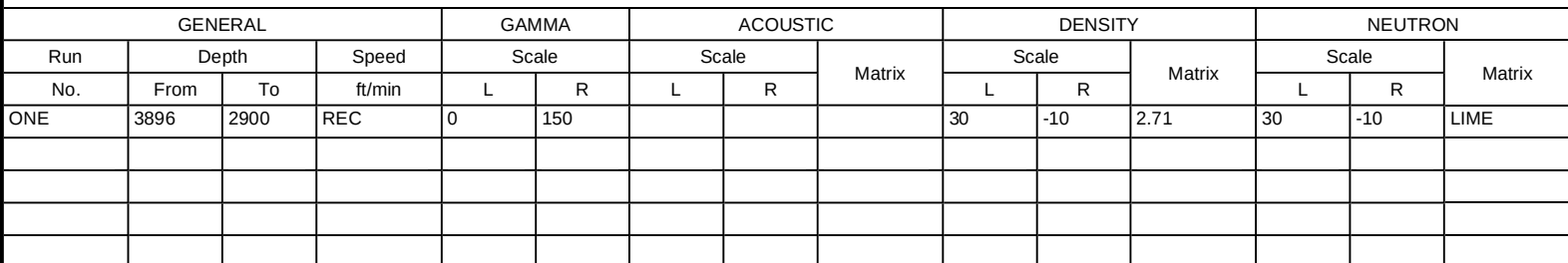
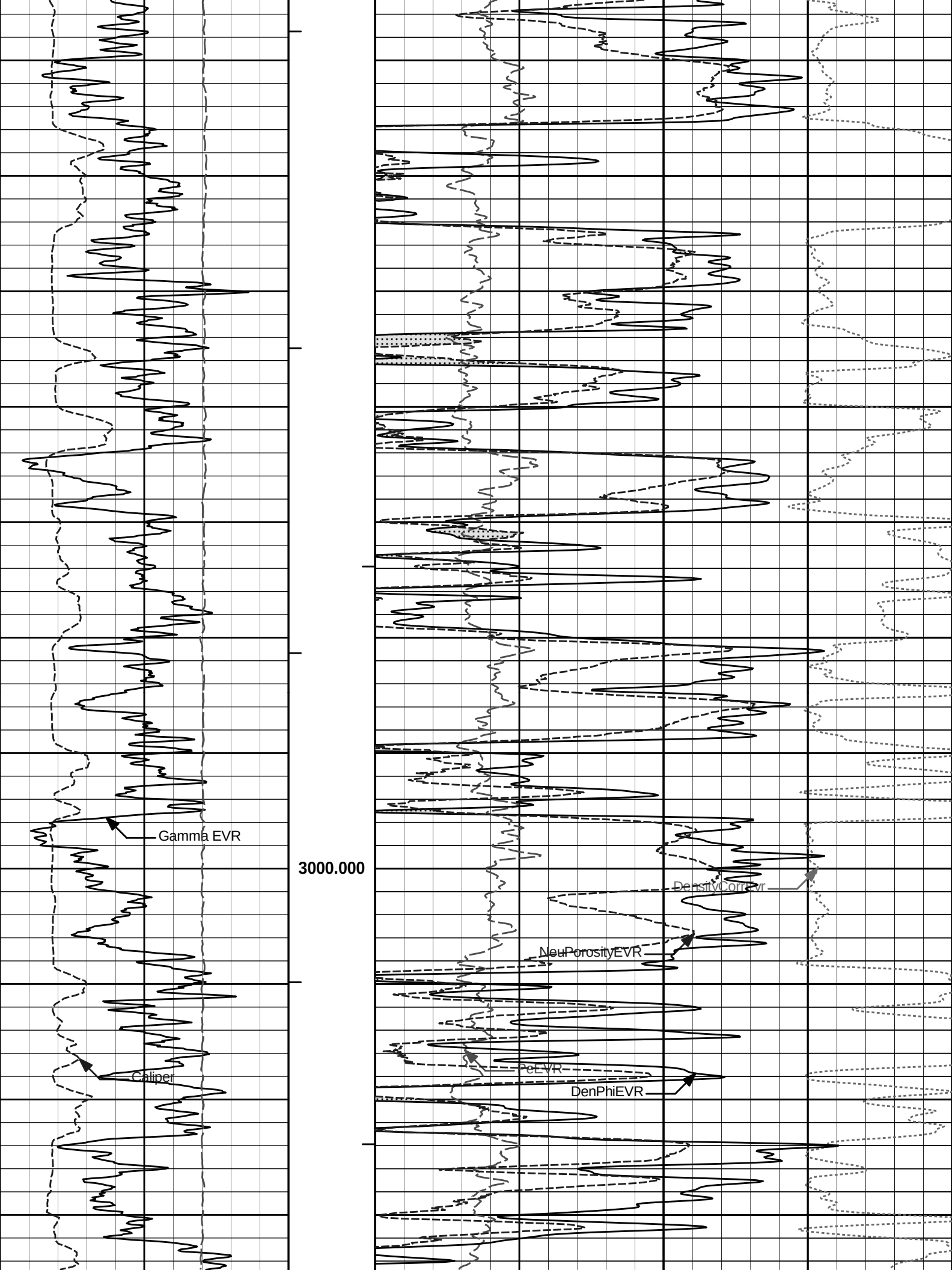


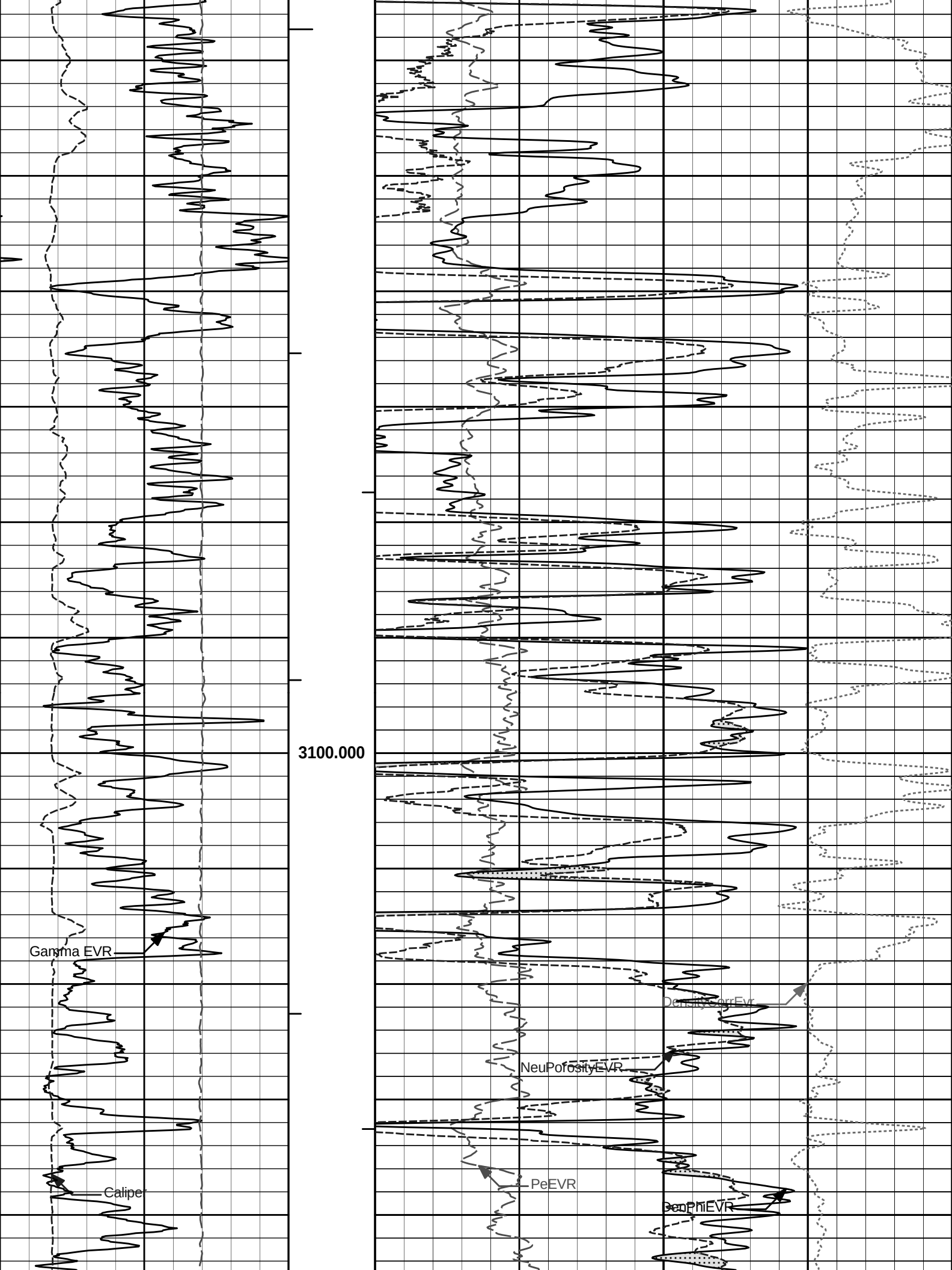
SPECTRAL DENSITY DUAL SPACED NEUTRON LOG

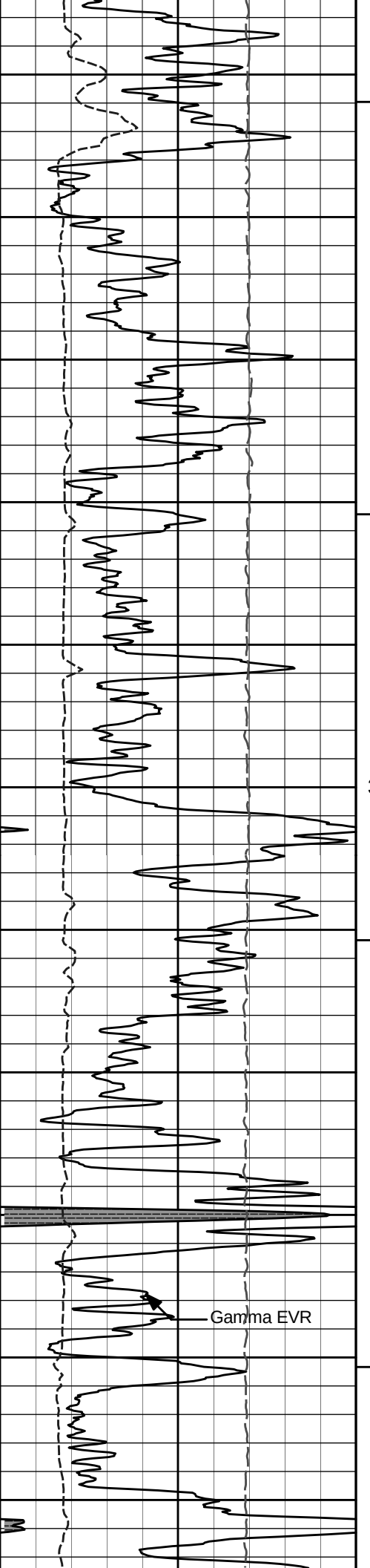
----- Fold here -----

LOGGING DATA

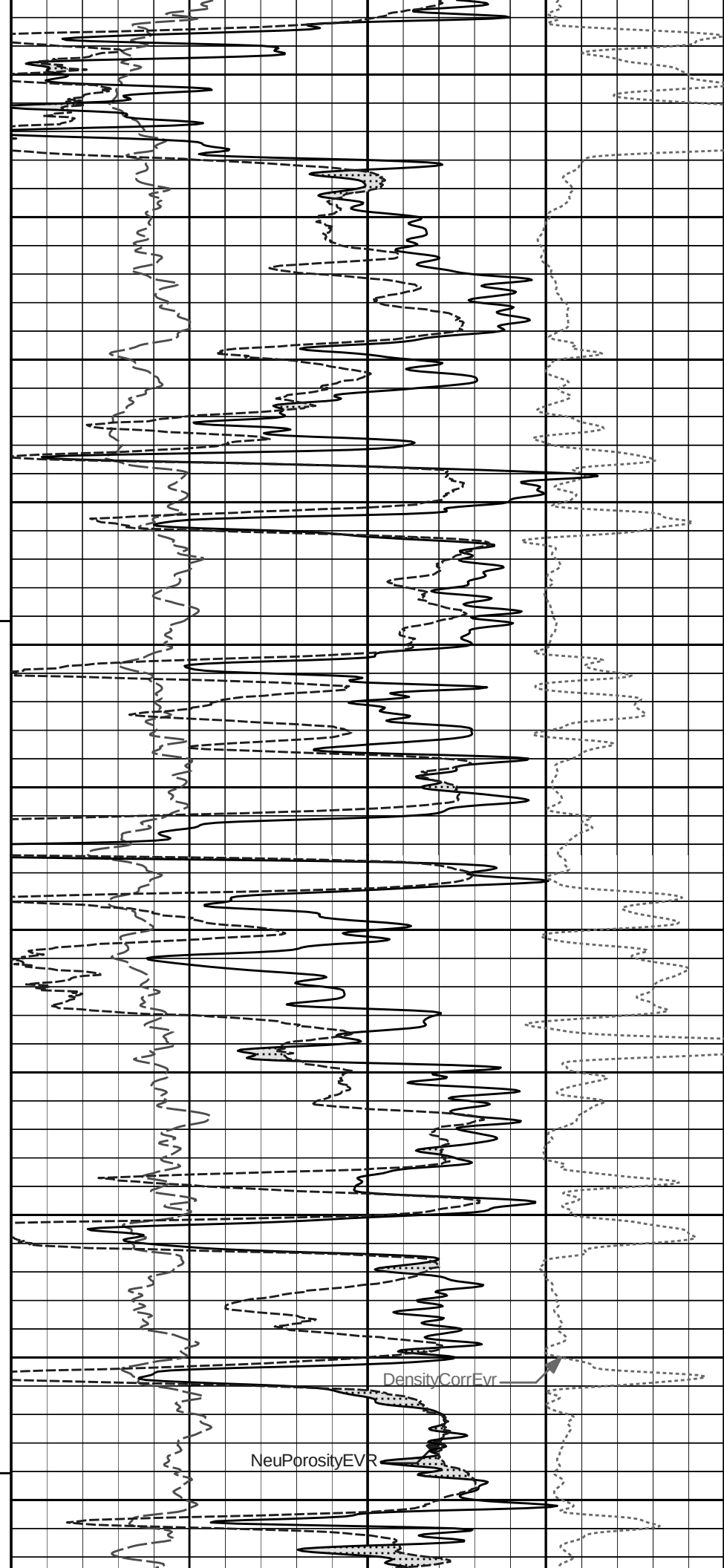


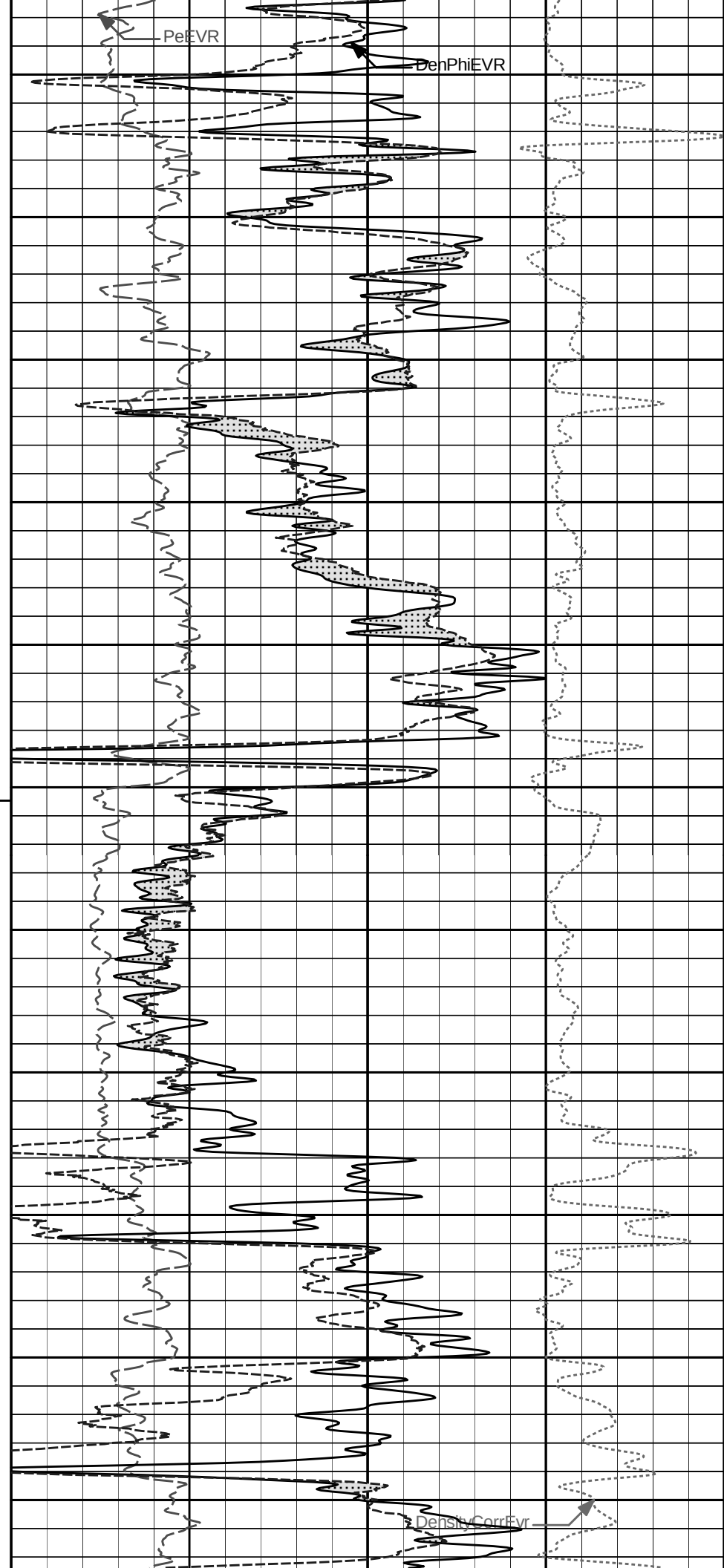
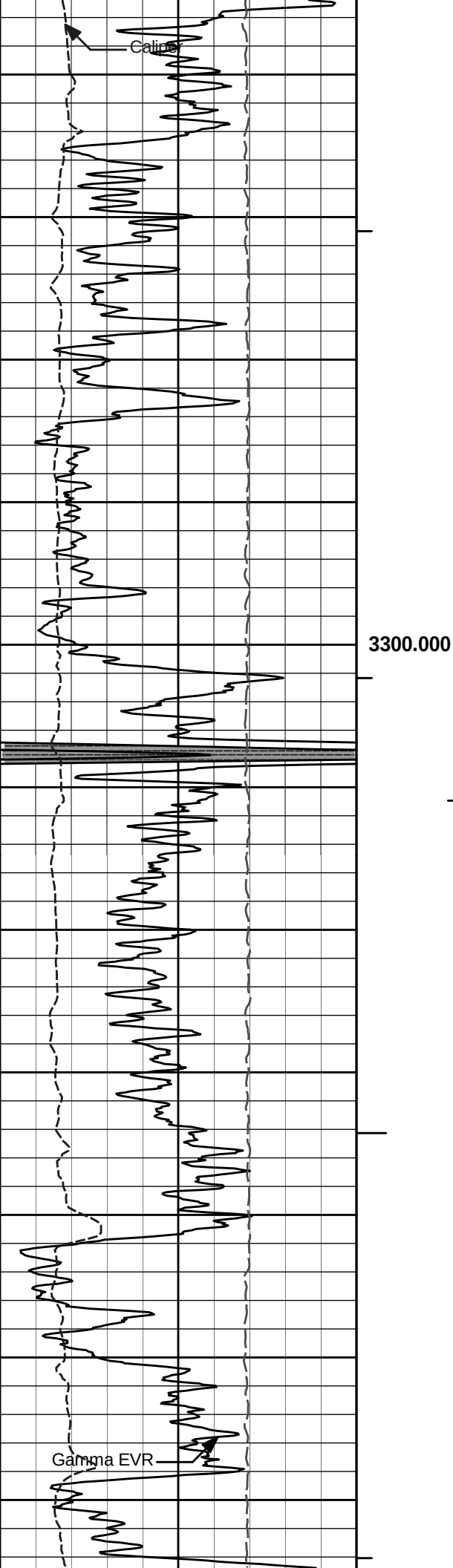


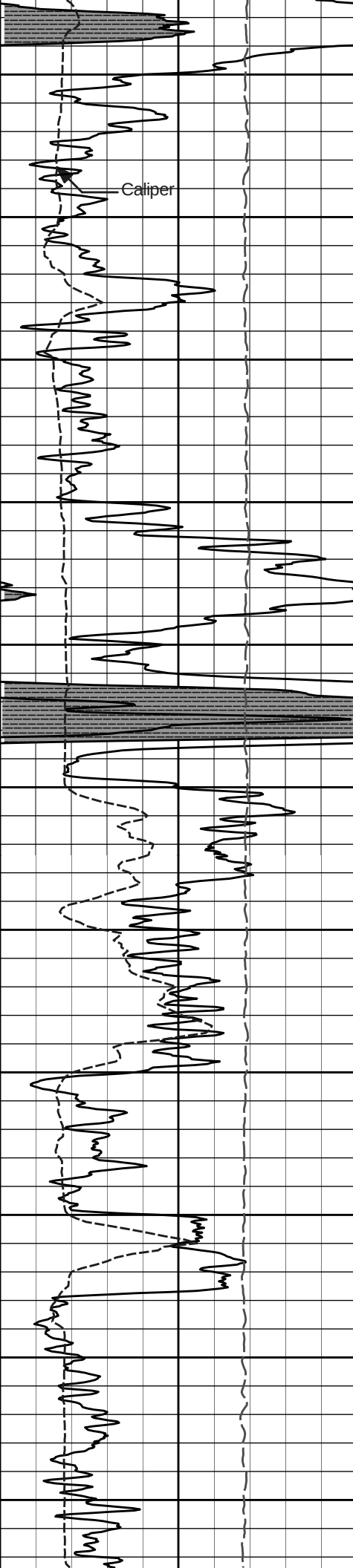




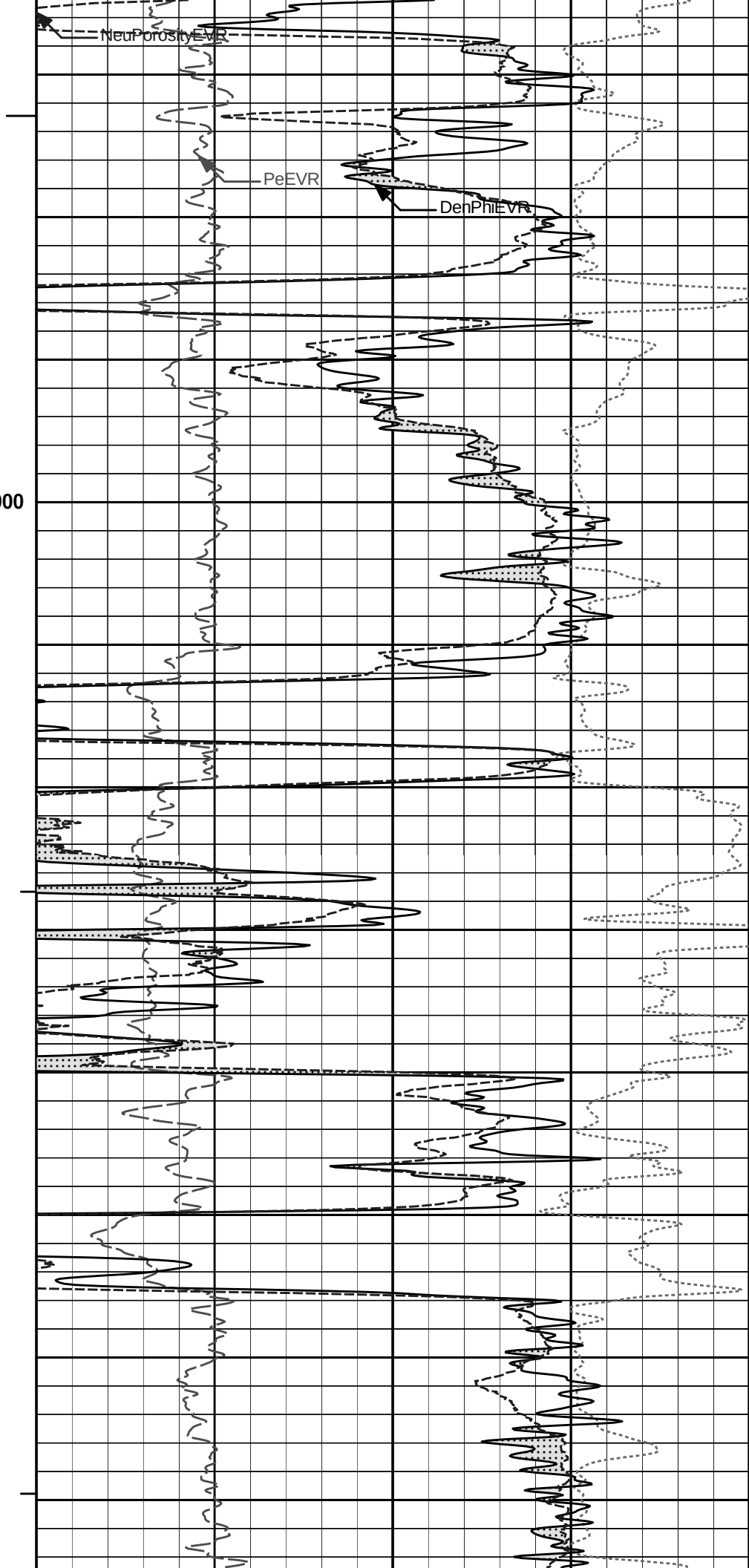
3200.000

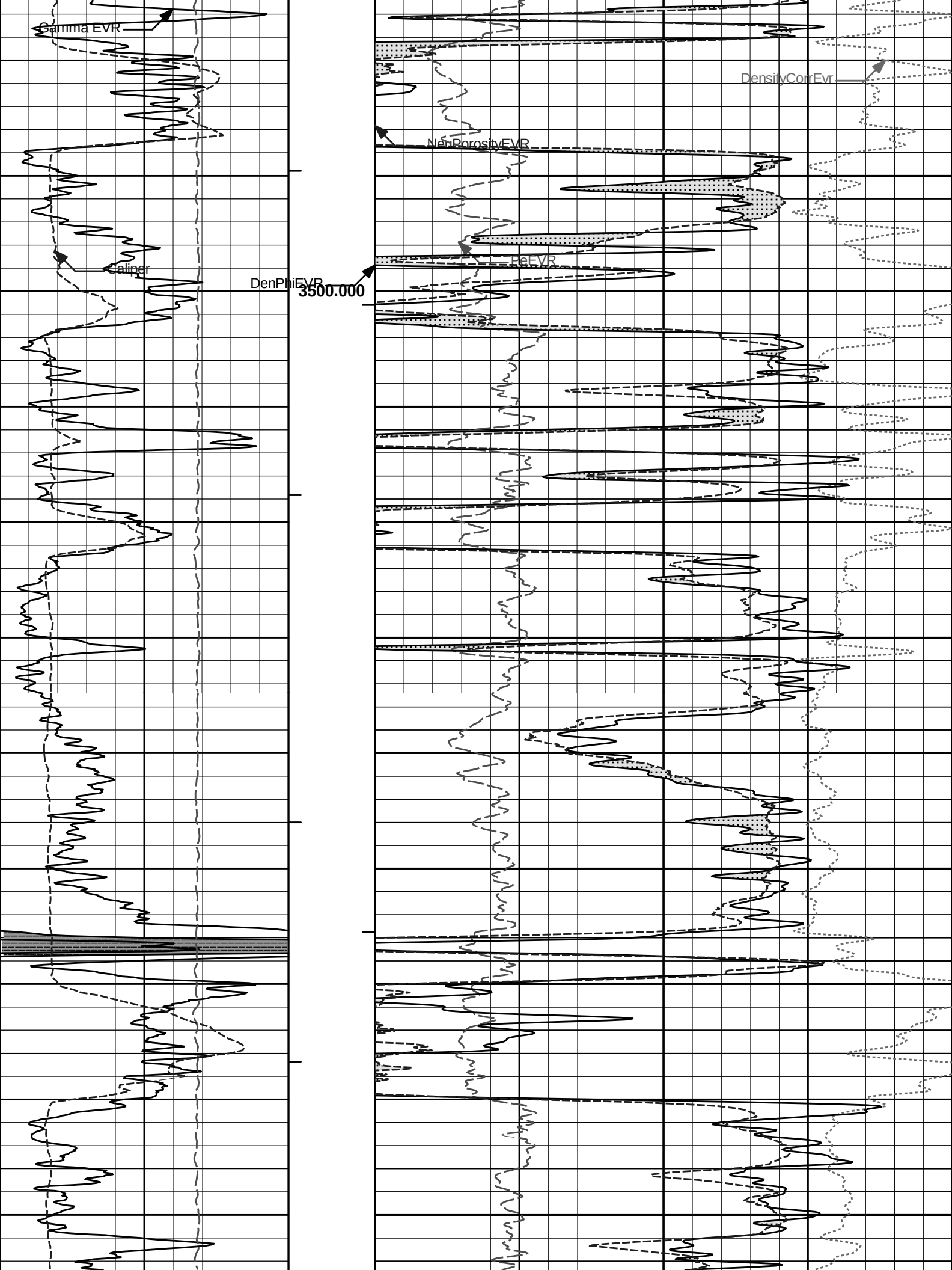


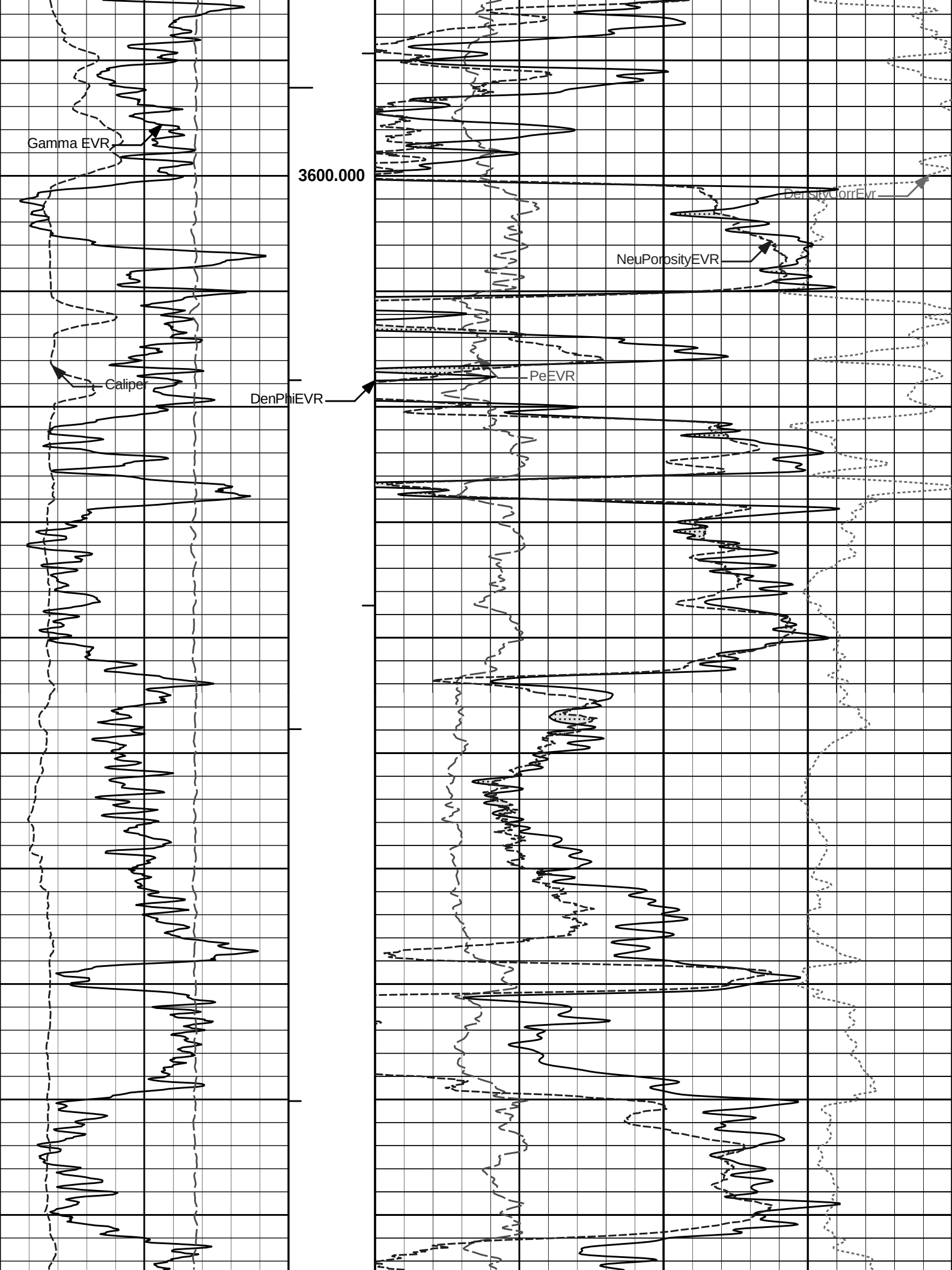


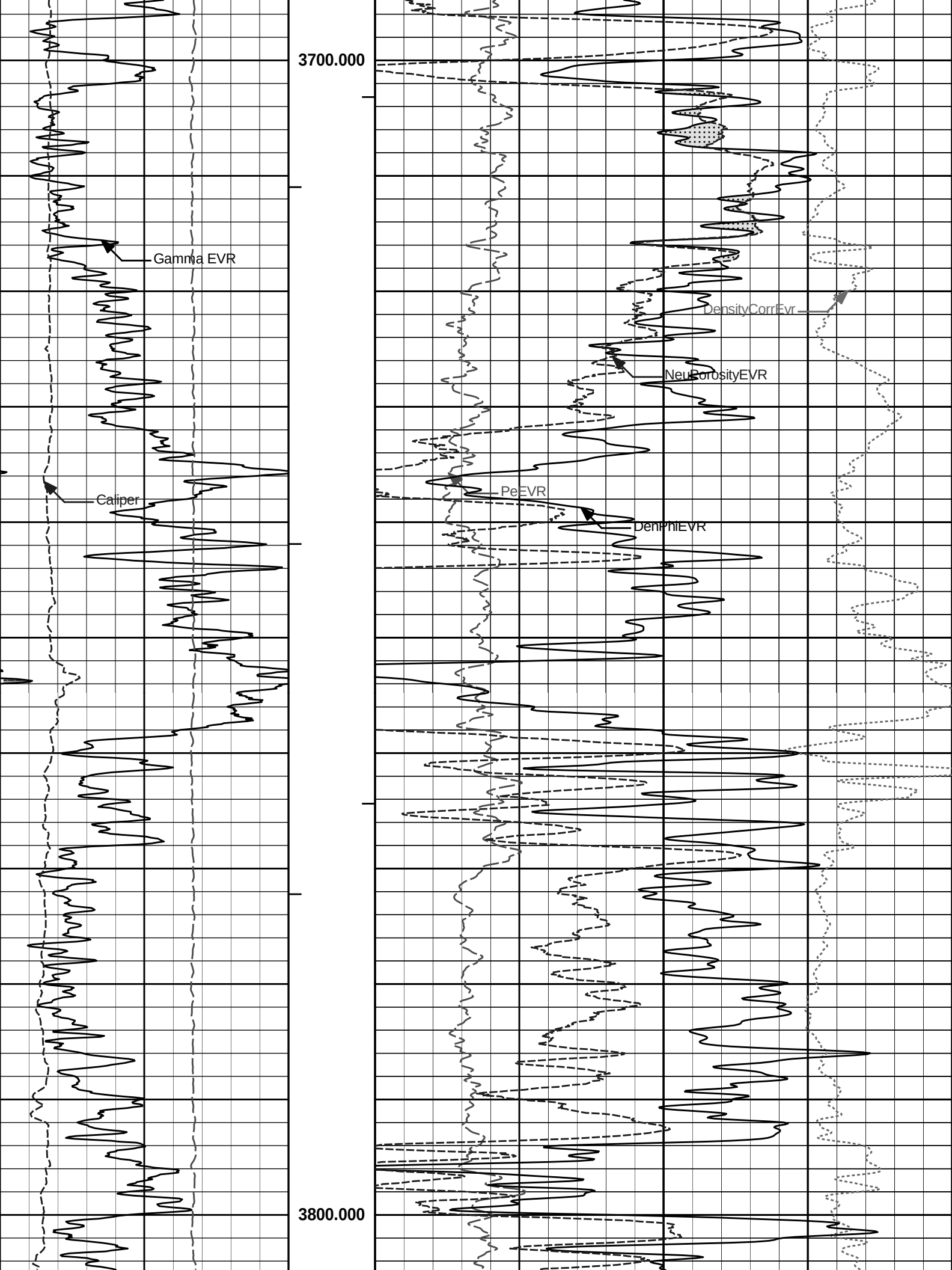


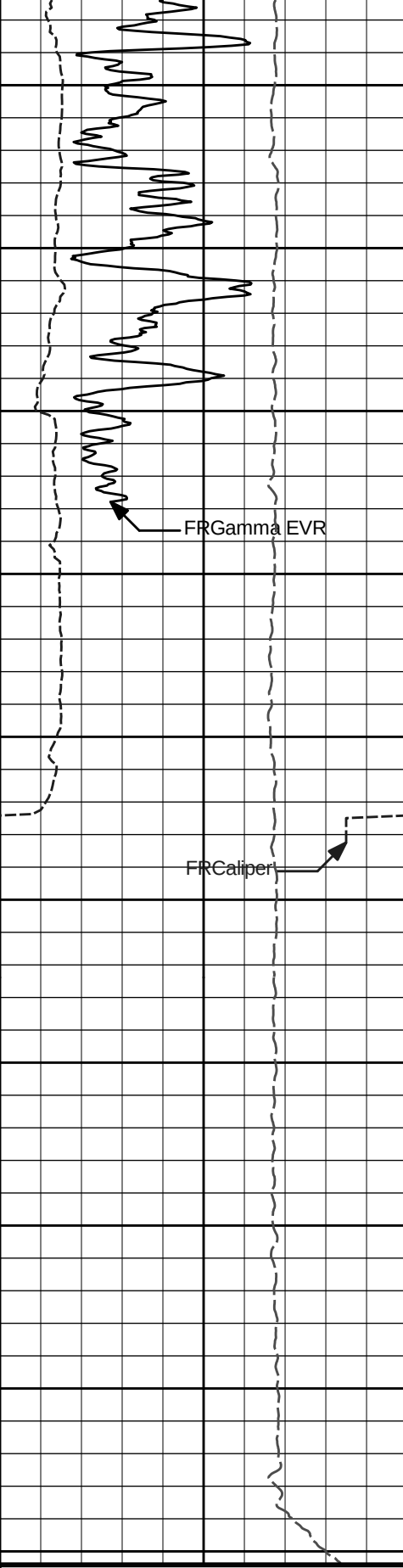
3400.000











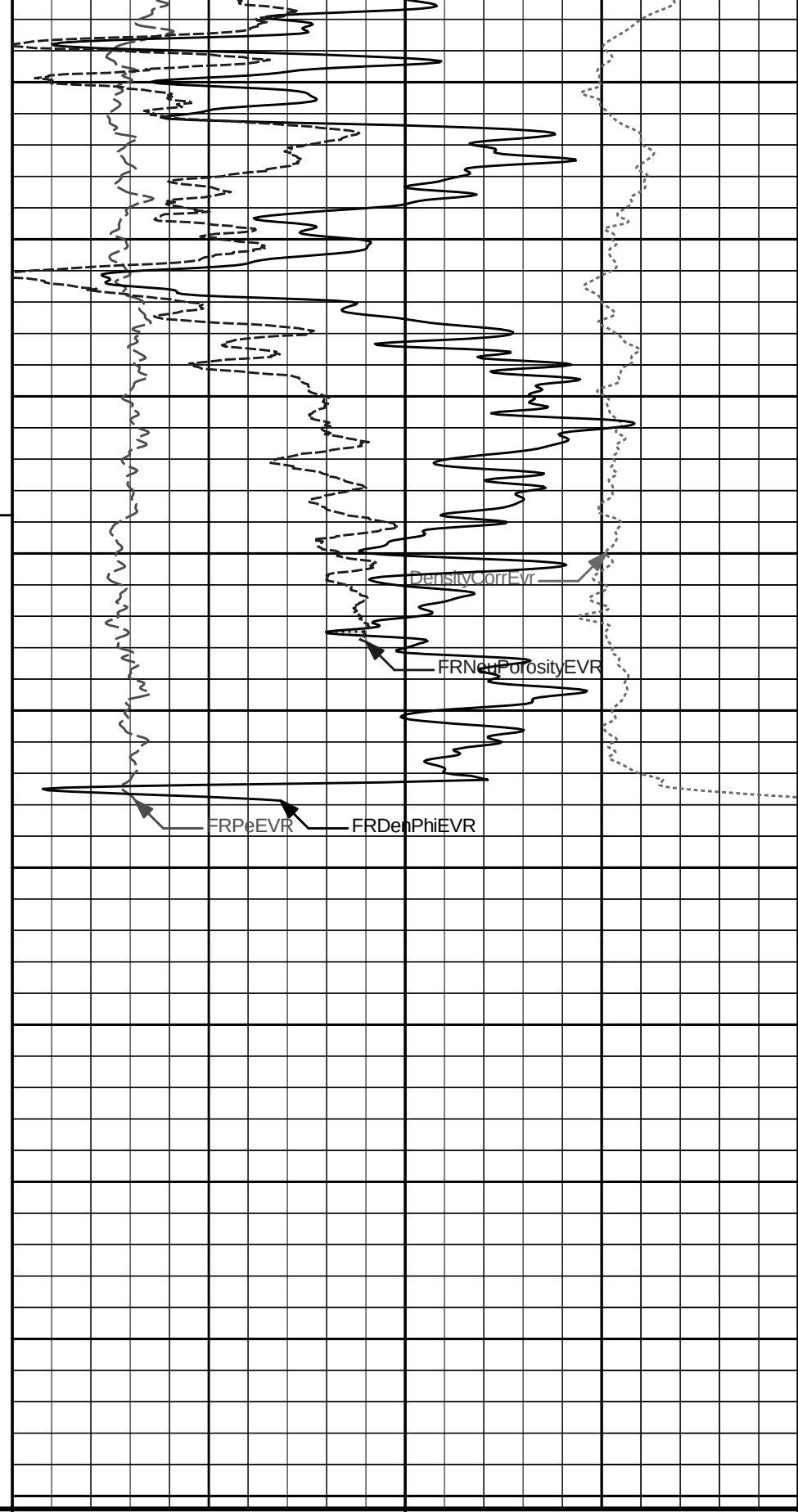
0	Gamma EVR	150
api		
6	Caliper	16
inches		
SHALE		

3900.000

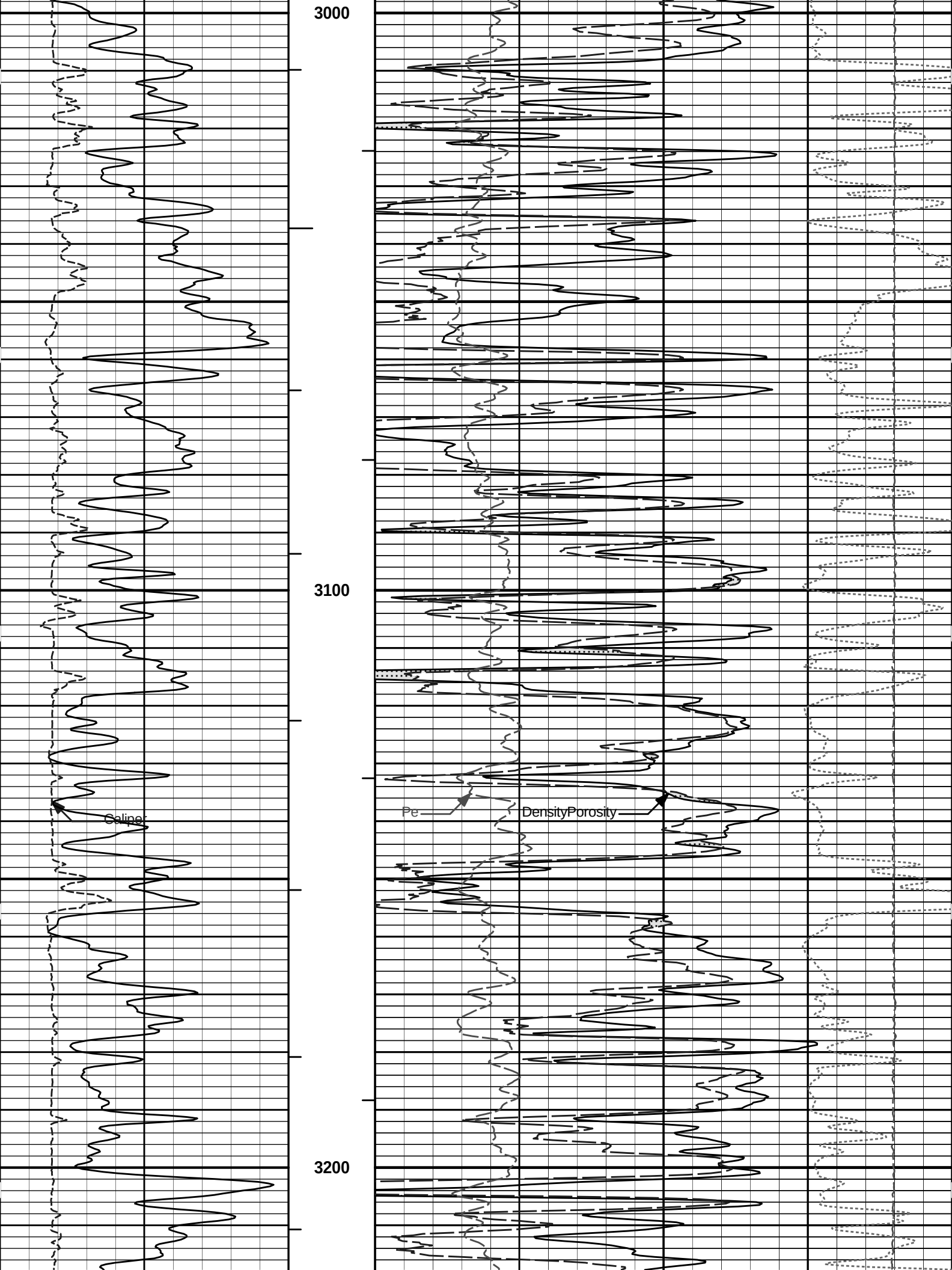
1 : 120
ft

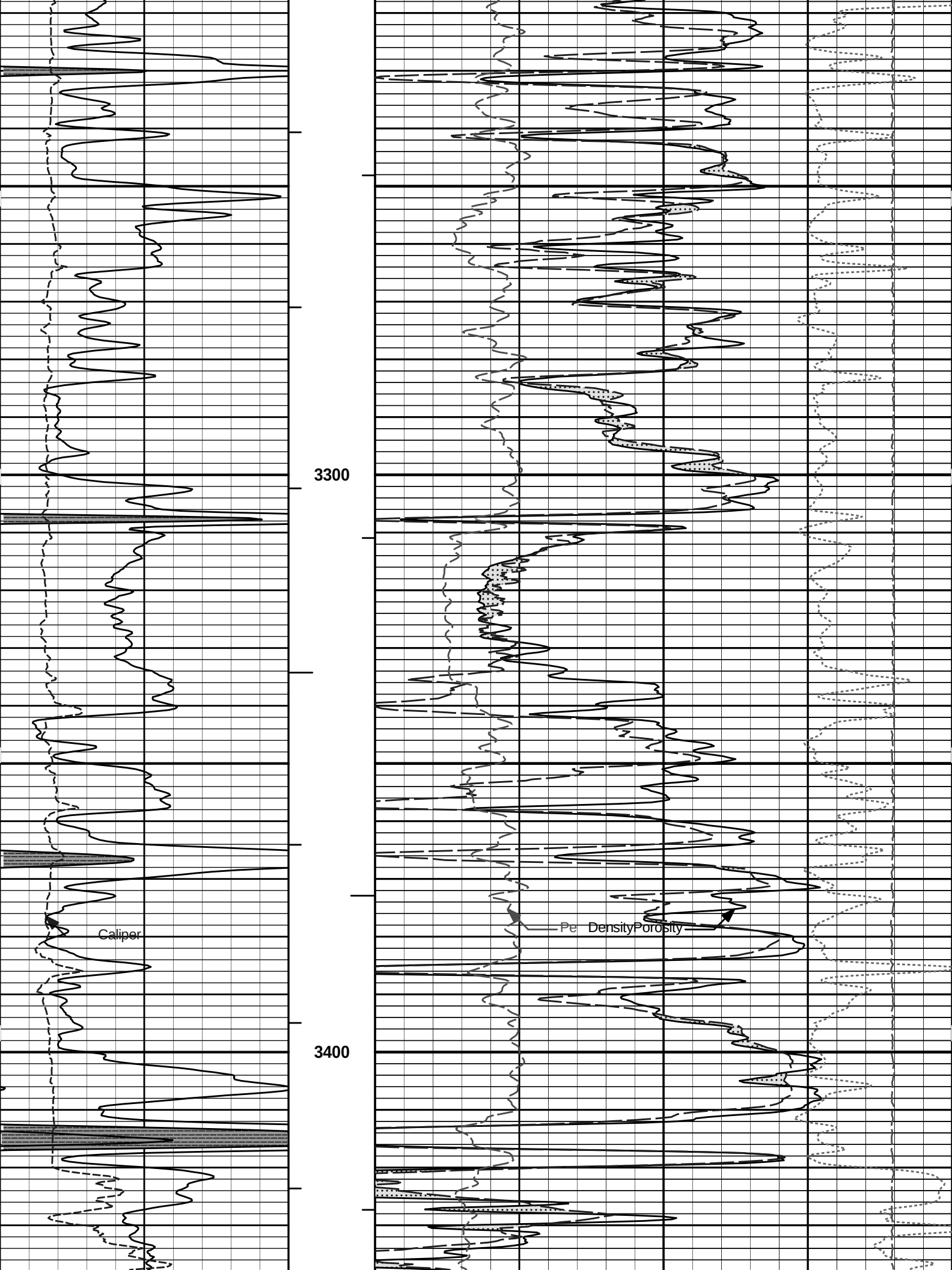
AHVT

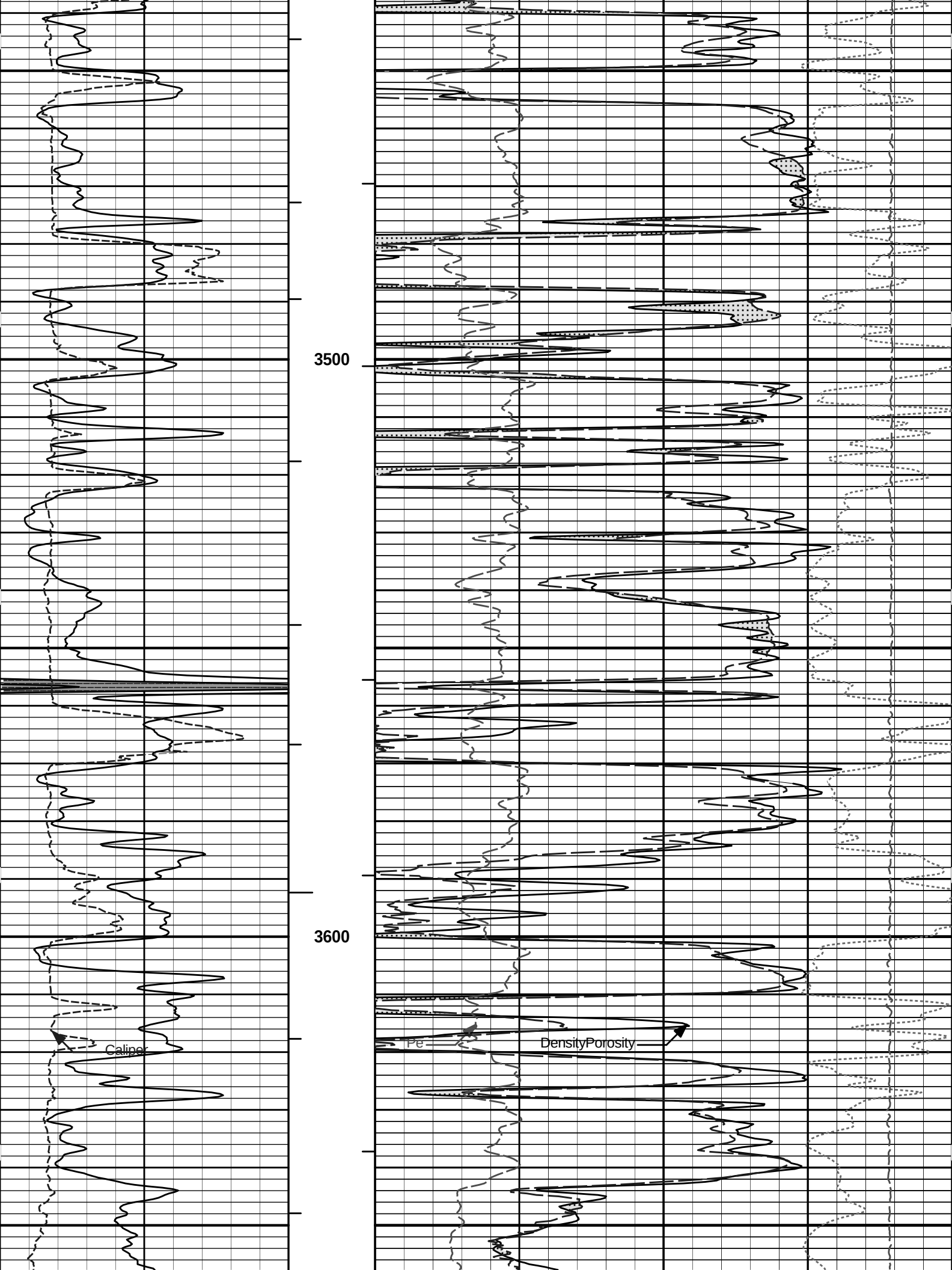
BHVT

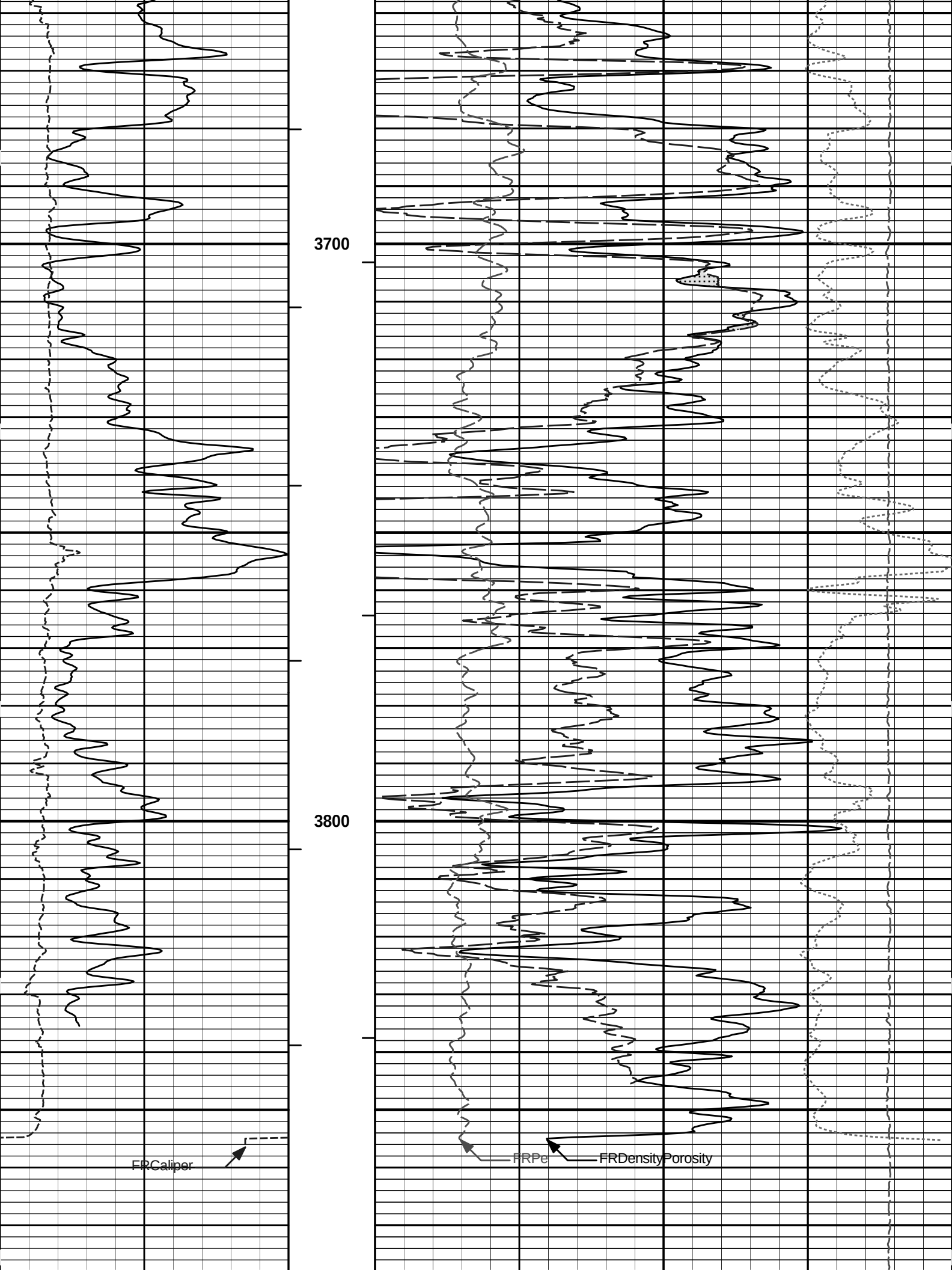


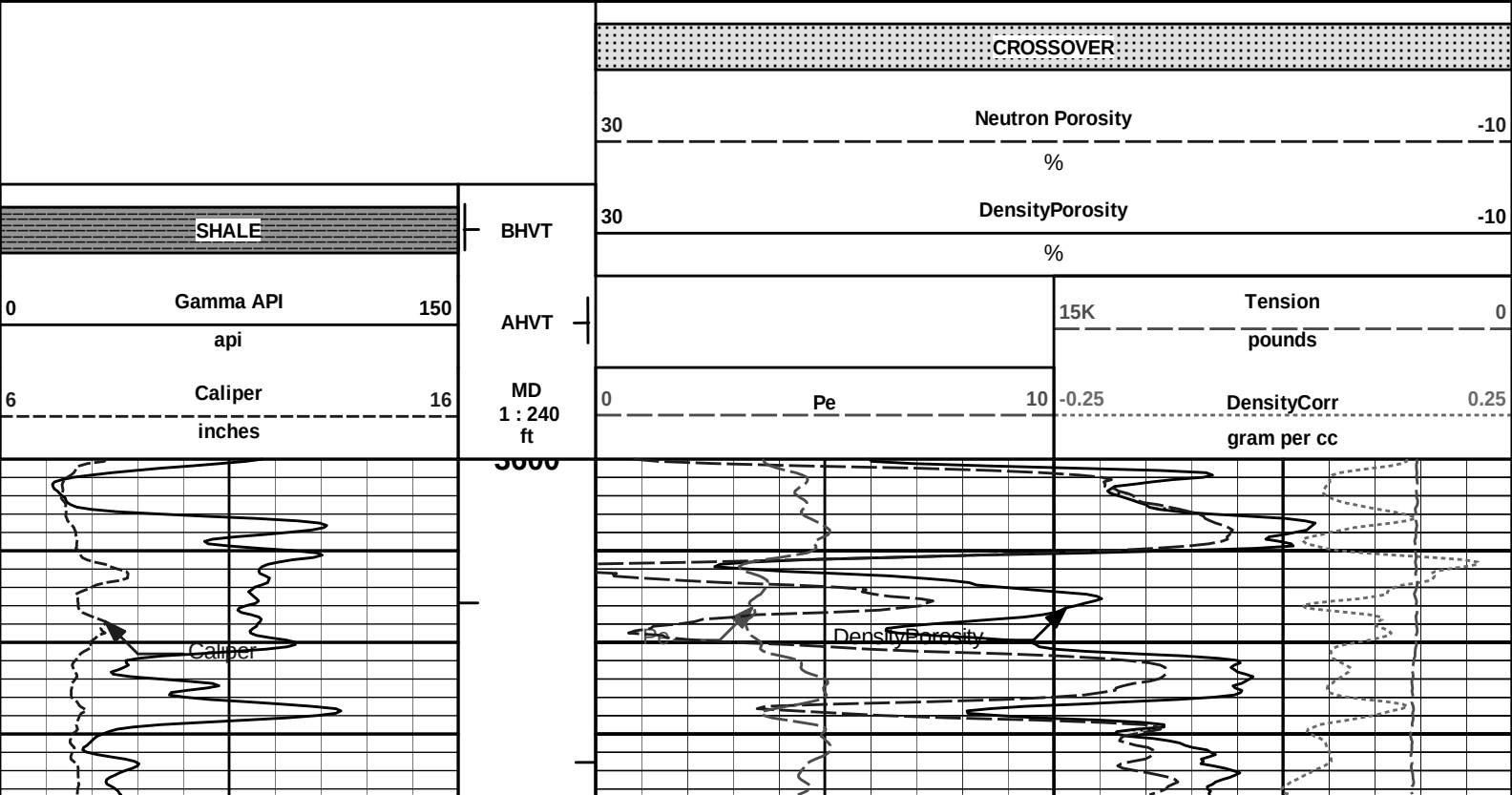
0	PeEVR	10	-0.25	DensityCorrEvr	0.25
			gram per cc		
30	DenPhiEVR				-10
%					
30	NeuPorosityEVR				-10
%					

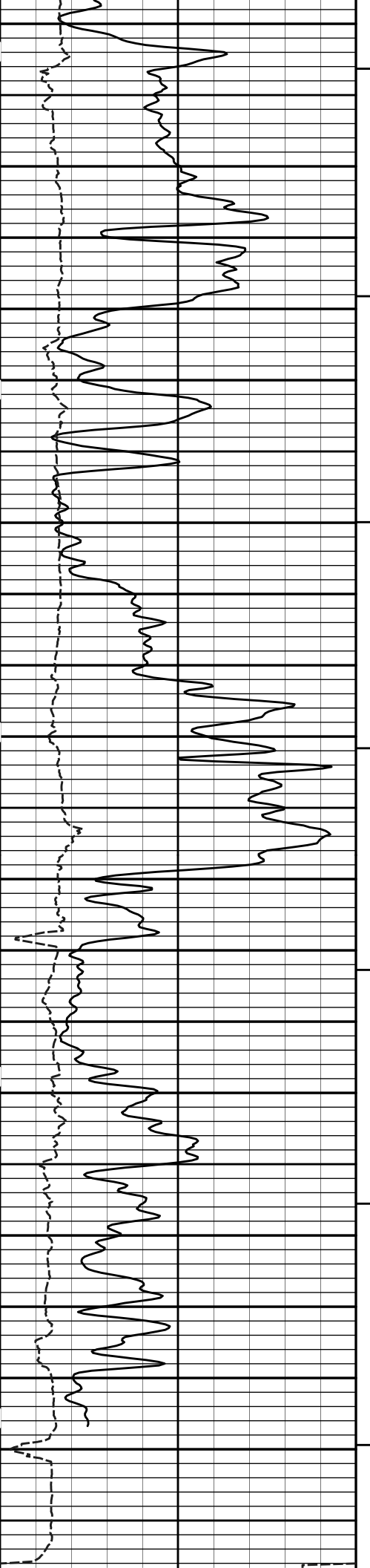






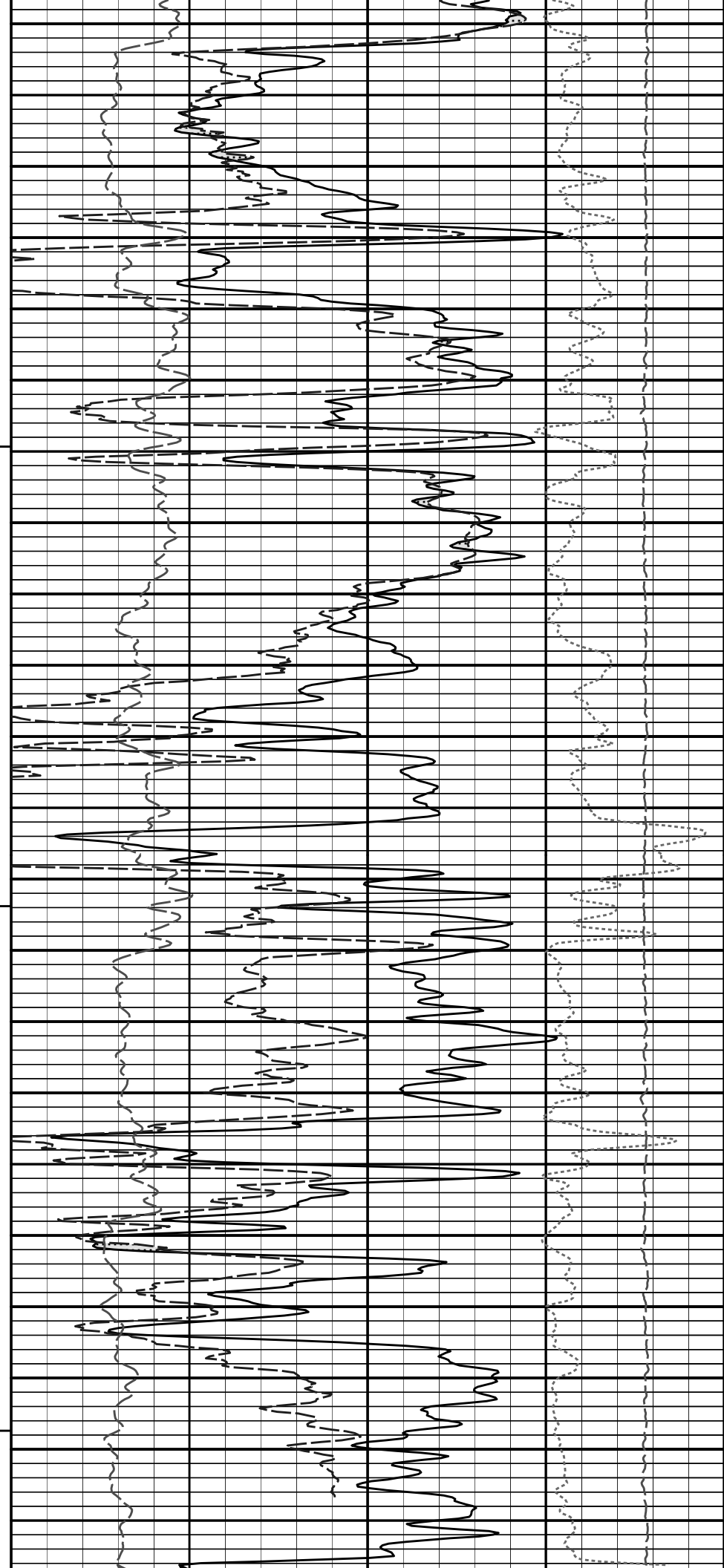


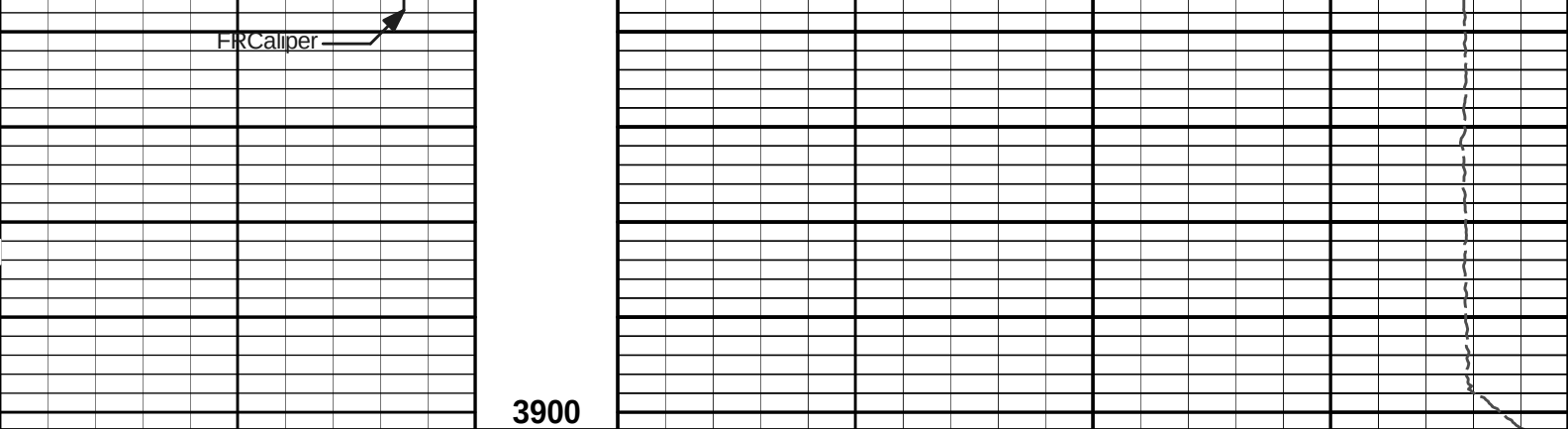




3700

3800





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

HALLIBURTON

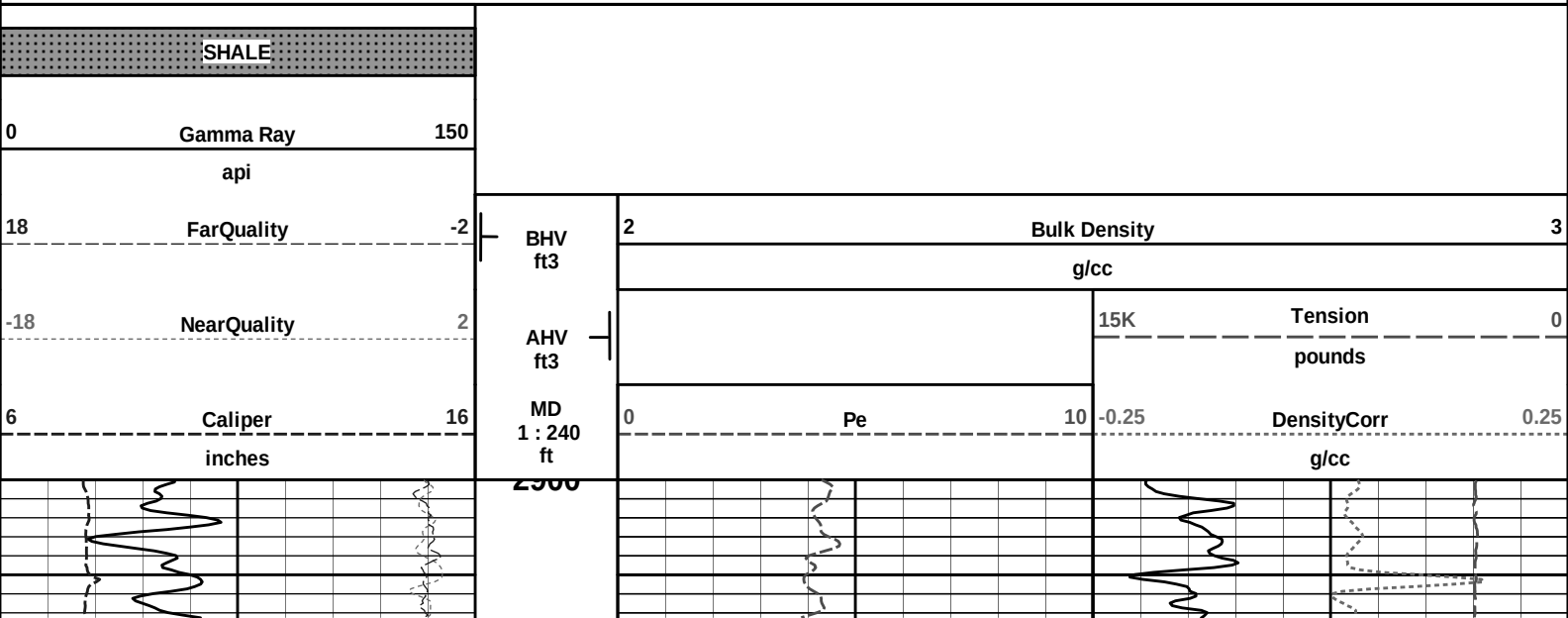
Plot Time: 19-Jul-13 00:10:51
Plot Range: 3600 ft to 3901.83 ft
Data: WILLIAM_TRUST\Well Based\REPEAT\
Plot File: \\PORO\Poros_IQ_5_REP_LIB

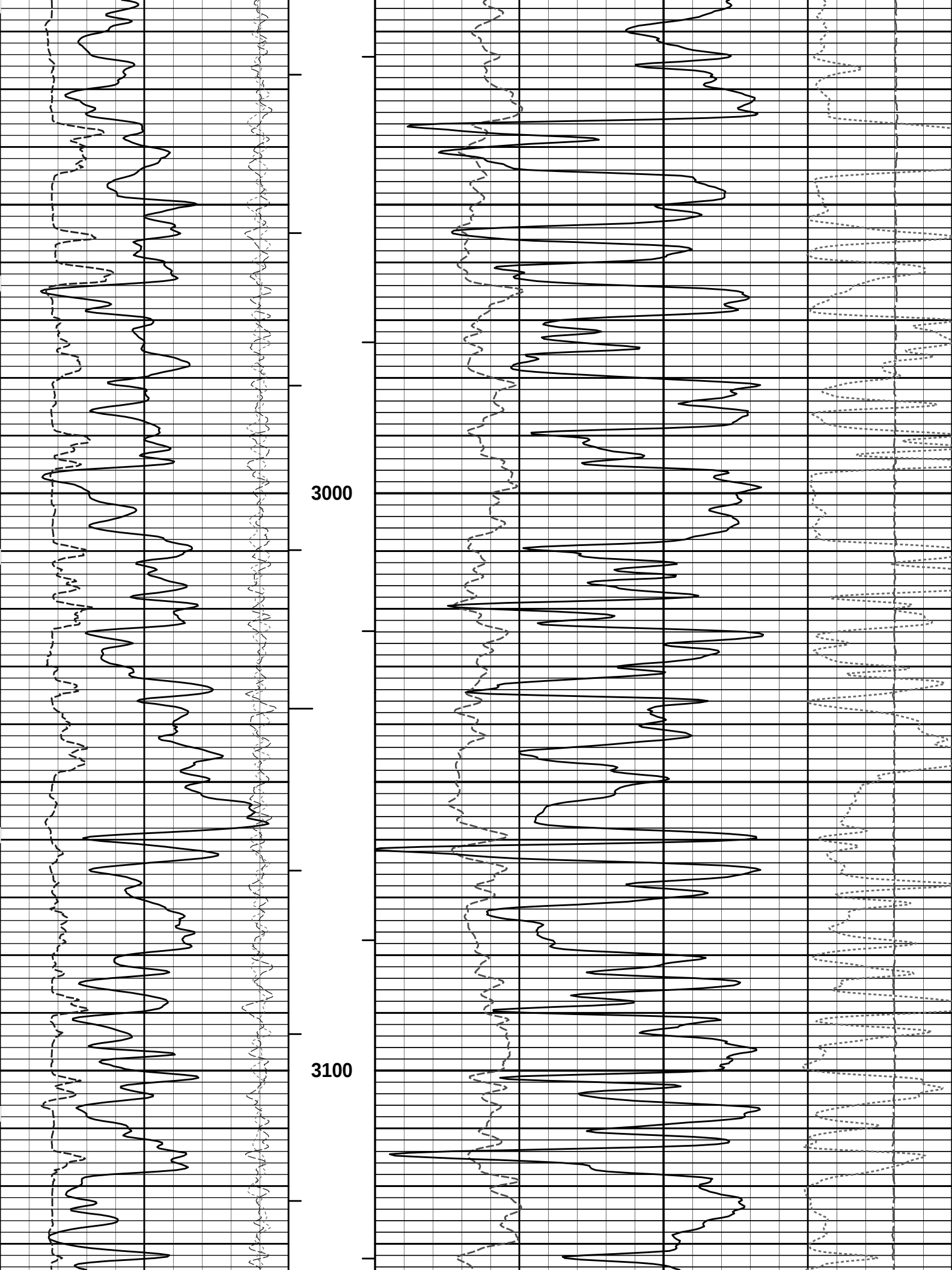
REPEAT SECTION

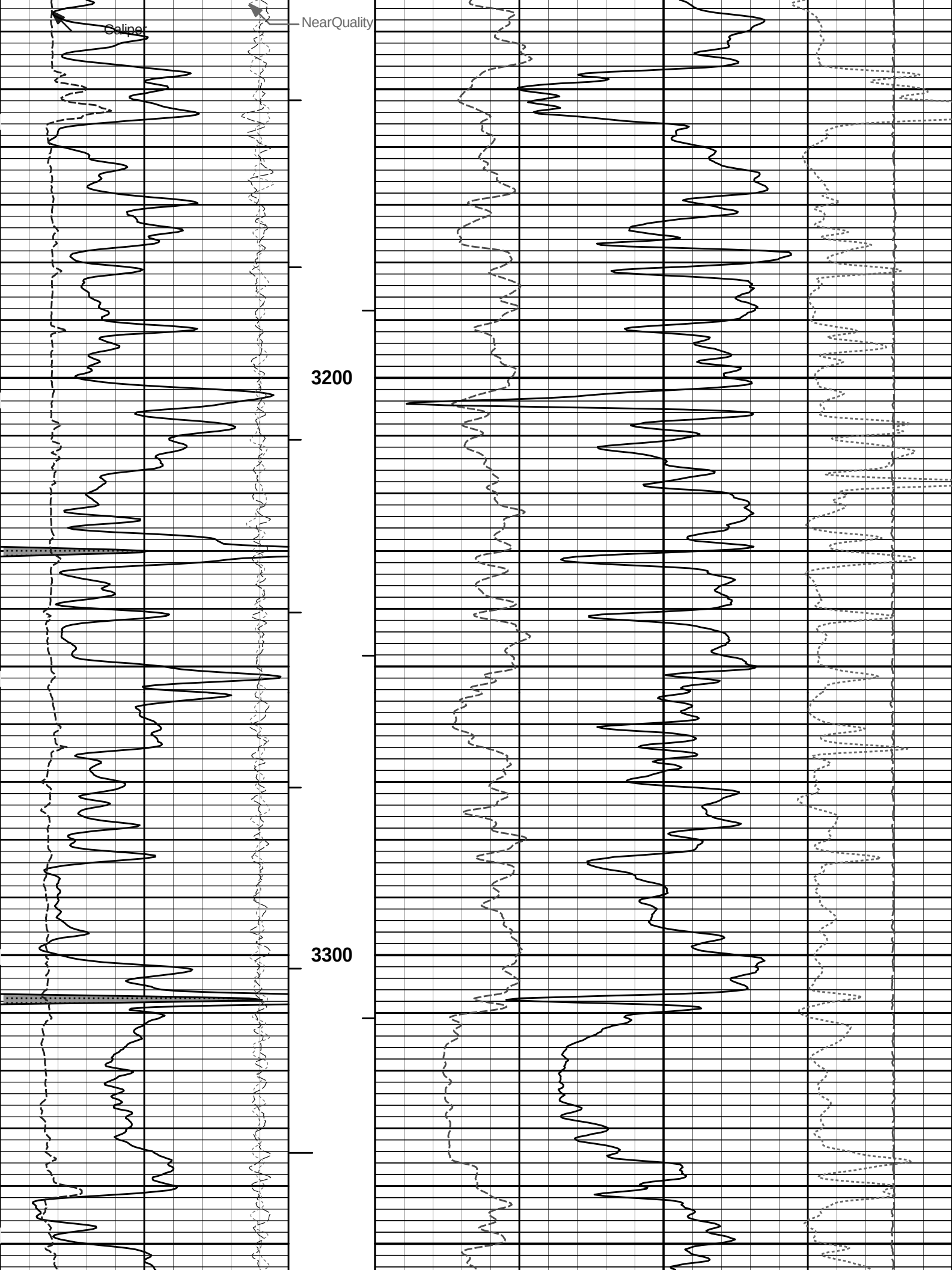
HALLIBURTON

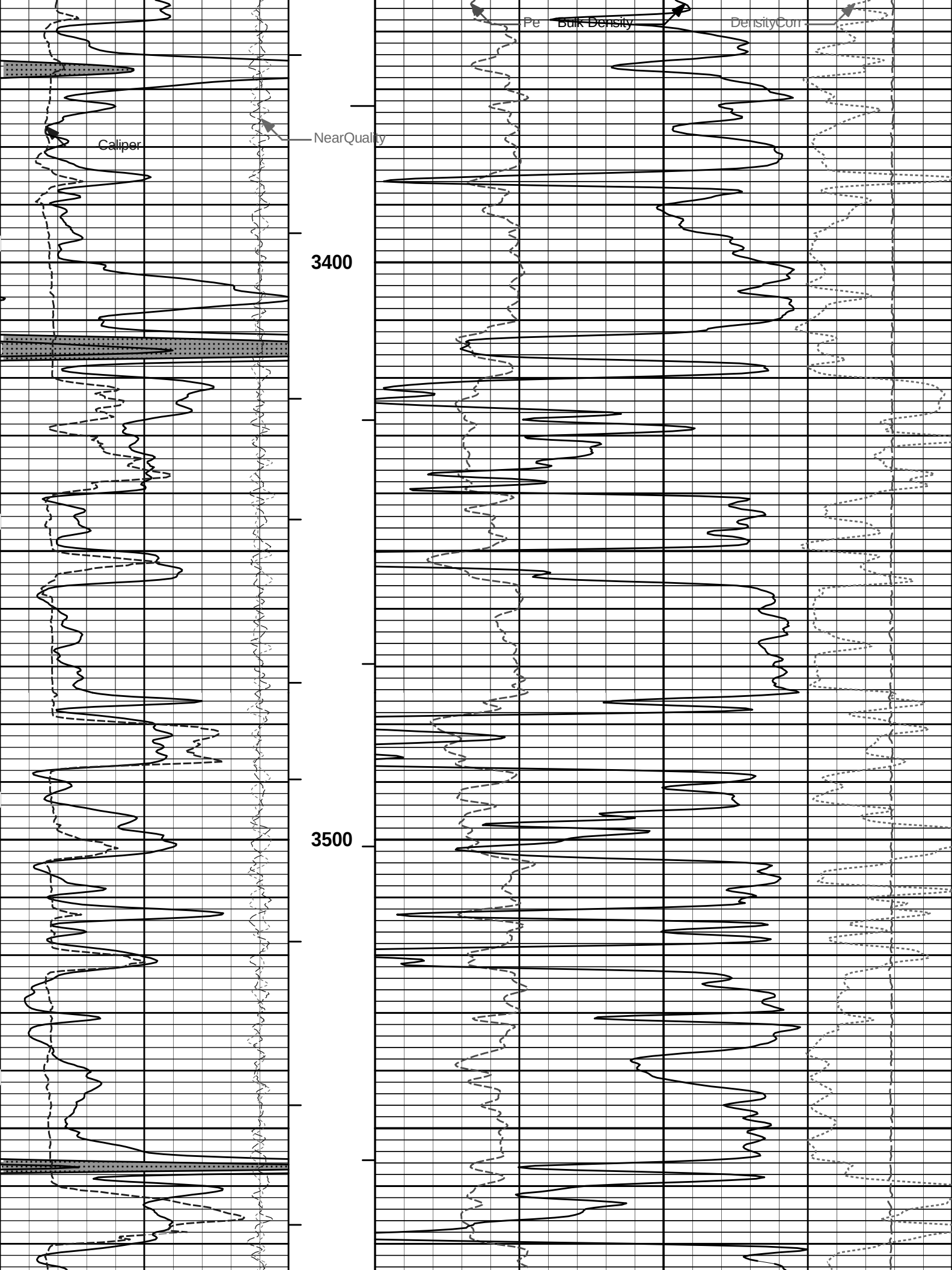
Plot Time: 19-Jul-13 00:10:51
Plot Range: 2900 ft to 3900.75 ft
Data: WILLIAM_TRUST\Well Based\DETAIL\
Plot File: \\LOCAL\WILLIAM_TRUST\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-CH\PORO\BULKD_5_MAIN_LIB

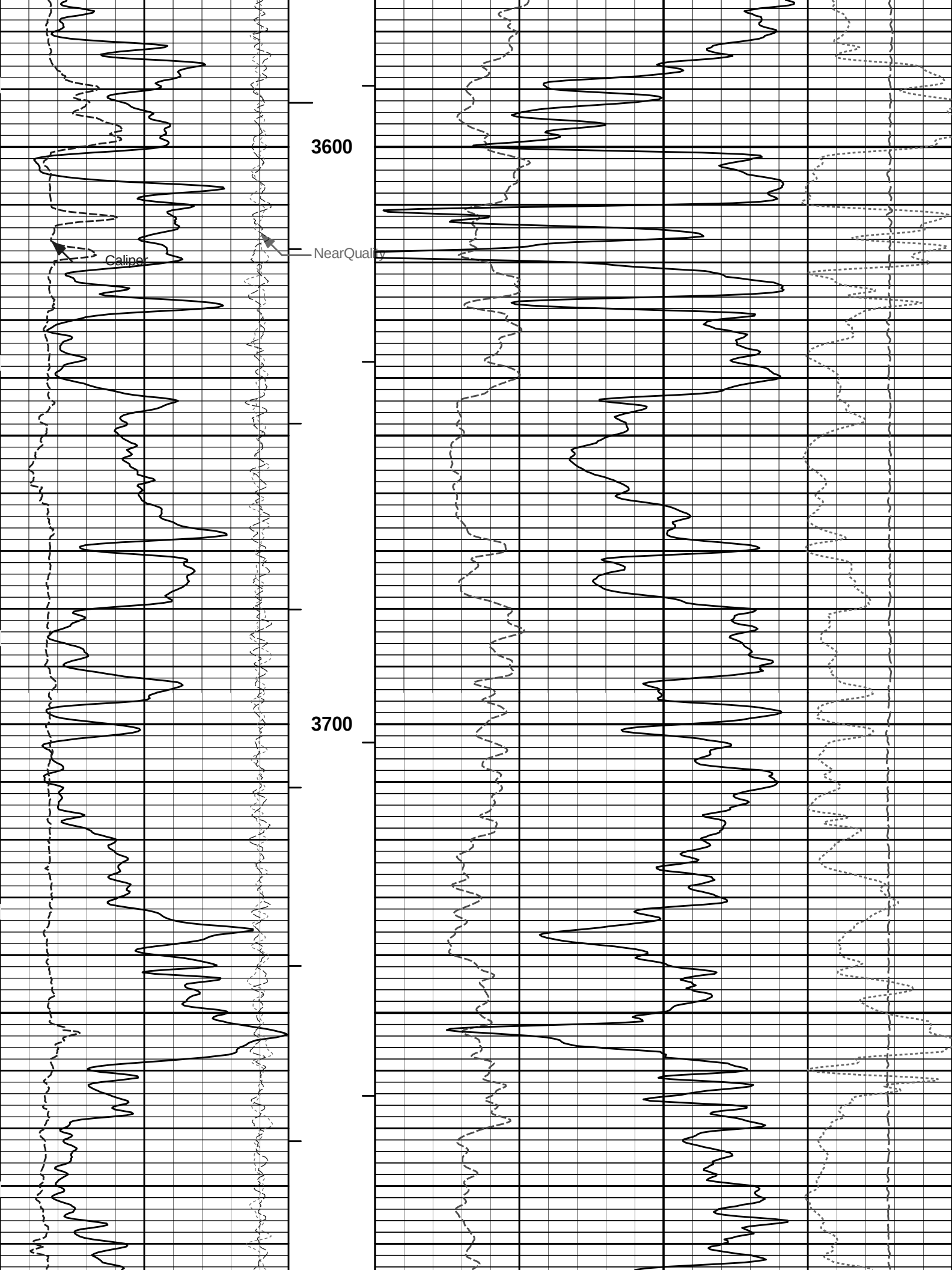
5 INCH MAIN LOG

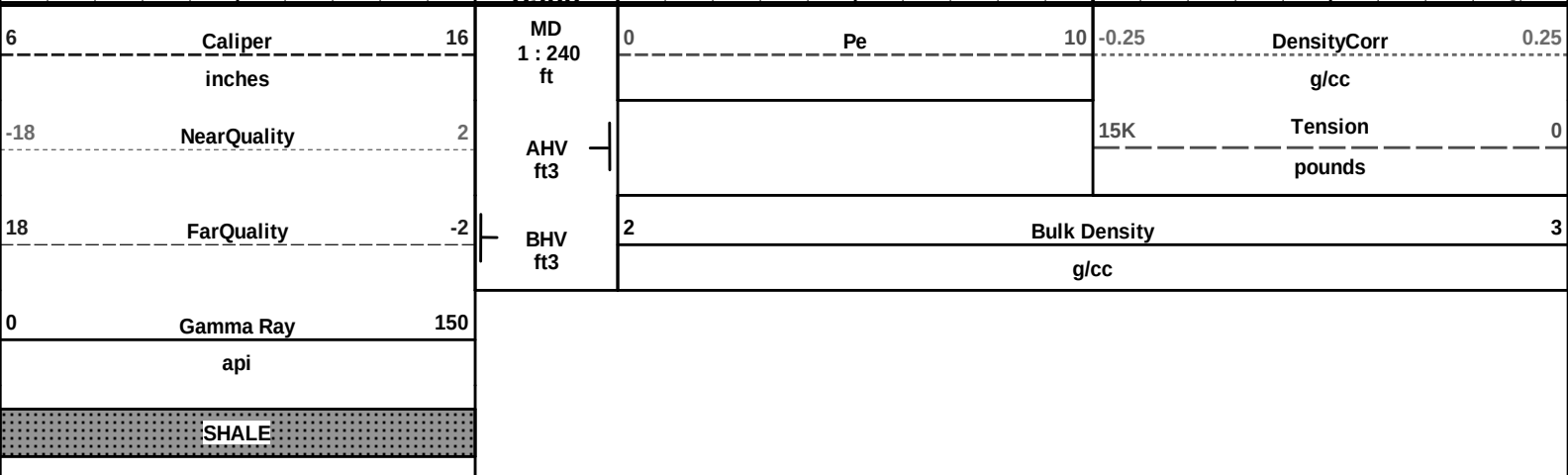










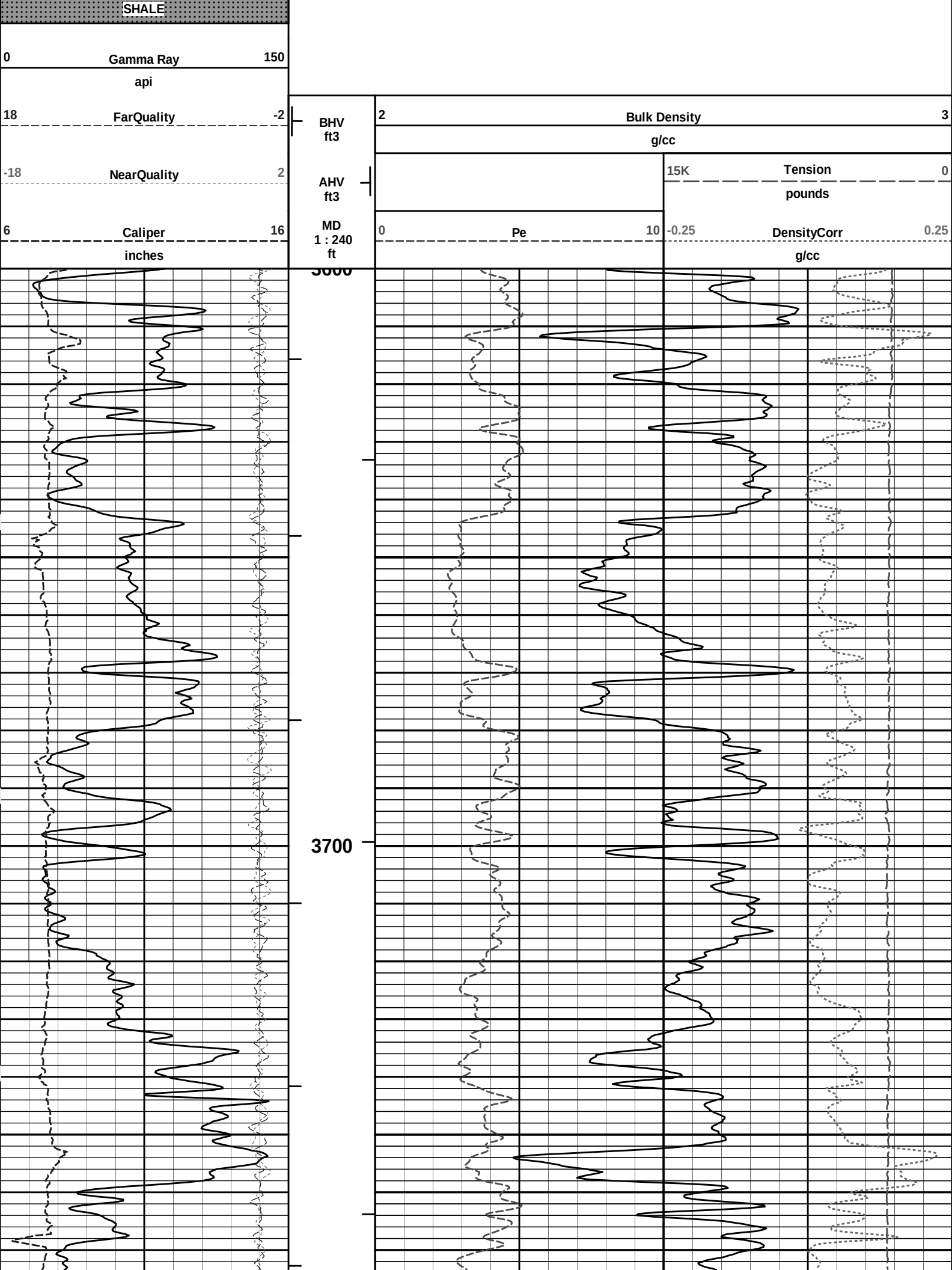


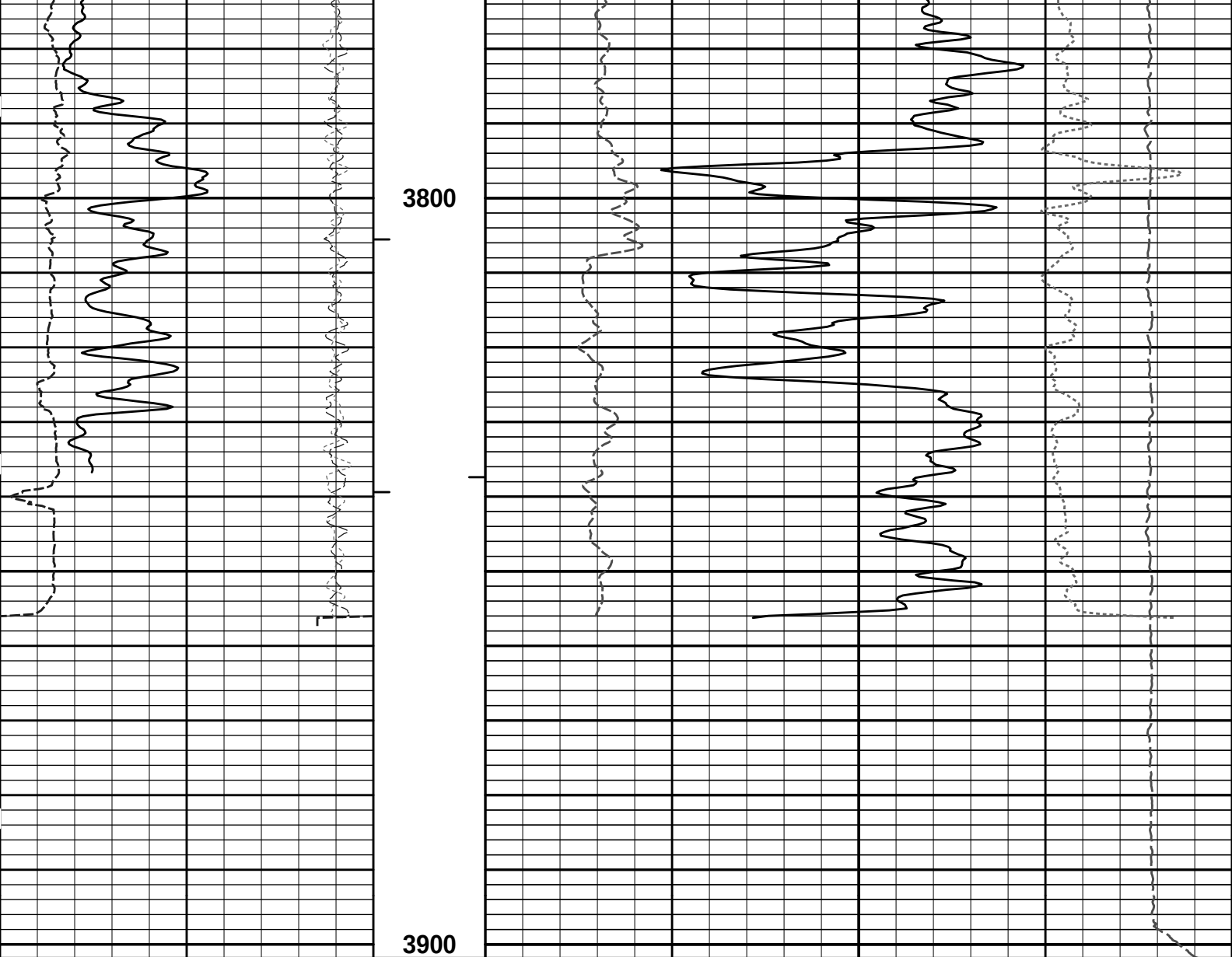
Plot Time: 19-Jul-13 00:10:56
Plot Range: 2900 ft to 3900.75 ft
Data: WILLIAM_TRUSTWell Based\DETAIL\
Plot File: \\LOCAL-WILLIAM_TRUST\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-CHIPORO\BULKD_5_MAIN_LIB

5 INCH MAIN LOG

Plot Time: 19-Jul-13 00:10:56
Plot Range: 3600 ft to 3901.83 ft
Data: WILLIAM_TRUSTWell Based\REPEAT\
Plot File: \\LOCAL\WILLIAM_TRUST\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-CHIPORO\BULKD_5_REP_LIB

REPEAT SECTION





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

HALLIBURTON

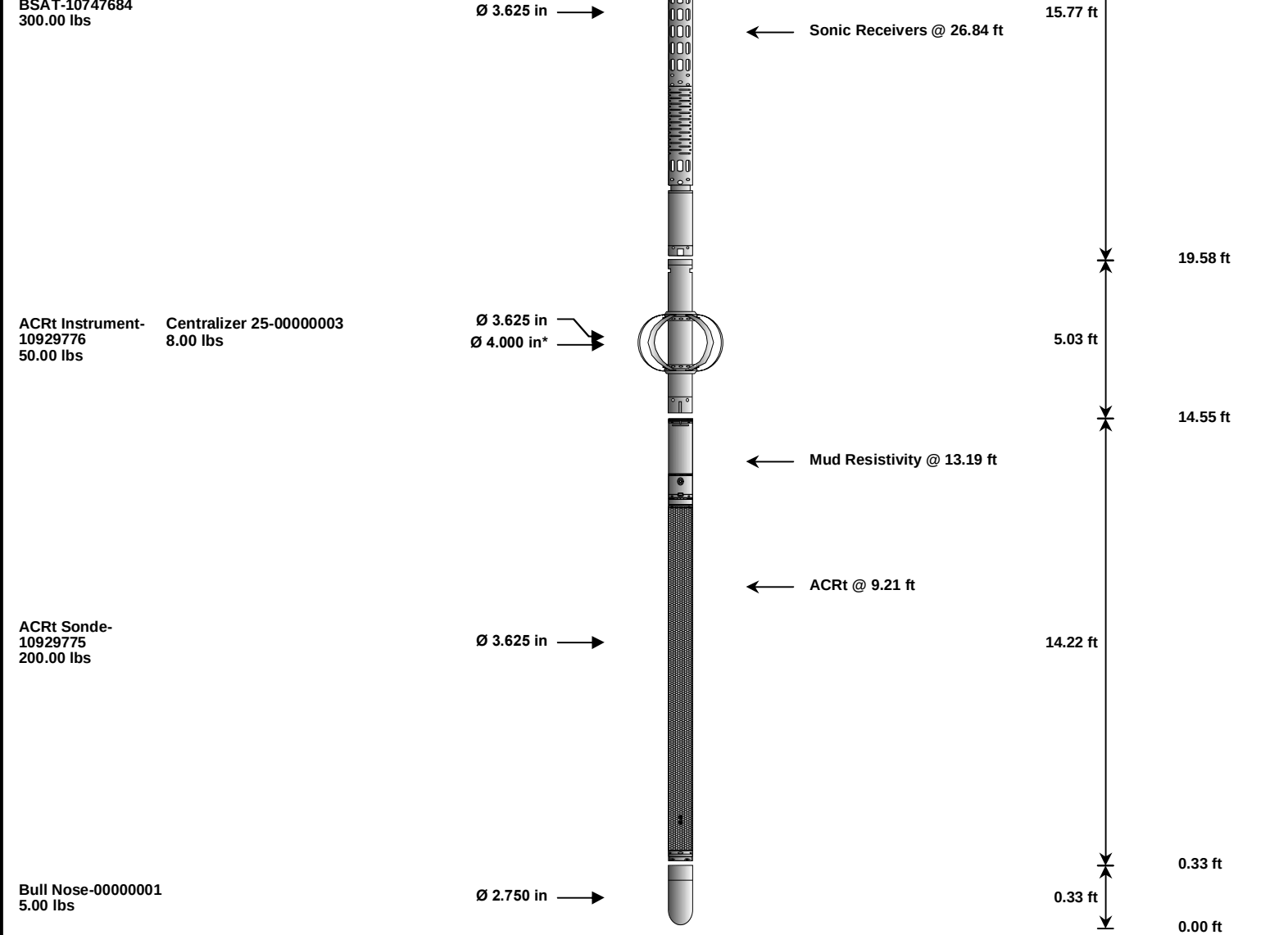
Plot Time: 19-Jul-13 00:10:59
Plot Range: 3600 ft to 3901.83 ft
Data: WILLIAM_TRUST\Well Based\REPEAT\
Plot File: \\-LOCAL-WILLIAM_TRUST\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-CHIPORO\BULKD_5_REP_LIB

REPEAT SECTION

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
CH_HOS-954 37.50 lbs		Ø 2.750 in →		← Temperature @ 76.74 ft	3.03 ft	77.77 ft
XOHD-00000001 20.00 lbs		Ø 2.750 in → Ø 3.625 in →			0.95 ft	74.74 ft
SP Sub-12345678 60.00 lbs		Ø 3.625 in →		← SP @ 72.01 ft	3.74 ft	73.79 ft
						70.05 ft
GTET-10811258 165.00 lbs		Ø 3.625 in →		← GammaRay @ 63.99 ft	8.52 ft	
	DSN Decentralizer - Large Hole-00000001 6.60 lbs	Ø 5.000 in* →				61.53 ft
DSNT-10755066 174.00 lbs		Ø 3.625 in →		← DSN Far @ 54.59 ft ← DSN Near @ 53.84 ft	9.69 ft	
						51.84 ft
SDLT-10685803 360.00 lbs	SDLT Pad-10673790 65.00 lbs Microlog Pad-10685803 8.00 lbs	Ø 4.500 in → Ø 4.750 in* → Ø 4.750 in* →		Microlog @ 44.03 ft SDL Caliper @ 43.84 ft SDL @ 43.83 ft	10.81 ft	
						41.03 ft
IQ Flex-10000954 140.00 lbs		Ø 3.625 in →			5.67 ft	
	Centralizer 25-00000002 8.00 lbs	Ø 4.000 in* →				35.36 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	954	37.50	3.03	74.74	300.00	
XOHD	Hostile to Dits Cross Over	00000001	20.00	0.95	73.79	300.00	
SP	SP Sub	12345678	60.00	3.74	70.05	300.00	
GTET	Gamma Telemetry Tool	10811258	165.00	8.52	61.53	60.00	
DSNT	Dual Spaced Neutron	10755066	174.00	9.69	51.84	60.00	
DCNT	DSN Decentralizer Large Hole	00000001	6.60	9.42	*	55.17	300.00
SDLT	Spectral Density Tool	10685803	360.00	10.81	41.03	60.00	
MICP	Microlog Pad	10685803	8.00	1.00	*	43.53	60.00
SDLP	Density Insite Pad	10673790	65.00	2.55	*	43.24	60.00
IQF	IQ Flex tool	10000954	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	00000002	8.00	2.08	*	32.51	300.00
ACRt	Array Compensated True Resistivity Instrument Section	10929776	50.00	5.03	14.55	300.00	
OBCEN	Centralizer - 25 in. Overbody	00000003	8.00	2.08	*	15.87	300.00
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			1,607.10	77.77			
* Not included in Total Length and Length Accumulation.							
Data: WILLIAM_TRUST\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-CHIDLE					Date: 18-Jul-13 21:45:33		

NATURAL GAMMA RAY TOOL SHOP CALIBRATION																				
Tool Name:	GTET - 10811258		Reference Calibration Date:	05-Jun-13 10:17:04																
Engineer:	S. INGERSOLL		Calibration Date:	01-Jul-13 12:19:31																
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																				
<table><tr><th>Measurement</th><th>Measured</th><th>Calibrated</th><th>Units</th></tr><tr><td>Background</td><td>35.8</td><td>34.7</td><td>api</td></tr><tr><td>Background + Calibrator</td><td>274.6</td><td>266.7</td><td>api</td></tr><tr><td>Calibrator</td><td>238.8</td><td>232.0</td><td>api</td></tr></table>					Measurement	Measured	Calibrated	Units	Background	35.8	34.7	api	Background + Calibrator	274.6	266.7	api	Calibrator	238.8	232.0	api
Measurement	Measured	Calibrated	Units																	
Background	35.8	34.7	api																	
Background + Calibrator	274.6	266.7	api																	
Calibrator	238.8	232.0	api																	

NATURAL GAMMA RAY TOOL FIELD CALIBRATION																				
Tool Name:	GTET - 10811258		Reference Calibration Date:	01-Jul-13 12:19:31																
Engineer:	J. BOLLLOM		Calibration Date:	17-Jul-13 10:53:59																
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																				
<table><tr><th>Field Verification</th><th>Shop</th><th>Field</th><th>Units</th></tr><tr><td>Background</td><td>34.7</td><td>41.7</td><td>api</td></tr><tr><td>Background + Calibrator</td><td>266.7</td><td>268.2</td><td>api</td></tr><tr><td>Calibrator</td><td>232.0</td><td>226.6</td><td>api</td></tr></table>					Field Verification	Shop	Field	Units	Background	34.7	41.7	api	Background + Calibrator	266.7	268.2	api	Calibrator	232.0	226.6	api
Field Verification	Shop	Field	Units																	
Background	34.7	41.7	api																	
Background + Calibrator	266.7	268.2	api																	
Calibrator	232.0	226.6	api																	
<table><tr><th>Shop</th><th>Field</th><th>Difference</th><th>Tolerance</th></tr><tr><td>232.0</td><td>226.6</td><td>5.4</td><td>+/- 9.00</td></tr></table>					Shop	Field	Difference	Tolerance	232.0	226.6	5.4	+/- 9.00								
Shop	Field	Difference	Tolerance																	
232.0	226.6	5.4	+/- 9.00																	

DUAL SPACED NEUTRON SHOP CALIBRATION																								
Tool Name:	DSNT - 10755066		Reference Calibration Date:	19-May-13 13:08:19																				
Engineer:	S. INGERSOLL		Calibration Date:	01-Jul-13 16:27:31																				
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: 08910 Calibration Tank Water Temperature: 62 degF Min. Tool Housing Outside Diameter: 3.620 in																								
<table><tr><th colspan="4">CALIBRATION CONSTANTS</th></tr><tr><th>Measurement</th><th>Prev. Value</th><th>New Value</th><th>Control Limit On New Value</th></tr><tr><td>Gain:</td><td>0.953</td><td>0.952</td><td>0.900 - 1.100</td></tr></table>					CALIBRATION CONSTANTS				Measurement	Prev. Value	New Value	Control Limit On New Value	Gain:	0.953	0.952	0.900 - 1.100								
CALIBRATION CONSTANTS																								
Measurement	Prev. Value	New Value	Control Limit On New Value																					
Gain:	0.953	0.952	0.900 - 1.100																					
<table><tr><th colspan="5">WATER TANK SUMMARY (Horizontal Water Tank)</th></tr><tr><th>Measurement</th><th>Current Reading (Previous Coef.)</th><th>Calibrated (New Coef.)</th><th>Change</th><th>Control Limit On Change</th></tr><tr><td>Porosity (decp):</td><td>0.2110</td><td>0.2106</td><td>0.0003</td><td>+/- 0.0020</td></tr><tr><td>Calibrated Ratio:</td><td>9.73</td><td>9.72</td><td>0.011</td><td>+/- 0.050</td></tr></table>					WATER TANK SUMMARY (Horizontal Water Tank)					Measurement	Current Reading (Previous Coef.)	Calibrated (New Coef.)	Change	Control Limit On Change	Porosity (decp):	0.2110	0.2106	0.0003	+/- 0.0020	Calibrated Ratio:	9.73	9.72	0.011	+/- 0.050
WATER TANK SUMMARY (Horizontal Water Tank)																								
Measurement	Current Reading (Previous Coef.)	Calibrated (New Coef.)	Change	Control Limit On Change																				
Porosity (decp):	0.2110	0.2106	0.0003	+/- 0.0020																				
Calibrated Ratio:	9.73	9.72	0.011	+/- 0.050																				
<table><tr><th colspan="3">VERIFIER</th></tr><tr><th>Measurement</th><th>Value</th><th>Control Limit</th></tr></table>					VERIFIER			Measurement	Value	Control Limit														
VERIFIER																								
Measurement	Value	Control Limit																						

Snow-Block Porosity (decp): 0.0662 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 - 10755066 Reference Calibration Date: 01-Jul-13 16:27:31
Engineer: J. BOLLUM Calibration Date: 17-Jul-13 11:02:02
Software Version: WL INSITE R3.8.4 (Build 5) Calibration Version: 1

Logging Source S/N: DSN-436

Snow Block S/N: 08910

NEUTRON FIELD-CHECK SUMMARY

	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0662	0.0642	-0.0019	+/- 0.0150

PASS/FAIL SUMMARY

Block Change Check: Passed
Snow Block Stat Check: Passed
Temperature Check: Passed

DENSITY CALIPER SHOP CALIBRATION

Tool Name: SDLT - 10685803 Reference Calibration Date: 20-Jun-13 16:09:36
Engineer: S. INGERSOLL Calibration Date: 01-Jul-13 15:30:20
Software Version: WL INSITE R3.8.4 (Build 5) Calibration Version: 1
Host Tool Name: DSNT - 10755066

CALIBRATION COEFFICIENTS

Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-4578.27	-4092.36	-7000.00 - -1000.00
Pad Gain	0.0003895	0.0003815	0.000200 - 0.000600
Arm Offset	-2279.74	-2703.47	-5000.00 - 3000.00
Arm Gain	0.0004915	0.0005069	0.000300 - 0.000700
Arm Power	-0.000003324	-0.000004137	-0.000010000 - 0.000010000

The ring diameter is computed from: $\text{DIAMETER} = \text{PAD EXTENSION} + \text{ARM EXTENSION} + \text{TOOL DIAMETER}$

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)	1.85	2.00	0.15	+/- 0.20
Medium Ring (in)	3.64	3.75	0.11	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.47	6.50	0.03	+/- 0.20
Medium Ring (in)	8.18	8.25	0.07	+/- 0.20
Large Ring (in)	14.88	15.00	0.12	+/- 0.20

PASS/FAIL SUMMARY

Calibration-Coefficients Range Check: Passed
Ring-Measurement Check: Passed

PASS/FAIL SUMMARY

PASS/FAIL SUMMARY				
Calibration-Coefficients Range Check:		Passed		
SDLT CALIPER FIELD CALIBRATION				
Tool Name:	SDLT - 10685803	Reference Calibration Date:	01-Jul-13 15:30:20	
Engineer:	J. BOLLUM	Calibration Date:	17-Jul-13 10:55:28	
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1	
	MEASURED CALIPER VALUES			
	Measurement	Shop	Field	Change Control Limit On New Value
	Pad Extension	3.75	3.78	0.03 +/- 0.10
	Ring Diameter	8.25	8.27	0.02 +/- 0.15
	PASS/FAIL SUMMARY			
	Pad Extension Check:		Passed	
	Diameter Check:		Passed	
SPECTRAL DENSITY SHOP CALIBRATION				
Tool Name:	SDLT Pad - 10673790	Reference Calibration Date:	18-May-13 21:41:33	
Engineer:	S. INGERSOLL	Calibration Date:	01-Jul-13 12:50:36	
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1	
Logging Source S/N: 5073GW				
Aluminum Block S/N: LIBERAL ALUMINUM		Density: 2.598g/cc	Pe: 3.170	
Magnesium Block S/N: LIBERAL MAG BLOCK		Density: 1.684g/cc	Pe: 2.598	
	DENSITY CALIBRATION SUMMARY			
	Measurement	Previous Value	New Value	Control Limit
	Near Bar Gain	1.0467	1.0402	0.90 - 1.10
	Near Dens Gain	1.0386	1.0308	0.90 - 1.10
	Near Peak Gain	1.0598	1.0600	0.90 - 1.10
	Near Lith Gain	1.0491	1.0179	0.90 - 1.10
	Far Bar Gain	1.0107	1.0098	0.90 - 1.10
	Far Dens Gain	0.9993	0.9981	0.90 - 1.10
	Far Peak Gain	0.9920	0.9920	0.90 - 1.10
	Far Lith Gain	0.9604	0.9603	0.90 - 1.10
	Near Bar Offset	-0.1729	-0.1107	NONE
	Near Dens Offset	-0.0887	-0.0193	NONE
	Near Peak Offset	-0.2382	-0.2385	NONE
	Near Lith Offset	-0.1653	0.0962	NONE
	Far Bar Offset	0.0790	0.0820	NONE
	Far Dens Offset	0.1500	0.1581	NONE
	Far Peak Offset	0.1726	0.1658	NONE
	Far Lith Offset	0.3450	0.3403	NONE
	Near Bar Background	864.83	861.54	700 - 1450
	Near Dens Background	283.75	282.76	230 - 480
	Near Peak Background	124.36	123.64	100 - 210
	Near Lith Background	152.79	154.08	125 - 260
	Far Bar Background	576.79	576.20	450 - 900
	Far Dens Background	226.46	226.25	175 - 345
	Far Peak Background	90.61	89.12	70 - 140
	Far Lith Background	93.93	93.55	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	2.554	2.562	0.008	+/- 0.150
ALUMINUM				
Density (g/cc)	2.591	2.598	0.007	+/- 0.01500
Pe	3.154	3.131	-0.023	+/- 0.150

TOOL SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	0.0002	+/- 0.0110	-0.0002	+/- 0.0140
Magnesium Block	-0.0001	+/- 0.0110	0.0009	+/- 0.0140
Aluminum Block	0.0002	+/- 0.0110	0.0013	+/- 0.0140
Resolution	8.58	6.00 - 11.50	8.79	6.00 - 11.50
Internal Verifier(B+D+P+L)	1422	1200 - 2700	985	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:	01-Jul-13 12:50:36
Engineer:	J. BOLLLOM	Calibration Date:	17-Jul-13 10:53:04
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1

Pad Temperature: 75.2 degF

DENSITY FIELD CALIBRATION SUMMARY				
Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1422.026	1419.391	-2.635	15.221
Far (B+D+P+L) cps	985.123	983.676	-1.447	16.837
Near Resolution	8.58	8.66	0.080	0.50
Far Resolution	8.79	8.95	0.160	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-10811258						
Gamma Ray Calibrator	232.0	226.6	-----	5.4	+/- 9.00	api
DSNT-10755066						
Snow-Block Porosity	0.0662	0.0642	-----	0.0020	+/- 0.0150	decp
SDLT-10685803						
Pad Extension	3.75	3.78	-----	-0.03	+/-0.10	in
Ring Diameter	8.25	8.27	-----	-0.02	+/-0.15	in
SDLT Pad-10673790						
Near(B+D+P+L)	1422.026	1419.391	-----	2.635	+/-15.221	cps
Far(B+D+P+L)	985.123	983.676	-----	1.447	+/-16.837	cps
Data: WILLIAM TRUST0001 SP-GTET-DSN-SDI-FLEX-BSAT-ACRT-CHI001 18-Jul-13 22:16 Dn @218.0f						
Date: 18-Jul-13 22:19:50						
HALLIBURTON						
PARAMETERS REPORT						
Depth (ft)	Tool Name	Mnemonic	Description	Value	Units	
TOP						
	GTET	GEOK	Process Gamma Ray EVR?	No		
	DSNT	DEOK	Process DSN EVR?	No		
	SDLT Pad	DNOK	Process Density EVR?	No		
2800.00						
	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	9.100	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	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	3900.00	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	GRSC	Gamma Tool Standoff	0.000	in	

GTET	GRSO	Gamma Tool Standoff	0.000	in
GTET	GEOK	Process Gamma Ray EVR?	Yes	
GTET	TPOS	Tool Position for Gamma Ray Tools.	Eccentered	
DSNT	DNOK	Process DSN?	Yes	
DSNT	DEOK	Process DSN EVR?	Yes	
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?	Yes	
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: WILLIAM_TRUSTI0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-CHIDLE			Date: 18-Jul-13 22:30:48	

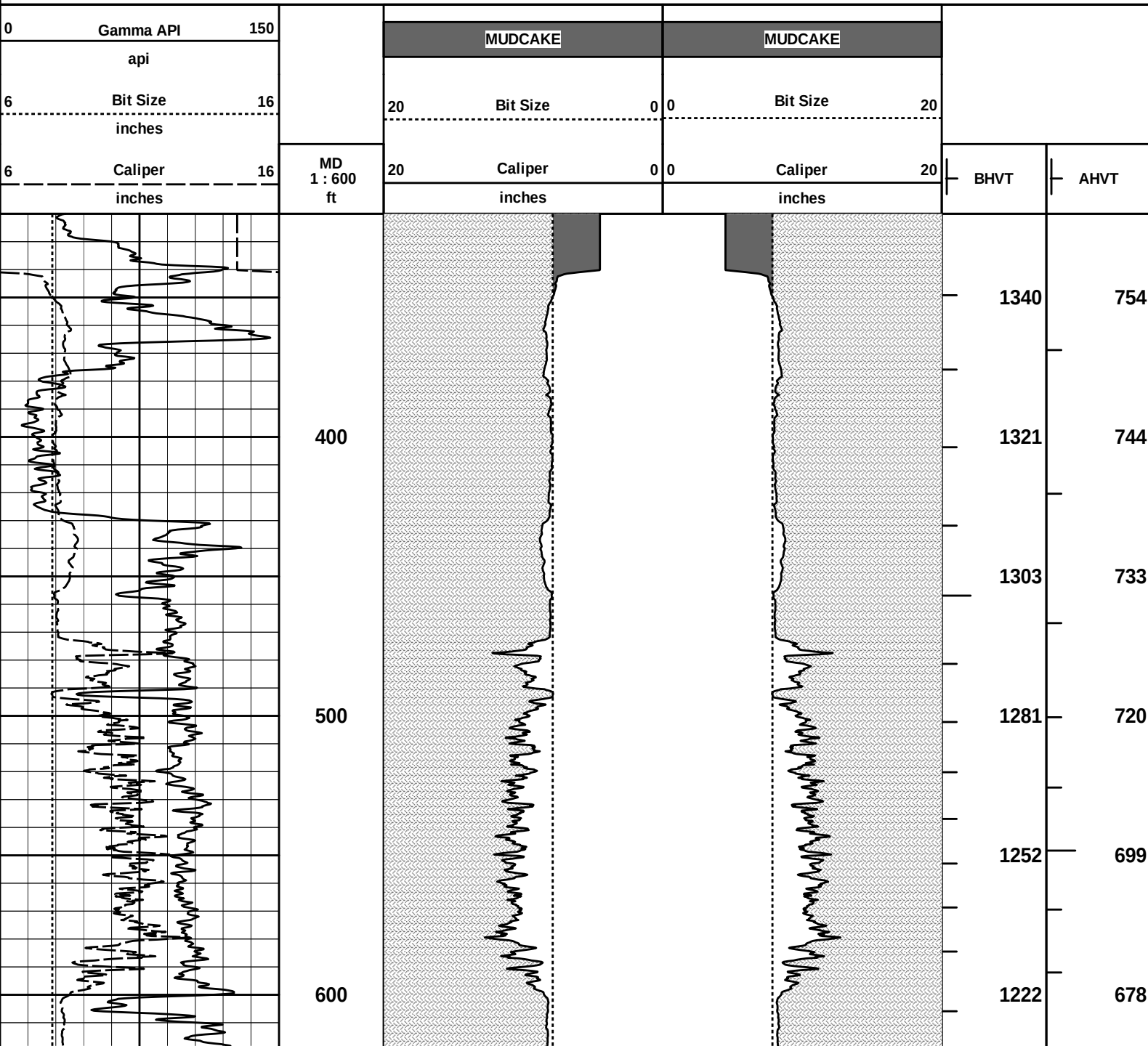
HALLIBURTON				
INPUTS, DELAYS AND FILTERS TABLE				
Mnemonic	Input Description	Delay (ft)	Filter Type	Filter Length (ft)
Depth Panel				
TENS	Tension	0.00	NO	
CH_HOS				
DHTN	DownholeTension	0.00	BLK	0.000
SP Sub				
PLTC	Plot Control Mask	72.01	NO	

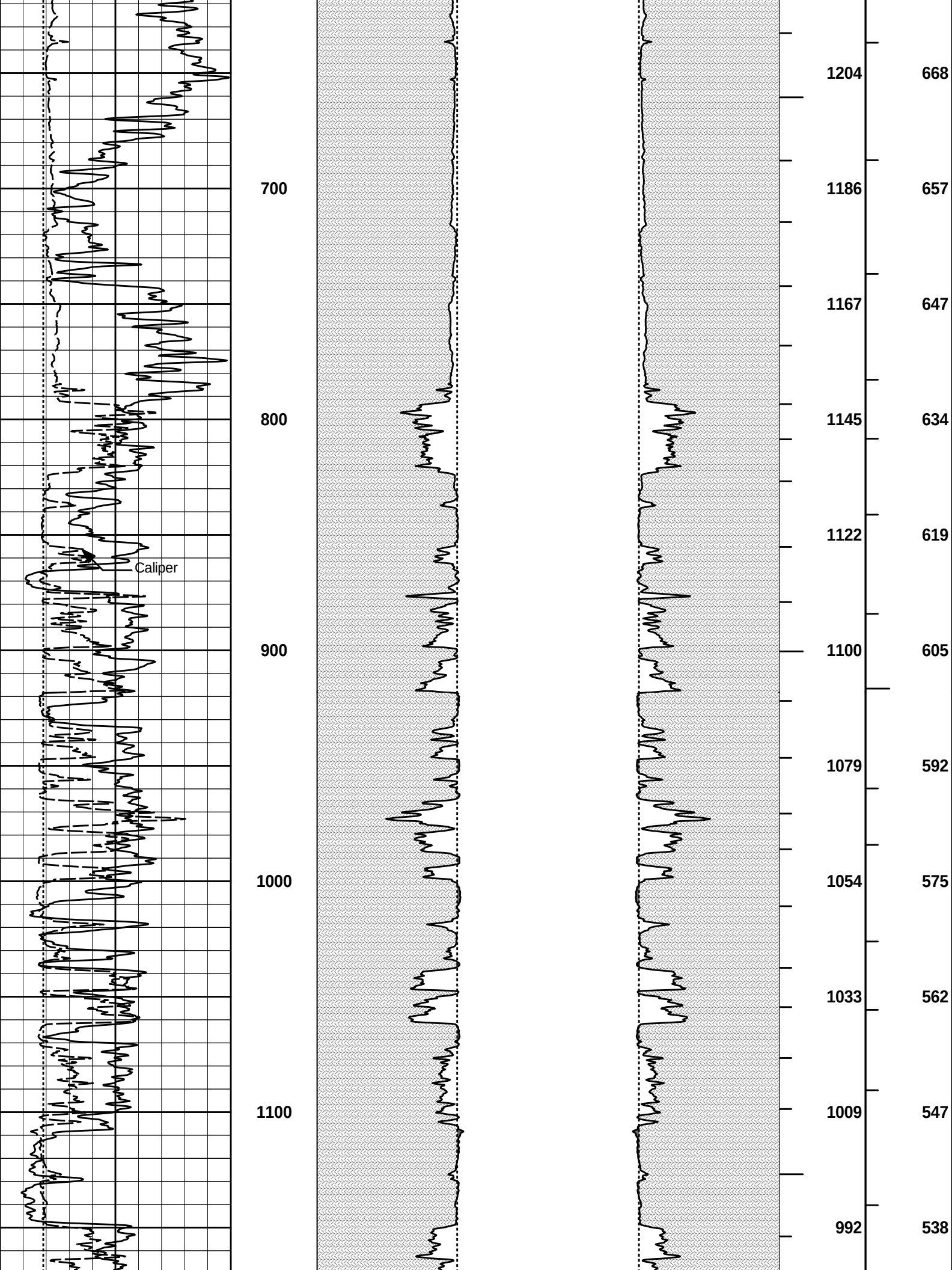
SP	Spontaneous Potential	72.01	BLK	1.250
SPR	Raw Spontaneous Potential	72.01	NO	
SPO	Spontaneous Potential Offset	72.01	NO	
GTET				
TPUL	Tension Pull	63.99	NO	
GR	Natural Gamma Ray API	63.99	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	63.99	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	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
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

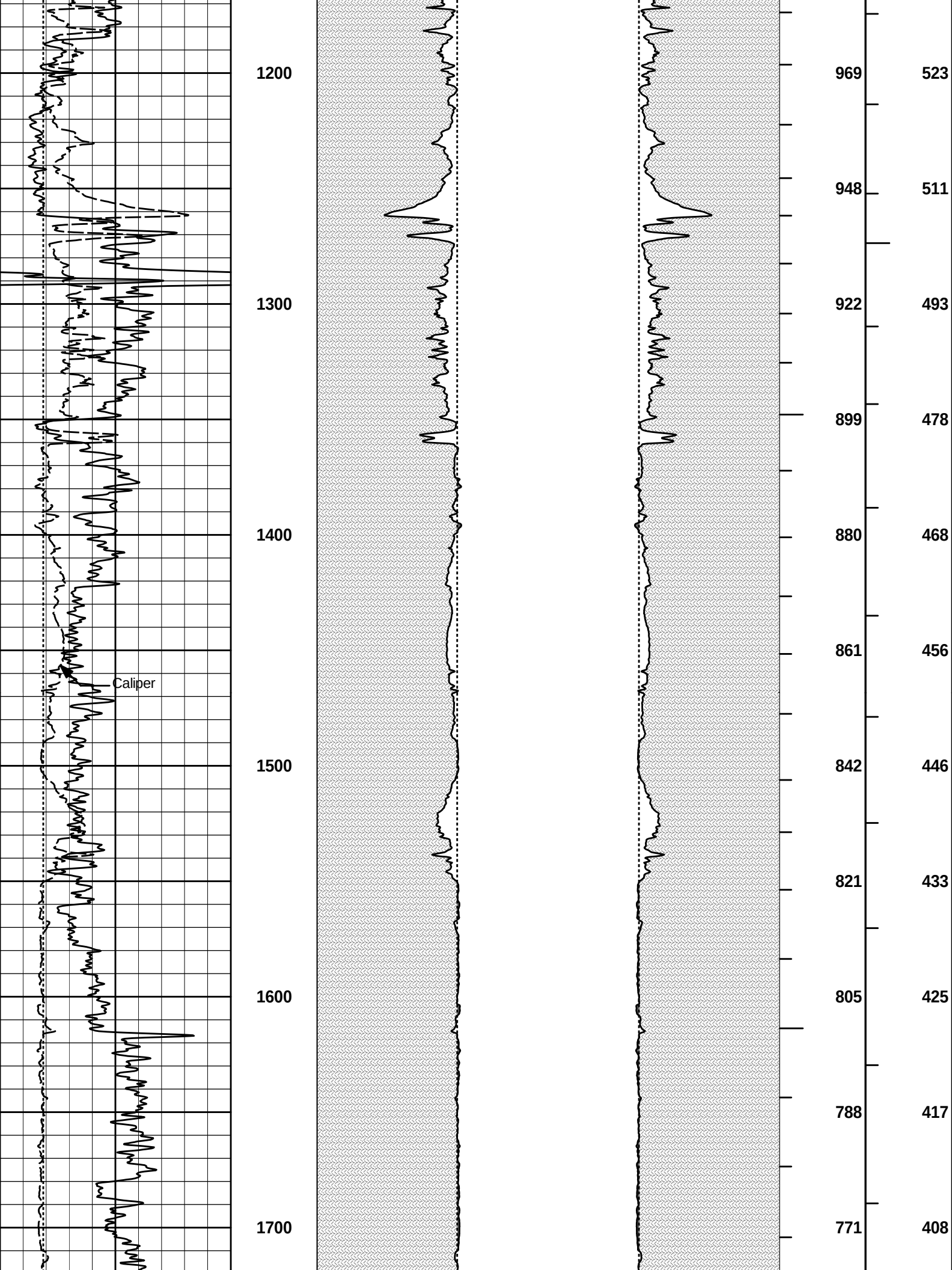
F2R4	ACRT 36KHz - 17in R value	3.98	BLK	0.000
F2X4	ACRT 36KHz - 17in X value	3.98	BLK	0.000
F2R5	ACRT 36KHz - 10in R value	3.48	BLK	0.000
F2X5	ACRT 36KHz - 10in X value	3.48	BLK	0.000
F2R6	ACRT 36KHz - 6in R value	3.23	BLK	0.000
F2X6	ACRT 36KHz - 6in X value	3.23	BLK	0.000
F3R1	ACRT 72KHz - 80in R value	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

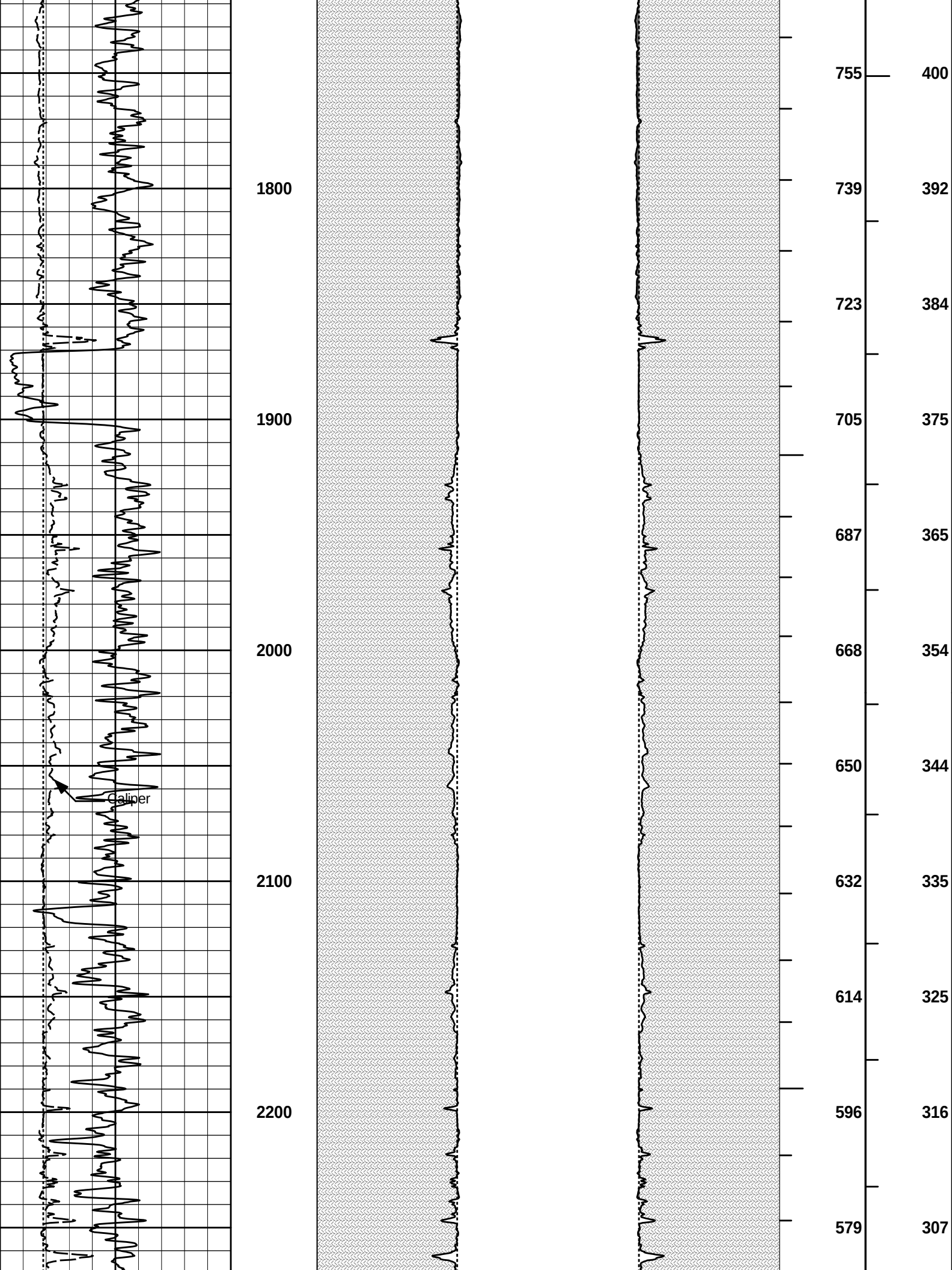
Microlog Pad				
TPUL	Tension Pull	44.03	NO	
MINV	Microlog Lateral	44.03	BLK	0.750
MNOR	Microlog Normal	44.03	BLK	0.750
Data: WILLIAM_TRUSTI0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-CHNIDLE				Date: 18-Jul-13 21:56:01

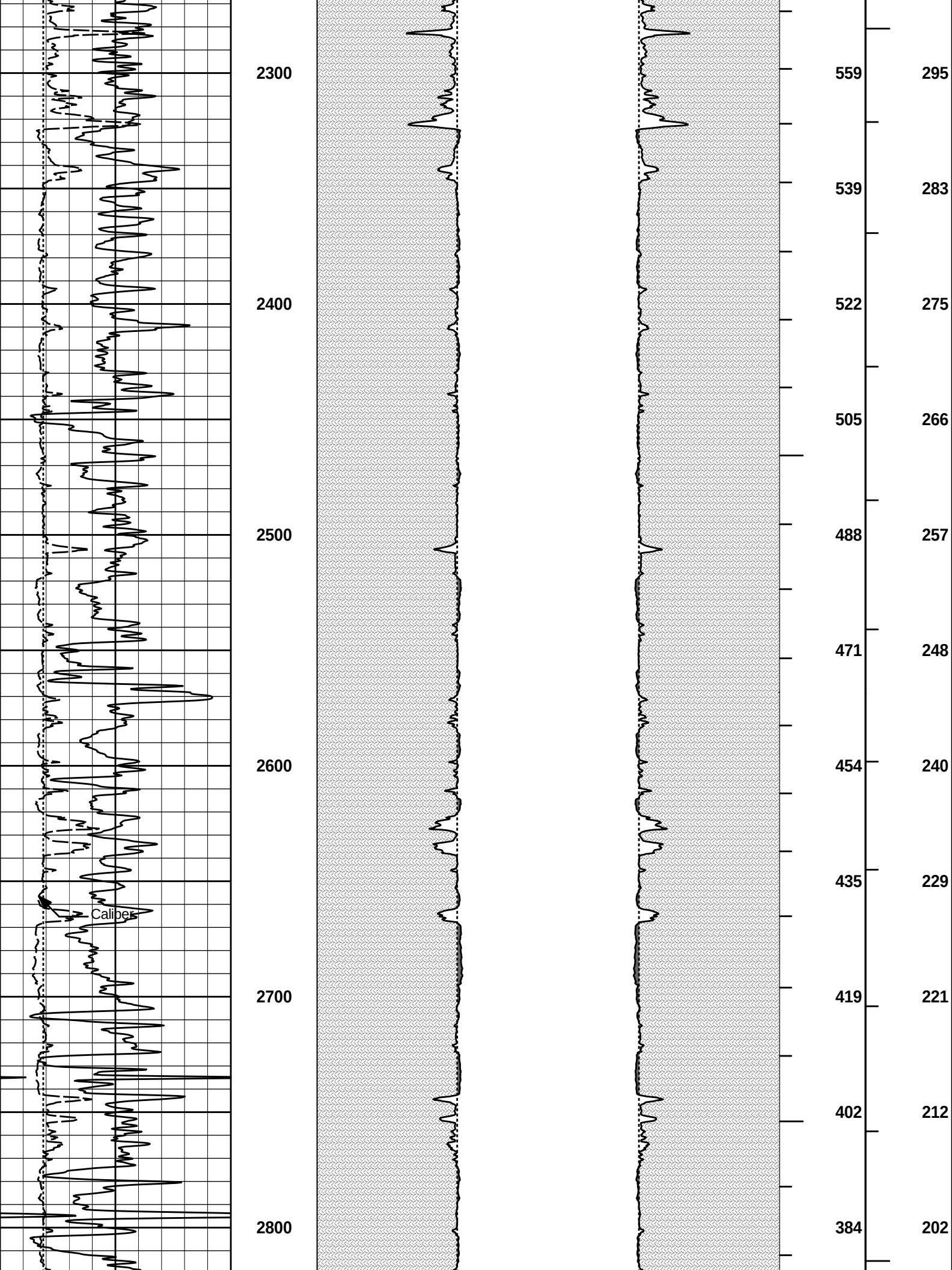
ANNULAR HOLE VOLUME PLOT

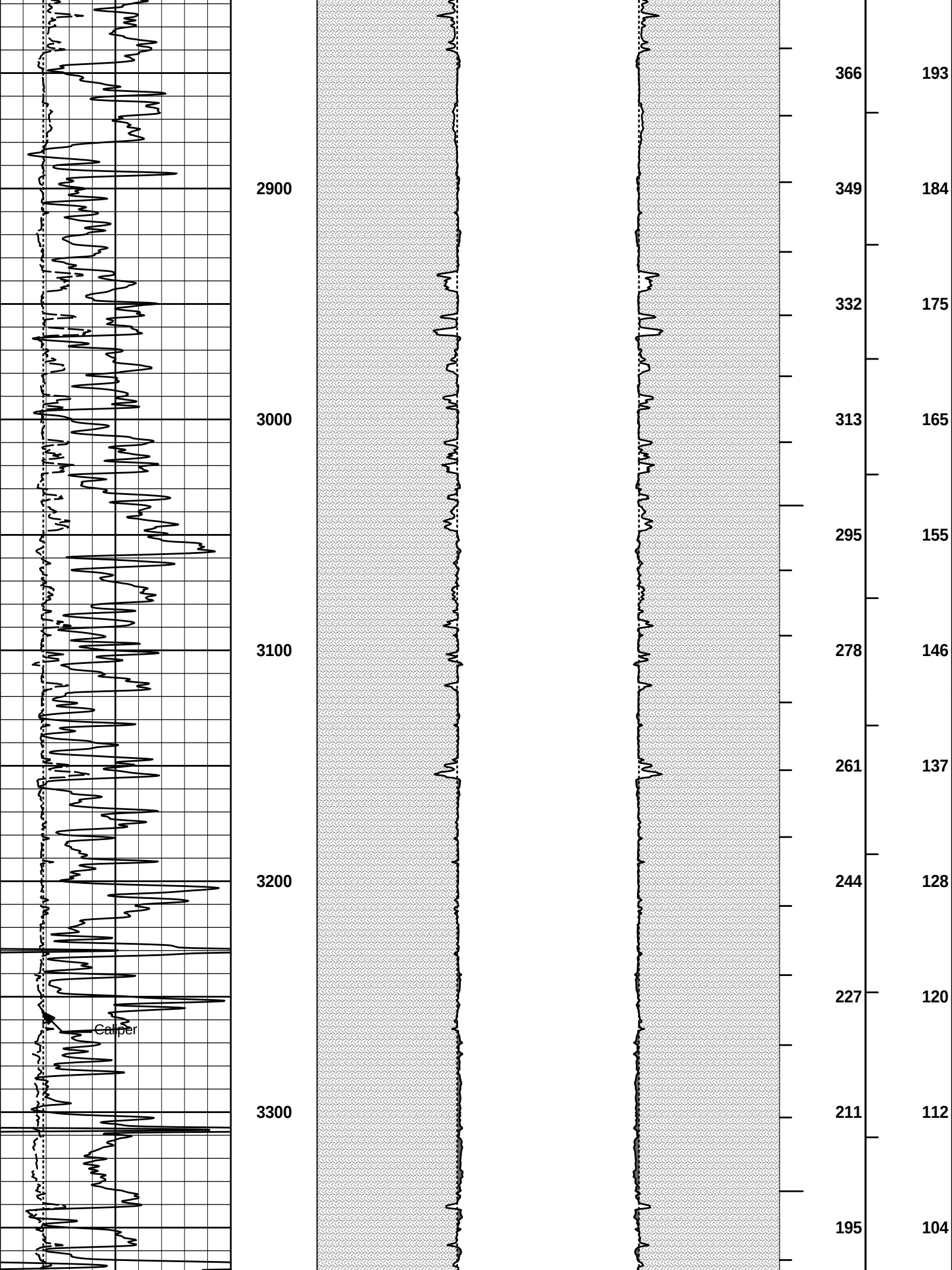


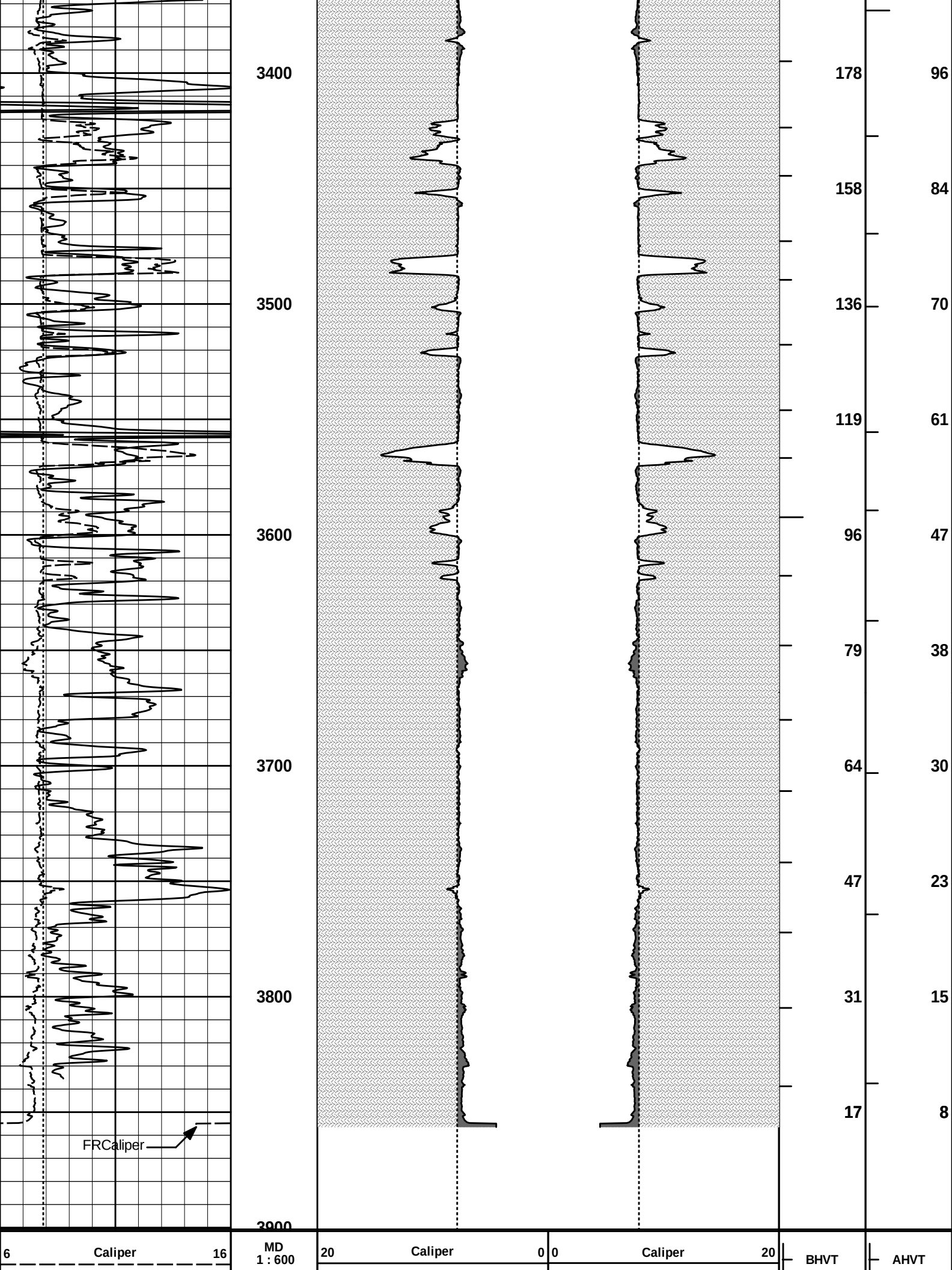












inches		ft		inches		inches			
6	Bit Size	16		20	Bit Size	0	0	Bit Size	20
inches									
0	Gamma API	150		MUDCAKE			MUDCAKE		
api									
HALLIBURTON				Plot Time: 19-Jul-13 00:11:19 Plot Range: 320 ft to 3900.75 ft Data: WILLIAM_TRUST\Well Based\CASING\ Plot File: \\-LOCAL-WILLIAM_TRUST\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-CH\PORO\AHV_2_IQ_LIB					
ANNULAR HOLE VOLUME PLOT									
COMPANY		HARTMAN OIL CO.							
WELL		WILLIAMS TRUST 1-19							
FIELD		WILDCAT							
COUNTY		NORTON		STATE		KANSAS			
HALLIBURTON				SPECTRAL DENSITY DUAL SPACED NEUTRON LOG					