

HALLIBURTON

DUAL SPACED NEUTRON SPECTRAL DENSITY LOG

HALLIBURTON										DUAL SPACED NEUTRON SPECTRAL DENSITY LOG														
COMPANY					SANDRIDGE ENERGY					COMPANY					SANDRIDGE ENERGY									
WELL					KYLIE ROSE SWD 3305 1-28					WELL					KYLIE ROSE SWD 3305 1-28									
FIELD					UNKNOWN					FIELD					UNKNOWN									
COUNTY					HARPER					COUNTY					HARPER									
STATE					KANSAS					STATE					KANSAS									
Permanent Datum					GL					Sect. 28					Twp. 33S					Rge. 5W				
Log measured from					KB					Location					250' FNL 2398' FWL LAT 37.15° N LONG 97.86° W					Other Services: ACRT MICRO WSTT MRIL				
Drilling measured from					KB															Elev.: K.B. 1321.0 ft D.F. 1319.0 ft G.L. 1305.0 ft				
Date					15-Aug-12																			
Run No.					ONE																			
Depth - Driller					5300.00 ft																			
Depth - Logger					5280.0 ft																			
Bottom - Logged Interval					5197.0 ft																			
Top - Logged Interval					2800.0 ft																			
Casing - Driller					9.625 in @ 570.0 ft															@				
Casing - Logger					587.0 ft																			
Bit Size					8.750 in															@				
Type Fluid in Hole					WATER BASED MUD																			
Density					9.1 ppg					51.00 s/qt														
PH					8.50 pH					6.5 cp/m														
Source of Sample					FLOW LINE																			
Rm @ Meas. Temperature					0.480 ohmm @ 75.00 degF															@				
Rmf @ Meas. Temperature					0.39 ohmm @ 75.00 degF															@				
Rmc @ Meas. Temperature					0.570 ohmm @ 75.00 degF															@				
Source Rmf					MEASURED					MEASURED														
Rm @ BHT					0.31 ohmm @ 118.0 degF															@				
Time Since Circulation					8.0 hr																			
Time on Bottom					15-Aug-12 13:03																			
Max. Rec. Temperature					118.0 degF @ 5280.0 ft															@				
Equipment					10546696					LIBERAL														
Recorded By					T. HYDE																			
Witnessed By					M. BRITO																			

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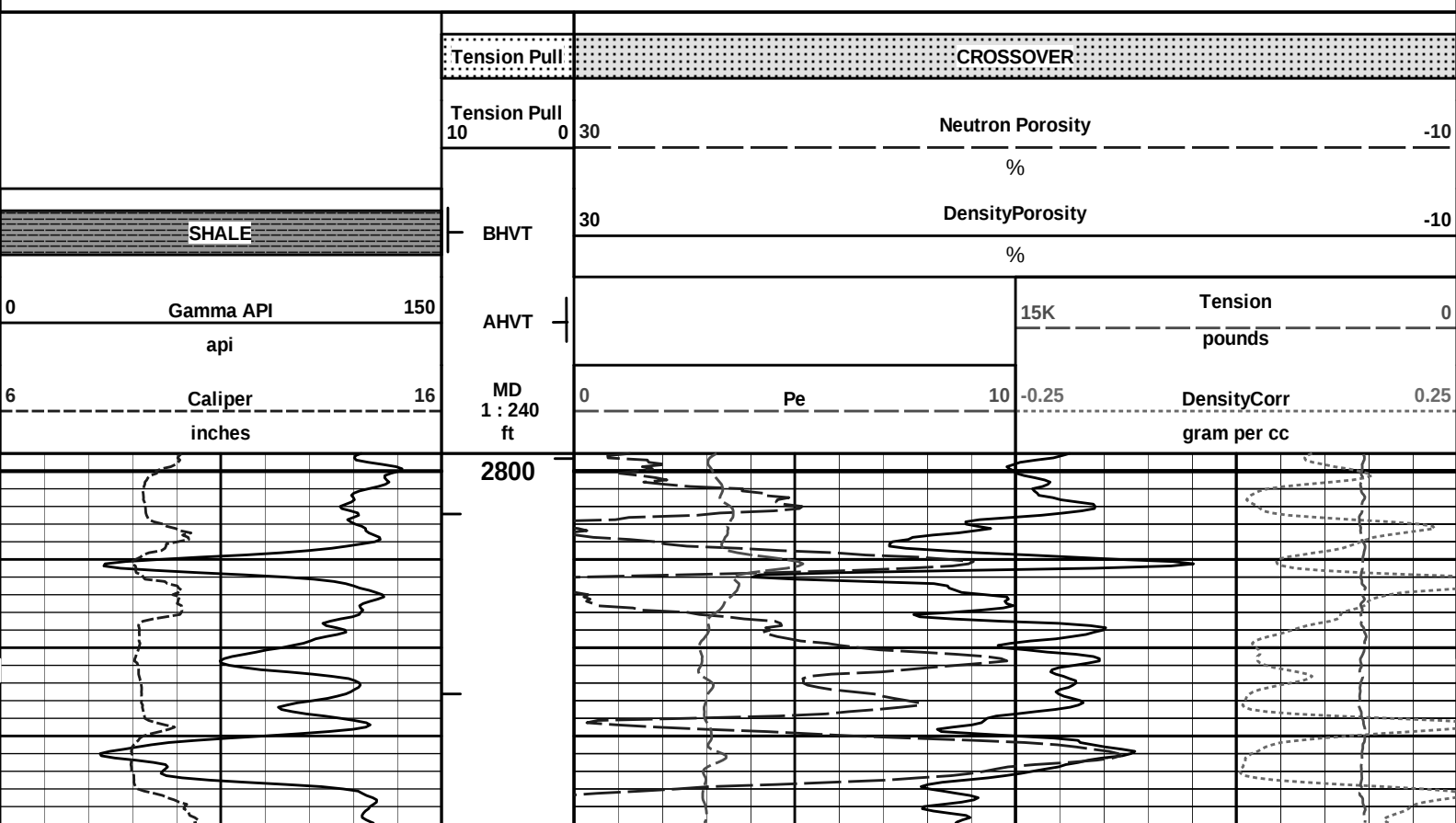
Service Ticket No.: 9744232						API Serial No.: 15-077-21870						PGM Version: WL INSITE R3.6.0 (Build 3)																	
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE												RESISTIVITY SCALE CHANGES																	
Date		Sample No.										Type Log		Depth		Scale Up Hole				Scale Down Hole									
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.		ONE				Run No.						Run No.		ONE				Run No.		ONE									
Serial No.		11048627				Serial No.						Serial No.		I43_M489				Serial No.		11019643									
Model No.		GTET				Model No.						Model No.		SDLT				Model No.		DSNT									
Diameter		3.625"				No. of Cent.						Diameter		4.5"				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.		5168 GW				Serial No.		DSN-424									
Distance to Source		10'				FWDA [Y/N]						Strength		1.5 Ci				Strength		15 Ci									

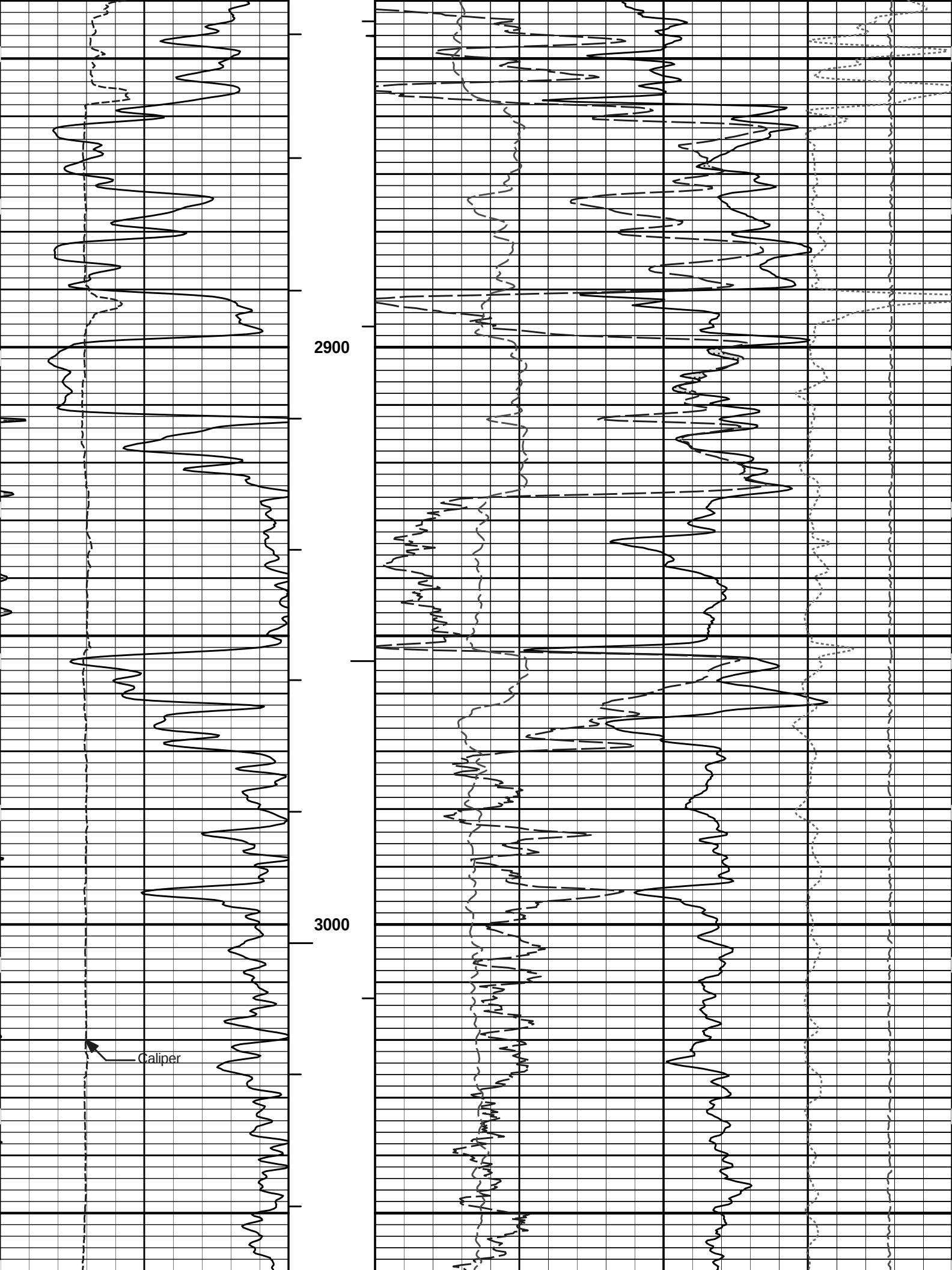
GENERAL			GAMMA		ACOUSTIC		DENSITY		NEUTRON					
Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix
No.	From	To	ft/min	L	R	L	R		L	R		L	R	
ONE	5280	2800	REC	0	150				30	-10	2.71	30	-10	LIME
DIRECTIONAL INFORMATION														
Maximum Deviation @									KOP @					
Remarks: ANNULAR HOLE VOLUME CALCULATED FOR 7 INCH CASING														
CHLORIDES REPORTED AT 8000 MG/L														
TODAY'S CREW V. JAIME K. KING														
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES LIBERAL, KANSAS 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.														
HALLIBURTON														

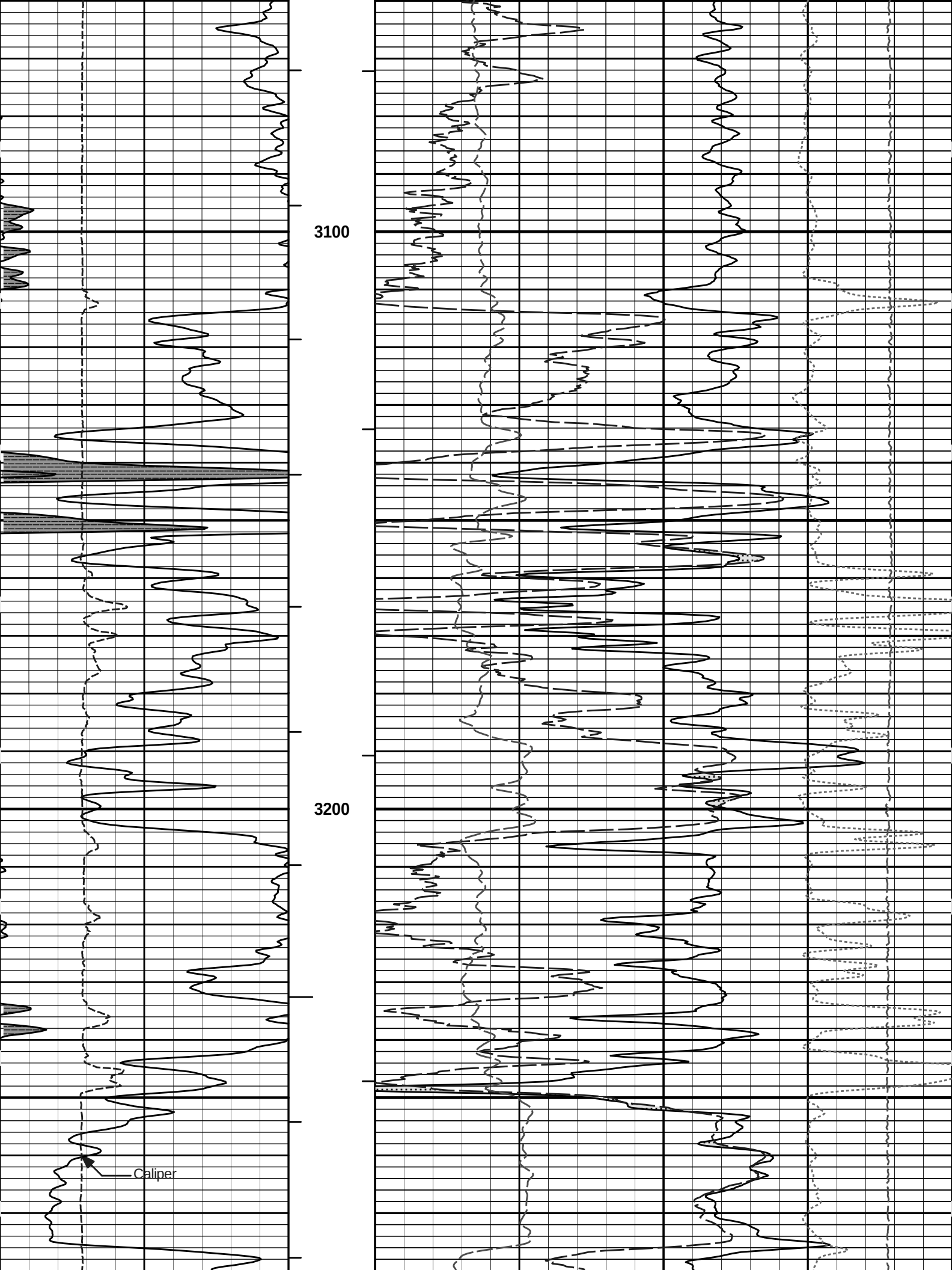
HALLIBURTON

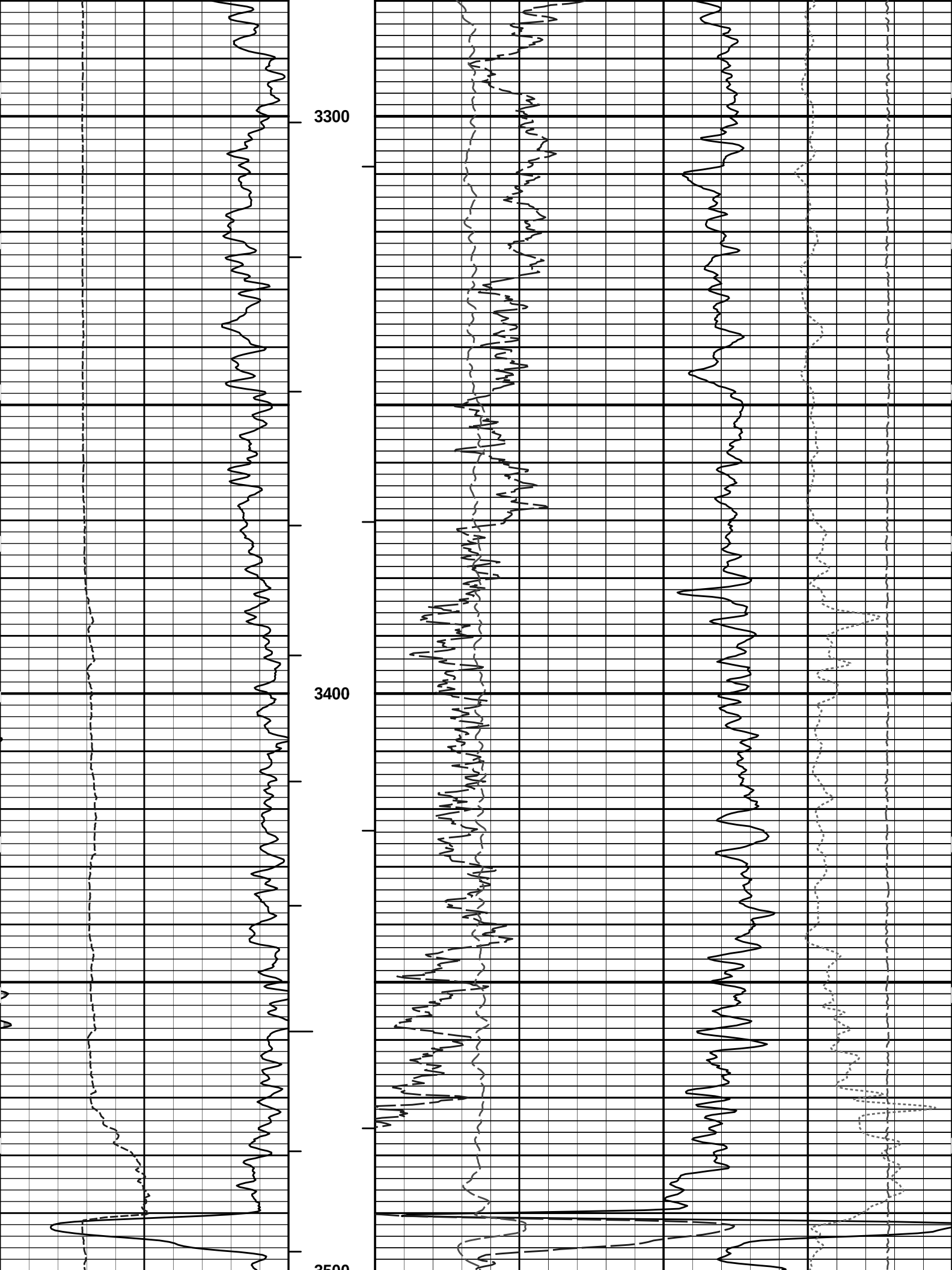
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Data: KYLIE_ROSE_3305\Well Based\DAQ-0001-004\
Plot File: \\PORO\Poros IQ 5 MAIN LIB

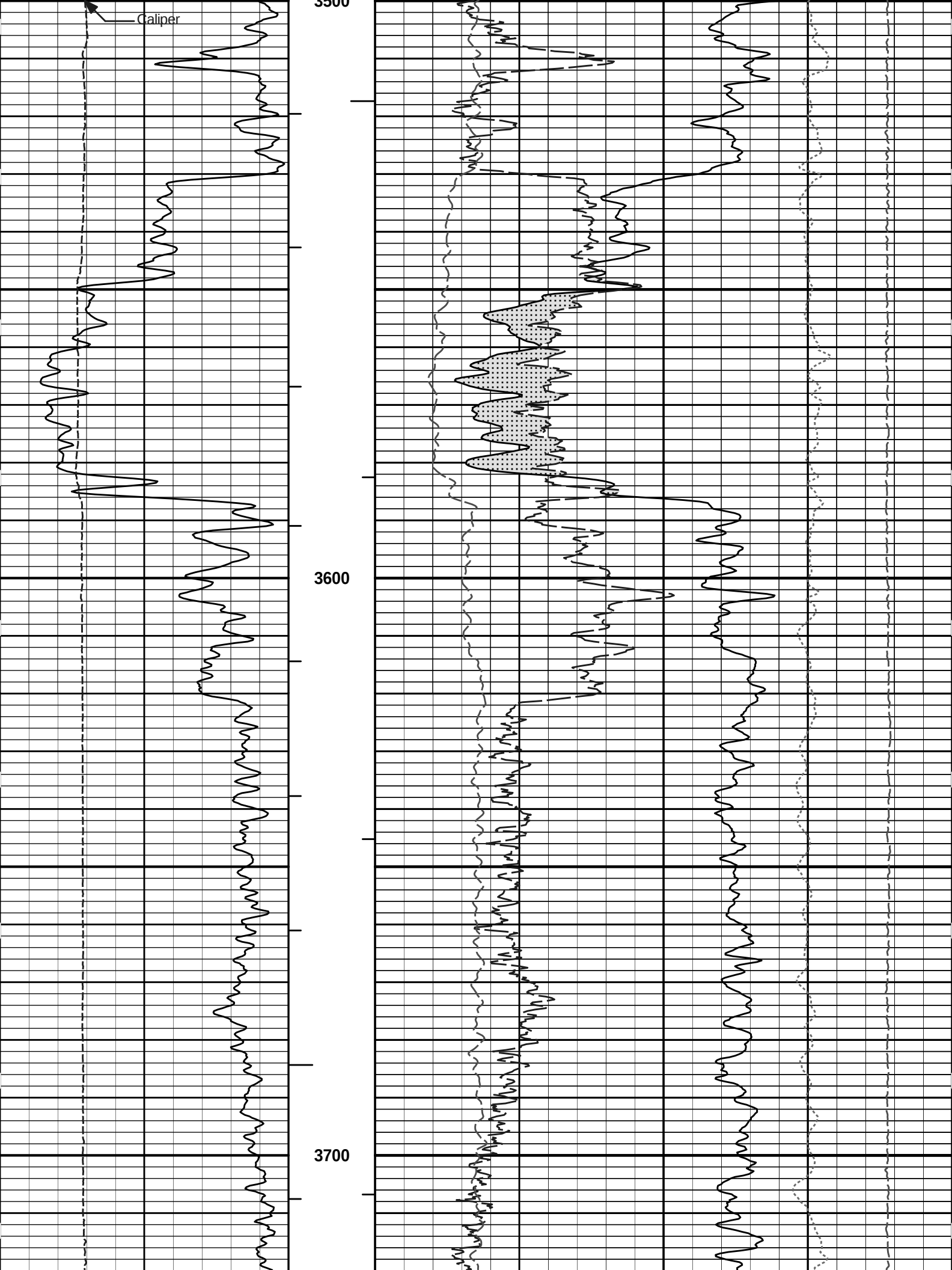
5 INCH MAIN LOG

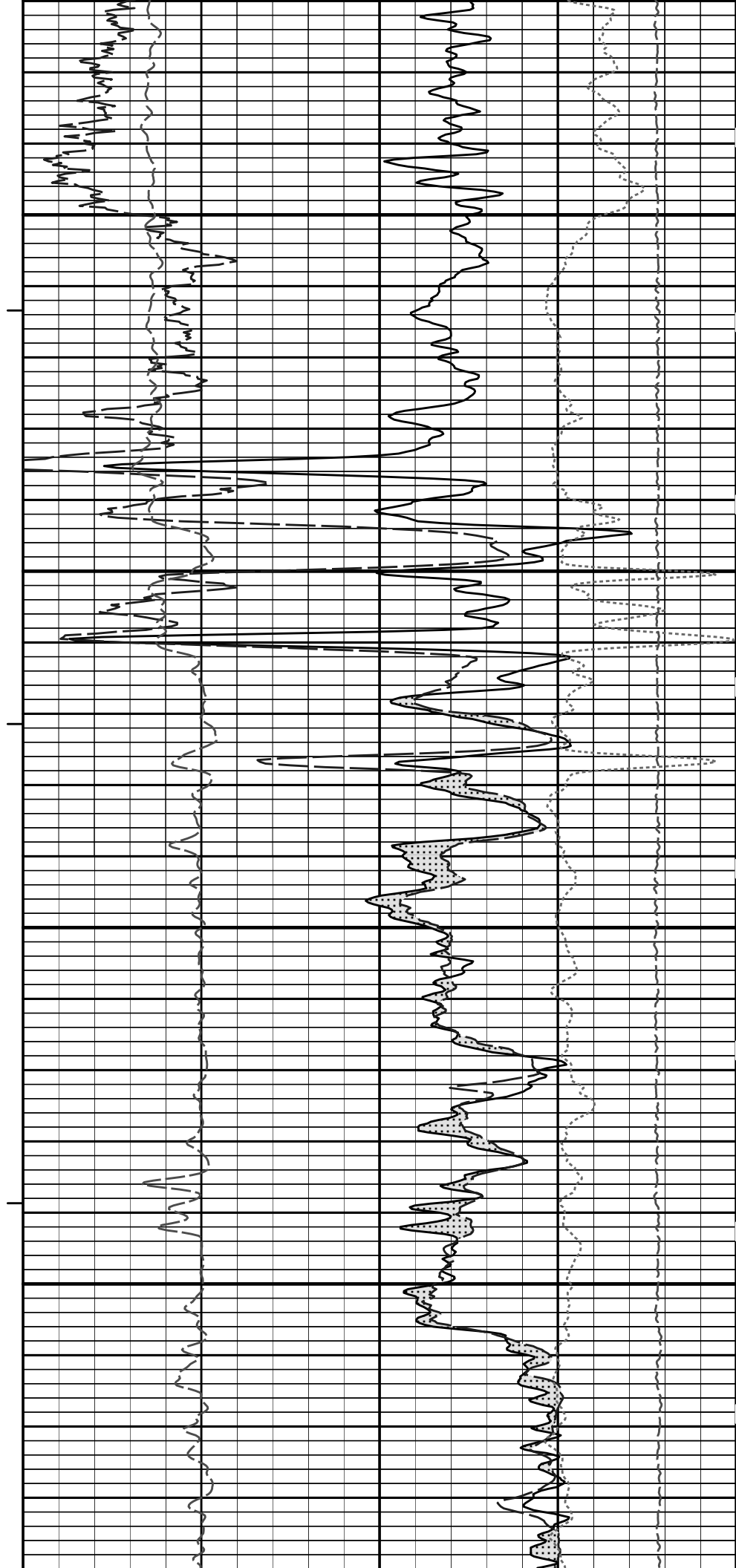
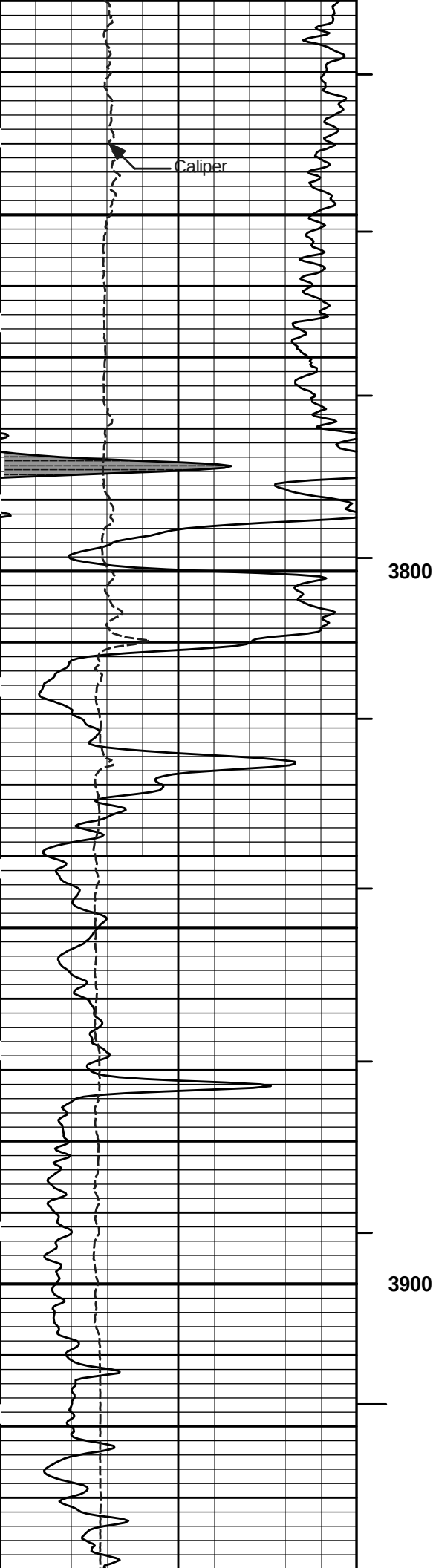


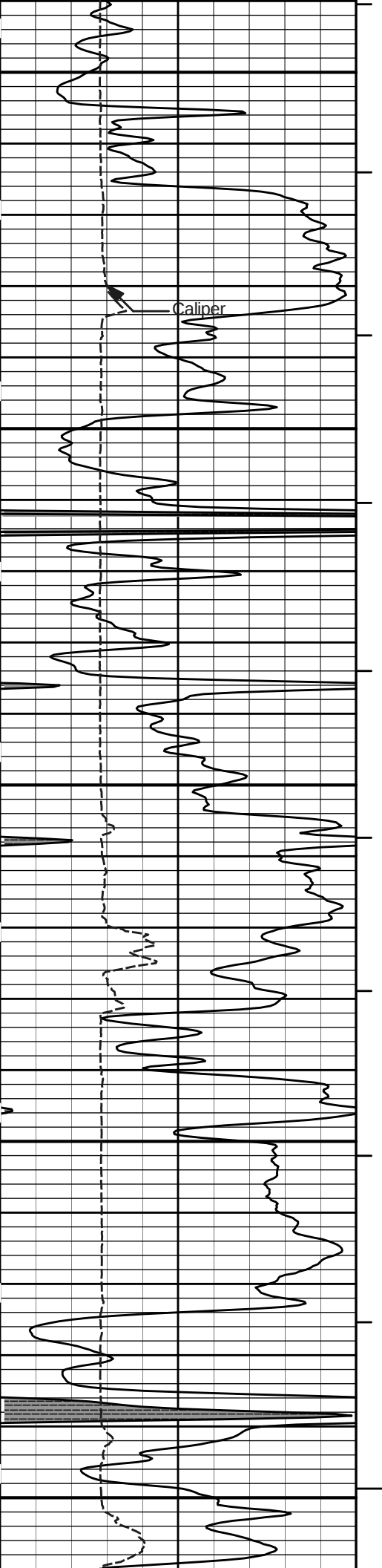






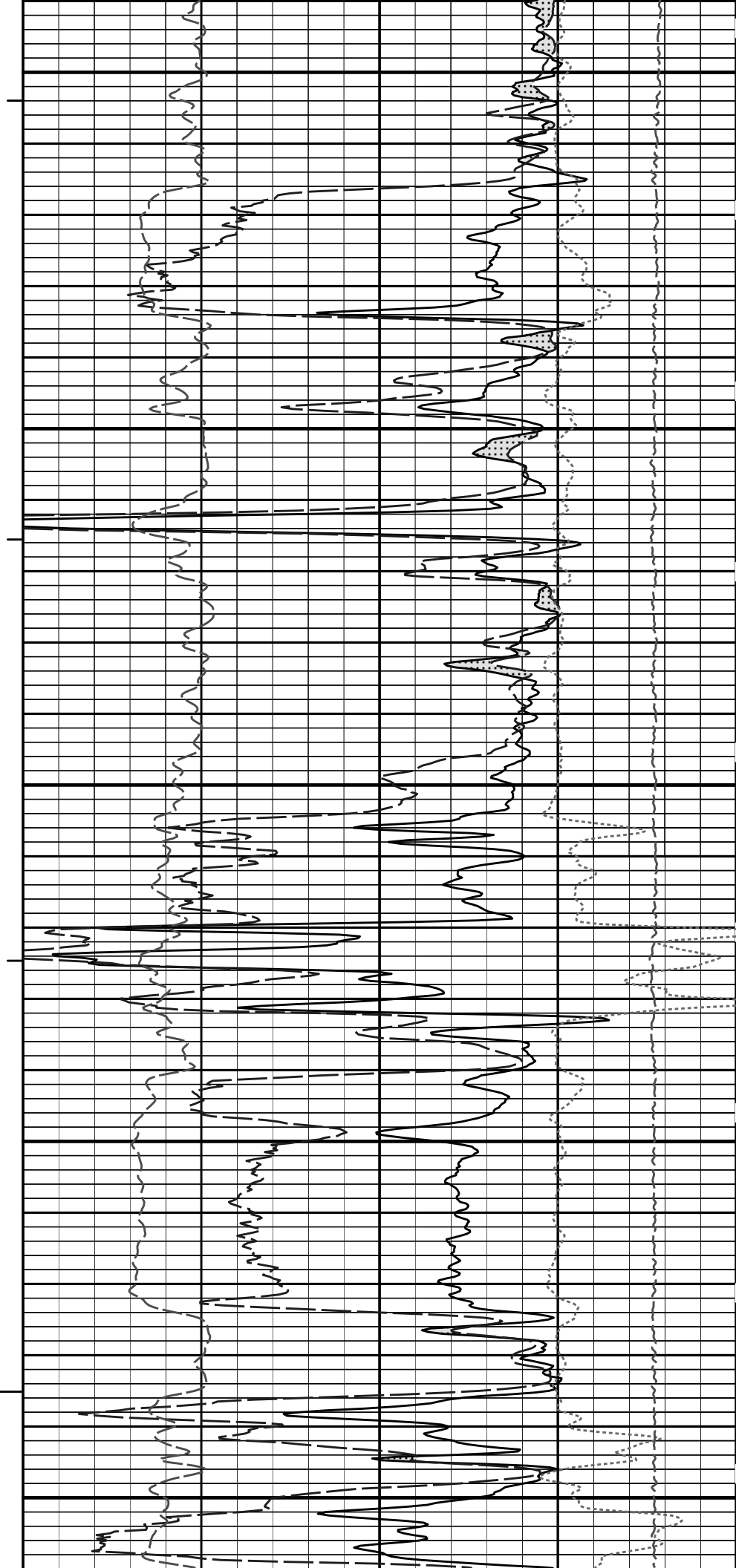


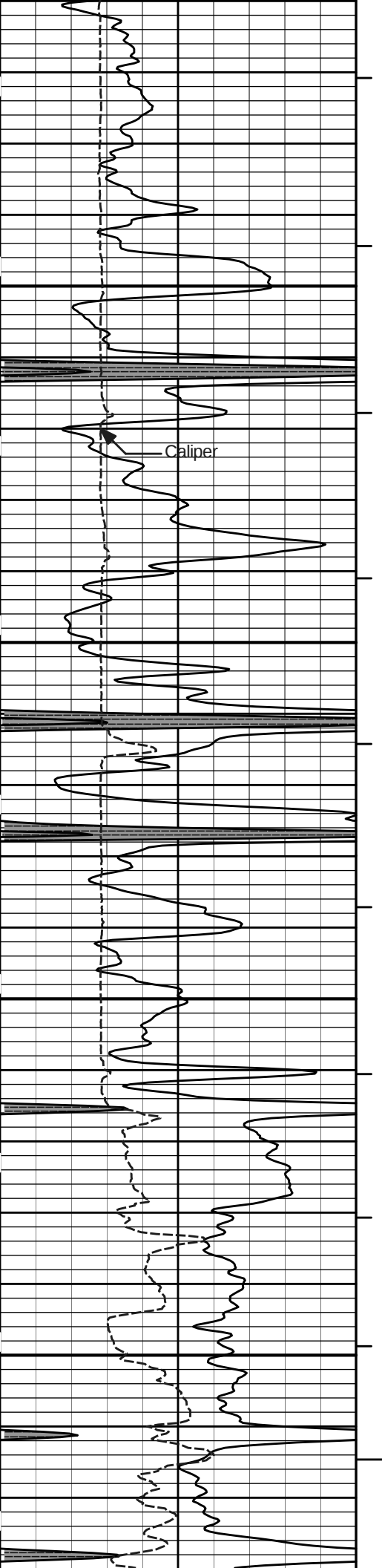




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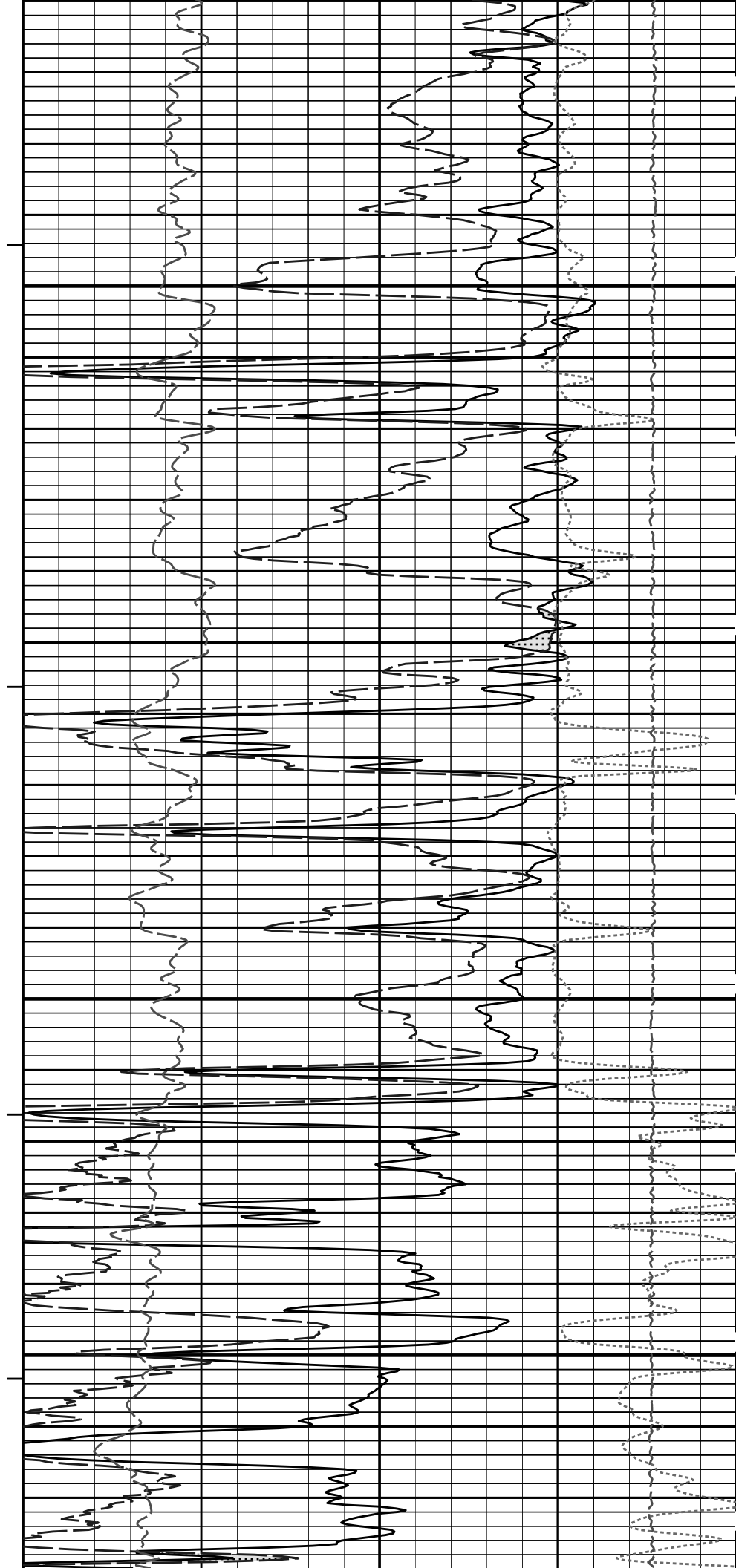
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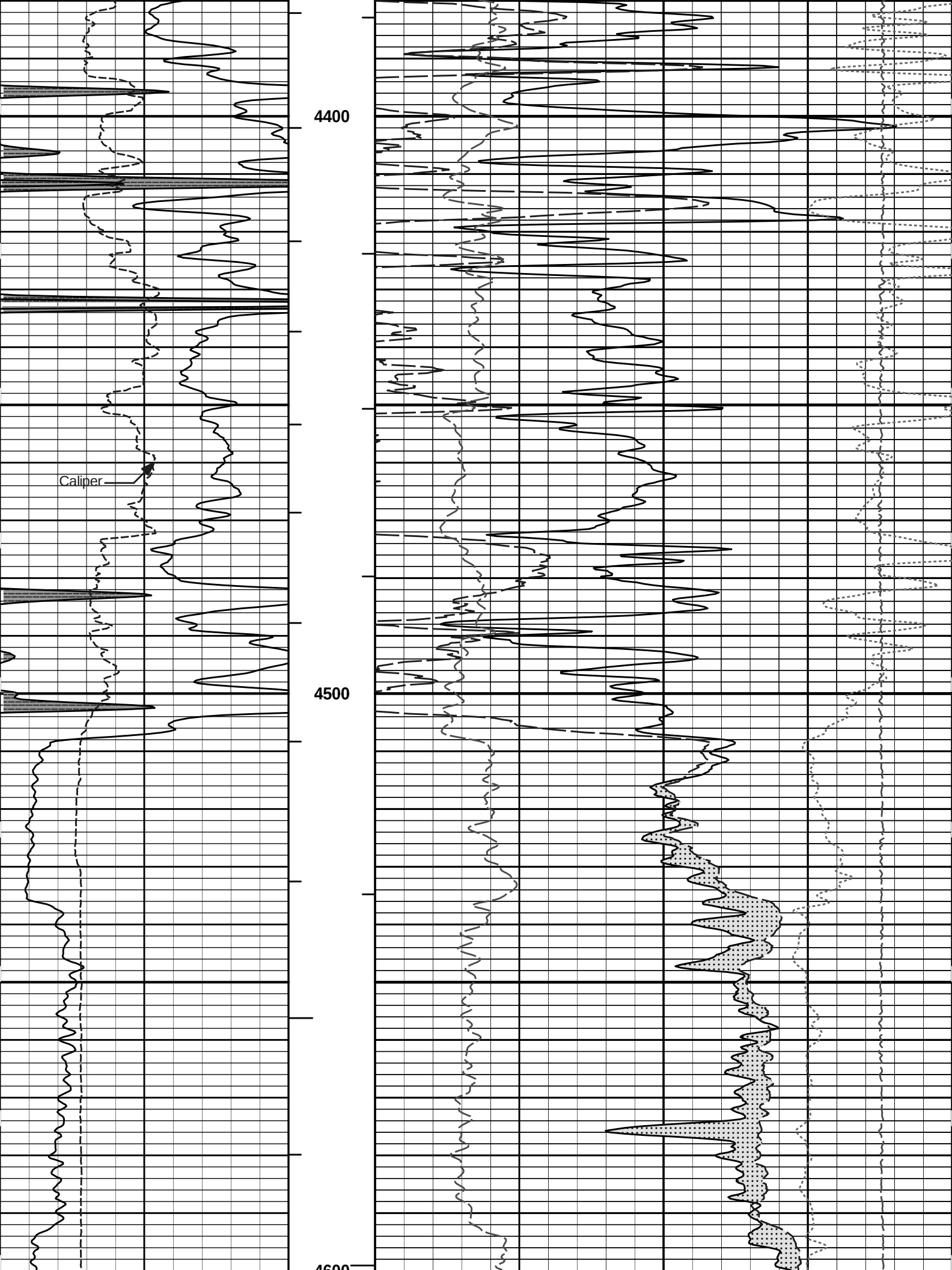


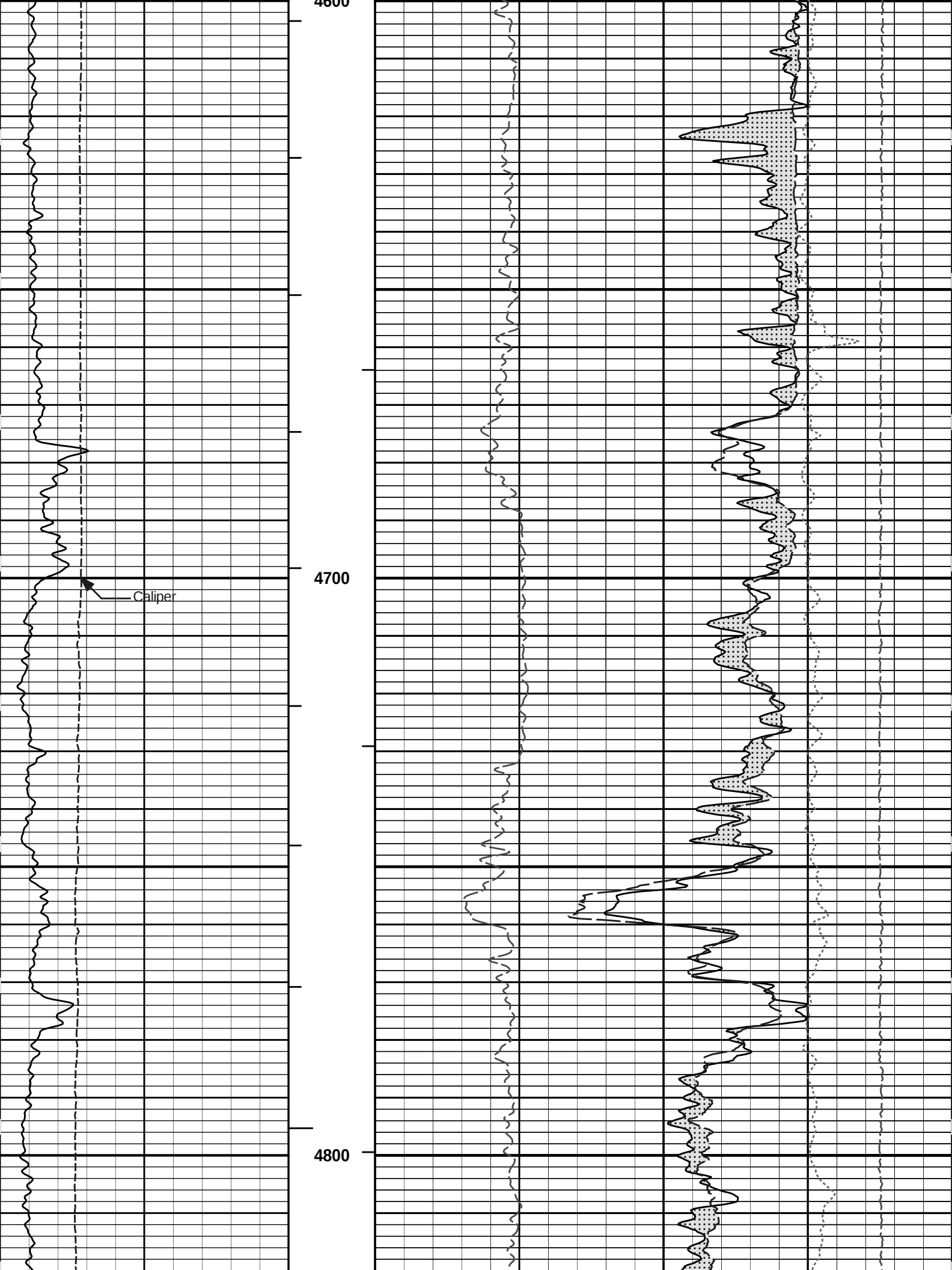


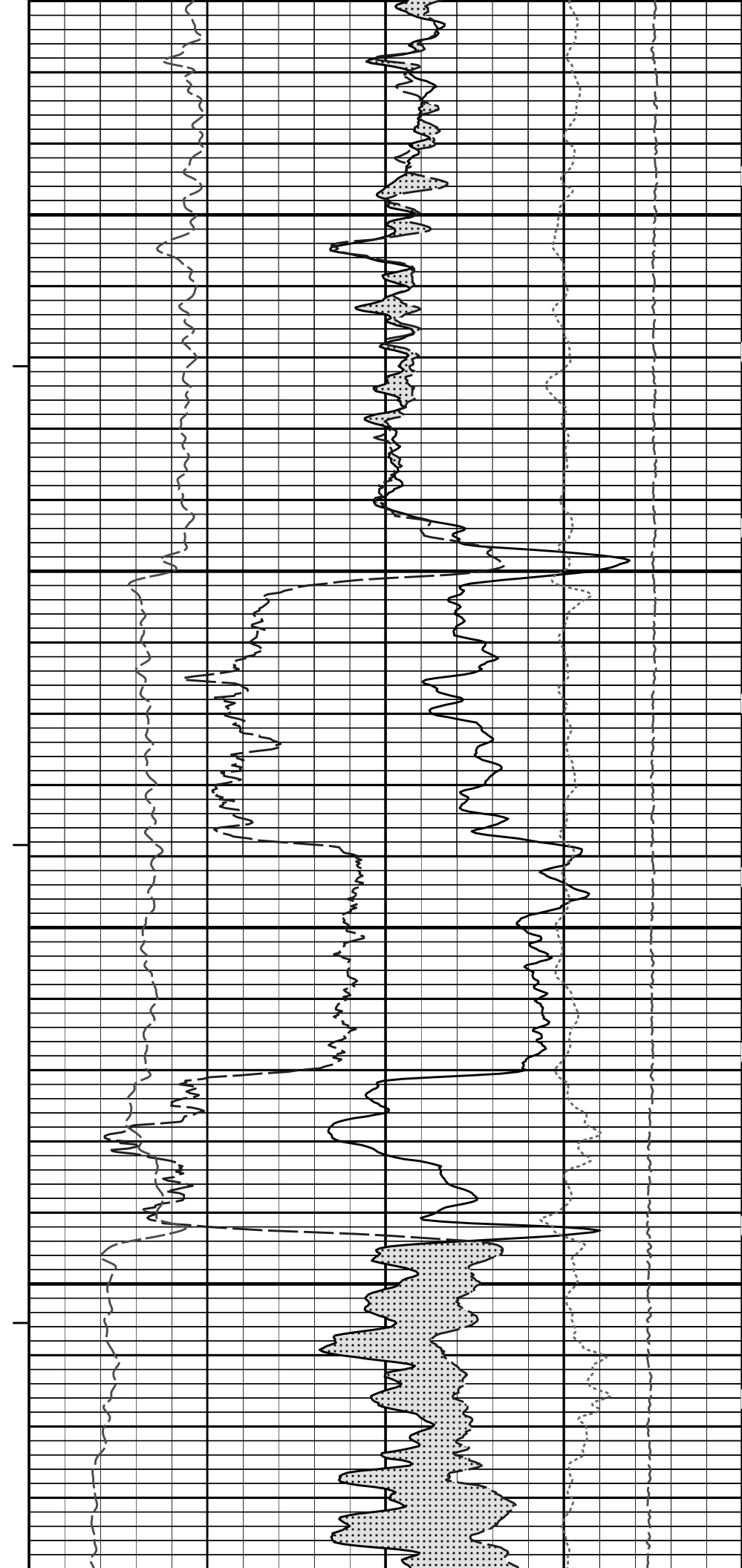
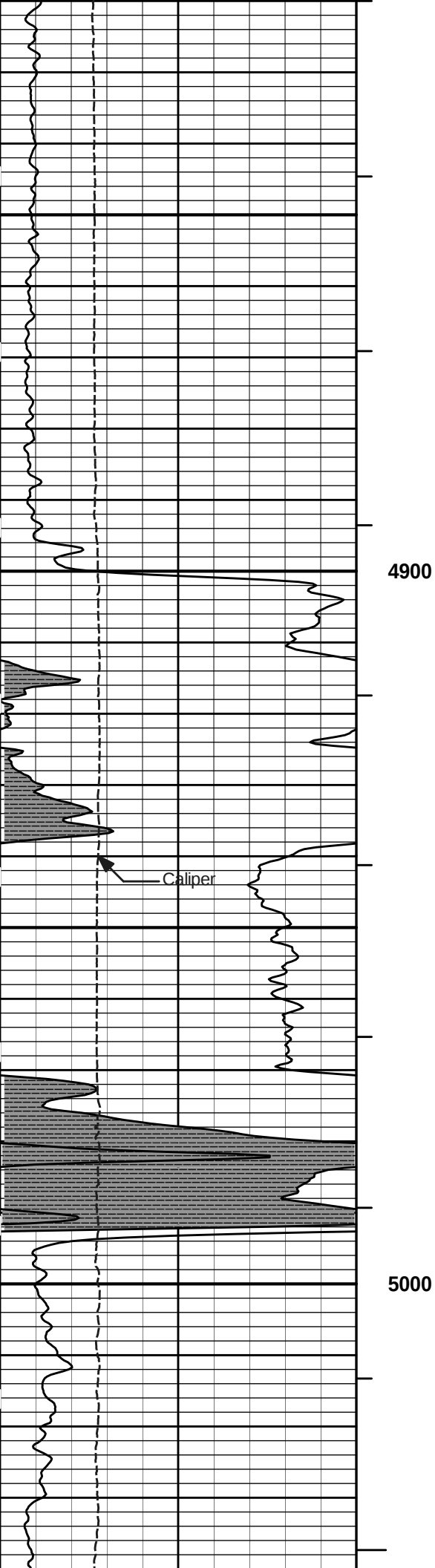
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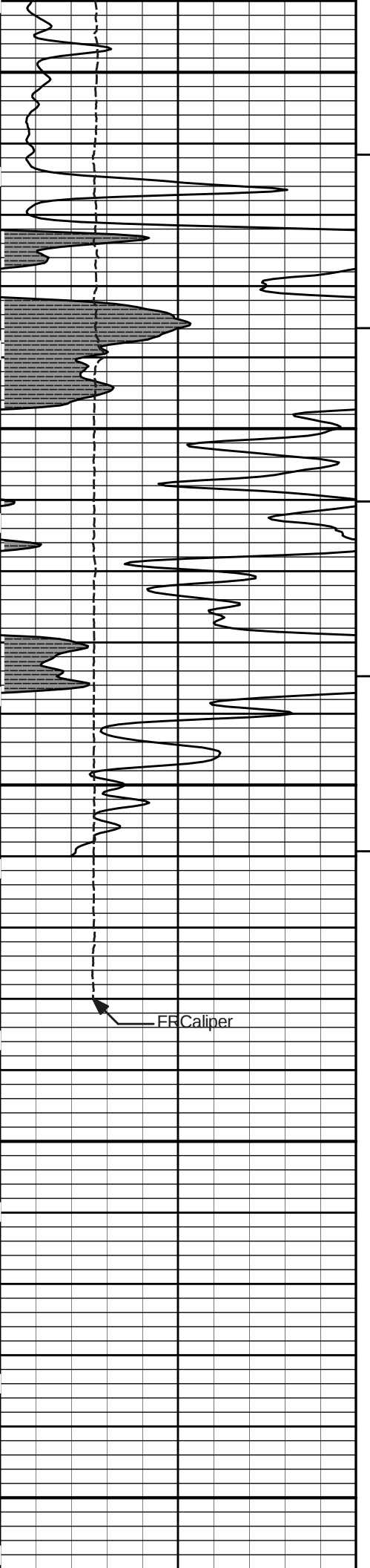
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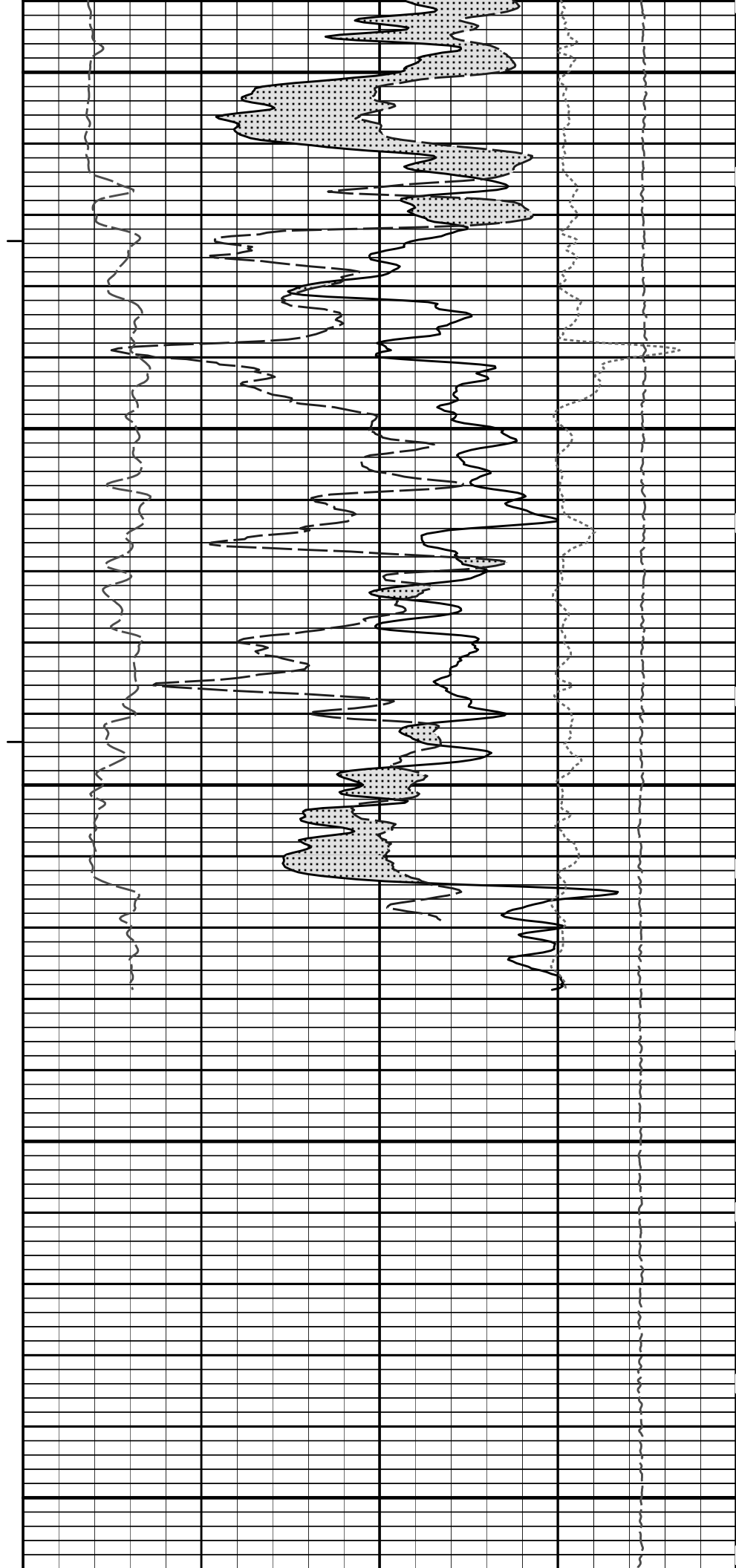


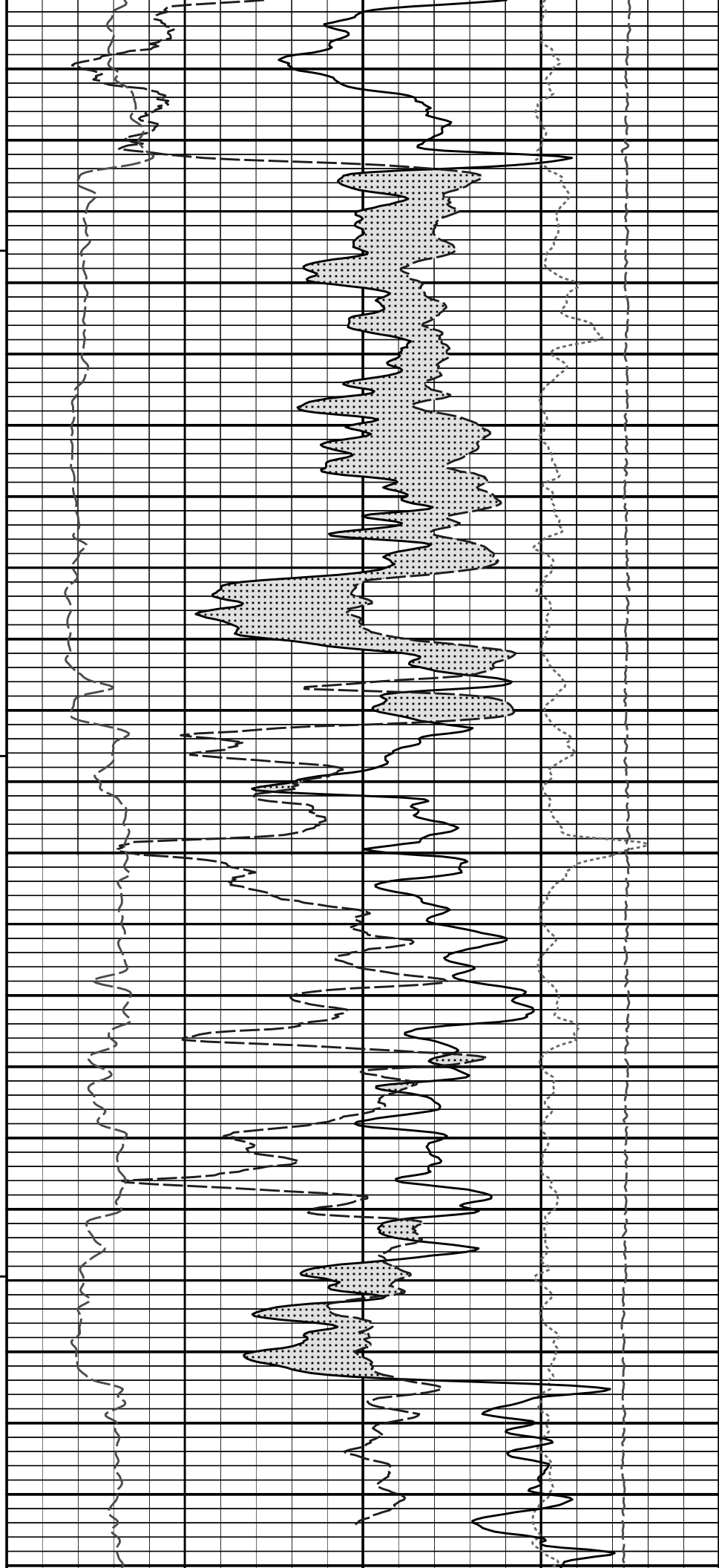
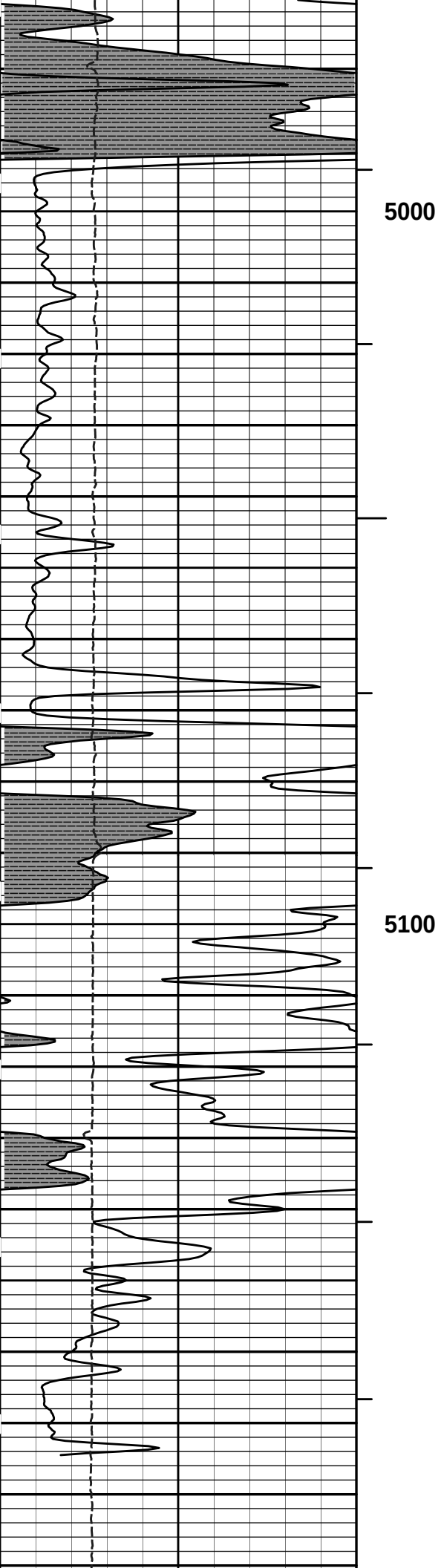


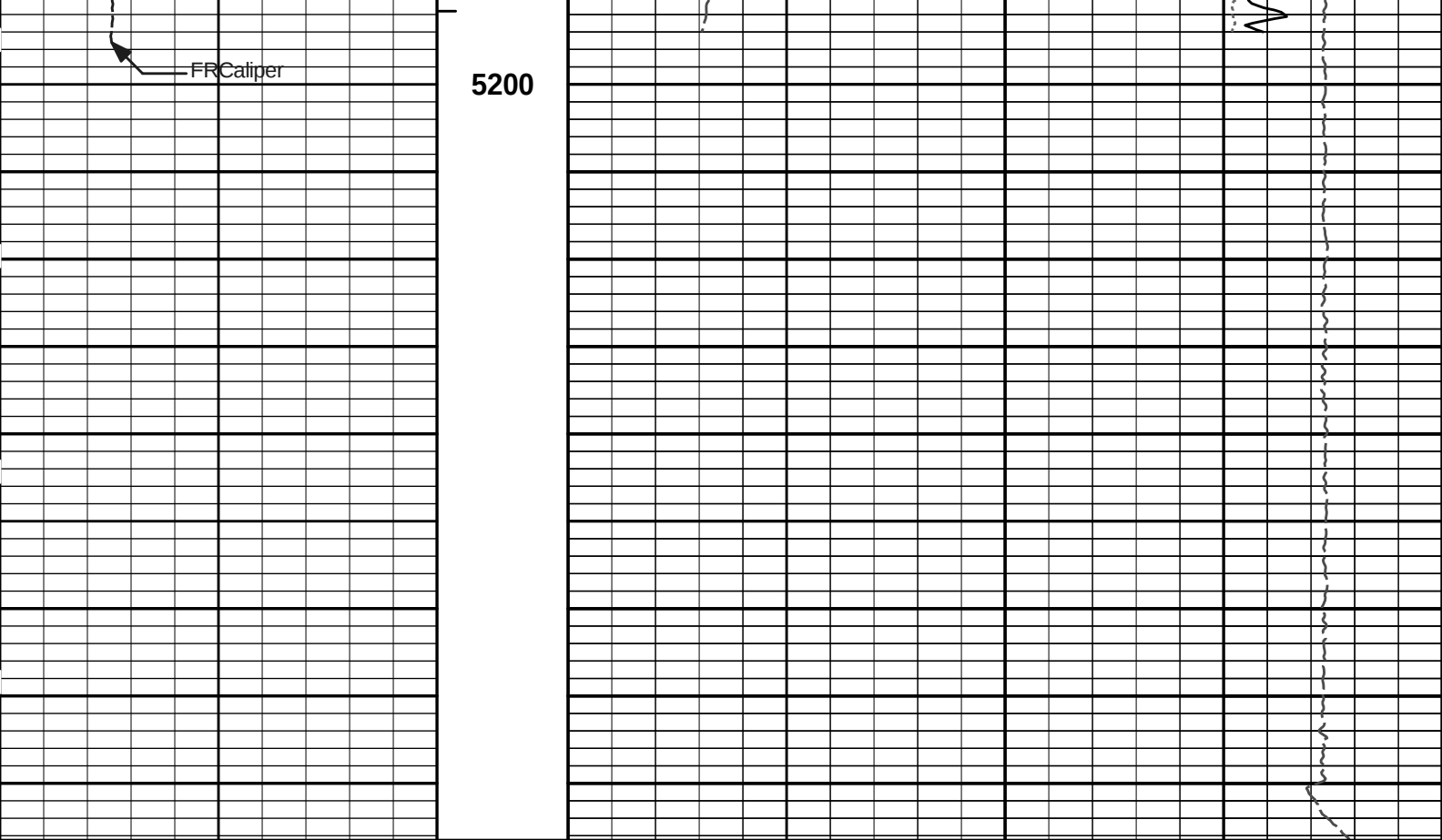


5100

5200







6	Caliper	16	MD	0	Pe	10	-0.25	DensityCorr	0.25
	inches		1 : 240					gram per cc	
0	Gamma API	150	AHVT			15K		Tension	0
	api							pounds	
	SHALE		BHVT	30	DensityPorosity				-10
					%				
				30	Neutron Porosity				-10
					%				
					CROSSOVER				

HALLIBURTON

Plot Time: 15-Aug-12 15:15:36
Plot Range: 4930 ft to 5286.5 ft
Data: KYLIE_ROSE_3305\Well Based\DAQ-0001-003\
Plot File: \\PORO\Poros_IQ_5_REP_LIB

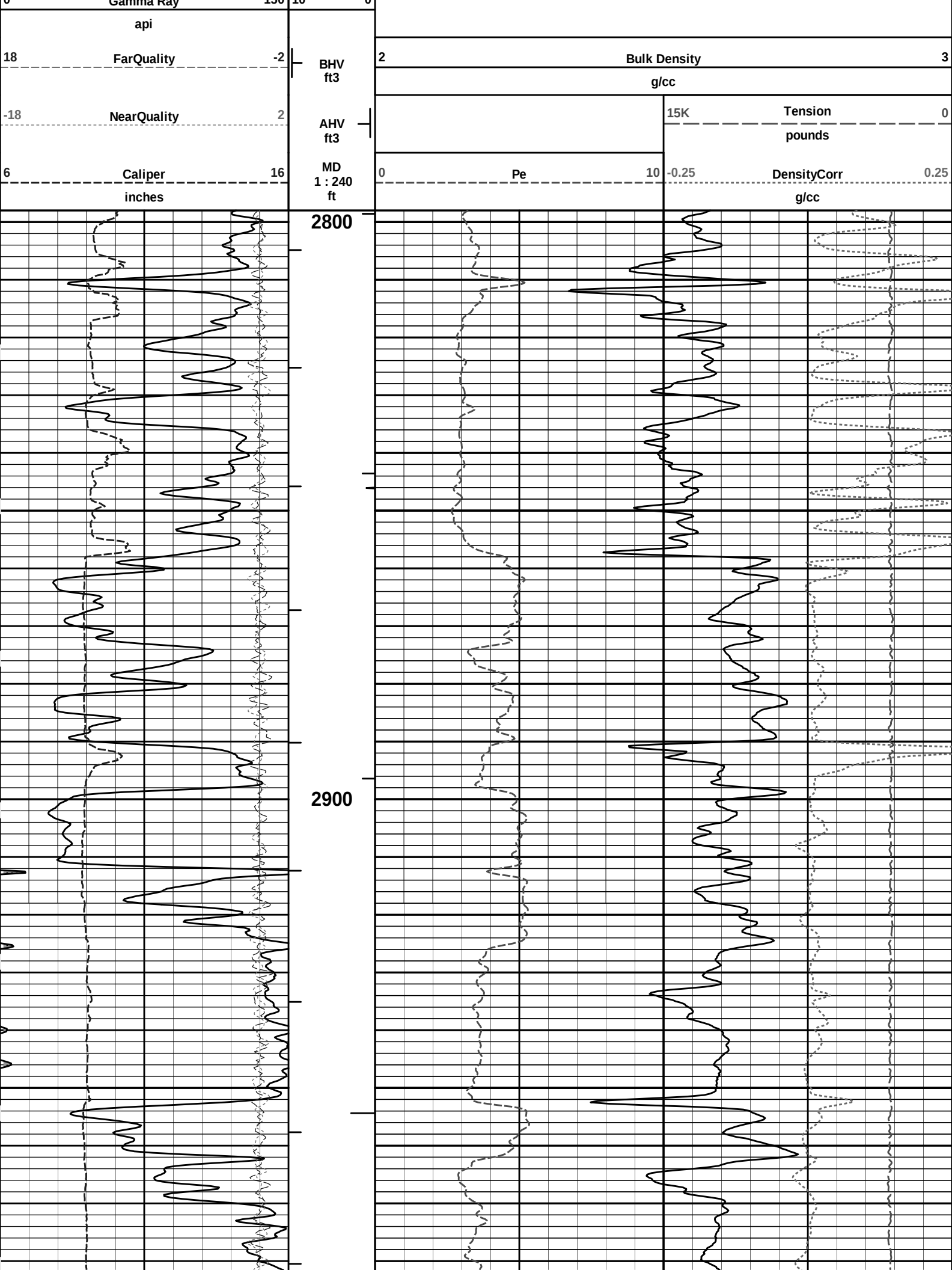
REPEAT SECTION

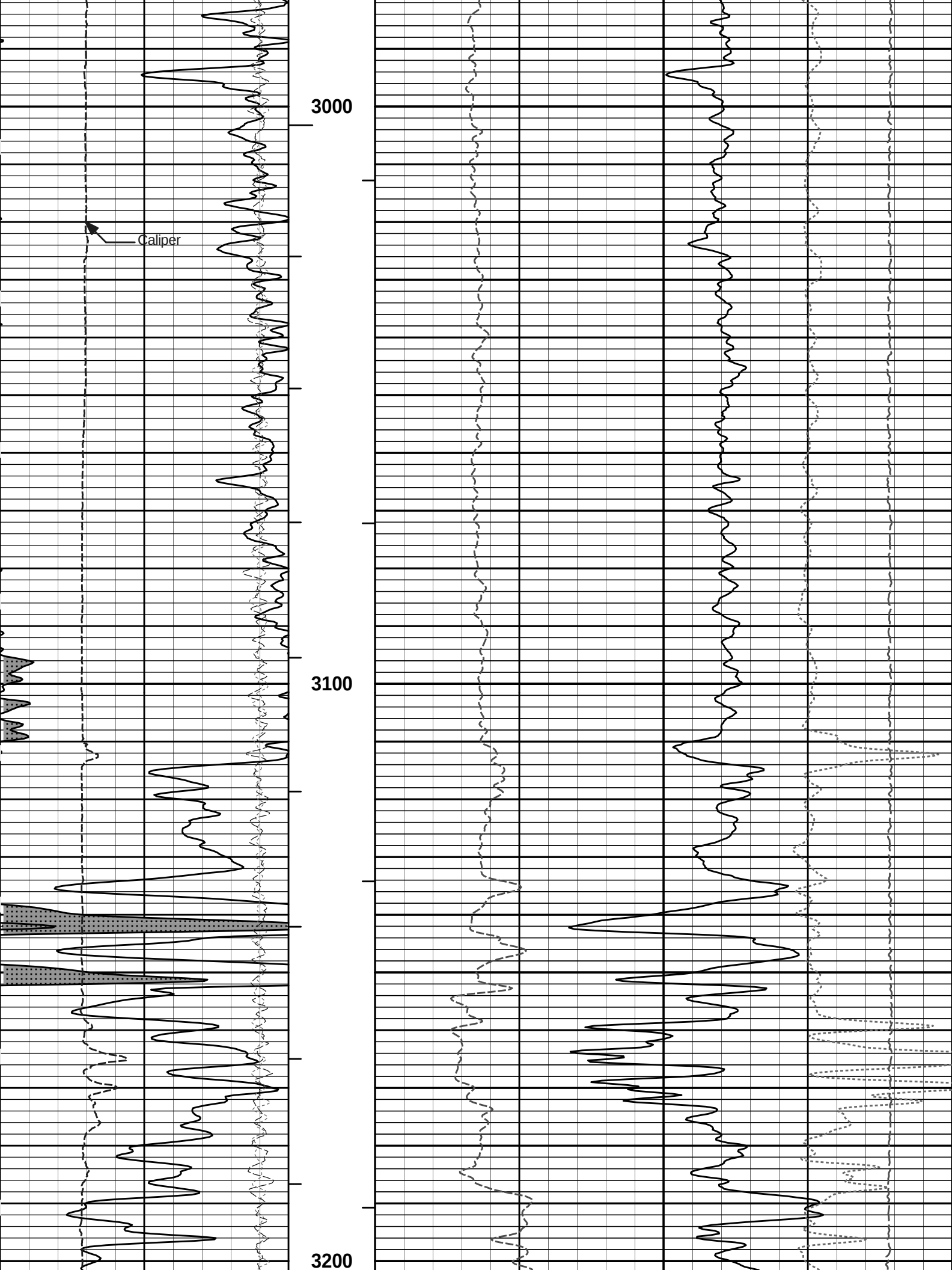
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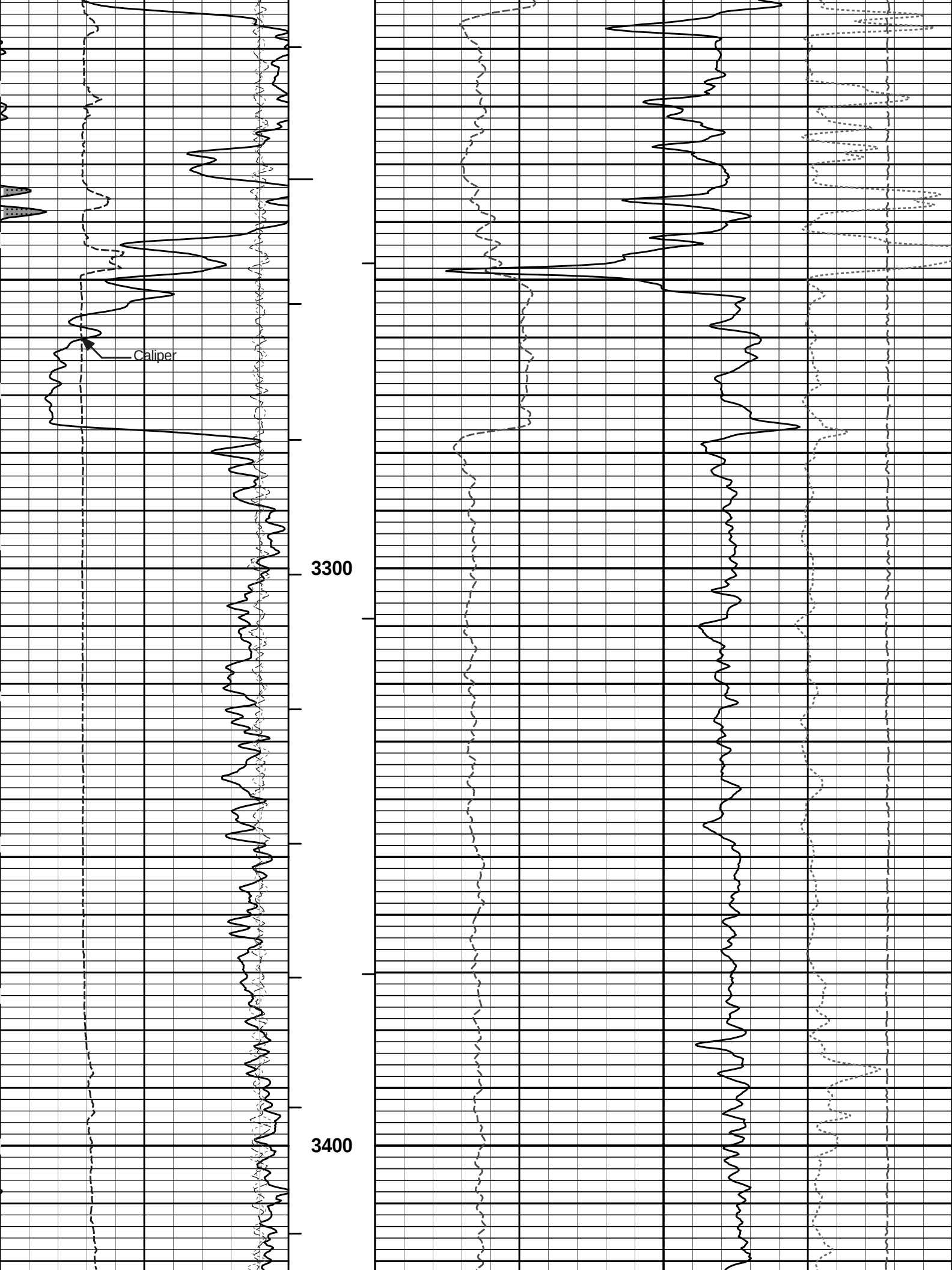
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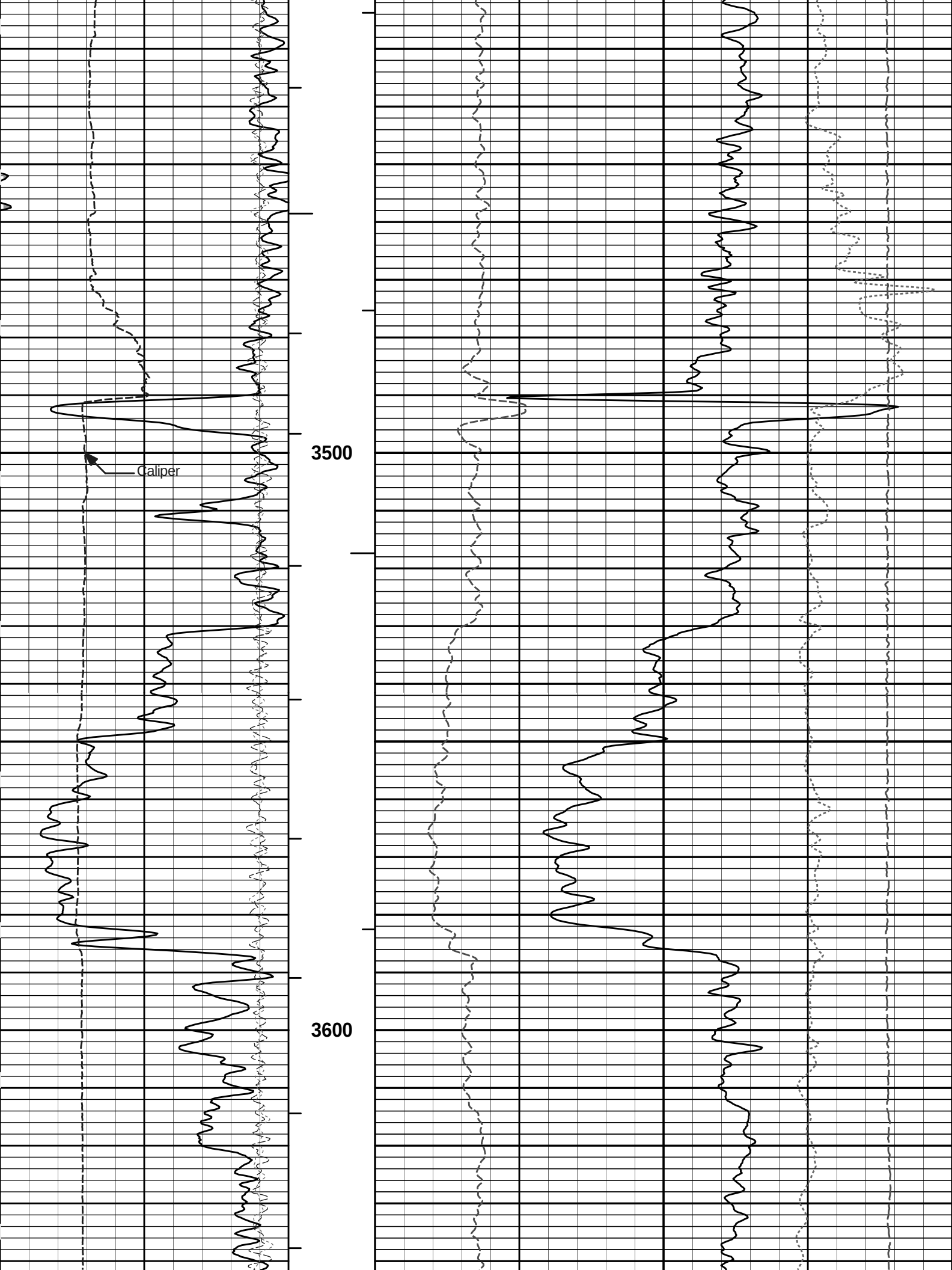
5 INCH MAIN LOG

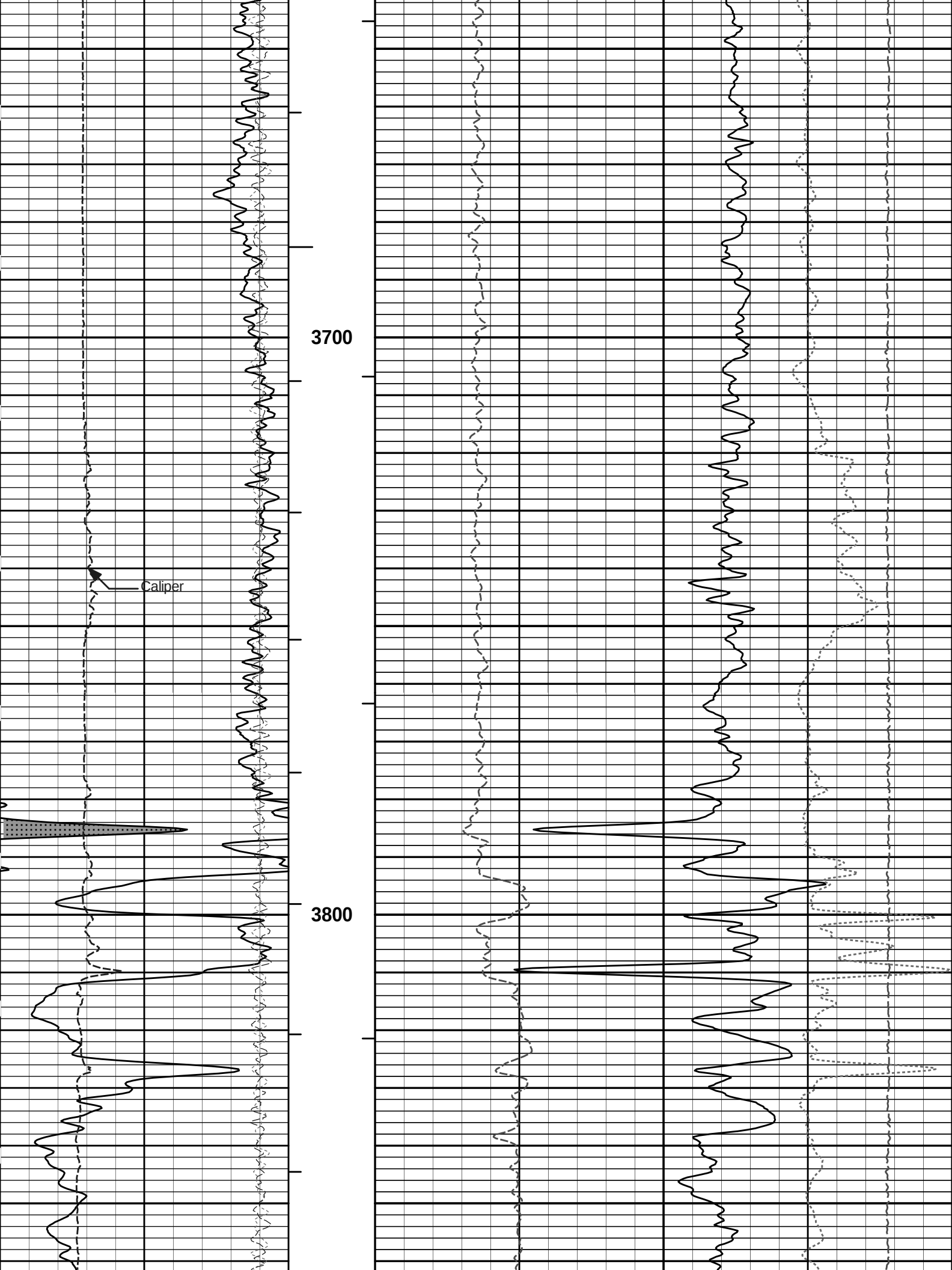
	SHALE	Tension Pull
0	Gamma Ray	Tension Pull
		10

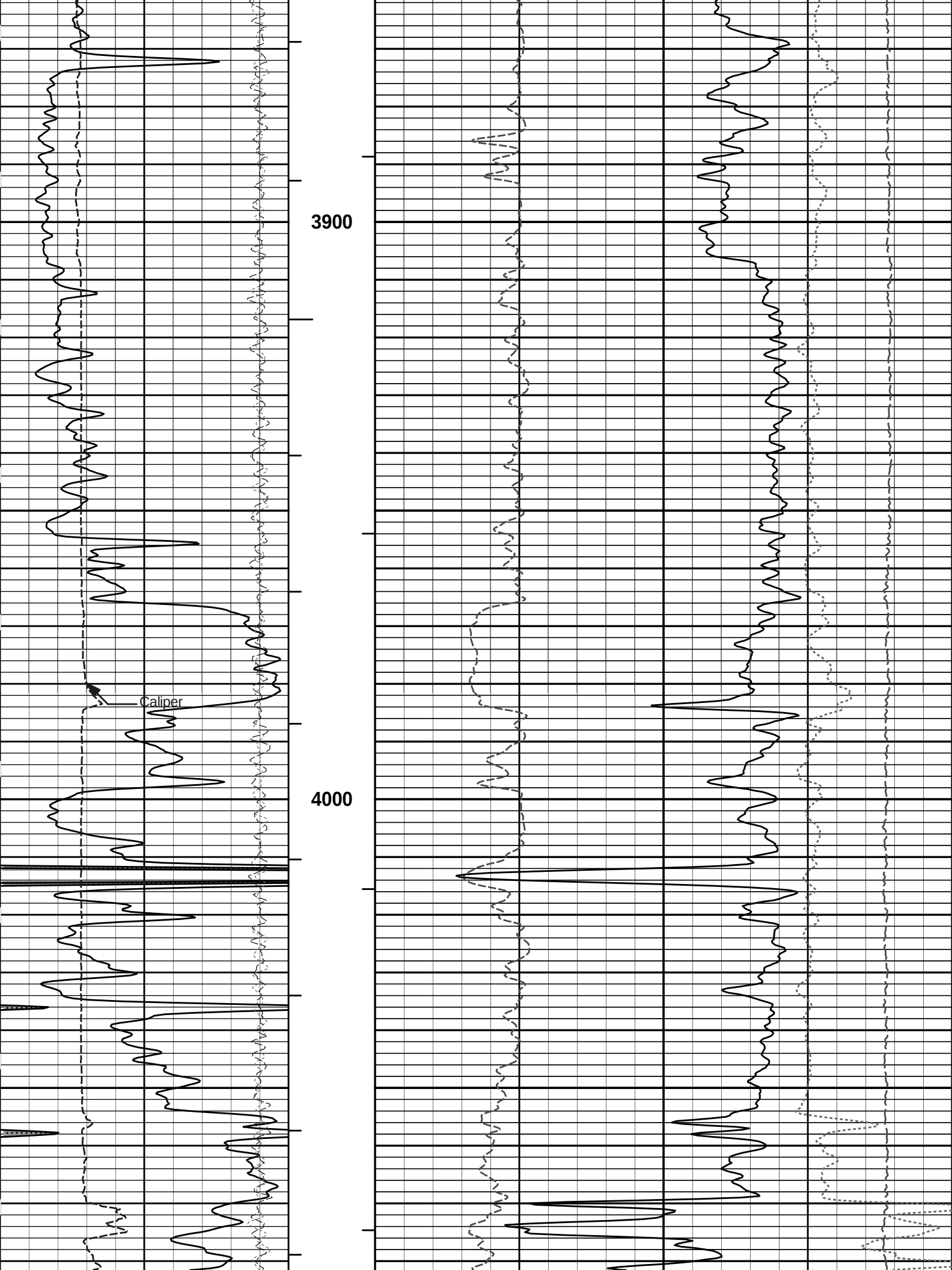


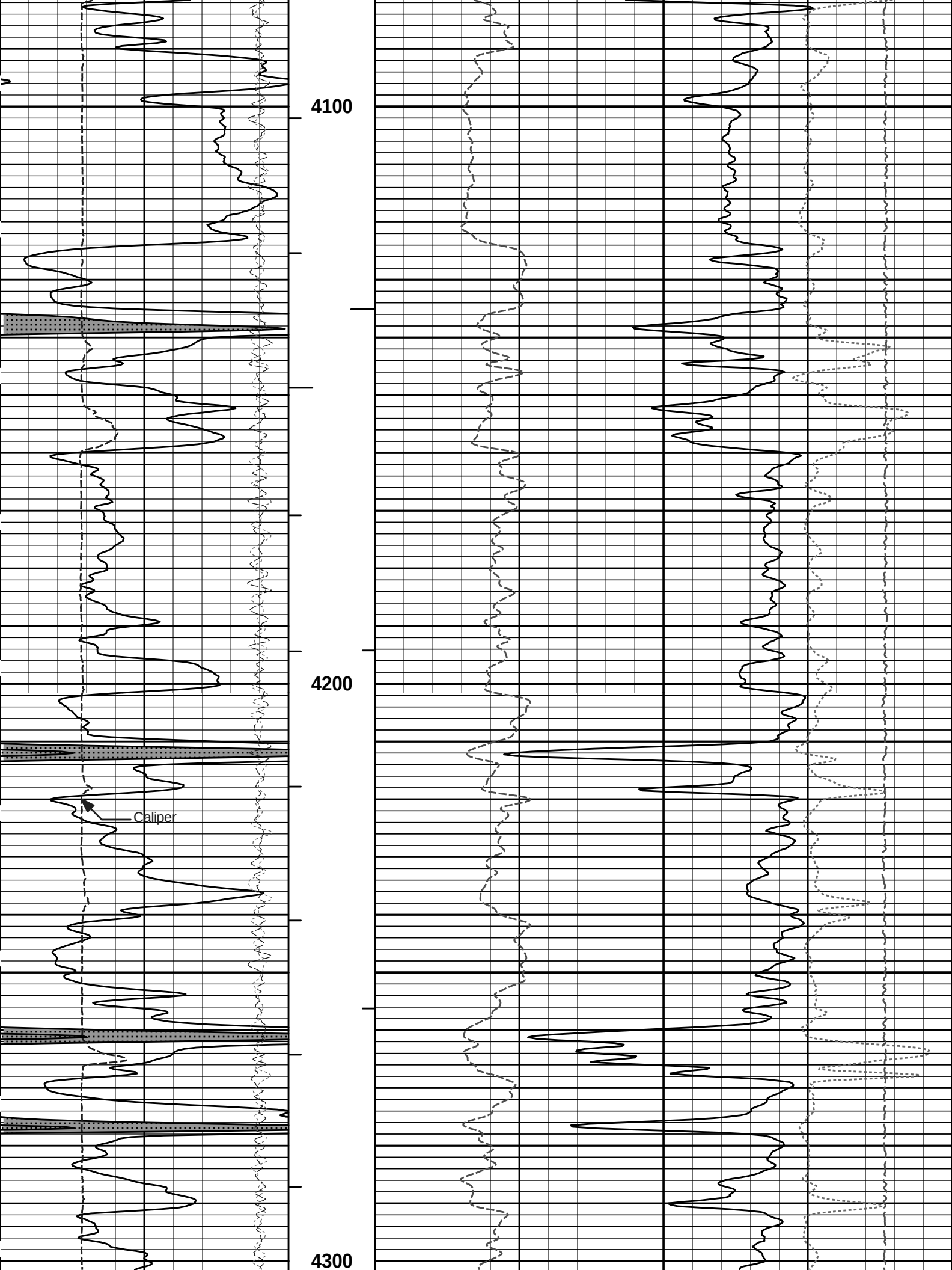


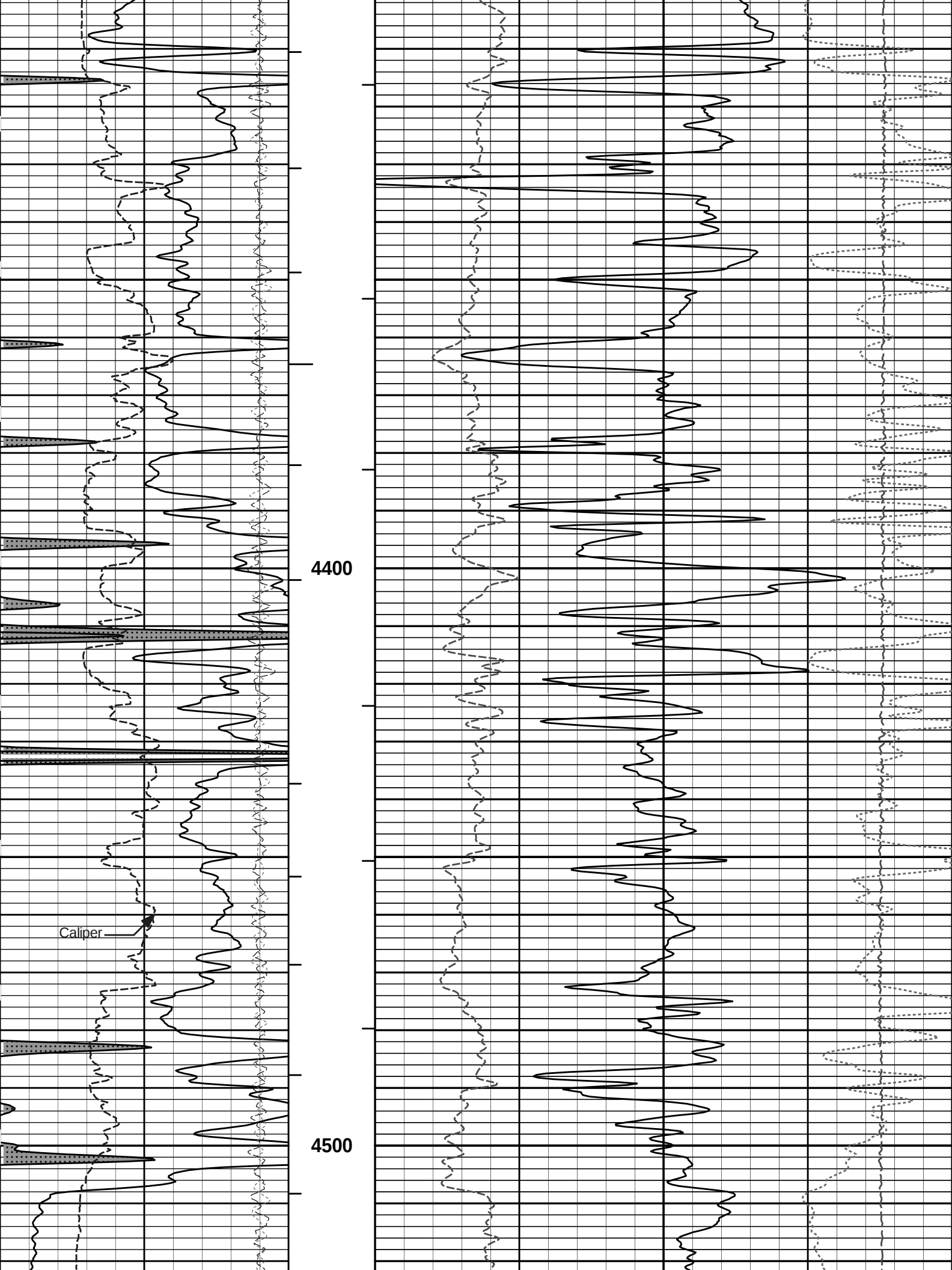


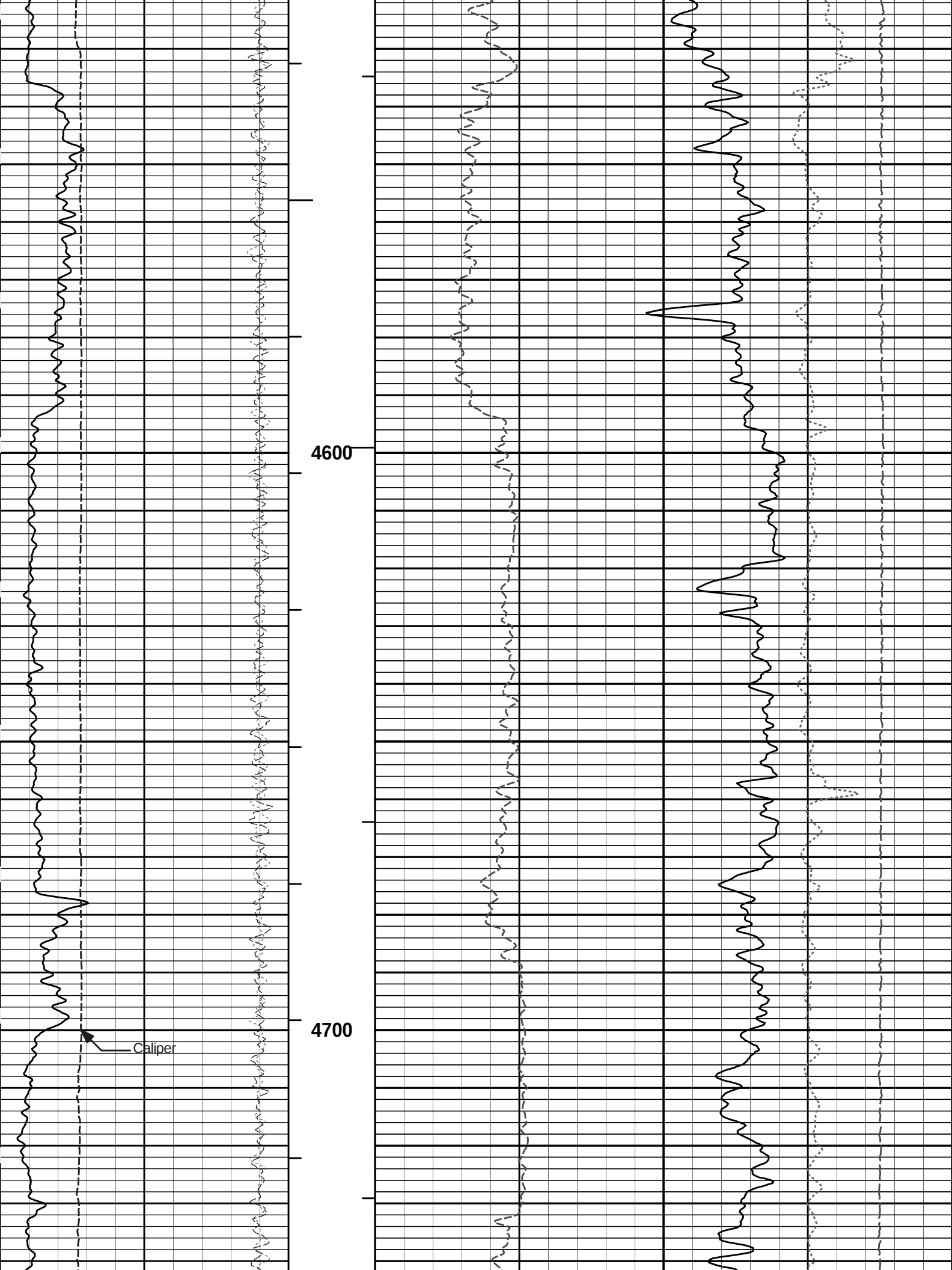


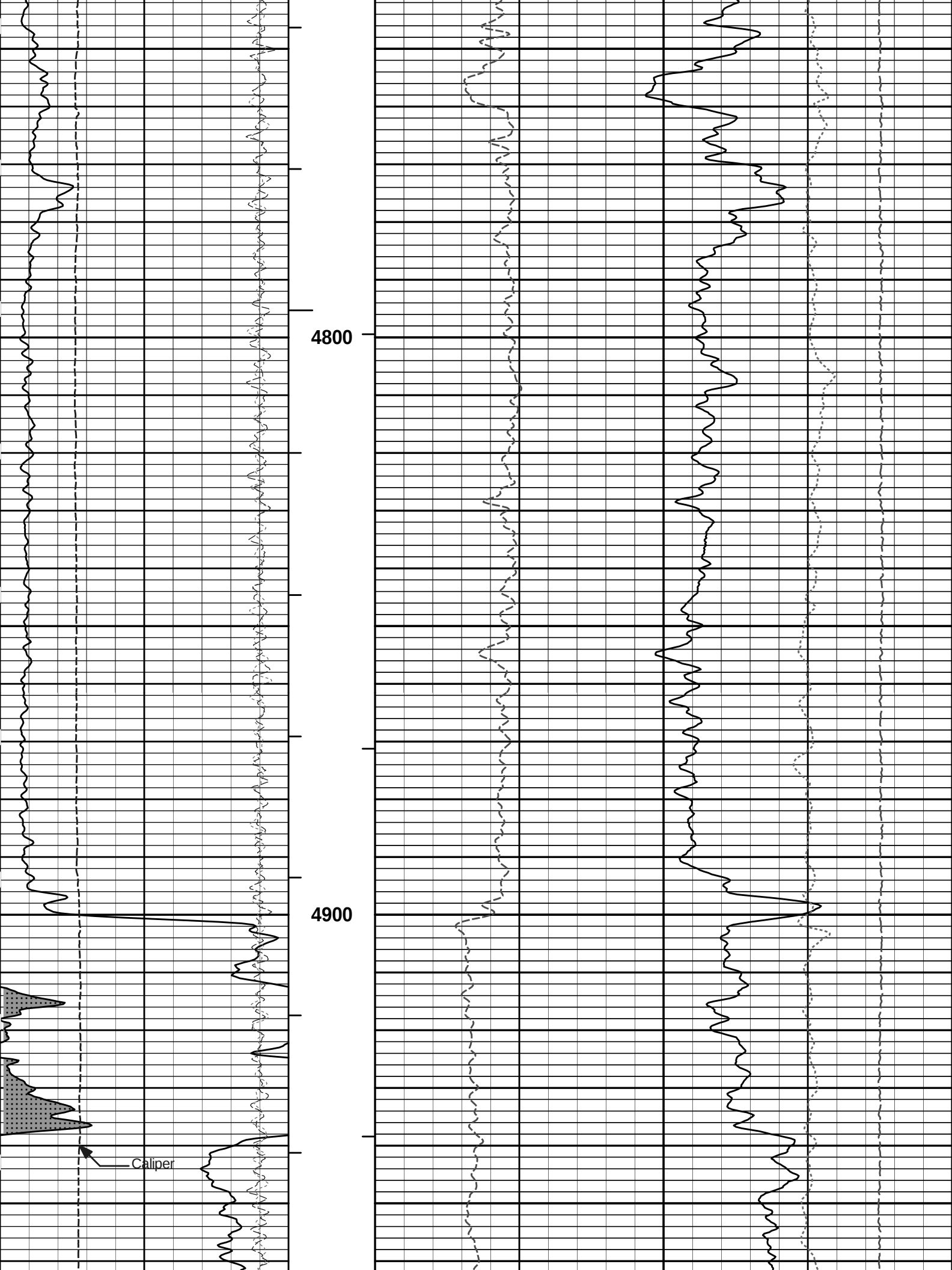


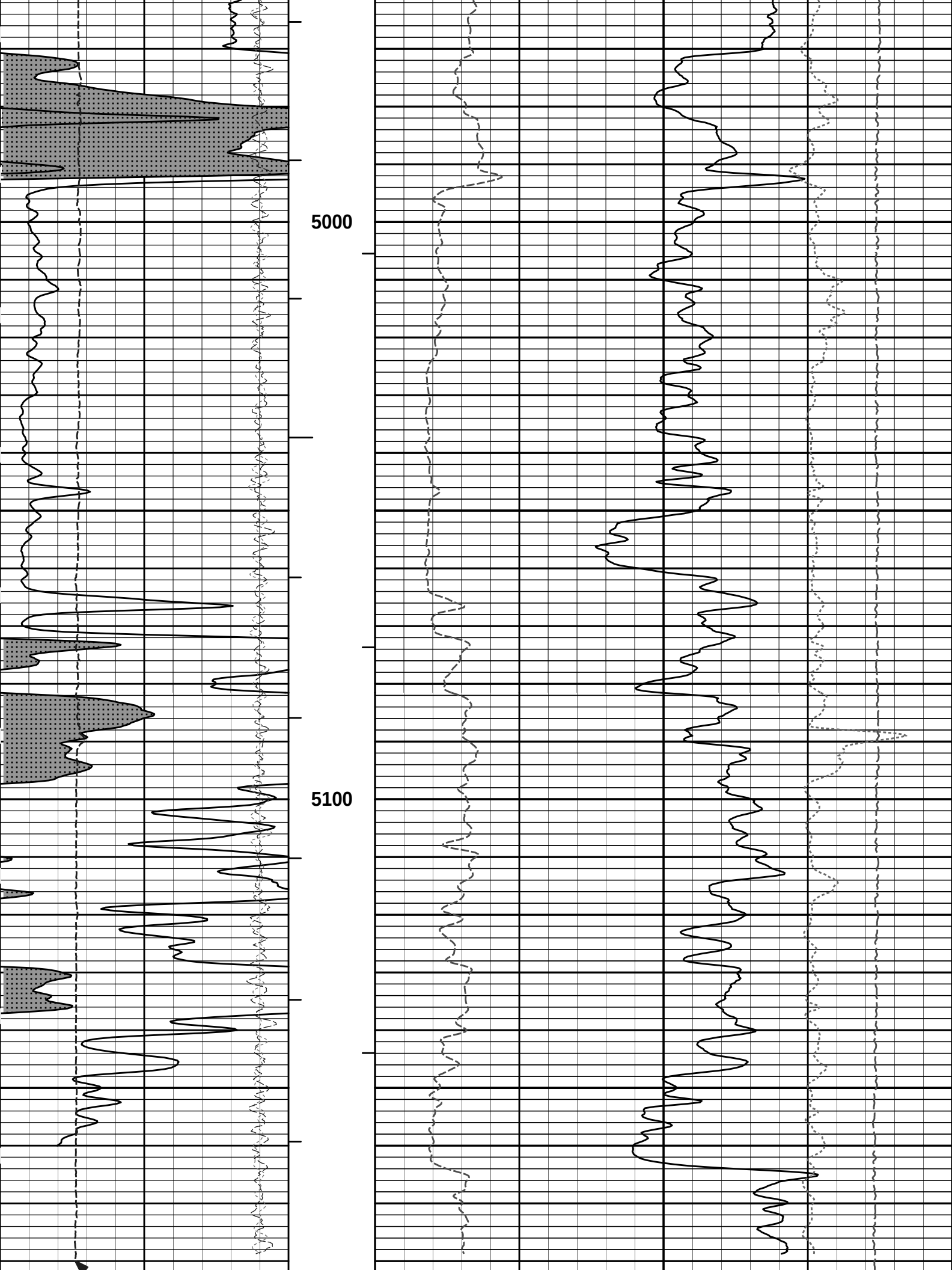


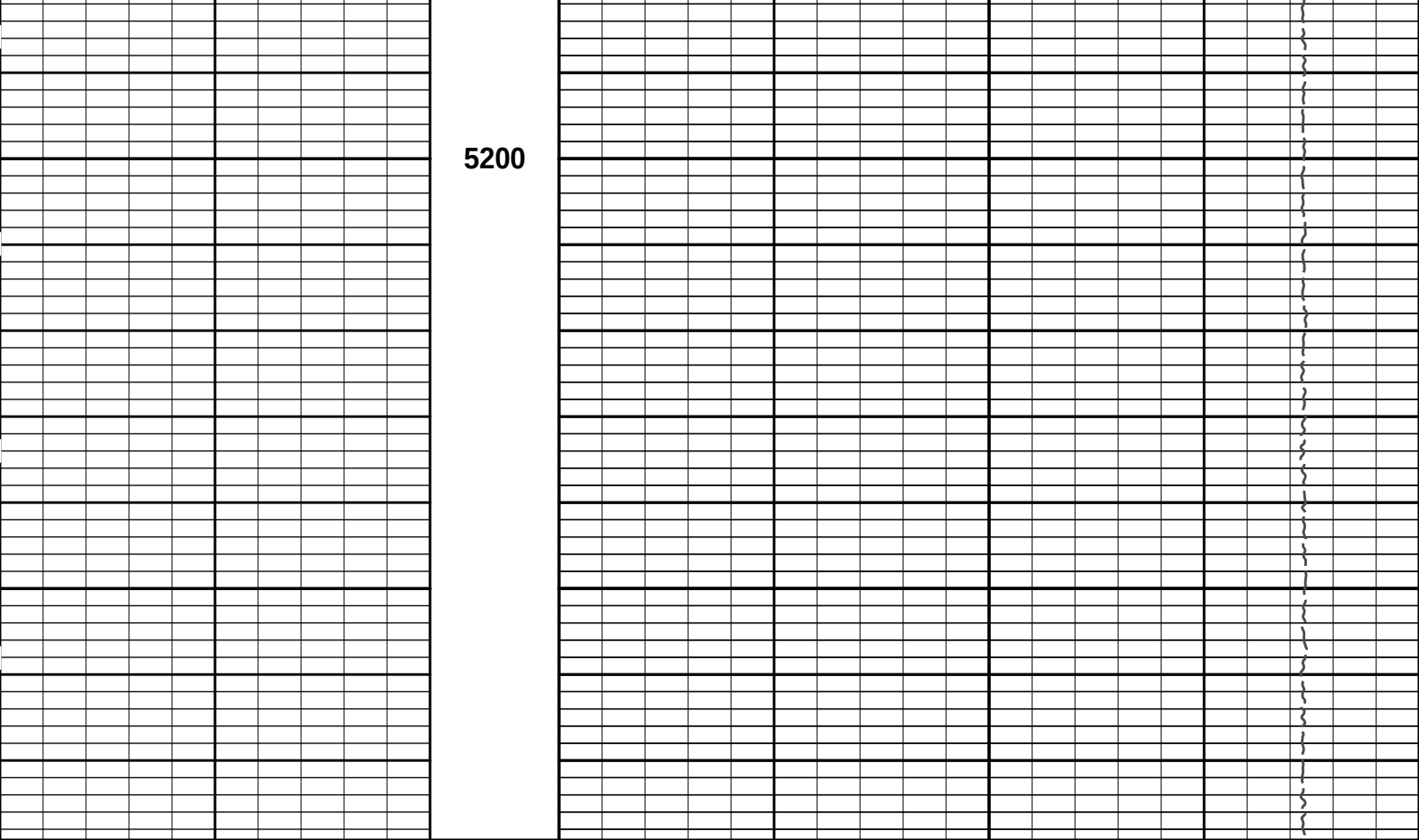












6	Caliper	16	MD	0	Pe	10	-0.25	Density	0.25
	inches		1 : 240					g/cc	
-18	NearQuality	2	AHV			15K		Tension	0
			ft3					pounds	
18	FarQuality	-2	BHV	2	Bulk Density				3
			ft3		g/cc				
0	Gamma Ray	150	Tension Pull						
	api		10	0					
	SHALE		Tension Pull						

HALLIBURTON

Plot Time: 15-Aug-12 15:15:40
Plot Range: 2798 ft to 5279.25 ft
Data: KYLIE_ROSE_3305\Well Based\DAQ-0001-004\
Plot File: \\-LOCAL-\\KYLIE_ROSE_3305\\0001 SP-GTET-DSN-SDL-IDT-ICT-WSTT-ACRT-CHIPORO\\BULKD_5_MAIN_LIB

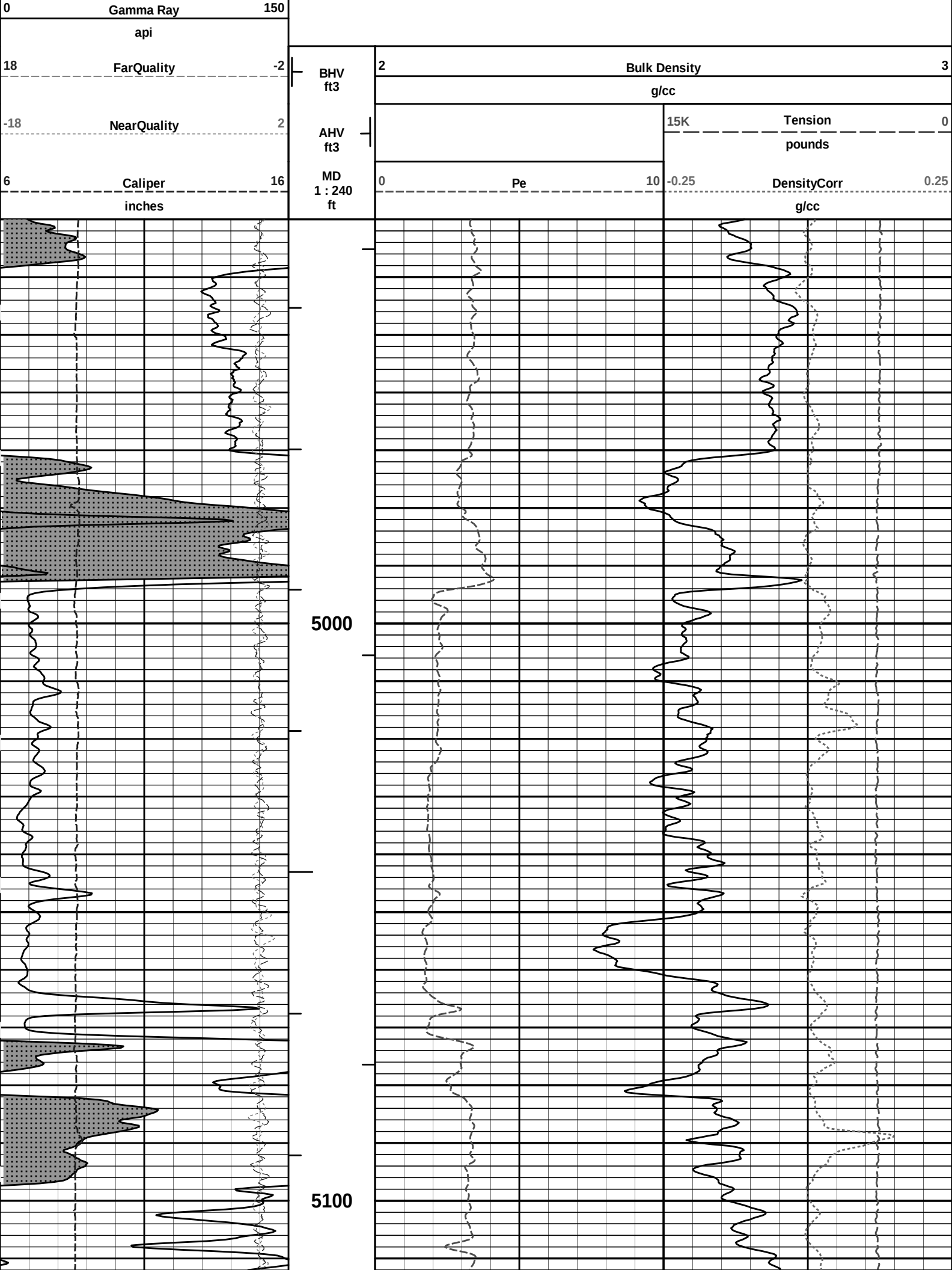
5 INCH MAIN LOG

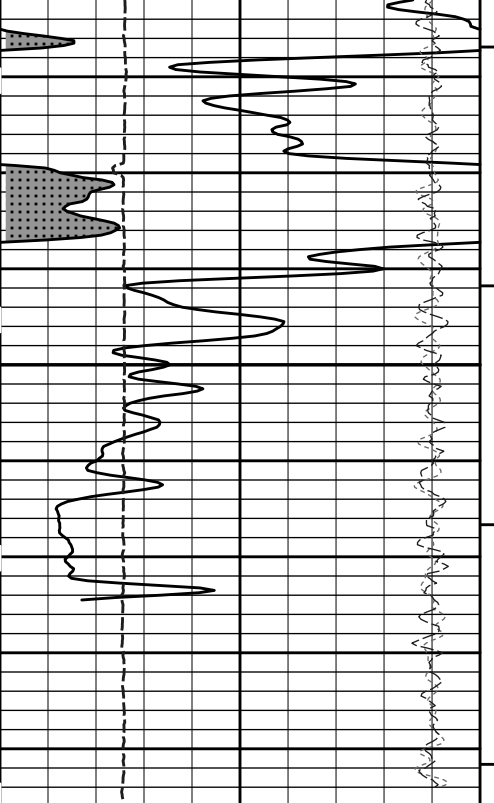
HALLIBURTON

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Plot Range: 4930 ft to 5286.5 ft
Data: KYLIE_ROSE_3305\Well Based\DAQ-0001-003\
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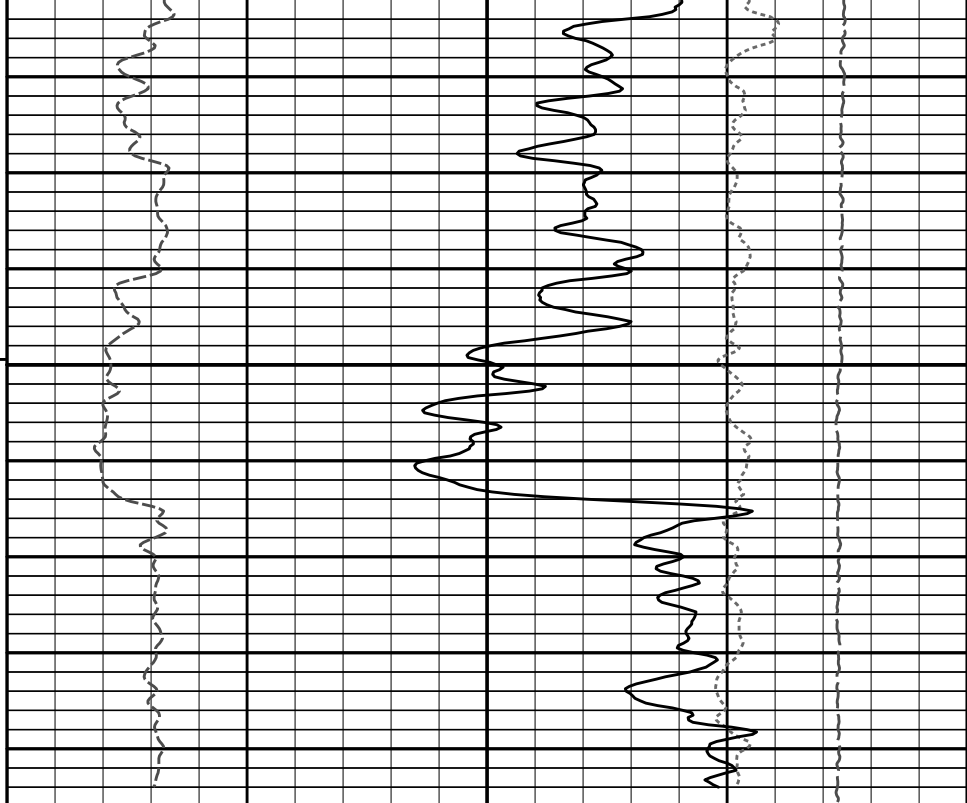
REPEAT SECTION

SHALE





5200



6	Caliper	16
inches		
-18	NearQuality	2
18	FarQuality	-2
0	Gamma Ray	150
api		
SHALE		

MD
1 : 240
ft

AHV
ft3

BHV
ft3

0	Pe	10	-0.25	DensityCorr	0.25
			g/cc		
			15K	Tension	0
			pounds		
2	Bulk Density				3
g/cc					

HALLIBURTON

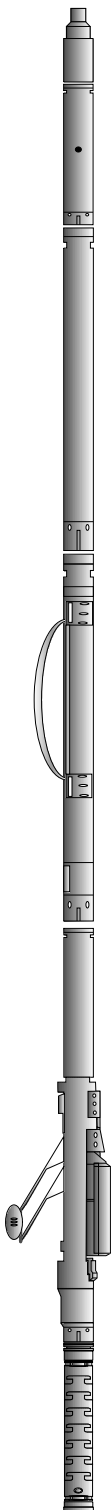
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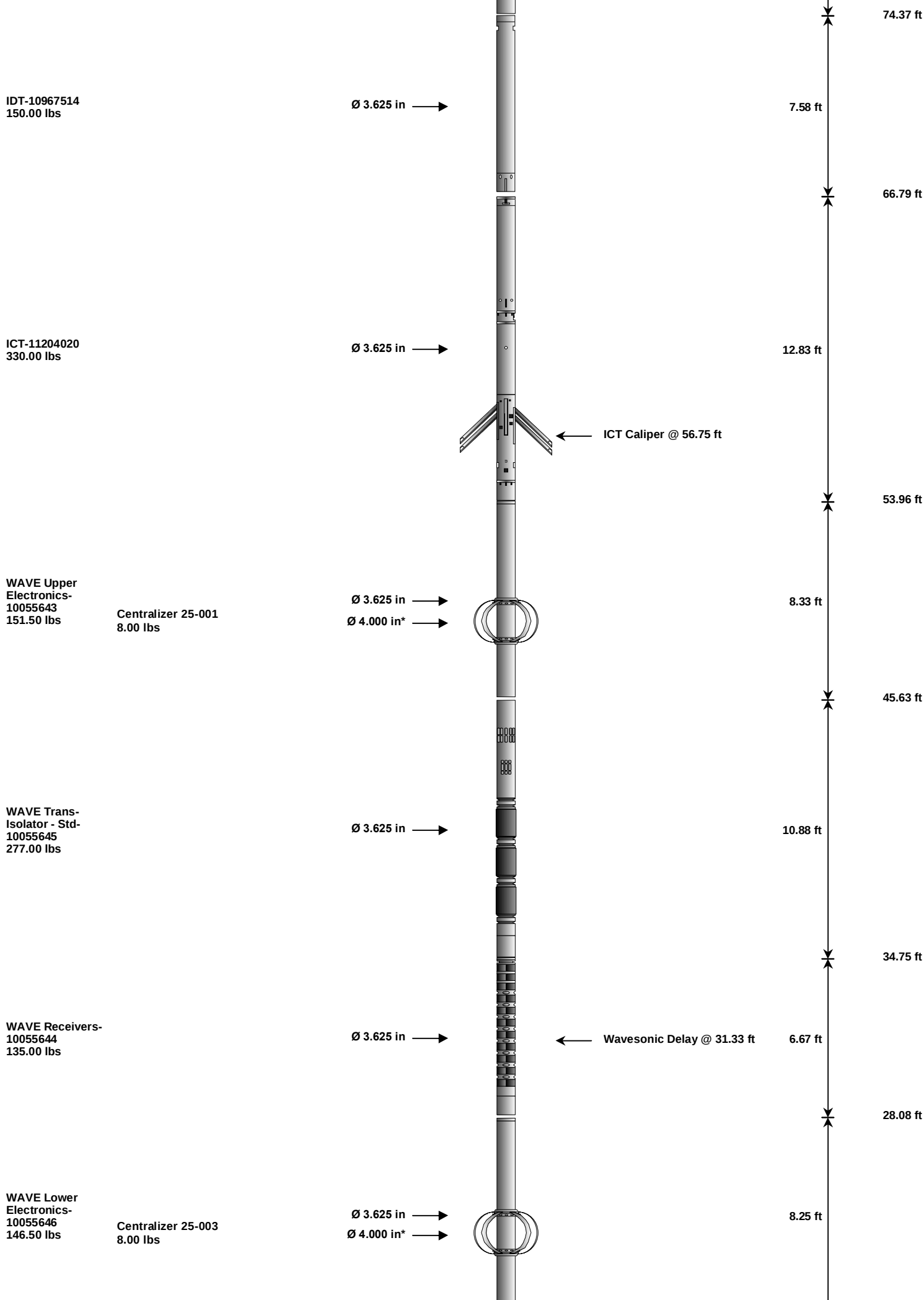
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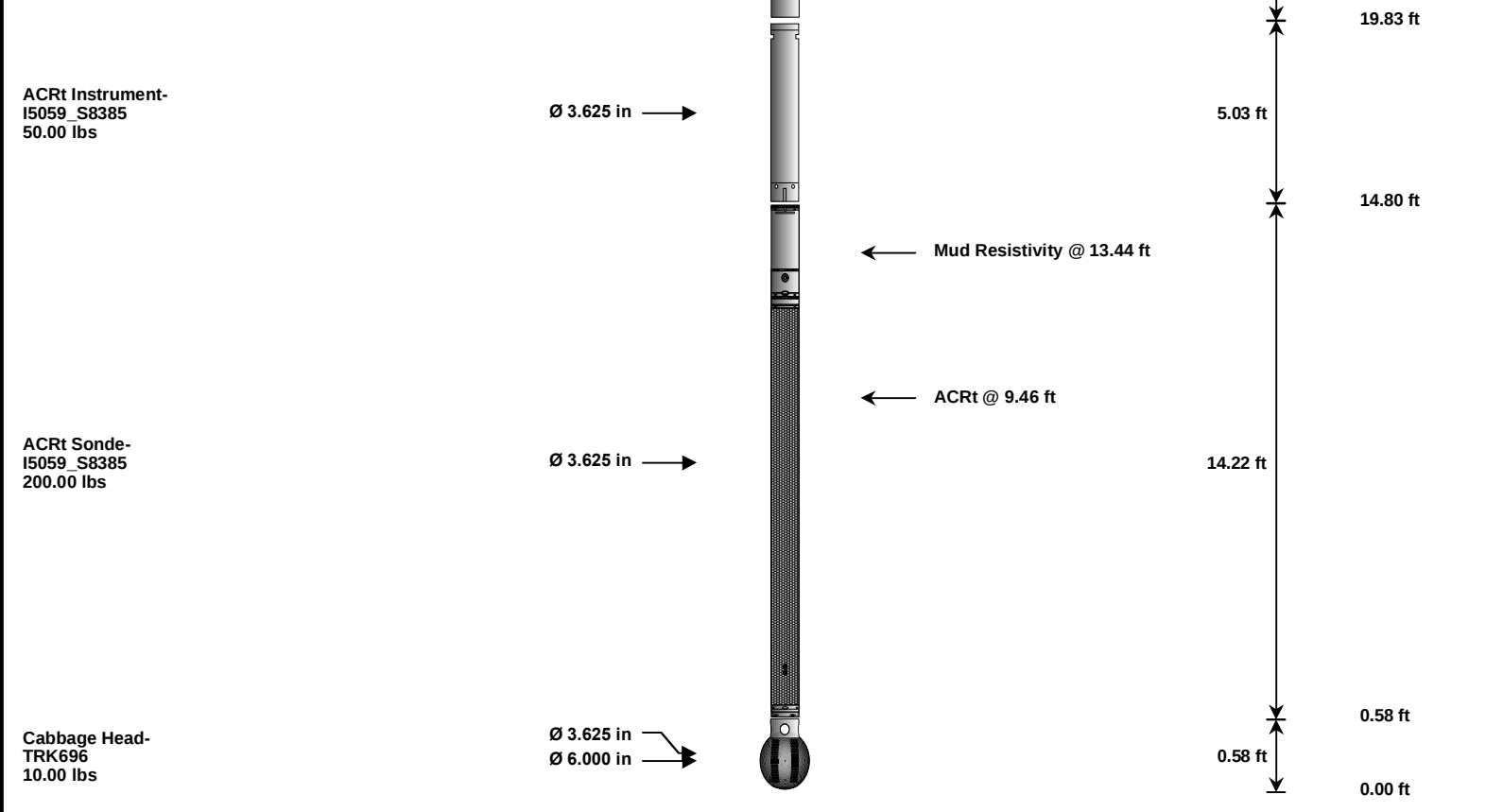
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Plot File: \\-LOCAL-KYLIE_ROSE_3305\0001 SP-GTET-DSN-SDL-IDT-ICT-WSTT-ACRT-CHIPORO\BULKD_5_REP_LIB

REPEAT SECTION**HALLIBURTON****TOOL STRING DIAGRAM REPORT**

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
Cable Head- PROT01 30.00 lbs		Ø 3.625 in →			1.92 ft	114.72 ft
SP Sub-11441455 60.00 lbs		Ø 3.625 in →		← SP @ 111.02 ft	3.74 ft	112.80 ft
						109.06 ft
GTET-11048627 165.00 lbs		Ø 3.625 in →		← GammaRay @ 103.00 ft	8.52 ft	
						100.54 ft
DSNT-11019643 174.00 lbs	DSN Decentralizer- 11005605 6.60 lbs	Ø 5.000 in* → Ø 3.625 in →		← DSN Far @ 93.61 ft ← DSN Near @ 92.86 ft	9.69 ft	
						90.86 ft
SDLT-I43_M489 360.00 lbs	SDLT Pad-P81 65.00 lbs Microlog Pad-M489 8.00 lbs	Ø 4.500 in → Ø 4.750 in* → Ø 4.750 in* →		Microlog @ 83.04 ft SDL Caliper @ 82.86 ft SDL @ 82.85 ft	10.81 ft	
						80.04 ft
Flex Joint- 10834121 140.00 lbs		Ø 3.625 in →			5.67 ft	





Mnemonic		Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
CH	Standard OH Cable Head	PROT01		30.00	1.92	112.80	300.00
SP	SP Sub	11441455		60.00	3.74	109.06	300.00
GTET	Gamma Telemetry Tool	11048627		165.00	8.52	100.54	60.00
DSNT	Dual Spaced Neutron	11019643		174.00	9.69	90.86	60.00
DCNT	DSN Decentralizer	11005605		6.60	5.13	* 94.19	300.00
SDLT	Spectral Density Tool	I43_M489		360.00	10.81	80.04	60.00
MICP	Microlog Pad	M489		8.00	1.00	* 82.54	60.00
SDLP	Density Insite Pad	P81		65.00	2.55	* 82.25	60.00
FLEX	Flex Joint	10834121		140.00	5.67	74.37	300.00
IDT	Insite Directional Tool	10967514		150.00	7.58	66.79	30.00
ICT	Six Independent Arm Caliper	11204020		330.00	12.83	53.96	30.00
WSTT	WAVE Transmitter Electronics - Insite	10055643		151.50	8.33	45.63	100.00
OBCEN	Centralizer - 25 in. Overbody	001		8.00	2.08	* 47.81	300.00
WTIS	WAVE Standard Transmitter - Standard Isolator	10055645		277.00	10.88	34.75	100.00
WSTT	WAVE Receiver Section - Offset Dipole	10055644		135.00	6.67	28.08	30.00
WSTT	WAVE Lower Electronics - Insite	10055646		146.50	8.25	19.83	100.00
OBCEN	Centralizer - 25 in. Overbody	003		8.00	2.08	* 22.13	300.00
ACRt	Array Compensated True Resistivity Instrument Section	I5059_S8385		50.00	5.03	14.80	300.00
ACRt	Array Compensated True Resistivity Sonde Section	I5059_S8385		200.00	14.22	0.58	300.00
CBHD	Cabbage Head	TRK696		10.00	0.58	0.00	300.00
Total				2,474.60	114.72		
* Not included in Total Length and Length Accumulation.							
Data: KYLIE_ROSE_3305\0001 SP-GTET-DSN-SDL-IDT-ICT-WSTT-ACRT-CH\IDLE						Date: 15-Aug-12 10:40:32	

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION			
Tool Name:	GTET - 11048627	Reference Calibration Date:	09-Aug-12 10:44:30
Engineer:	T. HYDE	Calibration Date:	09-Aug-12 10:50:33

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

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	57.5	57.1	api
Background + Calibrator	328.7	326.8	api
Calibrator	271.3	269.6	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name:GTET - 11048627

Reference Calibration Date:09-Aug-12 10:50:33

Engineer:T. HYDE

Calibration Date:15-Aug-12 11:00:50

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

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	57.1	39.7	api
Background + Calibrator	326.8	310.0	api
Calibrator	269.6	270.3	api

Shop	Field	Difference	Tolerance
269.6	270.3	-0.7	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name:DSNT - 11019643

Reference Calibration Date:10-Aug-12 09:44:57

Engineer:T. HYDE

Calibration Date:10-Aug-12 09:57:43

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

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: 78 degF

Min. Tool Housing Outside Diameter: 3.620 in

CALIBRATION CONSTANTS			
Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.952	0.952	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	0.2107	0.0000	+/- 0.0020
Calibrated Ratio:	9.72	9.72	0.002	+/- 0.050

VERIFIER		
Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0647	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:	10-Aug-12 09:57:43
Engineer:	T. HYDE	Calibration Date:	11-Aug-12 21:08:58
Software Version:	WL INSITE R3.6.0 (Build 3)	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):	0.0647	0.0693	0.0046
			+/- 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_M489	Reference Calibration Date:	12-Jul-12 11:56:20
Engineer:	T. HYDE	Calibration Date:	10-Aug-12 13:20:46
Software Version:	WL INSITE R3.6.0 (Build 3)	Calibration Version:	1
Host Tool Name:	DSNT - 11019643		
CALIBRATION COEFFICIENTS			
Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-2130.51	-2529.58	-7000.00 - -1000.00
Pad Gain	0.0004016	0.0004215	0.000200 - 0.000600
Arm Offset	-714.63	1187.04	-5000.00 - 3000.00
Arm Gain	0.0005524	0.0004034	0.000300 - 0.000700
Arm Power	-0.000007671	0.000002094	-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)	2.07	2.00	-0.07
			+/- 0.20
Medium Ring (in)	3.73	3.75	0.02
			+/- 0.20
RING DIAMETER:			
Small Ring (in)	6.38	6.50	0.12
			+/- 0.20
Medium Ring (in)	8.44	8.25	-0.19
			+/- 0.20
Large Ring (in)	15.08	15.00	-0.08
			+/- 0.20
PASS/FAIL SUMMARY			
Calibration-Coefficients Range Check:		Passed	
Ring-Measurement Check:		Passed	
PASS/FAIL SUMMARY			
Calibration-Coefficients Range Check:		Passed	
SPECTRAL DENSITY SHOP CALIBRATION			
Tool Name:	SDLT Pad - P81	Reference Calibration Date:	10-Aug-12 11:31:26

Logging Source S/N: 5168GW

Aluminum Block S/N: LIBERAL

Magnesium Block S/N: LIBERAL

Density: 2.598g/cc

Density: 1.684g/cc

Pe: 3.170

Pe: 2.598

Density Calibration Summary			
Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0481	1.0562	0.90 - 1.10
Near Dens Gain	1.0278	1.0364	0.90 - 1.10
Near Peak Gain	1.0245	1.0524	0.90 - 1.10
Near Lith Gain	1.0006	1.0234	0.90 - 1.10
Far Bar Gain	1.0186	1.0128	0.90 - 1.10
Far Dens Gain	1.0024	1.0012	0.90 - 1.10
Far Peak Gain	0.9960	0.9928	0.90 - 1.10
Far Lith Gain	0.9724	0.9721	0.90 - 1.10
Near Bar Offset	-0.2447	-0.3186	NONE
Near Dens Offset	-0.0693	-0.1422	NONE
Near Peak Offset	-0.0351	-0.2659	NONE
Near Lith Offset	0.1493	-0.0358	NONE
Far Bar Offset	-0.0284	0.0226	NONE
Far Dens Offset	0.1035	0.1123	NONE
Far Peak Offset	0.1312	0.1570	NONE
Far Lith Offset	0.2924	0.2917	NONE
Near Bar Background	816.13	814.50	700 - 1450
Near Dens Background	266.21	267.82	230 - 480
Near Peak Background	117.08	115.74	100 - 210
Near Lith Background	143.90	144.47	125 - 260
Far Bar Background	532.29	535.49	450 - 900
Far Dens Background	209.58	211.26	175 - 345
Far Peak Background	84.04	84.43	70 - 140
Far Lith Background	86.02	87.66	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	2.603	2.564	-0.039	+/- 0.150
ALUMINUM				
Density (g/cc)	2.599	2.598	-0.001	+/- 0.01500
Pe	3.142	3.133	-0.009	+/- 0.150

Tool Summary				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	0.0014	+/- 0.0110	0.0016	+/- 0.0140
Magnesium Block	-0.0003	+/- 0.0110	-0.0021	+/- 0.0140
Aluminum Block	0.0000	+/- 0.0110	-0.0003	+/- 0.0140
Resolution	9.31	6.00 - 11.50	8.82	6.00 - 11.50

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:	10-Aug-12 11:49:11
Engineer:	T. HYDE	Calibration Date:	15-Aug-12 11:08:54
Software Version:	WL INSITE R3.6.0 (Build 3)	Calibration Version:	1

Pad Temperature: 75.2 degF

DENSITY FIELD CALIBRATION SUMMARY				
Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1342.531	1348.245	5.714	14.818
Far (B+D+P+L) cps	918.840	915.330	-3.510	16.432
Near Resolution	9.31	9.41	0.100	0.50
Far Resolution	8.82	9.25	0.430	1.00

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

SDLT CALIPER FIELD CALIBRATION

Tool Name:	SDLT - I43_M489	Reference Calibration Date:	10-Aug-12 13:20:46
Engineer:	T. HYDE	Calibration Date:	15-Aug-12 11:17:22
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	3.72	-0.03	+/- 0.10
Ring Diameter	8.25	8.35	0.10	+/- 0.15

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

CALIBRATION SUMMARY

Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11048627						
Gamma Ray Calibrator	269.6	270.3	-----	-0.7	+/- 9.00	api
DSNT-11019643						
Snow-Block Porosity	0.0647	0.0693	-----	-0.0046	+/- 0.0150	decp
SDLT-I43_M489						
Pad Extension	3.75	3.72		-0.03	+/- 0.10	

Pad Extension	3.75	3.72	-----	0.03	+/-0.10	in
Ring Diameter	8.25	8.35	-----	-0.10	+/-0.15	in
SDLT Pad-P81						
Near(B+D+P+L)	1342.531	1348.245	-----	-5.714	+/-14.818	cps
Far(B+D+P+L)	918.840	915.330	-----	3.510	+/-16.432	cps
Data: KYLIE_ROSE_330510001 SP-GTET-DSN-SDL-IDT-ICT-WSTT-ACRT-CHUDLE						
Date: 15-Aug-12 12:13:53						

HALLIBURTON

PARAMETERS REPORT

Depth (ft))	Tool Name	Mnemonic	Description	Value	Units
TOP					
	SHARED	BS	Bit Size	8.750	in
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	MDBS	Mud Base	Water	
	SHARED	MDWT	Borehole Fluid Weight	9.100	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	0.480	ohmm
	SHARED	TRM	Temperature of Mud	75.0	degF
	SHARED	CSD	Logging Interval is Cased?	No	
	SHARED	ICOD	AHV Casing OD	7.000	in
	SHARED	ST	Surface Temperature	75.0	degF
	SHARED	TD	Total Well Depth	5300.00	ft
	SHARED	BHT	Bottom Hole Temperature	200.0	degF
	SHARED	SVTM	Navigation and Survey Master Tool	IDT	
	SHARED	AZTM	High Res Z Accelerometer Master Tool	IDT	
	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	
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
IDT	WRTI	Survey Writing Interval	30	ft
IDT	SOPT	Smoothing Option	None	
ICT	CLOK	Process Caliper Outputs?	Yes	
ICT	NAVS	Navigation Source Tool	IDT	
WAVE Receivers	WSOK	Process WSTT?	Yes	
WAVE Receivers	AFIL	Adaptive Filtering?	No	
WAVE Receivers	PINT	Process 1 Sample and Skip	0	
WAVE Receivers	PROM	Process Mode: M=1,MX=2,MY=3,MXY=4	4	
WAVE Receivers	DTSH	Delta -T Shale	100.00	uspf
WAVE Receivers	DTMT	Delta -T Matrix Type	User define	
WAVE Receivers	DTMA	Delta -T Matrix	47.60	uspf
WAVE Receivers	DTFL	Delta -T Fluid	189.00	uspf
WAVE Receivers	RHOM	Matrix Density	2.7100	g/cc
WAVE Receivers	RHOF	Fluid Density	1.0000	g/cc
WAVE Receivers	SMTH	Semblance Threshold	0.25	
WAVE Receivers	VPVS	VPVS Ratio for Porosity	1.40	
WAVE Receivers	APEQ	Acoustic Porosity Equation	Wylie	
WAVE Receivers	NAVS	Navigation Source Tool	IDT	
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	Centered	
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				
Data: KYLIE_ROSE_330510001 SP-GTET-DSN-SDL-IDT-ICT-WSTT-ACRT-CHIDLE			Date: 15-Aug-12 12:14:08	

INPUTS, DELAYS AND FILTERS TABLE				
Mnemonic	Input Description	Delay (ft)	Filter Type	Filter Length (ft)
Depth Panel				
TENS	Tension	0.00	NO	
SP Sub				
PLTC	Plot Control Mask	111.02	NO	
SP	Spontaneous Potential	111.02	BLK	1.250
SPR	Raw Spontaneous Potential	111.02	NO	
SPO	Spontaneous Potential Offset	111.02	NO	
GTET				
TPUL	Tension Pull	103.00	NO	
GR	Natural Gamma Ray API	103.00	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	103.00	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	103.00	W	1.416 , 0.750
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	
DSNT				
TPUL	Tension Pull	92.76	NO	
RNDS	Near Detector Telemetry Counts	92.86	BLK	1.417
RFDS	Far Detector Telemetry Counts	93.61	TRI	0.583
DNTT	DSN Tool Temperature	92.86	NO	
DSNS	DSN Tool Status	92.76	NO	
ERND	Near Detector Telemetry Counts EVR	92.86	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	93.61	BLK	0.000
ENTM	DSN Tool Temperature EVR	92.86	NO	
SDLT				
TPUL	Tension Pull	82.86	NO	
PCAL	Pad Caliper	82.86	TRI	0.250
ACAL	Arm Caliper	82.86	TRI	0.250
IDT				
TPUL	Tension Pull	67.79	NO	
ACCX	Accelerometer X	67.79	NO	
ACCY	Accelerometer Y	67.79	NO	
ACCZ	Accelerometer Z	67.79	NO	
MAGX	magnetometer x with unit	67.79	NO	
MAGY	Magnetometer Y with unit	67.79	NO	
MAGZ	magnetometer z with unit	67.79	NO	
IAMP	Accelerometer Temperature	67.79	NO	
MTMP	Magnetometer Temperature	67.79	NO	
ICT				
TPUL	Tension Pull	56.75	NO	
	Arm Potentiometer excitation V	53.96	NO	
	Caliper 1 measurement	56.75	BLK	1.250
	Caliper 2 measurement	56.75	BLK	1.250
	Caliper 3 measurement	56.75	BLK	1.250
	Caliper 4 measurement	56.75	BLK	1.250
	Caliper 5 measurement	56.75	BLK	1.250
	Caliper 6 measurement	56.75	BLK	1.250
	Caliper Global measurement	56.75	BLK	1.250

MOTI	Motor Current	53.96	NO
MOT1	Motor Voltage Monitor 1	53.96	NO
STA1	Status word #1	53.96	NO
STA2	Status word #2	53.96	NO
PRES	Caliper percentage of total compression of the spring	53.96	NO
HAZI	Hole Azimuth	56.75	NO
RB	Relative Bearing	56.75	NO
AZI1	PAD1 Azimuth	56.75	NO
DEVI	Inclination	56.75	NO
WAVE Receivers			
TPUL	Tension Pull	31.33	NO
XMS1	Wave Sonic Status Word 1	28.08	NO
XMS2	Wave Sonic Status Word 2	28.08	NO
XMS1	Wave Sonic XMITStatus Word 1	28.08	NO
XMS1	Wave Sonic XMITStatus Word 2	28.08	NO
F1HA	Dipole 1 HV After	28.08	NO
F1HB	Dipole 1 HV Before	28.08	NO
F2HA	Dipole 2 HV After	28.08	NO
F2HB	Dipole 2 HV Before	28.08	NO
F3HA	Monopole HV After	28.08	NO
F3HB	Monopole HV Before	28.08	NO
F4HA	Monopole 2 HV After	28.08	NO
F4HB	Monopole 2 HV Before	28.08	NO
INVT	Input Voltage	28.08	NO
5VOL	5 Volts	28.08	NO
MI5A	Minus 5 Volts Analog	28.08	NO
ITMP	Instrument Temperature	28.08	NO
PL5A	Plus 5 Volts Analog	28.08	NO
5VD	Plus 5 Volts Digital	28.08	NO
TCUR	Tool Current	28.08	NO
SUPV	Supply Voltage	28.08	NO
PRVT	Preregulated voltage	28.08	NO
PRVT	Pre-regulated voltage Xmter	28.08	NO
TEMP	Temperature	28.08	NO
ACQN	Acquisition Number	28.08	NO
XDP	Delay Reference	31.33	NO
MITM	MIT Mode	31.33	NO
VERS	Version	28.08	NO
SEQN	Sequence Number	28.08	NO
FREV	Firmware Revision	28.08	NO
WVST	Wavesonic Compressed Data	31.33	NO
WVS4	Wavesonic Monopole 2 Compressed Data	31.33	NO
TPUL	Tension Pull	31.33	NO
WMP	Summed array of Monopole for SIDES - A,B,C,D	31.33	NO
WM2P	Summed array of Monopole 2 for SIDES - A,B,C,D	31.33	NO
WXX	Dipole X for SIDES - A-C	31.33	NO
WYY	Dipole Y for SIDES - B-D	31.33	NO
WXY	Dipole X for SIDES - B-D	31.33	NO
WYX	Dipole Y for SIDES - A-C	31.33	NO
TPUL	Tension Pull	31.33	NO
WMA	Monopole Waveform Side A - Channel 1 to Channel 8 Receivers	31.33	NO
WMB	Monopole Waveform Side B - Channel 1 to Channel 8 Receivers	31.33	NO
WMC	Monopole Waveform Side C - Channel 1 to Channel 8 Receivers	31.33	NO
	Monopole Waveform Side D - Channel 1 to Channel 8		

WMD	Monopole Waveform Side D - Channel 1 to Channel 8 Receivers	31.33	NO	
WM2A	Monopole 2 Waveform Side A - Channel 1 to Channel 8 Receivers	31.33	NO	
WM2B	Monopole 2 Waveform Side B - Channel 1 to Channel 8 Receivers	31.33	NO	
WM2C	Monopole 2 Waveform Side C - Channel 1 to Channel 8 Receivers	31.33	NO	
WM2D	Monopole 2 Waveform Side D - Channel 1 to Channel 8 Receivers	31.33	NO	
WXA	Dipole X Waveform Side A - Channel 1 to Channel 8 Receivers	31.33	NO	
WXB	Dipole X Waveform Side B - Channel 1 to Channel 8 Receivers	31.33	NO	
WXC	Dipole X Waveform Side C - Channel 1 to Channel 8 Receivers	31.33	NO	
WXD	Dipole X Waveform Side D - Channel 1 to Channel 8 Receivers	31.33	NO	
WYA	Dipole Y Waveform Side A - Channel 1 to Channel 8 Receivers	31.33	NO	
WYB	Dipole Y Waveform Side B - Channel 1 to Channel 8 Receivers	31.33	NO	
WYC	Dipole Y Waveform Side C - Channel 1 to Channel 8 Receivers	31.33	NO	
WYD	Dipole Y Waveform Side D - Channel 1 to Channel 8 Receivers	31.33	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

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	

Microlog Pad

TPUL	Tension Pull	83.04	NO	
MINV	Microlog Lateral	83.04	BLK	0.750
MNOR	Microlog Normal	83.04	BLK	0.750

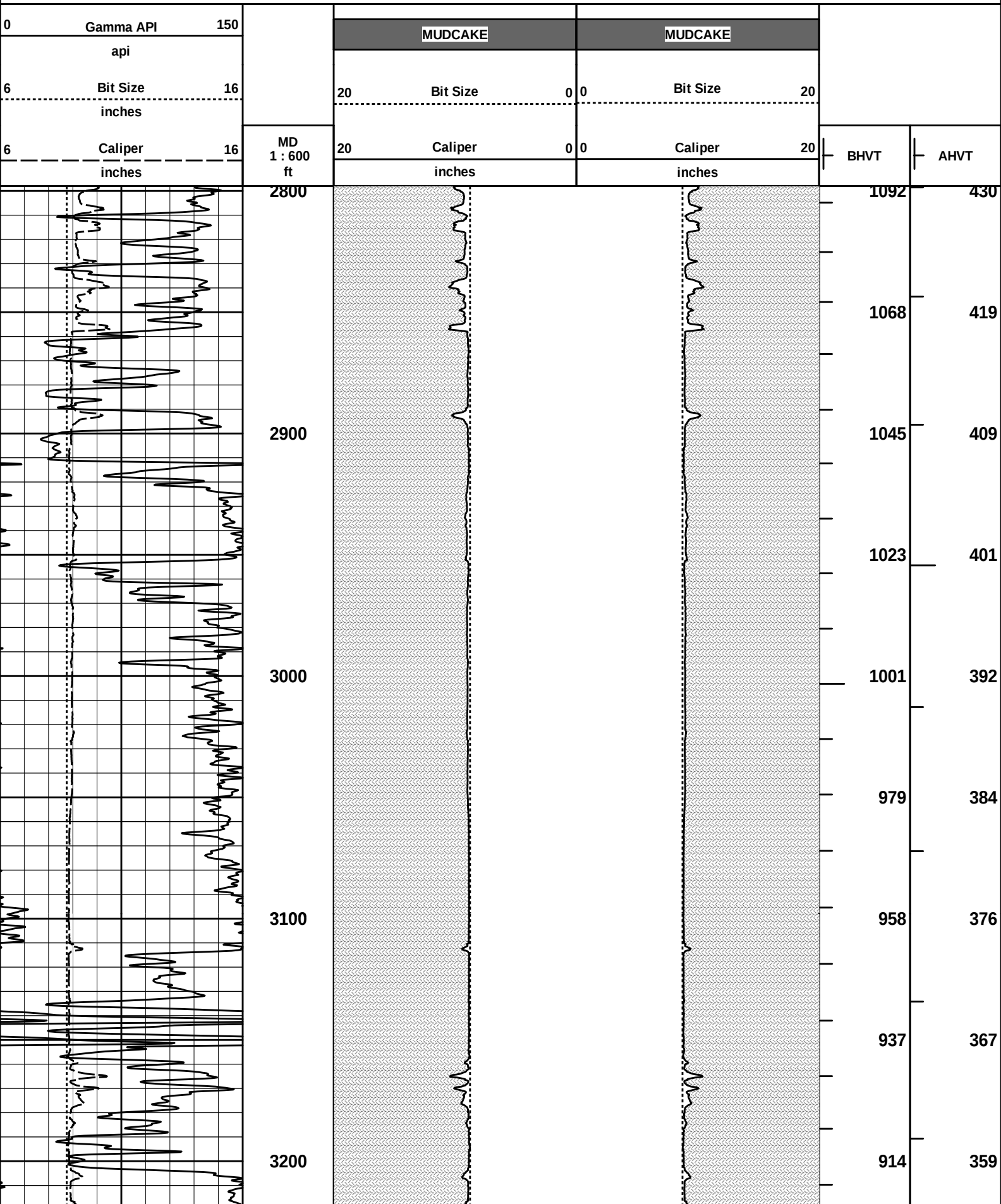
SDLT Pad

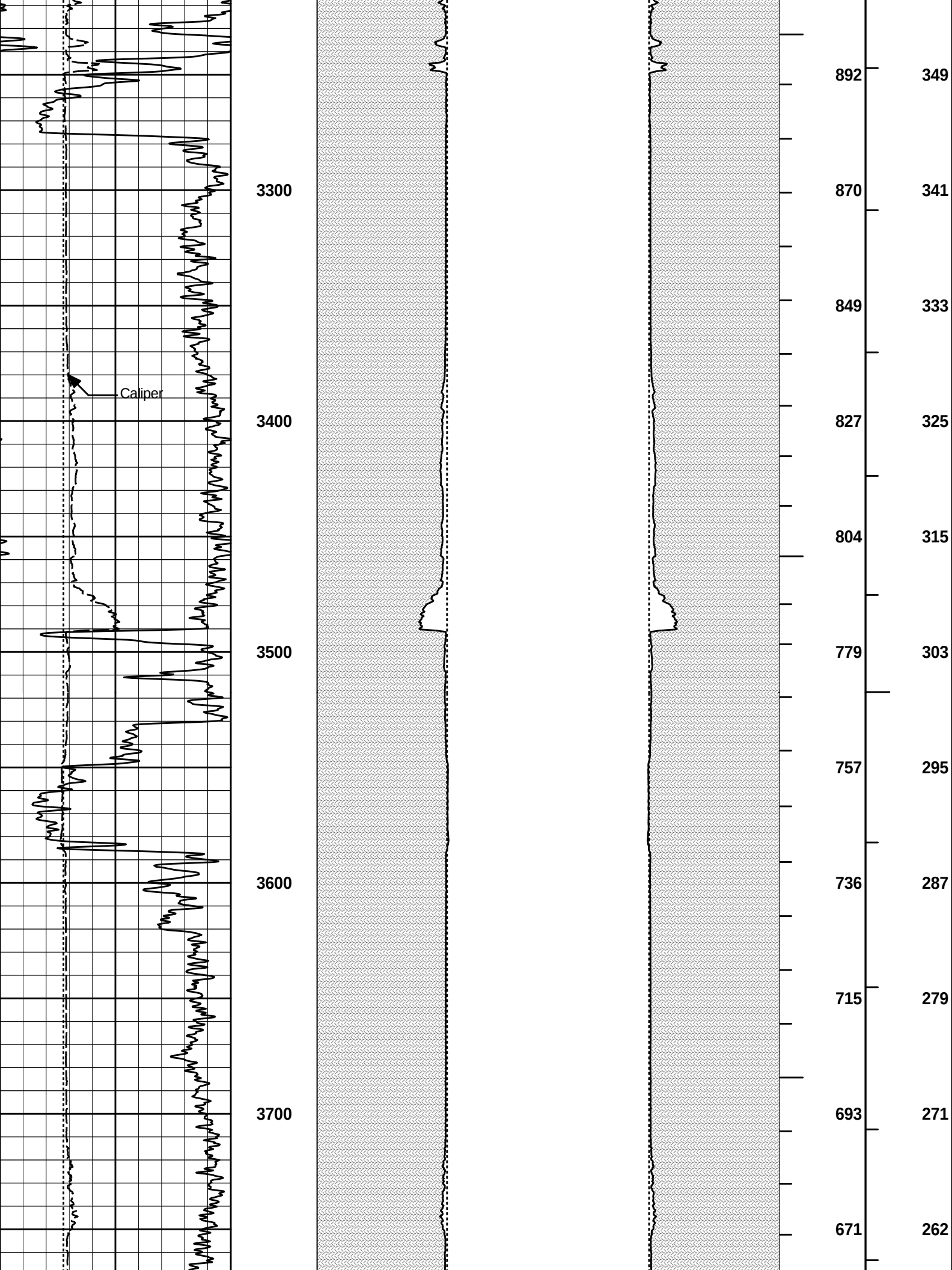
TPUL	Tension Pull	82.85	NO	
NAB	Near Above	82.67	BLK	0.920
NHI	Near Cesium High	82.67	BLK	0.920
NLO	Near Cesium Low	82.67	BLK	0.920
NVA	Near Valley	82.67	BLK	0.920
NBA	Near Barite	82.67	BLK	0.920
NDE	Near Density	82.67	BLK	0.920
NPk	Near Peak	82.67	BLK	0.920
NLI	Near Lithology	82.67	BLK	0.920
NBAU	Near Barite Unfiltered	82.67	BLK	0.250
NLIU	Near Lithology Unfiltered	82.67	BLK	0.250
FAB	Far Above	83.02	BLK	0.250
FHI	Far Cesium High	83.02	BLK	0.250
FLO	Far Cesium Low	83.02	BLK	0.250
FVA	Far Valley	83.02	BLK	0.250
FBA	Far Barite	83.02	BLK	0.250
FDE	Far Density	83.02	BLK	0.250
FPK	Far Peak	83.02	BLK	0.250
FLI	Far Lithology	83.02	BLK	0.250
PTMP	Pad Temperature	82.86	BLK	0.920
NHV	Near Detector High Voltage	82.25	NO	
FHV	Far Detector High Voltage	82.25	NO	
ITMP	Instrument Temperature	82.25	NO	
DDHV	Detector High Voltage	82.25	NO	

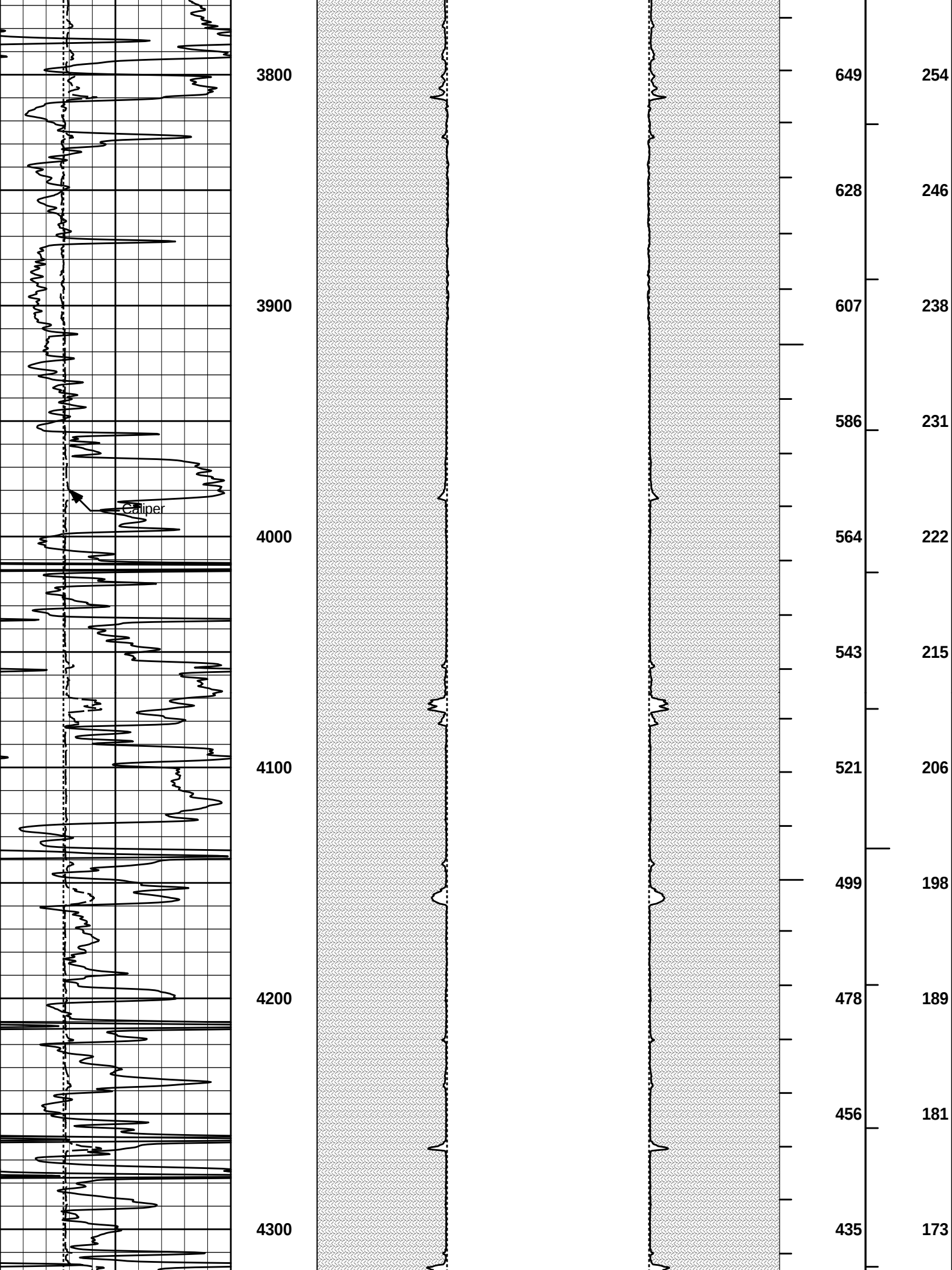
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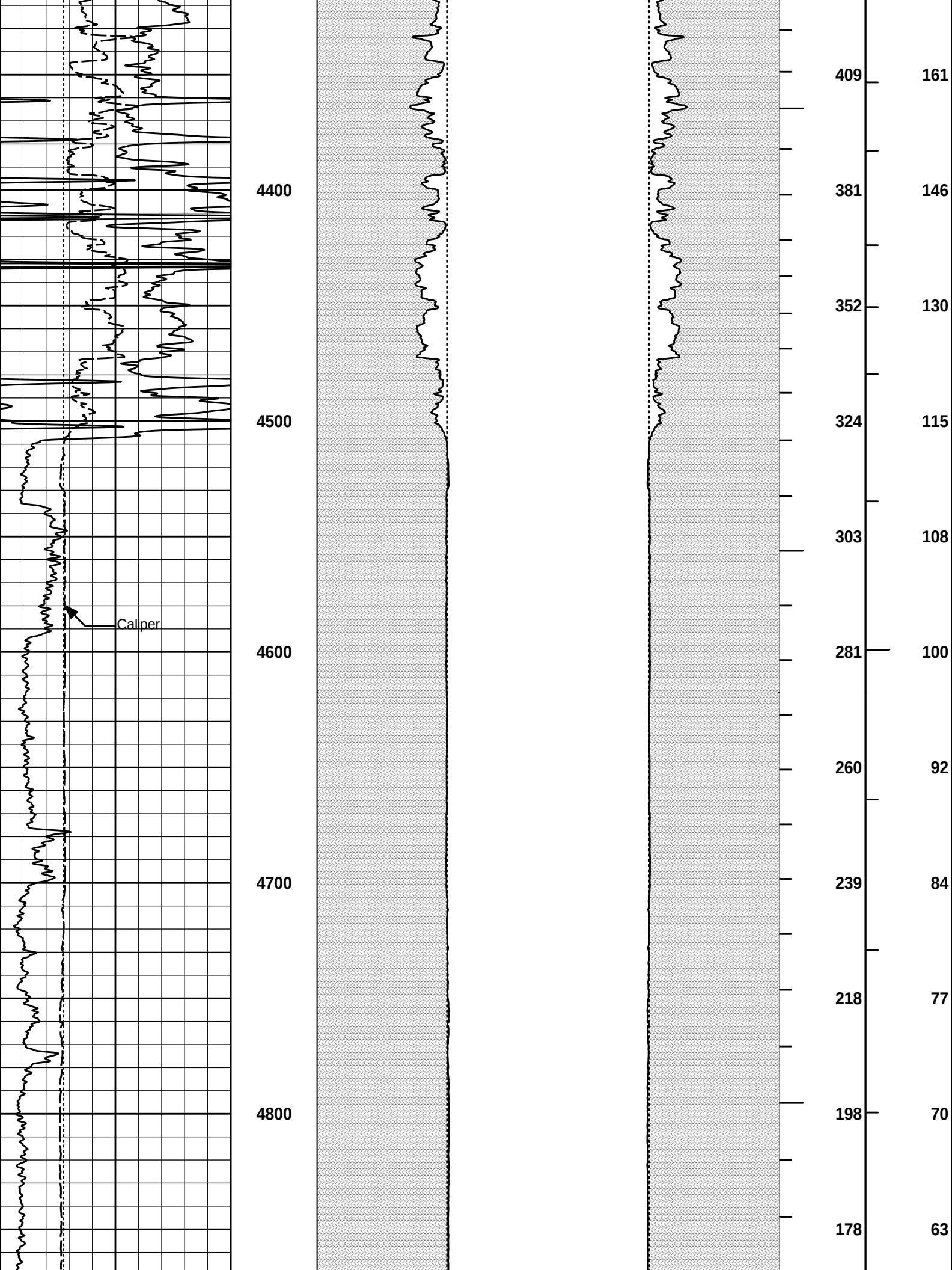
Date: 15-Aug-12 12:14:19

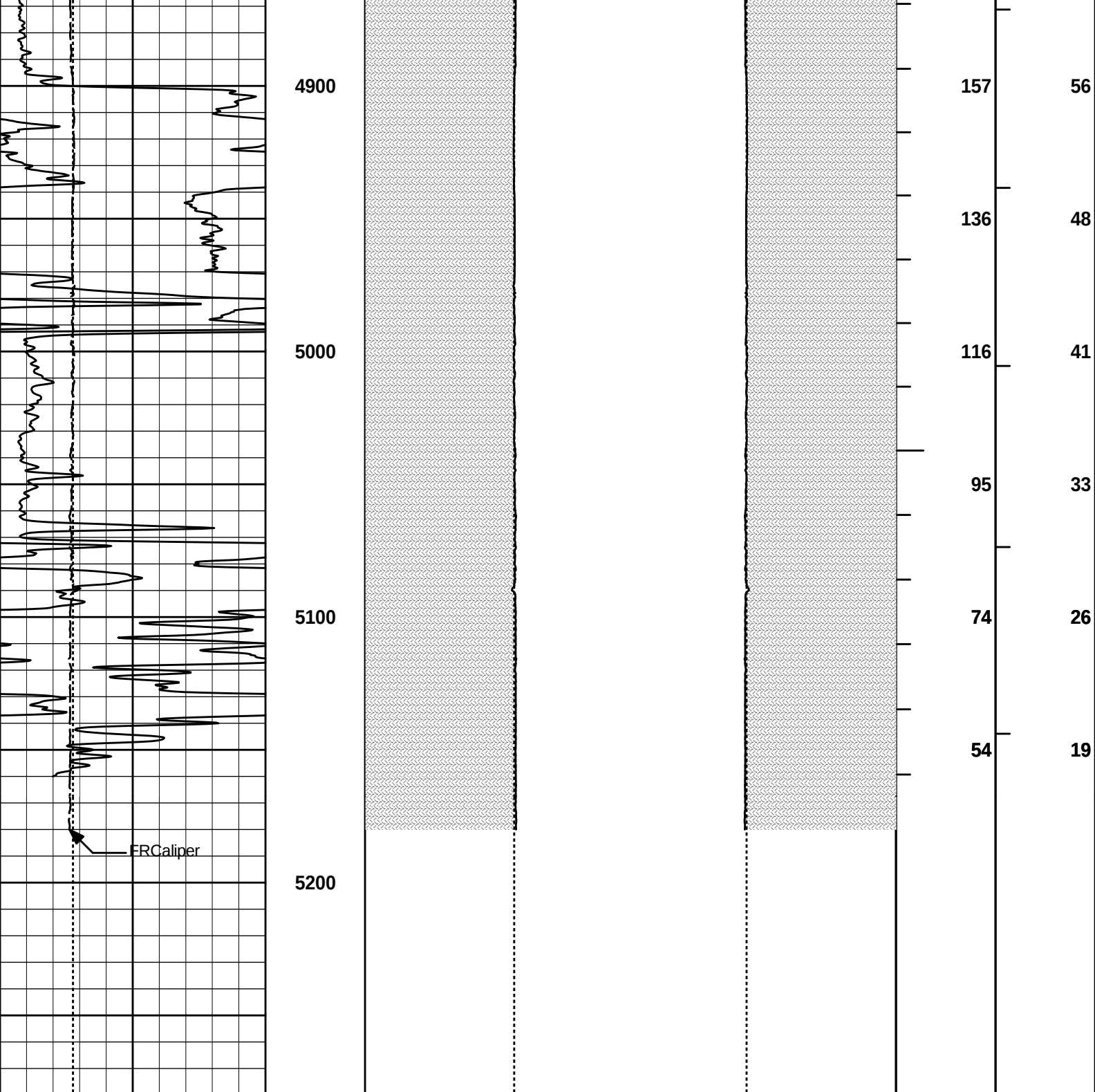
ANNULAR HOLE VOLUME PLOT











6	Caliper	16	MD 1 : 600 ft	20	Caliper	0	0	Caliper	20	BHVT	AHVT
	inches				inches			inches			
6	Bit Size	16		20	Bit Size	0	0	Bit Size	20		
	inches										
0	Gamma API	150			MUDCAKE			MUDCAKE			
	api										

HALLIBURTON

Plot Time: 15-Aug-12 15:15:46
Plot Range: 2798 ft to 5279.25 ft
Data: KYLIE_ROSE_3305\Well Based\DAQ-0001-004\
Plot File: \\-LOCAL-KYLIE_ROSE_3305\0001 SP-GTET-DSN-SDL-IDT-ICT-WSTT-ACRT-CHIPORO\AHV_2_IQ_LIB

ANNULAR HOLE VOLUME PLOT

COMPANY	SANDRIDGE ENERGY		
WELL	KYLIE ROSE SWD 3305 1-28		
FIELD	UNKNOWN		
COUNTY	HARPER	STATE	KANSAS
HALLIBURTON		DUAL SPACED NEUTRON SPECTRAL DENSITY LOG	