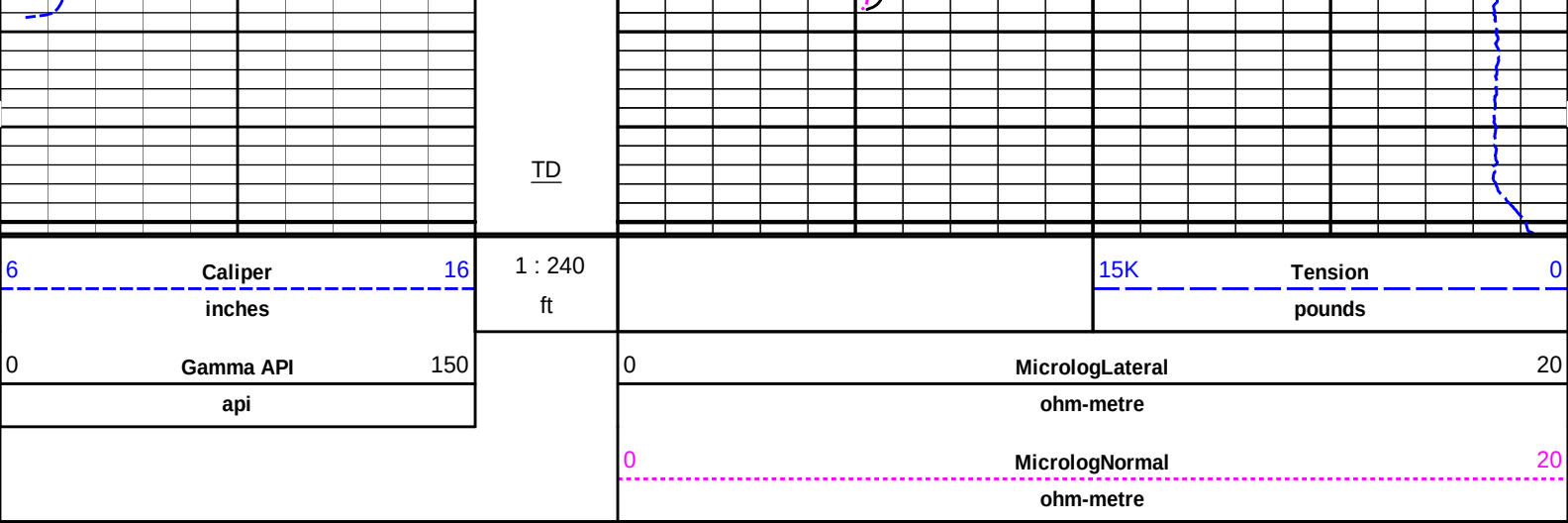
4400



FRCaliber

FRCaliber API

FRCaliber Normal



HALLIBURTON

Plot Time: 27-Mar-13 05:35:14
Plot Range: 4180 ft to 4451.25 ft
Data: VAL_MADDIX\Well Based\DAQ-0001-002\
Plot File: \\-LOCAL-\\VAL_MADDIX\0001 GTET-DSN-SDL-ACRT\MICLOG\Microlog_IQ_5_main

REPEAT SECTION

REPEAT SECTION

HALLIBURTON

CALIBRATION REPORT

SURFACE TENSION SHOP CALIBRATION

Tool Name:	Depth Panel - PROT01	Reference Calibration Date:	13-Jan-08 19:31:38
Engineer:	WHITLOCK	Calibration Date:	26-Mar-09 09:42:21
Software Version:	WL INSITE R2.4 (Build 1)	Calibration Version:	1

SURFACE TENSION LOAD CELL				
Measurement	Load Cell Value	Measurement	Calibrated	Units
Low	9877.87	32908.03	0.00	lbs
High	16448.28	55771.74	7800.00	lbs

DOWNHOLE TENSION SHOP CALIBRATION

Tool Name:	CH_HOS - CH_HOS_I	Reference Calibration Date:	15-Dec-12 21:31:17
Engineer:	WHITLOCK	Calibration Date:	10-Feb-13 14:03:08
Software Version:	WL INSITE R3.6.0 (Build 3)	Calibration Version:	1

DOWNHOLE LOAD CELL				
Measurement	Tool Value	Measurement	Calibrated	Units
Low	-476.87	35.01	0.00	lbs
High	4695.02	1517.37	1100.00	lbs

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:	GTET - 10971172	Reference Calibration Date:	22-Feb-13 10:19:33
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Engineer: HOFKAMP Calibration Date: 13-Mar-13 11:03:10

Software Version: WL INSITE R3.6.0 (Build 3)

Calibration Version: 1

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	24.5	25.1	api
Background + Calibrator	245.4	251.0	api
Calibrator	220.8	225.9	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name: GTET - 10971172

Reference Calibration Date: 13-Mar-13 11:03:10

Engineer: WHITLOCK

Calibration Date: 27-Mar-13 03:43:37

Software Version: WL INSITE R3.6.0 (Build 3)

Calibration Version: 1

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	25.1	40.1	api
Background + Calibrator	251.0	270.5	api
Calibrator	225.9	230.4	api

Shop	Field	Difference	Tolerance
225.9	230.4	-4.5	+/- 9.00

ACCELEROMETER SHOP CALIBRATION

Tool Name: GTET - 10971172

Reference Calibration Date: 01-Jan-70 00:00:00

Engineer: WHITLOCK

Calibration Date: 20-Oct-08 14:40:55

Software Version: WL INSITE R2.2 (Build 2)

Calibration Version: 1

1

Horizontal-1 Telemetry	Horizontal-2 Telemetry	Vertical Telemetry	Units
-85.64	-67.18	-16422.00	cnts

Coefficient	Coefficient Value	Tolerance
Gain	-0.000061	----
Offset	-0.005	----
Noise	0.0000	0.0000 - 0.0000

Orientation	Measured	Tolerance	Calibrated	Tolerance
Horizontal	-76.41	-0.10 - 0.10	0.00	-0.10 - 0.10
Vertical	-16422.00	0.90 - 1.10	1.00	0.90 - 1.10

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name: DSNT - 10951378

Reference Calibration Date: 08-Feb-13 12:26:14

Engineer: HOFKAMP

Calibration Date: 13-Mar-13 10:03:57

Software Version: WL INSITE R3.6.0 (Build 3)

Calibration Version: 1

1

Logging Source S/N: DSN-373

Tank Serial Number: FTSM HORIZONTAL TANK

Reference value assigned to Tank: 56.100

Snow Block S/N: FTSM

Calibration Tank Water Temperature: 55 degF

Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS			
Measurement	Prev. Value	New Value	Control Limit On New Value

Gain:	1.006	1.011	0.900 - 1.100
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WATER TANK SUMMARY (Horizontal Water Tank)				
Measurement	Current Reading (Previous Coef.)	Calibrated (New Coef.)	Change	Control Limit On Change
Porosity (decp):	0.2343	0.2358	0.0015	+/- 0.0020
Calibrated Ratio:	10.51	10.56	0.049	+/- 0.050

VERIFIER		
Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0884	0.02000 - 0.09000

PASS/FAIL SUMMARY	
Background Check:	Passed
Gain-Range Check:	Passed
Snow-Block Check:	Passed

DUAL SPACED NEUTRON FIELD CALIBRATION			
Tool Name:	DSNT - 10951378	Reference Calibration Date:	13-Mar-13 10:03:57
Engineer:	WHITLOCK	Calibration Date:	27-Mar-13 03:47:19
Software Version:	WL INSITE R3.6.0 (Build 3)	Calibration Version:	1

Logging Source S/N: DSN-373

Snow Block S/N: FTSM

NEUTRON FIELD-CHECK SUMMARY				
	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0884	0.0759	-0.0125	+/- 0.0150

PASS/FAIL SUMMARY	
Block Change Check:	Passed
Snow Block Stat Check:	Passed
Temperature Check:	Passed

DENSITY CALIPER SHOP CALIBRATION			
Tool Name:	SDLT - 10950477	Reference Calibration Date:	01-Jan-70 00:00:00
Engineer:	WHITLOCK	Calibration Date:	10-Dec-12 12:17:06
Software Version:	WL INSITE R3.6.0 (Build 3)	Calibration Version:	1
Host Tool Name:	DSNT - 10951378		

CALIBRATION COEFFICIENTS			
Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-3368.16	-3368.16	-7000.00 - -1000.00
Pad Gain	0.0003806	0.0003806	0.000200 - 0.000600
Arm Offset	-3267.02	-3267.02	-5000.00 - 3000.00
Arm Gain	0.0005532	0.0005532	0.000300 - 0.000700
Arm Power	-0.000007075	-0.000007075	-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 - 10950477		Reference Calibration Date:	10-Dec-12 12:17:06	
Engineer:	WHITLOCK		Calibration Date:	10-Dec-12 12:18:30	
Software Version:	WL INSITE R3.6.0 (Build 3)		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	

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION					
Tool Name:	ACRt Sonde - 10952708			Reference Calibration Date:	04-Oct-12 09:04:59
Engineer:	HOFKAMP			Calibration Date:	13-Mar-13 09:12:33
Software Version:	WL INSITE R3.6.0 (Build 3)			Calibration Version:	1
Host Tool Name:	ACRt Instrument - 10967816				

TYPICAL GAIN RANGE									
Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.05	1.05	0.95	1.02	1.05	0.95	1.01	1.05
A2 (50")	0.95	1.04	1.05	0.95	1.02	1.05	0.95	1.01	1.05
A3 (29")	0.95	1.04	1.05	0.95	1.02	1.05	0.95	1.01	1.05
A4 (17")	0.95	1.04	1.05	0.95	1.01	1.05	0.95	1.01	1.05
A5 (10")	N/A	N/A	N/A	0.95	1.01	1.05	0.95	1.00	1.05
A6 (6")	N/A	N/A	N/A	0.95	1.00	1.05	0.95	0.99	1.05

TYPICAL SONDE OFFSET RANGE									
Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	-5	1.01	2	-6	-4.52	-2	-8	-5.85	-2
A2 (50")	-7	0.36	0	-7	-3.72	0	-7	-5.33	0
A3 (29")	-5	1.05	0	-6	-4.52	0	-5	-4.03	0

A3 (29")	-27	-12.77	-9	-4.53	-3	-7	-4.33	-1
A4 (17")	-180	-100.31	-60	-45	-31.13	-15	-39	-25.13
A5 (10")	N/A	N/A	N/A	-150	-101.40	-50	-80	-48.30
A6 (6")	N/A	N/A	N/A	175	328.98	525	90	167.04

TRANSMITTER CURRENT GAIN				R-MUD VERIFICATION			
Signal	Lower	R	Upper	Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
12K	0.6	0.84	1.3	Mud Cell	0.95	1.00	1.05
36K	1.0	1.16	2.0				
72K	1.0	1.32	2.0				
PASS/FAIL SUMMARY							
GAIN RANGE CHK				PASS			
SONDE OFFSET RANGE CHK				FAIL			
Tx CURRENT GAIN				PASS			
Rmud VERIFICATION				PASS			
TOOL OUT OF TOLERANCE							

SPECTRAL DENSITY SHOP CALIBRATION			
Tool Name:	SDLT Pad - 10865870	Reference Calibration Date:	08-Feb-13 11:58:25
Engineer:	HOFKAMP	Calibration Date:	13-Mar-13 10:57:08
Software Version:	WL INSITE R3.6.0 (Build 3)	Calibration Version:	1

Logging Source S/N: 20784B			
Aluminum Block S/N: FTSM AL BLOCK		Density: 2.581g/cc	Pe: 3.170
Magnesium Block S/N: FTSM MG BLOCK		Density: 1.687g/cc	Pe: 2.594

DENSITY CALIBRATION SUMMARY			
Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0347	1.0345	0.90 - 1.10
Near Dens Gain	1.0255	1.0275	0.90 - 1.10
Near Peak Gain	1.0441	1.0367	0.90 - 1.10
Near Lith Gain	1.0509	1.0649	0.90 - 1.10
Far Bar Gain	1.0104	1.0075	0.90 - 1.10
Far Dens Gain	1.0013	0.9986	0.90 - 1.10
Far Peak Gain	0.9996	0.9989	0.90 - 1.10
Far Lith Gain	0.9776	0.9760	0.90 - 1.10
Near Bar Offset	-0.1069	-0.1109	NONE
Near Dens Offset	-0.0371	-0.0565	NONE
Near Peak Offset	-0.1982	-0.1378	NONE
Near Lith Offset	-0.2792	-0.3983	NONE
Far Bar Offset	0.0568	0.0791	NONE
Far Dens Offset	0.1080	0.1277	NONE
Far Peak Offset	0.0850	0.0815	NONE
Far Lith Offset	0.2082	0.2104	NONE
Near Bar Background	878.52	876.19	700 - 1450
Near Dens Background	288.27	286.66	230 - 480
Near Peak Background	126.53	125.39	100 - 210
Near Lith Background	154.97	153.87	125 - 260
Far Bar Background	530.98	531.44	450 - 900
Far Dens Background	206.14	207.07	175 - 345

Far Peak Background	81.68	81.62	70 - 140
Far Lith Background	85.70	84.68	75 - 145

CALIBRATION BLOCK SUMMARY				
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.685	1.687	0.002	+/- 0.015
Pe	2.579	2.549	-0.030	+/- 0.150
ALUMINUM				
Density (g/cc)	2.581	2.581	0.000	+/- 0.01500
Pe	3.135	3.122	-0.013	+/- 0.150

TOOL SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	-0.0013	+/- 0.0110	-0.0030	+/- 0.0140
Magnesium Block	-0.0014	+/- 0.0110	-0.0020	+/- 0.0140
Aluminum Block	0.0004	+/- 0.0110	0.0009	+/- 0.0140
Resolution	9.22	6.00 - 11.50	8.83	6.00 - 11.50
Internal Verifier(B+D+P+L)	1442	1200 - 2700	905	800 - 1700

PASS/FAIL SUMMARY	
Background Quality Check:	Passed
Background Range Check:	Passed
Background Resolution Check:	Passed
Background Verification Check:	Passed
Magnesium Quality Check:	Passed
Aluminum Quality Check:	Passed
Gains Check:	Passed
Changes in Calibration Blocks:	Passed

SPECTRAL DENSITY FIELD CHECK			
Tool Name:	SDLT Pad - 10865870	Reference Calibration Date:	13-Mar-13 10:57:08
Engineer:	WHITLOCK	Calibration Date:	27-Mar-13 03:44:03
Software Version:	WL INSITE R3.6.0 (Build 3)	Calibration Version:	1

Pad Temperature: 43.5 degF

DENSITY FIELD CALIBRATION SUMMARY				
Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1442.119	1450.399	8.280	15.321
Far (B+D+P+L) cps	904.806	903.677	-1.129	16.344
Near Resolution	9.22	9.33	0.110	0.50
Far Resolution	8.83	9.22	0.390	1.00

PASS/FAIL SUMMARY	
Bkg Quality Check:	Passed
Bkg Resolution Check:	Passed
Bkg Verification Check:	Passed

MICRO LOG SHOP CALIBRATION

Tool Name: Microlog Pad - 10950477		Reference Calibration Date: 30-Nov-12 11:36:34				
Engineer: WHITLOCK		Calibration Date: 08-Feb-13 11:29:41				
Software Version: WL INSITE R3.6.0 (Build 3)		Calibration Version: 1				
Host Tool Name: DSNT - 10951378						
	CALIBRATION COEFFICIENT SUMMARY					
	Measurement	Micro Log Normal		Micro Log Lateral		
		Measured	Calibrated	Measured	Calibrated	Units
	Tool Zero	-0.16	-0.10	-0.00	-0.01	ohmm
	Calibration Point #1	-0.06	0.00	0.01	0.00	ohmm
	Calibration Point #2	19.82	20.00	19.88	20.00	ohmm
	Internal Reference	19.73	19.91	19.90	20.02	ohmm
	Measurement	Micro Log Normal Tool Value		Micro Log Lateral Tool Value		Units
	Tool Zero	-0.93		0.10		V
	Calibration Point #1	24.50		3.18		V
	Calibration Point #2	5268.10		6843.06		V
	Internal Reference	5244.13		6849.93		V

MICRO LOG FIELD CHECK						
Tool Name: Microlog Pad - 10950477		Reference Calibration Date: 08-Feb-13 11:29:41				
Engineer: WHITLOCK		Calibration Date: 27-Mar-13 03:42:01				
Software Version: WL INSITE R3.6.0 (Build 3)		Calibration Version: 1				
	Measurement	Micro Log Normal		Micro Log Lateral		Units
		Shop	Field	Shop	Field	
	Tool Zero	-0.10	-0.09	-0.01	-0.01	ohmm
	Internal Reference	19.91	19.88	20.02	19.98	ohmm
	Summary					
	Signal	Shop	Field	Difference	Tolerance	
	Microlog Normal	19.91	19.88	0.03	+/- 0.80	
	Microlog Lateral	20.02	19.98	0.04	+/- 0.80	

CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
Depth Panel-PROT01						
Tension Zero	0.00	-----	-----	0.00	-----	lbs
Tension Cal	7800.00	-----	-----	0.00	-----	lbs
CH_HOS-CH_HOS_I						
DH Tension Zero	0.00	-----	-----	0.00	-----	lbs
DH Tension Cal	1100.00	-----	-----	0.00	-----	lbs
GTET-10971172						
Gamma Ray Calibrator	225.9	230.4	-----	-4.5	+/- 9.00	api
DSNT-10951378						
Snow-Block Porosity	0.0884	0.0759	-----	0.0125	+/- 0.0150	decp
SDLT-10950477						
Pad Extension	3.75	3.75	-----	0.00	+/-0.10	in
Ring Diameter	8.25	8.25	-----	0.00	+/-0.15	in
ACRt Sonde-10952708						
Mud Cell	1.00	-----	-----	0.00	-----	ohm-m
SDLT Pad-10865870						

Near(B+D+P+L)	1442.119	1450.399	-----	-8.280	+/-15.321	cps
Far(B+D+P+L)	904.806	903.677	-----	1.129	+/-16.344	cps
Microlog Pad-10950477						
MicroLog Normal	19.91	19.88	-----	0.03	+/-0.80	ohmm
MicroLog Lateral	20.02	19.98	-----	0.04	+/-0.80	ohmm
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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	9.400	ppg	
	SHARED	WAGT	Weighting Agent	Barite		
	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	4450.00	ft	
	SHARED	BHT	Bottom Hole Temperature	130.0	degF	
	SHARED	SVTM	Navigation and Survey Master Tool	NONE		
	SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET		
	SHARED	TEMM	Temperature Master Tool	NONE		
	SHARED	BHSM	Borehole Size 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		
	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		
	DSNT	DNOK	Process DSN?	Yes		
	DSNT	DEOK	Process DSN EVR?	No		
	DSNT	NLIT	Neutron Lithology	Limestone		
	DSNT	DSNO	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	
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
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 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

BOTTOM_____

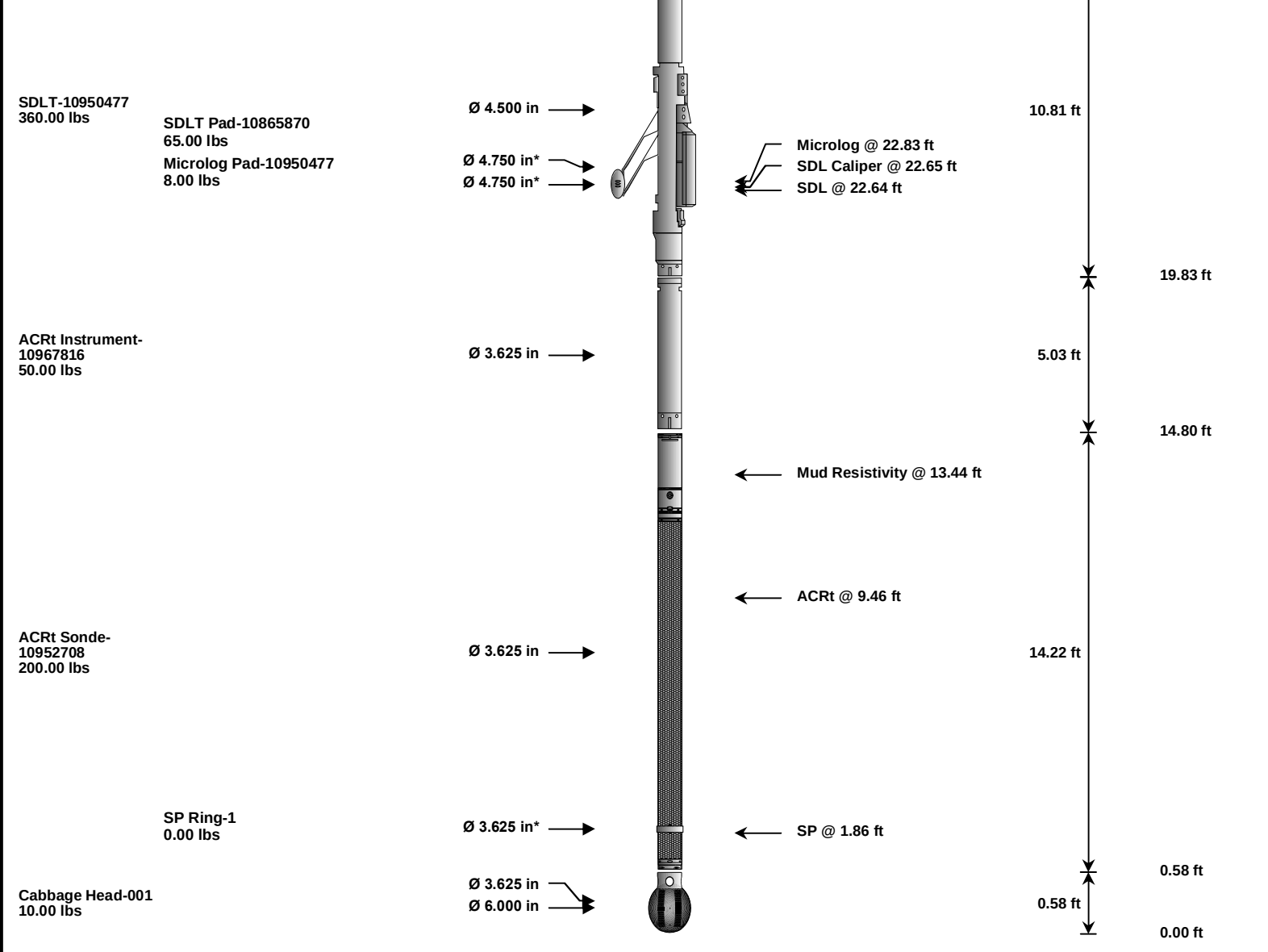
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HALLIBURTON

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 @ 50.85 ft	3.25 ft	52.10 ft
GTET-10971172 165.00 lbs		Ø 3.625 in →		← GammaRay @ 42.79 ft	8.52 ft	48.85 ft
						40.33 ft
DSNT-10951378 174.00 lbs	DSN Decentralizer- 10951378 6.60 lbs	Ø 5.000 in* → Ø 3.625 in →		← DSN Far @ 33.39 ft ← DSN Near @ 32.64 ft	9.69 ft	
						30.64 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	3.25	48.85	300.00
GTET	Gamma Telemetry Tool	10971172	165.00	8.52	40.33	60.00
DSNT	Dual Spaced Neutron	10951378	174.00	9.69	30.64	60.00
DCNT	DSN Decentralizer	10951378	6.60	5.13	33.97	300.00
SDLT	Spectral Density Tool	10950477	360.00	10.81	19.83	60.00
SDLP	Density Insite Pad	10865870	65.00	2.55	22.04	60.00
MICP	Microlog Pad	10950477	8.00	1.00	22.33	60.00
ACRt	Array Compensated True Resistivity Instrument Section	10967816	50.00	5.03	14.80	300.00
ACRt	Array Compensated True Resistivity Sonde Section	10952708	200.00	14.22	0.58	300.00
SP	SP Ring	1	0.00	0.25	1.86	300.00
CBHD	Cabbage Head	001	10.00	0.58	0.00	300.00
Total			1,076.10	52.10		

* Not included in Total Length and Length Accumulation.

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