

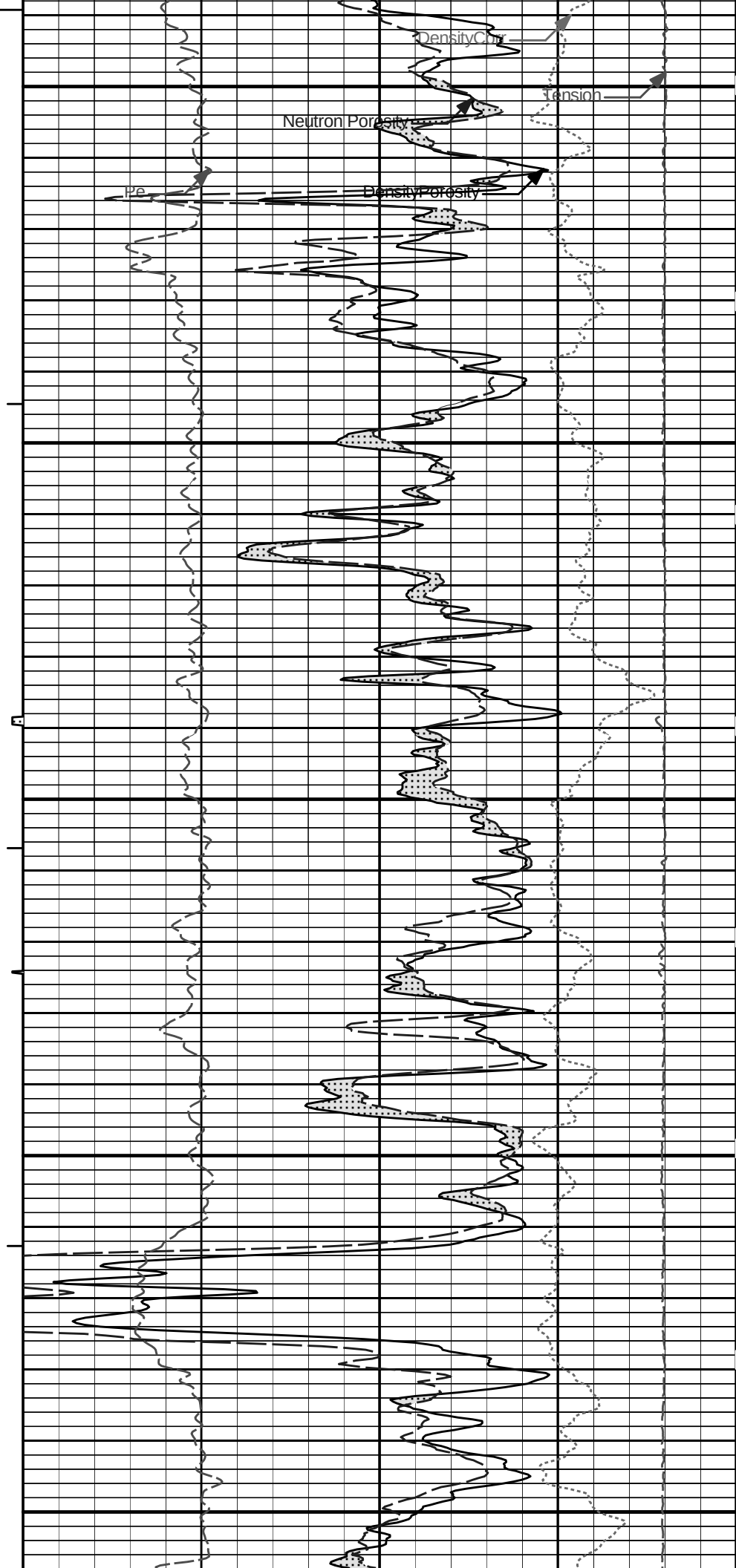
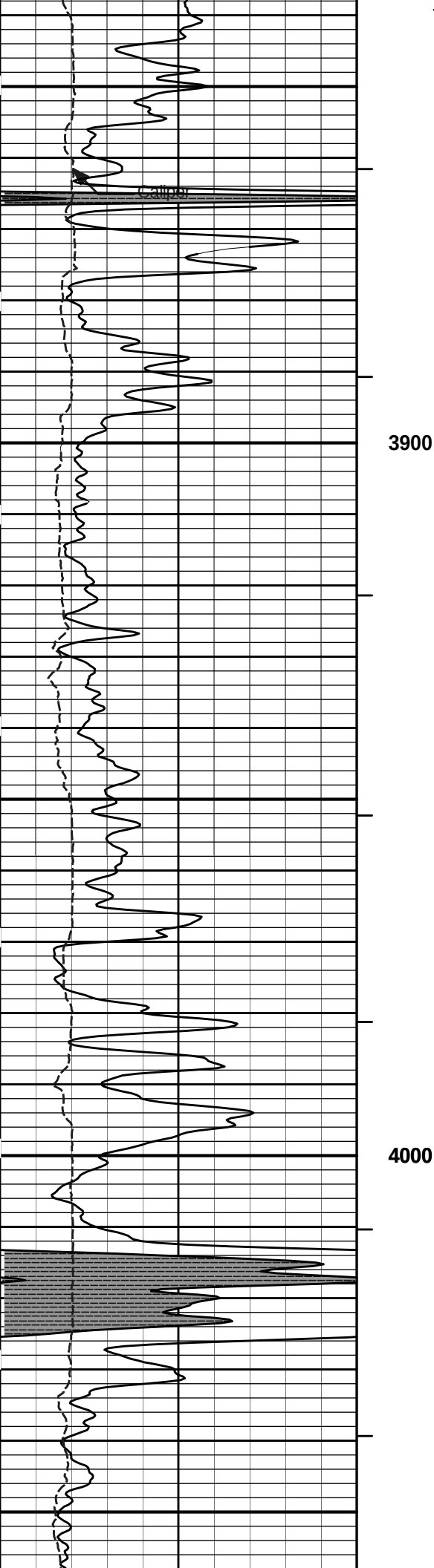
HALLIBURTON

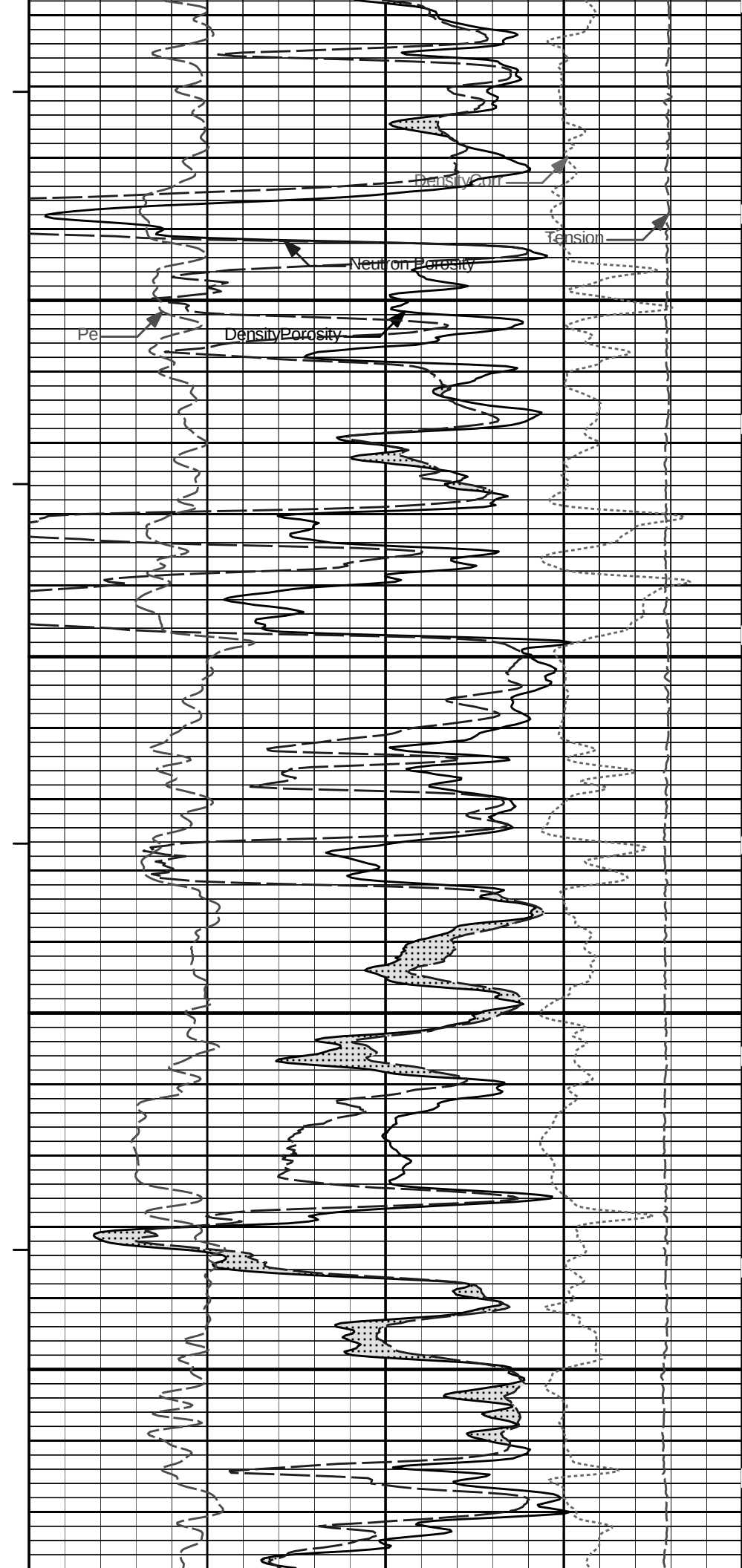
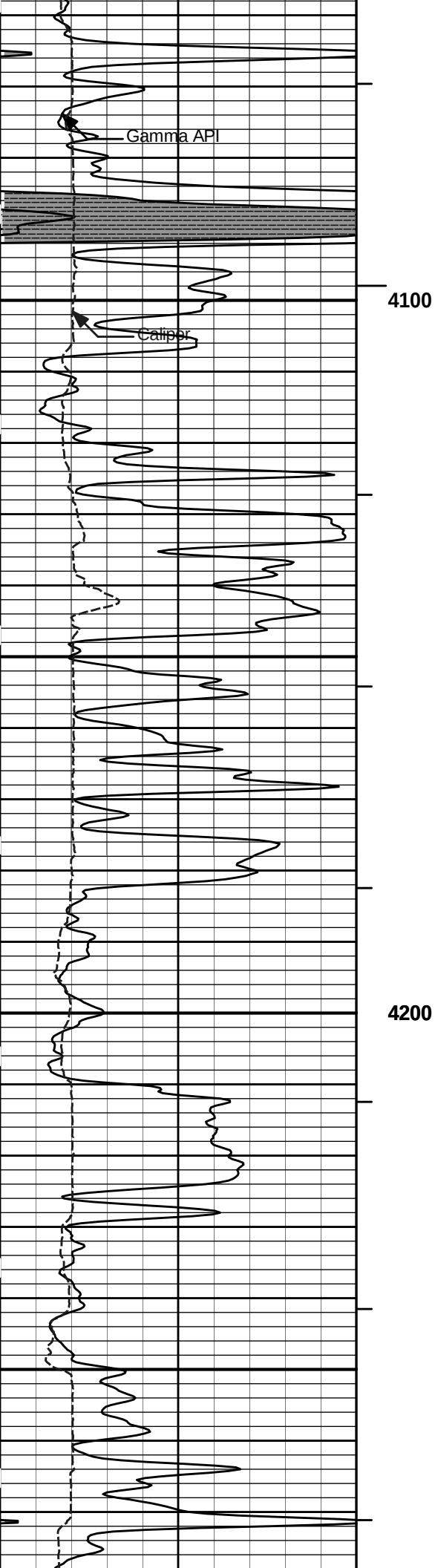
SPECTRAL DENSITY DUAL SPACED NEUTRON LOG

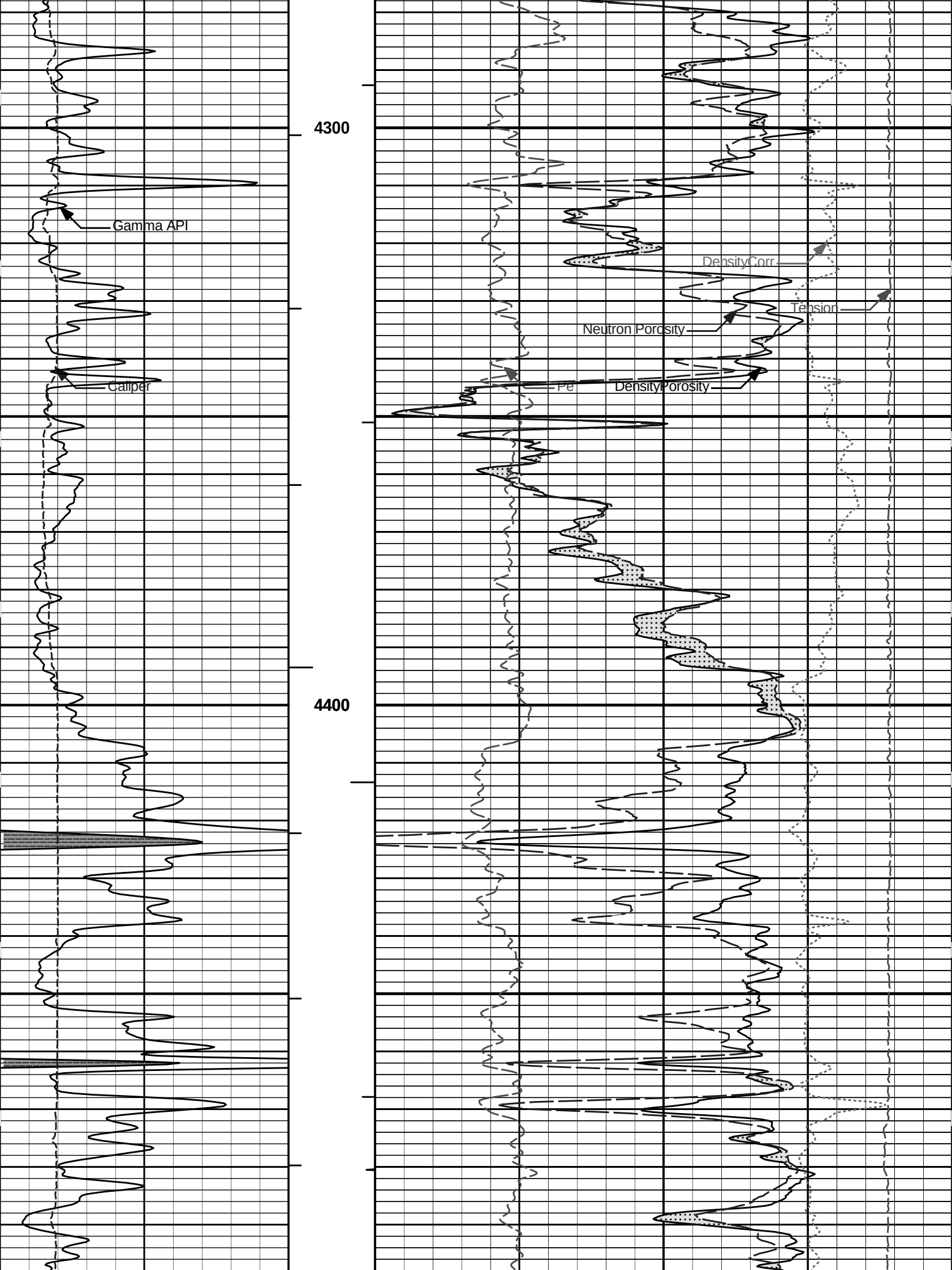
HALLBURTON										SPECTRAL DENSITY DUAL SPACED NEUTRON LOG																			
COMPANY					OXY USA, INC.					COMPANY					OXY USA, INC.														
WELL					BLASDEL A-3					WELL					BLASDEL A-3														
FIELD					LEMON					FIELD					LEMON														
COUNTY					HASKELL					COUNTY					HASKELL														
STATE					KANSAS					STATE					KANSAS														
Permanent Datum					GL					Sect. 4					Twp. 30S					Rge. 33W					Other Services: MICRO IDT BSAT ACRT				
Log measured from					KB					Location					440' FNL & 330' FWL					Elev. 2961.0 ft					D.F. 2976.0 ft				
Drilling measured from					KB															16.0 ft above perm. Datum					G.L. 2961.0 ft				
Date					06-May-12																								
Run No.					ONE																								
Depth - Driller					5611.00 ft																								
Depth - Logger					5580.0 ft																								
Bottom - Logged Interval					5542.0 ft																								
Top - Logged Interval					3800.0 ft																								
Casing - Driller					8.625 in @ 1822.0 ft																								
Casing - Logger					1823.0 ft																								
Bit Size					7.875 in																								
Type Fluid in Hole					WATER																								
Density					9.2 ppg					63.00 s/qt																			
PH					10.50 pH					6.0 cpm																			
Source of Sample					FLOWLINE																								
Rm @ Meas. Temperature					1.120 ohmm @ 84.00 degF																								
Rmf @ Meas. Temperature					1.10 ohmm @ 78.00 degF																								
Rmc @ Meas. Temperature					1.450 ohmm @ 78.00 degF																								
Source Rmf					MEAS					MEAS																			
Rm @ BHT					0.75 ohmm @ 147.0 degF																								
Time Since Circulation					15.1 hr																								
Time on Bottom					06-May-12 05:33																								
Max. Rec. Temperature					147.0 degF @ 5580.0 ft																								
Equipment					336					LIBERAL																			
Recorded By					C.HAVERKAMP																								
Witnessed By					M. ATWOOD																								

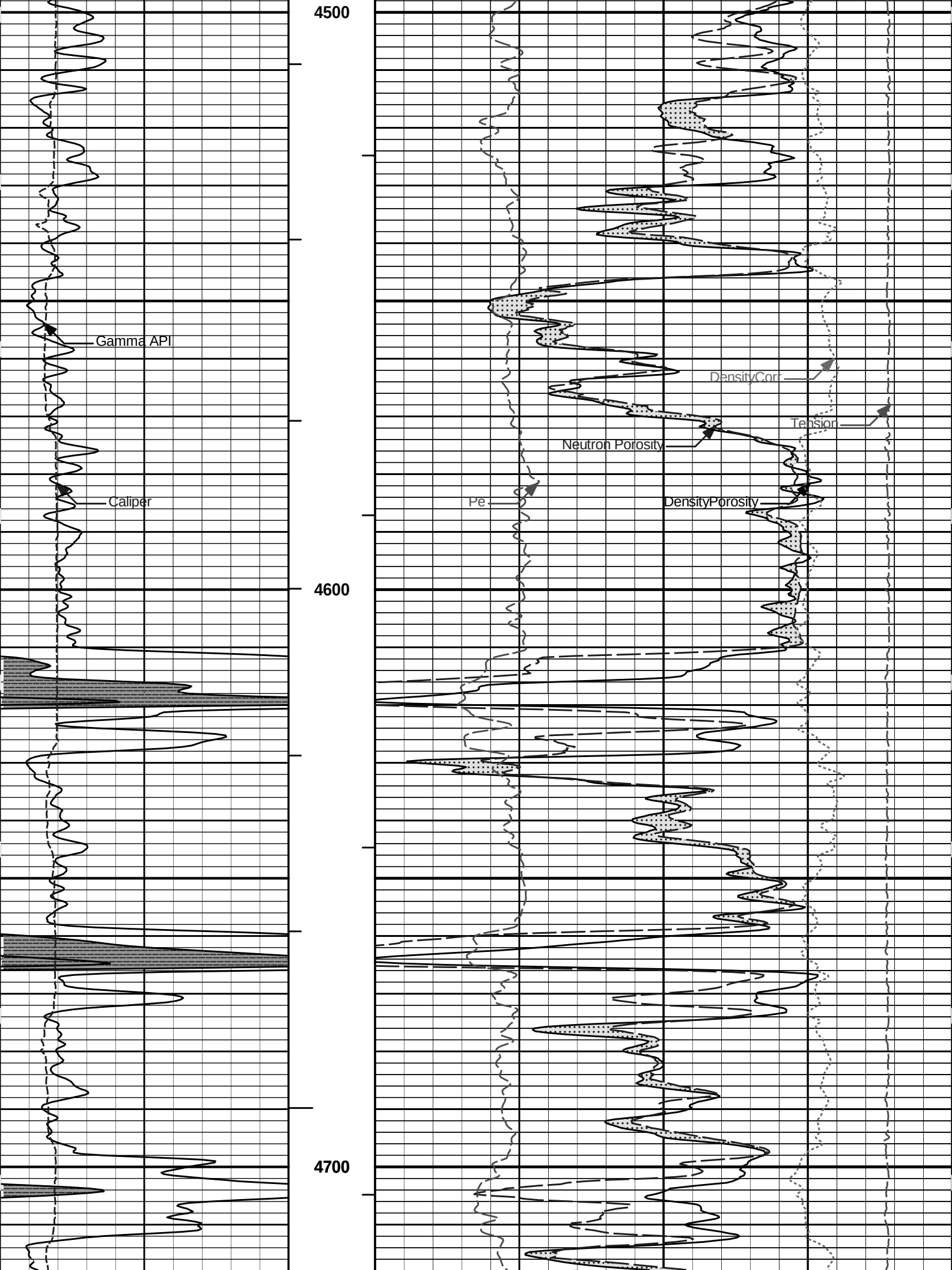
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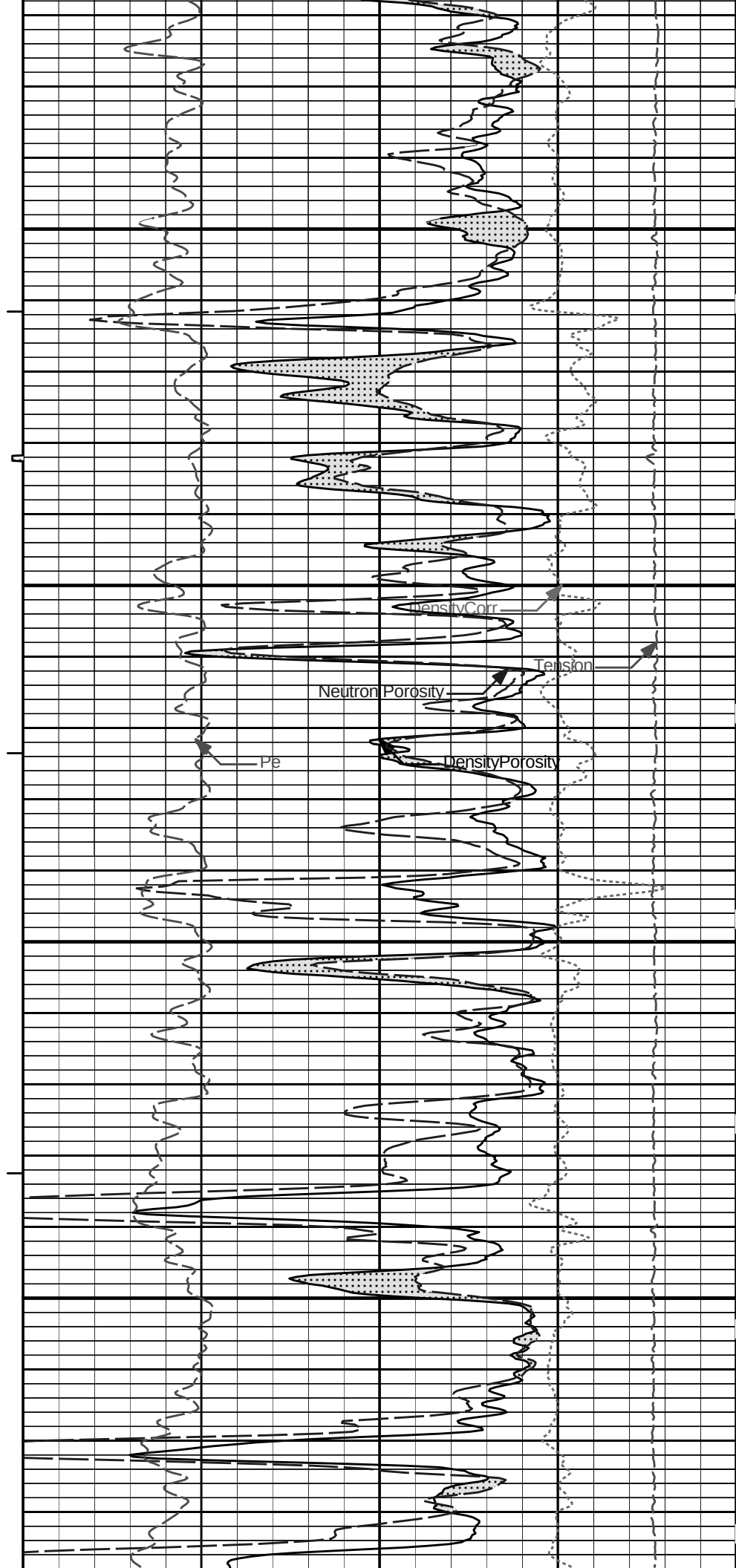
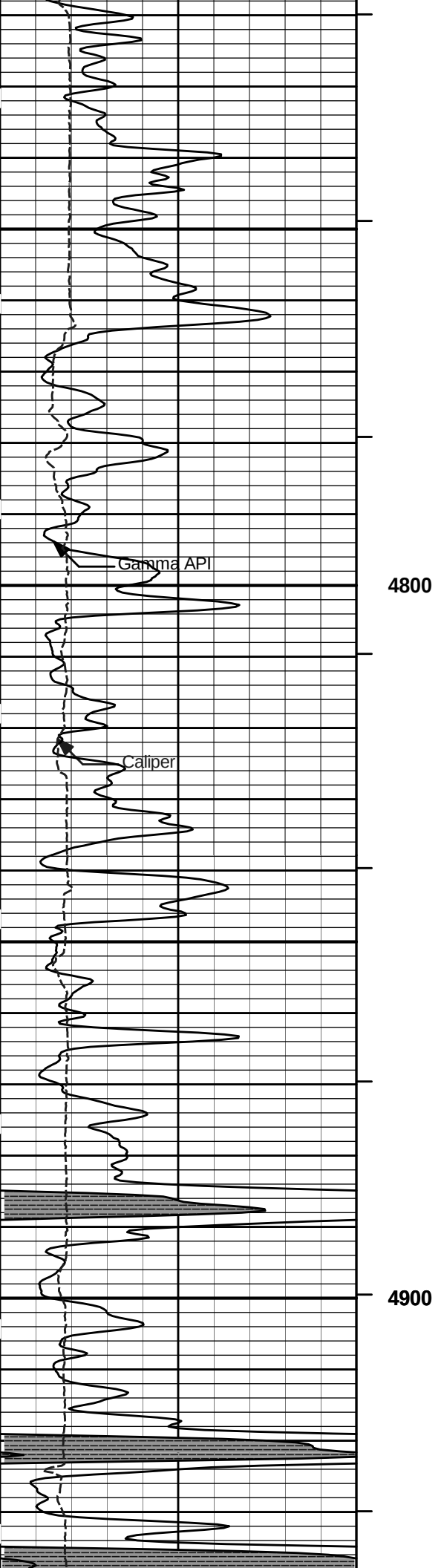
Service Ticket No.: 9466919				API Serial No.: 15-081-21969				PGM Version: WL INSITE R3.4.2 (Build 2)			
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE						RESISTIVITY SCALE CHANGES					
Date	Sample No.					Type Log	Depth	Scale Up Hole	Scale Down Hole		
Depth-Driller											
Type Fluid in Hole											
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.		@		@							
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	Run No.	ONE		
Serial No.	11021138	Serial No.		Serial No.	I947M315P774	Serial No.	11023947	Serial No.	11023947		
Model No.	GTET	Model No.		Model No.	SDLT	Model No.	DSNT	Model No.	DSNT		
Diameter	3.625"	No. of Cent.		Diameter	4.5"	Diameter	3.625"	Diameter	3.625"		
Detector Model No.	T-102	Spacing		Log Type	GAM-GAM	Log Type	NEU-NEU	Log Type	NEU-NEU		
Type	SCINT			Source Type	CS137	Source Type	AM241BE	Source Type	AM241BE		
Length	8"	LSA [Y/N]		Serial No.	5155GW	Serial No.	DSN-439	Serial No.	DSN-439		
Distance to Source	10'	FWDA [Y/N]		Strength	1.5 CI	Strength	15 CI	Strength	15 CI		

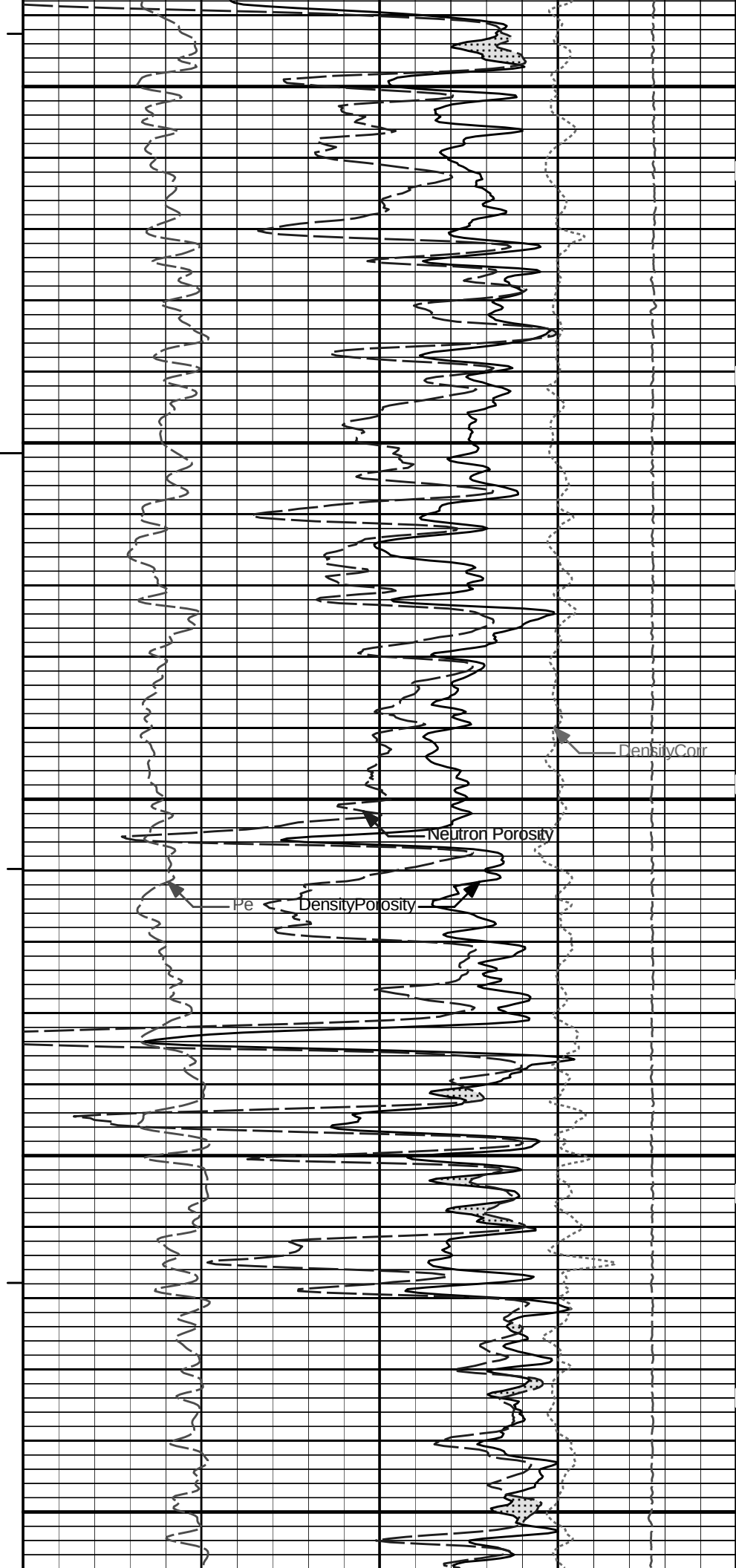
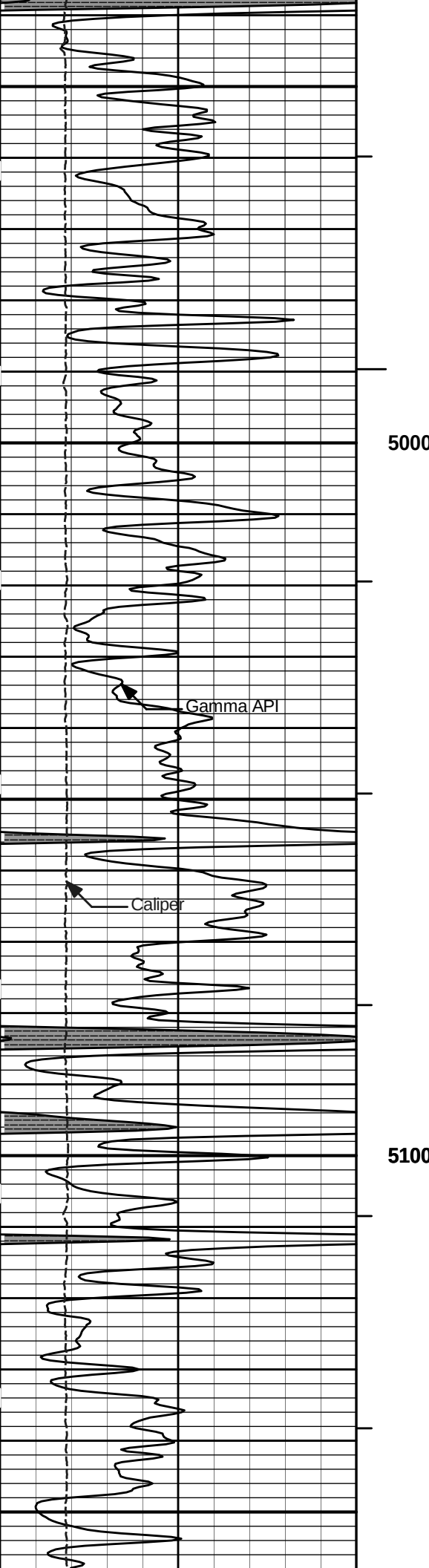


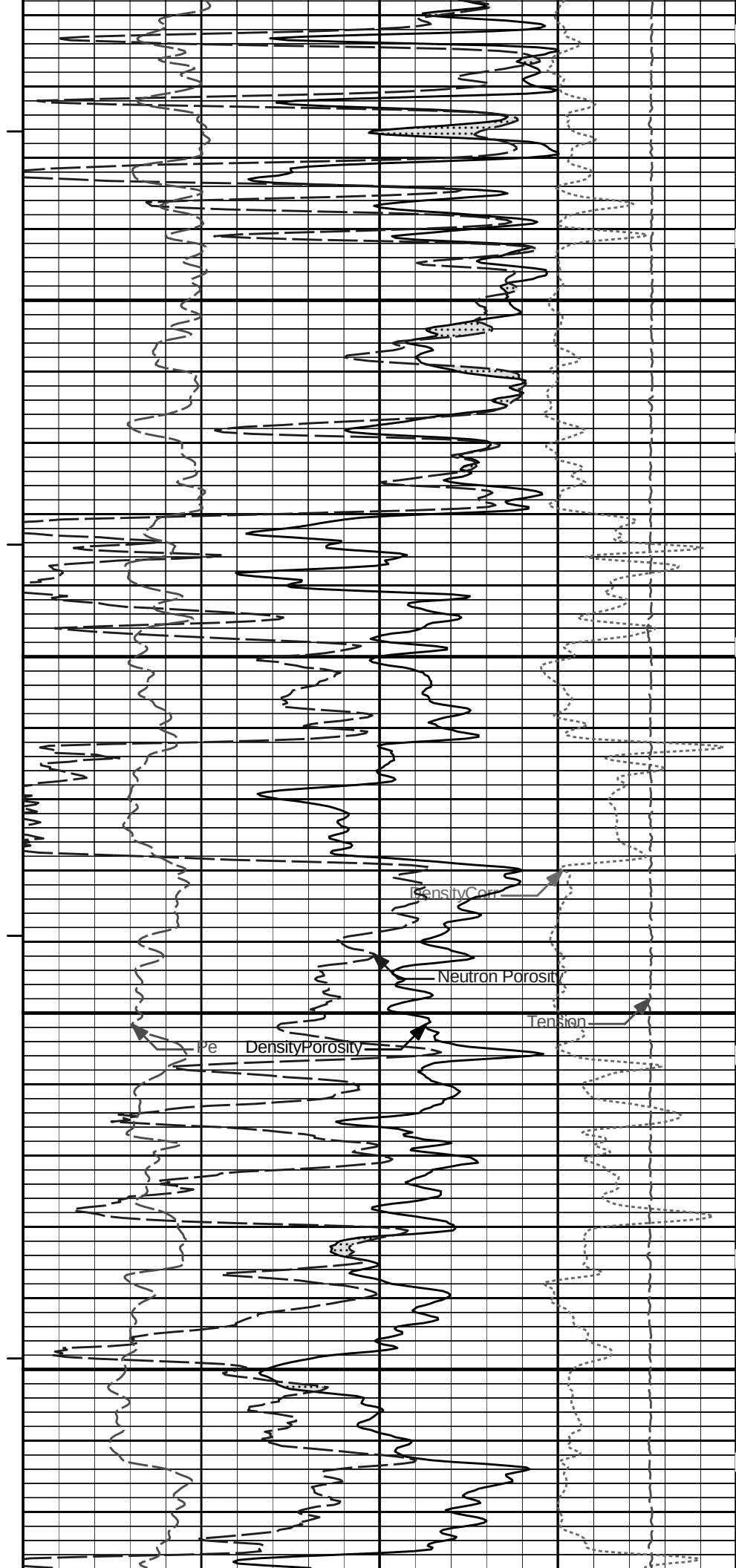
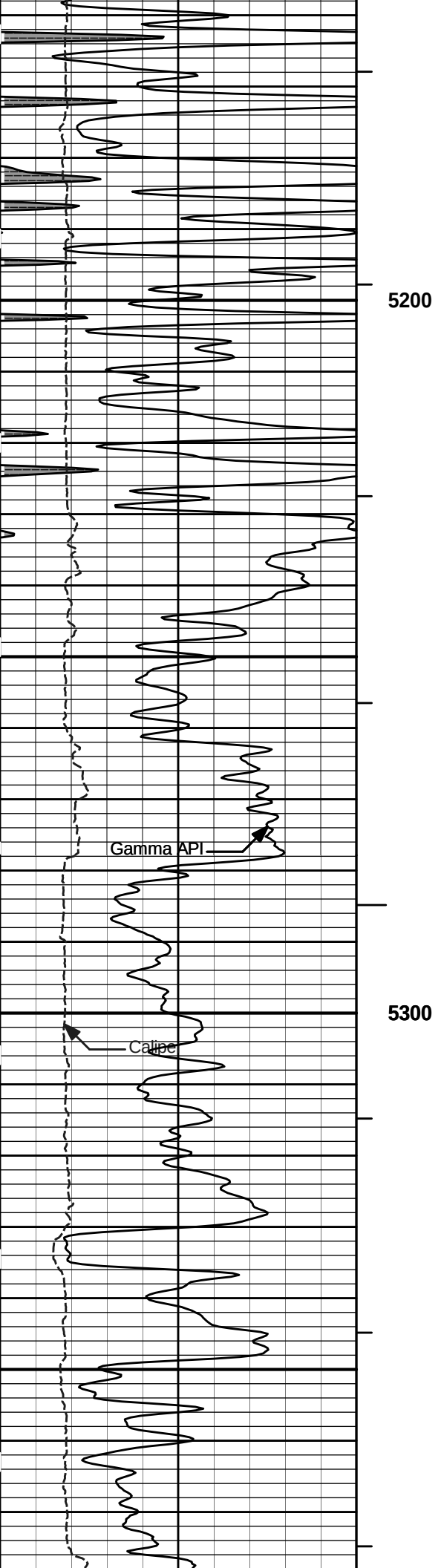


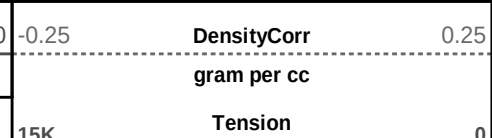
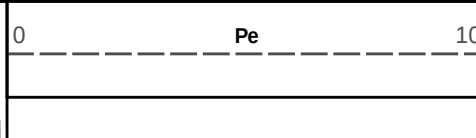
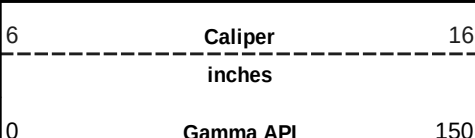
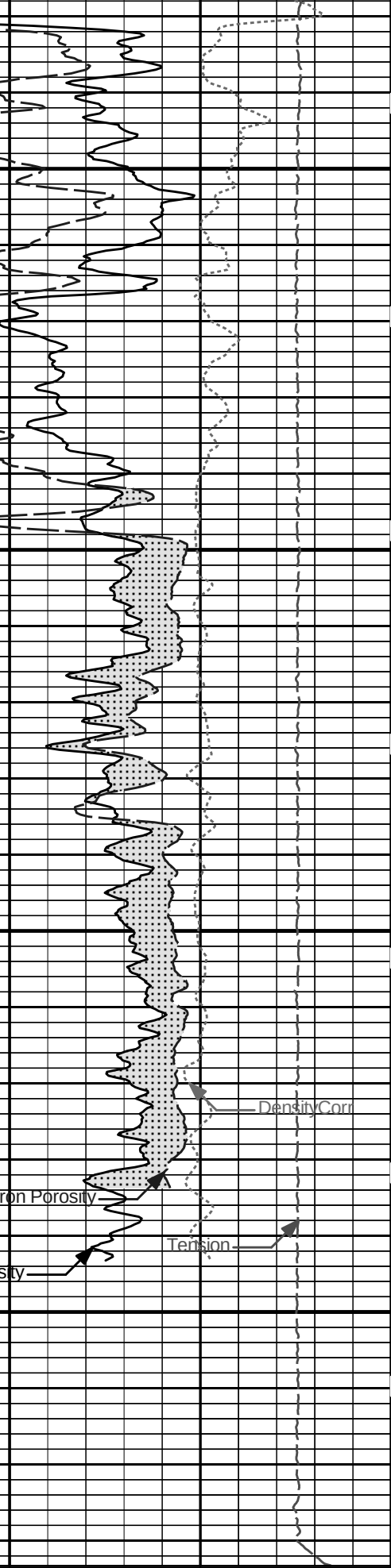
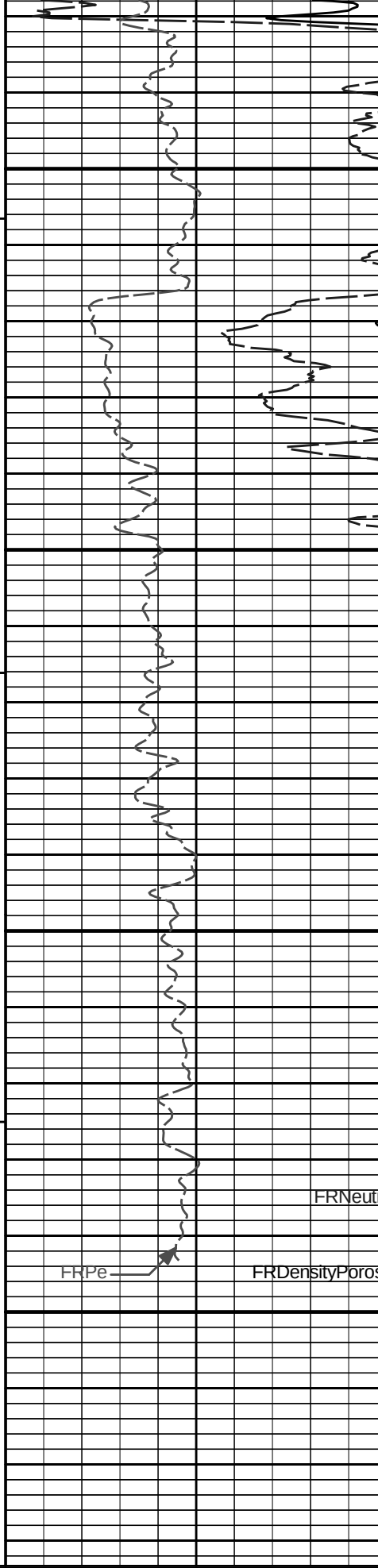
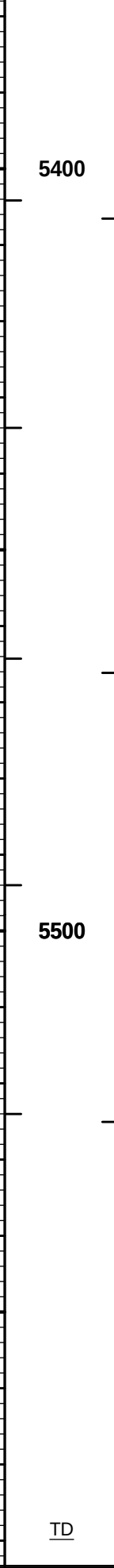












api	AHVT			pounds
SHALE 1	BHVT	30	DensityPorosity	-10
			%	
	Tension Pull 10 0	30	Neutron Porosity	-10
			%	
	Tension Pull		CROSSOVER	

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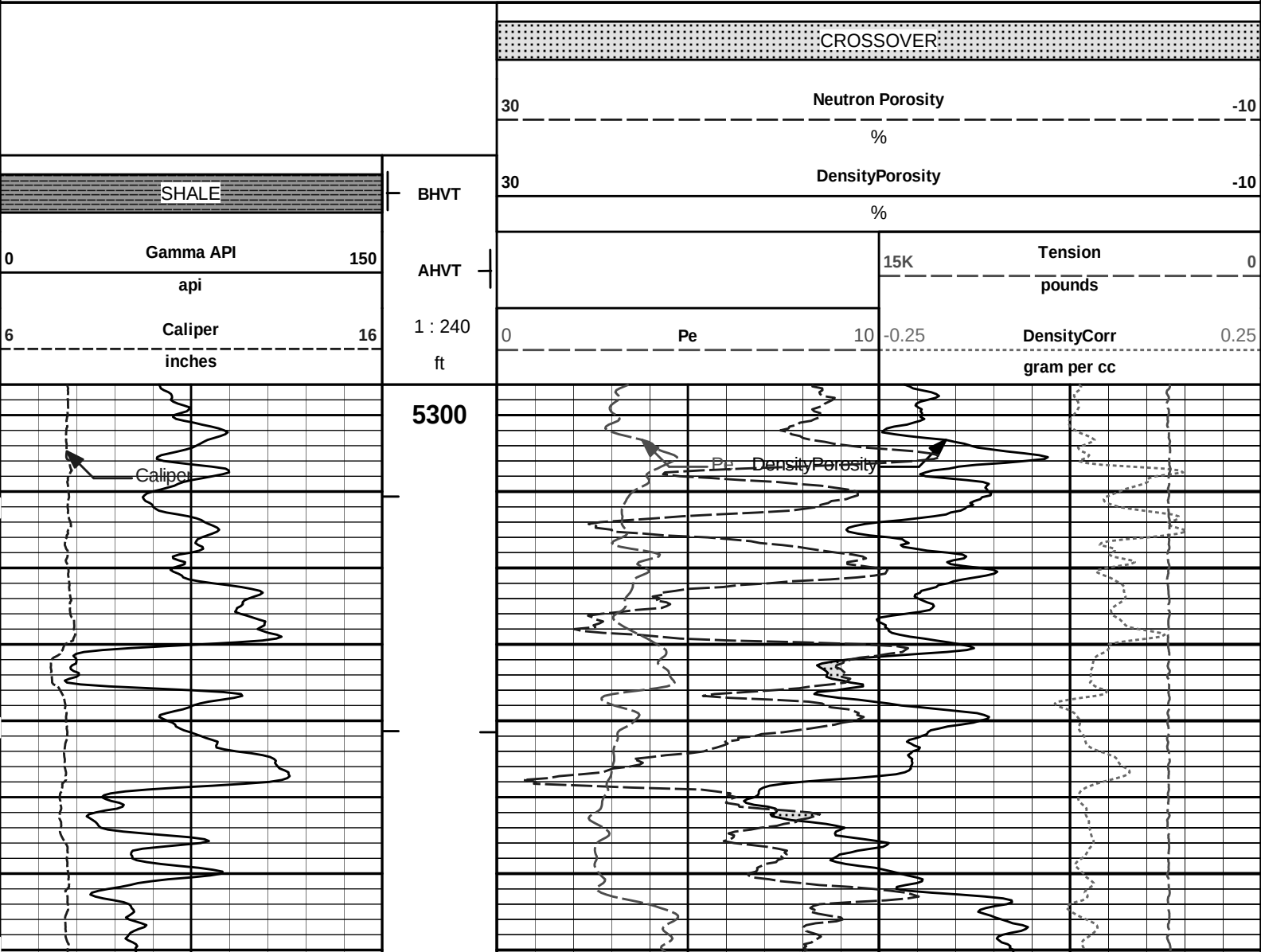
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Plot Range: 3796 ft to 5583.33 ft
Data: BLASDEL_A_3\Well Based\R1_DETAIL\
Plot File: \\PORO\Poros_IQ_5_MAIN_LIB

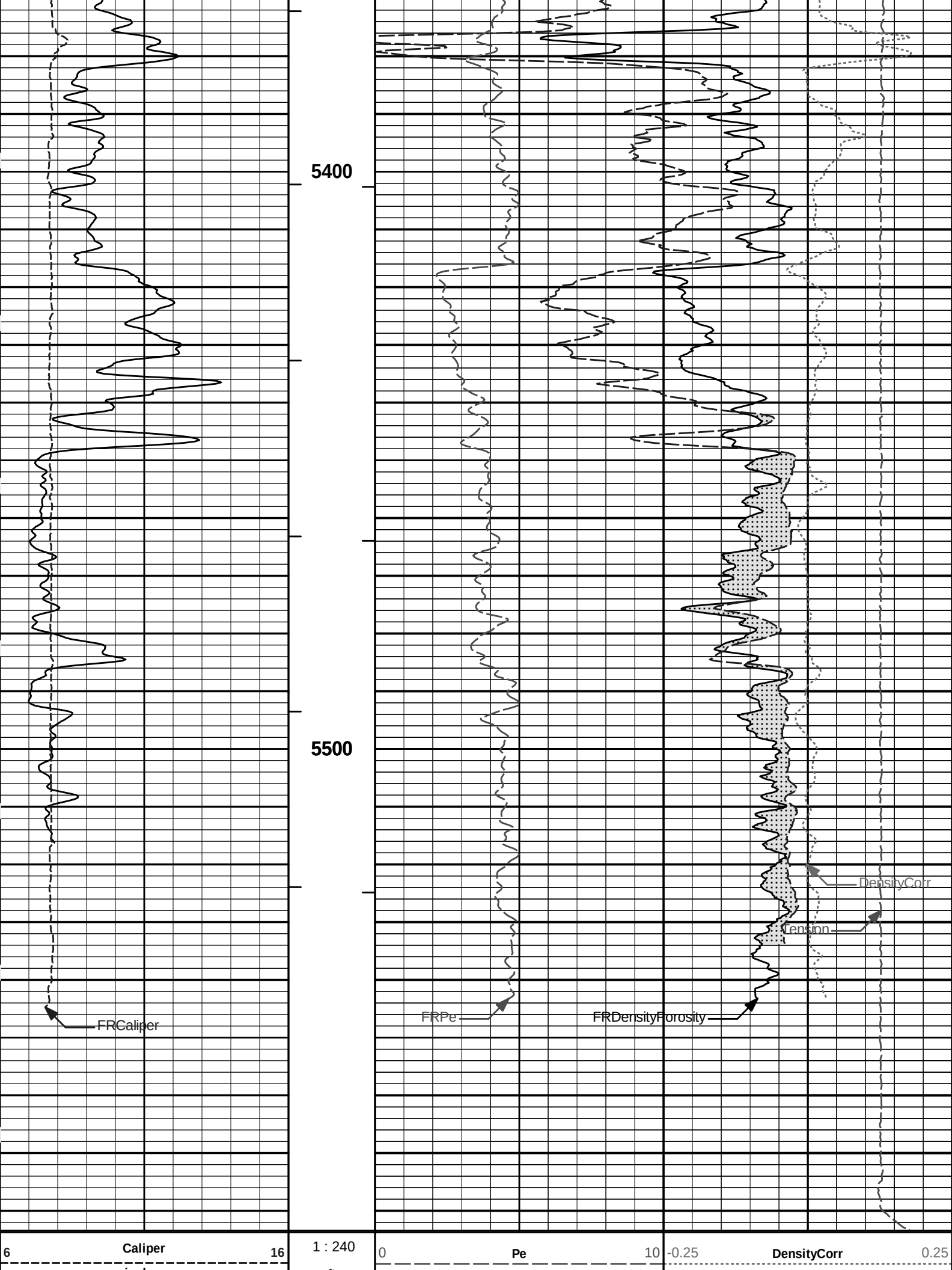
5 INCH MAIN LOG

HALLIBURTON

Plot Time: 06-May-12 07:52:13
Plot Range: 5296 ft to 5583.42 ft
Data: BLASDEL_A_3\Well Based\R1_REPEAT\
Plot File: \\PORO\Poros_IQ_5_REP_LIB

REPEAT SECTION





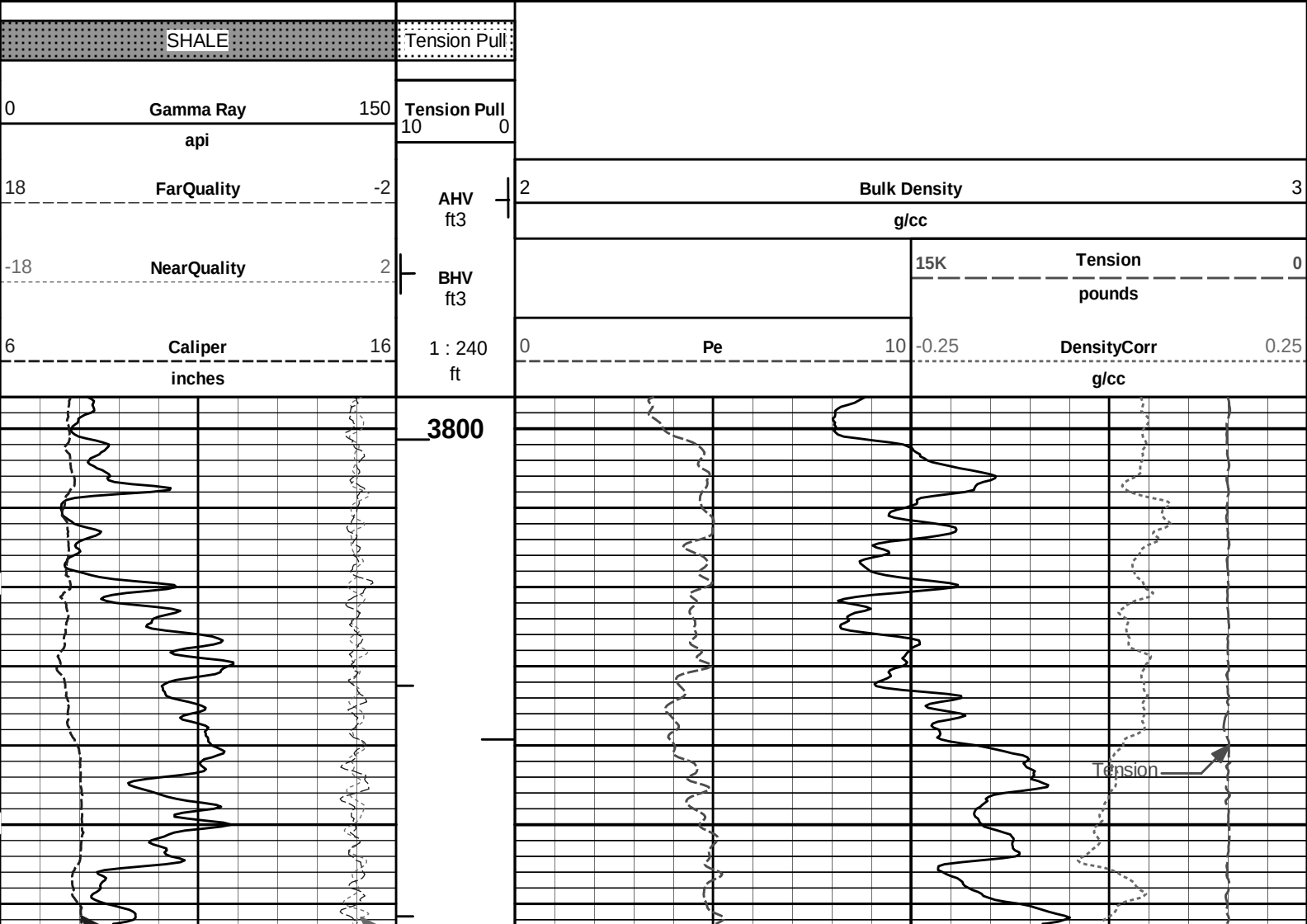
inches		ft	AHVT	gram per cc	
0	Gamma API			15K	Tension
api		150		pounds	
SHALE			BHVT	DensityPorosity	
		30		%	
		30		Neutron Porosity	
				%	
				CROSSOVER:	

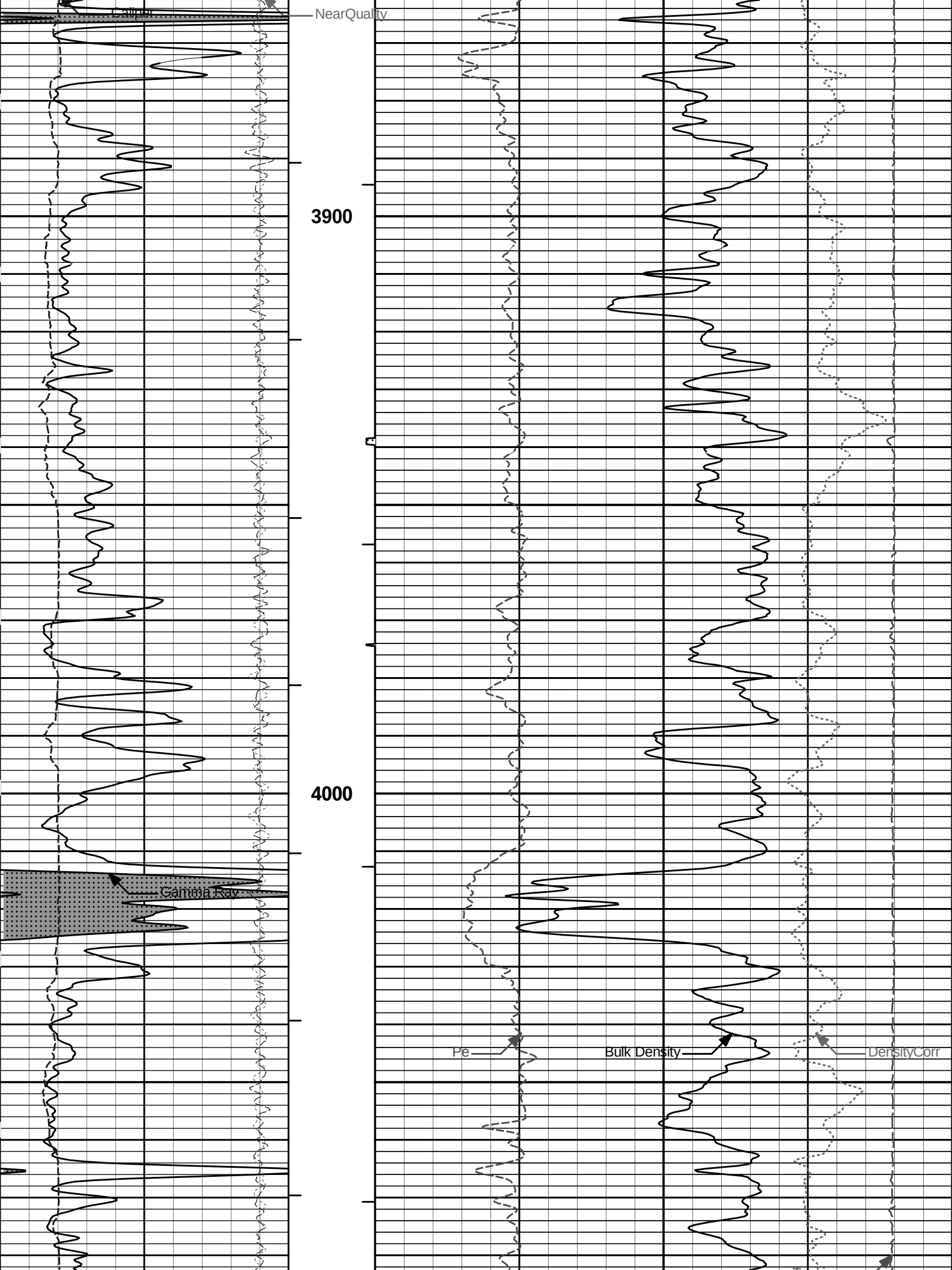
HALLIBURTON

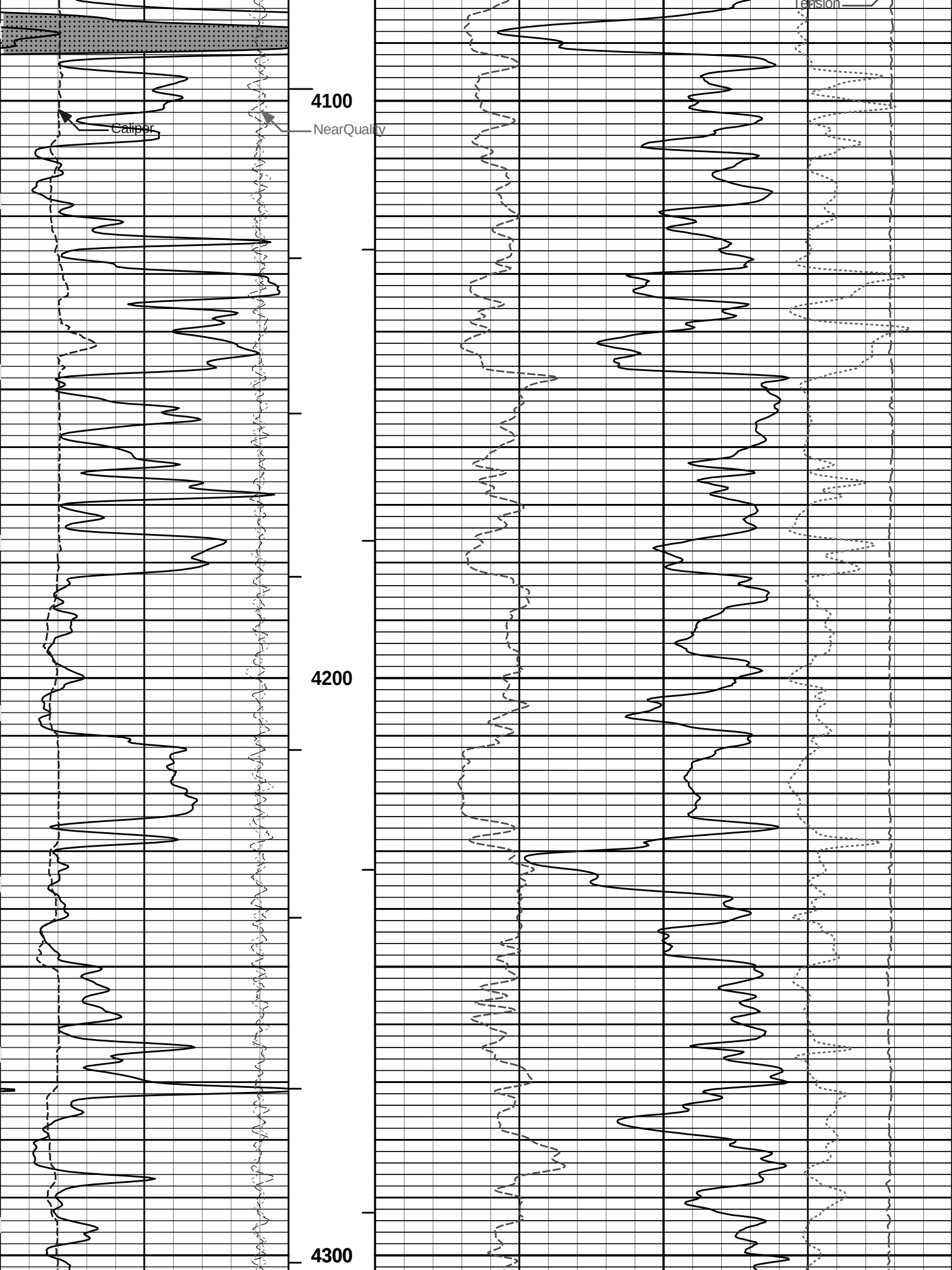
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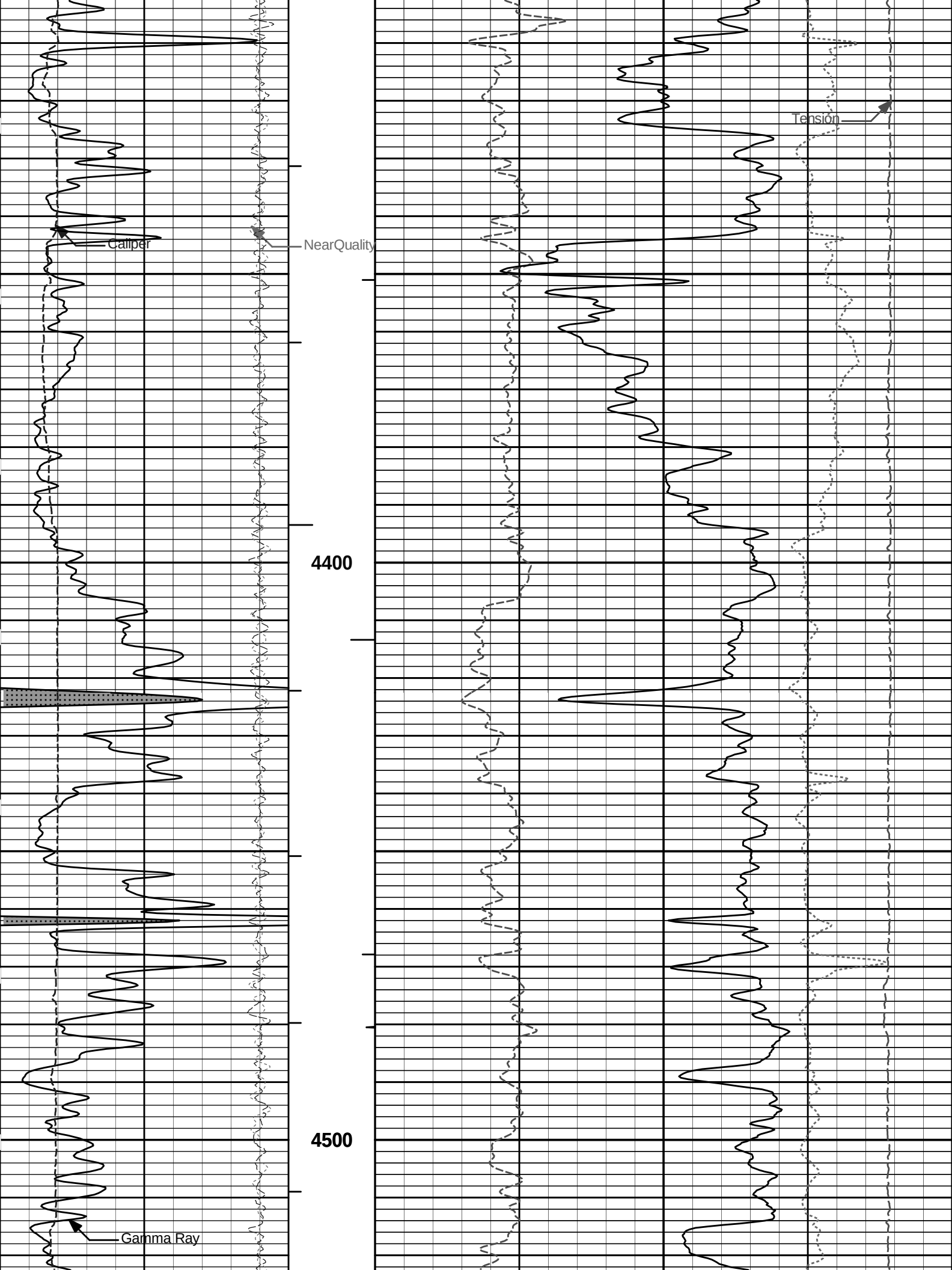
REPEAT SECTION

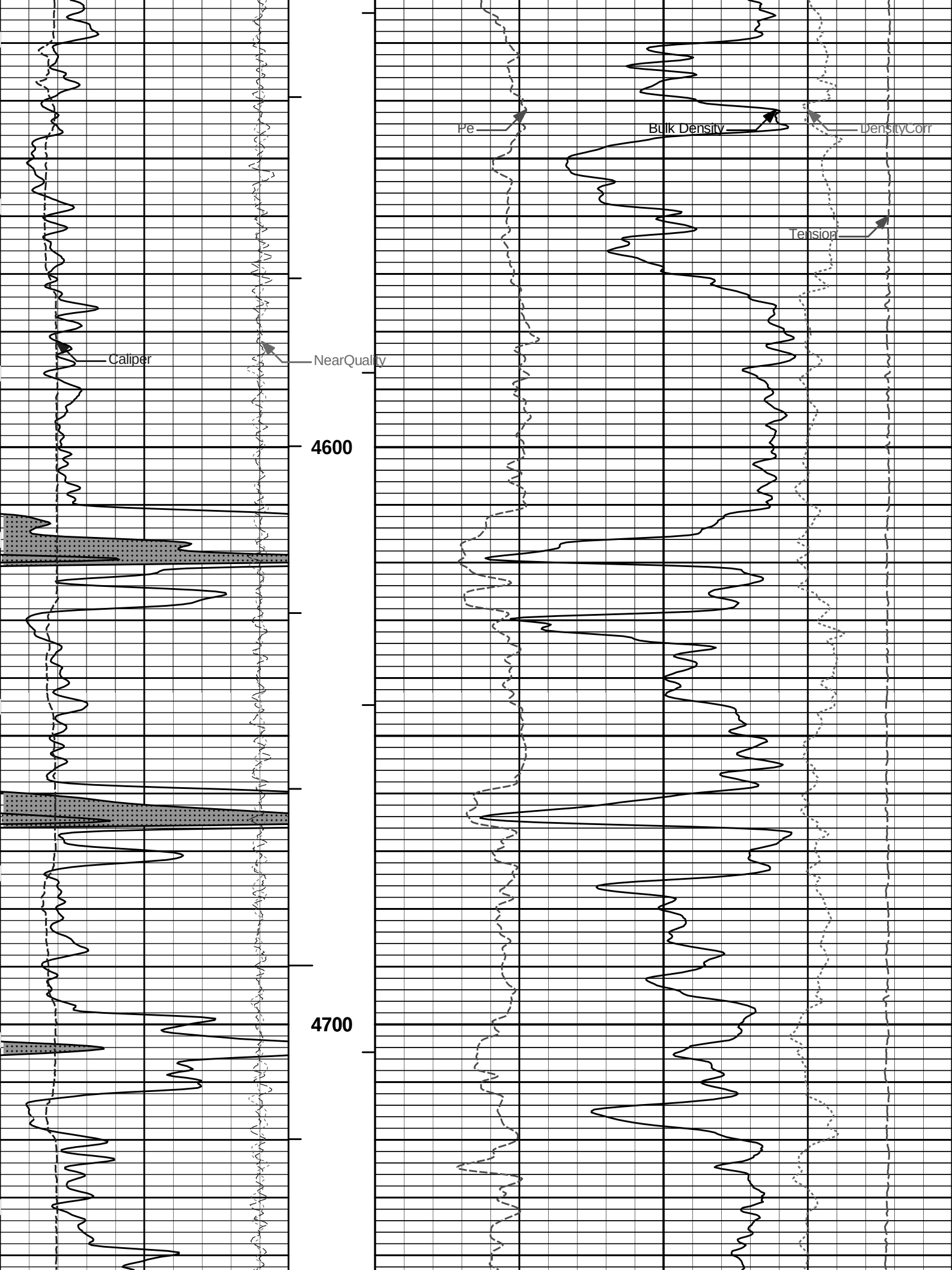
HALLIBURTON	Plot Time: 06-May-12 07:52:16 Plot Range: 3796 ft to 5583.33 ft Data: BLASDEL_A_3\Well Based\R1_DETAIL\ Plot File: \\LOCAL-BLASDEL_A_3\0001 GTET-IDT-DSNT-SDLT-BSAT-ACRT\PORO\BULKD_5_MAIN_LIB
5 INCH MAIN LOG	

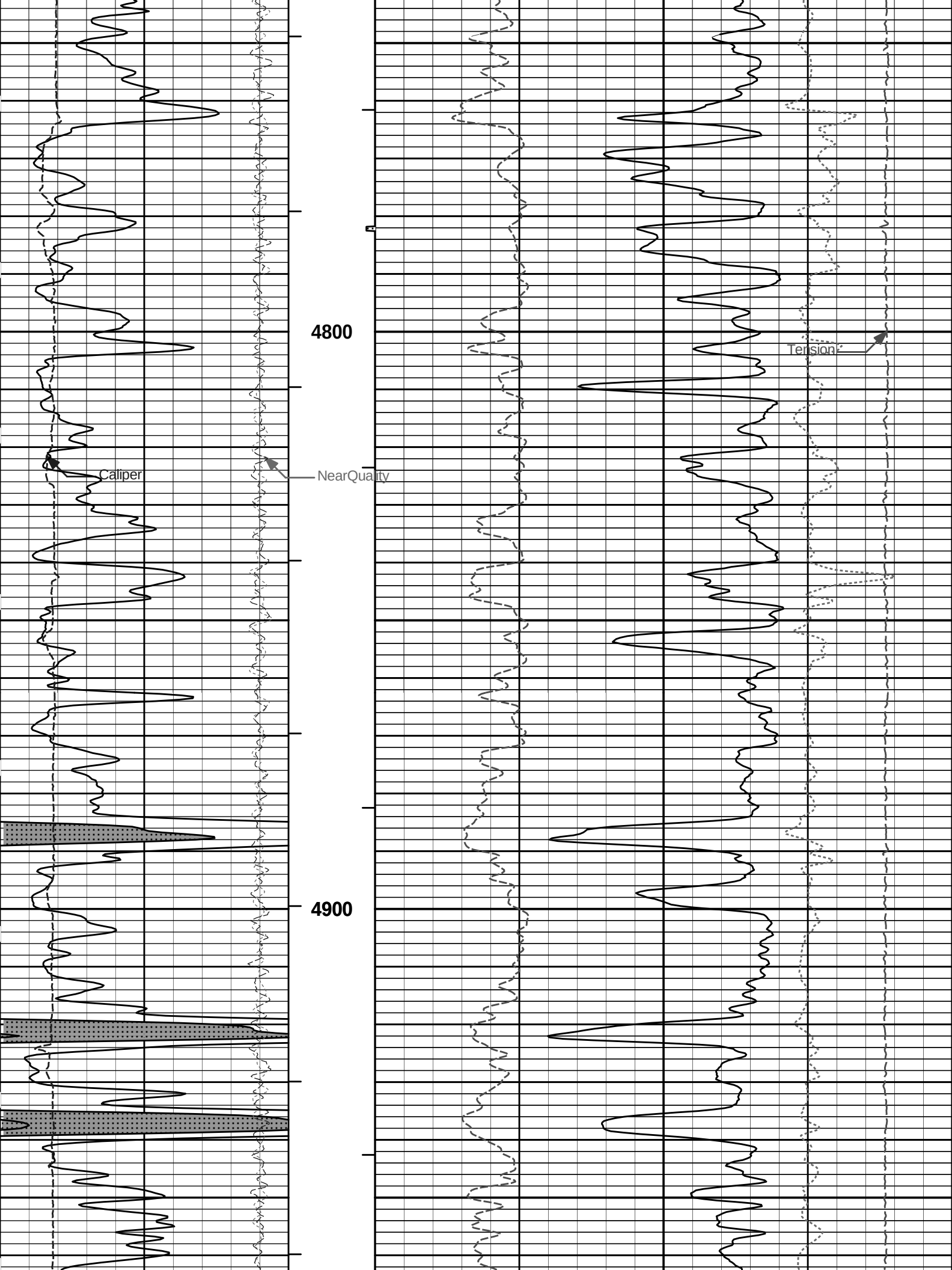


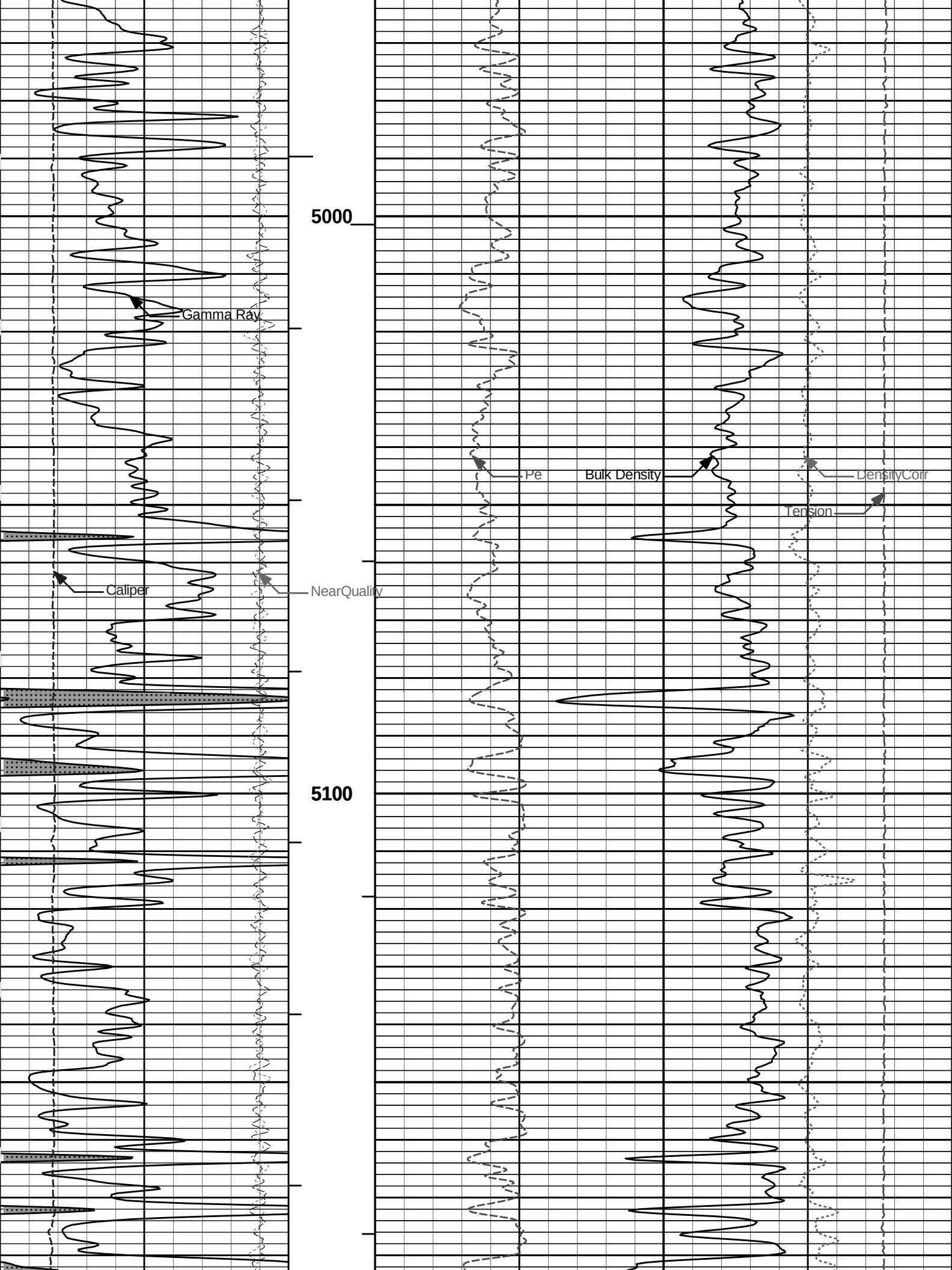


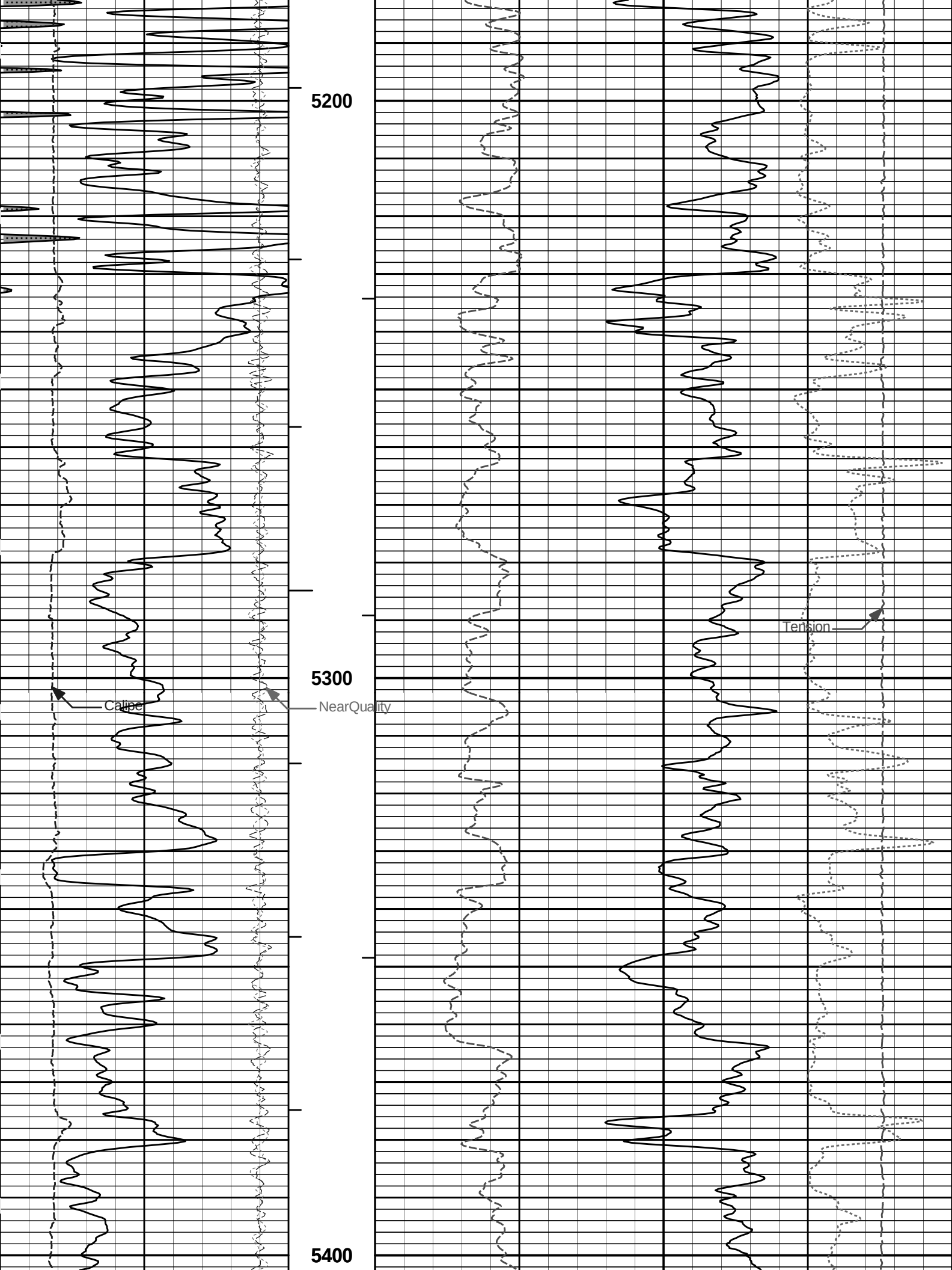


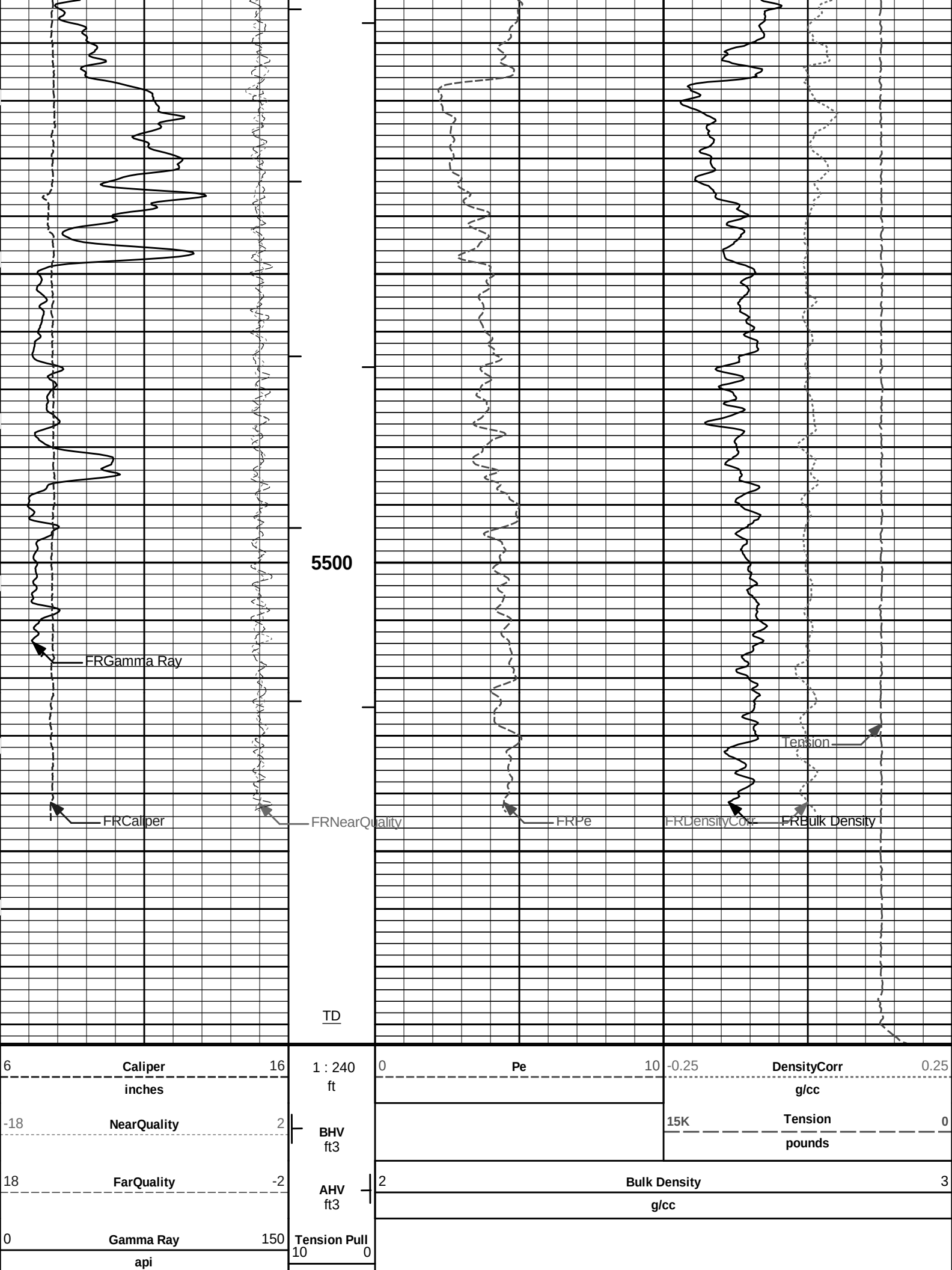












SHALE	Tension Pull
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HALLIBURTON

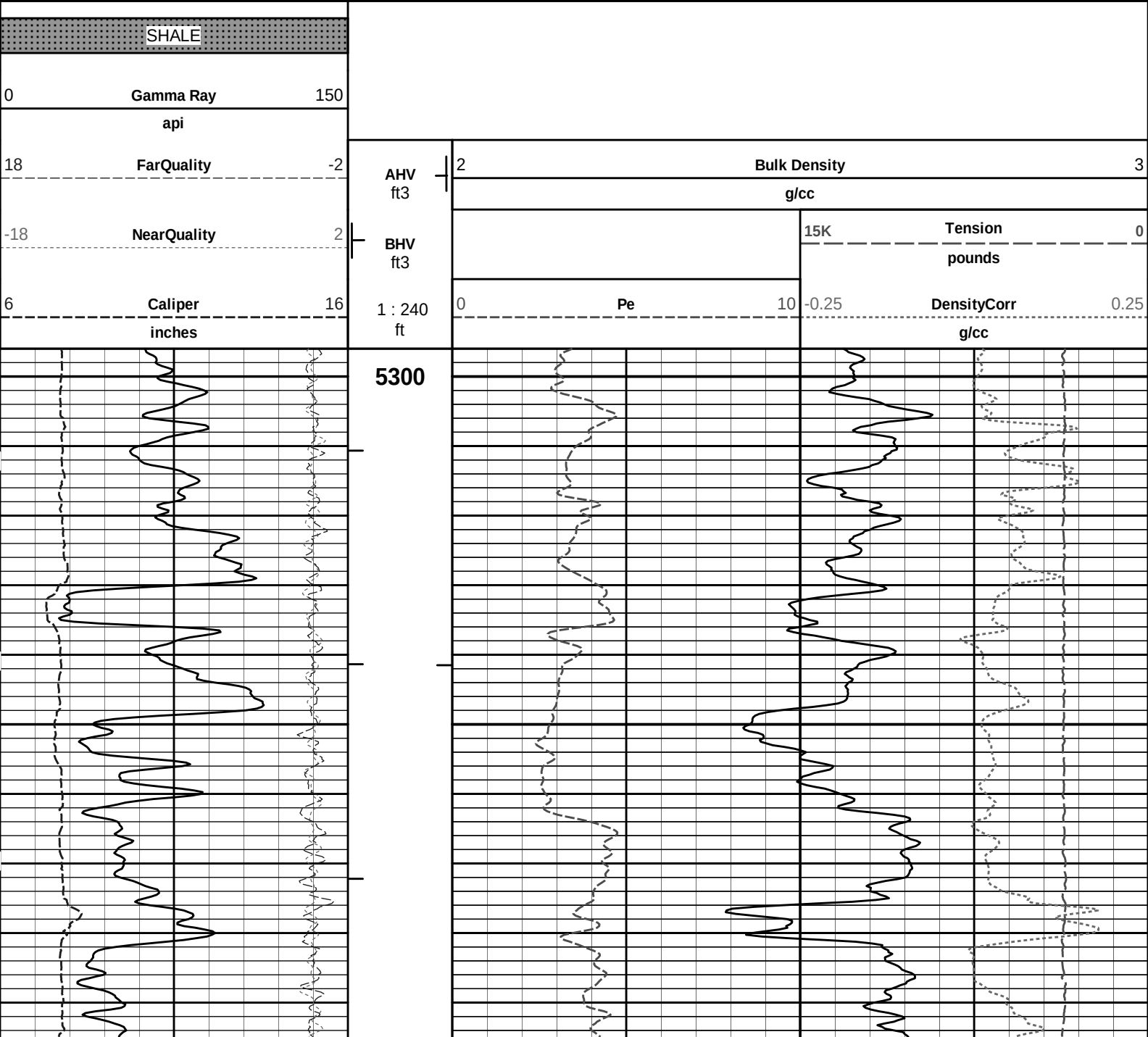
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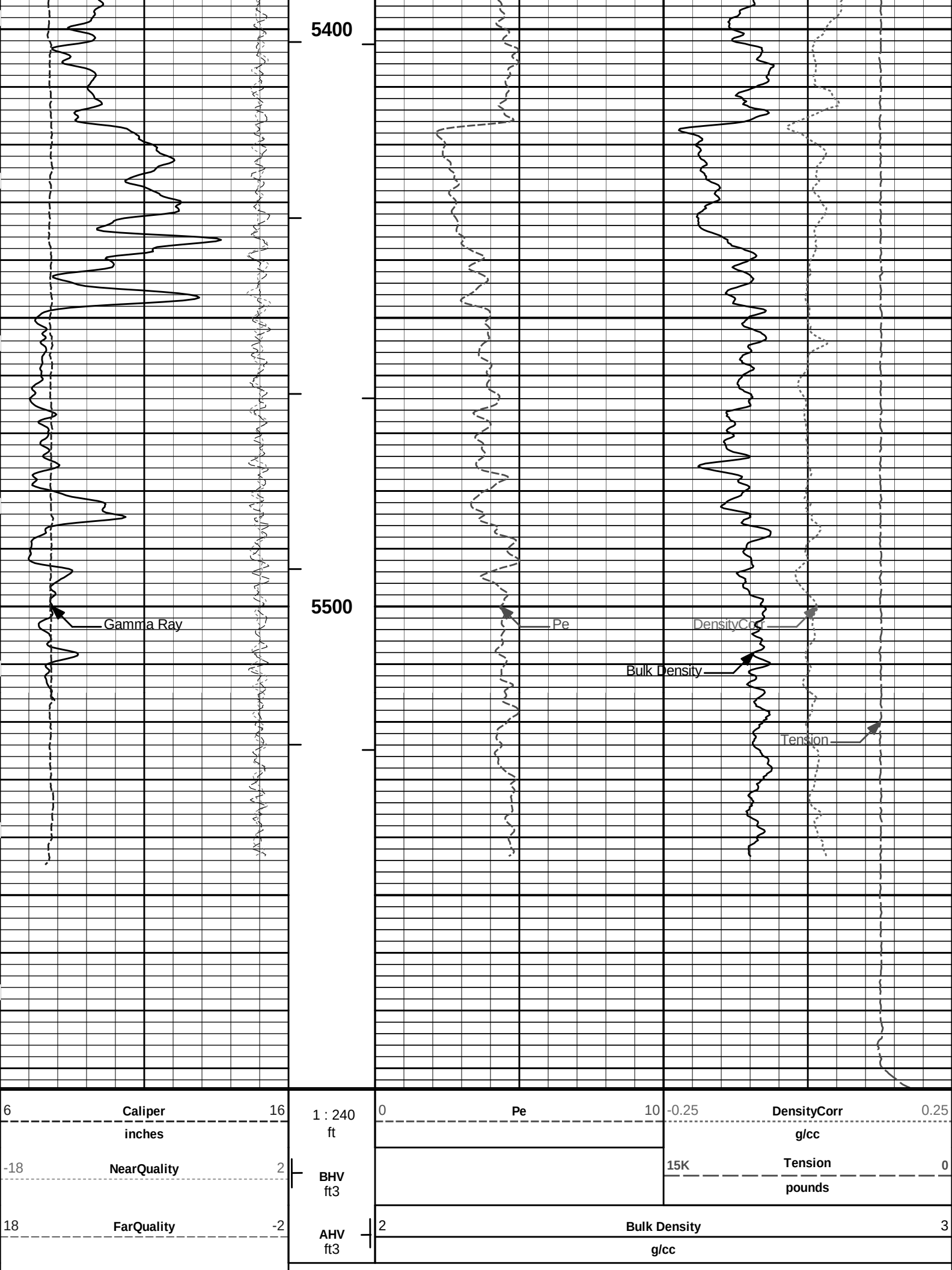
5 INCH MAIN LOG

HALLIBURTON

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REPEAT SECTION





0	Gamma Ray	150
	api	
	SHALE	

HALLIBURTON

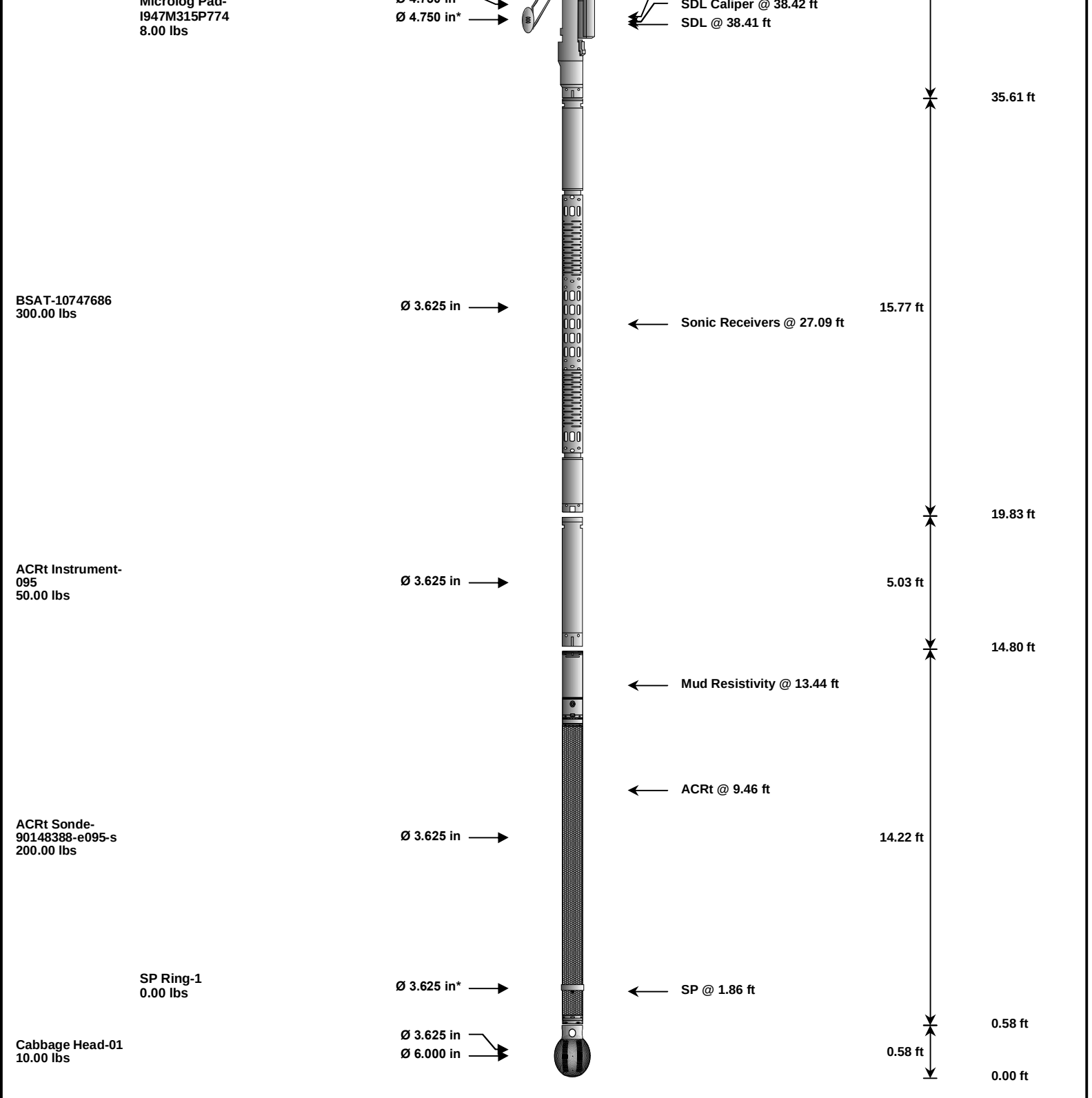
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REPEAT SECTION

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
CH_HOS-336-I 37.50 lbs		Ø 2.750 in →		← Temperature @ 74.21 ft	3.03 ft	75.24 ft
						72.21 ft
GTET-11021138 165.00 lbs		Ø 3.625 in →		← GammaRay @ 66.15 ft	8.52 ft	
						63.69 ft
IDT-11231094 150.00 lbs		Ø 3.625 in →			7.58 ft	
						56.11 ft
DSNT-11023947 174.00 lbs	DSN Decentralizer- PROT01 6.60 lbs	Ø 5.000 in* → Ø 3.625 in →		← DSN Far @ 49.17 ft ← DSN Near @ 48.42 ft	9.69 ft	
						46.42 ft
SDLT-I947M315P774 360.00 lbs	SDLT Pad-I947M315P774 65.00 lbs	Ø 4.500 in →		Microlog @ 38.61 ft	10.81 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		336-I	37.50	3.03	72.21	300.00
GTET	Gamma Telemetry Tool		11021138	165.00	8.52	63.69	60.00
IDT	Insite Directional Tool		11231094	150.00	7.58	56.11	30.00
DSNT	Dual Spaced Neutron		11023947	174.00	9.69	46.42	60.00
DCNT	DSN Decentralizer		PROT01	6.60	5.13	* 49.75	300.00
SDLT	Spectral Density Tool		I947M315P774	360.00	10.81	35.61	60.00
MICP	Microlog Pad		I947M315P774	8.00	1.00	* 38.11	60.00
SDLP	Density Insite Pad		I947M315P774	65.00	2.55	* 37.82	60.00
BSAT	Borehole Sonic Array Tool		10747686	300.00	15.77	19.83	60.00
ACRt	Array Compensated True Resistivity Instrument Section		095	50.00	5.03	14.80	300.00
ACRt	Array Compensated True Resistivity		90148388-e095-s	200.00	14.22	0.58	300.00
SP	SP Ring		1	0.00	0.25	* 1.86	300.00
CBHD	Cabbage Head		01	10.00	0.58	0.00	300.00

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:	GTET - 11021138	Reference Calibration Date:	22-Apr-12 21:06:30
Engineer:	C.HAVERKAMP	Calibration Date:	03-May-12 05:08:24
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

Calibrator Source S/N: MP051807-02
Calibrator API Reference:234.00 api
Equivalent Calibrator API Reference:238.1 api

Measurement	Measured	Calibrated	Units
Background	114.5	117.6	api
Background + Calibrator	342.4	351.6	api
Calibrator	237.1	234.0	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name:	GTET - 11021138	Reference Calibration Date:	03-May-12 05:08:24
Engineer:	C.HAVERKAMP	Calibration Date:	06-May-12 03:15:30
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

Calibrator Source S/N: MP051807-02
Calibrator API Reference:234.00 api
Equivalent Calibrator API Reference:238.1 api

Field Verification	Shop	Field	Units
Background	117.6	54.1	api
Background + Calibrator	351.6	293.2	api
Calibrator	234.0	239.1	api

Shop	Field	Difference	Tolerance
234.0	239.1	-5.1	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name:	DSNT - 11023947	Reference Calibration Date:	29-Mar-12 10:32:54
Engineer:	BOMAR	Calibration Date:	27-Apr-12 10:28:11
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

Logging Source S/N: DSN_439
Tank Serial Number: FTSM
Reference value assigned to Tank: 56.100
Snow Block S/N: 336
Calibration Tank Water Temperature: 65 degF
Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS			
Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.998	1.002	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):	0.2346	0.2358	0.0011	+/- 0.0020
Calibrated Ratio:	10.52	10.56	0.038	+/- 0.050

VERIFIER		
Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0835	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 - 11023947	Reference Calibration Date:	27-Apr-12 10:28:11
Engineer:	C.HAVERKAMP	Calibration Date:	06-May-12 03:31:36
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

Logging Source S/N: DSN_439
Snow Block S/N: 336

NEUTRON FIELD-CHECK SUMMARY				
	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0835	0.0696	-0.0140	+/- 0.0150

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

DENSITY CALIPER SHOP CALIBRATION			
Tool Name:	SDLT - I947M315P774	Reference Calibration Date:	22-Apr-12 22:04:02
Engineer:	BOMAR	Calibration Date:	22-Apr-12 22:09:21
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	-1841.81	-1782.38	-7000.00 - -1000.00
Pad Gain	0.0003752	0.0003738	0.000200 - 0.000600
Arm Offset	-801.46	-810.35	-5000.00 - 3000.00
Arm Gain	0.0005124	0.0005071	0.000300 - 0.000700
Arm Power	-0.000004895	-0.000004564	-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)	1.99	2.00	0.01	+/- 0.20
Medium Ring (in)	3.74	3.75	0.01	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.50	6.50	0.00	+/- 0.20

Small Ring (in)	8.26	8.25	-0.01	+/- 0.20
Medium 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 - I947M315P774	Reference Calibration Date:	22-Apr-12 22:09:21
Engineer:	C.HAVERKAMP	Calibration Date:	06-May-12 03:36:58
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	3.83	0.08	+/- 0.10
Ring Diameter	8.25	8.35	0.10	+/- 0.15

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

SPECTRAL DENSITY SHOP CALIBRATION			
Tool Name:	SDLT Pad - I947M315P774	Reference Calibration Date:	22-Apr-12 21:22:42
Engineer:	BOMAR	Calibration Date:	22-Apr-12 21:41:22
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

Logging Source S/N: 5155GW			
Aluminum Block S/N: FTSM	Density: 2.581g/cc		Pe: 3.170
Magnesium Block S/N: FTSM	Density: 1.687g/cc		Pe: 2.594

DENSITY CALIBRATION SUMMARY			
Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0272	1.0694	0.90 - 1.10
Near Dens Gain	1.0112	1.0392	0.90 - 1.10
Near Peak Gain	1.0148	1.0759	0.90 - 1.10
Near Lith Gain	1.0312	1.0696	0.90 - 1.10
Far Bar Gain	1.0071	1.0141	0.90 - 1.10
Far Dens Gain	0.9946	1.0004	0.90 - 1.10
Far Peak Gain	0.9935	0.9968	0.90 - 1.10
Far Lith Gain	0.9769	0.9832	0.90 - 1.10
Near Bar Offset	-0.0345	-0.4249	NONE
Near Dens Offset	0.1079	-0.1425	NONE
Near Peak Offset	0.0659	-0.4461	NONE
Near Lith Offset	-0.0848	-0.4076	NONE
Far Bar Offset	0.0469	-0.0184	NONE
Far Dens Offset	0.1515	0.0965	NONE
Far Peak Offset	0.1480	0.1189	NONE
Far Lith Offset	0.2684	0.2153	NONE
Near Bar Background	965.72	965.05	700 - 1450
Near Dens Background	217.26	216.79	200 - 400

Near Dens Background	317.86	316.79	230 - 480
Near Peak Background	139.53	138.63	100 - 210
Near Lith Background	167.79	170.51	125 - 260
Far Bar Background	522.89	523.46	450 - 900
Far Dens Background	204.89	202.03	175 - 345
Far Peak Background	80.59	80.91	70 - 140
Far Lith Background	84.14	83.68	75 - 145

CALIBRATION BLOCK SUMMARY				
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.687	1.687	0.000	+/- 0.015
Pe	2.553	2.553	0.000	+/- 0.150
ALUMINUM				
Density (g/cc)	2.580	2.581	0.001	+/- 0.01500
Pe	3.117	3.125	0.008	+/- 0.150

TOOL SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	0.0005	+/- 0.0110	0.0001	+/- 0.0140
Magnesium Block	0.0001	+/- 0.0110	0.0009	+/- 0.0140
Aluminum Block	0.0004	+/- 0.0110	0.0008	+/- 0.0140
Resolution	9.34	6.00 - 11.50	9.11	6.00 - 11.50
Internal Verifier(B+D+P+L)	1591	1200 - 2700	890	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 - I947M315P774	Reference Calibration Date:	22-Apr-12 21:41:22
Engineer:	C.HAVERKAMP	Calibration Date:	06-May-12 03:28:42
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

Pad Temperature: 73.6 degF

DENSITY FIELD CALIBRATION SUMMARY				
Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1590.987	1595.453	4.466	16.042
Far (B+D+P+L) cps	890.080	902.735	12.655	16.251
Near Resolution	9.34	9.54	0.200	0.50
Far Resolution	9.11	9.51	0.400	1.00

PASS/FAIL SUMMARY	
-------------------	--

Bkg Quality Check:				Passed		
Bkg Resolution Check:				Passed		
Bkg Verification Check:				Passed		
CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11021138						
Gamma Ray Calibrator	234.0	239.1	-----	-5.1	+/- 9.00	api
DSNT-11023947						
Snow-Block Porosity	0.0835	0.0696	-----	0.0139	+/- 0.0150	decp
SDLT-I947M315P774						
Pad Extension	3.75	3.83	-----	-0.08	+/-0.10	in
Ring Diameter	8.25	8.35	-----	-0.100	+/-0.15	in
SDLT Pad-I947M315P774						
Near(B+D+P+L)	1590.987	1595.453	-----	-4.466	+/-16.042	cps
Far(B+D+P+L)	890.080	902.735	-----	-12.655	+/-16.251	cps
Data: BLASDEL A 310001 GTET-IDT-DSNT-SDLT-BSAT-ACRTIDLE						
Date: 06-May-12 03:49:23						
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	9.200	ppg	
	SHARED	WAGT	Weighting Agent	Natural		
	SHARED	BSAL	Borehole salinity	1500.00	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	5611.00	ft	
	SHARED	BHT	Bottom Hole Temperature	130.0	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	
IDT	WRTI	Survey Writing Interval	30	ft
IDT	SOPT	Smoothing Option	None	
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	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: BLASDEL_A_3I0001 GTET-IDT-DSNT-SDLT-BSAT-ACRT\IDLE

Date: 06-May-12 03:47:40

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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
GTET				
TPUL	Tension Pull	66.15	NO	
GR	Natural Gamma Ray API	66.15	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	66.15	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	66.15	W	1.416 , 0.750
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	
IDT				
TPUL	Tension Pull	57.10	NO	
ACCX	Accelerometer X	57.10	NO	
ACCY	Accelerometer Y	57.10	NO	
ACCZ	Accelerometer Z	57.10	NO	
MAGX	magnetometer x with unit	57.10	NO	
MAGY	Magnetometer Y with unit	57.10	NO	
MAGZ	magnetometer z with unit	57.10	NO	
IAMP	Accelerometer Temperature	57.10	NO	
MTMP	Magnetometer Temperature	57.10	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	
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	
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

SP Ring				
PLTC	Plot Control Mask	1.86	NO	
SP	Spontaneous Potential	1.86	BLK	1.250
SPR	Raw Spontaneous Potential	1.86	NO	
SPO	Spontaneous Potential Offset	1.86	NO	

Data: BLASDEL_A_3\0001 GTET-IDT-DSNT-SDLT-BSAT-ACRT\IDLE

Date: 06-May-12 03:47:49

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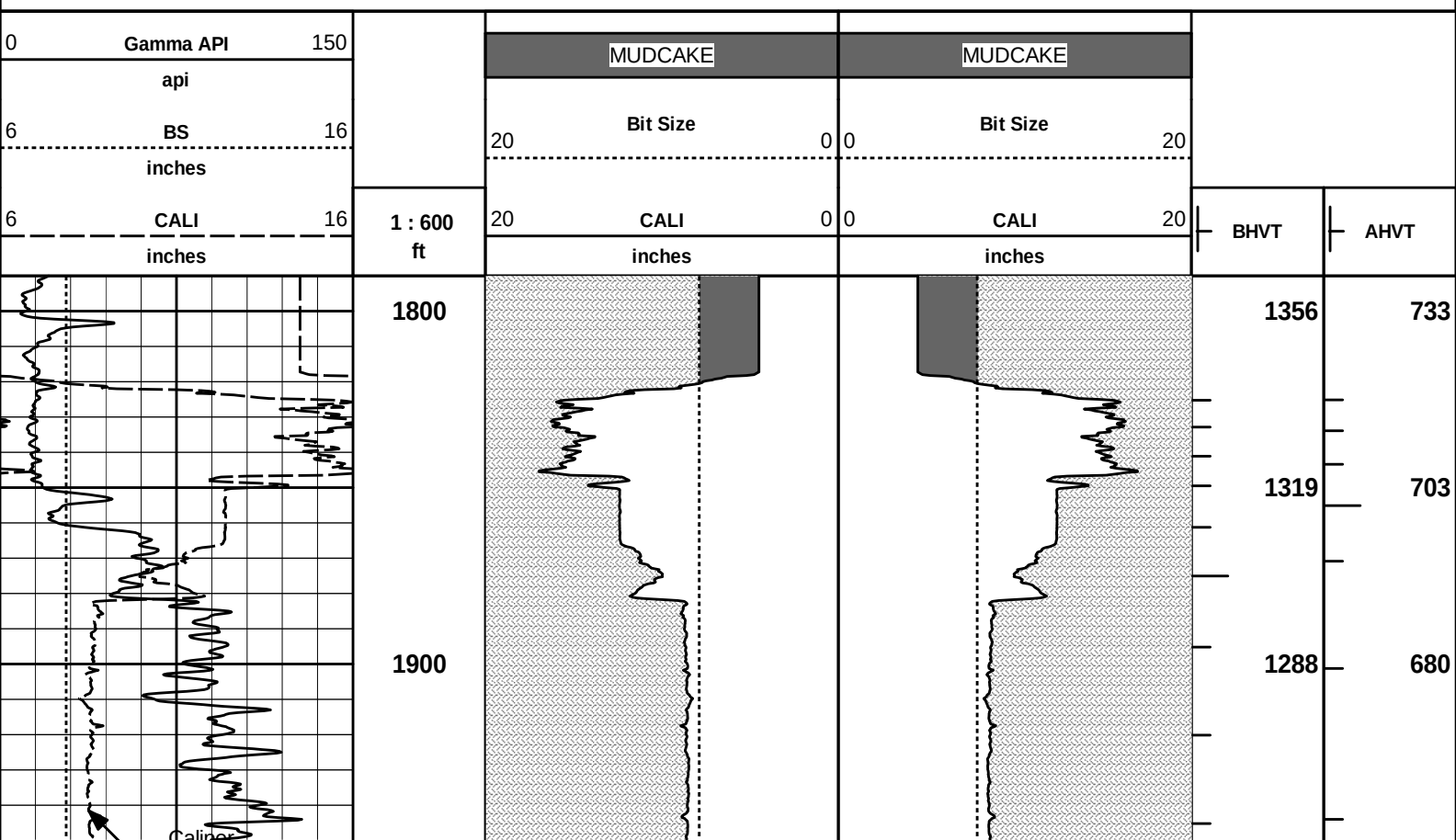
Plot Time: 06-May-12 07:52:20

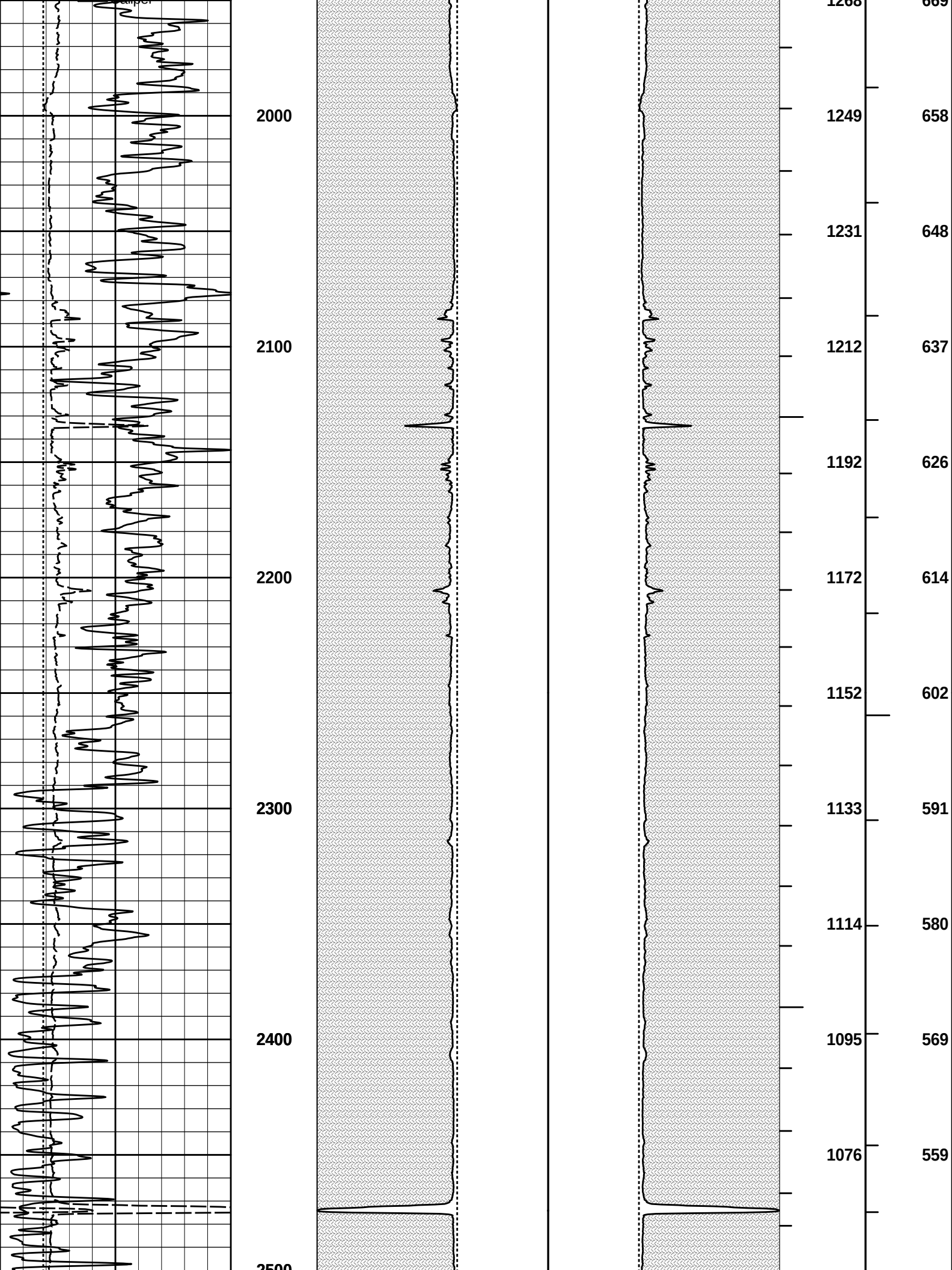
Plot Range: 1790 ft to 5583.33 ft

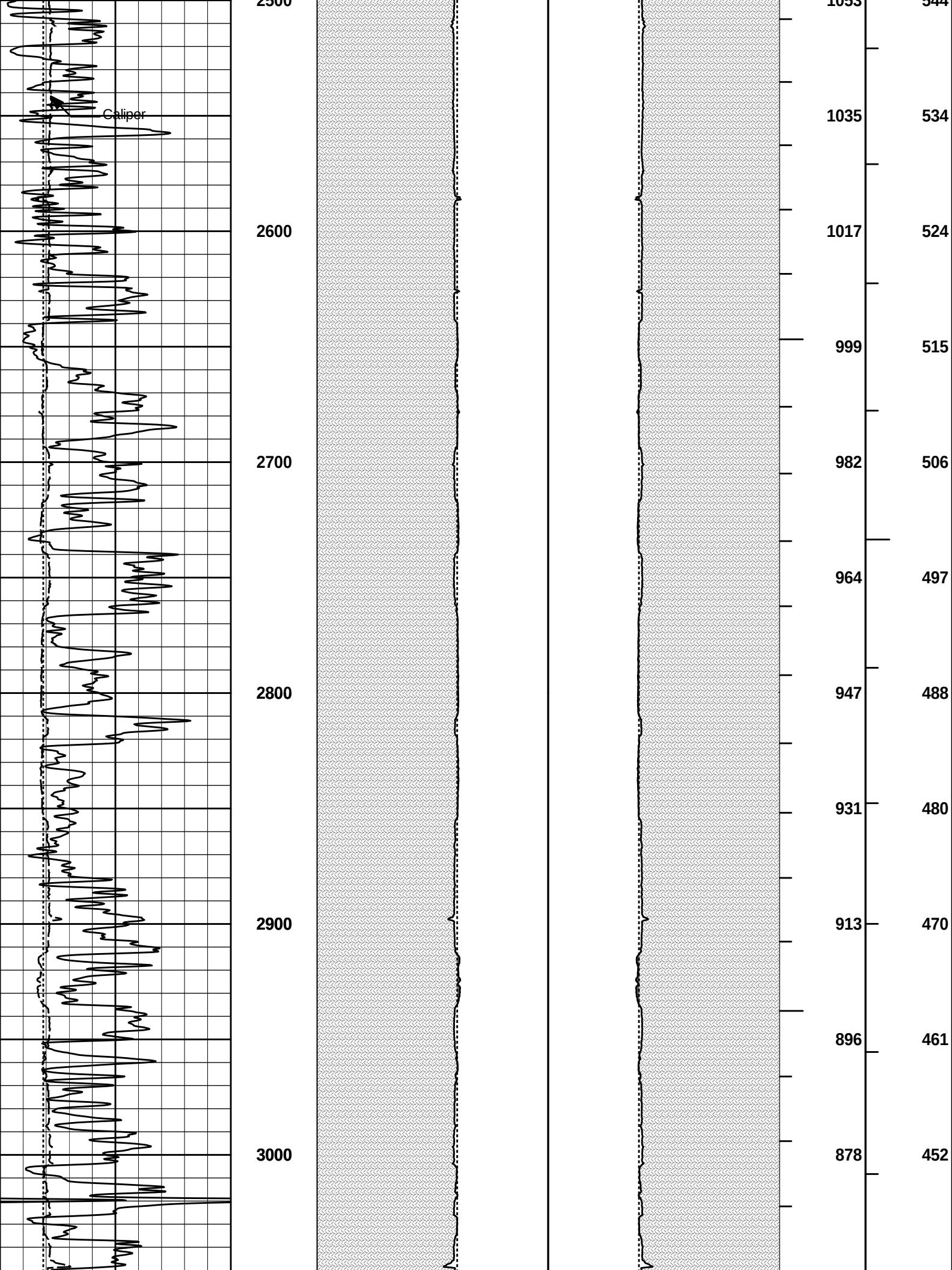
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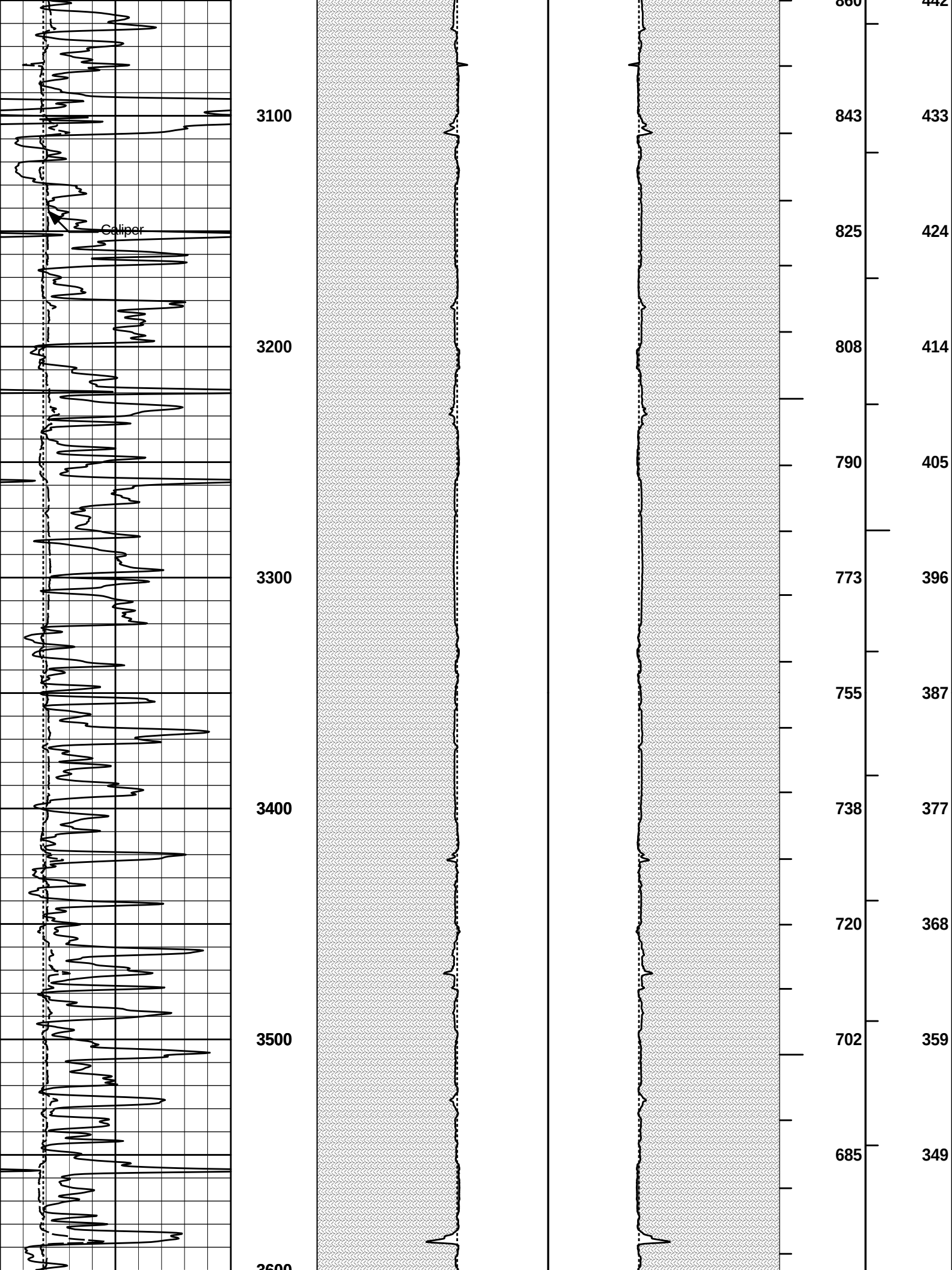
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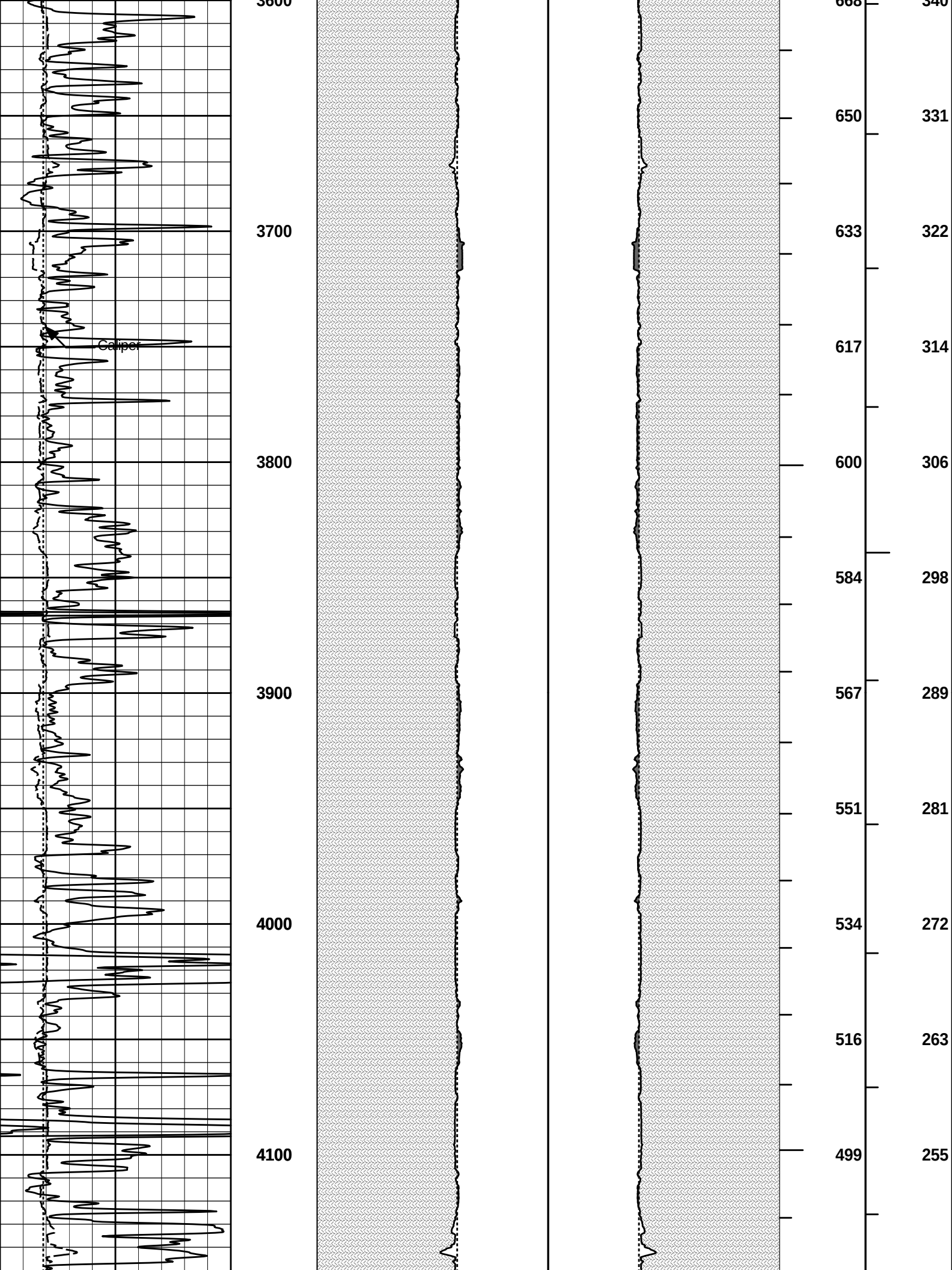
ANNULAR HOLE VOLUME PLOT (5.5 INCH)

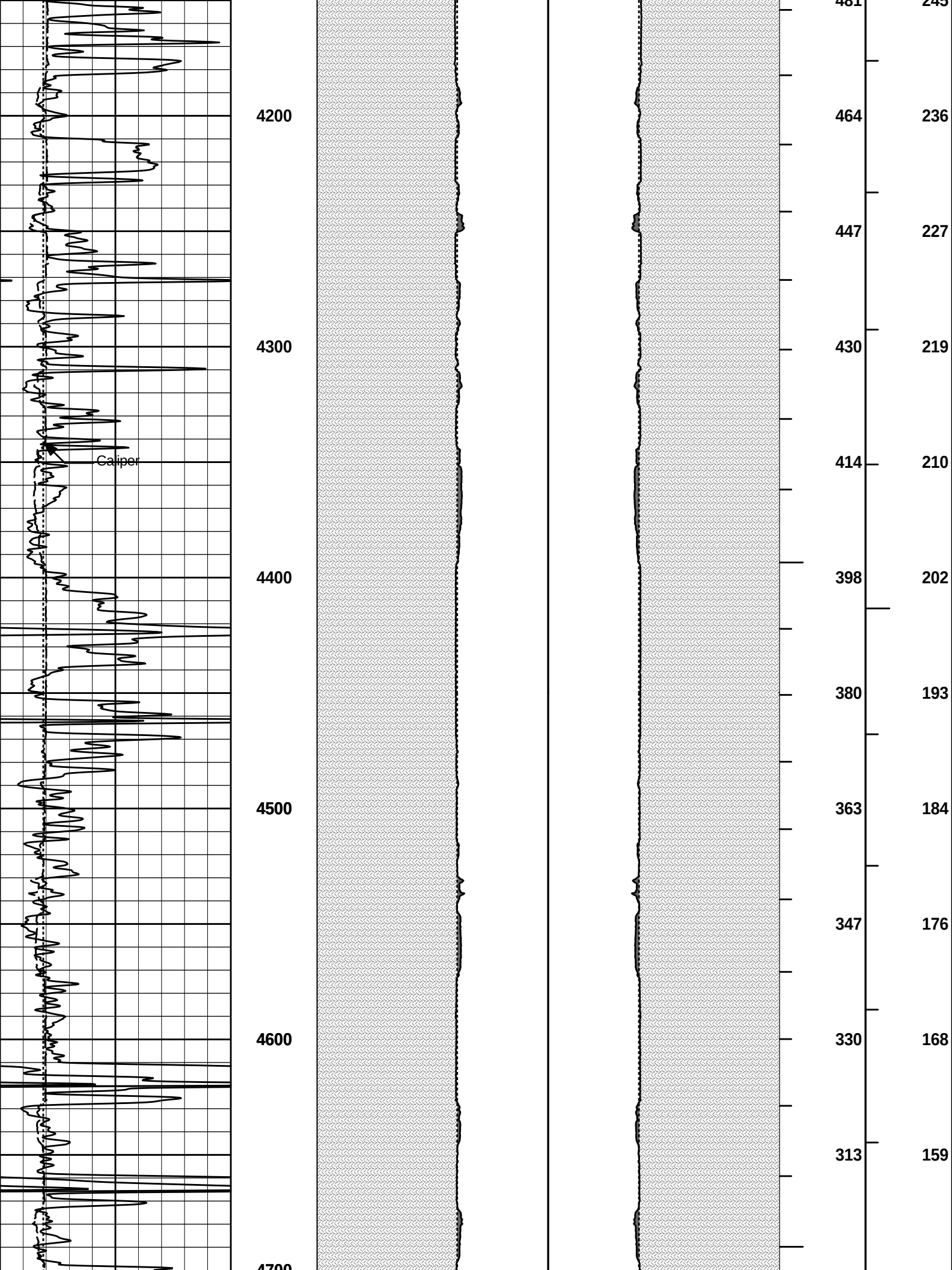


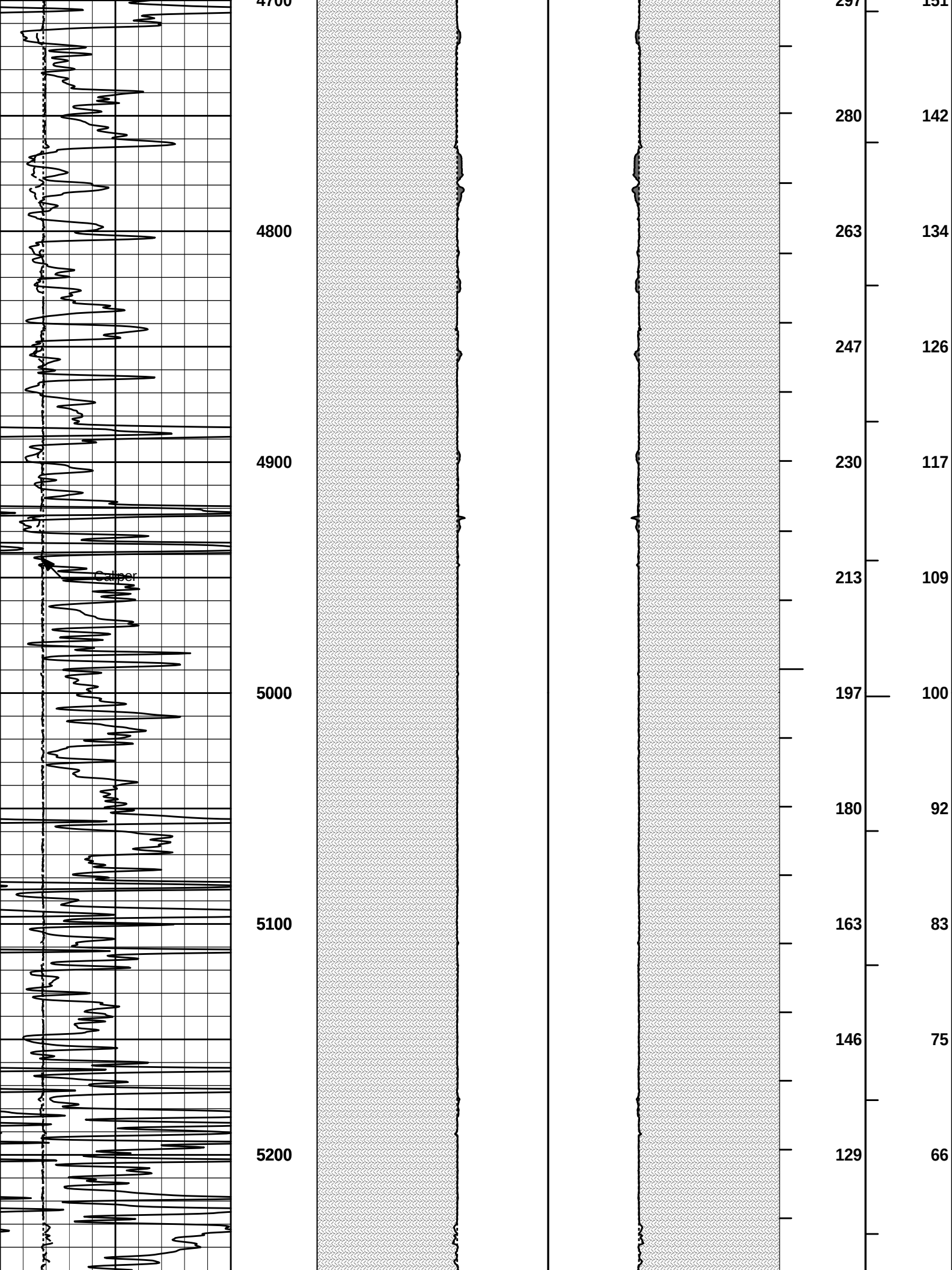


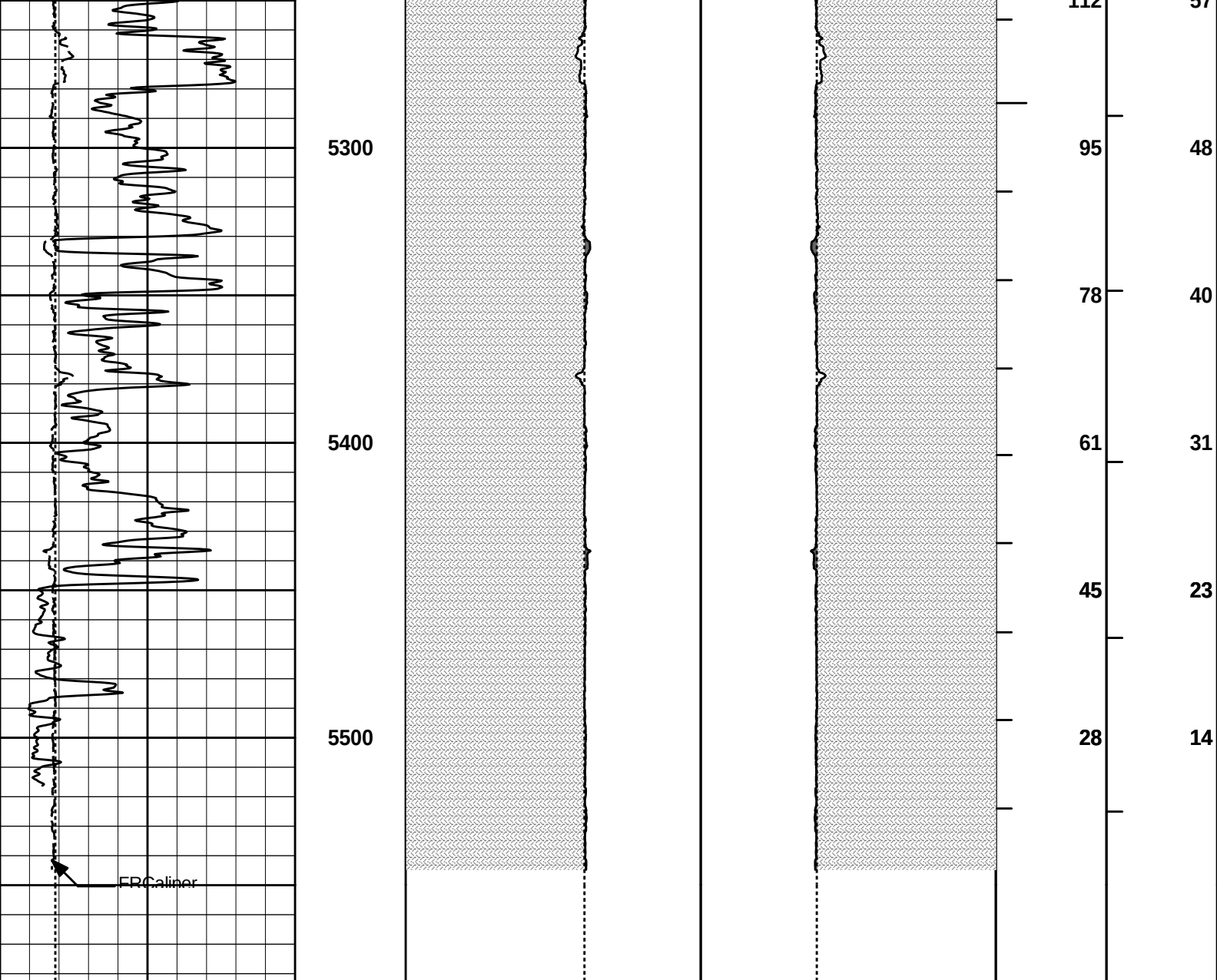












6	CALI	16	1 : 600 ft	20	CALI	0 0	20	BHVT	AHVT
	inches				inches				
6	BS	16		20	Bit Size	0 0	20		
	inches								
0	Gamma API	150			MUDCAKE		MUDCAKE		
	api								

HALLIBURTON

Plot Time: 06-May-12 07:52:29

Plot Range: 1790 ft to 5583.33 ft

Data: BLASDEL_A_3\Well Based\IR1_CASING\

Plot File: \\-LOCAL-\\BLASDEL_A_3\0001 GTET-IDT-DSNT-SDLT-BSAT-ACRT\PORO\AHV_5_5_INCH_2_IQ_LIB

ANNULAR HOLE VOLUME PLOT (5.5 INCH)

COMPANY	OXY USA, INC.
WELL	BLASDEL A-3
FIELD	LEMON
COUNTRY	USA
STATE	MISSISSIPPI
COUNTY	CLAY

COUNTY	HASKELL	STATE	KANSAS
HALLIBURTON		SPECTRAL DENSITY DUAL SPACED NEUTRON LOG	