

HALLIBURTON					MICROLOG				
COMPANY WELL FIELD COUNTY STATE					COMPANY WELL FIELD COUNTY STATE				
OXY USA INC KELLS H-1 PLEASANT PRARIE SE HASKELL KANSAS					OXY USA INC KELLS H-1 PLEASANT PRARIE SE HASKELL KANSAS				
Permanent Datum Log measured from Drilling measured from					Sect. 32 Twp. 27S Rge. 33W Elev. 2984.0 ft D.F. G.L.				
Date Run No. Depth - Driller Depth - Logger Bottom - Logged Interval Top - Logged Interval Casing - Driller Casing - Logger Bit Size Type Fluid in Hole Density PH Source of Sample Rm @ Meas. Temperature Rmf @ Meas. Temperature Rmc @ Meas. Temperature Source Rmf Rm @ BHT Time Since Circulation Time on Bottom Max. Rec. Temperature Equipment Recorded By Witnessed By					API No. 15-081-21968 Location 1402' FNL & 330' FEL Other Services: ACRT BSAT DSNT, SDLT ONE 5509.00 ft 5478.0 ft 5439.0 ft 4118.0 ft 8.625 in @ 1775.0 ft 1776.0 ft 7.875 in @ WATER BASED MUD 9.7 dpq 8.50 pH FLOW LINE 1.270 ohmm @ 74.00 degF 1.51 ohmm @ 51.00 degF 2.100 ohmm @ 51.00 degF MEAS 0.74 ohmm @ 128.0 degF 0.0 hr 05-Mar-12 19:18 128.0 degF @ 5478.0 ft 1054696 J. BOLLOM A. HOWSON				

Fold here

Service Ticket No.: 9323213				API Serial No.: 15-081-21968				PGM Version: WL INSITE R3.4.2 (Build 2)			
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	M469	RUBBER	ADJ	N/A	
Rmc @ Meas. Temp.		@		@							
Source Rmf	Rmc										
Rm @ BHT		@		@							
Rmf @ BHT		@		@							
Rmc @ BHT		@		@							
EQUIPMENT DATA											
GAMMA			ACOUSTIC			DENSITY			NEUTRON		
Run No.	ONE		Run No.			Run No.			Run No.		
Serial No.	11039640		Serial No.			Serial No.			Serial No.		
Model No.	GTET		Model No.			Model No.			Model No.		
Diameter	3.625"		No. of Cent.			Diameter			Diameter		
Detector Model No.	GTET		Spacing			Log Type			Log Type		
Type	SCINT					Source Type			Source Type		
Length	8"		LSA [Y/N]			Serial No.			Serial No.		
Distance to Source	10'		FWDA [Y/N]			Strength			Strength		

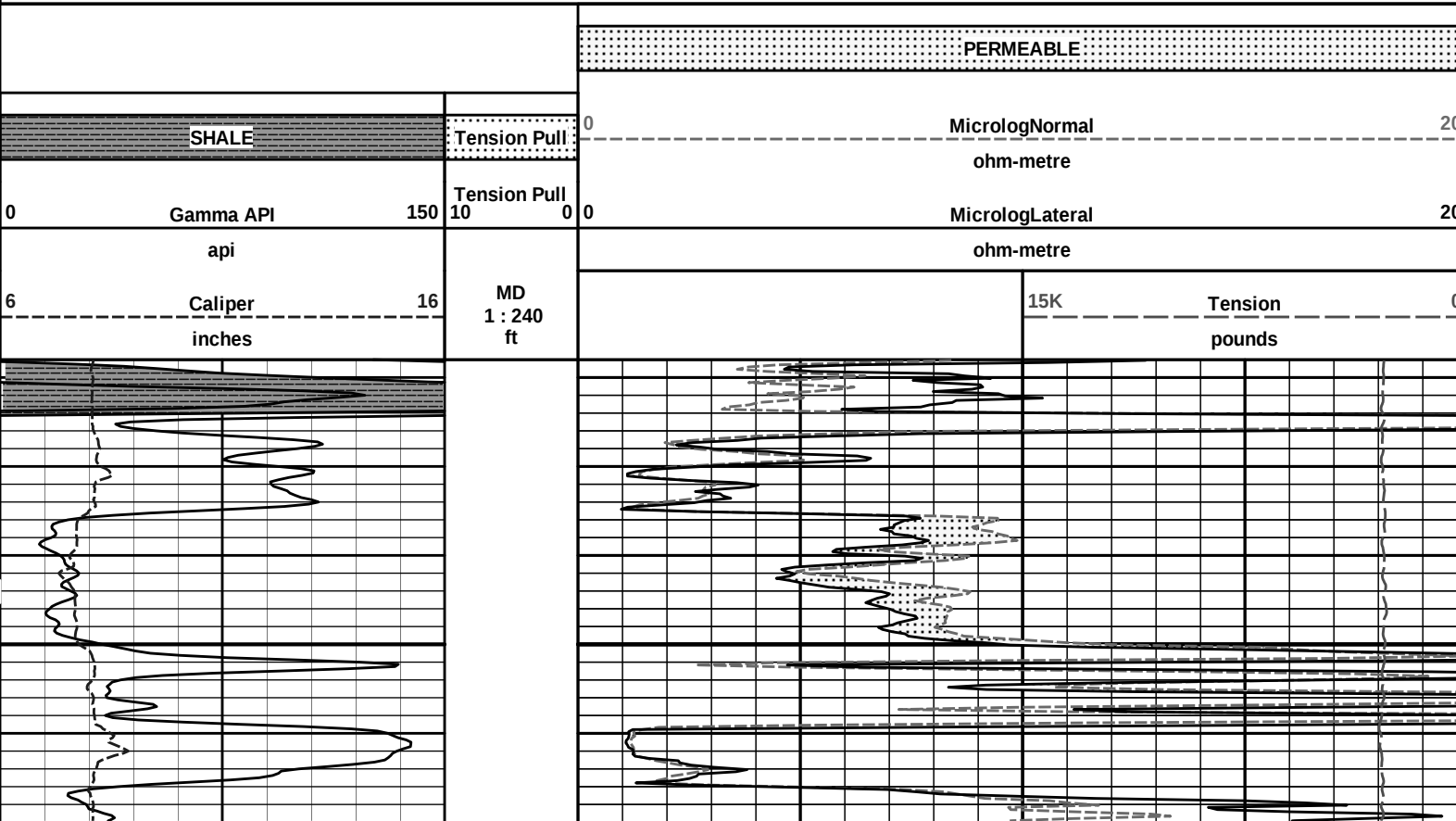
LOGGING DATA														
GENERAL			GAMMA			ACOUSTIC			DENSITY			NEUTRON		

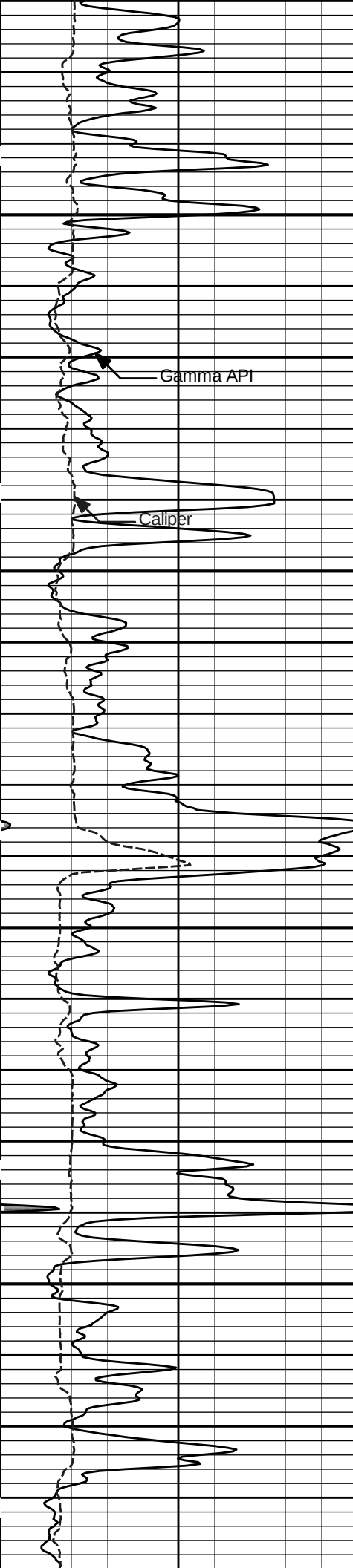
GENERAL			GAMMA		ACOUSTIC		DENSITY		NEUTRON					
Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix
No.	From	To	ft/min	L	R	L	R		L	R		L	R	
ONE	5478	4118	REC	0	150									
DIRECTIONAL INFORMATION														
Maximum Deviation @								KOP @						
Remarks: POST TOOL SURVEYS NOT PERFORMED DUE TO LOW TEMPERATURE														
LCM REPORTED AT 4 LB/BBL														
CHLORIDES REPORTED AT 4500 MG/L														
ANNULAR HOLE VOLUME CALCULATED FOR 5.5-INCH CASING														
TODAY'S CREW: B. TERREL & K. KING														
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES LIBERAL, KS. 620-624-8123														
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.														
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Plot Time: 06-Mar-12 01:17:13
Plot Range: 4118 ft to 5484.58 ft
Data: KELLS_H_1\Well Based\DETAIL\
Plot File: \\-LOCAL-\KELLS_H_1\0002 SP-GTET-DSN-SDL-BSAT-ACRT-CH\MICRO\Microlog_IQ_5_main.lib

5 INCH MAIN LOG



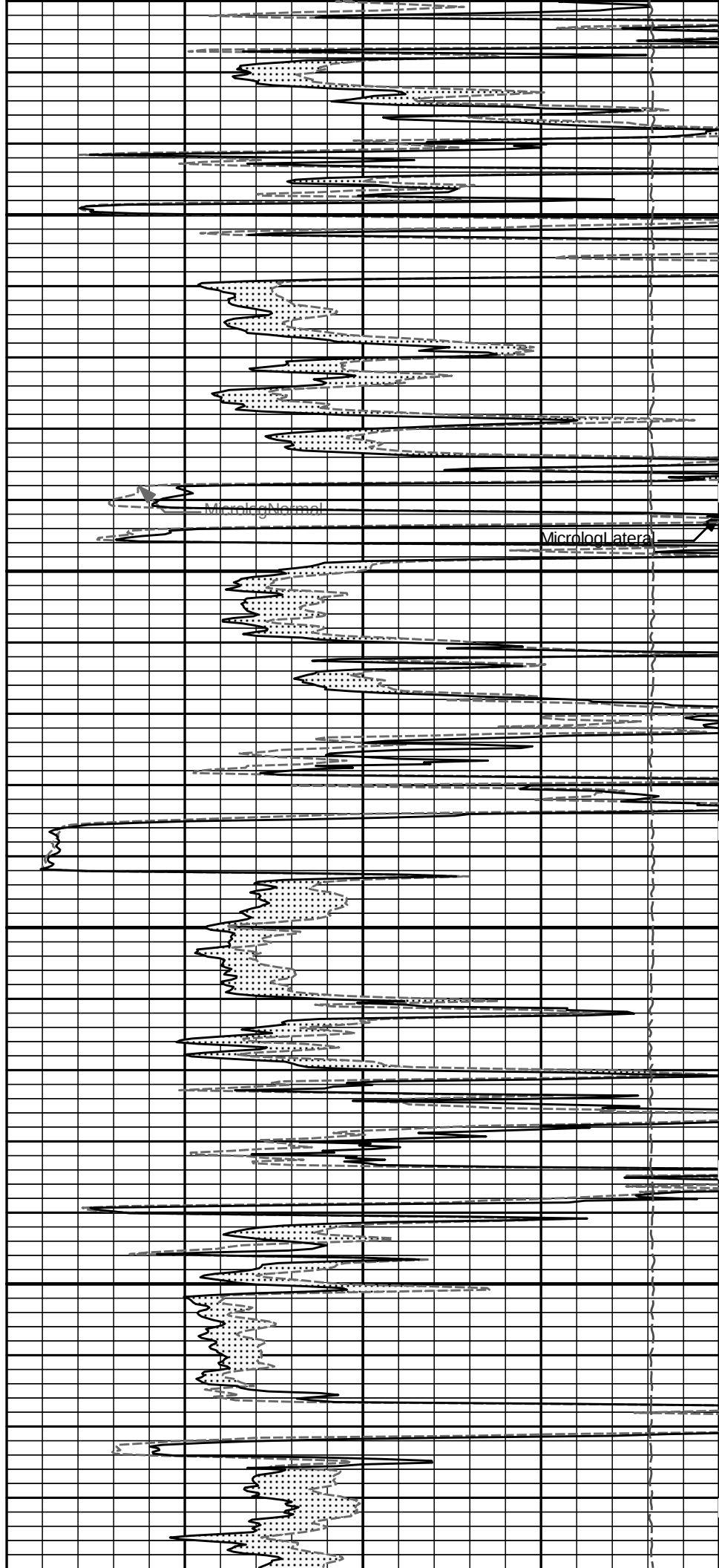


4200

Gamma API

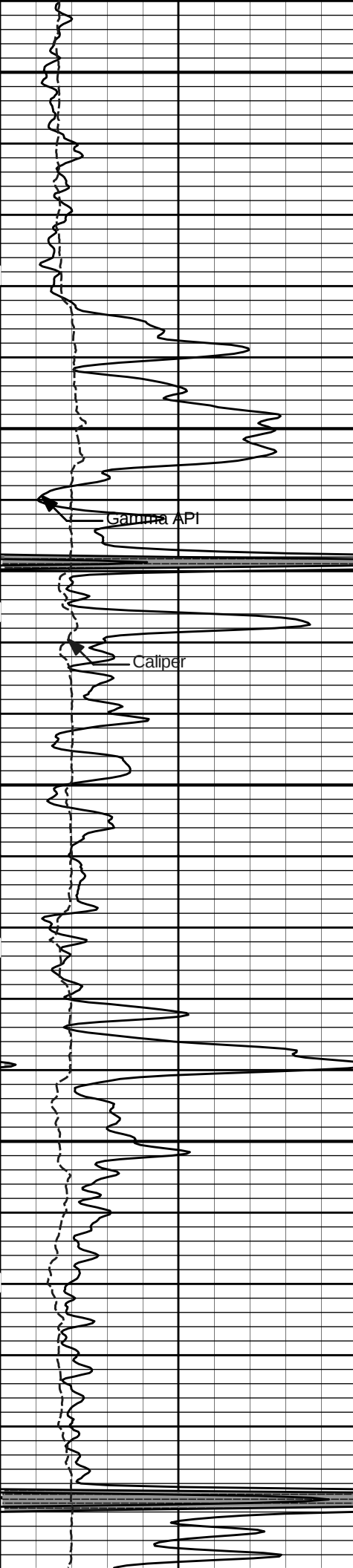
Caliper

4300



MicrologNormal

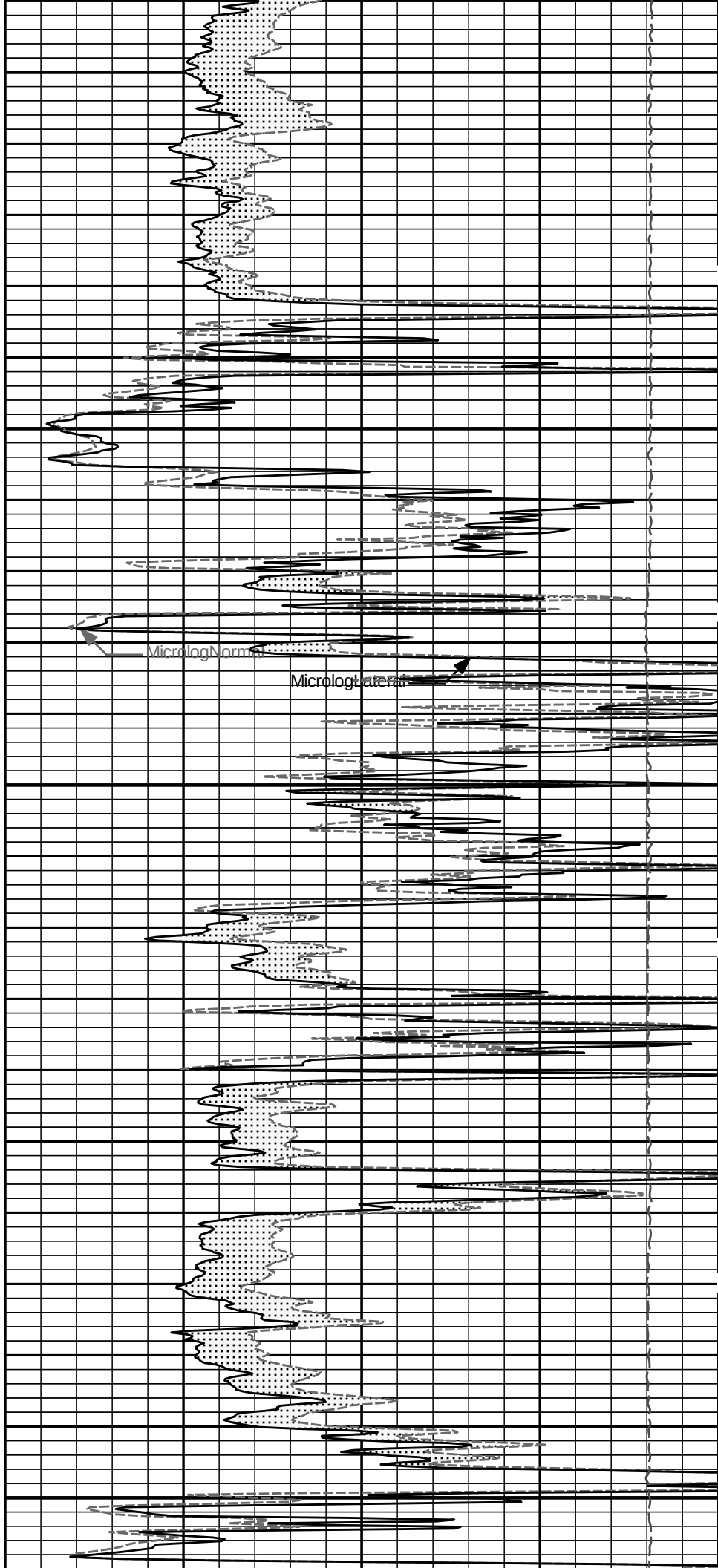
MicrologLateral

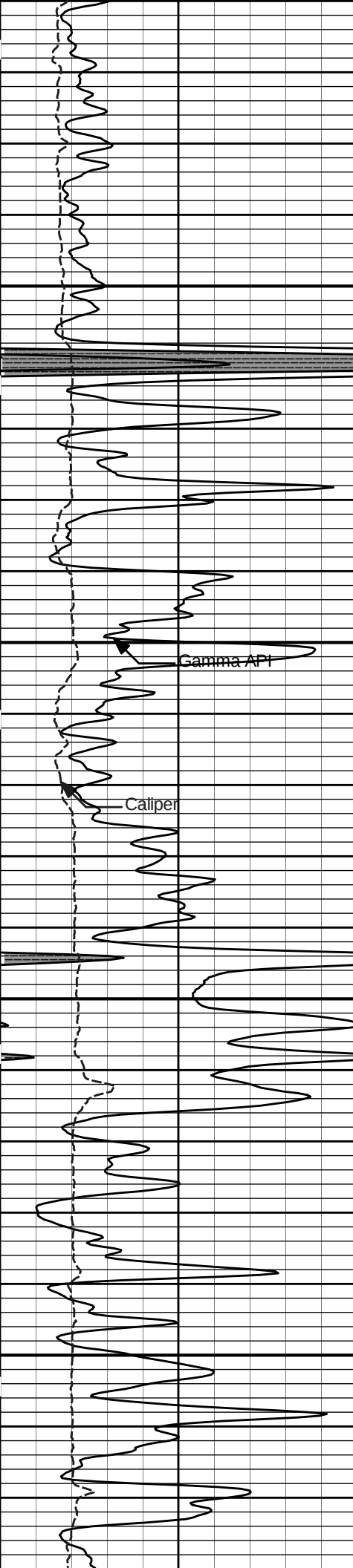


4400

4500

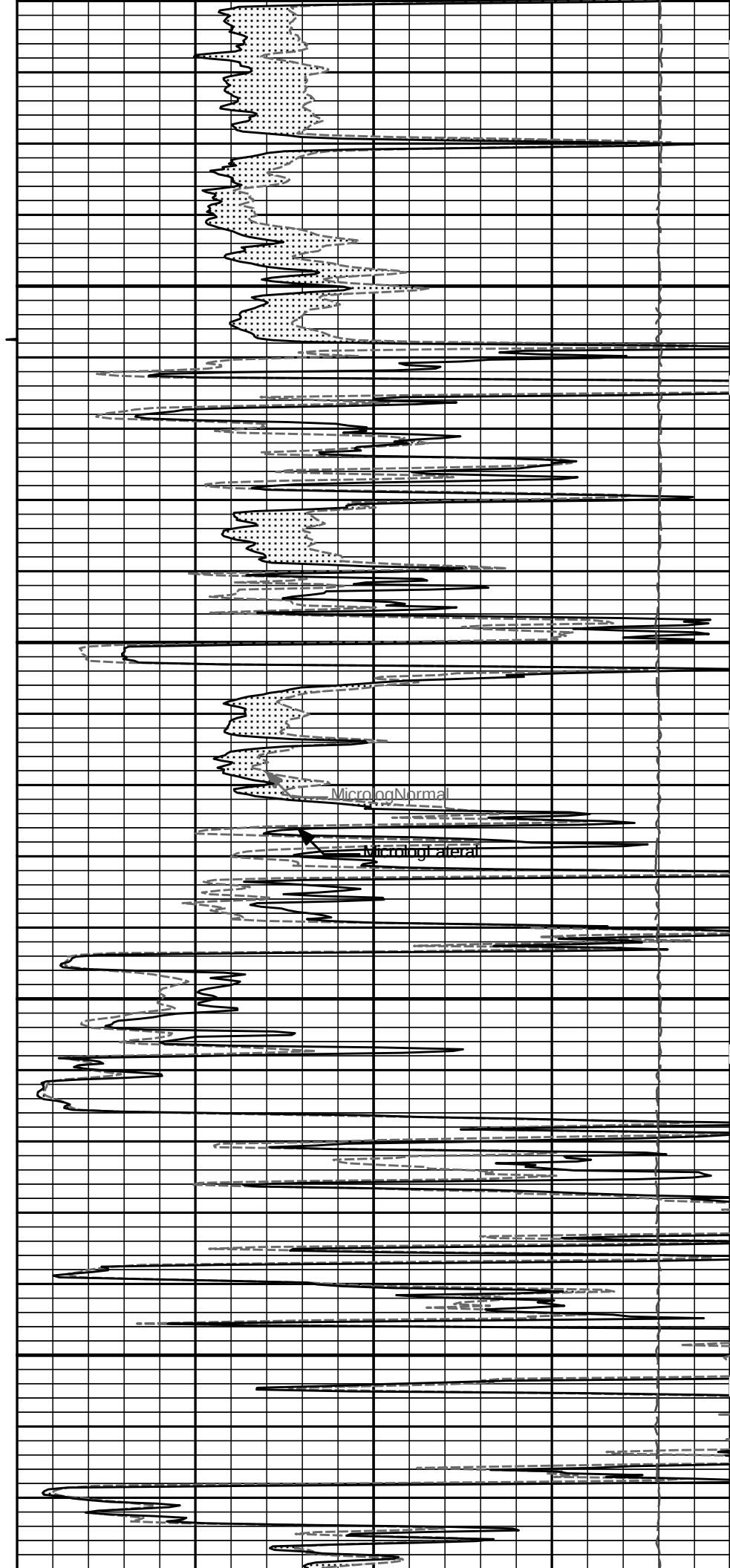
4600

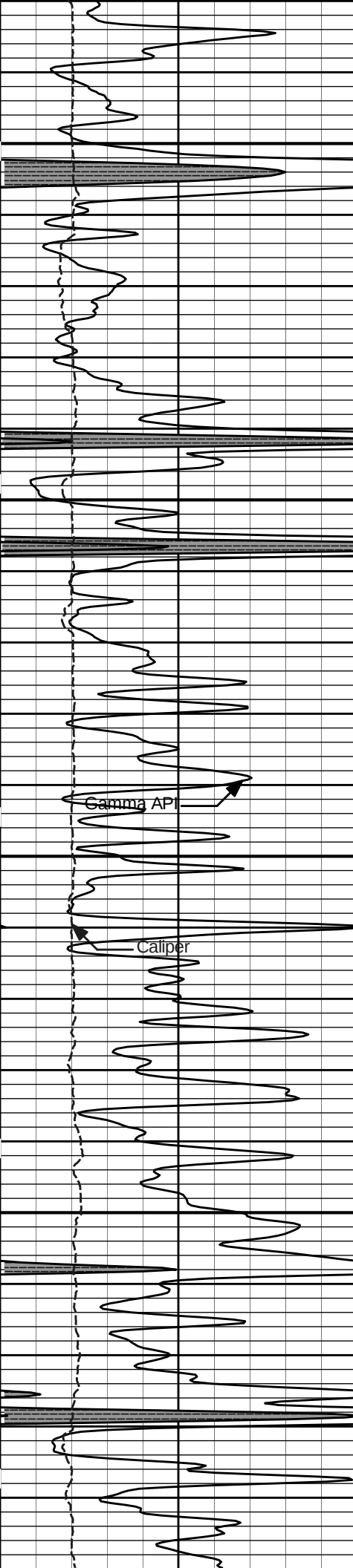




4700

4800



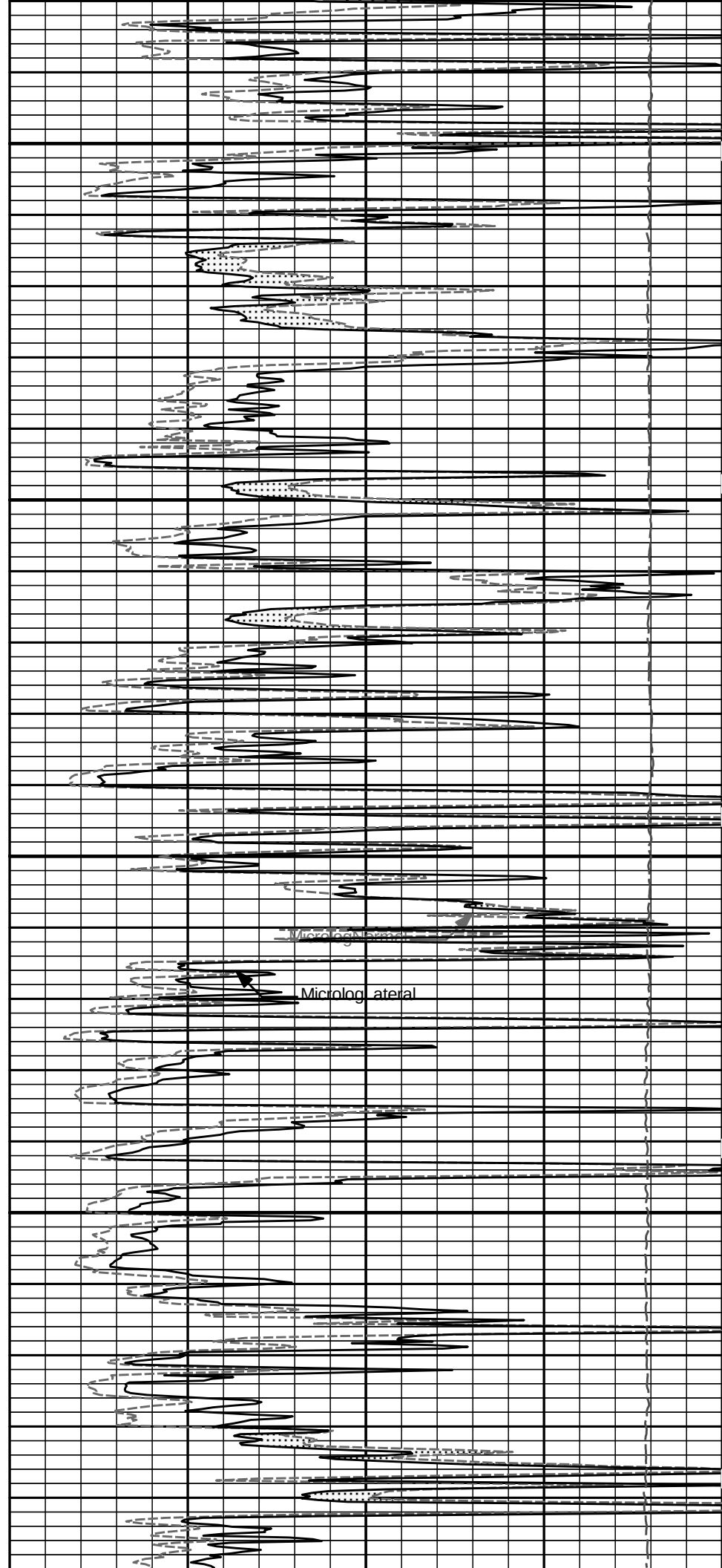


4900

5000

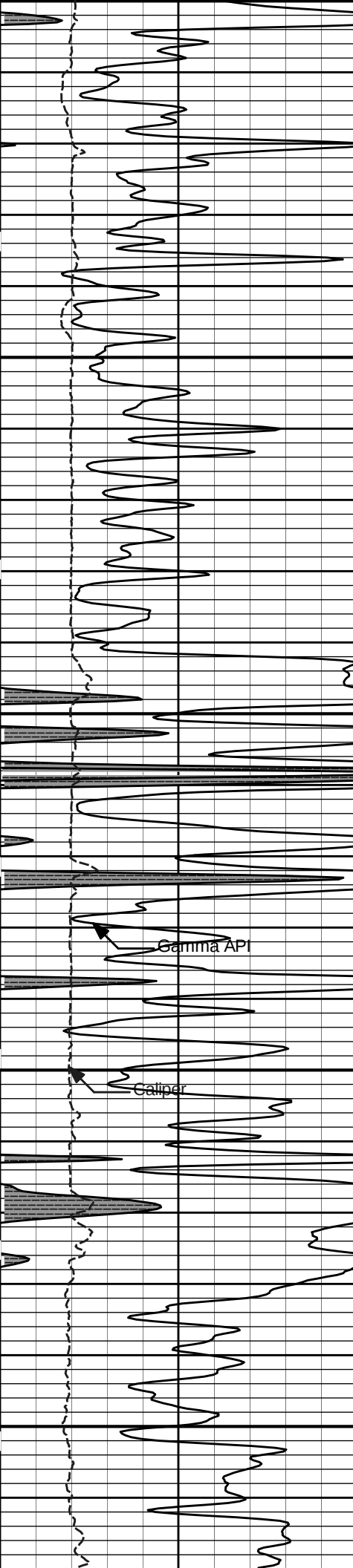
Gamma API

Caliper



Microlog lateral

Microlog lateral

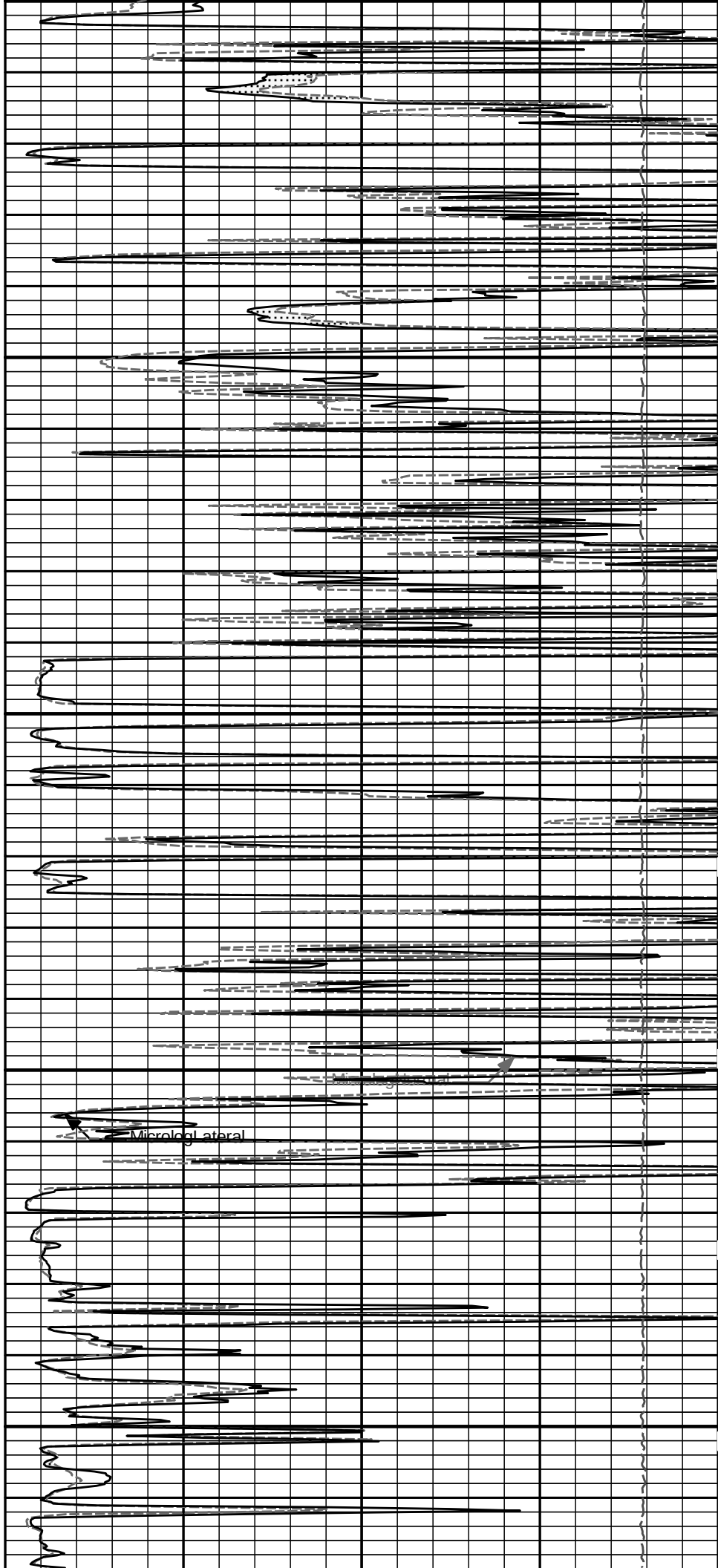


5100

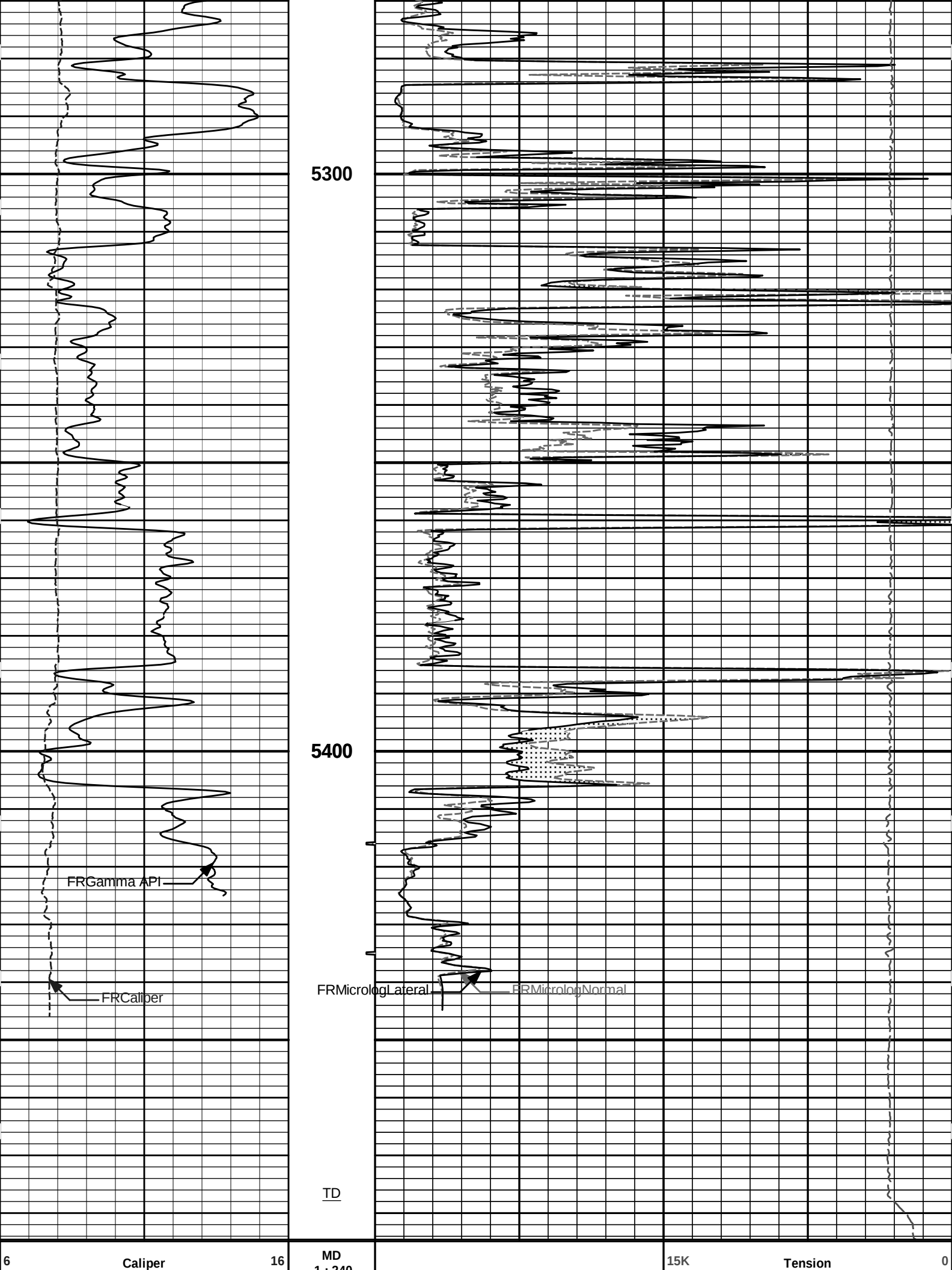
Gamma API

Caliper

5200



Microlog lateral



inches		1 : 240 ft				pounds	
0	Gamma API	150	Tension Pull 10	0	MicrologLateral		20
api				ohm-metre			
SHALE			Tension Pull	0	MicrologNormal		20
				ohm-metre			
				PERMEABLE			

HALLIBURTON

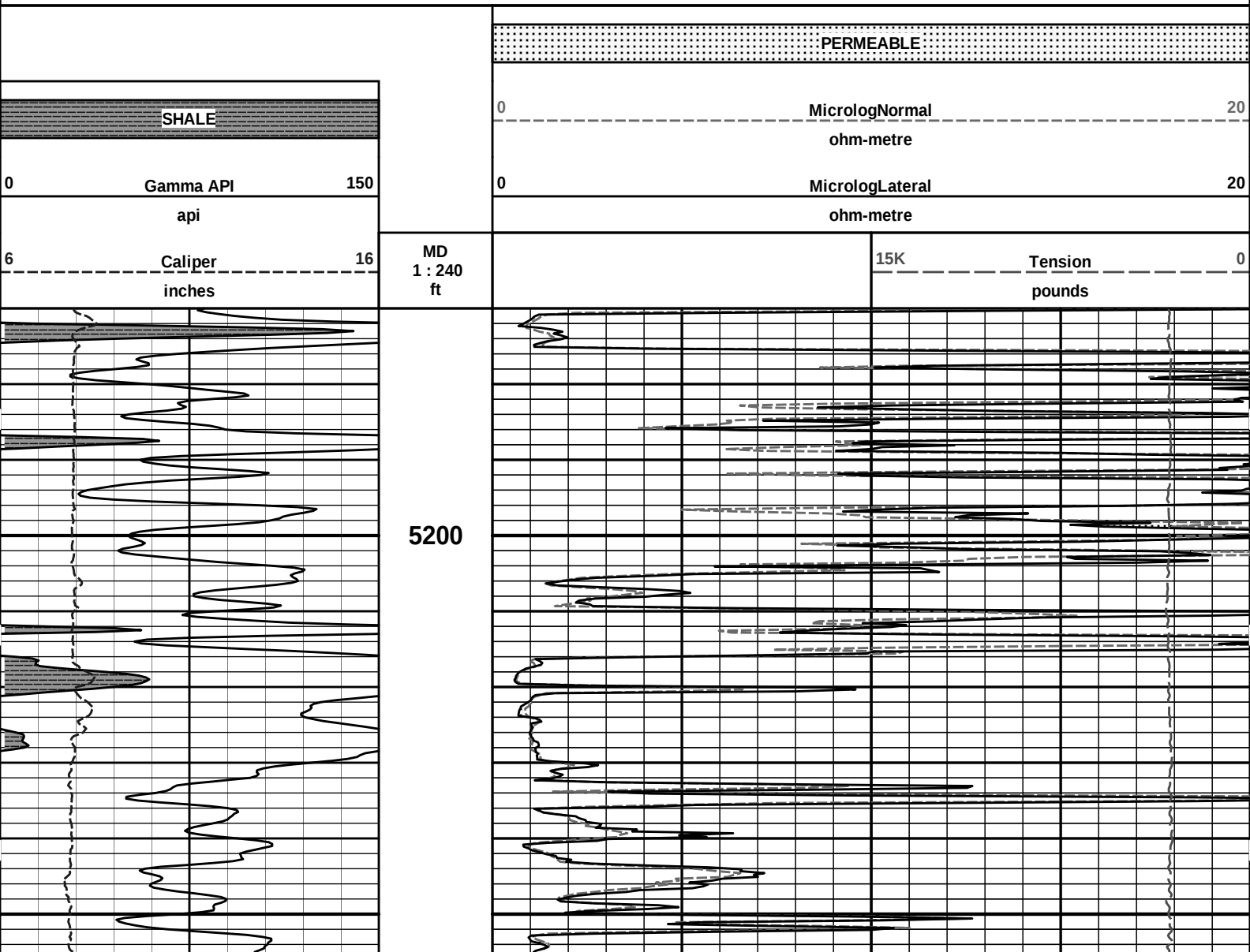
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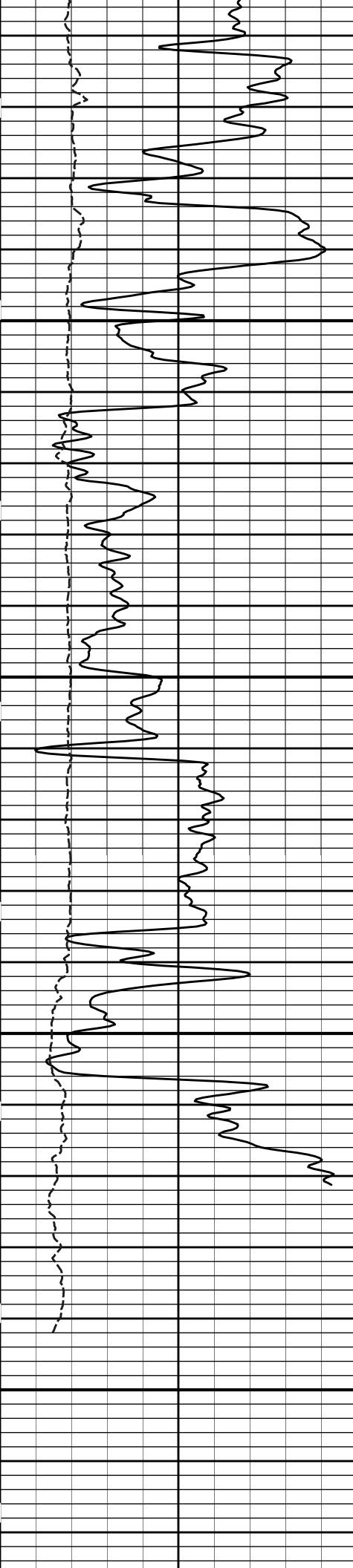
5 INCH MAIN LOG

HALLIBURTON

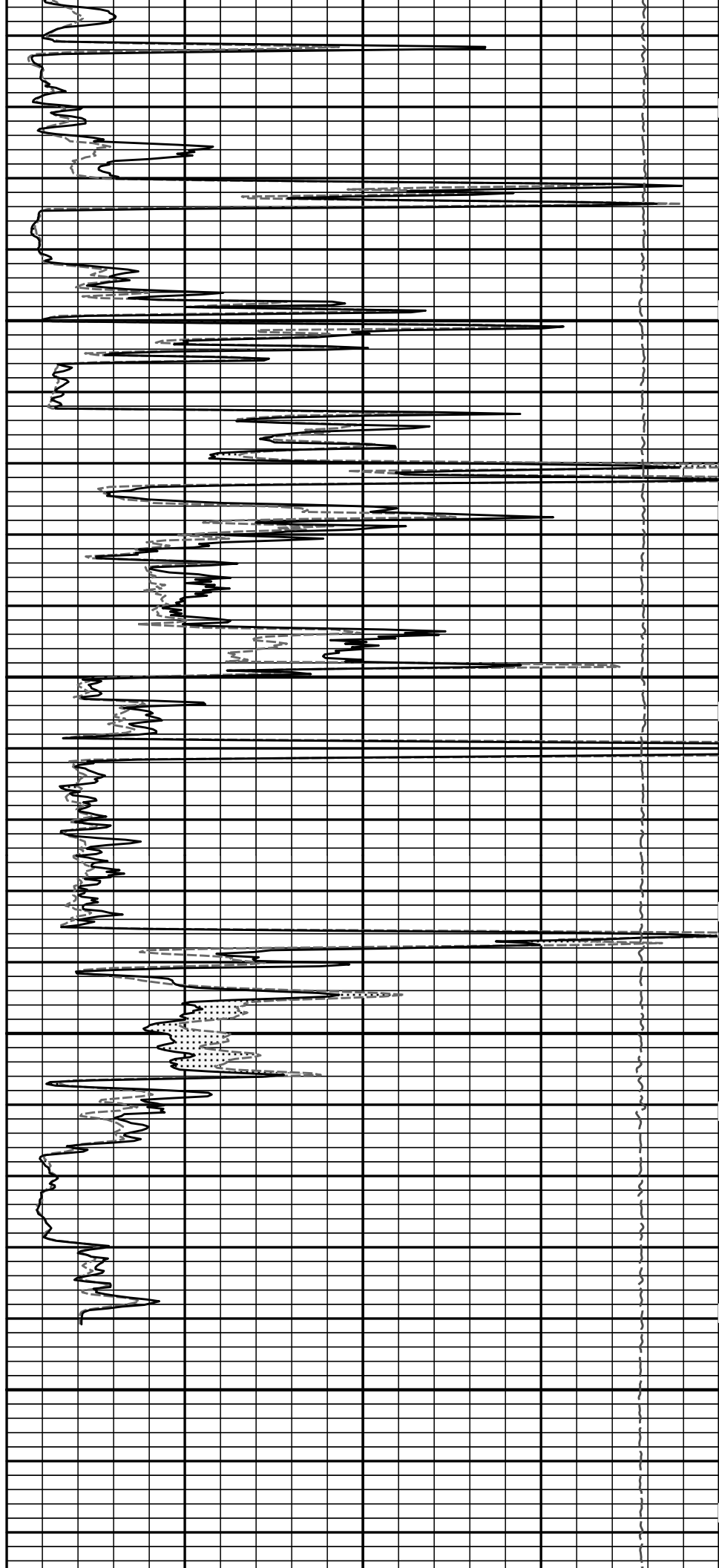
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Plot Range: 5170 ft to 5480.75 ft
Data: KELLS_H_1\Well Based\REPEAT\
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REPEAT SECTION

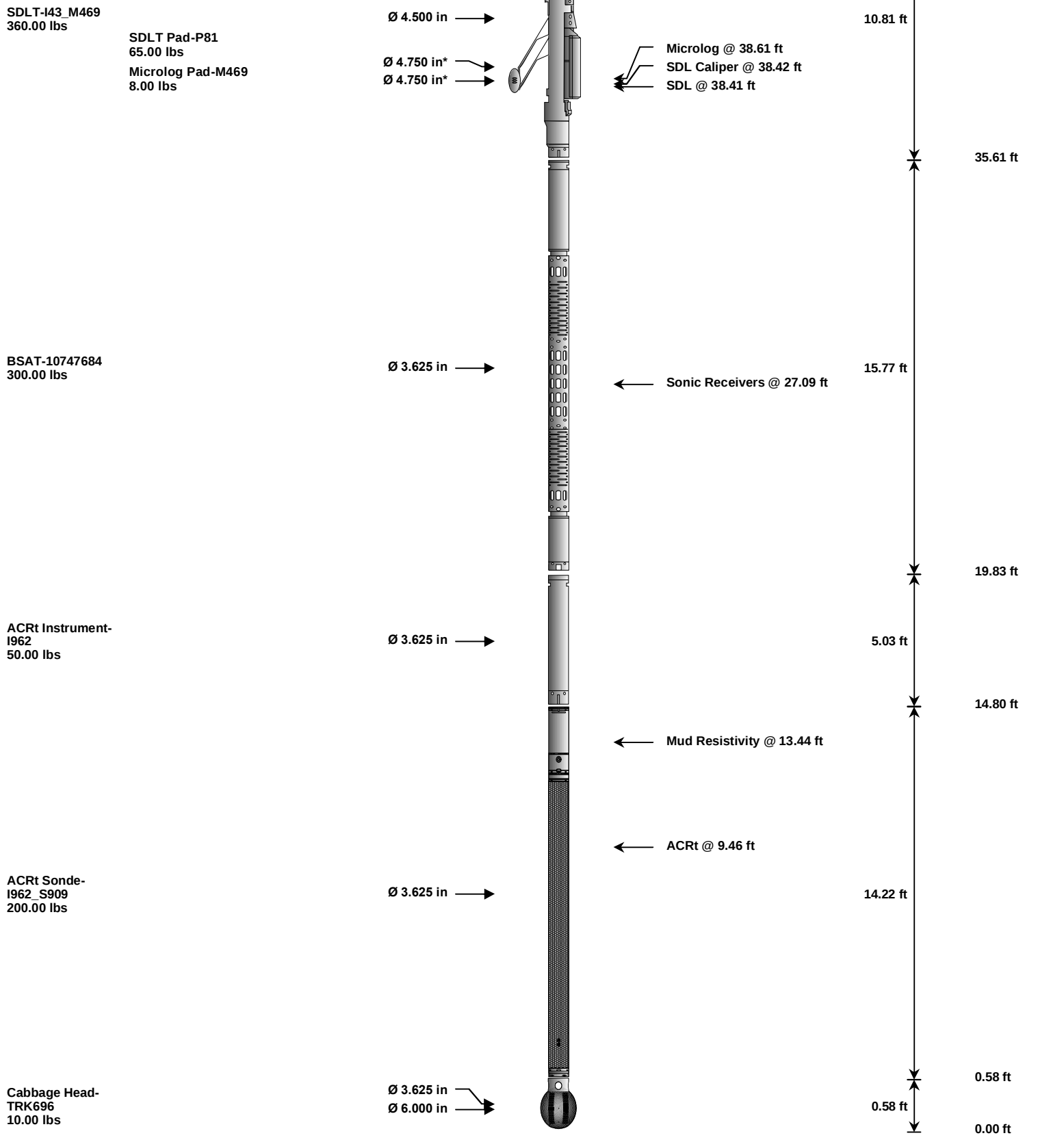




5300



5400



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_696	37.50	3.03	68.36	300.00
SP	SP Sub		001	60.00	3.74	64.63	300.00
GTET	Gamma Telemetry Tool		11039640	165.00	8.52	56.11	60.00
DSNT	Dual Spaced Neutron		11019643	174.00	9.69	46.42	60.00
DCNT	DSN Decentralizer		11005605	6.60	5.13	* 49.75	300.00
SDLT	Spectral Density Tool		I43_M469	360.00	10.81	35.61	60.00
MICP	Microlog Pad		M469	8.00	1.00	* 38.11	60.00
SDLP	Density Insite Pad		P81	65.00	2.55	* 37.82	60.00
BSAT	Borehole Sonic Array Tool		10747684	300.00	15.77	19.83	60.00
ACRT	Array Compensated True Resistivity Instrument Section		I962	50.00	5.03	14.80	300.00
ACRT	Array Compensated True Resistivity		I962_S909	200.00	14.22	0.58	300.00

ACRT	Acrt, Compensated Wds	100000	100000	100000	100000	100000
CBHD	Cabbage Head	TRK696	10.00	0.58	0.00	300.00
Total			1,436.10	71.39		
* Not included in Total Length and Length Accumulation.						
Data: KELLS_H_1\0001 SP-GTET-DSN-SDL-BSAT-ACRT-CH\IDLE					Date: 05-Mar-12 18:51:41	

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION				
Tool Name:	GTET - 11039640	Reference Calibration Date:	27-Jan-12 07:52:04	
Engineer:	C. MARLOWE	Calibration Date:	22-Feb-12 20:28:49	
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1	
Calibrator Source S/N: TB146				
Calibrator API Reference:265.00 api				
Equivalent Calibrator API Reference:269.6 api				
	Measurement	Measured	Calibrated	Units
	Background	48.5	48.8	api
	Background + Calibrator	316.6	318.4	api
	Calibrator	268.1	269.6	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION				
Tool Name:	GTET - 11039640	Reference Calibration Date:	22-Feb-12 20:28:49	
Engineer:	J. BOLLLOM	Calibration Date:	05-Mar-12 18:18:43	
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1	
Calibrator Source S/N: TB146				
Calibrator API Reference:265.00 api				
Equivalent Calibrator API Reference:269.6 api				
Field Verification		Shop	Field	Units
Background		48.8	52.9	api
Background + Calibrator		318.4	321.3	api
Calibrator		269.6	268.4	api
Shop		Field	Difference	Tolerance
269.6		268.4	1.2	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION				
Tool Name:	DSNT - 11019643		Reference Calibration Date:	16-Feb-12 08:54:03
Engineer:	C.PARKER		Calibration Date:	16-Feb-12 09:05:04
Software Version:	WL INSITE R3.4.2 (Build 2)		Calibration Version:	1
Logging Source S/N: 696				
Tank Serial Number: LIBERAL_NEUTRON				
Reference value assigned to Tank: 51.680				
Snow Block S/N: 696				
Calibration Tank Water Temperature: 62 degF				
Min. Tool Housing Outside Diameter: 3.625 in				
CALIBRATION CONSTANTS				
Measurement	Prev. Value	New Value	Control Limit On New Value	
Gain:	0.055	0.056	0.000	1.100

Gain: 0.955 0.956 0.900 - 1.100

WATER TANK SUMMARY (Horizontal Water Tank)				
Measurement	Current Reading (Previous Coef.)	Calibrated (New Coef.)	Change	Control Limit On Change
Porosity (decp):	0.2107	0.2110	0.0002	+/- 0.0020
Calibrated Ratio:	9.72	9.73	0.007	+/- 0.050

VERIFIER		
Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0734	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 - 11019643	Reference Calibration Date:	16-Feb-12 09:05:04
Engineer:	J. BOLLUM	Calibration Date:	05-Mar-12 18:24:07
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

Logging Source S/N: 696
Snow Block S/N: 696

NEUTRON FIELD-CHECK SUMMARY				
	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0734	0.0600	-0.0134	+/- 0.0150

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

DENSITY CALIPER SHOP CALIBRATION			
Tool Name:	SDLT - I43_M469	Reference Calibration Date:	16-Feb-12 10:03:14
Engineer:	C.PARKER	Calibration Date:	16-Feb-12 10:07:31
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

CALIBRATION COEFFICIENTS			
Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-1784.89	-1917.62	-7000.00 - -1000.00
Pad Gain	0.0003910	0.0003971	0.000200 - 0.000600
Arm Offset	-330.31	-137.08	-5000.00 - 3000.00
Arm Gain	0.0005187	0.0005069	0.000300 - 0.000700
Arm Power	-0.000006098	-0.000005316	-0.000010 - 0.000010

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)	3.74	3.75	0.01	+/- 0.20

RING DIAMETER:				
Small Ring (in)	6.50	6.50	0.00	+/- 0.20
Medium Ring (in)	8.28	8.25	-0.03	+/- 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 - I43_M469		Reference Calibration Date:	16-Feb-12 10:07:31
Engineer:	J. BOLLUM		Calibration Date:	05-Mar-12 18:28:58
Software Version:	WL INSITE R3.4.2 (Build 2)		Calibration Version:	1
MEASURED CALIPER VALUES				
Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.81	0.06	+/- 0.10
Ring Diameter	8.25	8.32	0.07	+/- 0.15
PASS/FAIL SUMMARY				
Pad Extension Check:		Passed		
Diameter Check:		Passed		

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION				
Tool Name:	ACRt Sonde - I962_S909		Reference Calibration Date:	24-Jan-12 09:31:40
Engineer:	C. HAVERKAMP		Calibration Date:	24-Feb-12 13:24:09
Software Version:	WL INSITE R3.4.2 (Build 2)		Calibration Version:	1

TYPICAL GAIN RANGE									
Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.0168	1.05	0.95	1.0229	1.05	0.95	1.0207	1.05
A2 (50")	0.95	1.0114	1.05	0.95	1.0172	1.05	0.95	1.0165	1.05
A3 (29")	0.95	1.0025	1.05	0.95	1.0075	1.05	0.95	1.0045	1.05
A4 (17")	0.95	1.0042	1.05	0.95	1.0069	1.05	0.95	1.0066	1.05
A5 (10")	N/A	N/A	N/A	0.95	1.0047	1.05	0.95	1.0023	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9883	1.05	0.95	0.9861	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	-0.741	2	-6	-4.230	-2	-8	-4.258	-2
A2 (50")	-7	-1.770	-1	-6	-3.669	-2	-7	-4.211	-2
A3 (29")	-27	-14.223	-9	-9	-4.442	-3	-7	-2.621	-1
A4 (17")	-180	-101.737	-60	-45	-30.295	-15	-39	-25.948	-13
A5 (10")	N/A	N/A	N/A	-150	-100.527	-50	-80	-45.910	-10
A6 (6")	N/A	N/A	N/A	175	282.721	525	90	148.160	270

TRANSMITTER CURRENT GAIN				R-MUD VERIFICATION			
Signal	Lower	R	Upper	Signal	Lower (ohm.m)	Measured (ohm.m)	Upper (ohm.m)

12K	0.6	0.8813	1.3	Mud Cell	0.95	1.002	1.05
36K	1.0	1.3484	2.0				
72K	1.0	1.5779	2.0				
SPECTRAL DENSITY SHOP CALIBRATION							
Tool Name:	SDLT Pad - P81			Reference Calibration Date:	16-Feb-12 09:32:29		
Engineer:	C.PARKER			Calibration Date:	16-Feb-12 09:50:51		
Software Version:	WL INSITE R3.4.2 (Build 2)			Calibration Version:	1		
Logging Source S/N: 5168GW							
Aluminum Block S/N: LIBERAL		Density: 2.598g/cc		Pe: 3.170			
Magnesium Block S/N: LIBERAL		Density: 1.684g/cc		Pe: 2.598			
DENSITY CALIBRATION SUMMARY							
Measurement		Previous Value	New Value	Control Limit			
Near Bar Gain		1.0007	1.0390	0.90 - 1.10			
Near Dens Gain		0.9863	1.0240	0.90 - 1.10			
Near Peak Gain		0.9638	1.0214	0.90 - 1.10			
Near Lith Gain		0.9505	0.9895	0.90 - 1.10			
Far Bar Gain		1.0070	1.0126	0.90 - 1.10			
Far Dens Gain		0.9953	1.0029	0.90 - 1.10			
Far Peak Gain		0.9892	0.9950	0.90 - 1.10			
Far Lith Gain		0.9673	0.9741	0.90 - 1.10			
Near Bar Offset		0.1494	-0.1966	NONE			
Near Dens Offset		0.2613	-0.0657	NONE			
Near Peak Offset		0.4387	-0.0378	NONE			
Near Lith Offset		0.5394	0.2188	NONE			
Far Bar Offset		0.0283	-0.0164	NONE			
Far Dens Offset		0.1237	0.0609	NONE			
Far Peak Offset		0.1380	0.0956	NONE			
Far Lith Offset		0.2818	0.2321	NONE			
Near Bar Background		823.63	824.58	700 - 1450			
Near Dens Background		269.31	269.85	230 - 480			
Near Peak Background		117.39	117.18	100 - 210			
Near Lith Background		146.50	146.84	125 - 260			
Far Bar Background		536.19	537.63	450 - 900			
Far Dens Background		209.96	210.26	175 - 345			
Far Peak Background		83.75	84.87	70 - 140			
Far Lith Background		88.57	87.09	75 - 145			
CALIBRATION BLOCK SUMMARY							
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change			
MAGNESIUM							
Density (g/cc)	1.679	1.684	0.005	+/- 0.015			
Pe	2.565	2.557	-0.008	+/- 0.150			
ALUMINUM							
Density (g/cc)	2.597	2.598	0.001	+/- 0.01500			
Pe	3.116	3.126	0.010	+/- 0.150			
TOOL SUMMARY							
Measurement	Near Detector		Far Detector				

	Value	Control Limits	Value	Control Limits
QUALITY				
Background	0.0011	+/- 0.0110	0.0000	+/- 0.0140
Magnesium Block	-0.0008	+/- 0.0110	-0.0013	+/- 0.0140
Aluminum Block	-0.0006	+/- 0.0110	-0.0011	+/- 0.0140
Resolution	9.43	6.00 - 11.50	8.92	6.00 - 11.50
Internal Verifier(B+D+P+L)	1358	1200 - 2700	920	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 - P81	Reference Calibration Date:	16-Feb-12 09:50:51
Engineer:	J. BOLLUM	Calibration Date:	05-Mar-12 18:18:49
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

Pad Temperature: 74.5 degF

DENSITY FIELD CALIBRATION SUMMARY				
Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1358.449	1358.934	0.485	14.900
Far (B+D+P+L) cps	919.854	929.193	9.339	16.438
Near Resolution	9.43	9.54	0.110	0.50
Far Resolution	8.92	9.32	0.400	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 - M469	Reference Calibration Date:	20-Jan-12 09:25:17
Engineer:	C.PARKER	Calibration Date:	16-Feb-12 10:13:03
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

CALIBRATION COEFFICIENT SUMMARY					
Measurement	Micro Log Normal		Micro Log Lateral		Units
	Measured	Calibrated	Measured	Calibrated	
Tool Zero	-0.06	-0.07	-0.06	-0.01	ohmm
Calibration Point #1	0.00	0.00	-0.04	0.00	ohmm
Calibration Point #2	20.03	20.00	20.01	20.00	ohmm
Internal Reference	19.97	19.94	20.00	19.99	ohmm

Measurement	Micro Log Normal Tool Value	Micro Log Lateral Tool Value	Units
Tool Zero	-0.02	0.03	V
Calibration Point #1	17.53	4.88	V

	Calibration Point #2	5362.47	7021.63	V
	Internal Reference	5346.02	7018.61	V

MICRO LOG FIELD CHECK					
Tool Name:	Microlog Pad - M469	Reference Calibration Date:	16-Feb-12 10:13:03		
Engineer:	J. BOLLUM	Calibration Date:	05-Mar-12 18:30:04		
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1		

	Measurement	Micro Log Normal		Micro Log Lateral		Units
		Shop	Field	Shop	Field	
	Tool Zero	-0.07	-0.07	-0.01	-0.01	ohmm
	Internal Reference	19.94	19.92	19.99	19.97	ohmm

Summary				
Signal	Shop	Field	Difference	Tolerance
Microlog Normal	19.94	19.92	0.02	+/- 0.80
Microlog Lateral	19.99	19.97	0.02	+/- 0.80

CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11039640						
Gamma Ray Calibrator	269.6	268.4	-----	1.2	+/- 9.00	api
DSNT-11019643						
Snow-Block Porosity	0.0734	0.0600	-----	0.0134	+/- 0.0150	decp
SDLT-I43_M469						
Pad Extension	3.75	3.81	-----	-0.06	+/-0.10	in
Ring Diameter	8.25	8.32	-----	-0.070	+/-0.15	in
ACRt Sonde-I962_S909						
Mud Cell	1.002	-----	-----	0.000	-----	ohm-m
SDLT Pad-P81						
Near(B+D+P+L)	1358.449	1358.934	-----	-0.485	+/-14.900	cps
Far(B+D+P+L)	919.854	929.193	-----	-9.339	+/-16.438	cps
Microlog Pad-M469						
MicroLog Normal	19.94	19.92	-----	0.02	+/-0.80	ohmm
MicroLog Lateral	19.99	19.97	-----	0.02	+/-0.80	ohmm

Data: KELS_H_1\0001 SP-GTET-DSN-SDL-BSAT-ACRT-CHIDLE	Date: 05-Mar-12 18:54:44
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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	9.700	ppg
	SHARED	WAGT	Weighting Agent	Natural	
	SHARED	BSAL	Borehole salinity	4500.00	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	5509.00	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	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	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	
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	
BSAT	MBOK	Compute BCAS Results?	Yes	
BSAT	FLLO	Frequency Filter Low Pass Value?	5000	Hz
BSAT	FLHI	Frequency Filter High Pass Value?	27000	Hz
BSAT	DTFL	Delta -T Fluid	189.00	uspf
BSAT	DTMT	Delta -T Matrix Type	User define	
BSAT	DTMA	Delta -T Matrix	47.60	uspf
BSAT	DTSH	Delta -T Shale	100.00	uspf
BSAT	SPEQ	Acoustic Porosity Equation	Wylie	
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	TPQS	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	
BOTTOM_____				
Data: KELS_H_1\0001 SP-GTET-DSN-SDL-BSAT-ACRT-CHIDLE			Date: 05-Mar-12 18:52:16	

HALLIBURTON				
INPUTS, DELAYS AND FILTERS TABLE				
Mnemonic	Input Description	Delay (ft)	Filter Type	Filter Length (ft)
Depth Panel				
TENS	Tension	0.00	NO	
CH_HOS				
DHTN	DownholeTension	0.00	BLK	0.000
SP Sub				
PLTC	Plot Control Mask	66.58	NO	
SP	Spontaneous Potential	66.58	BLK	1.250
SPR	Raw Spontaneous Potential	66.58	NO	
SPO	Spontaneous Potential Offset	66.58	NO	
GTET				
TPUL	Tension Pull	58.56	NO	
GR	Natural Gamma Ray API	58.56	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	58.56	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	58.56	W	1.416 , 0.750
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	
DSNT				
TPUL	Tension Pull	48.32	NO	
RNDS	Near Detector Telemetry Counts	48.42	BLK	1.417
RFDS	Far Detector Telemetry Counts	49.17	TRI	0.583
DNTT	DSN Tool Temperature	48.42	NO	
DSNS	DSN Tool Status	48.32	NO	
ERND	Near Detector Telemetry Counts EVR	48.42	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	49.17	BLK	0.000
ENTM	DSN Tool Temperature EVR	48.42	NO	
SDLT				
TPUL	Tension Pull	38.42	NO	
PCAL	Pad Caliper	38.42	TRI	0.250
ACAL	Arm Caliper	38.42	TRI	0.250
BSAT				
TPUL	Tension Pull	27.09	NO	
STAT	Status	27.09	NO	
DLYT	Delay Time	27.09	NO	
SI	Sample Interval	27.09	NO	
TXRX	Raw Telemetry 10 Receivers	27.09	NO	
FRMC	Tool Frame Count	27.09	NO	

FRMC	Tool Frame Count	27.09	NO	
ACRt Sonde				
TPUL	Tension Pull	2.97	NO	
F1R1	ACRT 12KHz - 80in R value	9.22	BLK	0.000
F1X1	ACRT 12KHz - 80in X value	9.22	BLK	0.000
F1R2	ACRT 12KHz - 50in R value	6.72	BLK	0.000
F1X2	ACRT 12KHz - 50in X value	6.72	BLK	0.000
F1R3	ACRT 12KHz - 29in R value	5.22	BLK	0.000
F1X3	ACRT 12KHz - 29in X value	5.22	BLK	0.000
F1R4	ACRT 12KHz - 17in R value	4.22	BLK	0.000
F1X4	ACRT 12KHz - 17in X value	4.22	BLK	0.000
F1R5	ACRT 12KHz - 10in R value	3.72	BLK	0.000
F1X5	ACRT 12KHz - 10in X value	3.72	BLK	0.000
F1R6	ACRT 12KHz - 6in R value	3.47	BLK	0.000
F1X6	ACRT 12KHz - 6in X value	3.47	BLK	0.000
F2R1	ACRT 36KHz - 80in R value	9.22	BLK	0.000
F2X1	ACRT 36KHz - 80in X value	9.22	BLK	0.000
F2R2	ACRT 36KHz - 50in R value	6.72	BLK	0.000
F2X2	ACRT 36KHz - 50in X value	6.72	BLK	0.000
F2R3	ACRT 36KHz - 29in R value	5.22	BLK	0.000
F2X3	ACRT 36KHz - 29in X value	5.22	BLK	0.000
F2R4	ACRT 36KHz - 17in R value	4.22	BLK	0.000
F2X4	ACRT 36KHz - 17in X value	4.22	BLK	0.000
F2R5	ACRT 36KHz - 10in R value	3.72	BLK	0.000
F2X5	ACRT 36KHz - 10in X value	3.72	BLK	0.000
F2R6	ACRT 36KHz - 6in R value	3.47	BLK	0.000
F2X6	ACRT 36KHz - 6in X value	3.47	BLK	0.000
F3R1	ACRT 72KHz - 80in R value	9.22	BLK	0.000
F3X1	ACRT 72KHz - 80in X value	9.22	BLK	0.000
F3R2	ACRT 72KHz - 50in R value	6.72	BLK	0.000
F3X2	ACRT 72KHz - 50in X value	6.72	BLK	0.000
F3R3	ACRT 72KHz - 29in R value	5.22	BLK	0.000
F3X3	ACRT 72KHz - 29in X value	5.22	BLK	0.000
F3R4	ACRT 72KHz - 17in R value	4.22	BLK	0.000
F3X4	ACRT 72KHz - 17in X value	4.22	BLK	0.000
F3R5	ACRT 72KHz - 10in R value	3.72	BLK	0.000
F3X5	ACRT 72KHz - 10in X value	3.72	BLK	0.000
F3R6	ACRT 72KHz - 6in R value	3.47	BLK	0.000
F3X6	ACRT 72KHz - 6in X value	3.47	BLK	0.000
RMUD	Mud Resistivity	12.76	BLK	0.000
F1RT	Transmitter Reference 12 KHz Real Signal	2.97	BLK	0.000
F1XT	Transmitter Reference 12 KHz Imaginary Signal	2.97	BLK	0.000
F2RT	Transmitter Reference 36 KHz Real Signal	2.97	BLK	0.000
F2XT	Transmitter Reference 36 KHz Imaginary Signal	2.97	BLK	0.000
F3RT	Transmitter Reference 72 KHz Real Signal	2.97	BLK	0.000
F3XT	Transmitter Reference 72 KHz Imaginary Signal	2.97	BLK	0.000
TFPU	Upper Feedpipe Temperature Calculated	2.97	BLK	0.000
TFPL	Lower Feedpipe Temperature Calculated	2.97	BLK	0.000
ITMP	Instrument Temperature	2.97	BLK	0.000
TCVA	Temperature Correction Values Loop Off	2.97	NO	
TIDV	Instrument Temperature Derivative	2.97	NO	
TUDV	Upper Temperature Derivative	2.97	NO	
TLDV	Lower Temperature Derivative	2.97	NO	
TRBD	Receiver Board Temperature	2.97	NO	
GRIPER				

SDLT Pad				
TPUL	Tension Pull	38.41	NO	
NAB	Near Above	38.24	BLK	0.920
NHI	Near Cesium High	38.24	BLK	0.920
NLO	Near Cesium Low	38.24	BLK	0.920
NVA	Near Valley	38.24	BLK	0.920
NBA	Near Barite	38.24	BLK	0.920
NDE	Near Density	38.24	BLK	0.920
NPK	Near Peak	38.24	BLK	0.920
NLI	Near Lithology	38.24	BLK	0.920
NBAU	Near Barite Unfiltered	38.24	BLK	0.250
NLIU	Near Lithology Unfiltered	38.24	BLK	0.250
FAB	Far Above	38.58	BLK	0.250
FHI	Far Cesium High	38.58	BLK	0.250
FLO	Far Cesium Low	38.58	BLK	0.250
FVA	Far Valley	38.58	BLK	0.250
FBA	Far Barite	38.58	BLK	0.250
FDE	Far Density	38.58	BLK	0.250
FPK	Far Peak	38.58	BLK	0.250
FLI	Far Lithology	38.58	BLK	0.250
PTMP	Pad Temperature	38.42	BLK	0.920
NHV	Near Detector High Voltage	37.81	NO	
FHV	Far Detector High Voltage	37.81	NO	
ITMP	Instrument Temperature	37.81	NO	
DDHV	Detector High Voltage	37.81	NO	
Microlog Pad				
TPUL	Tension Pull	38.60	NO	
MINV	Microlog Lateral	38.60	BLK	0.750
MNOR	Microlog Normal	38.60	BLK	0.750
Data: KELLS_H_110001 SP-GTET-DSN-SDL-BSAT-ACRT-CH1DLE			Date: 05-Mar-12 18:52:37	

COMPANY	OXY USA INC		
WELL	KELLS H-1		
FIELD	PLEASANT PRARIE SE		
COUNTY	HASKELL	STATE	KANSAS
HALLIBURTON		MICROLOG	