

HALLIBURTON

SPECTRAL DENSITY DUAL SPACED NEUTRON LOG

COMPANY				BEREXCO INC.					
WELL				NEWBY 2-21					
FIELD				EVA SOUTH					
COUNTY				SCOTT					
STATE				KANSAS					
Permanent Datum		GL		Sect. 21		Twp. 18S		Rge. 31W	
Log measured from		KB		Elev. 2943.0 ft		Elev. K.B.		2955.0 ft	
Drilling measured from		KB		12.0 ft above perm. Datum		D.F.		2954.0 ft	
						G.L.		2943.0 ft	
Date		14-Mar-12							
Run No.		ONE							
Depth - Driller		4770.00 ft							
Depth - Logger		4764.0 ft							
Bottom - Logged Interval		4741.0 ft							
Top - Logged Interval		2600.0 ft							
Casing - Driller		8.626 in @ 427.0 ft							
Casing - Logger		449.0 ft							
Bit Size		7.875 in							
Type Fluid in Hole		WATER BASED MUD							
Density		9.4 ppg		50.00 s/qt					
PH		10.00 pH		8.0 cp/m					
Source of Sample		FLOWLINE							
Rm @ Meas. Temperature		0.660 ohmm @ 75.00 degF							
Rmf @ Meas. Temperature		0.89 ohmm @ 40.00 degF							
Rmc @ Meas. Temperature		1.450 ohmm @ 40.00 degF							
Source Rmf		MEASURED		MEASURED					
Rm @ BHT		0.43 ohmm @ 118.0 degF							
Time Since Circulation		2.0 hr							
Time on Bottom		14-Mar-12 04:08							
Max. Rec. Temperature		118.0 degF @ 4764.0 ft							
Equipment		10782954		LIBERAL					
Recorded By		J. BOLLOM							
Witnessed By		P. WILSON							

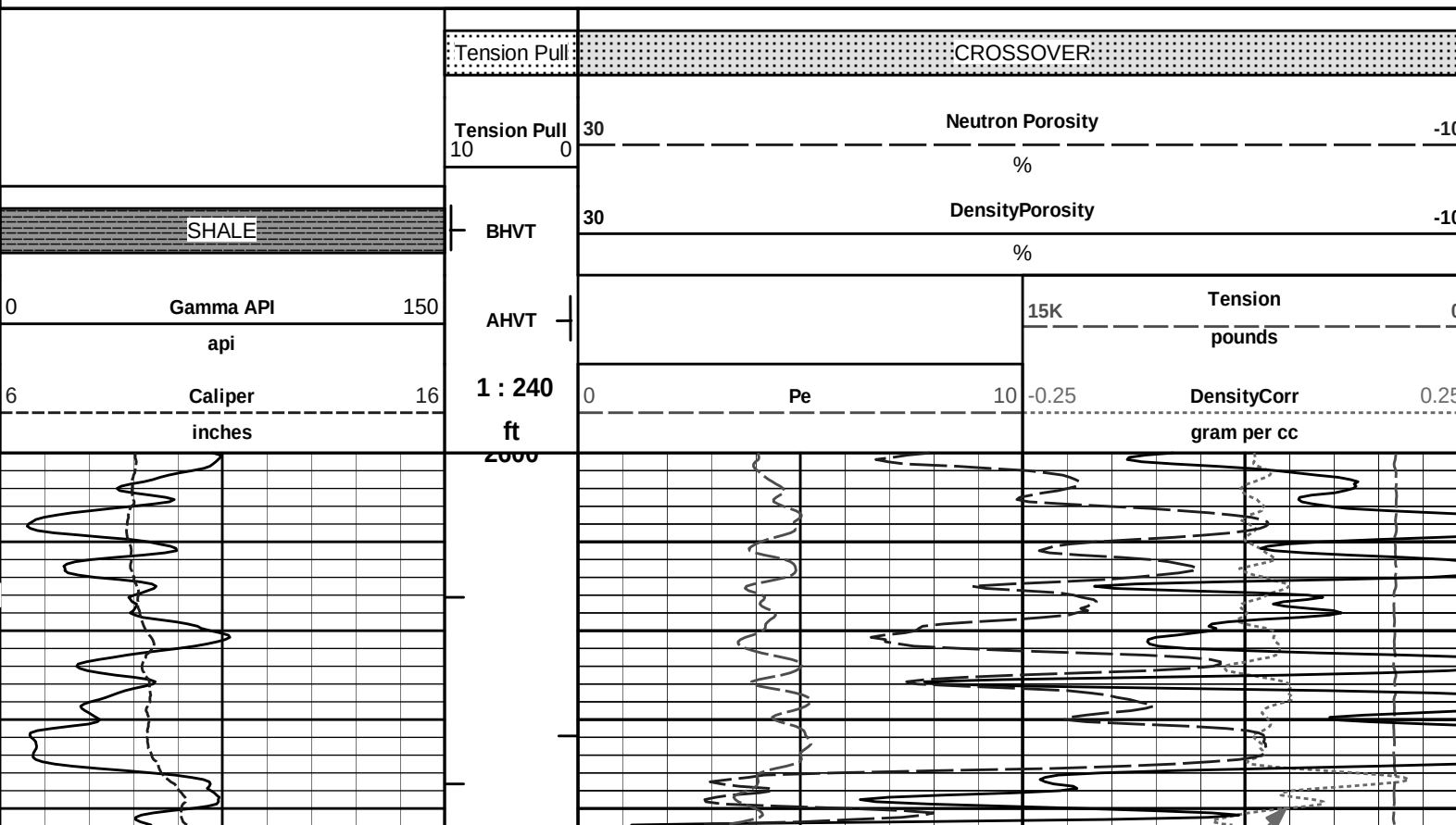
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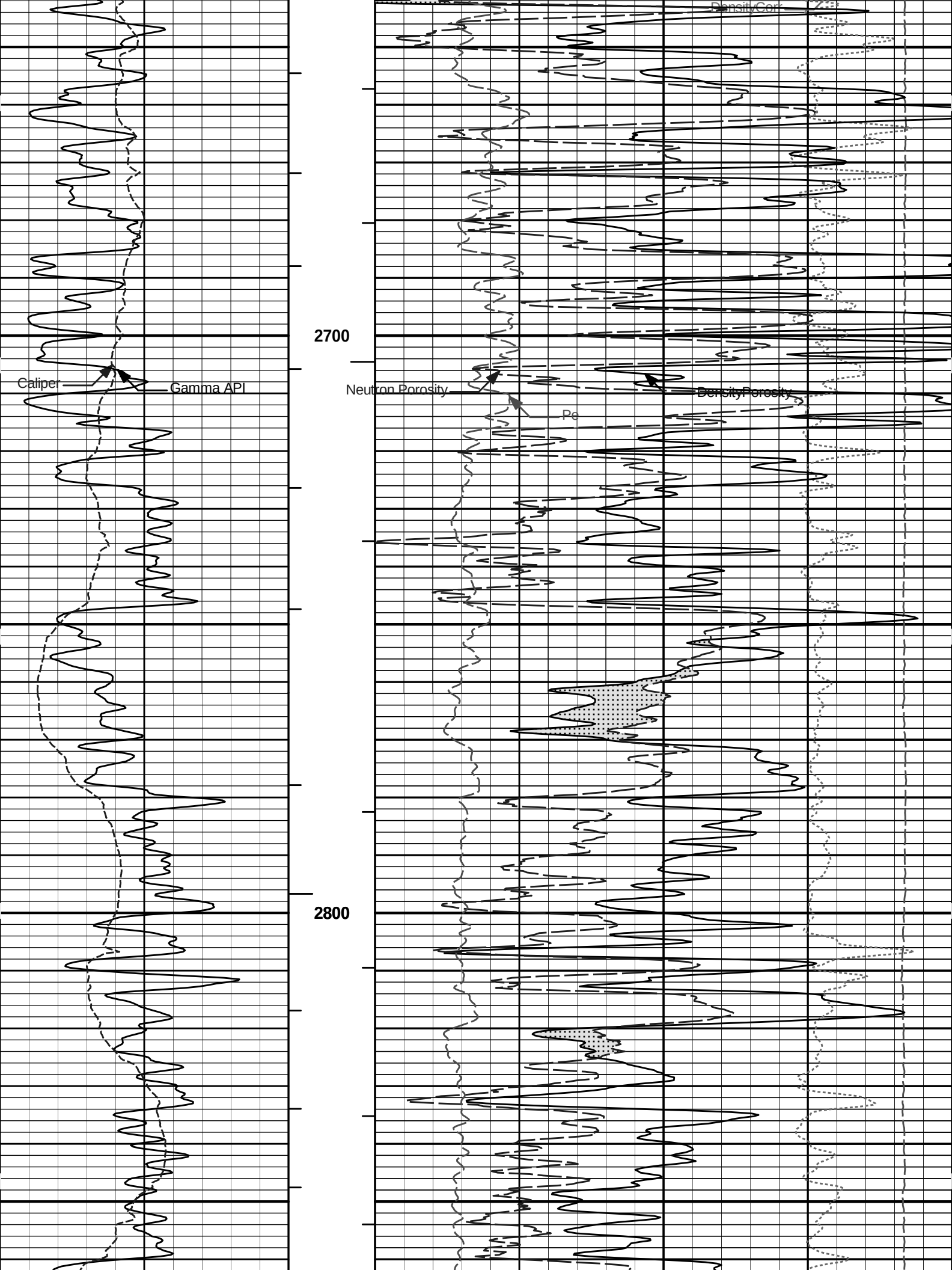
Service Ticket No.: 9338910				API Serial No.: 15-171-20866				PGM Version: WL INSITE R3.4.2 (Build 2)											
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE						RESISTIVITY SCALE CHANGES													
Date	Sample No.					Type Log	Depth	Scale Up Hole	Scale Down Hole										
Depth-Driller																			
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.	10811258		Serial No.		Serial No.	I145_M73803_P90		Serial No.			Serial No.	10735145							
Model No.	GTET		Model No.		Model No.	SDLT-I		Model No.			Model No.	DSNT-I							
Diameter	3.625"		No. of Cent.		Diameter	4.5"		Diameter			Diameter	3.625"							
Detector Model No.	GTET		Spacing		Log Type	GAM-GAM		Log Type			Log Type	NEU-NEU							
Type	SCINT				Source Type	CS137		Source Type			Source Type	AM241BE							
Length	8'		LSA [Y/N]		Serial No.	5073GW		Serial No.			Serial No.	DSN-436							
Distance to Source	N/A		FWDA [Y/N]		Strength	1.5 CI		Strength			Strength								
LOGGING DATA																			
GENERAL				GAMMA				ACOUSTIC				DENSITY				NEUTRON			

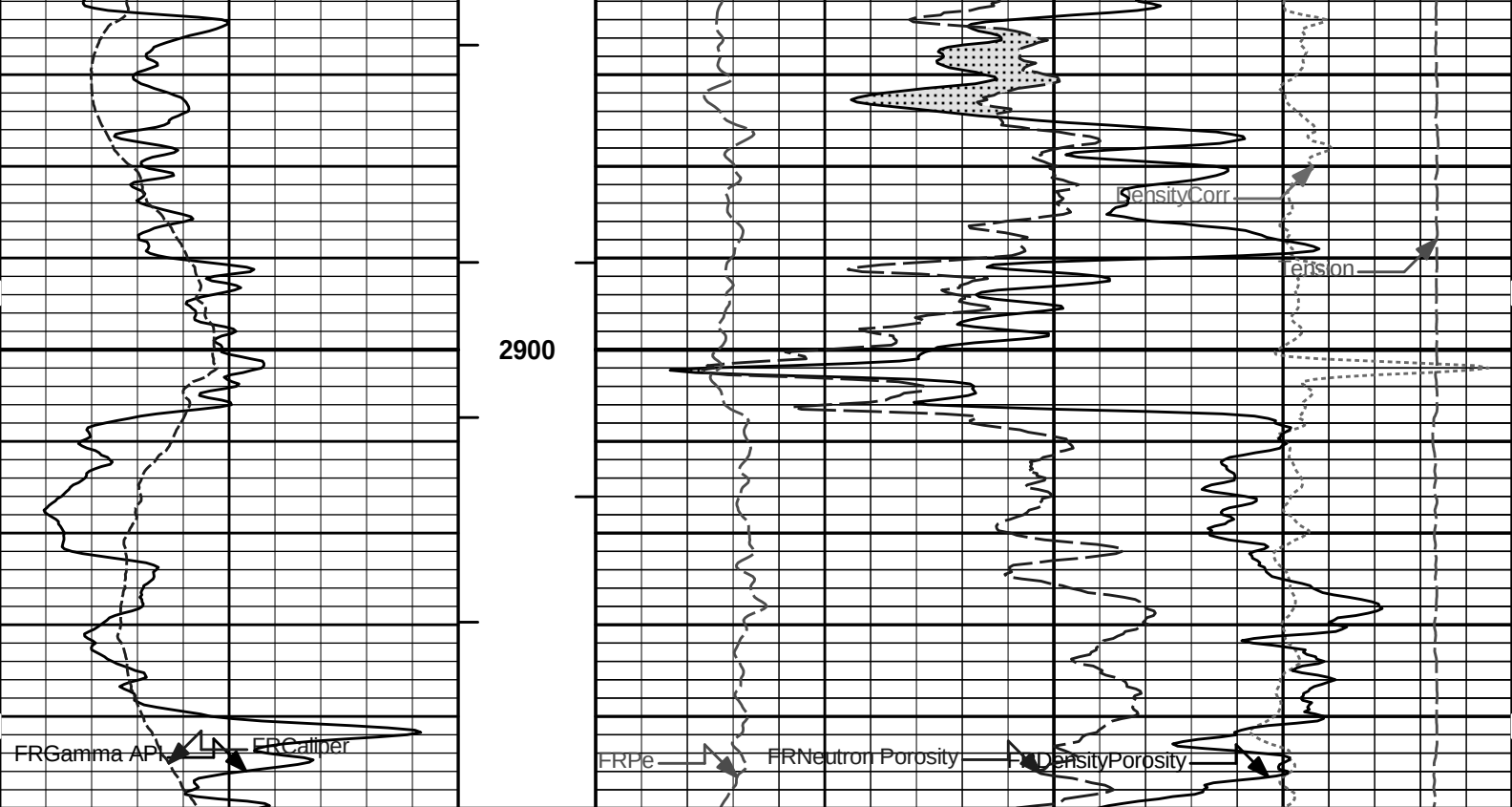
GENERAL			GAMMA		ACOUSTIC		DENSITY		NEUTRON					
Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix
No.	From	To	ft/min	L	R	L	R		L	R		L	R	
ONE	4764	3750	REC	0	150				30	-10	2.71	30	-10	LIME
ONE	2950	2600	REC	0	150				30	-10	2.71	30	-10	LIME
DIRECTIONAL INFORMATION														
Maximum Deviation @									KOP @					
Remarks: TOOL SURVEYS NOT PERFORMED DUE TO TEMPERATURE														
LCM REPORTED AT 4 LB/BBL														
CHLORIDES REPORTED AT 1800 PPM														
ANNULAR HOLE VOLUME CALCULATED FOR 5.5-INCH CASING														
TODAY'S CREW: K. KING & B. TERREL														
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES LIBERAL, KS. 620-624-8123														
HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.														
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5 INCH MAIN LOG







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

HALLIBURTON

Plot Time: 14-Mar-12 07:59:04
Plot Range: 2600 ft to 2950 ft
Data: NEWBY 2-21\Well Based\DETAIL_TOP\
Plot File: \\PORO\Poros_IQ_5_MAIN_LIB

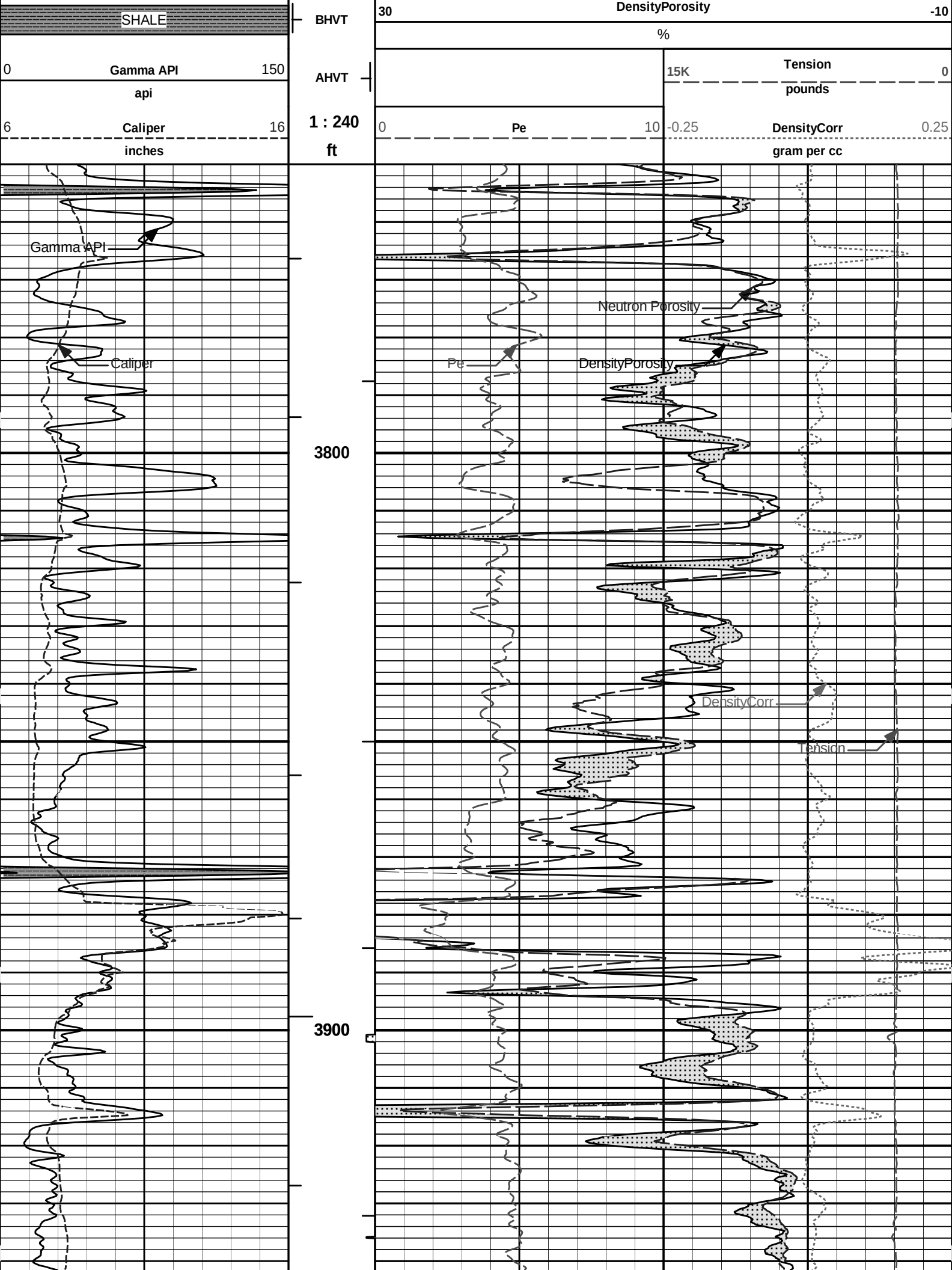
5 INCH MAIN LOG

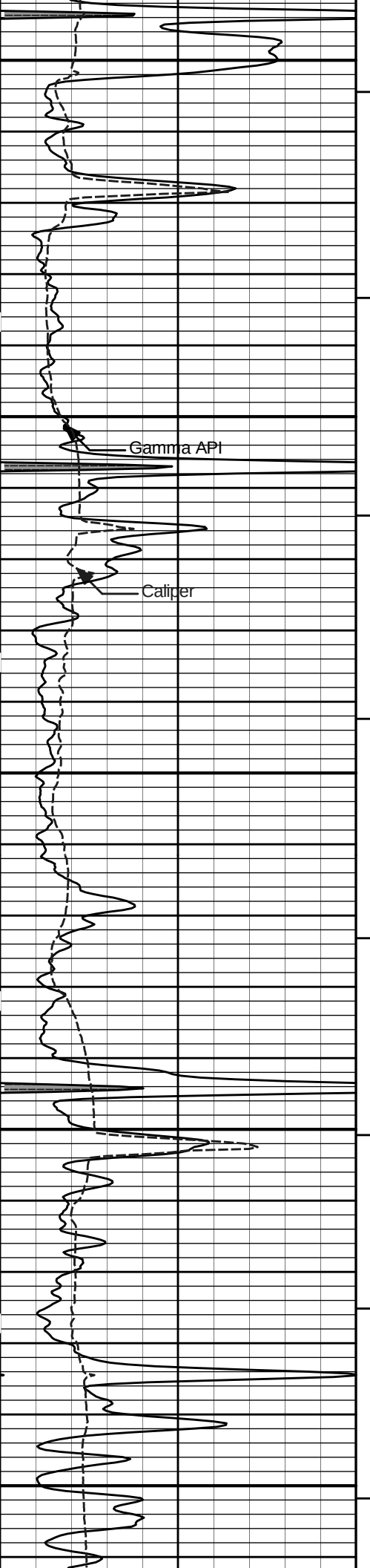
HALLIBURTON

Plot Time: 14-Mar-12 07:59:04
Plot Range: 3750 ft to 4769 ft
Data: NEWBY 2-21\Well Based\DETAIL_BOTTOM\
Plot File: \\PORO\Poros_IQ_5_MAIN_LIB

5 INCH MAIN LOG

			Tension Pull		CROSSOVER				
			Tension Pull	30	Neutron Porosity				-10
			10	0	%				



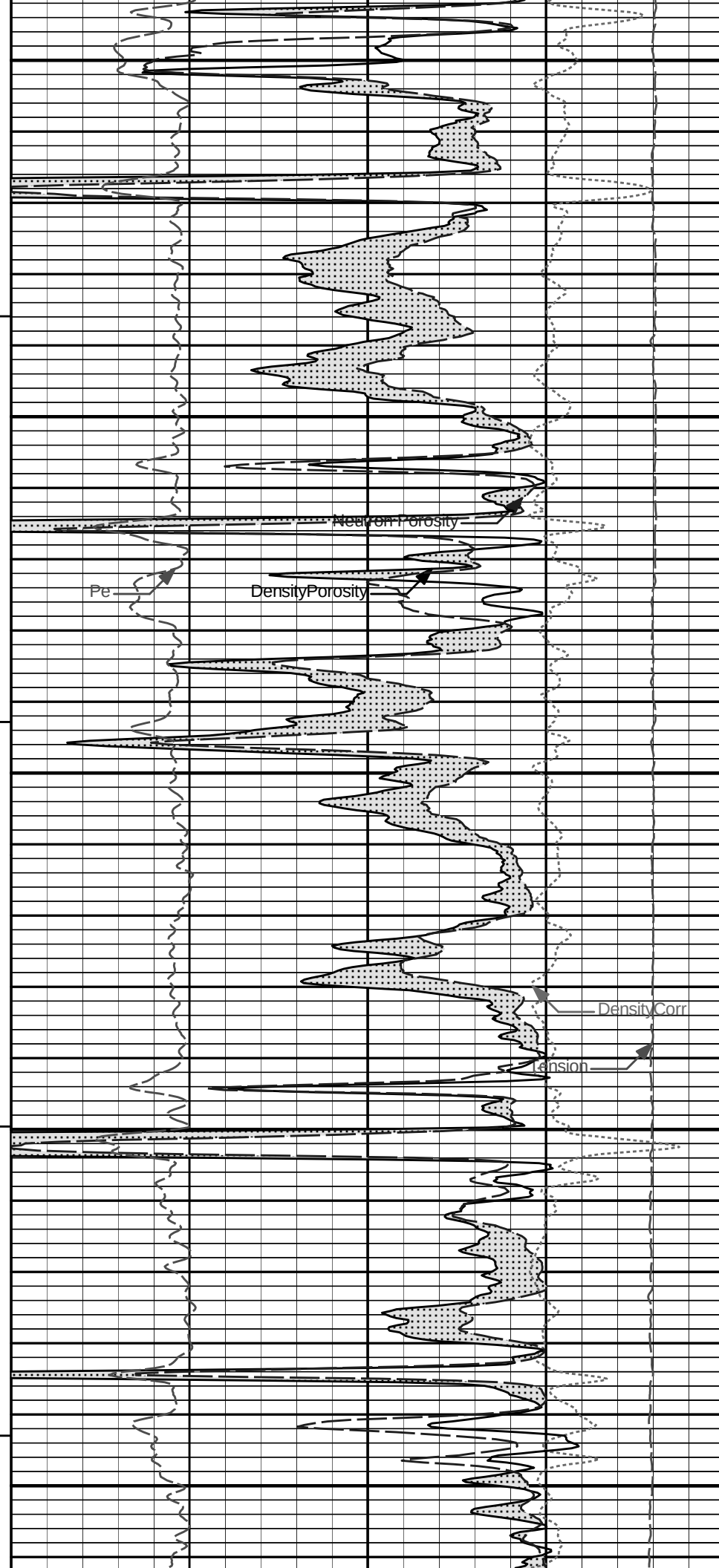


4000

Gamma API

Caliper

4100



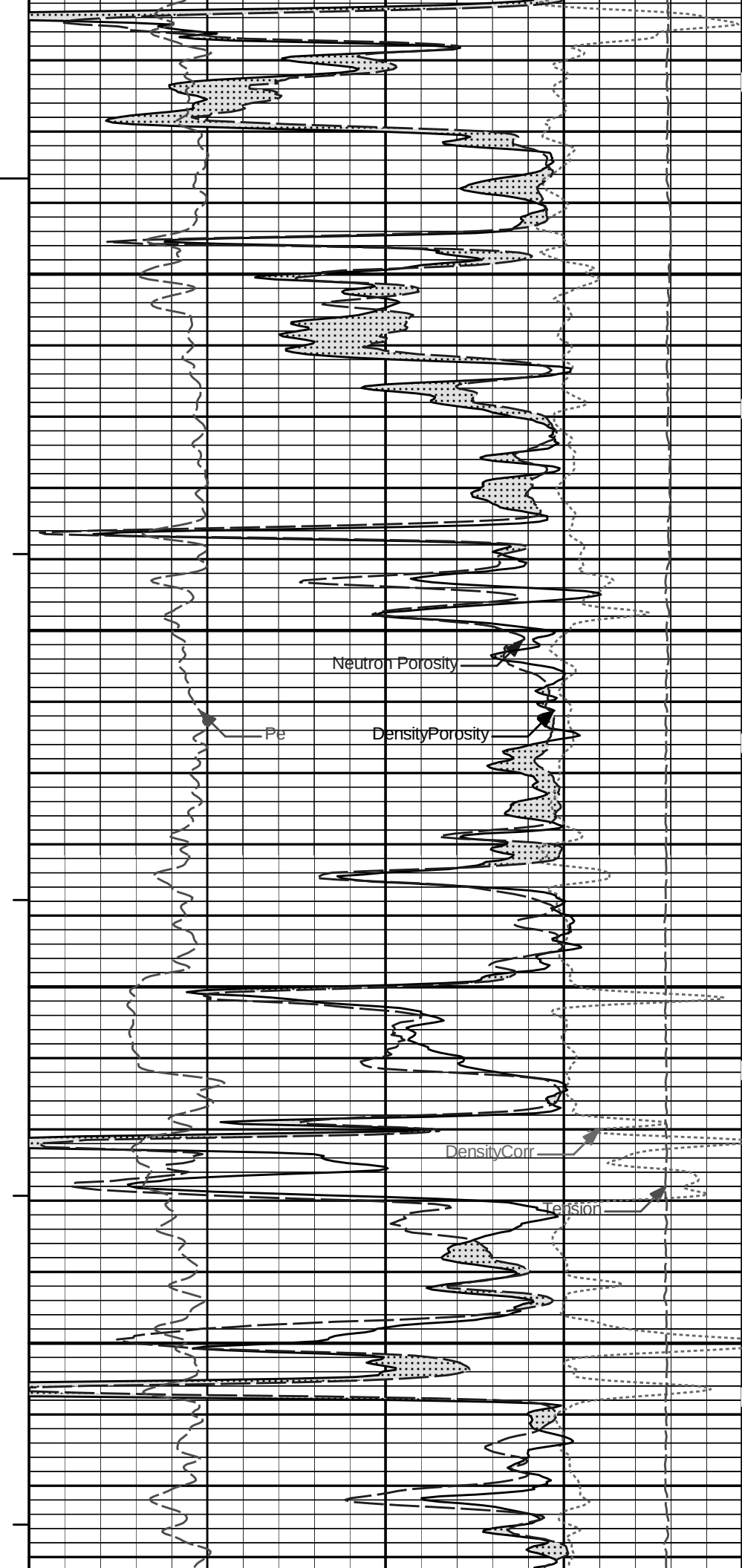
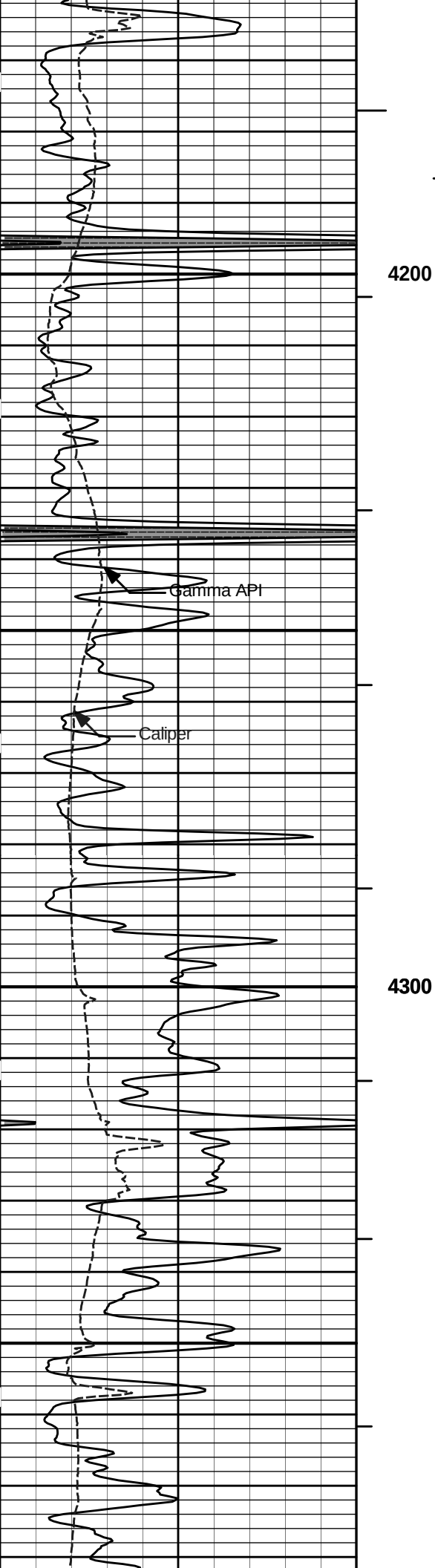
Neutron Porosity

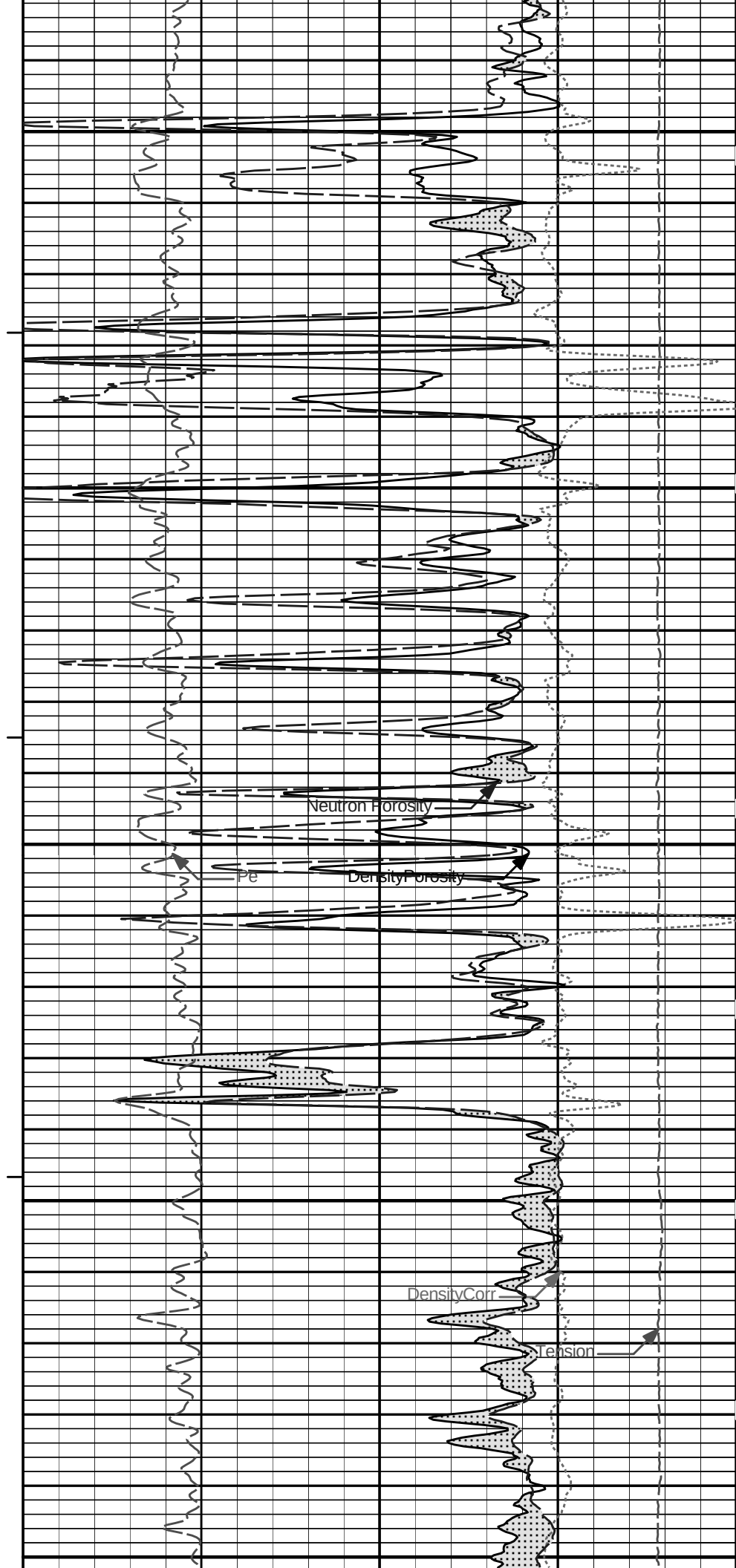
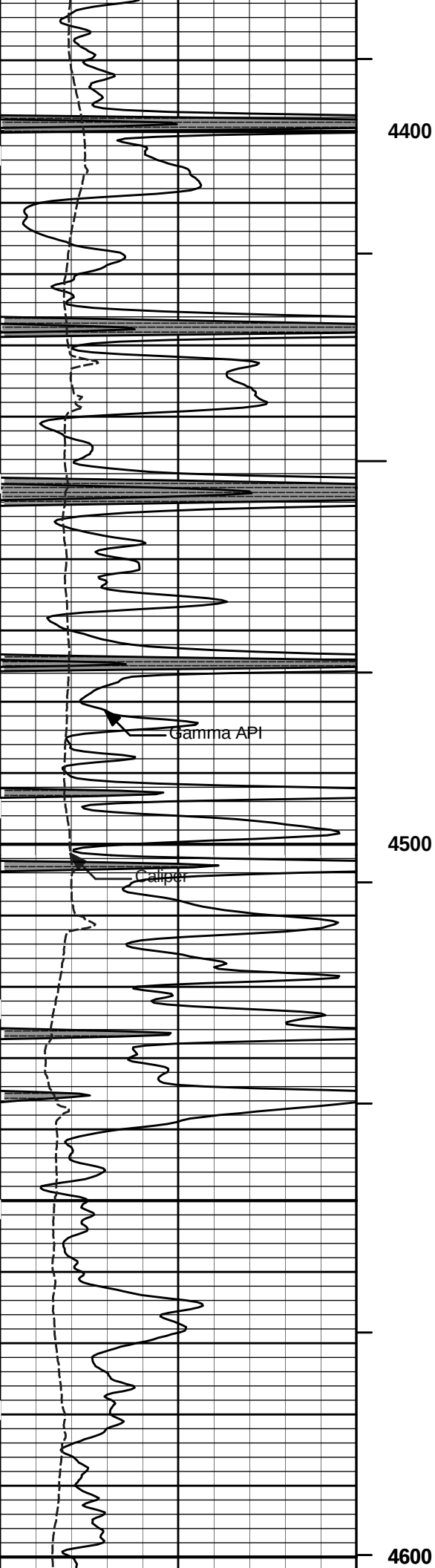
Pe

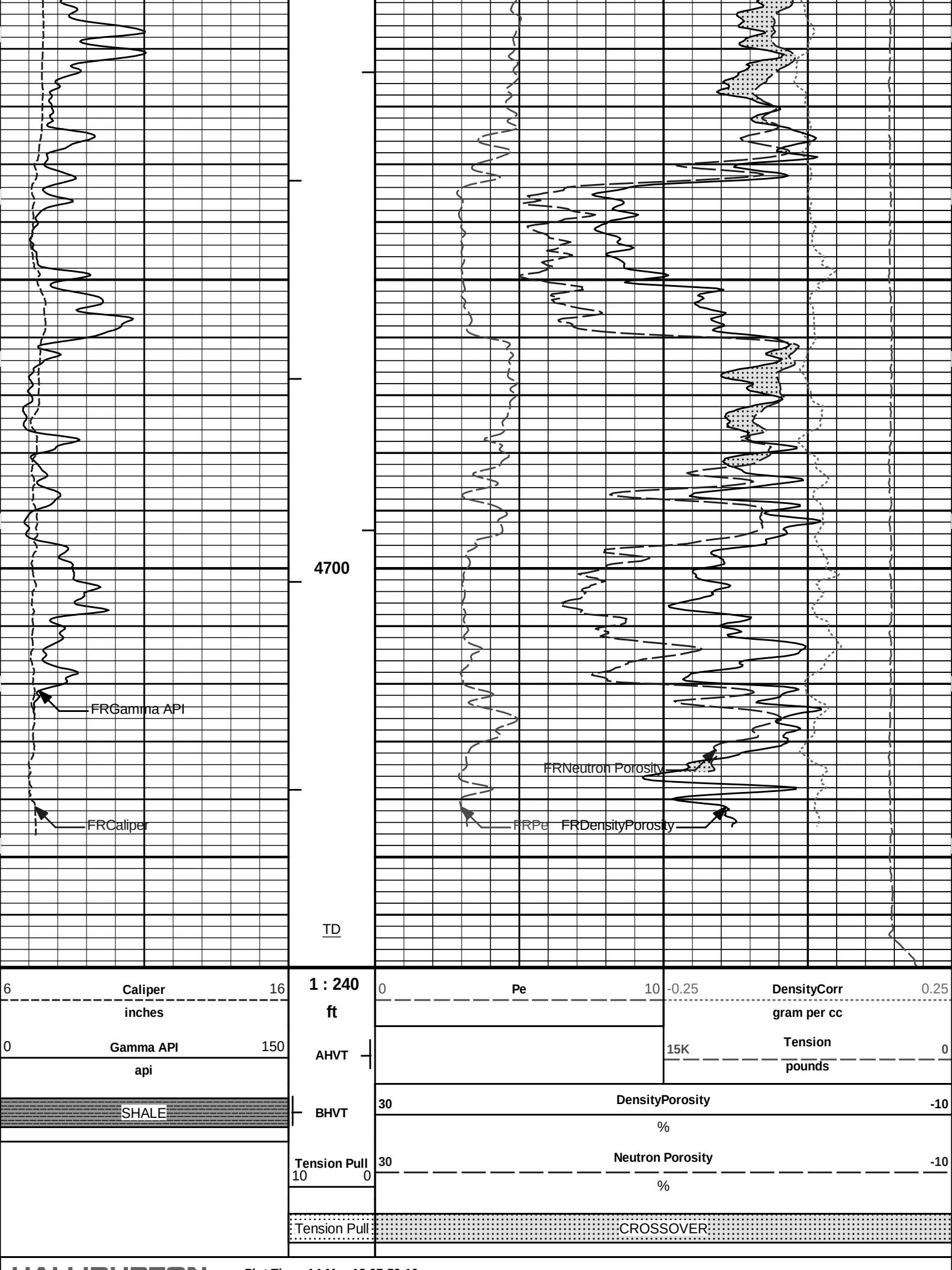
Density Porosity

Density Corr

Expansion

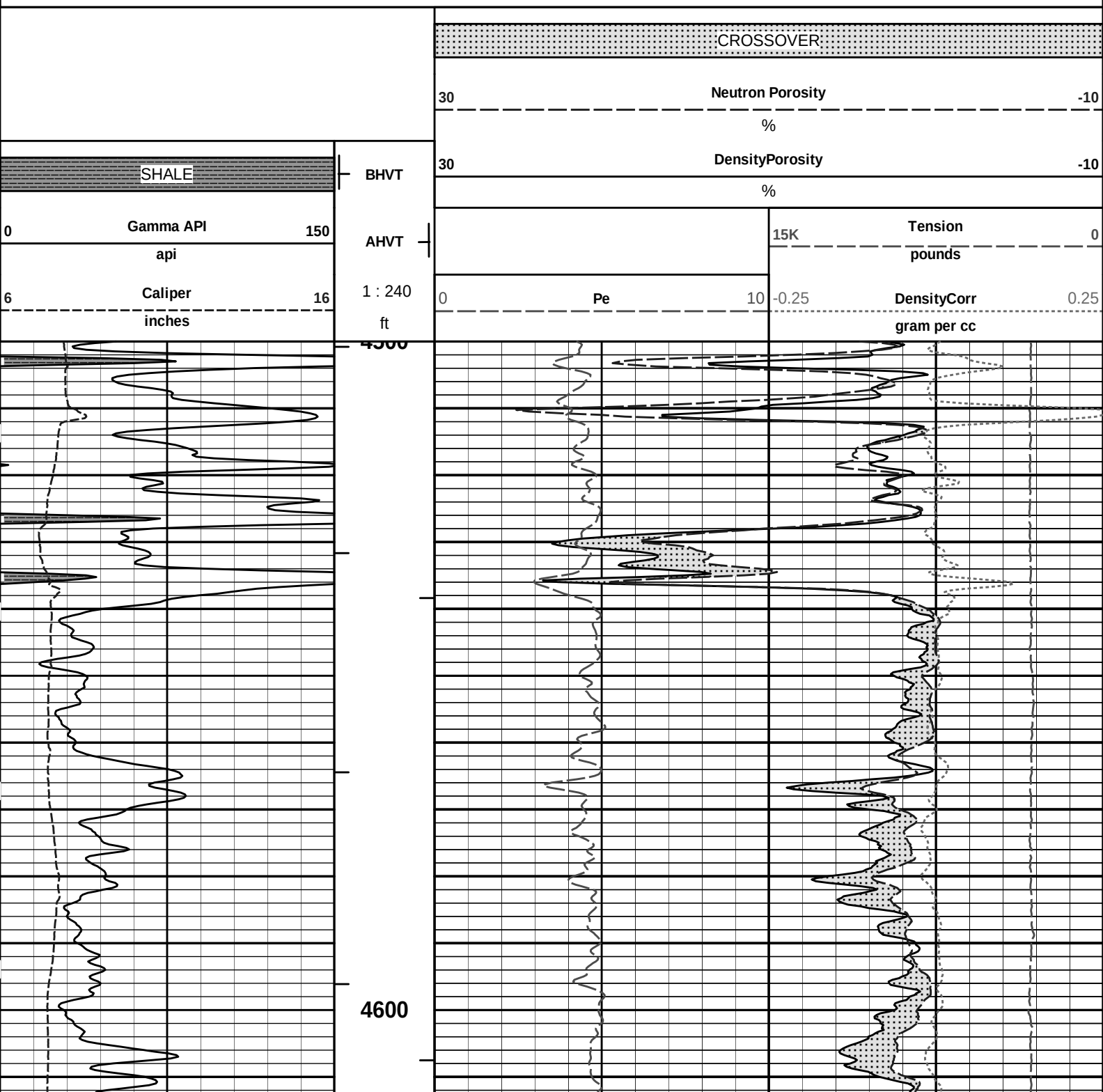


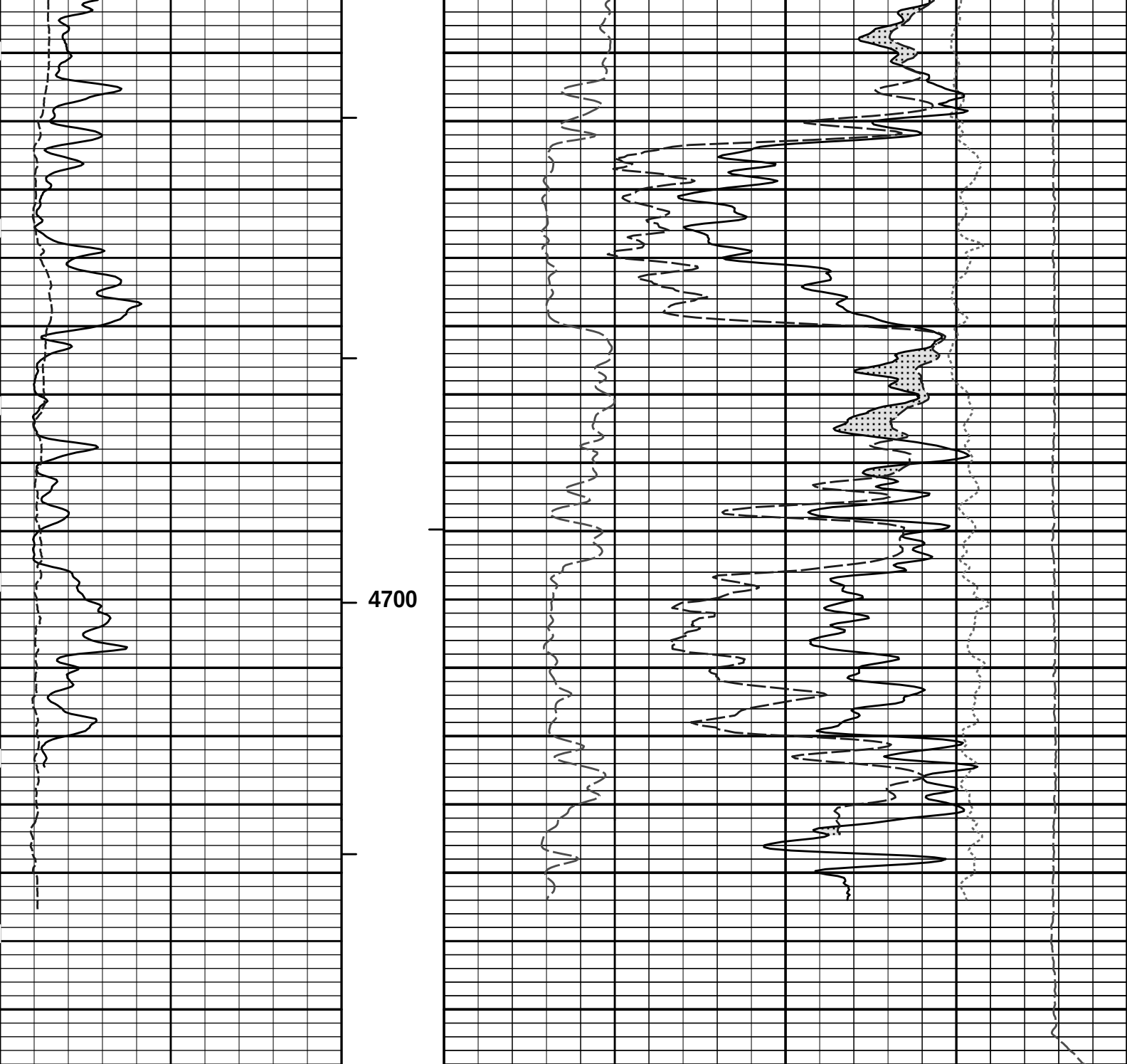




5 INCH MAIN LOG

REPEAT SECTION





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

REPEAT SECTION

HALLIBURTON

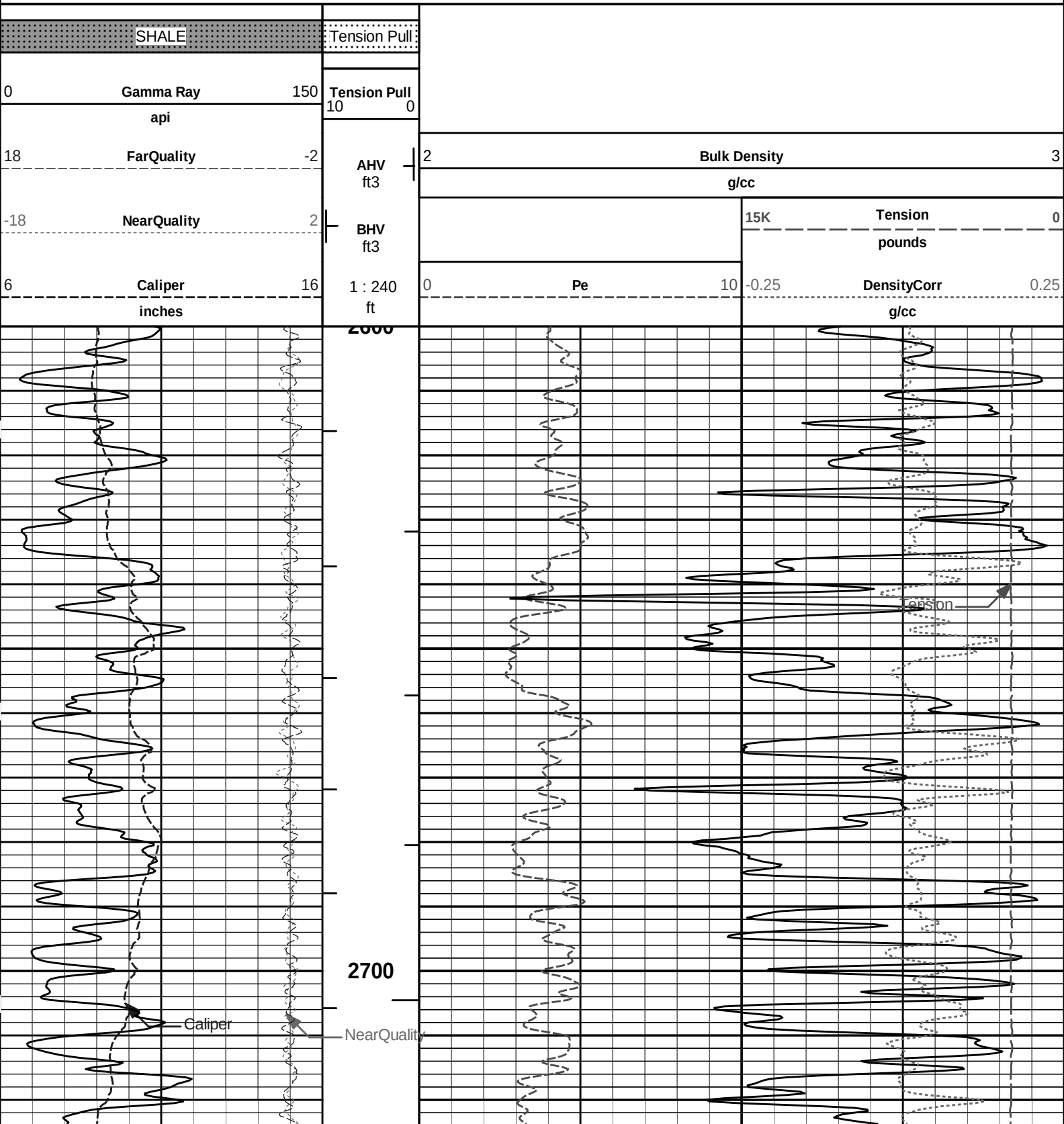
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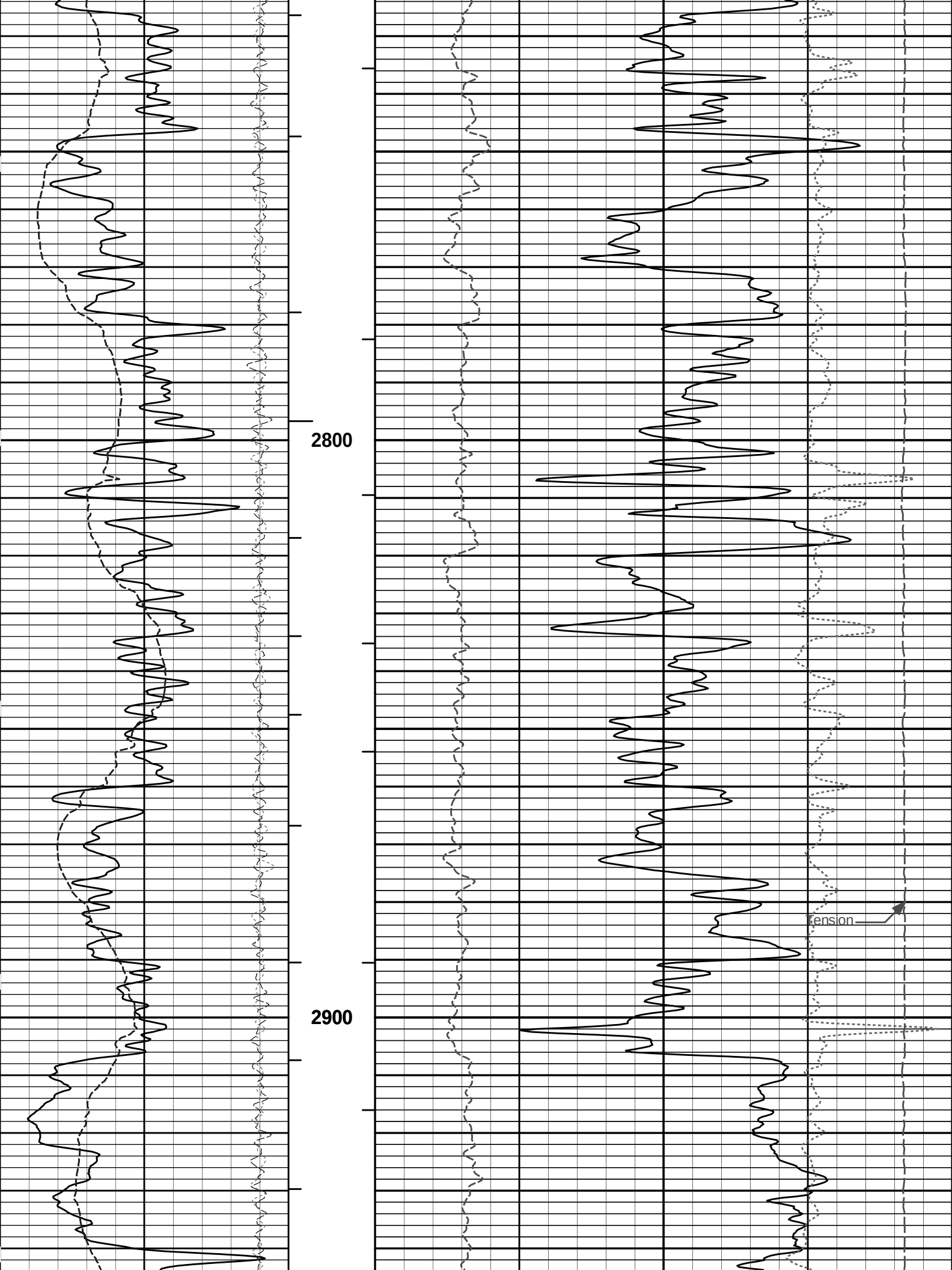
Plot Range: 2600 ft to 2950 ft

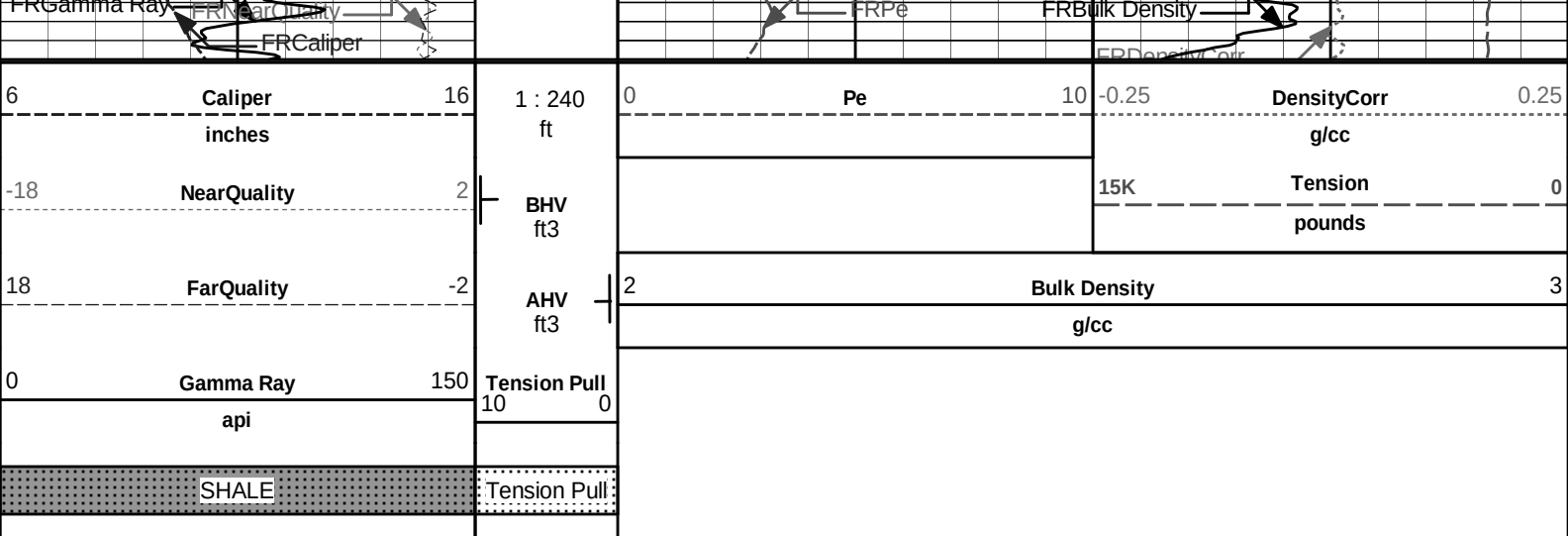
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Plot File: \\-LOCAL-\\NEWBY 2-21\\0001 SP-GTET-DSNT-SDLT-ACRT-CHIPORO\\BULKD_5_MAIN_LIB

5 INCH MAIN LOG







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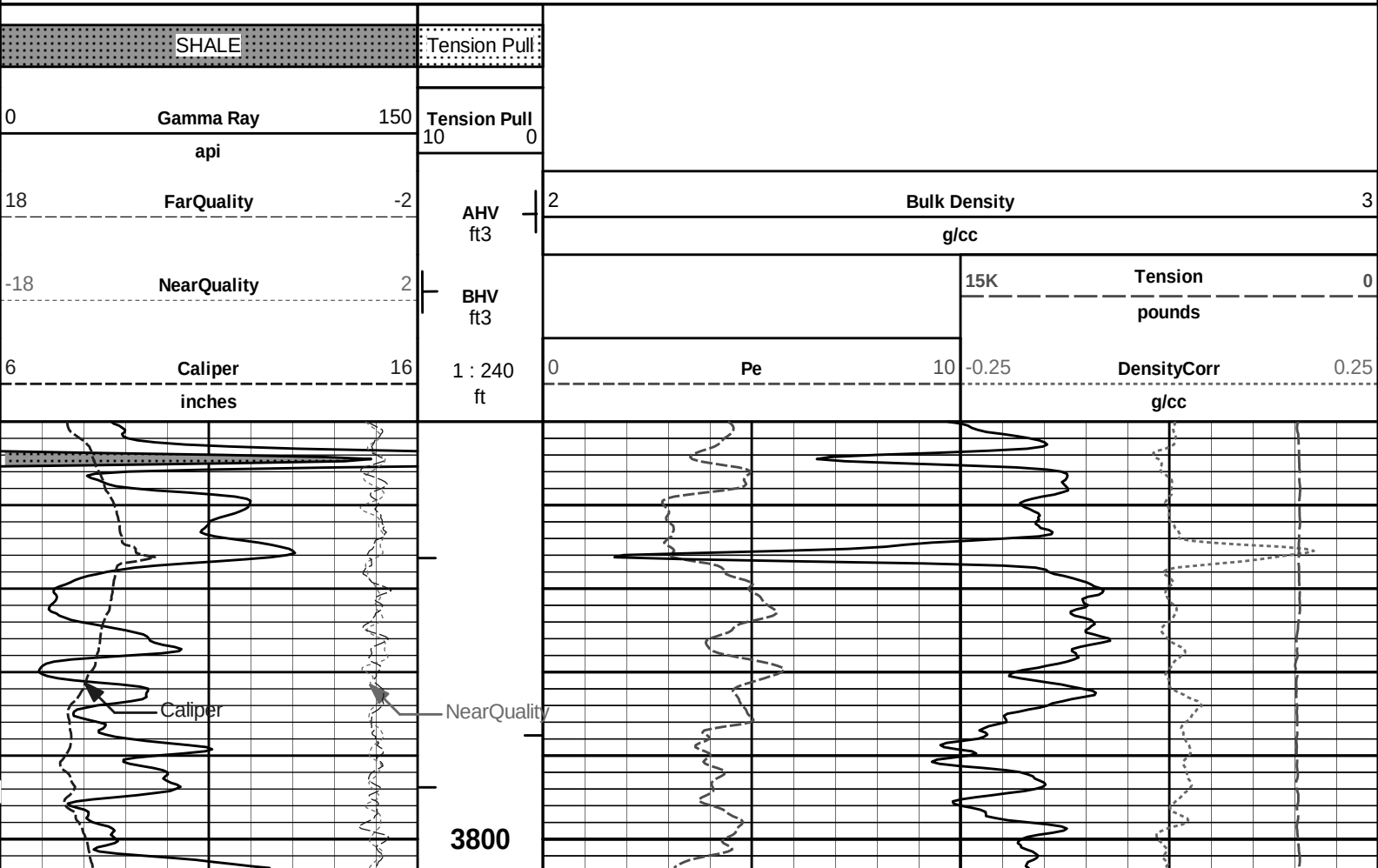
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Plot Range: 2600 ft to 2950 ft
Data: NEWBY 2-21\Well Based\DETAIL_TOP\
Plot File: \\-LOCAL-\\NEWBY 2-21\0001 SP-GTET-DSNT-SDLT-ACRT-CHIPORO\BULKD_5_MAIN_LIB

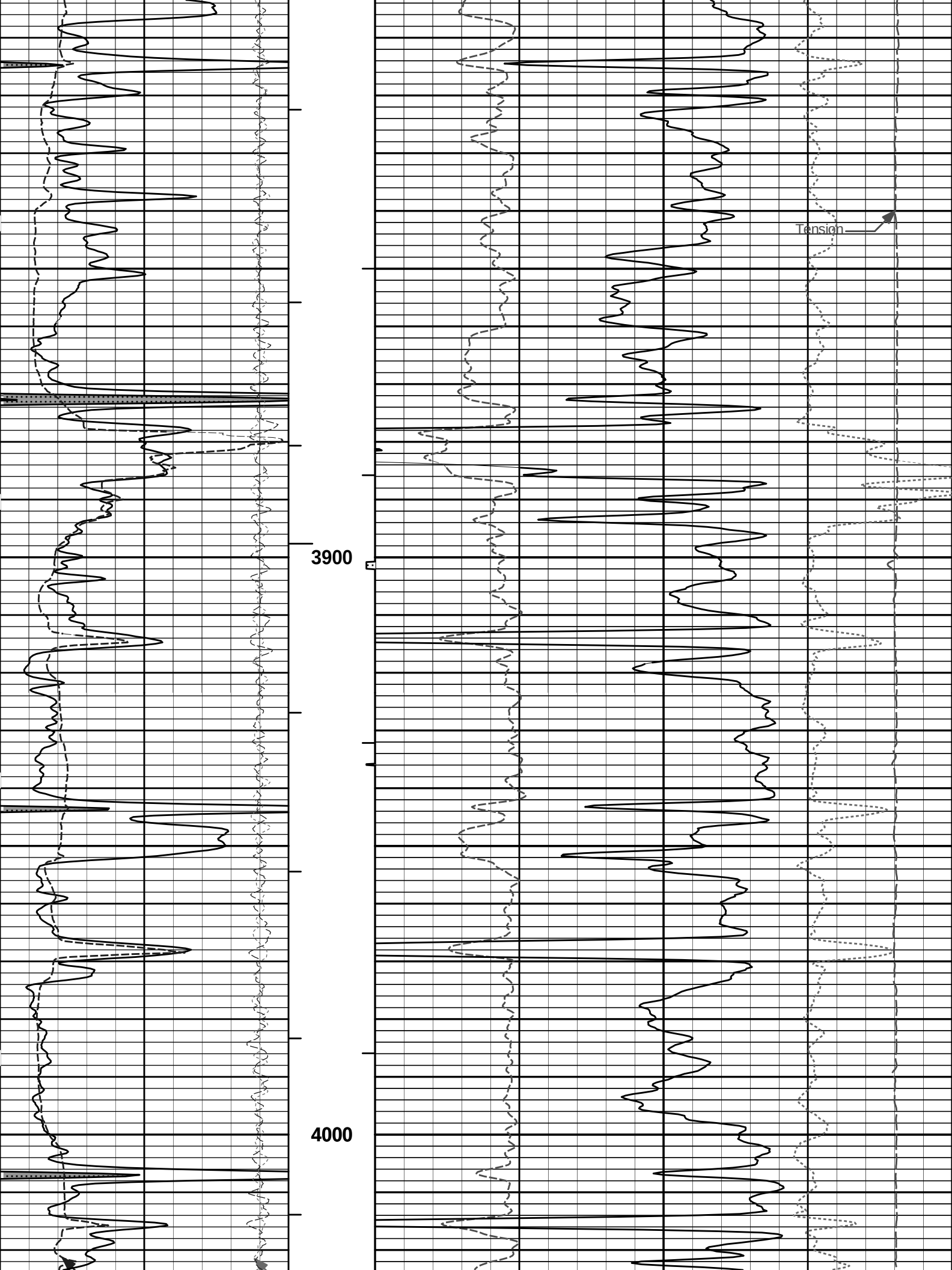
5 INCH MAIN LOG

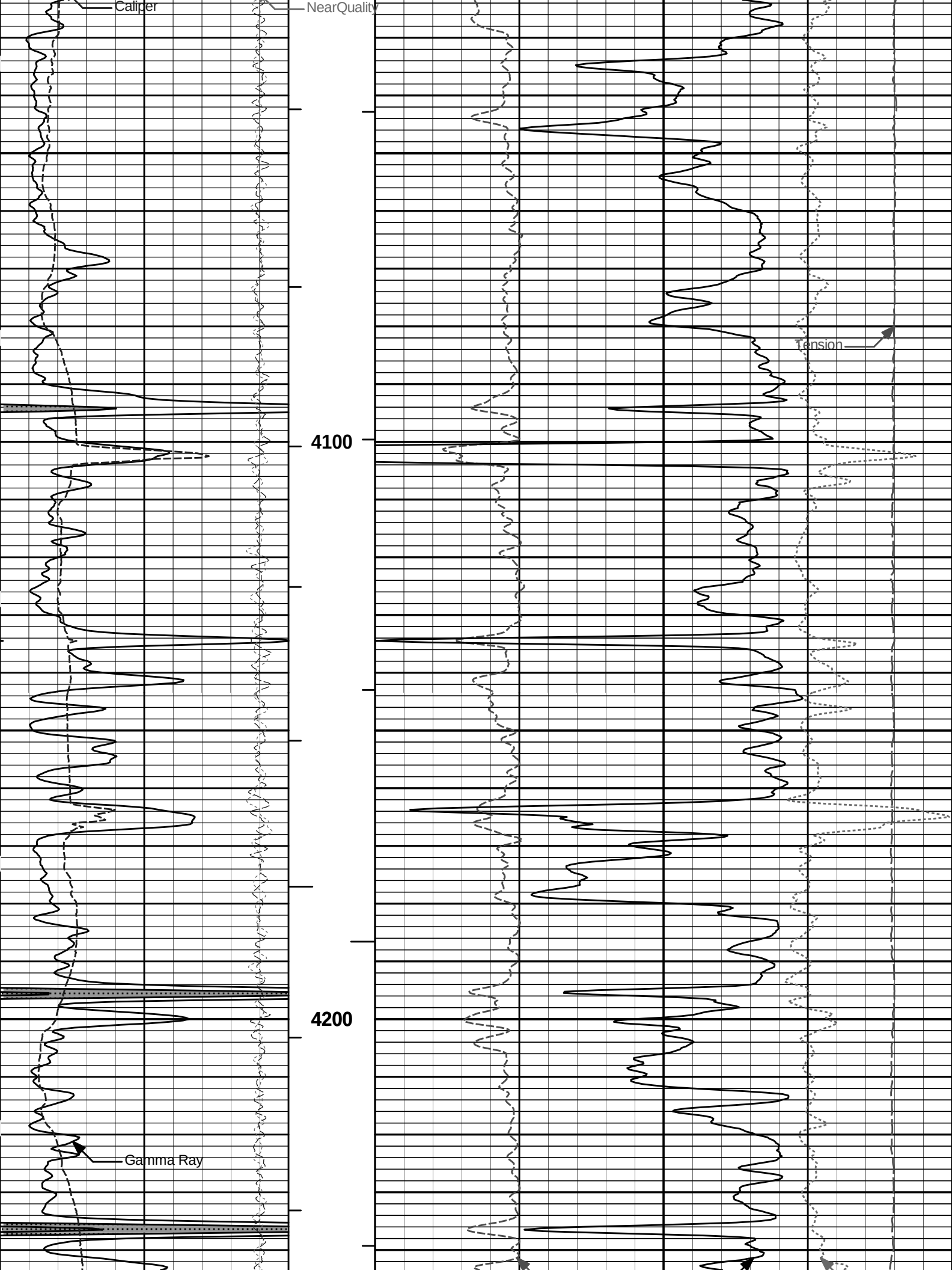
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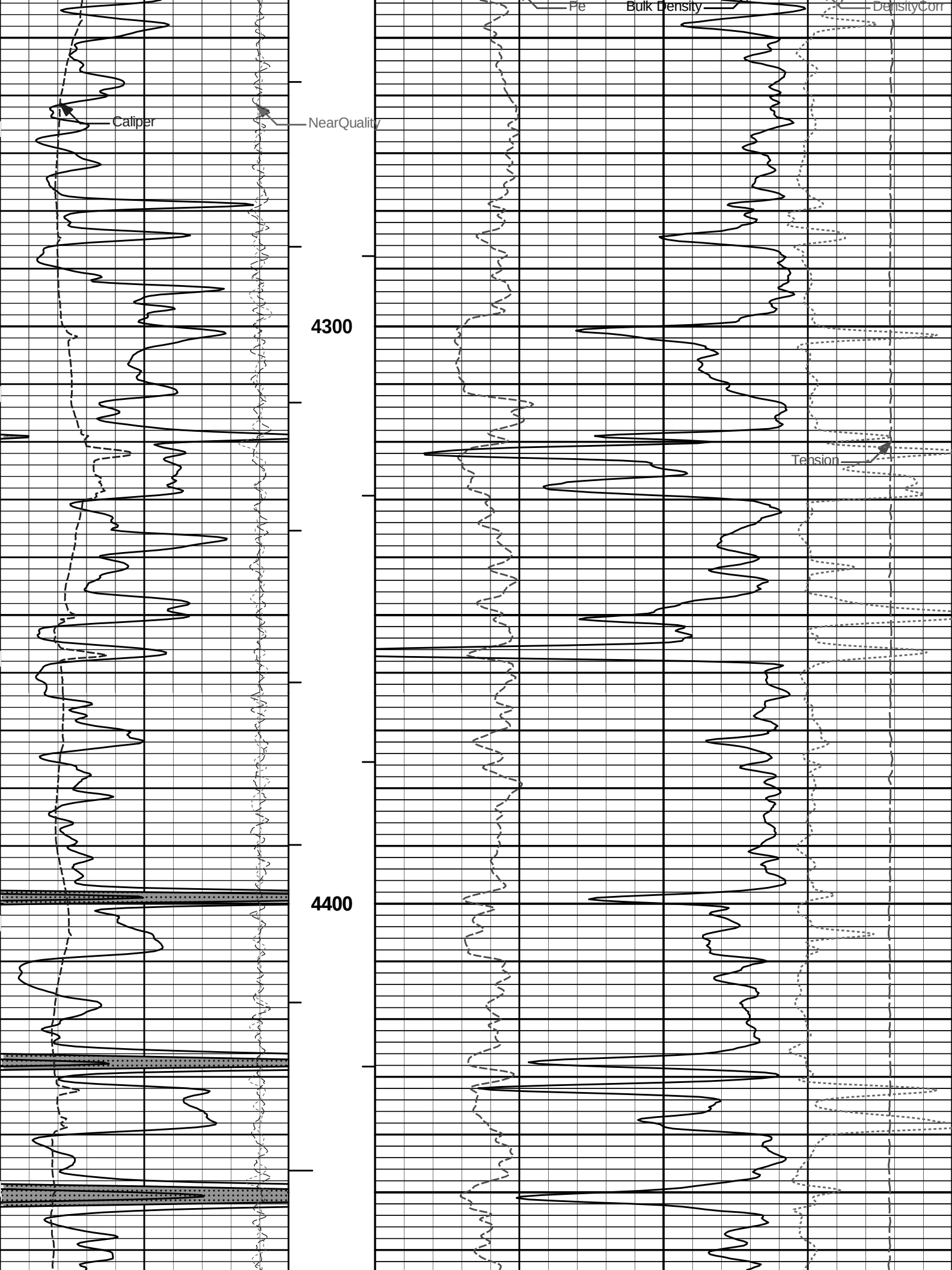
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Plot Range: 3750 ft to 4769 ft
Data: NEWBY 2-21\Well Based\DETAIL_BOTTOM\
Plot File: \\-LOCAL-\\NEWBY 2-21\0001 SP-GTET-DSNT-SDLT-ACRT-CHIPORO\BULKD_5_MAIN_LIB

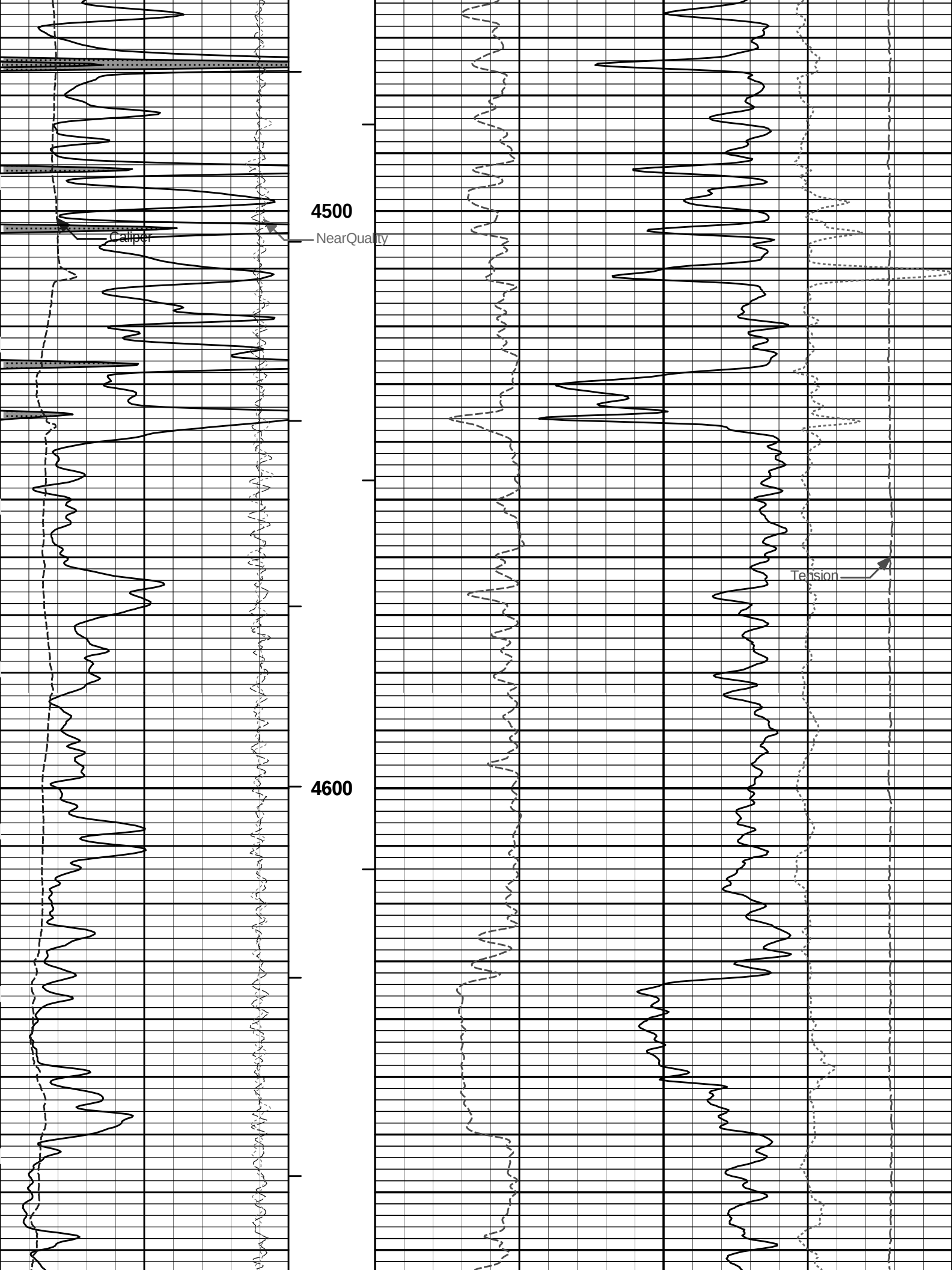
5 INCH MAIN LOG

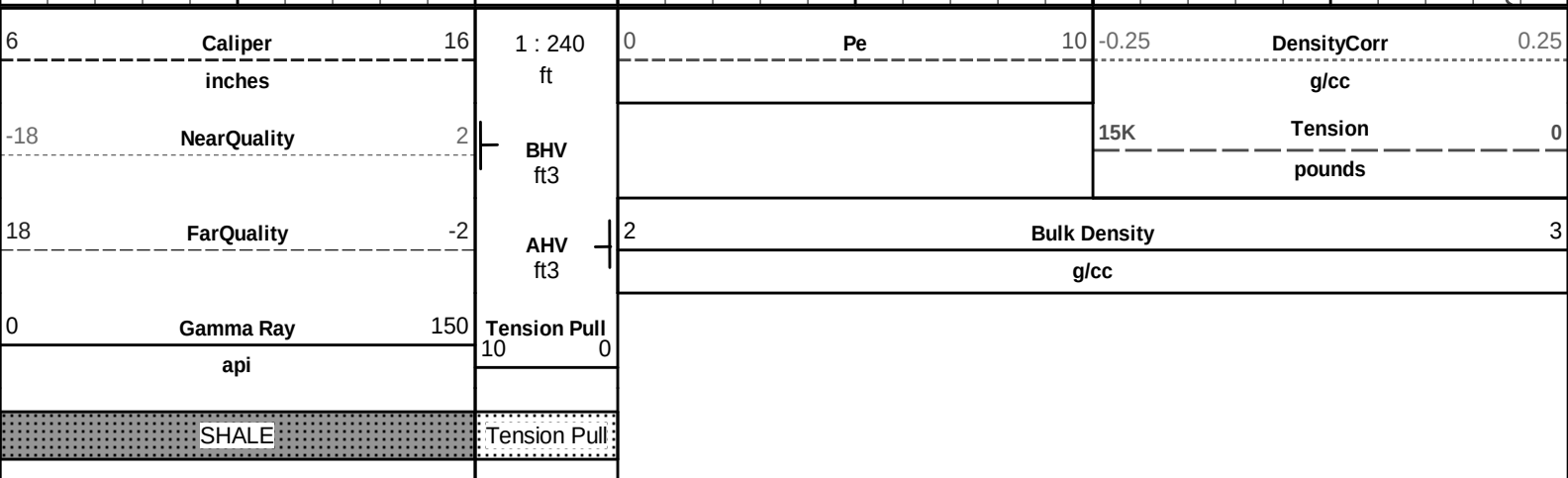








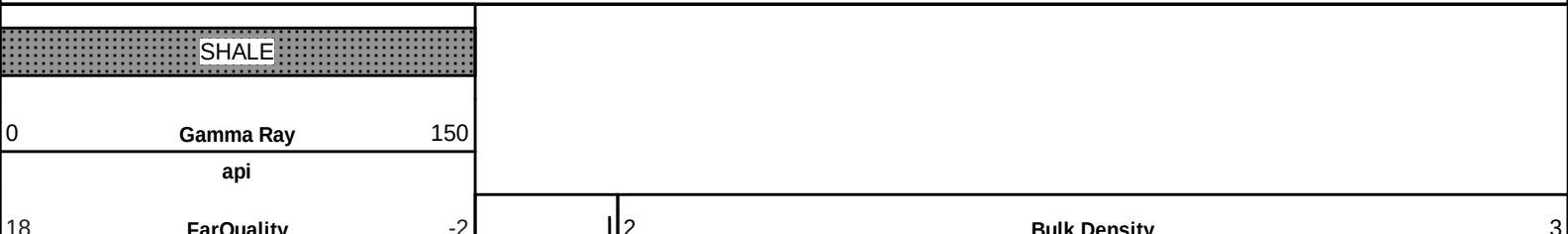


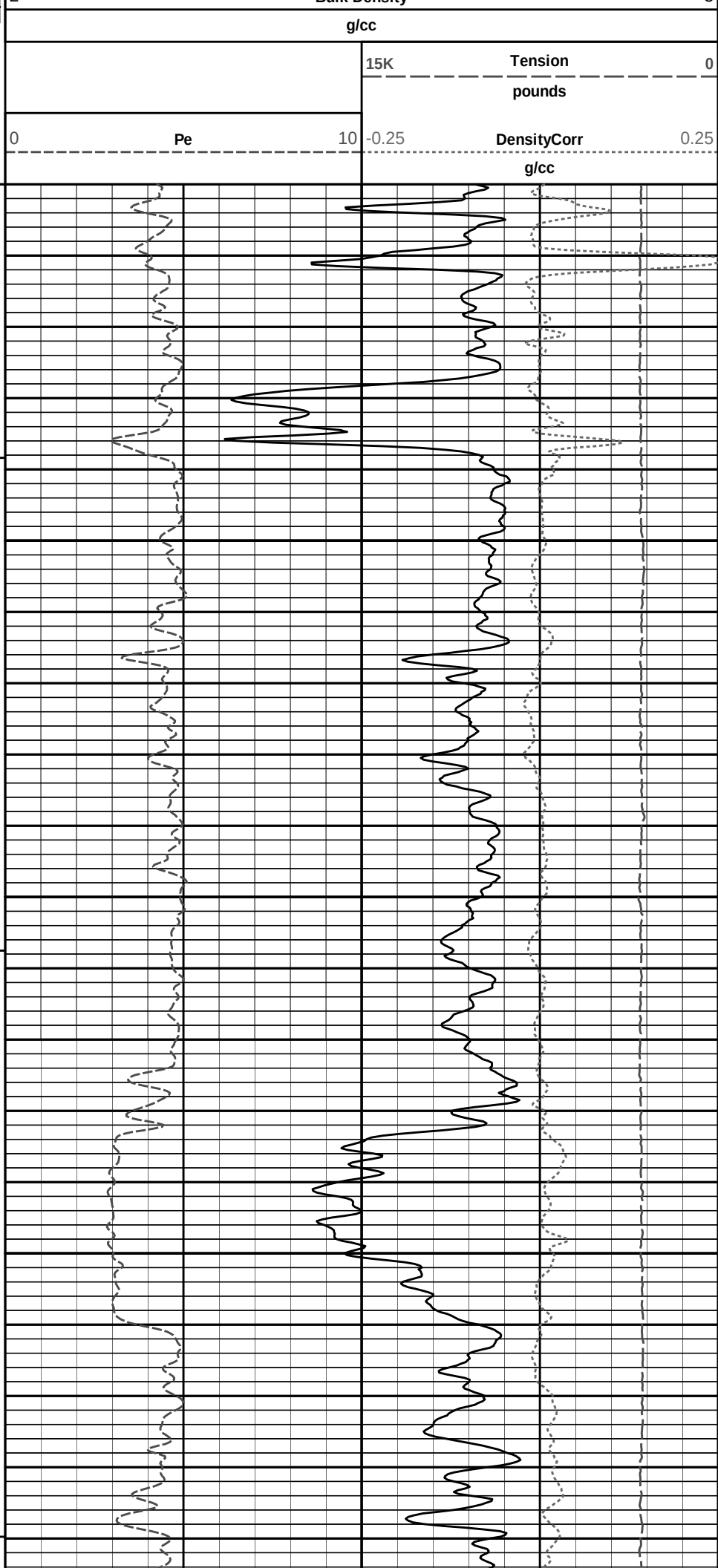
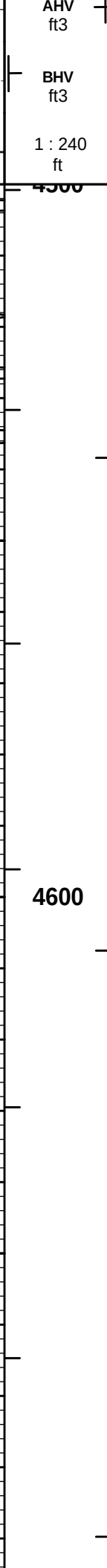
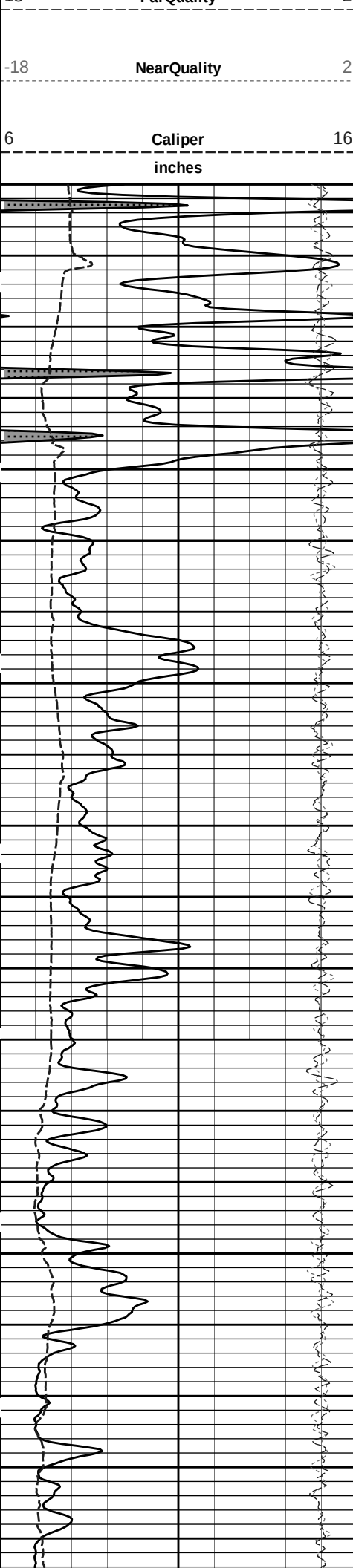


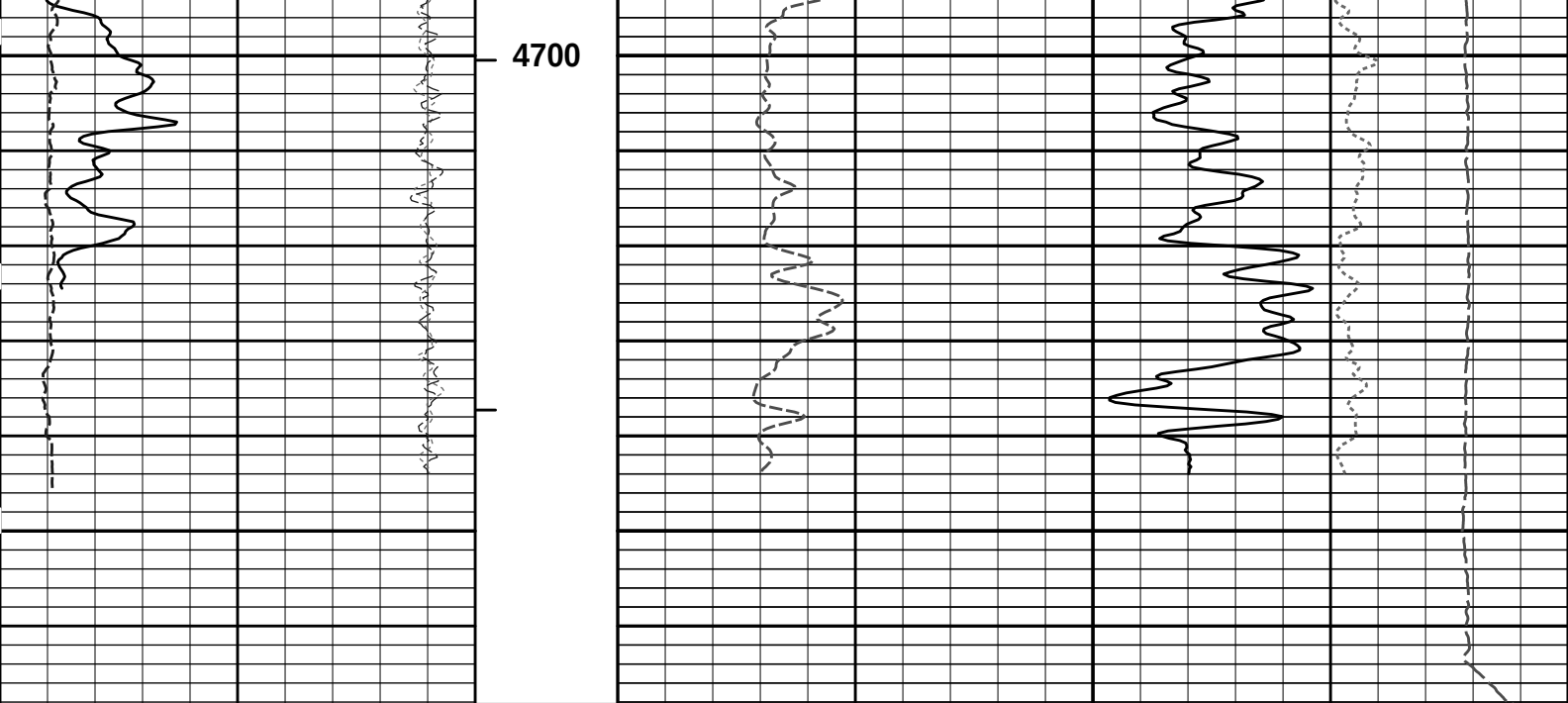
HALLIBURTON

Plot Time: 14-Mar-12 07:59:20
Plot Range: 4500 ft to 4768.25 ft
Data: NEWBY 2-21\Well Based\REPEAT\
Plot File: \\-LOCAL-\\NEWBY 2-21\\0001 SP-GTET-DSNT-SDLT-ACRT-CHIPORO\\BULKD_5_REP_LIB

REPEAT SECTION





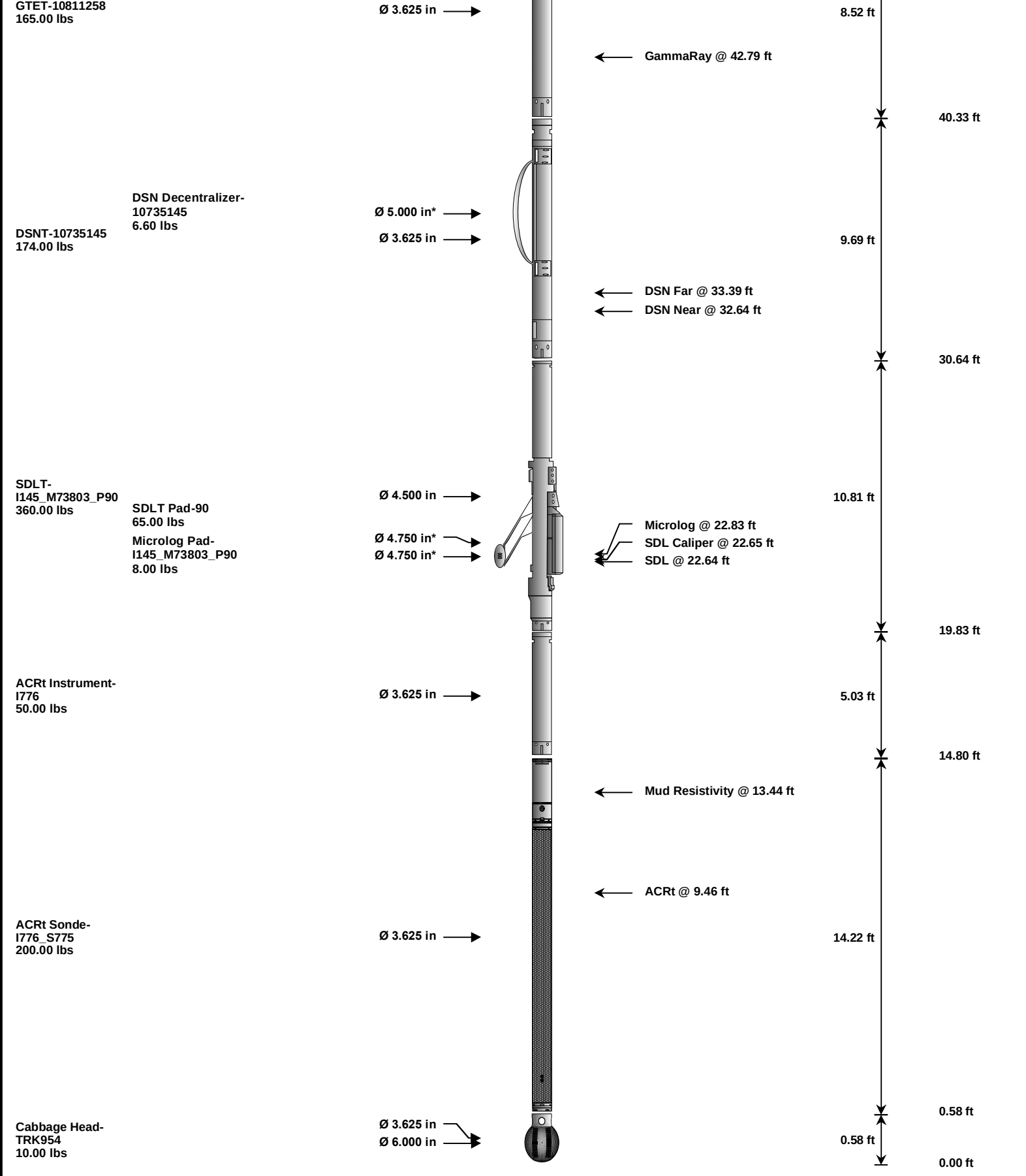


6	Caliper	16	1 : 240 ft	0	Pe	10	-0.25	DensityCorr	0.25	
	inches							g/cc		
-18	NearQuality	2	BHV ft3				15K	Tension	0	
								pounds		
18	FarQuality	-2	AHV ft3	2	Bulk Density					3
					g/cc					
0	Gamma Ray	150								
	api									
SHALE										

HALLIBURTON Plot Time: 14-Mar-12 07:59:22 Plot Range: 4500 ft to 4768.25 ft Data: NEWBY 2-21\Well Based\REPEAT\ Plot File: \\LOCAL\NEWBY 2-21\0001 SP-GTET-DSNT-SDLT-ACRT-CHIPORO\BULKD_5_REP_LIB									
REPEAT SECTION									

HALLIBURTON TOOL STRING DIAGRAM REPORT									
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Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
Cable Head- PROT01 30.00 lbs		Ø 3.625 in →			1.92 ft	54.51 ft
						52.59 ft
SP Sub-PROT01 60.00 lbs		Ø 3.625 in →		← SP @ 50.81 ft	3.74 ft	48.85 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	52.59	300.00
SP	SP Sub	PROT01	60.00	3.74	48.85	300.00
GTET	Gamma Telemetry Tool	10811258	165.00	8.52	40.33	60.00
DSNT	Dual Spaced Neutron	10735145	174.00	9.69	30.64	60.00
DCNT	DSN Decentralizer	10735145	6.60	5.13	*	33.97
SDLT	Spectral Density Tool	I145_M73803_P90	360.00	10.81	19.83	60.00
MICP	Microlog Pad	I145_M73803_P90	8.00	1.00	*	22.33

SDLP	Density Insite Pad	90	65.00	2.55	*	22.04	60.00
ACRt	Array Compensated True Resistivity Instrument Section	I776	50.00	5.03		14.80	300.00
ACRt	Array Compensated True Resistivity	I776_S775	200.00	14.22		0.58	300.00
CBHD	Cabbage Head	TRK954	10.00	0.58		0.00	300.00
Total							1,128.60 54.51
Data: NEWBY 2-21\0001 SP-GTET-DSNT-SDLT-ACRT-CH\IDLE							* Not included in Total Length and Length Accumulation. Date: 14-Mar-12 04:45:16

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION			
Tool Name:	GTET - 10811258	Reference Calibration Date:	27-Feb-12 10:42:34
Engineer:	T. HYDE	Calibration Date:	27-Feb-12 10:45:14
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1
Calibrator Source S/N: TB185 Calibrator API Reference:228.00 api Equivalent Calibrator API Reference:232.0 api			
Measurement	Measured	Calibrated	Units
Background	43.9	44.1	api
Background + Calibrator	275.0	276.1	api
Calibrator	231.1	232.0	api

DUAL SPACED NEUTRON SHOP CALIBRATION			
Tool Name:	DSNT - 10735145	Reference Calibration Date:	23-Jan-12 13:47:26
Engineer:	T. HYDE	Calibration Date:	27-Feb-12 13:38:46
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1
Logging Source S/N: 954 Tank Serial Number: LIBERAL_NEUTRON Reference value assigned to Tank: 51.680 Snow Block S/N: 954 Calibration Tank Water Temperature: 67 degF Min. Tool Housing Outside Diameter: 3.600 in			

CALIBRATION CONSTANTS			
Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.933	0.931	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):	0.2094	0.2088	0.0006	+/- 0.0020
Calibrated Ratio:	9.67	9.65	0.020	+/- 0.050

VERIFIER		
Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0624	0.02000 - 0.09000

PASS/FAIL SUMMARY

Background Check:		Passed	
Gain-Range Check:		Passed	
Snow-Block Check:		Passed	

DENSITY CALIPER SHOP CALIBRATION			
Tool Name:	SDLT - I145_M73803_P90	Reference Calibration Date:	13-Mar-12 07:51:45
Engineer:	J. BOLLLOM	Calibration Date:	13-Mar-12 07:57:35
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	-2639.33	-2523.52	-7000.00 - -1000.00	
	Pad Gain	0.0003736	0.0003667	0.000200 - 0.000600	
	Arm Offset	-2860.63	-3477.34	-5000.00 - 3000.00	
	Arm Gain	0.0005039	0.0005744	0.000300 - 0.000700	
	Arm Power	-0.000003830	-0.000008404	-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)	3.78	3.75	-0.03	+/- 0.20
	RING DIAMETER:				
	Small Ring (in)	6.58	6.50	-0.08	+/- 0.20
	Medium Ring (in)	8.18	8.25	0.07	+/- 0.20
Large Ring (in)	15.05	15.00	-0.05	+/- 0.20	

PASS/FAIL SUMMARY	
Calibration-Coefficients Range Check:	Passed
Ring-Measurement Check:	Passed
PASS/FAIL SUMMARY	
Calibration-Coefficients Range Check:	Passed

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION			
Tool Name:	ACRt Sonde - I776_S775	Reference Calibration Date:	19-Jan-12 15:31:50
Engineer:	T. HYDE	Calibration Date:	13-Mar-12 13:01:10
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

TYPICAL GAIN RANGE									
Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.0182	1.05	0.95	1.0238	1.05	0.95	1.0250	1.05
A2 (50")	0.95	1.0191	1.05	0.95	1.0247	1.05	0.95	1.0239	1.05
A3 (29")	0.95	1.0020	1.05	0.95	1.0070	1.05	0.95	1.0057	1.05
A4 (17")	0.95	1.0042	1.05	0.95	1.0078	1.05	0.95	1.0098	1.05
A5 (10")	N/A	N/A	N/A	0.95	1.0196	1.05	0.95	1.0218	1.05
A6 (6")	N/A	N/A	N/A	0.95	1.0299	1.05	0.95	1.0326	1.05

TYPICAL SONDE OFFSET RANGE									
Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper

A1 (80")	-5	-1.736	2	-6	-4.151	-2	-8	-4.087	-2
A2 (50")	-7	-3.028	-1	-6	-4.236	-2	-7	-4.272	-2
A3 (29")	-27	-14.459	-9	-9	-4.439	-3	-7	-2.628	-1
A4 (17")	-180	-101.693	-60	-45	-31.226	-15	-39	-24.236	-13
A5 (10")	N/A	N/A	N/A	-150	-119.327	-50	-80	-54.577	-10
A6 (6")	N/A	N/A	N/A	175	286.532	525	90	141.850	270

TRANSMITTER CURRENT GAIN					R-MUD VERIFICATION			
Signal	Lower	R	Upper		Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
12K	0.6	0.8630	1.3		Mud Cell	0.95	0.991	1.05
36K	1.0	1.1828	2.0					
72K	1.0	1.4604	2.0					

SPECTRAL DENSITY SHOP CALIBRATION			
Tool Name:	SDLT Pad - 90	Reference Calibration Date:	27-Feb-12 11:07:59
Engineer:	T. HYDE	Calibration Date:	27-Feb-12 11:25:47
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

Logging Source S/N: 5073GW

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	0.9856	0.9682	0.90 - 1.10
Near Dens Gain	0.9885	0.9615	0.90 - 1.10
Near Peak Gain	0.9735	0.9585	0.90 - 1.10
Near Lith Gain	0.9731	0.9312	0.90 - 1.10
Far Bar Gain	1.0029	1.0019	0.90 - 1.10
Far Dens Gain	0.9915	0.9920	0.90 - 1.10
Far Peak Gain	0.9841	0.9845	0.90 - 1.10
Far Lith Gain	0.9542	0.9507	0.90 - 1.10
Near Bar Offset	0.3137	0.4689	NONE
Near Dens Offset	0.2724	0.5100	NONE
Near Peak Offset	0.3884	0.5102	NONE
Near Lith Offset	0.3734	0.7177	NONE
Far Bar Offset	0.0764	0.0851	NONE
Far Dens Offset	0.1574	0.1521	NONE
Far Peak Offset	0.1642	0.1606	NONE
Far Lith Offset	0.3045	0.3323	NONE
Near Bar Background	888.26	884.21	700 - 1450
Near Dens Background	294.87	292.50	230 - 480
Near Peak Background	128.25	129.52	100 - 210
Near Lith Background	157.60	157.77	125 - 260
Far Bar Background	596.35	593.58	450 - 900
Far Dens Background	234.07	233.79	175 - 345
Far Peak Background	92.13	93.24	70 - 140
Far Lith Background	97.19	97.98	75 - 145

CALIBRATION BLOCK SUMMARY				
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change

Measurement	TOOL SUMMARY			
	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	0.0017	+/- 0.0110	0.0029	+/- 0.0140
Magnesium Block	-0.0007	+/- 0.0110	-0.0011	+/- 0.0140
Aluminum Block	0.0006	+/- 0.0110	0.0010	+/- 0.0140
Resolution	8.97	6.00 - 11.50	9.18	6.00 - 11.50
Internal Verifier(B+D+P+L)	1464	1200 - 2700	1019	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

MICRO LOG SHOP CALIBRATION			
Tool Name:	Microlog Pad - I145_M73803_P90	Reference Calibration Date:	13-Jan-12 12:43:35
Engineer:	J. BOLLLOM	Calibration Date:	12-Mar-12 08:17:08
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

CALIBRATION COEFFICIENT SUMMARY					
Measurement	Micro Log Normal		Micro Log Lateral		Units
	Measured	Calibrated	Measured	Calibrated	
Tool Zero	-0.08	-0.07	-0.00	-0.01	ohmm
Calibration Point #1	-0.02	0.00	0.00	0.00	ohmm
Calibration Point #2	19.92	20.00	19.94	20.00	ohmm
Internal Reference	19.85	19.93	19.94	19.99	ohmm
Measurement	Micro Log Normal Tool Value		Micro Log Lateral Tool Value		Units
Tool Zero	-0.32		-0.77		V
Calibration Point #1	17.42		1.71		V
Calibration Point #2	5373.42		6988.77		V
Internal Reference	5354.44		6985.83		V

CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-10811258						
Gamma Ray Calibrator	232.0	-----	-----	0.0	+/- 9.00	api
DSNT-10735145						

Snow-Block Porosity	0.0624	-----	-----	0.0000	+/- -.--	decP
SDLT-I145_M73803_P90						
Pad Extension	3.75	-----	-----	0.00	+/-0.20	in
Ring Diameter	8.25	-----	-----	0.00	+/-0.20	in
ACRt Sonde-I776_S775						
Mud Cell	0.991	-----	-----	0.000	-----	ohm-m
SDLT Pad-90						
Near(B+D+P+L)	1464.003	-----	-----	0.000	+/-13.496	cps
Far(B+D+P+L)	1018.591	-----	-----	0.000	+/-15.424	cps
Microlog Pad-I145_M73803_P90						
MicroLog Normal	19.93	-----	-----	0.00	-----	ohmm
MicroLog Lateral	19.99	-----	-----	0.00	-----	ohmm
Data: NEWBY 2-21\0001 SP-GTET-DSNT-SDLT-ACRT-CHIDLE						
Date: 14-Mar-12 04:48:03						

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PARAMETERS REPORT

Depth (ft))	Tool Name	Mnemonic	Description	Value	Units
TOP					
	SHARED	BS	Bit Size	7.875	in
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	MDBS	Mud Base	Water	
	SHARED	MDWT	Borehole Fluid Weight	9.300	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	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	4770.00	ft
	SHARED	BHT	Bottom Hole Temperature	200.0	degF
	SHARED	SVTM	Navigation and Survey Master Tool	NONE	
	SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET	
	SHARED	TEMM	Temperature Master Tool	NONE	
	SHARED	BHSM	Borehole Size Master Tool	NONE	
	Rwa / CrossPlot	XPOK	Process Crossplot?	Yes	
	Rwa / CrossPlot	FCHO	Select Source of F	Automatic	
	Rwa / CrossPlot	AFAC	Archie A factor	0.6200	
	Rwa / CrossPlot	MFAC	Archie M factor	2.1500	
	Rwa / CrossPlot	RMFR	Rmf Reference	0.10	ohmm
	Rwa / CrossPlot	TMFR	Rmf Ref Temp	75.00	degF
	Rwa / CrossPlot	RWA	Resistivity of Formation Water	0.05	ohmm
	Rwa / CrossPlot	ADP	Use Air Porosity to calculate CrossplotPhi	No	
	GTET	GROK	Process Gamma Ray?	Yes	
	GTET	GRSO	Gamma Tool Standoff	0.000	in
	GTET	GEOK	Process Gamma Ray EVR?	No	

GTET	TPOS	Tool Position for Gamma Ray Tools.	Eccentered	
DSNT	DNOK	Process DSN?	Yes	
DSNT	DEOK	Process DSN EVR?	No	
DSNT	NLIT	Neutron Lithology	Limestone	
DSNT	DNSO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.250	in
DSNT	DNTP	Temperature Correction Type	None	
DSNT	DPRS	DSN Pressure Correction Type	None	
DSNT	SHCO	View More Correction Options	No	
DSNT	UTVD	Use TVD for Gradient Corrections?	No	
DSNT	LHWT	Logging Horizontal Water Tank?	No	
SDLT	CLOK	Process Caliper Outputs?	Yes	
SDLT Pad	DNOK	Process Density?	Yes	
SDLT Pad	DNOK	Process Density EVR?	No	
SDLT Pad	CB	Logging Calibration Blocks?	No	
SDLT Pad	SPVT	SDLT Pad Temperature Valid?	Yes	
SDLT Pad	DTWN	Disable temperature warning	No	
SDLT Pad	DMA	Formation Density Matrix	2.710	g/cc
SDLT Pad	DFL	Formation Density Fluid	1.000	g/cc
Microlog Pad	MLOK	Process MicroLog Outputs?	Yes	
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	
BOTTOM				
Data: NEWBY 2-21\0001 SP-GTET-DSNT-SDLT-ACRT-CHIDLE			Date: 14-Mar-12 04:47:25	

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	50.81	NO	
SP	Spontaneous Potential	50.81	BLK	1.250
SPR	Raw Spontaneous Potential	50.81	NO	
SPO	Spontaneous Potential Offset	50.81	NO	
GTET				
TPUL	Tension Pull	42.79	NO	
GR	Natural Gamma Ray API	42.79	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	42.79	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	42.79	W	1.416 , 0.750
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	
DSNT				

TPUL	Tension Pull	32.54	NO	
RNDS	Near Detector Telemetry Counts	32.64	BLK	1.417
RFDS	Far Detector Telemetry Counts	33.39	TRI	0.583
DNTT	DSN Tool Temperature	32.64	NO	
DSNS	DSN Tool Status	32.54	NO	
ERND	Near Detector Telemetry Counts EVR	32.64	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	33.39	BLK	0.000
ENTM	DSN Tool Temperature EVR	32.64	NO	
SDLT				
TPUL	Tension Pull	22.65	NO	
PCAL	Pad Caliper	22.65	TRI	0.250
ACAL	Arm Caliper	22.65	TRI	0.250
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	22.64	NO	
NAB	Near Above	22.46	BLK	0.920
NHI	Near Cesium High	22.46	BLK	0.920
NLO	Near Cesium Low	22.46	BLK	0.920
NVA	Near Valley	22.46	BLK	0.920
NBA	Near Barite	22.46	BLK	0.920
NDE	Near Density	22.46	BLK	0.920
NPK	Near Peak	22.46	BLK	0.920
NLI	Near Lithology	22.46	BLK	0.920
NBAU	Near Barite Unfiltered	22.46	BLK	0.250
NLIU	Near Lithology Unfiltered	22.46	BLK	0.250
FAB	Far Above	22.81	BLK	0.250
FHI	Far Cesium High	22.81	BLK	0.250
FLO	Far Cesium Low	22.81	BLK	0.250
FVA	Far Valley	22.81	BLK	0.250
FBA	Far Barite	22.81	BLK	0.250
FDE	Far Density	22.81	BLK	0.250
FPK	Far Peak	22.81	BLK	0.250
FLI	Far Lithology	22.81	BLK	0.250
PTMP	Pad Temperature	22.65	BLK	0.920
NHV	Near Detector High Voltage	22.04	NO	
FHV	Far Detector High Voltage	22.04	NO	
ITMP	Instrument Temperature	22.04	NO	
DDHV	Detector High Voltage	22.04	NO	
Microlog Pad				
TPUL	Tension Pull	22.83	NO	
MINV	Microlog Lateral	22.83	BLK	0.750
MNOR	Microlog Normal	22.83	BLK	0.750
Data: NEWBY 2-21\0001 SP-GTET-DSNT-SDLT-ACRT-CH\IDLE			Date: 14-Mar-12 04:47:00	

HALLIBURTON

Plot Time: 14-Mar-12 07:59:22

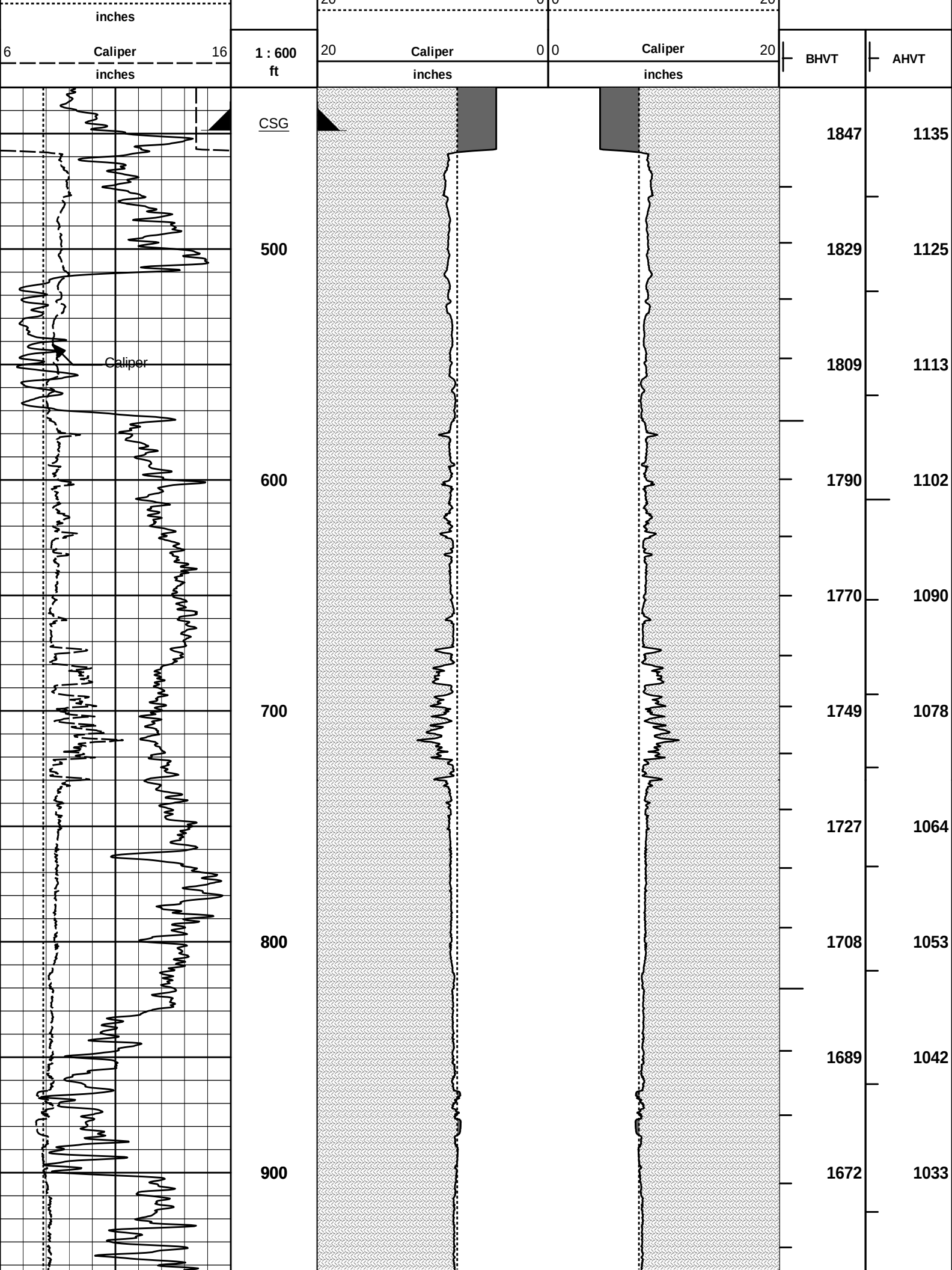
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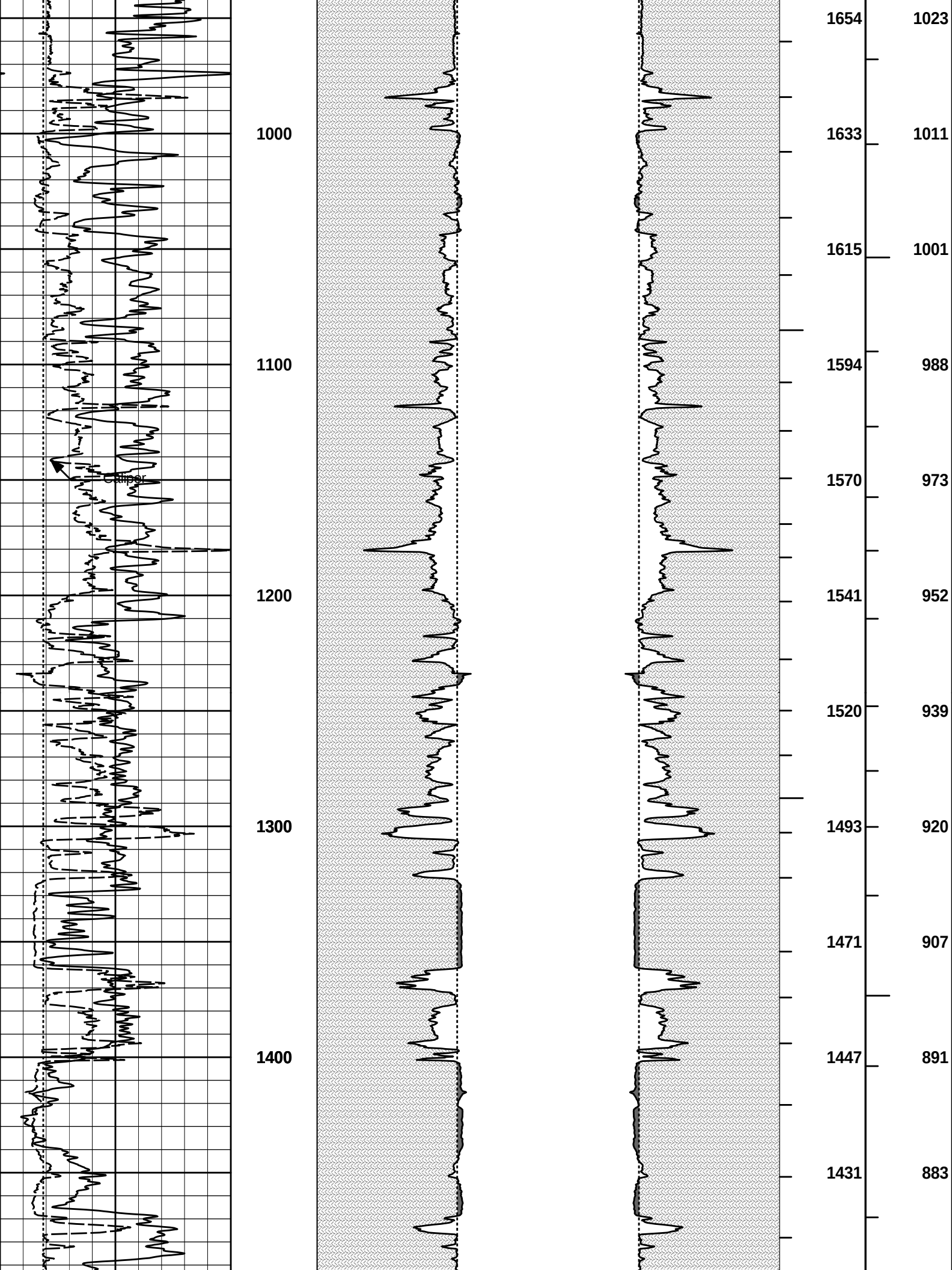
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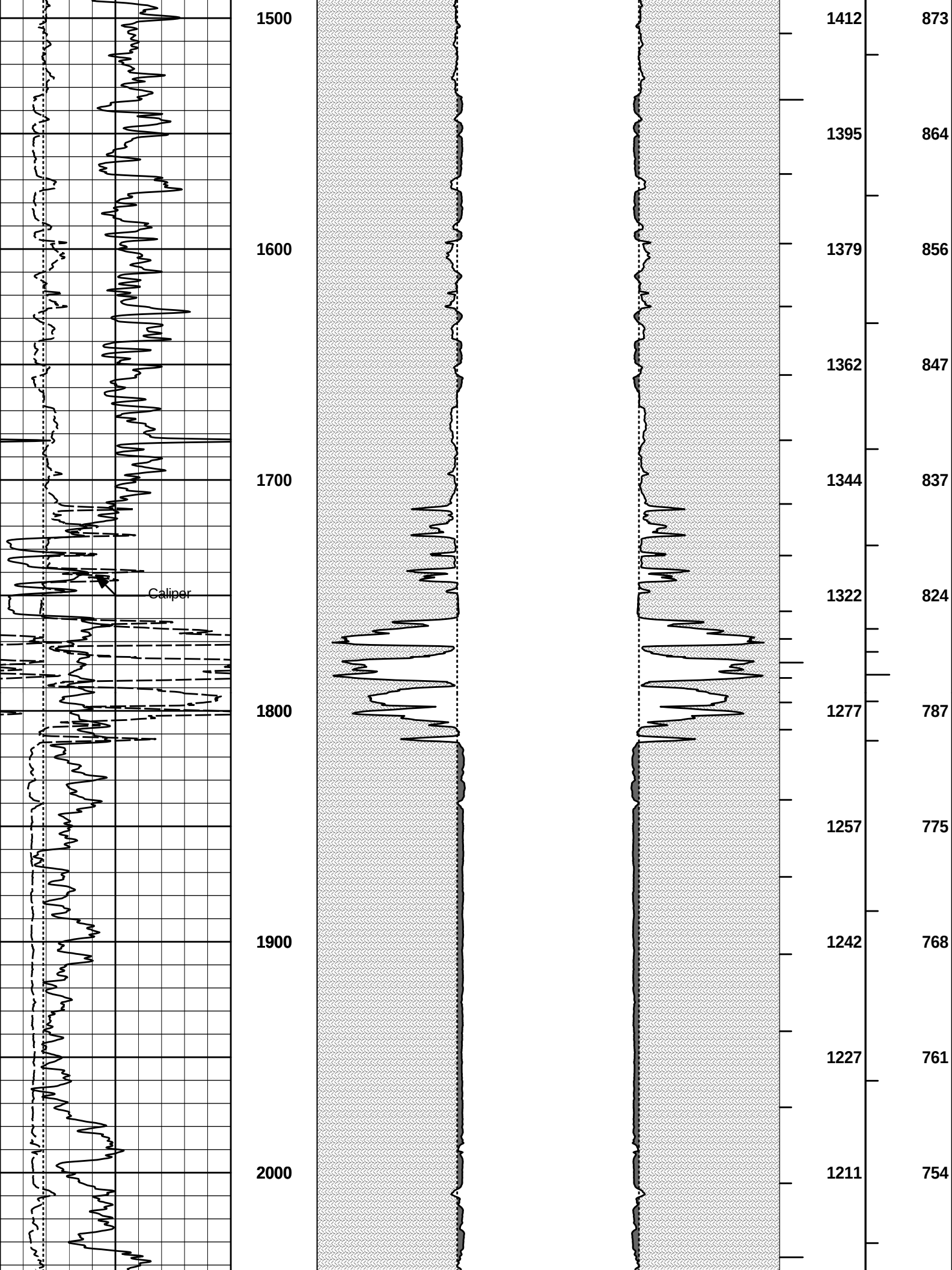
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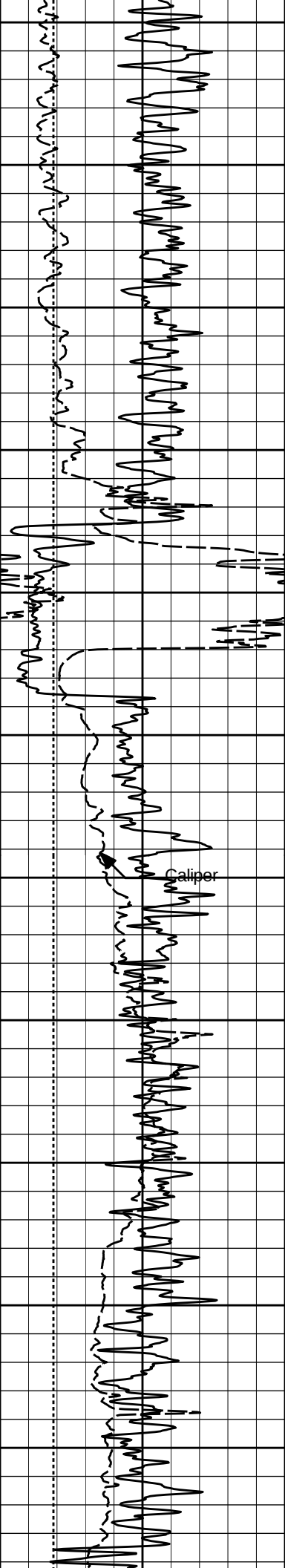
ANNULAR HOLE VOLUME PLOT (5.5 INCH)

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	api				MUDCAKE		MUDCAKE		
6	BS	16			Bit Size	0 0	Bit Size	20	









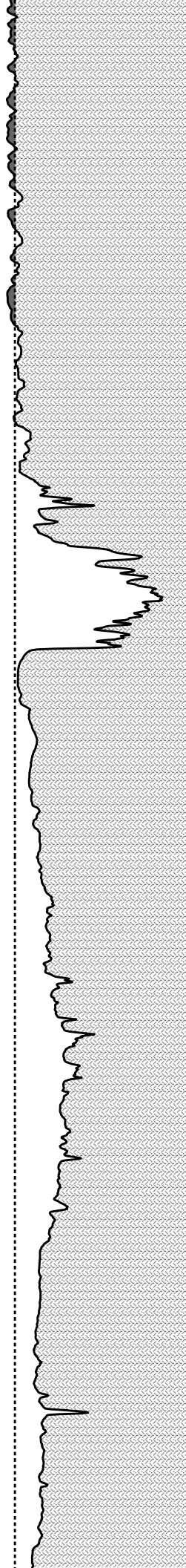
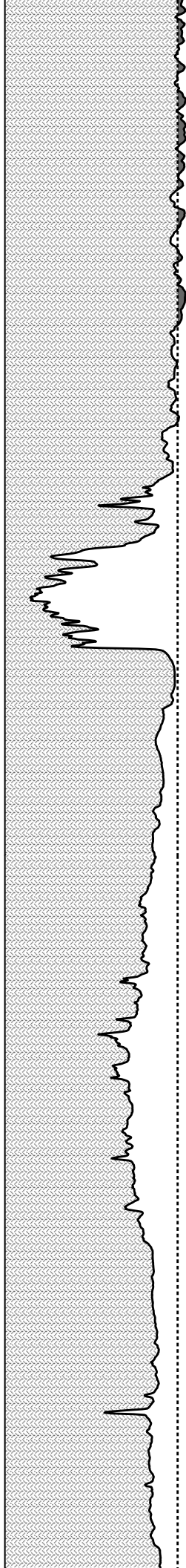
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2400

2500



1196

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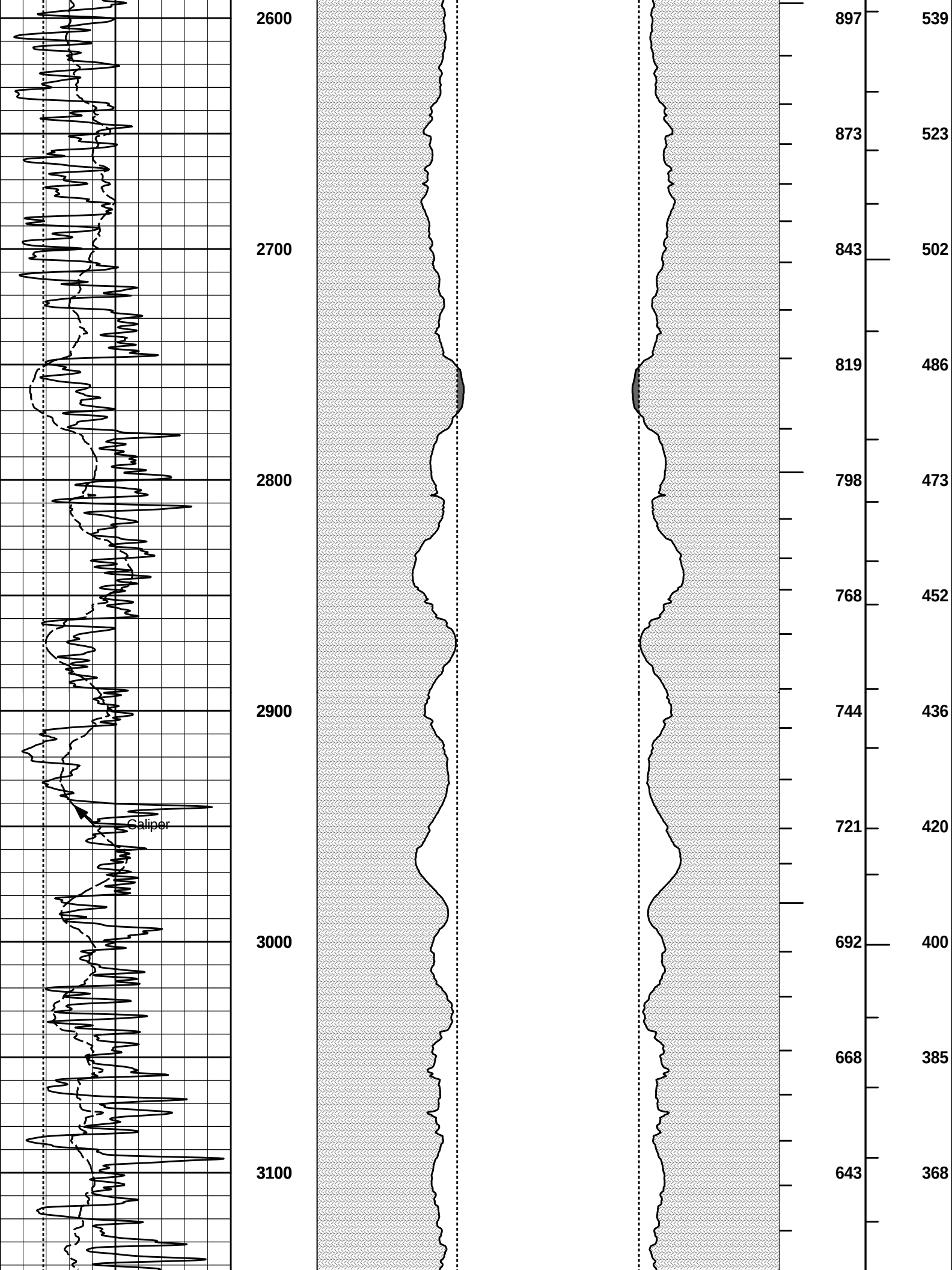
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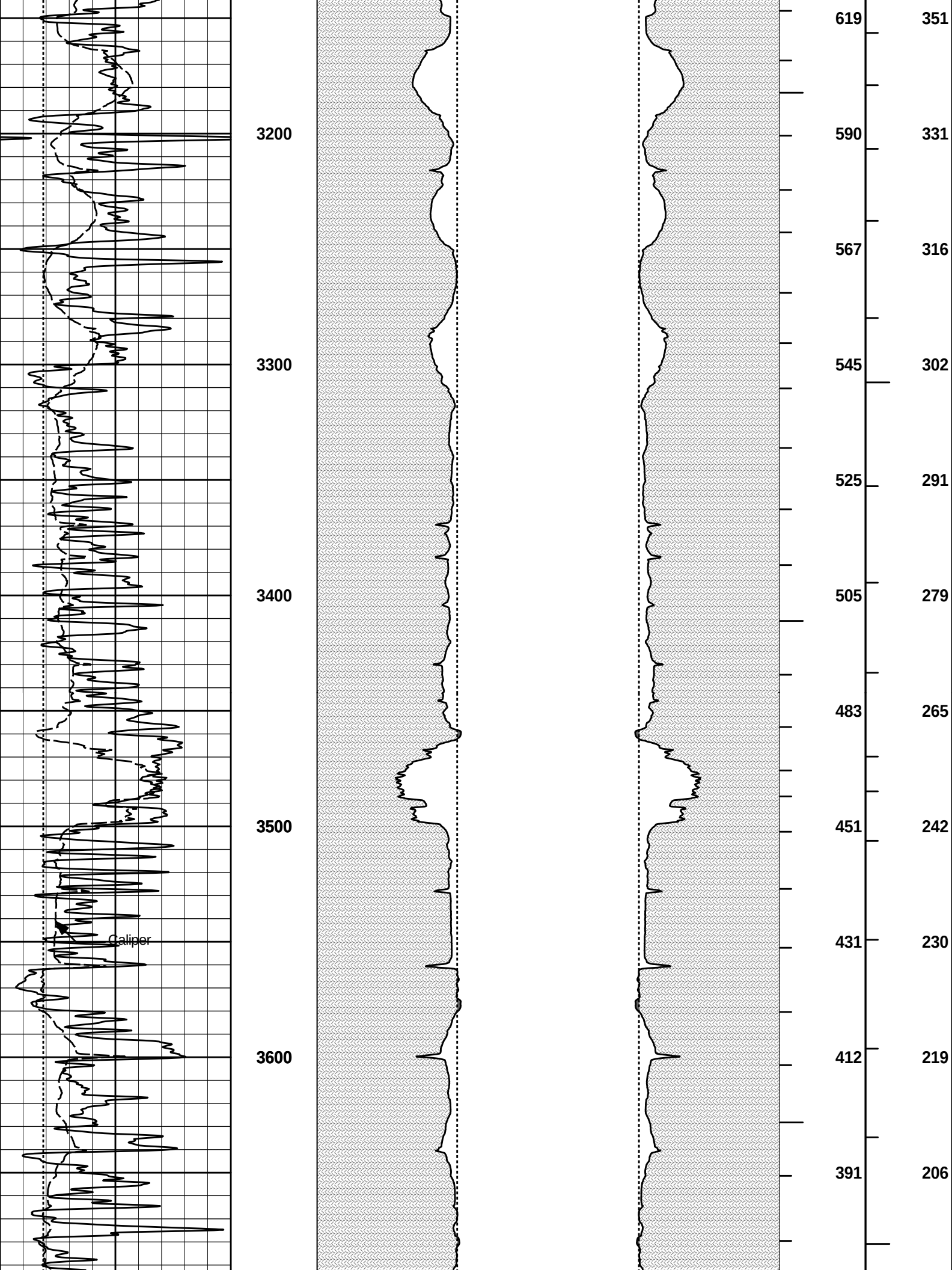
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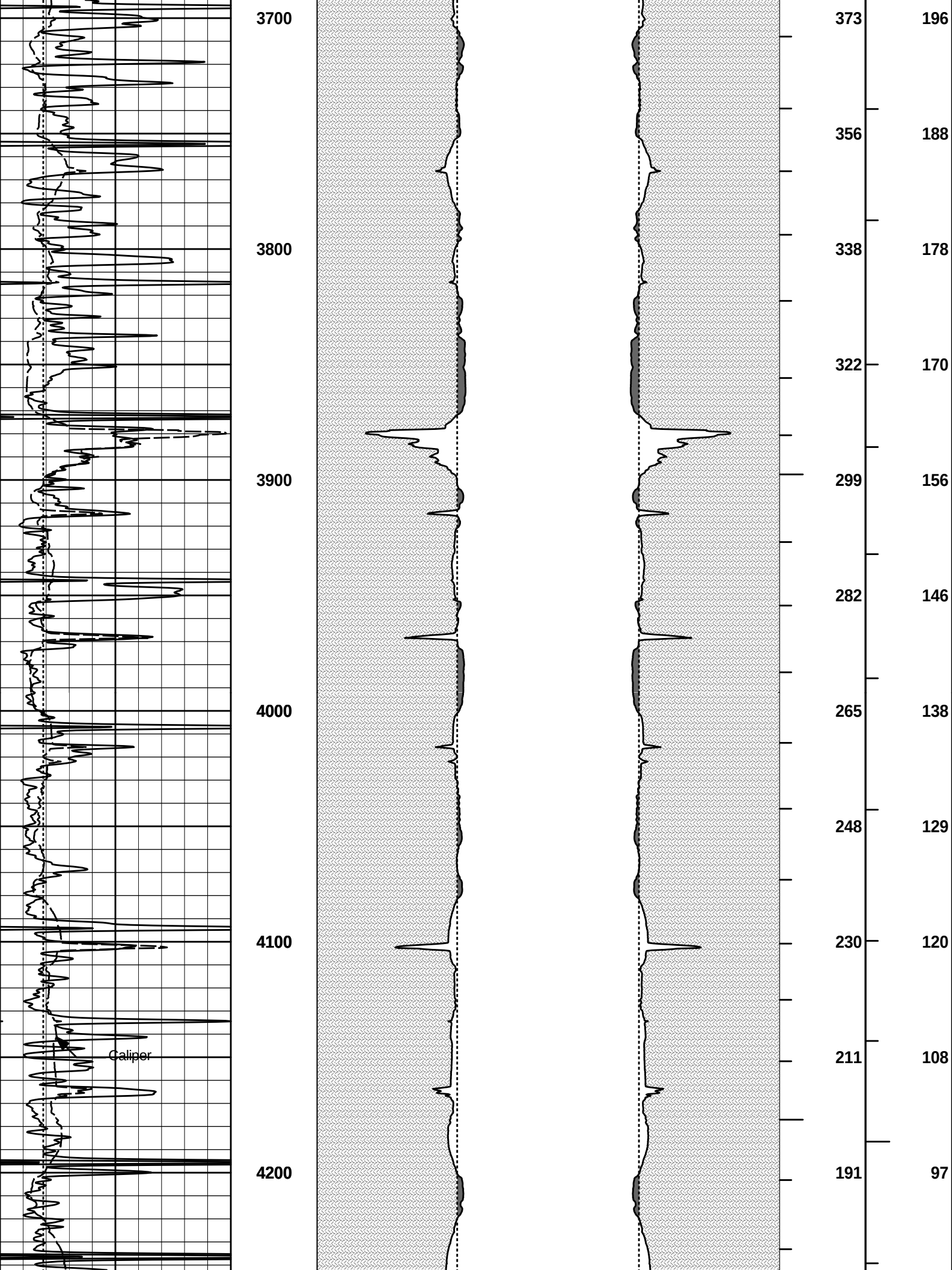
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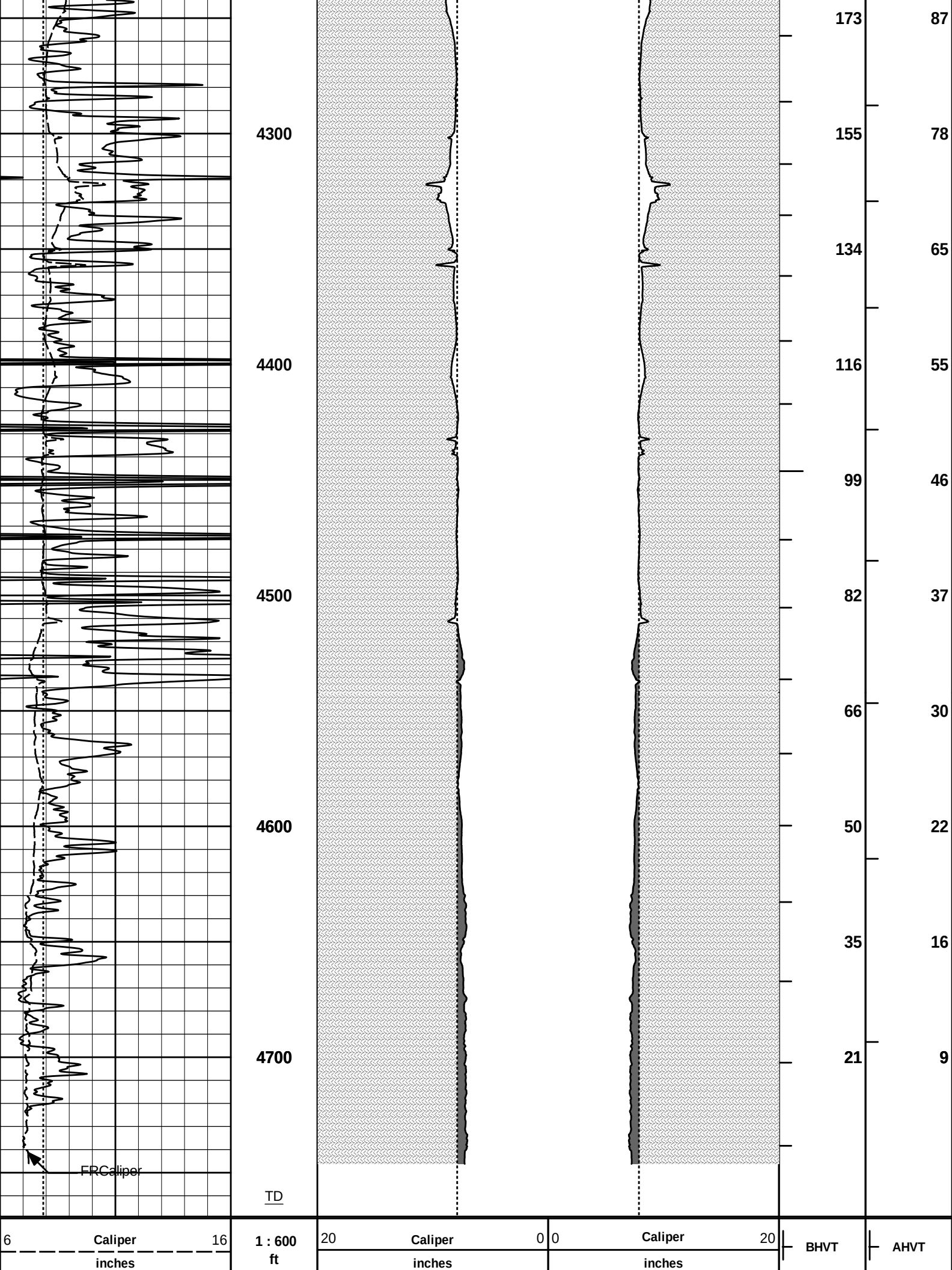
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556









6	BS	16		20	Bit Size	0	0	Bit Size	20	
	inches									
0	Gamma API	150			MUDCAKE			MUDCAKE		
	api									

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Plot Time: 14-Mar-12 07:59:33

Plot Range: 430 ft to 4769 ft

Data: NEWBY 2-21\Well Based\CASING\

Plot File: \\-LOCAL-\\NEWBY 2-21\\0001 SP-GTET-DSNT-SDLT-ACRT-CHIPORO\\AHV_5_5_INCH_2_IQ_LIB

ANNULAR HOLE VOLUME PLOT (5.5 INCH)

COMPANY	BEREXCO INC.				
WELL	NEWBY 2-21				
FIELD	EVA SOUTH				
COUNTY	SCOTT		STATE	KANSAS	
HALLIBURTON			SPECTRAL DENSITY DUAL SPACED NEUTRON LOG		