

HALLIBURTON

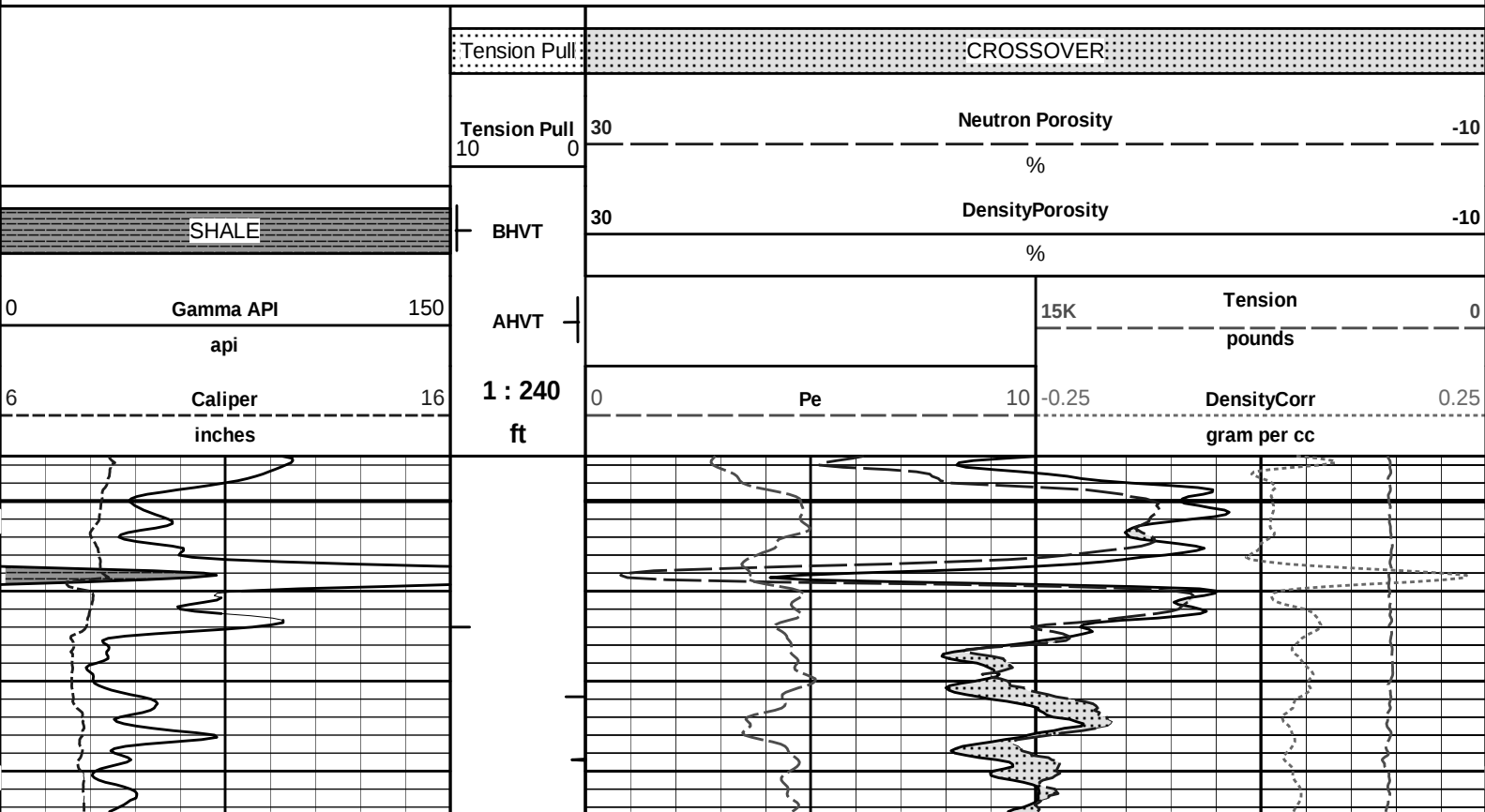
SPECTRAL DENSITY DUAL SPACED NEUTRON LOG

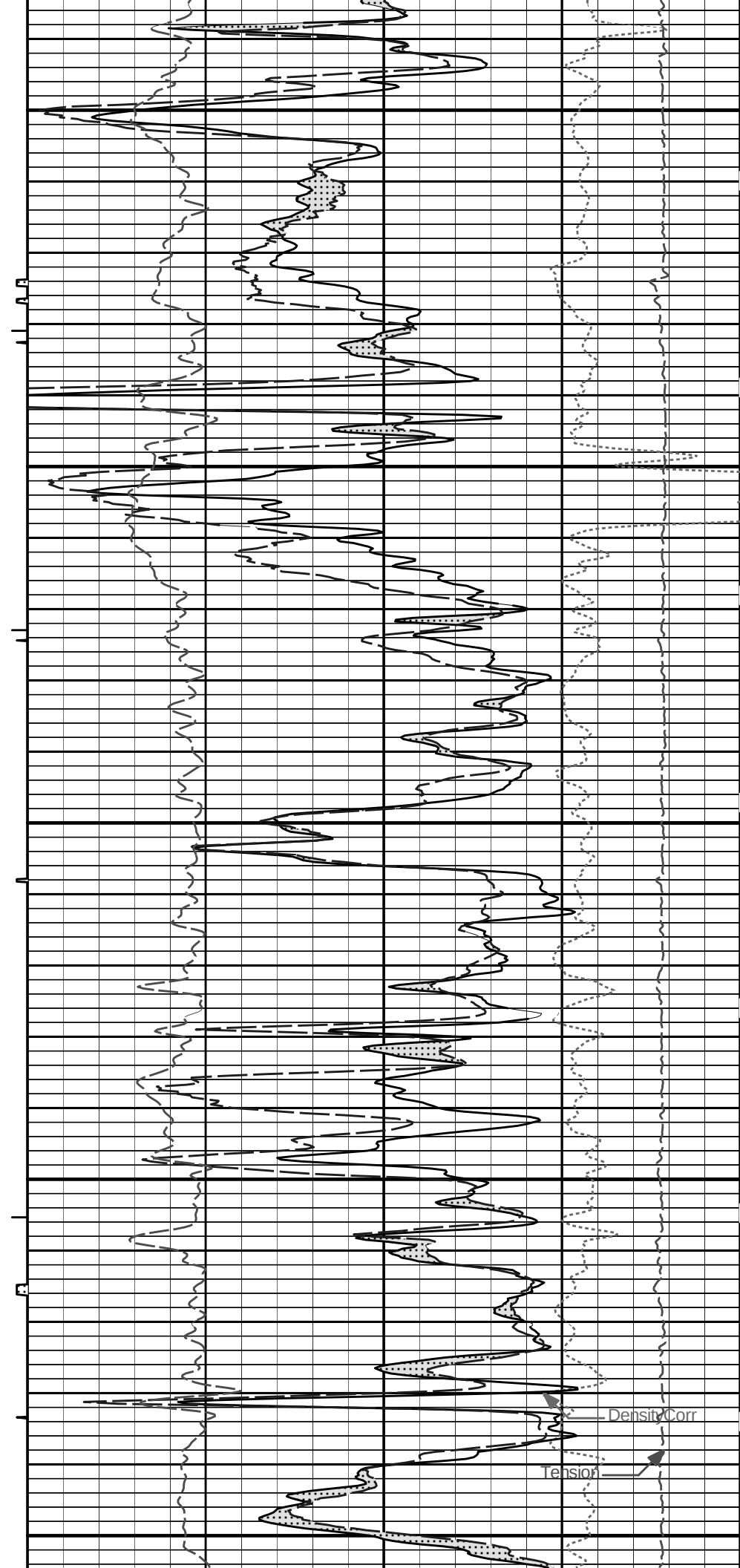
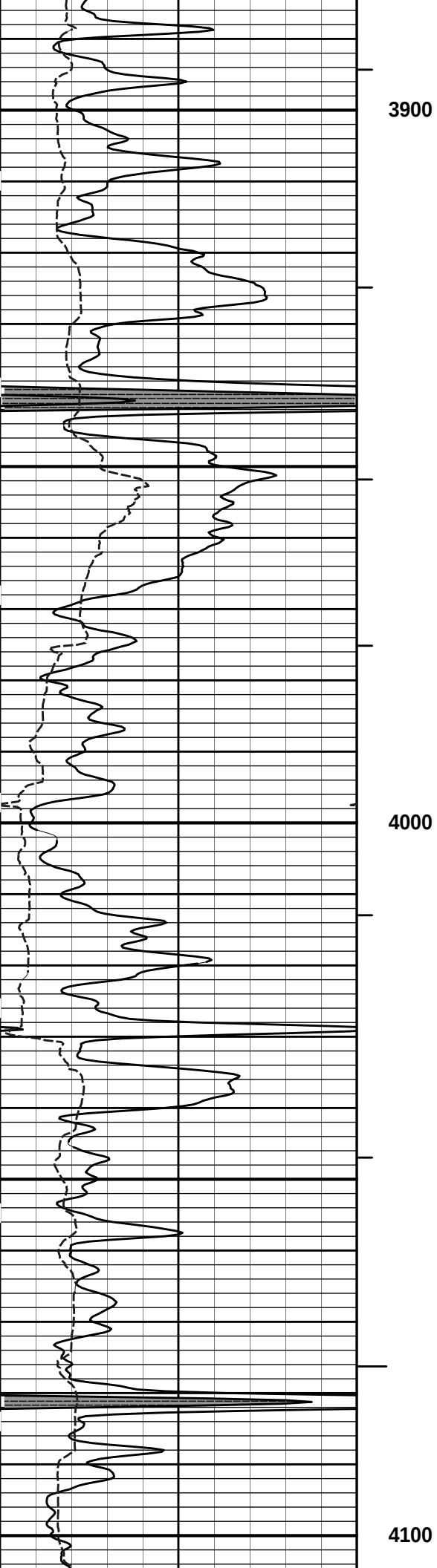
COMPANY		OXY USA	
WELL		PRENTICE A-1	
FIELD/BLOCK		HUGOTON GAS AREA	
STATE		KANSAS	
COUNTRY		USA	
Permanent Datum		G.L.	
Log measured from		KB	
Drilling measured from		KB	
Date		28-Mar-13	
Run No.		ONE	
Depth - Driller		4955.00 ft	
Depth - Logger		4949.0 ft	
Bottom - Logged Interval		4905	
Top - Logged Interval		3850	
Casing - Driller		8.625 in @ 1958.0 ft	
Casing - Logger		1960.0 ft	
Bit Size		7.875 in	
Type Fluid in Hole		WATER BASED	
Density		9.2 ppg	
Viscosity		32.00 s/qt	
PH		10.50 pH	
Fluid Loss		10.0 cpm	
Source of Sample		MUD PIT	
Rm @ Meas. Temperature		0.210 ohmm @ 60.00 degF	
Rmf @ Meas. Temperature		0.17 ohmm @ 60.00 degF	
Rmc @ Meas. Temperature		0.240 ohmm @ 60.00 degF	
Source Rmf		MEASURED	
Rmc		MEASURED	
Rm @ BHT		0.11 ohmm @ 117.0 degF	
Time Since Circulation		17.0 hr	
Time on Bottom		28-Mar-13 09:56	
Max. Rec. Temperature		117.0 degF @ 4949.0 ft	
Equipment		10782954 LIBERAL	
Recorded By		S. INGERSOLL	
Witnessed By		G. FLAGG	

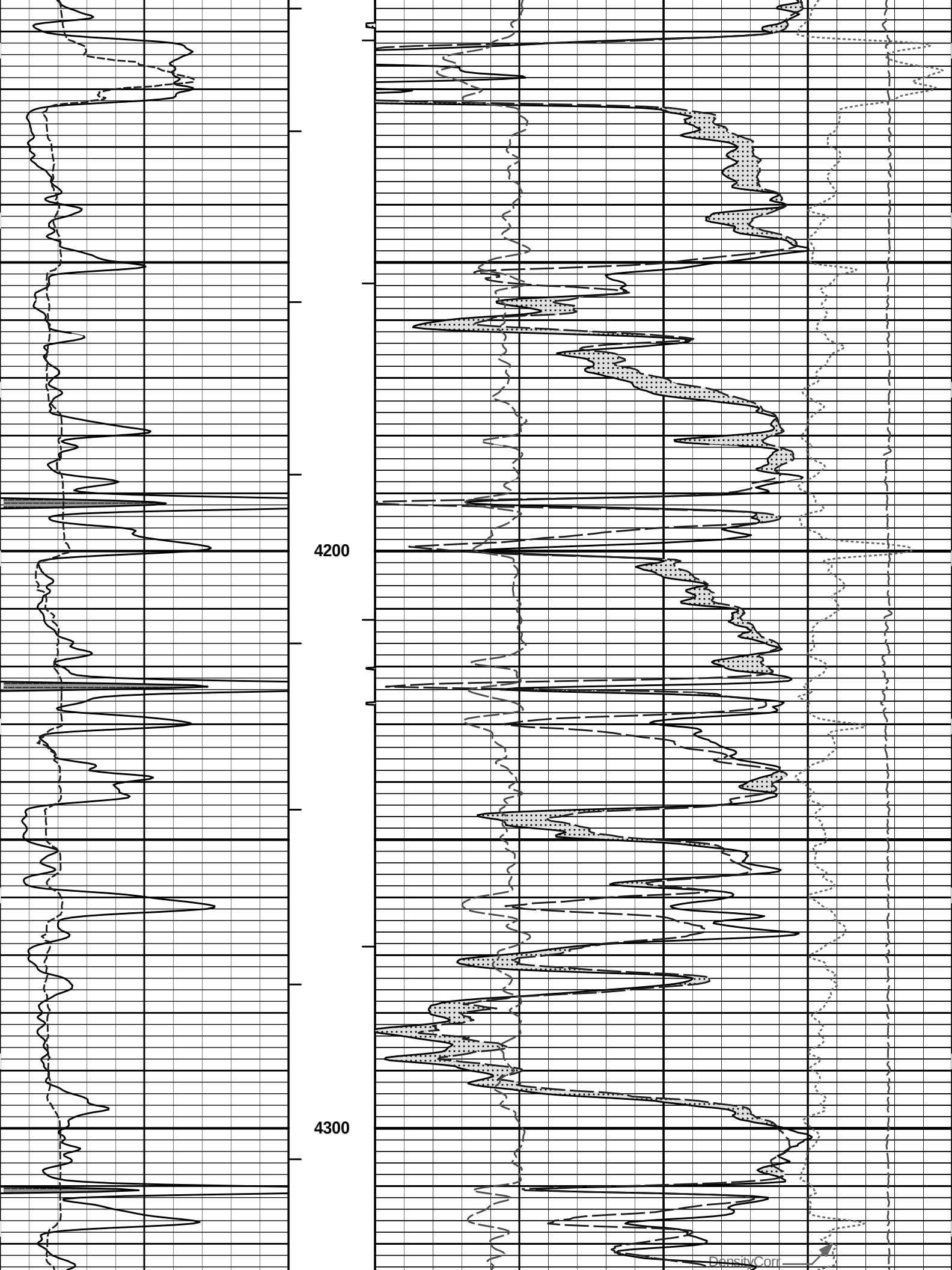
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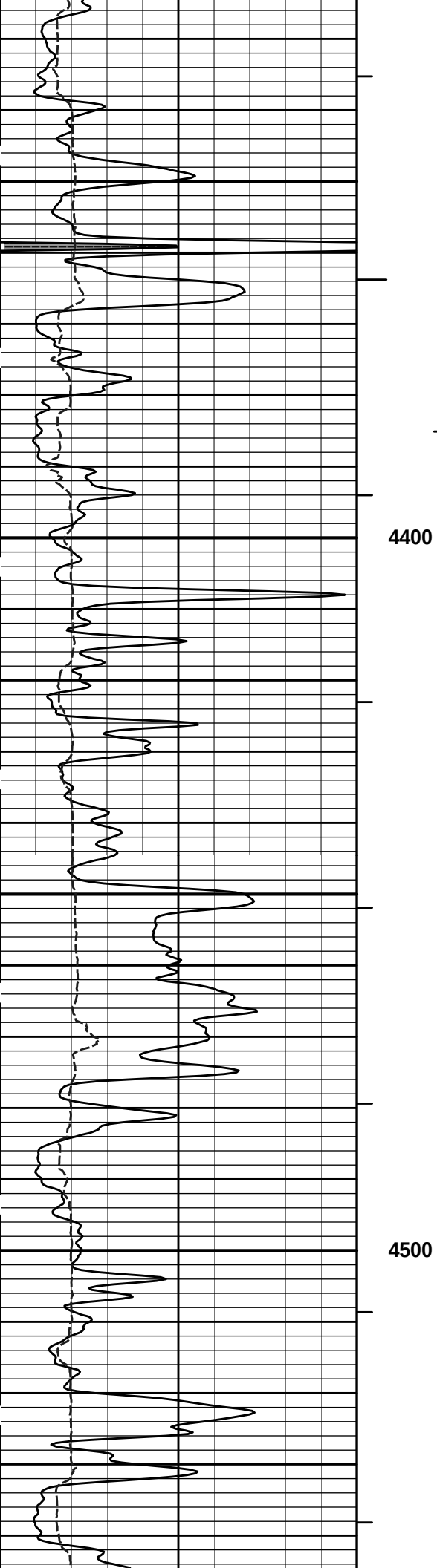
Service Ticket No.: 900315654				API Serial No.: 15093218850000				PGM Version: WL INSITE R3.8.4 (Build 5)							
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE						RESISTIVITY SCALE CHANGES									
Date	Sample No.					Type Log	Depth	Scale Up Hole	Scale Down Hole						
Depth-Driller															
Type Fluid in Hole															
Density	Viscosity														
Ph	Fluid Loss														
Source of Sample						RESISTIVITY EQUIPMENT DATA									
Rm @ Meas. Temp		@		@		Run No.	Tool Type & No.	Pad Type	Tool Pos.	Other					
Rmf @ Meas. Temp.		@		@		ONE	ACRT	N/A	CENT						
Rmc @ Meas. Temp.		@		@			10929776								
Source Rmf	Rmc														
Rm @ BHT		@		@											
Rmf @ BHT		@		@											
Rmc @ BHT		@		@											
EQUIPMENT DATA															
GAMMA				ACOUSTIC				DENSITY				NEUTRON			
Run No.		ONE		Run No.		ONE		Run No.		ONE		Run No.		ONE	
Serial No.		10748374		Serial No.		10747684		Serial No.		10673803		Serial No.		10735145	
Model No.		GTET		Model No.		BSAT		Model No.		SDLT		Model No.		DSNT	
Diameter		3.625"		No. of Cent.		2		Diameter		5.3"		Diameter		3.625"	
Detector Model No.		T-102		Spacing		.5'		Log Type		GAM-GAM		Log Type		NEU-NEU	
Type		SCINT						Source Type		CS-137		Source Type		AM-241BE	
Length		8"		LSA [Y/N]				Serial No.		5073GW		Serial No.		DSN-436	
Distance to Source		N/A		FWDA [Y/N]				Strength		1.5 CI		Strength		15 CI	
LOGGING DATA															

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	4949	1960	REC	0	150	30	-10	47.6 us/ft	30	-10	2.71 gm/CC	30	-10	LIME
DIRECTIONAL INFORMATION														
Maximum Deviation @								KOP @						
Remarks: ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING.														
HAD TO CLOSE CALIPER 3 TIMES BETWEEN 3250 - 3200 DUE TO PULLING TIGHT.														



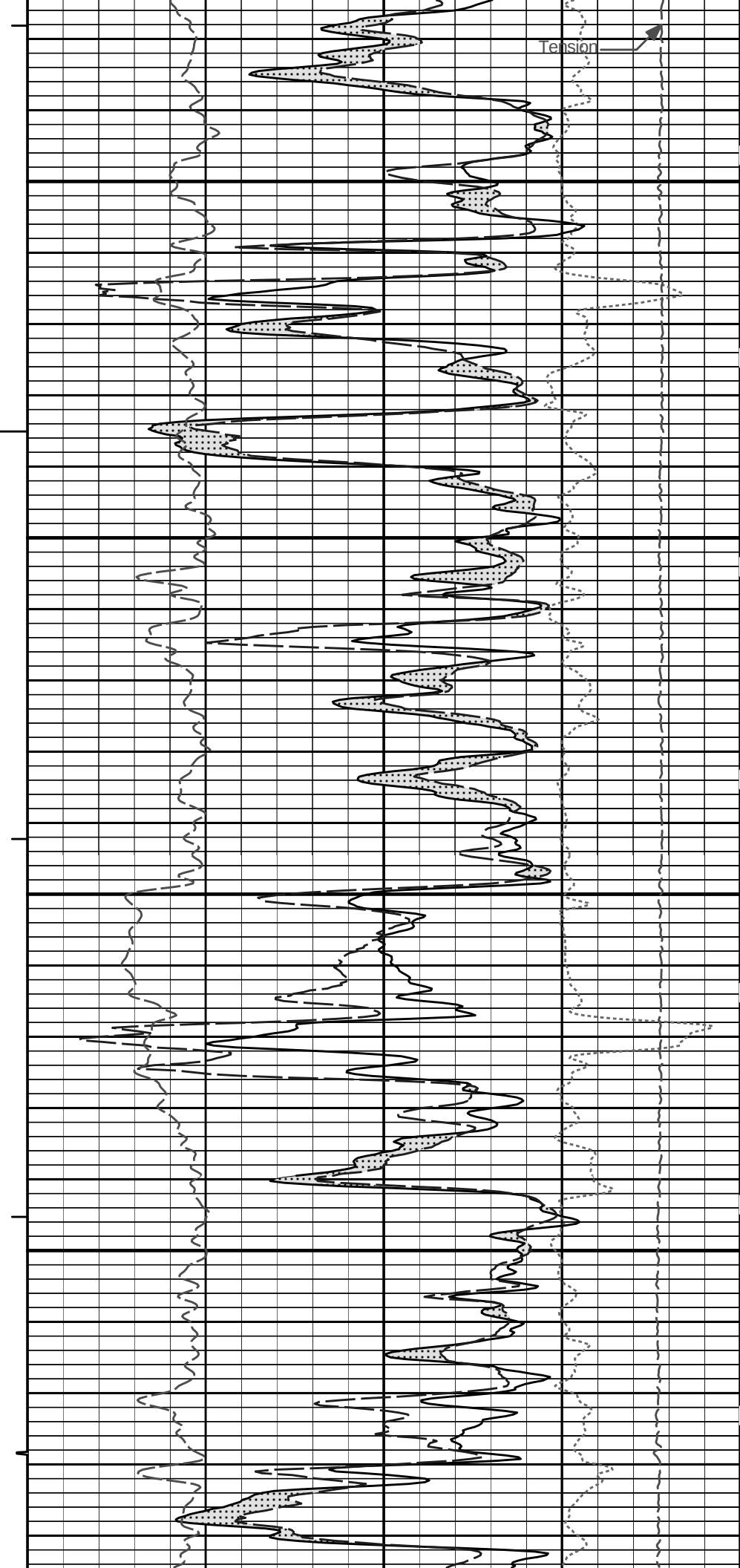


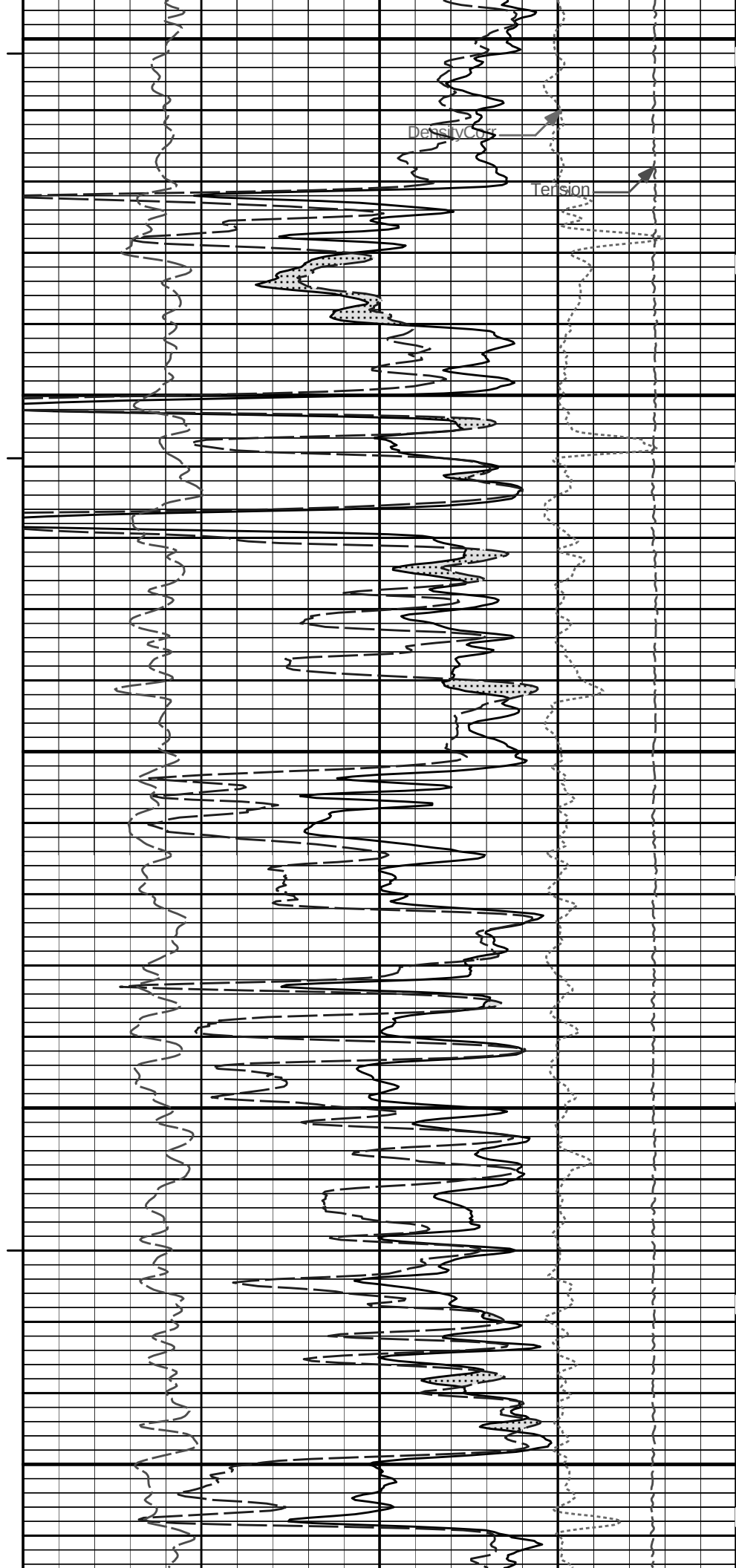
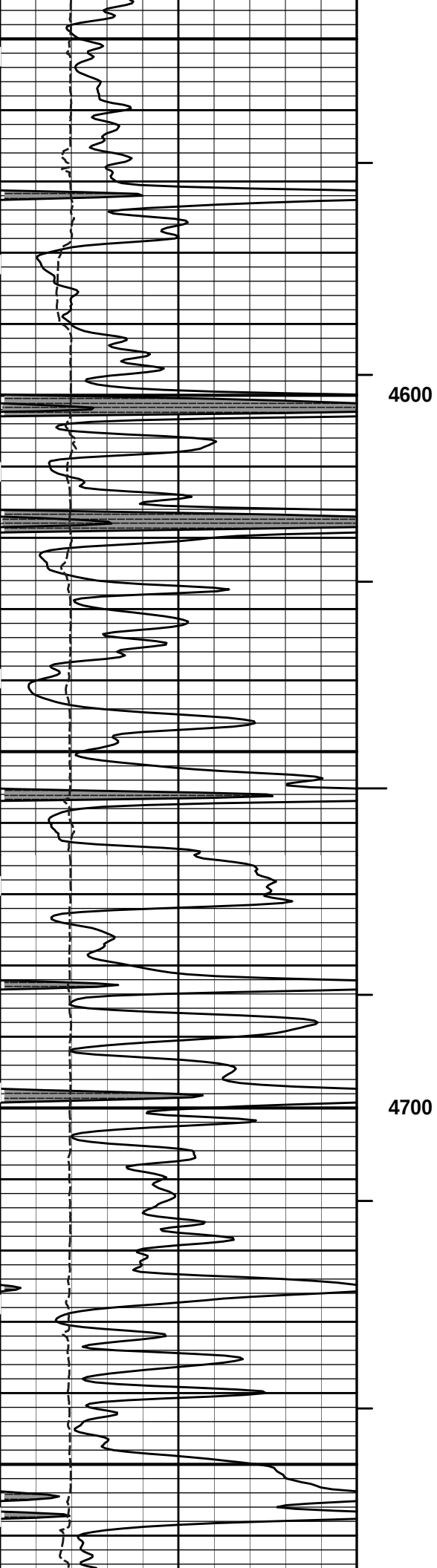


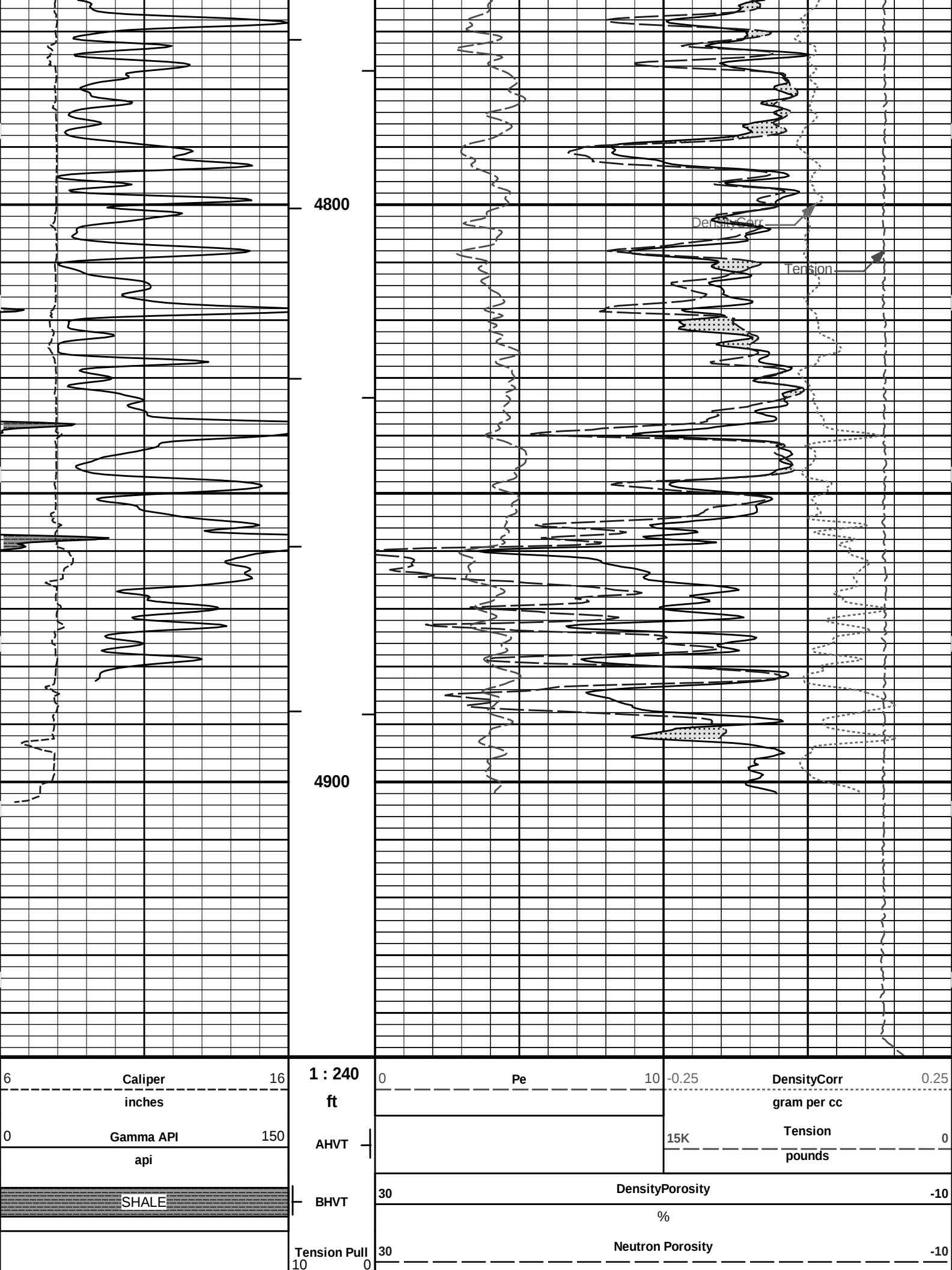


4400

4500







4800

4900

DensityCorr

Tension

6	Caliper	16
	inches	
0	Gamma API	150
	api	
	SHALE	

1 : 240
ft
AHVT
BHVT
Tension Pull
10 0

0	Pe	10	-0.25	DensityCorr	0.25
				gram per cc	
			15K	Tension	0
				pounds	
30				DensityPorosity	-10
				%	
30				Neutron Porosity	-10

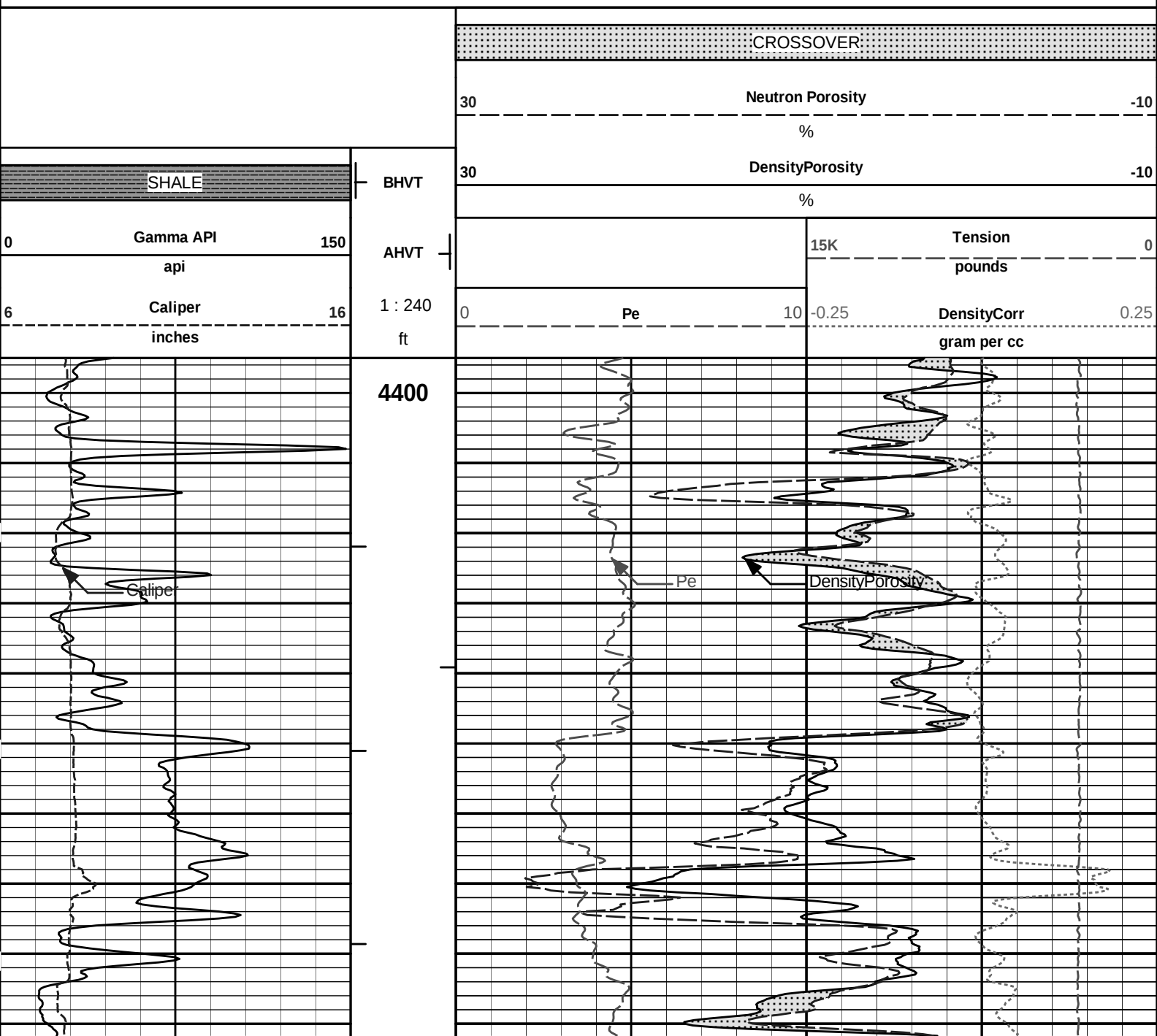
CROSSOVER

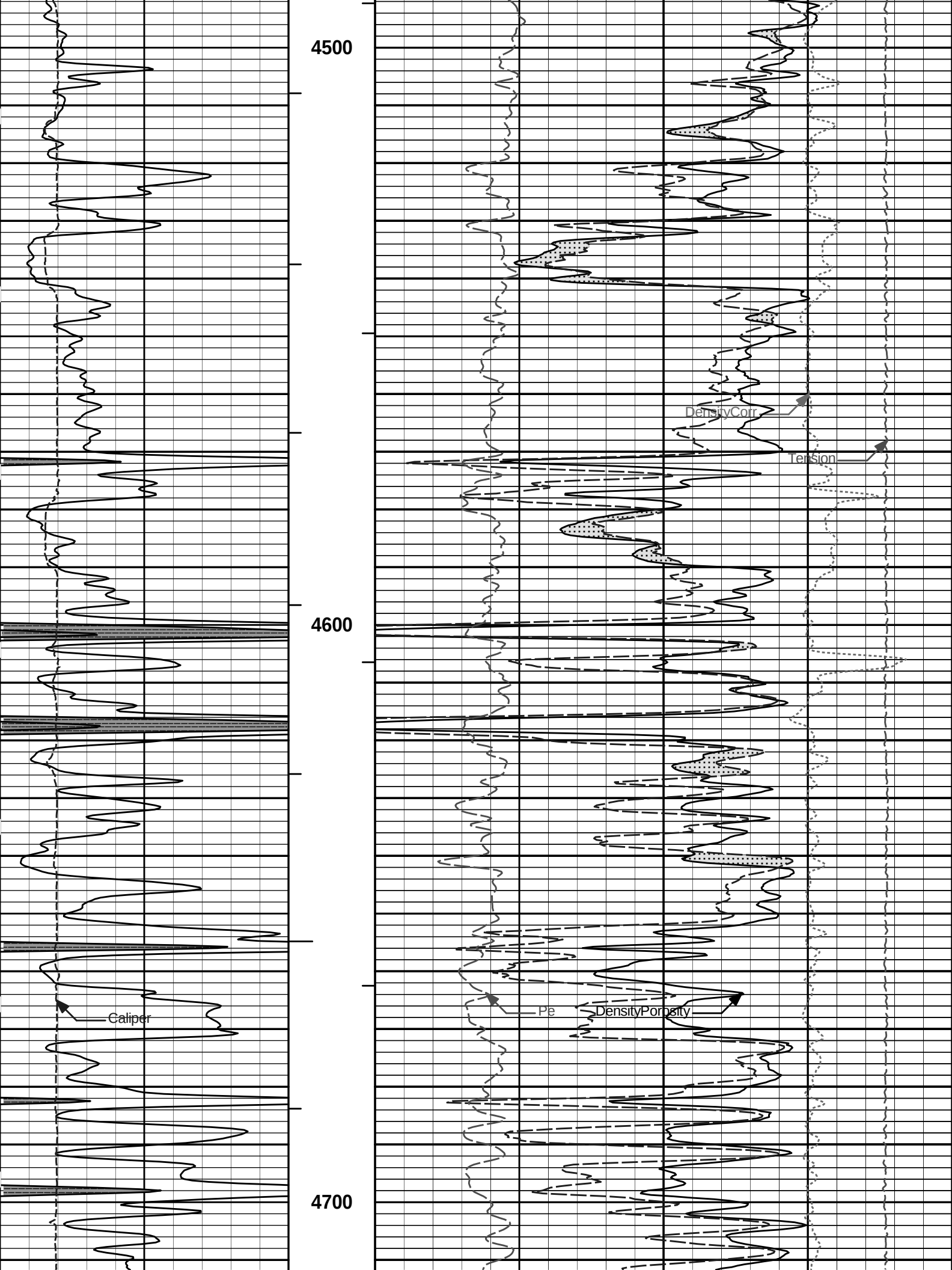
Plot Time: 28-Mar-13 13:02:21
Plot Range: 3845 ft to 4947.5 ft
Data: PRENTICE_A-1\Well Based\DETAIL\
Plot File: \\POROSITY\Poro IQ_5 MAIN LIB

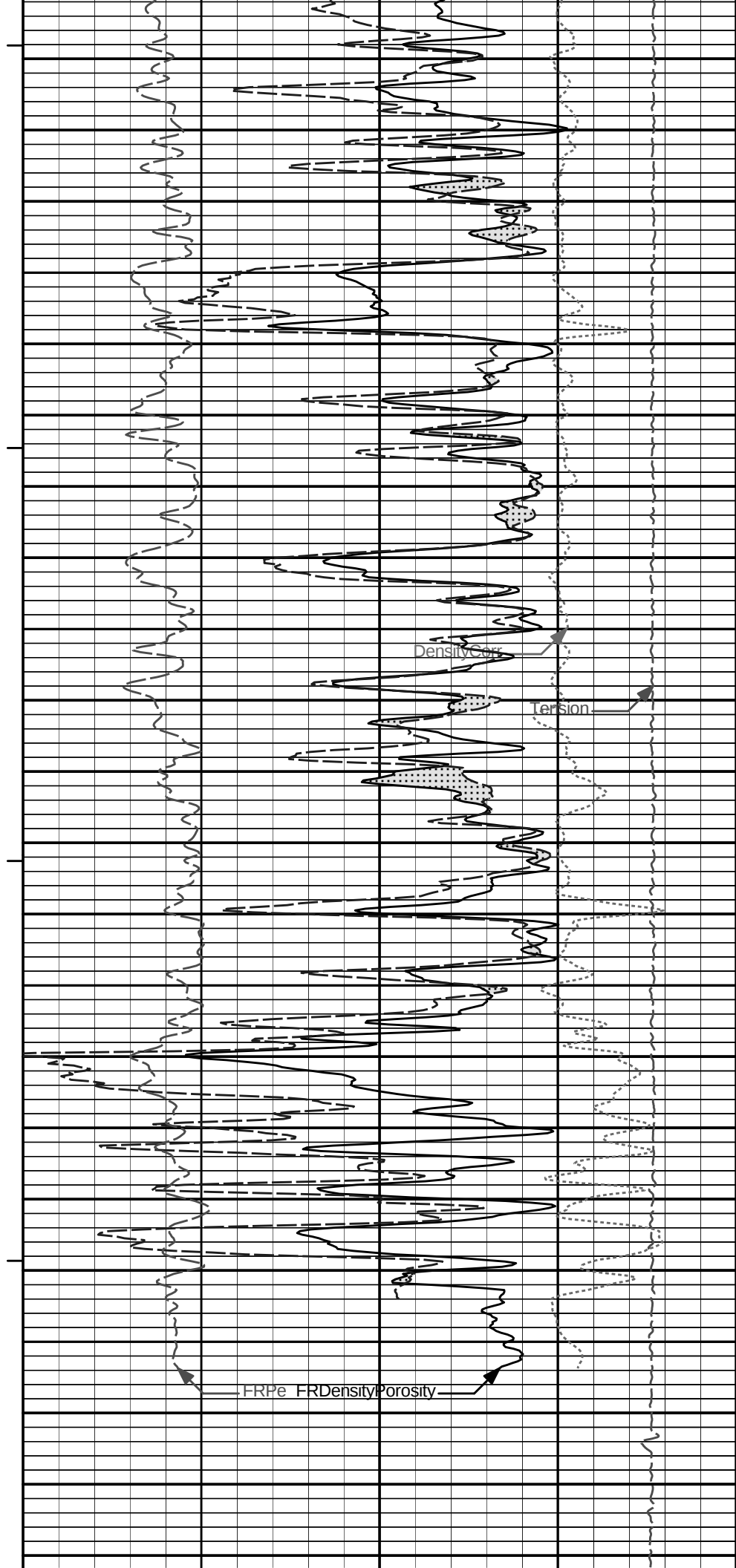
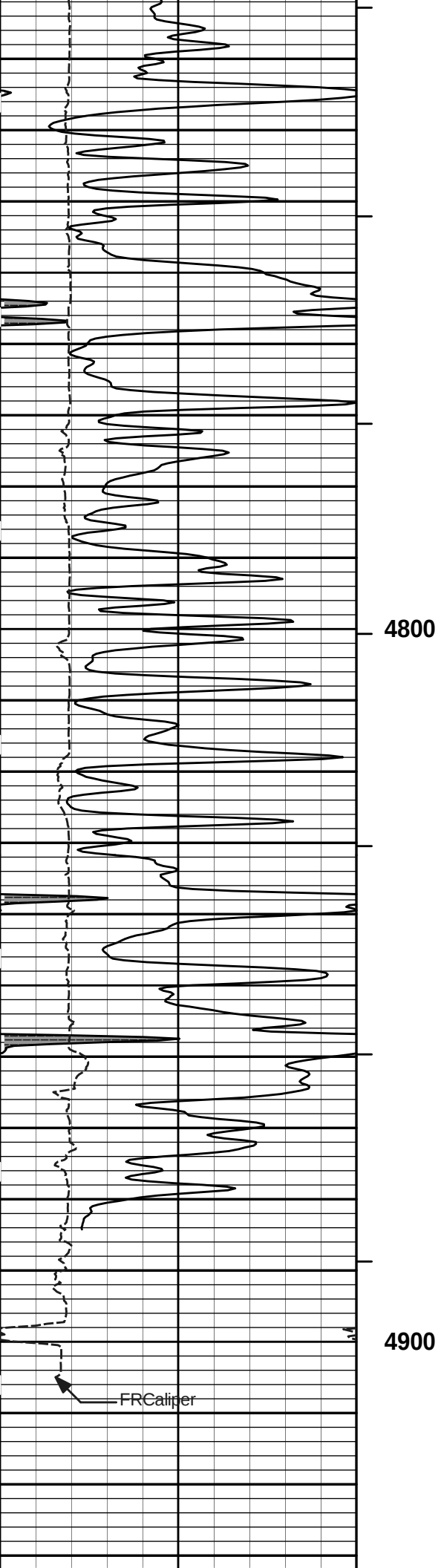
5 INCH MAIN LOG

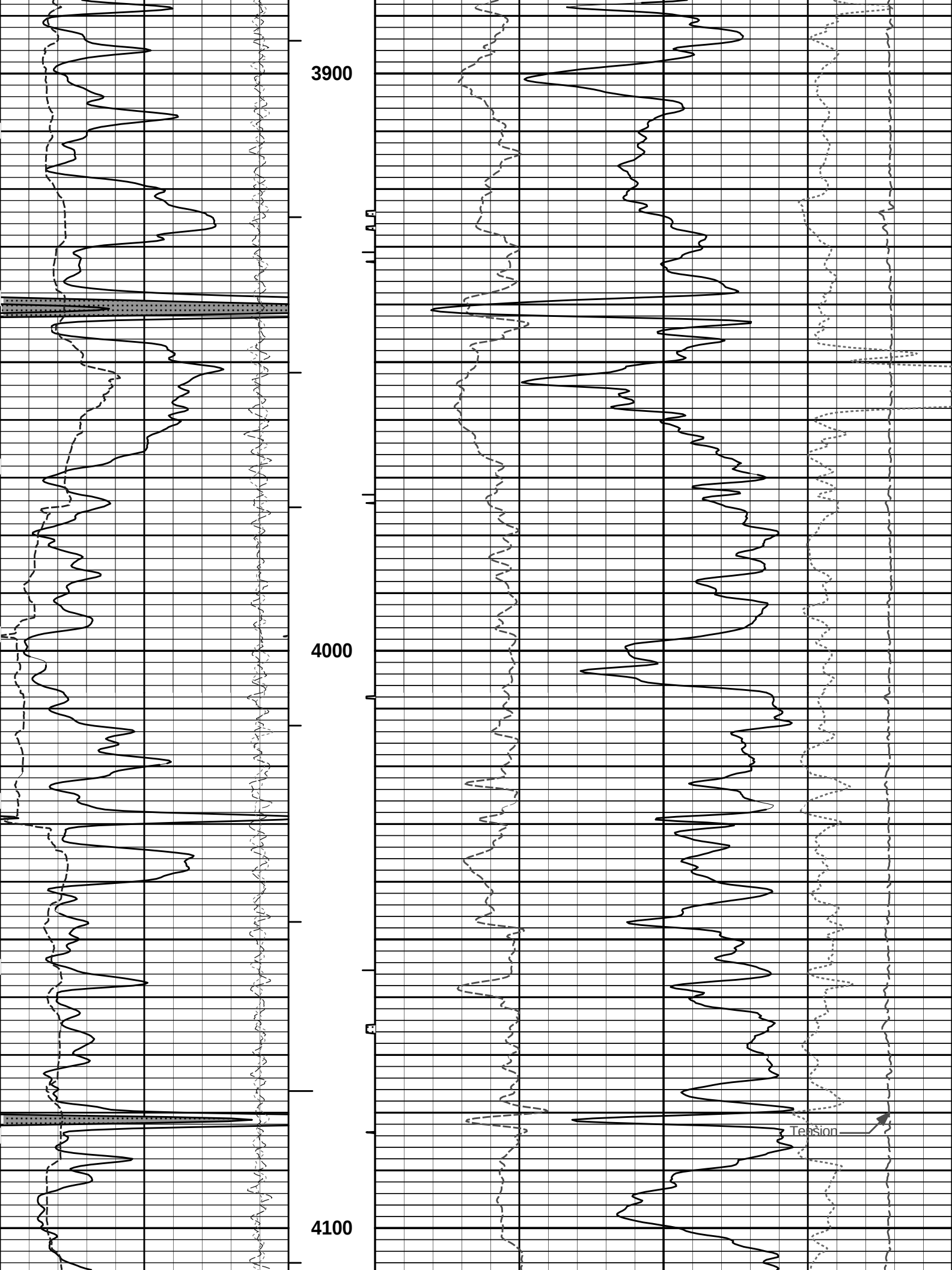
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Plot Range: 4395 ft to 4949.17 ft
Data: PRENTICE_A-1\Well Based\REPEAT\
Plot File: \\POROSITY\IPoro IQ 5 REP LIB

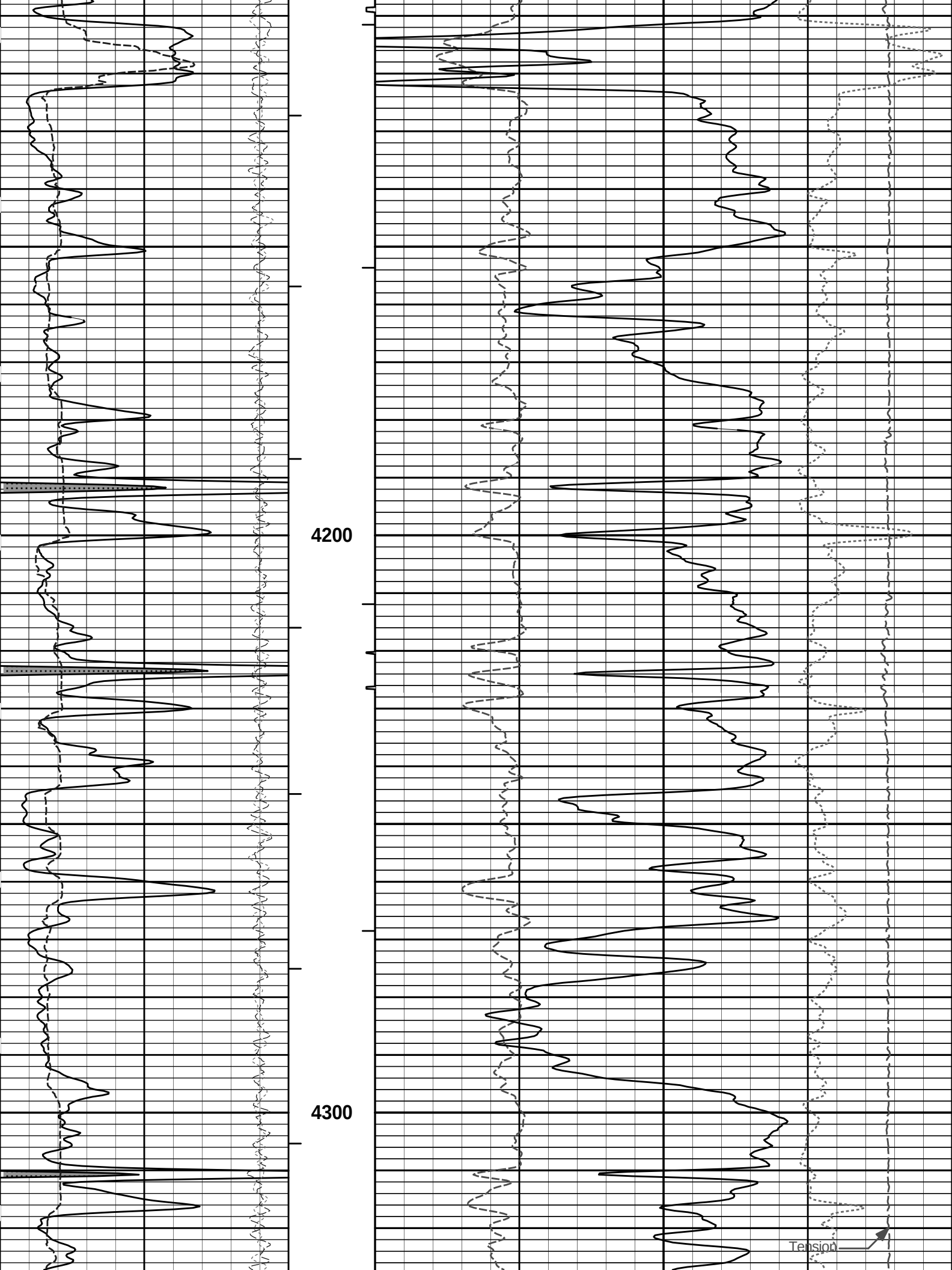
REPEAT SECTION

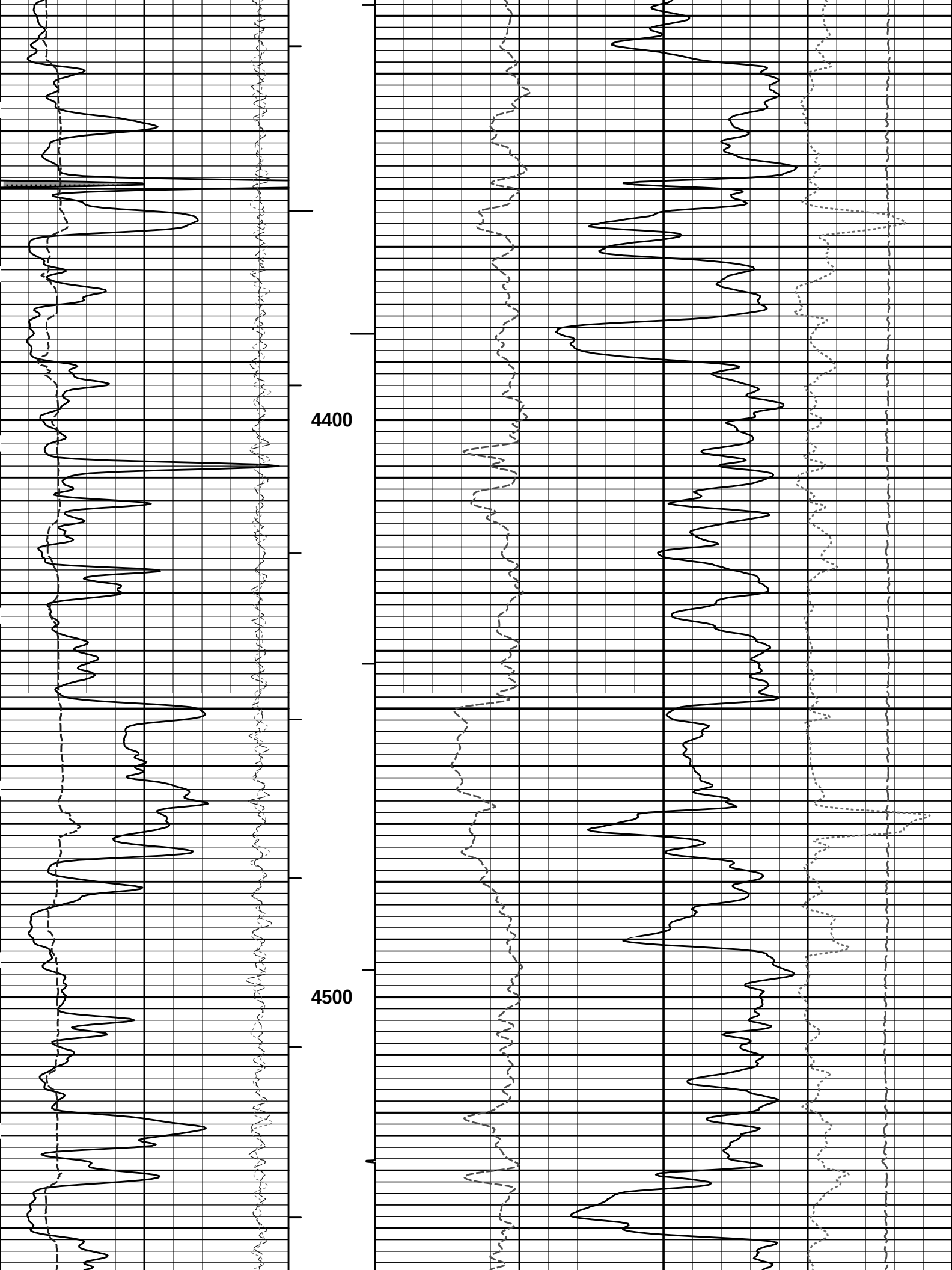


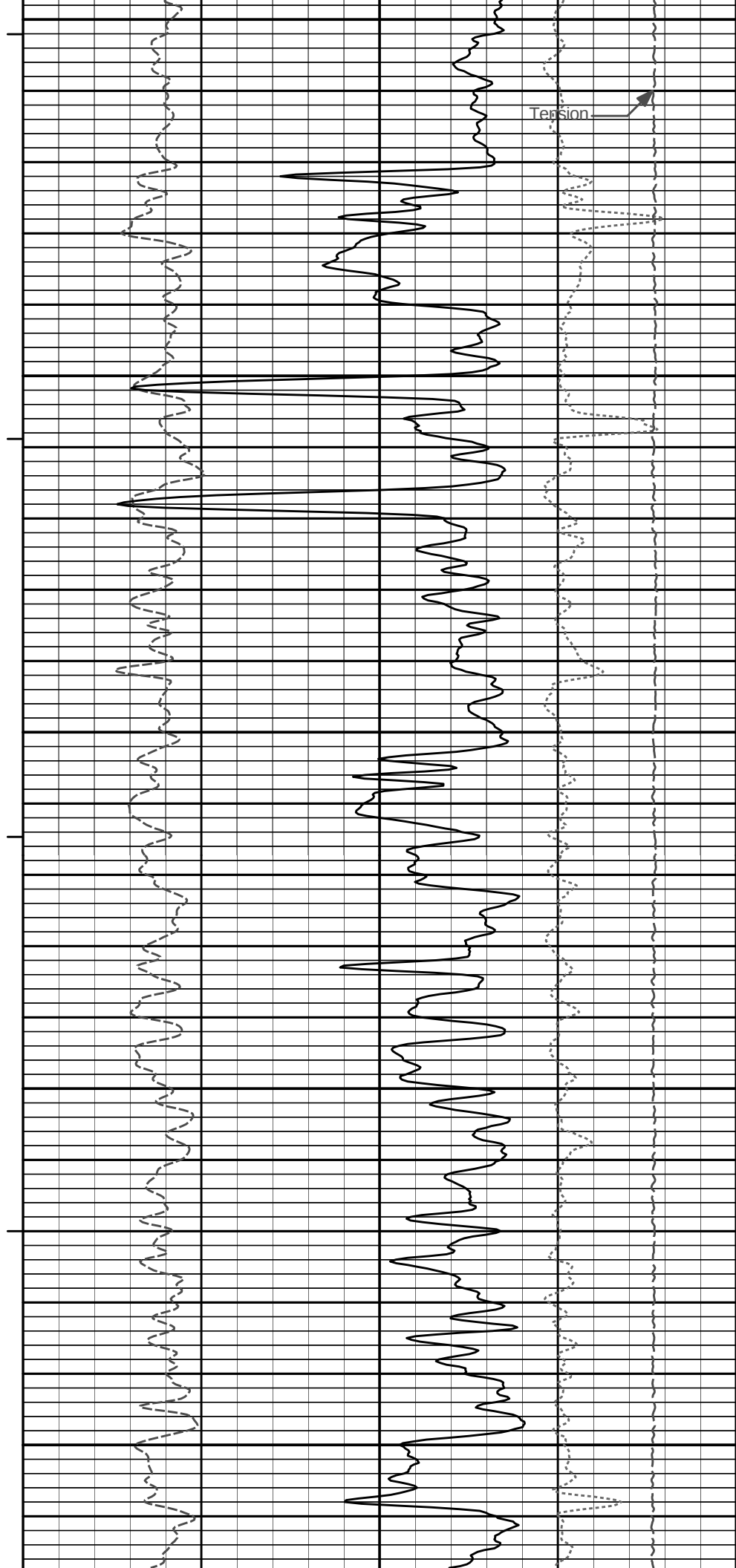
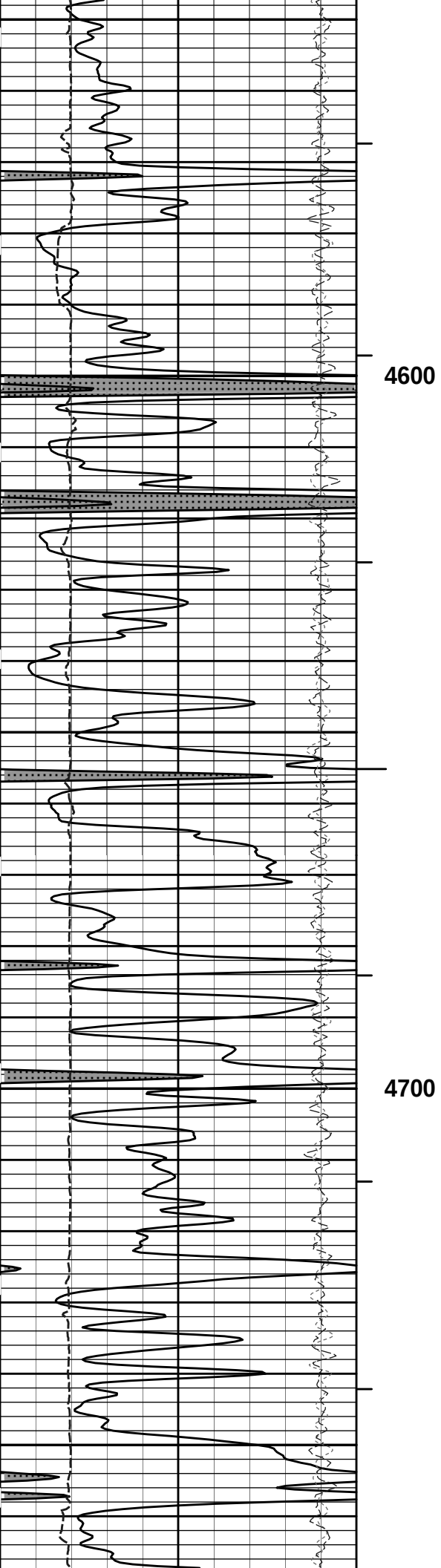


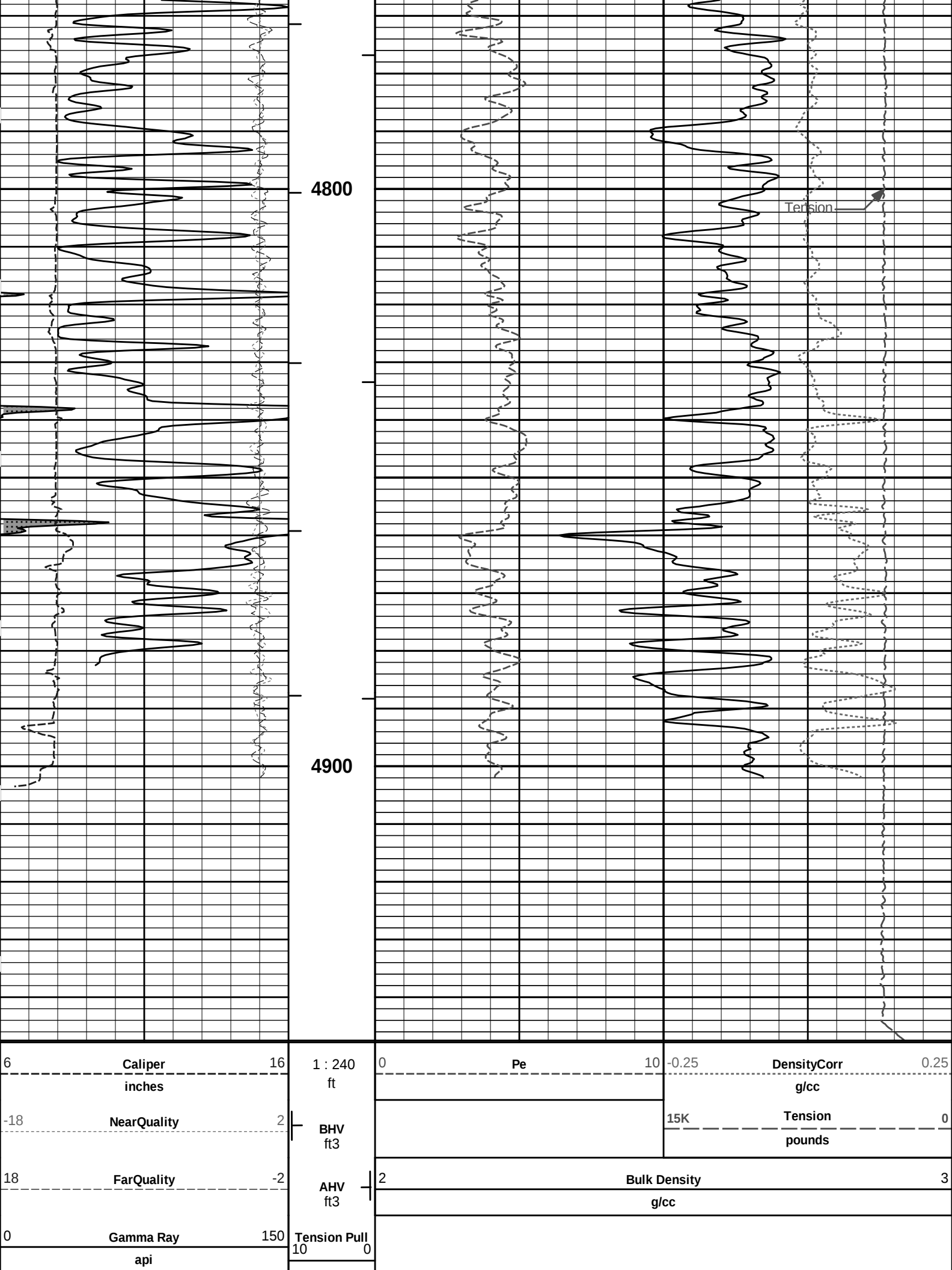












6	Caliper	16	1 : 240	0	Pe	10	-0.25	DensityCorr	0.25
	inches		ft					g/cc	
-18	NearQuality	2	BHV			15K		Tension	0
			ft3					pounds	
18	FarQuality	-2	AHV	2	Bulk Density				
			ft3		g/cc				
0	Gamma Ray	150	Tension Pull						
	api		10	0					

SHALE	Tension Pull

HALLIBURTON

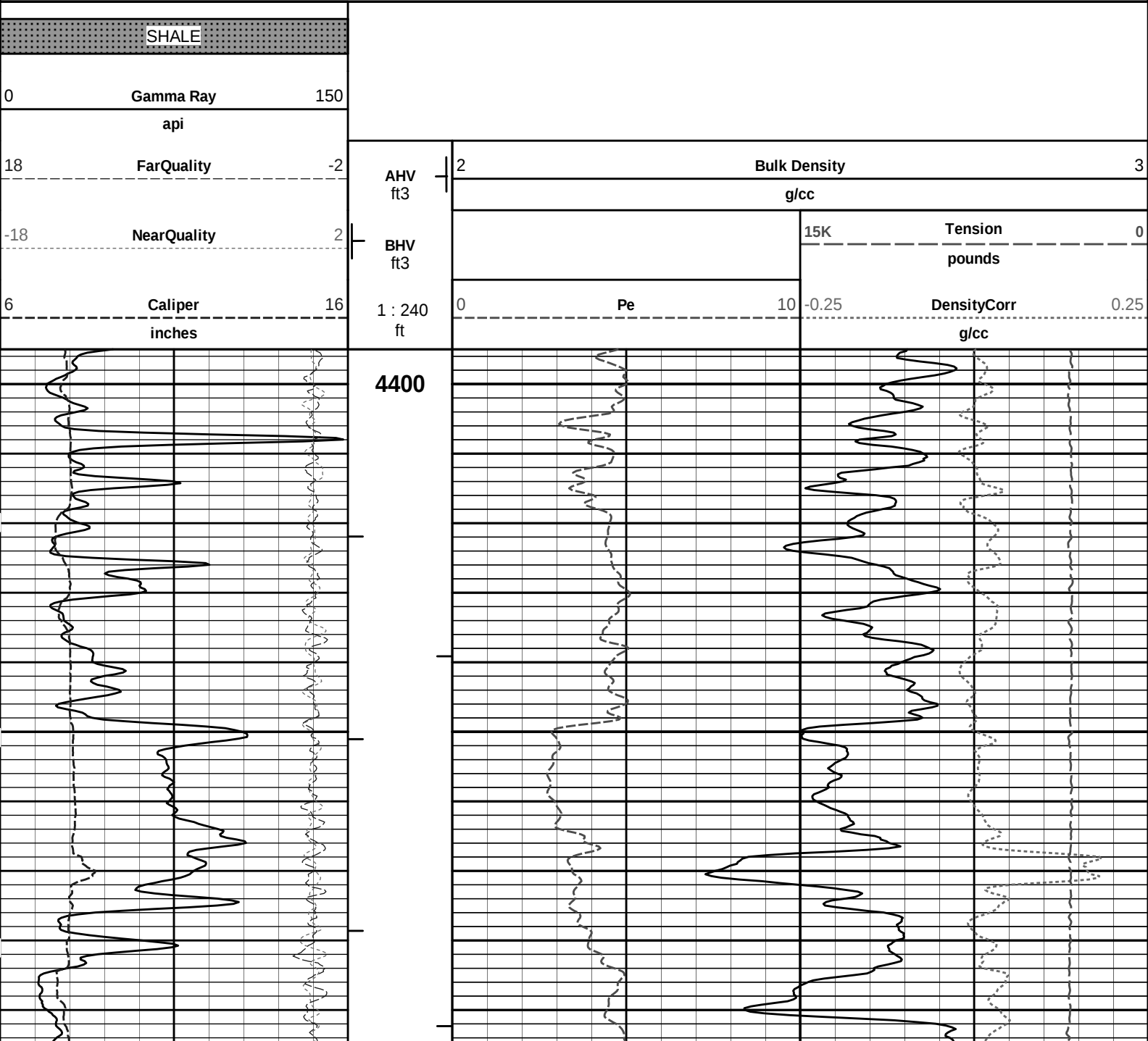
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Plot Range: 3845 ft to 4947.5 ft
Data: PRENTICE_A-1\Well Based\DETAIL\
Plot File: \\-LOCAL-\\PRENTICE_A-1\Well Based\POROSITY\BULKD_5_MAIN_LIB

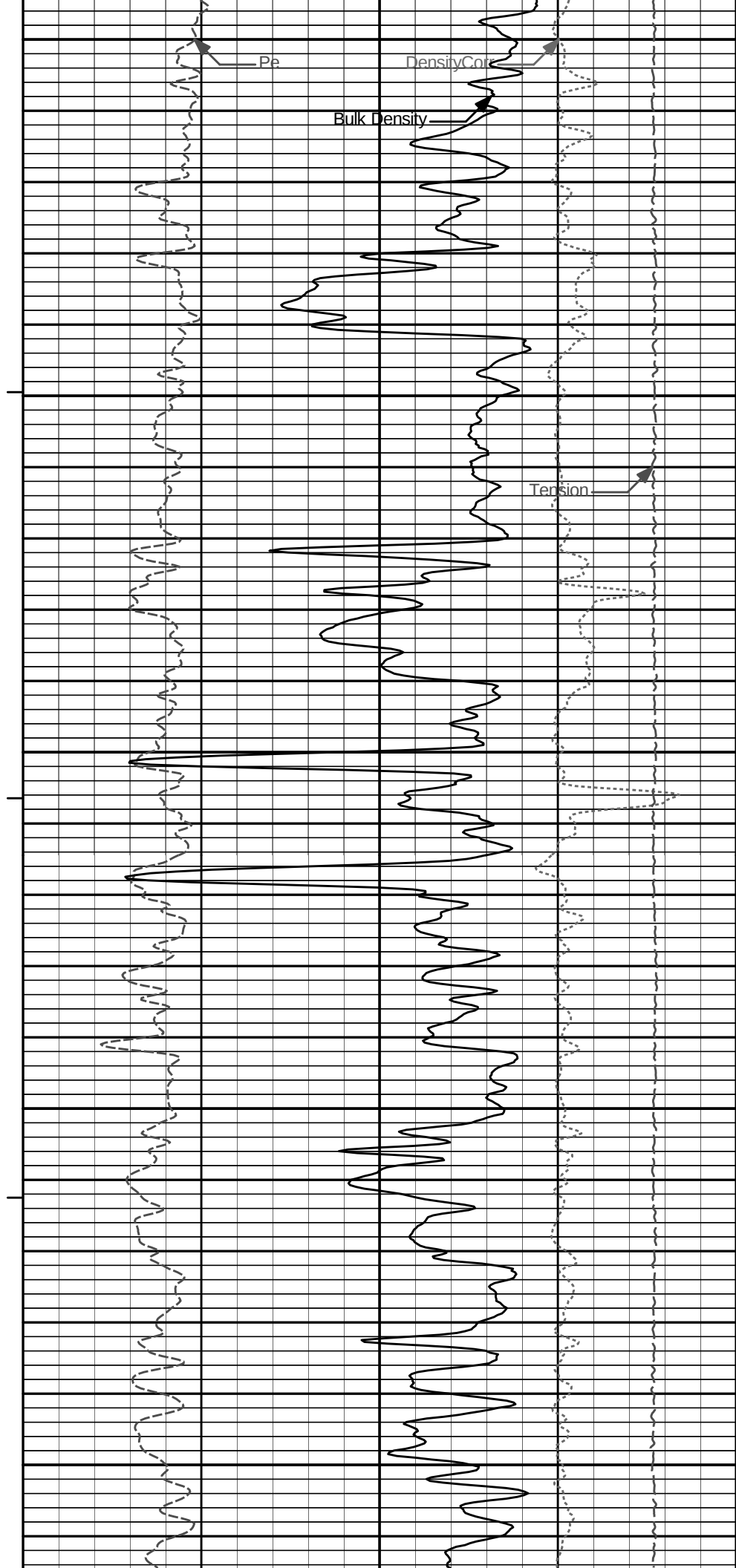
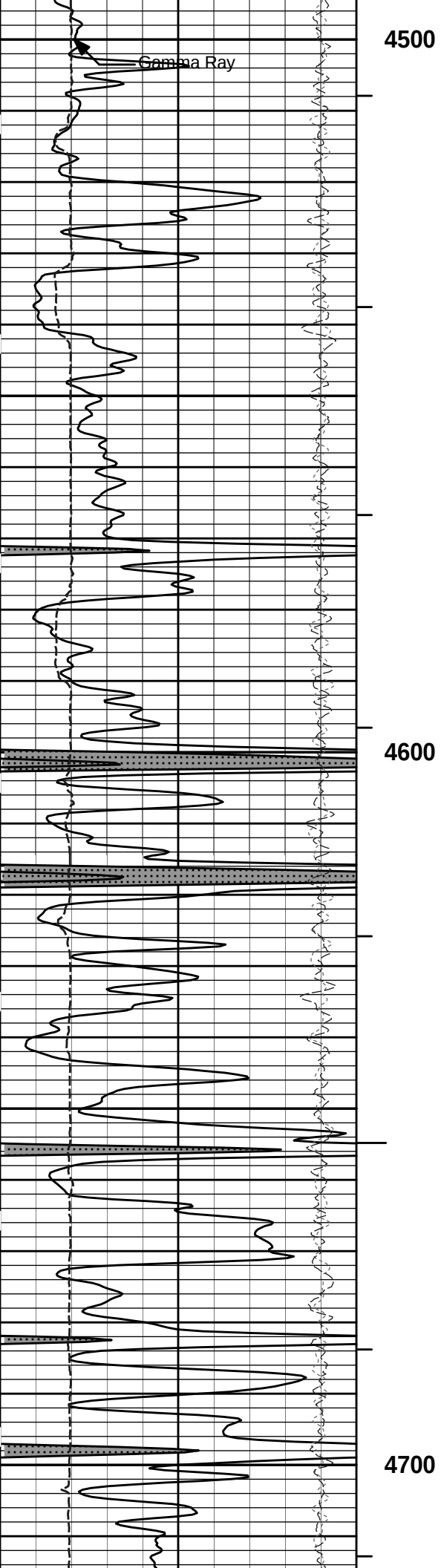
5 INCH MAIN LOG

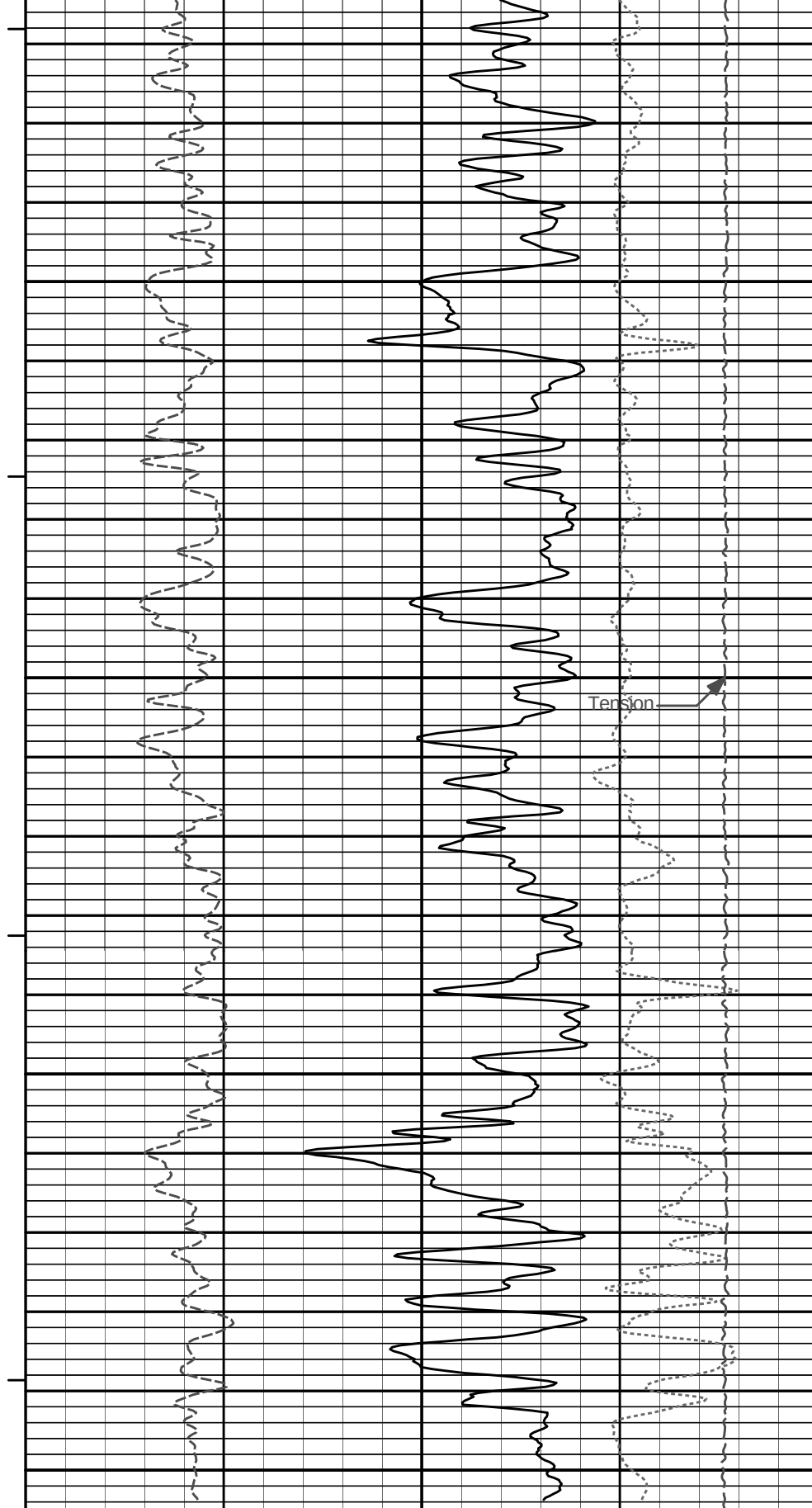
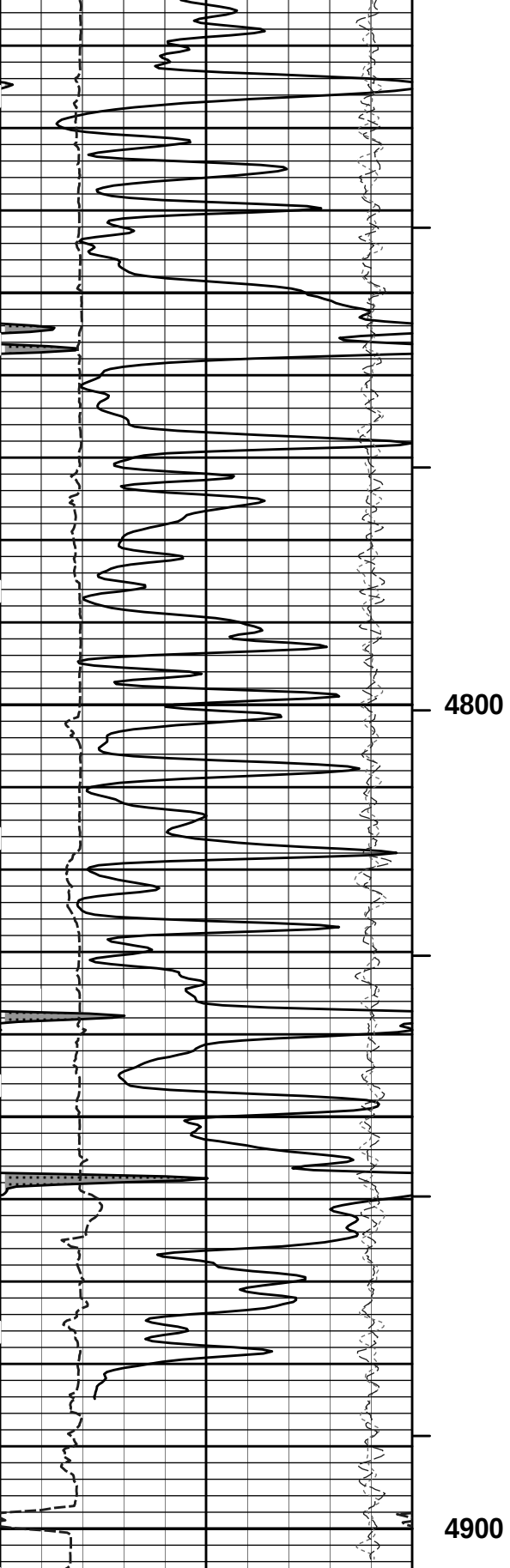
HALLIBURTON

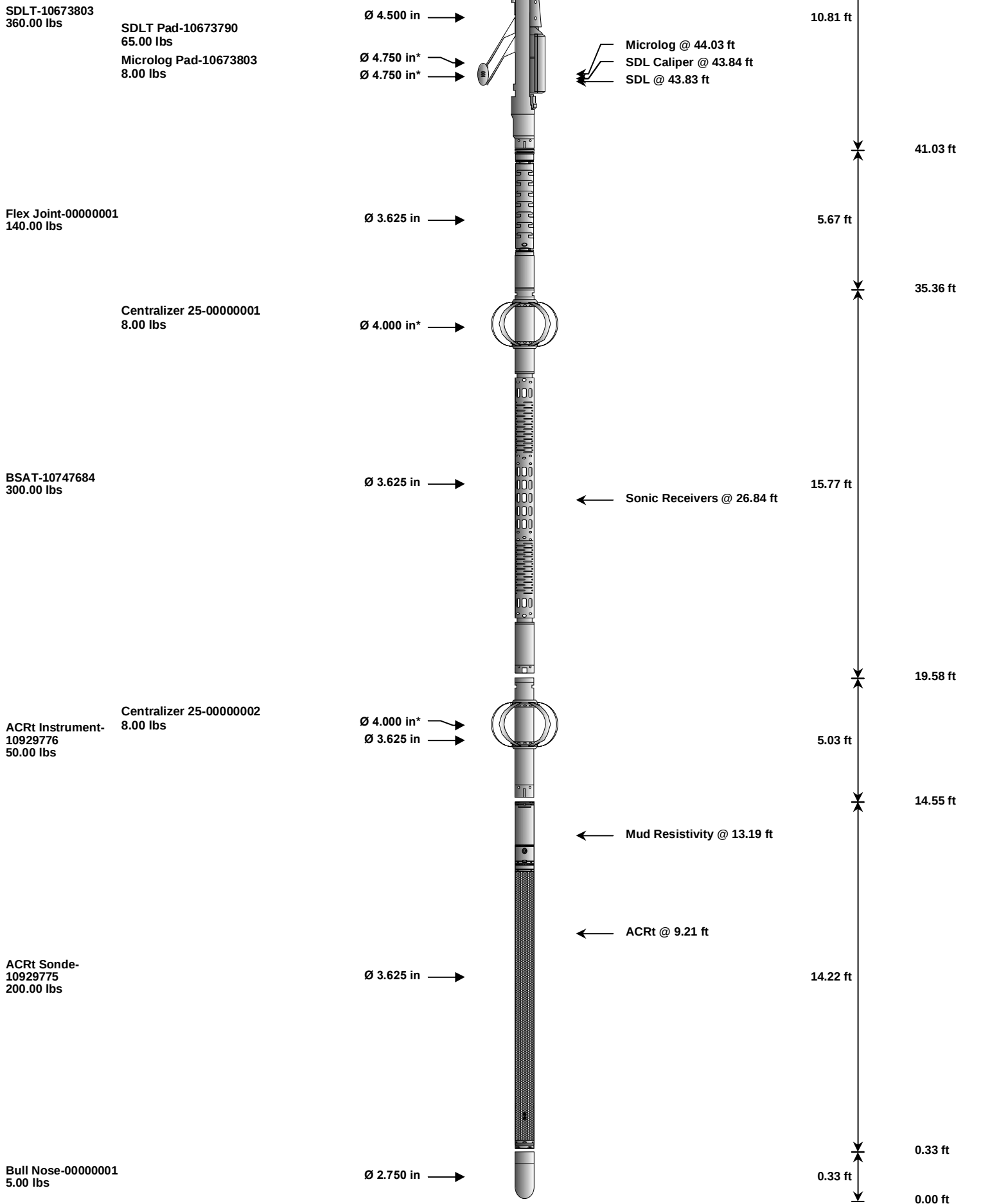
Plot Time: 28-Mar-13 13:02:27
Plot Range: 4395 ft to 4949.17 ft
Data: PRENTICE_A-1\Well Based\REPEAT\
Plot File: \\-LOCAL-\\PRENTICE_A-1\Well Based\POROSITY\BULKD_5_REP_LIB

REPEAT SECTION









Mnemonic	Tool Name	Serial	Weight	Length	Accumulated Length	Max.Log. Speed
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		Number	(lbs)	(ft)	(ft)	(fpm)
CH	Standard OH Cable Head	12345678	30.00	1.92	73.79	300.00
SP	SP Sub	12345678	60.00	3.74	70.05	300.00
GTET	Gamma Telemetry Tool	10748374	165.00	8.52	61.53	60.00
DSNT	Dual Spaced Neutron	10735145	174.00	9.69	51.84	60.00
DCNT	DSN Decentralizer	10735145	6.60	5.13	*	55.17
SDLT	Spectral Density Tool	10673803	360.00	10.81	41.03	60.00
MICP	Microlog Pad	10673803	8.00	1.00	*	43.53
SDLP	Density Insite Pad	10673790	65.00	2.55	*	43.24
FLEX	Flex Joint	00000001	140.00	5.67	35.36	300.00
BSAT	Borehole Sonic Array Tool	10747684	300.00	15.77	19.58	60.00
OBCEN	Centralizer - 25 in. Overbody	00000001	8.00	2.08	*	32.82
ACRt	Array Compensated True Resistivity Instrument Section	10929776	50.00	5.03	14.55	300.00
OBCEN	Centralizer - 25 in. Overbody	00000002	8.00	2.08	*	16.55
ACRt	Array Compensated True Resistivity Sonde Section	10929775	200.00	14.22	0.33	300.00
BLNS	Bull Nose	00000001	5.00	0.33	0.00	300.00
Total			1,579.60	75.71		
* Not included in Total Length and Length Accumulation.						
Data: PRENTICE_A-110002 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BNIDLE				Date: 28-Mar-13 08:34:10		

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	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	0.500	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	4955.00	ft	
	SHARED	BHT	Bottom Hole Temperature	135.0	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	

CrossPlot	Rwa / CrossPlot	ADP	Use Air Porosity to calculate CrossplotPhi	No	
	GTET	GROK	Process Gamma Ray?	Yes	
	GTET	GRSO	Gamma Tool Standoff	0.000	in
	GTET	GEOK	Process Gamma Ray EVR?	No	
	GTET	TPOS	Tool Position for Gamma Ray Tools.	Eccentered	
	DSNT	DNOK	Process DSN?	Yes	
	DSNT	DEOK	Process DSN EVR?	No	
	DSNT	NLIT	Neutron Lithology	Limestone	
	DSNT	DSNO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.250	in
	DSNT	DNTP	Temperature Correction Type	None	
	DSNT	DPRS	DSN Pressure Correction Type	None	
	DSNT	SHCO	View More Correction Options	No	
	DSNT	UTVD	Use TVD for Gradient Corrections?	No	
	DSNT	LHWT	Logging Horizontal Water Tank?	No	
	SDLT	CLOK	Process Caliper Outputs?	Yes	
	SDLT Pad	DNOK	Process Density?	Yes	
	SDLT Pad	DNOK	Process Density EVR?	No	
	SDLT Pad	CB	Logging Calibration Blocks?	No	
	SDLT Pad	SPVT	SDLT Pad Temperature Valid?	Yes	
	SDLT Pad	DTWN	Disable temperature warning	No	
	SDLT Pad	DMA	Formation Density Matrix	2.710	g/cc
	SDLT Pad	DFL	Formation Density Fluid	1.000	g/cc
	Microlog Pad	MLOK	Process MicroLog Outputs?	Yes	
	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 Up	
	ACRt Sonde	TPOS	Tool Position	Free Hanging	
	ACRt Sonde	RMOP	Rmud Source	Mud Cell	
	ACRt Sonde	RMIN	Minimum Resistivity for MAP	0.20	ohmm
	ACRt Sonde	RMIN	Maximum Resistivity for MAP	200.00	ohmm
	ACRt Sonde	THQY	Threshold Quality	0.50	
	ACRt Sonde	MRFX	Fixed mud resistivity	2000	ohmm
BOTTOM					
Data: PRENTICE_A-1\0002 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BN\005 28-Mar-13 10:38 Up @4947.8f				Date: 28-Mar-13 12:06:22	

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:	GTET - 10748374	Reference Calibration Date:	17-Jan-13 13:03:23
Engineer:	THOMAS HYDE	Calibration Date:	12-Mar-13 13:11:16
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1

Calibrator API Reference:228.00 api
Equivalent Calibrator API Reference:232.0 api

Measurement	Measured	Calibrated	Units
Background	43.5	43.2	api
Background + Calibrator	277.4	275.2	api
Calibrator	233.9	232.0	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name:	GTET - 10748374	Reference Calibration Date:	12-Mar-13 13:11:16
Engineer:	S. INGERSOLL	Calibration Date:	27-Mar-13 23:33:12
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1

Calibrator Source S/N: TB-185
Calibrator API Reference:228.00 api
Equivalent Calibrator API Reference:232.0 api

Field Verification	Shop	Field	Units
Background	43.2	62.7	api
Background + Calibrator	275.2	292.2	api
Calibrator	232.0	229.5	api

Shop	Field	Difference	Tolerance
232.0	229.5	2.5	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name:	DSNT - 10735145	Reference Calibration Date:	12-Feb-13 16:21:29
Engineer:	THOMAS HYDE	Calibration Date:	12-Mar-13 13:50:23
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1

Logging Source S/N: DSN-436
Tank Serial Number: 105060
Reference value assigned to Tank: 51.680
Snow Block S/N: TRK_954
Calibration Tank Water Temperature: 65 degF
Min. Tool Housing Outside Diameter: 3.620 in

CALIBRATION CONSTANTS			
Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.940	0.936	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):	0.2119	0.2106	0.0012	+/- 0.0020
Calibrated Ratio:	9.76	9.72	0.041	+/- 0.050

VERIFIER		
Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0540	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 - 10735145	Reference Calibration Date:	12-Mar-13 13:50:23	
Engineer:	S. INGERSOLL	Calibration Date:	27-Mar-13 23:35:59	
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1	
Logging Source S/N: DSN-436				
Snow Block S/N: TRK_954				
NEUTRON FIELD-CHECK SUMMARY				
	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0540	0.0671	0.0132	+/- 0.0150
PASS/FAIL SUMMARY				
Block Change Check:			Passed	
Snow Block Stat Check:			Passed	
Temperature Check:			Passed	

DENSITY CALIPER SHOP CALIBRATION			
Tool Name:	SDLT - 10673803	Reference Calibration Date:	12-Mar-13 13:14:02
Engineer:	THOMAS HYDE	Calibration Date:	12-Mar-13 13:18:16
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1
Host Tool Name:	DSNT - 10735145		
CALIBRATION COEFFICIENTS			
Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-3713.67	-3673.34	-7000.00 - -1000.00
Pad Gain	0.0003799	0.0003767	0.000200 - 0.000600
Arm Offset	-4381.70	-4510.72	-5000.00 - 3000.00
Arm Gain	0.0005135	0.0005258	0.000300 - 0.000700
Arm Power	-0.000005109	-0.000005867	-0.000010000 - 0.000010000
The ring diameter is computed from: DIAMETER = PAD EXTENSION + ARM EXTENSION + TOOL DIAMETER			
Tool Diameter: 4.50 in			
CALIBRATION RINGS			
Measurement	Current Reading (Previous Coeff.)	Calibrated (New Coeff.)	Change Control Limit On New Value
PAD EXTENSION:			
Small Ring (in)	2.00	2.00	0.00 +/- 0.20
Medium Ring (in)	3.77	3.75	-0.02 +/- 0.20
RING DIAMETER:			
Small Ring (in)	6.51	6.50	-0.01 +/- 0.20
Medium Ring (in)	8.23	8.25	0.02 +/- 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 - 10673803	Reference Calibration Date:	12-Mar-13 13:18:16
Engineer:	S. INGERSOLL	Calibration Date:	27-Mar-13 23:38:49

MEASURED CALIPER VALUES				
Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.76	0.01	+/- 0.10
Ring Diameter	8.25	8.34	0.09	+/- 0.15

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

SPECTRAL DENSITY SHOP CALIBRATION

Tool Name: SDLT Pad - 10673790

Reference Calibration Date: 23-Feb-13 10:46:34

Engineer: S. INGERSOLL

Calibration Date: 08-Mar-13 10:59:51

Software Version: WL INSITE R3.8.4 (Build 5)

Calibration Version: 1

Logging Source S/N: 5073GW

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	1.0285	1.0454	0.90 - 1.10
Near Dens Gain	1.0170	1.0294	0.90 - 1.10
Near Peak Gain	0.9801	1.0365	0.90 - 1.10
Near Lith Gain	0.9508	1.0200	0.90 - 1.10
Far Bar Gain	1.0147	1.0122	0.90 - 1.10
Far Dens Gain	1.0028	0.9984	0.90 - 1.10
Far Peak Gain	0.9907	0.9923	0.90 - 1.10
Far Lith Gain	0.9605	0.9628	0.90 - 1.10
Near Bar Offset	-0.0144	-0.1593	NONE
Near Dens Offset	0.0948	-0.0054	NONE
Near Peak Offset	0.4185	-0.0399	NONE
Near Lith Offset	0.6513	0.0863	NONE
Far Bar Offset	0.0418	0.0668	NONE
Far Dens Offset	0.1208	0.1592	NONE
Far Peak Offset	0.1906	0.1733	NONE
Far Lith Offset	0.3645	0.3389	NONE
Near Bar Background	867.88	865.49	700 - 1450
Near Dens Background	283.44	284.22	230 - 480
Near Peak Background	125.35	124.49	100 - 210
Near Lith Background	155.64	154.41	125 - 260
Far Bar Background	584.38	581.01	450 - 900
Far Dens Background	228.93	229.46	175 - 345
Far Peak Background	91.64	91.16	70 - 140
Far Lith Background	95.52	95.46	75 - 145

CALIBRATION BLOCK SUMMARY				
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.671	1.684	0.013	+/- 0.015

Pe	2.576	2.557	-0.019	+/- 0.150
ALUMINUM				
Density (g/cc)	2.592	2.598	0.006	+/- 0.01500
Pe	3.056	3.126	0.070	+/- 0.150
TOOL SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	-0.0008	+/- 0.0110	-0.0005	+/- 0.0140
Magnesium Block	0.0003	+/- 0.0110	-0.0030	+/- 0.0140
Aluminum Block	0.0008	+/- 0.0110	0.0005	+/- 0.0140
Resolution	8.72	6.00 - 11.50	8.98	6.00 - 11.50
Internal Verifier(B+D+P+L)	1429	1200 - 2700	997	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 - 10673790		Reference Calibration Date:	08-Mar-13 10:59:51
Engineer:	S. INGERSOLL		Calibration Date:	27-Mar-13 23:42:23
Software Version:	WL INSITE R3.8.4 (Build 5)		Calibration Version:	1

Pad Temperature: 71.7 degF

DENSITY FIELD CALIBRATION SUMMARY				
Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1428.606	1429.271	0.665	15.254
Far (B+D+P+L) cps	997.097	991.354	-5.743	16.908
Near Resolution	8.72	8.71	-0.010	0.50
Far Resolution	8.98	9.12	0.140	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-10748374						
Gamma Ray Calibrator	232.0	229.5	-----	2.5	+/- 9.00	api
DSNT-10735145						
Snow-Block Porosity	0.0540	0.0671	-----	-0.0131	+/- 0.0150	decp
SDLT-10673803						
Pad Extension	3.75	3.76	-----	-0.01	+/-0.10	in

Ring Diameter	8.25	8.34	-----	-0.09	+/-0.15	in
SDLT Pad-10673790						
Near(B+D+P+L)	1428.606	1429.271	-----	-0.665	+/-15.254	cps
Far(B+D+P+L)	997.097	991.354	-----	5.743	+/-16.908	cps
Data: PRENTICE A-110002 SP-GTET-DSN-SDI -FLEX-BSAT-ACRT-BN005 28-Mar-13 10:38 Un @4947.8f				Date: 28-Mar-13 12:07:29		
HALLIBURTON						
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			72.01	NO	
SP	Spontaneous Potential			72.01	BLK	1.250
SPR	Raw Spontaneous Potential			72.01	NO	
SPO	Spontaneous Potential Offset			72.01	NO	
GTET						
TPUL	Tension Pull			63.99	NO	
GR	Natural Gamma Ray API			63.99	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API			63.99	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution			63.99	W	1.416 , 0.750
ACCZ	Accelerometer Z			0.00	BLK	0.083
DEVI	Inclination			0.00	NO	
DSNT						
TPUL	Tension Pull			53.74	NO	
RNDS	Near Detector Telemetry Counts			53.84	BLK	1.417
RFDS	Far Detector Telemetry Counts			54.59	TRI	0.583
DNTT	DSN Tool Temperature			53.84	NO	
DSNS	DSN Tool Status			53.74	NO	
ERND	Near Detector Telemetry Counts EVR			53.84	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR			54.59	BLK	0.000
ENTM	DSN Tool Temperature EVR			53.84	NO	
SDLT						
TPUL	Tension Pull			43.84	NO	
PCAL	Pad Caliper			43.84	TRI	0.250
ACAL	Arm Caliper			43.84	TRI	0.250
BSAT						
TPUL	Tension Pull			26.84	NO	
STAT	Status			26.84	NO	
DLYT	Delay Time			26.84	NO	
SI	Sample Interval			26.84	NO	
TXRX	Raw Telemetry 10 Receivers			26.84	NO	
FRMC	Tool Frame Count			26.84	NO	
GMOD	Gain processing mode			19.58	NO	
ACRt Sonde						
TPUL	Tension Pull			2.73	NO	
F1R1	ACRT 12KHz - 80in R value			8.98	BLK	0.000
F1X1	ACRT 12KHz - 80in X value			8.98	BLK	0.000
F1D2	ACRT 12KHz - 50in D value			8.48	BLK	0.000

F1R2	ACRT 12KHz - 50in R value	6.48	BLK	0.000
F1X2	ACRT 12KHz - 50in X value	6.48	BLK	0.000
F1R3	ACRT 12KHz - 29in R value	4.98	BLK	0.000
F1X3	ACRT 12KHz - 29in X value	4.98	BLK	0.000
F1R4	ACRT 12KHz - 17in R value	3.98	BLK	0.000
F1X4	ACRT 12KHz - 17in X value	3.98	BLK	0.000
F1R5	ACRT 12KHz - 10in R value	3.48	BLK	0.000
F1X5	ACRT 12KHz - 10in X value	3.48	BLK	0.000
F1R6	ACRT 12KHz - 6in R value	3.23	BLK	0.000
F1X6	ACRT 12KHz - 6in X value	3.23	BLK	0.000
F2R1	ACRT 36KHz - 80in R value	8.98	BLK	0.000
F2X1	ACRT 36KHz - 80in X value	8.98	BLK	0.000
F2R2	ACRT 36KHz - 50in R value	6.48	BLK	0.000
F2X2	ACRT 36KHz - 50in X value	6.48	BLK	0.000
F2R3	ACRT 36KHz - 29in R value	4.98	BLK	0.000
F2X3	ACRT 36KHz - 29in X value	4.98	BLK	0.000
F2R4	ACRT 36KHz - 17in R value	3.98	BLK	0.000
F2X4	ACRT 36KHz - 17in X value	3.98	BLK	0.000
F2R5	ACRT 36KHz - 10in R value	3.48	BLK	0.000
F2X5	ACRT 36KHz - 10in X value	3.48	BLK	0.000
F2R6	ACRT 36KHz - 6in R value	3.23	BLK	0.000
F2X6	ACRT 36KHz - 6in X value	3.23	BLK	0.000
F3R1	ACRT 72KHz - 80in R value	8.98	BLK	0.000
F3X1	ACRT 72KHz - 80in X value	8.98	BLK	0.000
F3R2	ACRT 72KHz - 50in R value	6.48	BLK	0.000
F3X2	ACRT 72KHz - 50in X value	6.48	BLK	0.000
F3R3	ACRT 72KHz - 29in R value	4.98	BLK	0.000
F3X3	ACRT 72KHz - 29in X value	4.98	BLK	0.000
F3R4	ACRT 72KHz - 17in R value	3.98	BLK	0.000
F3X4	ACRT 72KHz - 17in X value	3.98	BLK	0.000
F3R5	ACRT 72KHz - 10in R value	3.48	BLK	0.000
F3X5	ACRT 72KHz - 10in X value	3.48	BLK	0.000
F3R6	ACRT 72KHz - 6in R value	3.23	BLK	0.000
F3X6	ACRT 72KHz - 6in X value	3.23	BLK	0.000
RMUD	Mud Resistivity	12.52	BLK	0.000
F1RT	Transmitter Current Raw 12K X Receiver	2.73	BLK	0.000
F1XT	Transmitter Reference 12 KHz Imaginary Signal	2.73	BLK	0.000
F2RT	Transmitter Reference 36 KHz Real Signal	2.73	BLK	0.000
F2XT	Transmitter Reference 36 KHz Imaginary Signal	2.73	BLK	0.000
F3RT	Transmitter Reference 72 KHz Real Signal	2.73	BLK	0.000
F3XT	Transmitter Reference 72 KHz Imaginary Signal	2.73	BLK	0.000
TFPU	Upper Feedpipe Temperature Calculated	2.73	BLK	0.000
TFPL	Lower Feedpipe Temperature Calculated	2.73	BLK	0.000
ITMP	Instrument Temperature	2.73	BLK	0.000
TCVA	Temperature Correction Values Loop Off	2.73	NO	
TIDV	Instrument Temperature Derivative	2.73	NO	
TUDV	Upper Temperature Derivative	2.73	NO	
TLDV	Lower Temperature Derivative	2.73	NO	
TRBD	Receiver Board Temperature	2.73	NO	
SDLT Pad				
TPUL	Tension Pull	43.83	NO	
NAB	Near Above	43.66	BLK	0.920
NHI	Near Cesium High	43.66	BLK	0.920
NLO	Near Cesium Low	43.66	BLK	0.920
NVA	Near Valley	43.66	BLK	0.920

NBA	Near Barite	43.66	BLK	0.920
NDE	Near Density	43.66	BLK	0.920
NPK	Near Peak	43.66	BLK	0.920
NLI	Near Lithology	43.66	BLK	0.920
NBAU	Near Barite Unfiltered	43.66	BLK	0.250
NLIU	Near Lithology Unfiltered	43.66	BLK	0.250
FAB	Far Above	44.01	BLK	0.250
FHI	Far Cesium High	44.01	BLK	0.250
FLO	Far Cesium Low	44.01	BLK	0.250
FVA	Far Valley	44.01	BLK	0.250
FBA	Far Barite	44.01	BLK	0.250
FDE	Far Density	44.01	BLK	0.250
FPK	Far Peak	44.01	BLK	0.250
FLI	Far Lithology	44.01	BLK	0.250
PTMP	Pad Temperature	43.84	BLK	0.920
NHV	Near Detector High Voltage	43.24	NO	
FHV	Far Detector High Voltage	43.24	NO	
ITMP	Instrument Temperature	43.24	NO	
DDHV	Detector High Voltage	43.24	NO	

Microlog Pad				
TPUL	Tension Pull	44.03	NO	
MINV	Microlog Lateral	44.03	BLK	0.750
MNOR	Microlog Normal	44.03	BLK	0.750
Data: PRENTICE_A-1\0002 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BN\005 28-Mar-13 10:38 Up @4947.8f			Date: 28-Mar-13 12:05:58	

COMPANY	OXY USA		
WELL	PRENTICE A-1		
FIELD	HUGOTON GAS AREA		
STATE	KANSAS	COUNTRY	USA
HALLIBURTON		SPECTRAL DENSITY DUAL SPACED NEUTRON LOG	