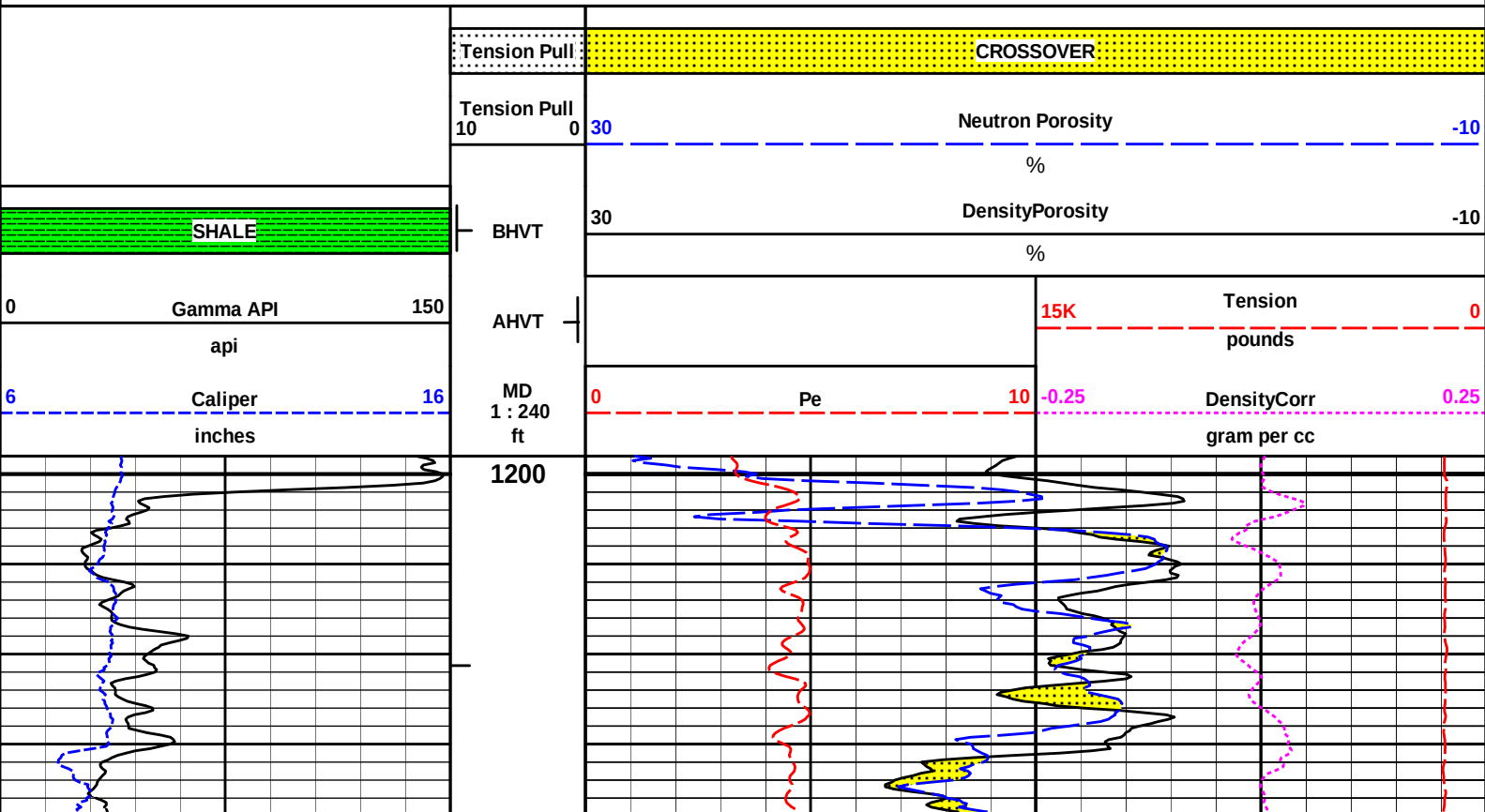


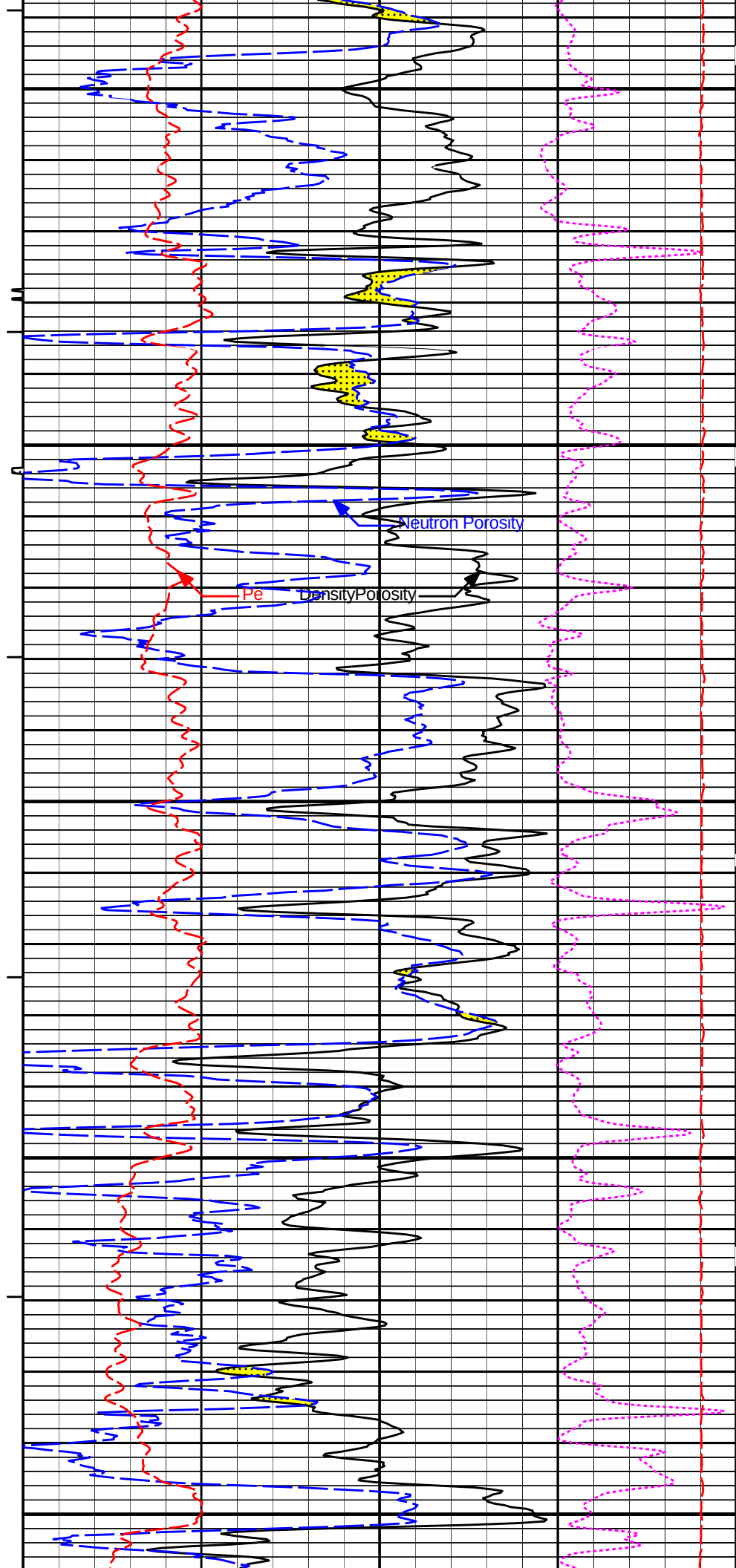
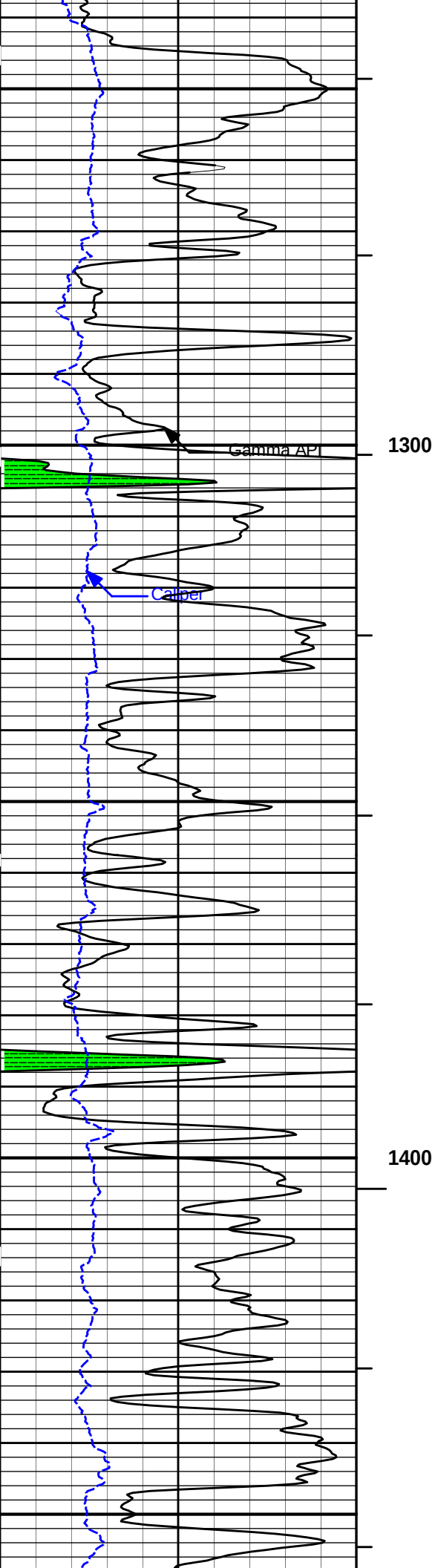
DUAL SPACED NEUTRON SPECTRAL DENSITY LOG

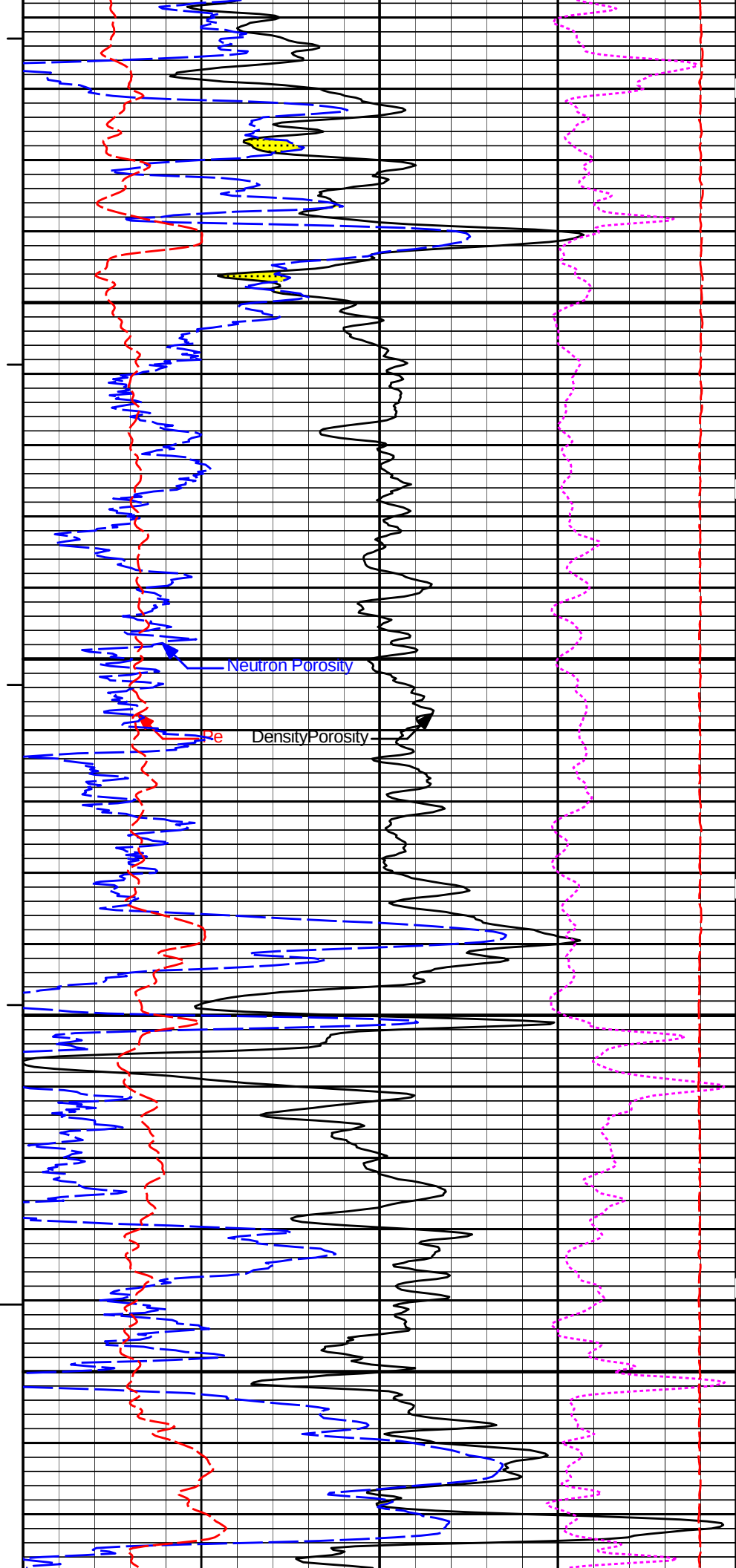
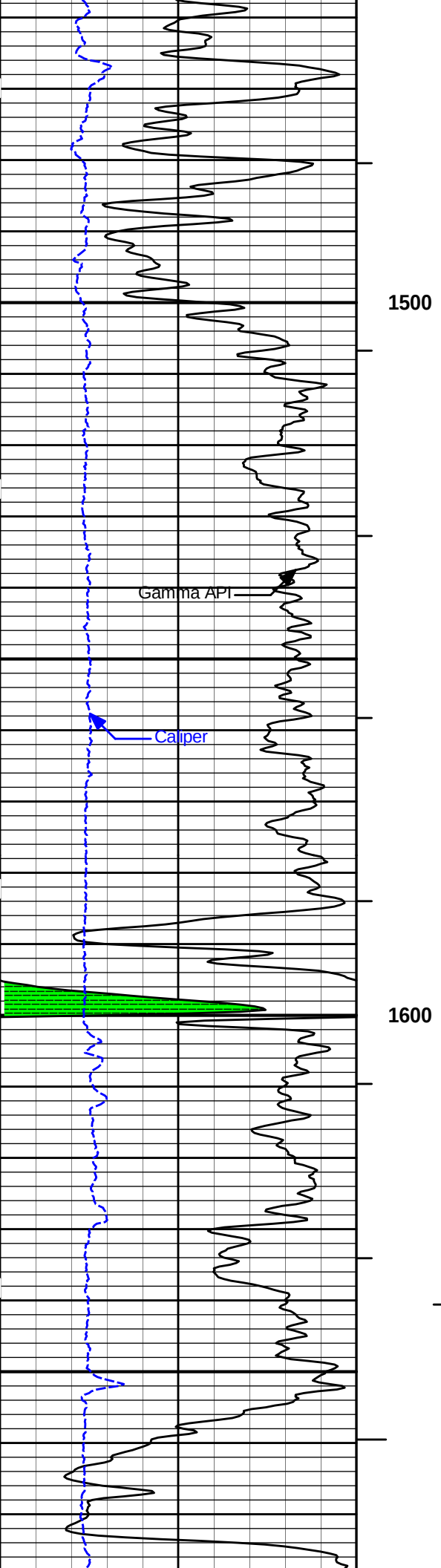
Fold here

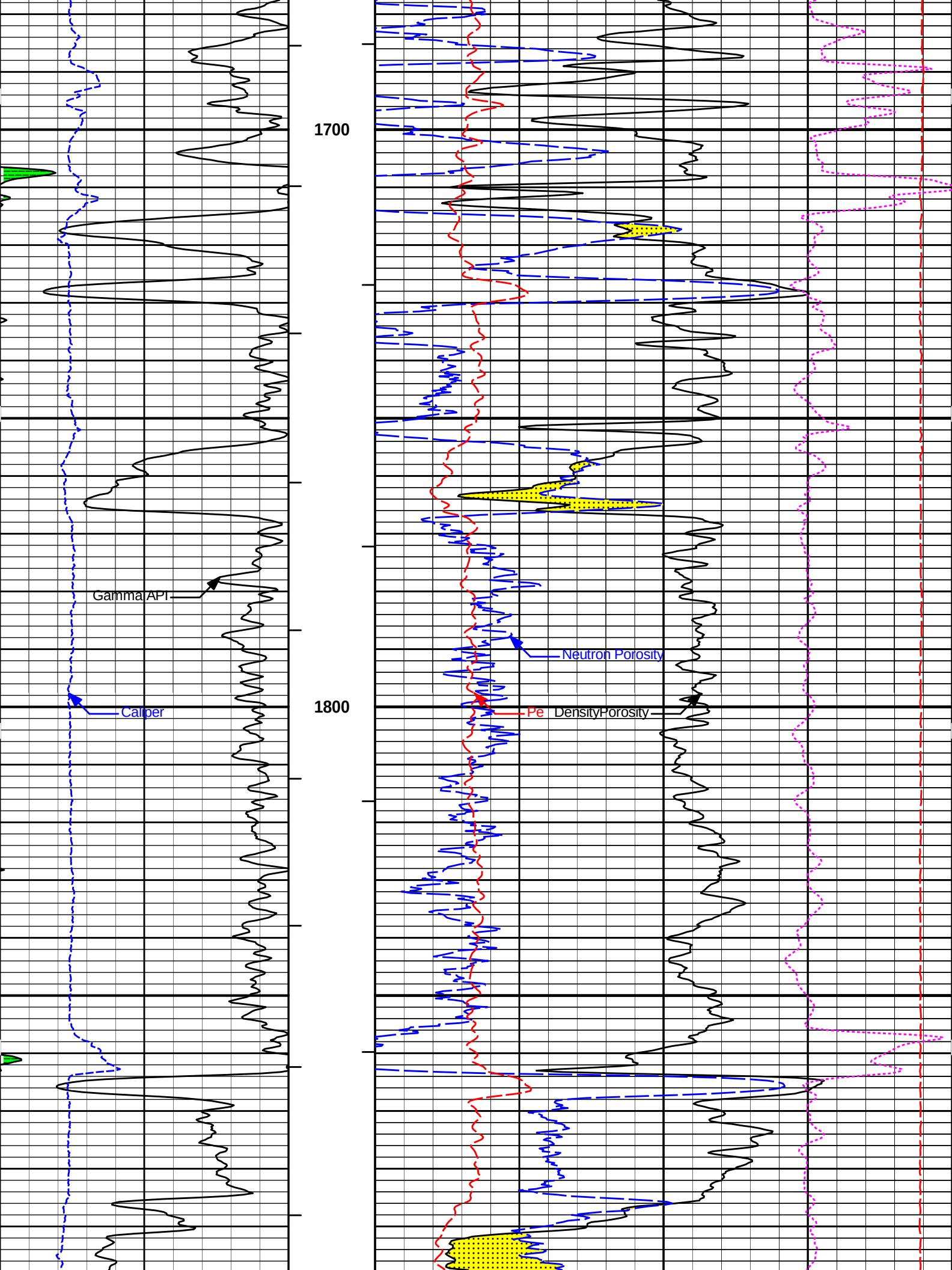
Service Ticket No.: 900461696						API Serial No.: 15-035-24508-00-00						PGM Version: WL INSITE R3.8.4 (Build 5)					
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE						RESISTIVITY SCALE CHANGES											
Date	Sample No.					Type Log	Depth	Scale Up Hole		Scale Down Hole							
Depth-Driller																	
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.		@		@													
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.	11048627	Serial No.		Serial No.	10950489	Serial No.	11019643	Serial No.	11019643								
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.	5168 GW	Serial No.	DSN-424	Serial No.	DSN-424								
Distance to Source	10'	FWDA [Y/N]		Strength	1.5 Ci	Strength	15 Ci	Strength	15 Ci								

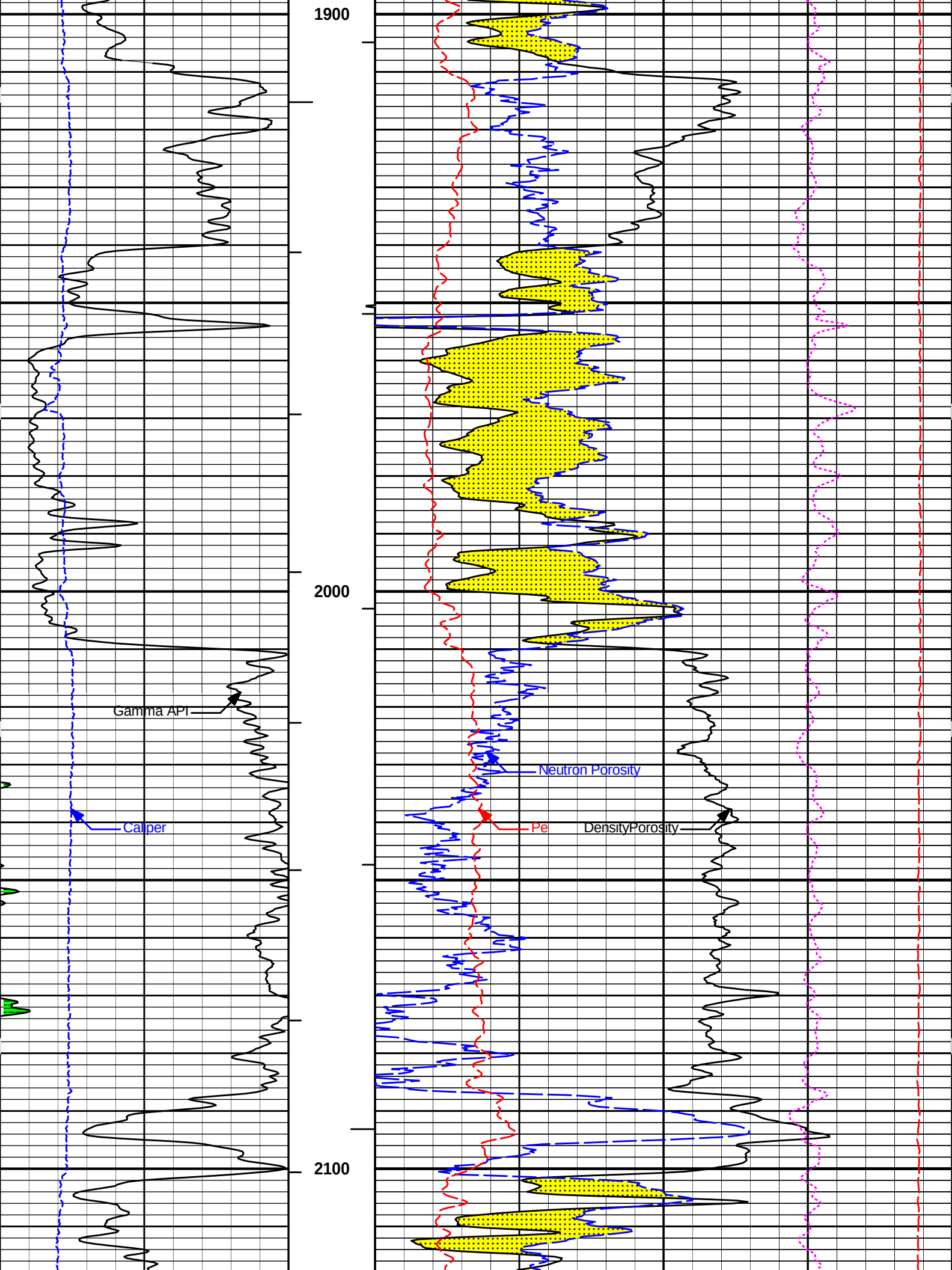
GENERAL				GAMMA		ACOUSTIC			DENSITY			NEUTRON		
Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix
No.	From	To	ft/min	L	R	L	R		L	R		L	R	
ONE	3500	1200	REC	0	150				30	-10	2.71	30	-10	LIME
DIRECTIONAL INFORMATION														
Maximum Deviation @								KOP @						
Remarks: ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING														
CHLORIDES REPORTED AT 1100 MG/L														
LCM REPORTED AT 5 PPB														
TODAY'S CREW M. GRAHAM B. TERRELL														
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES LIBERAL, KANSAS 620-624-8123														
HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.														
HALLIBURTON														

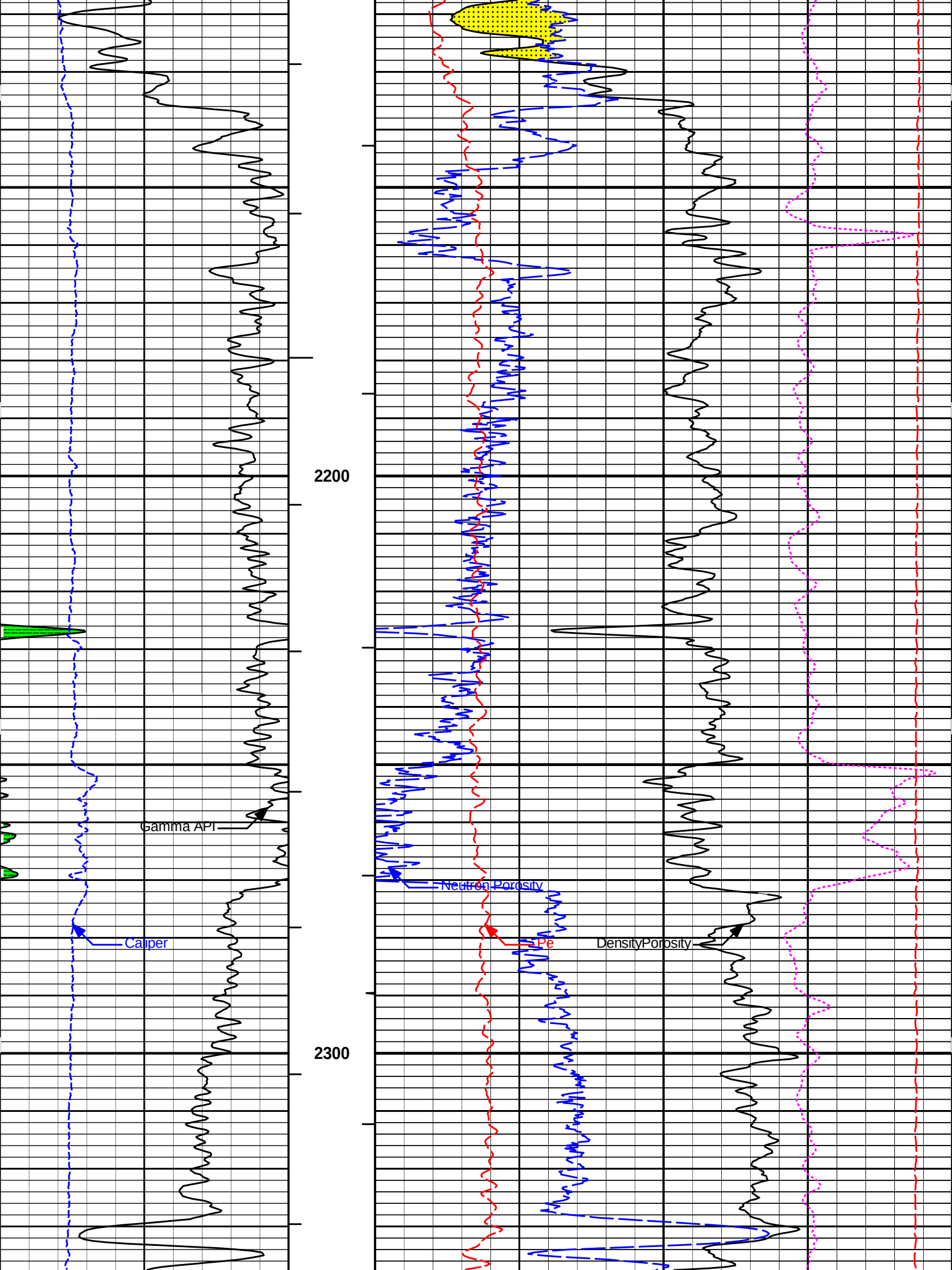


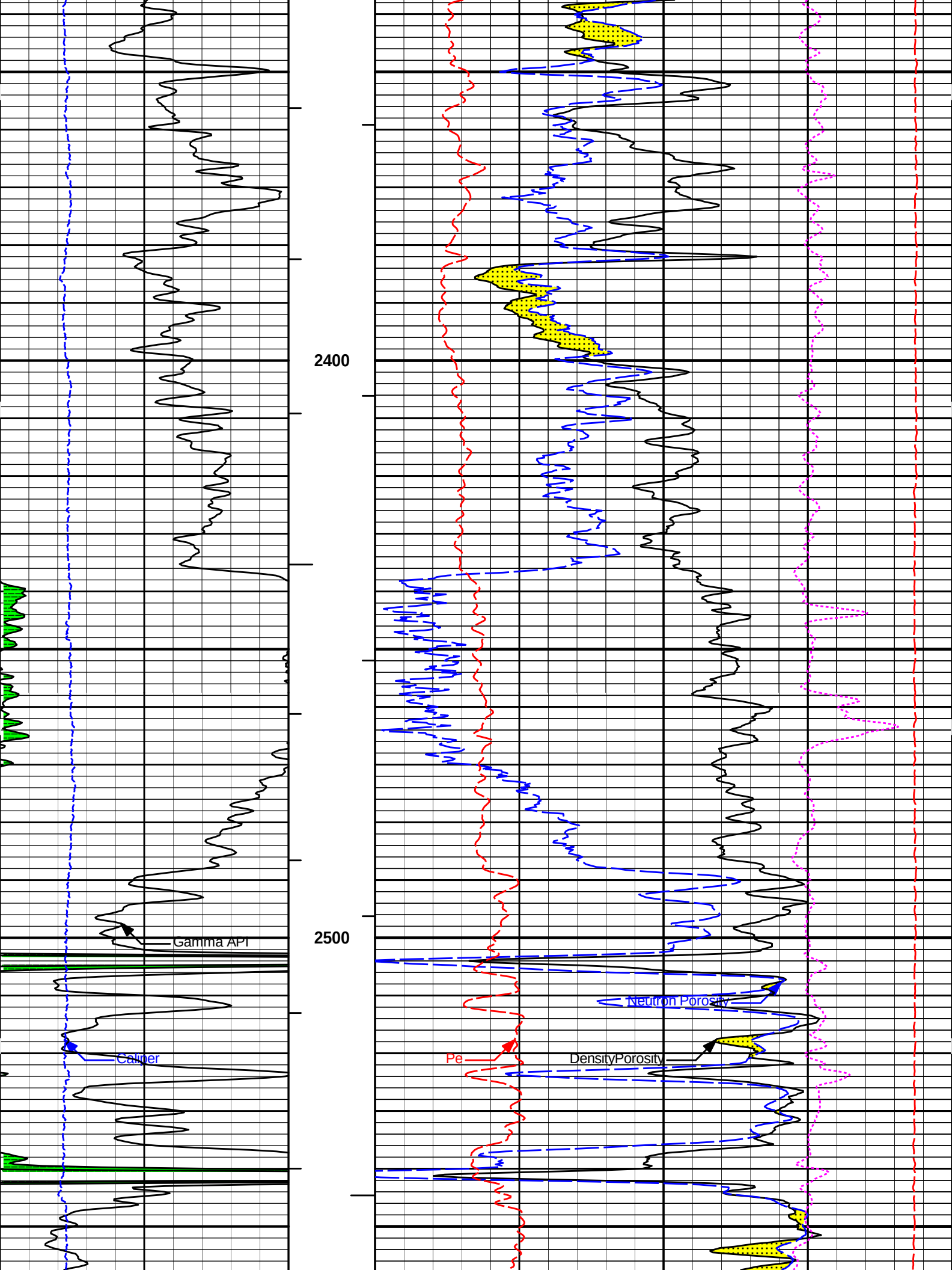


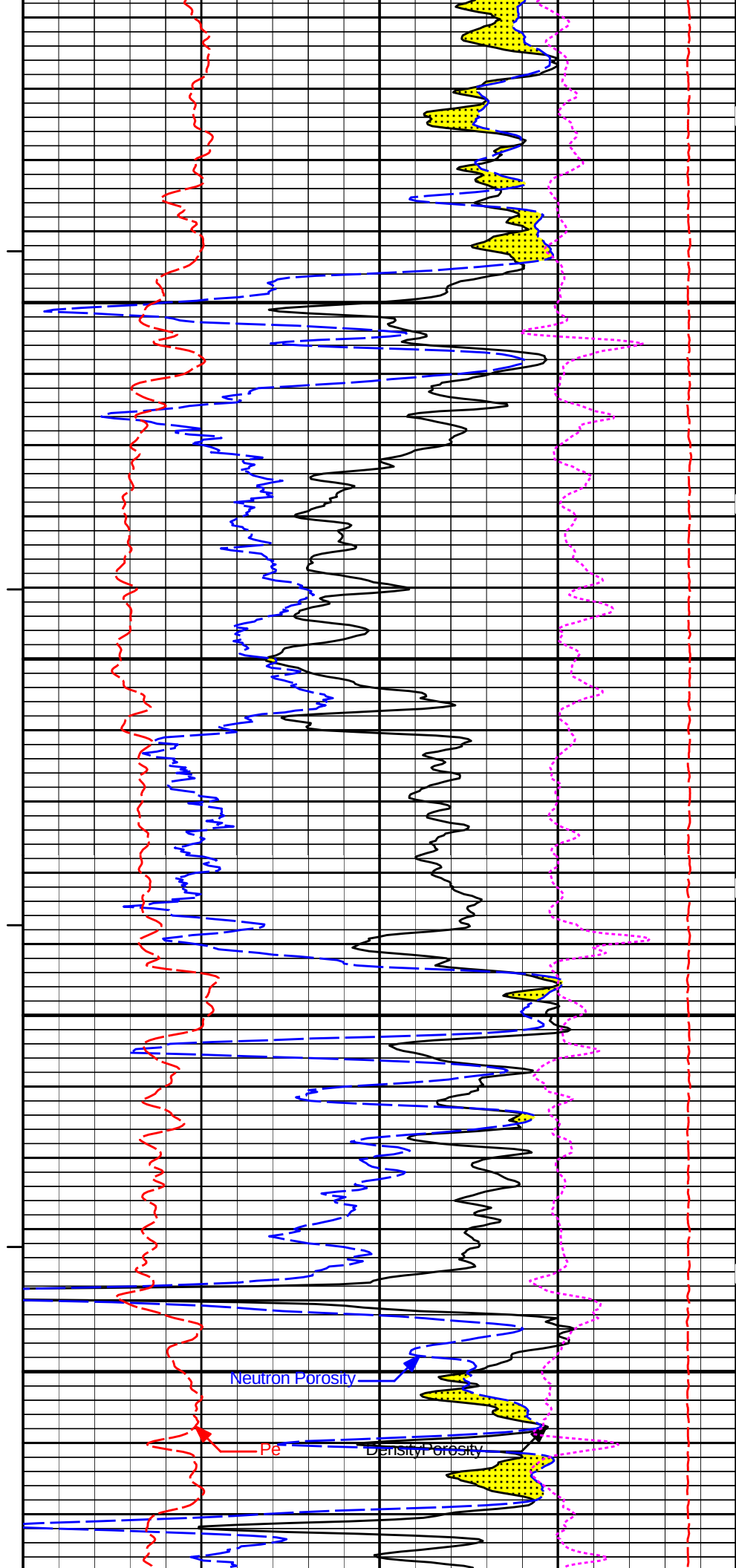
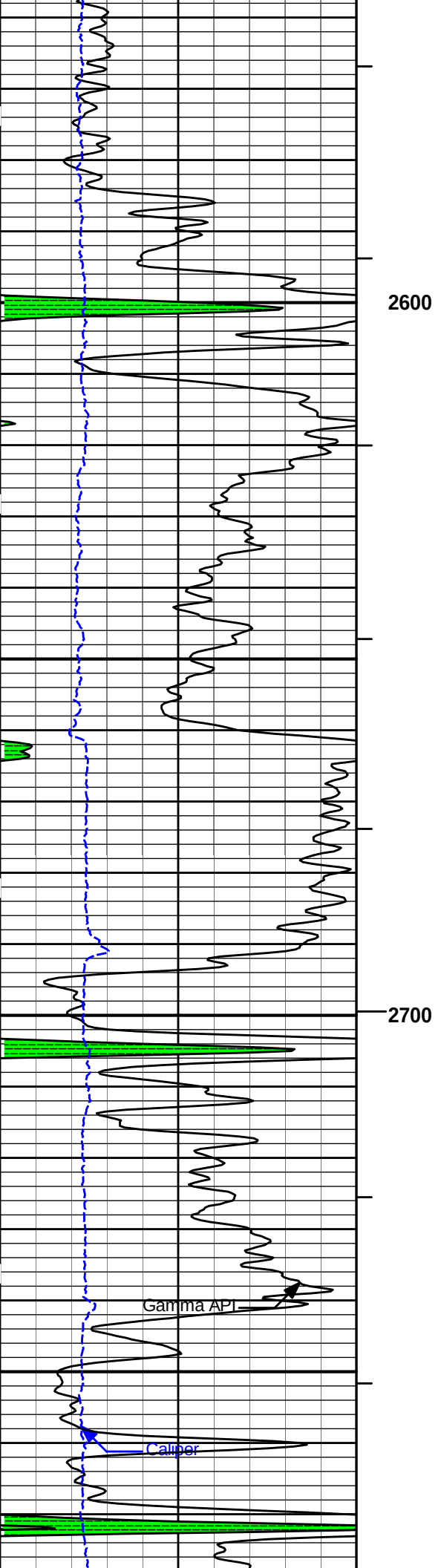


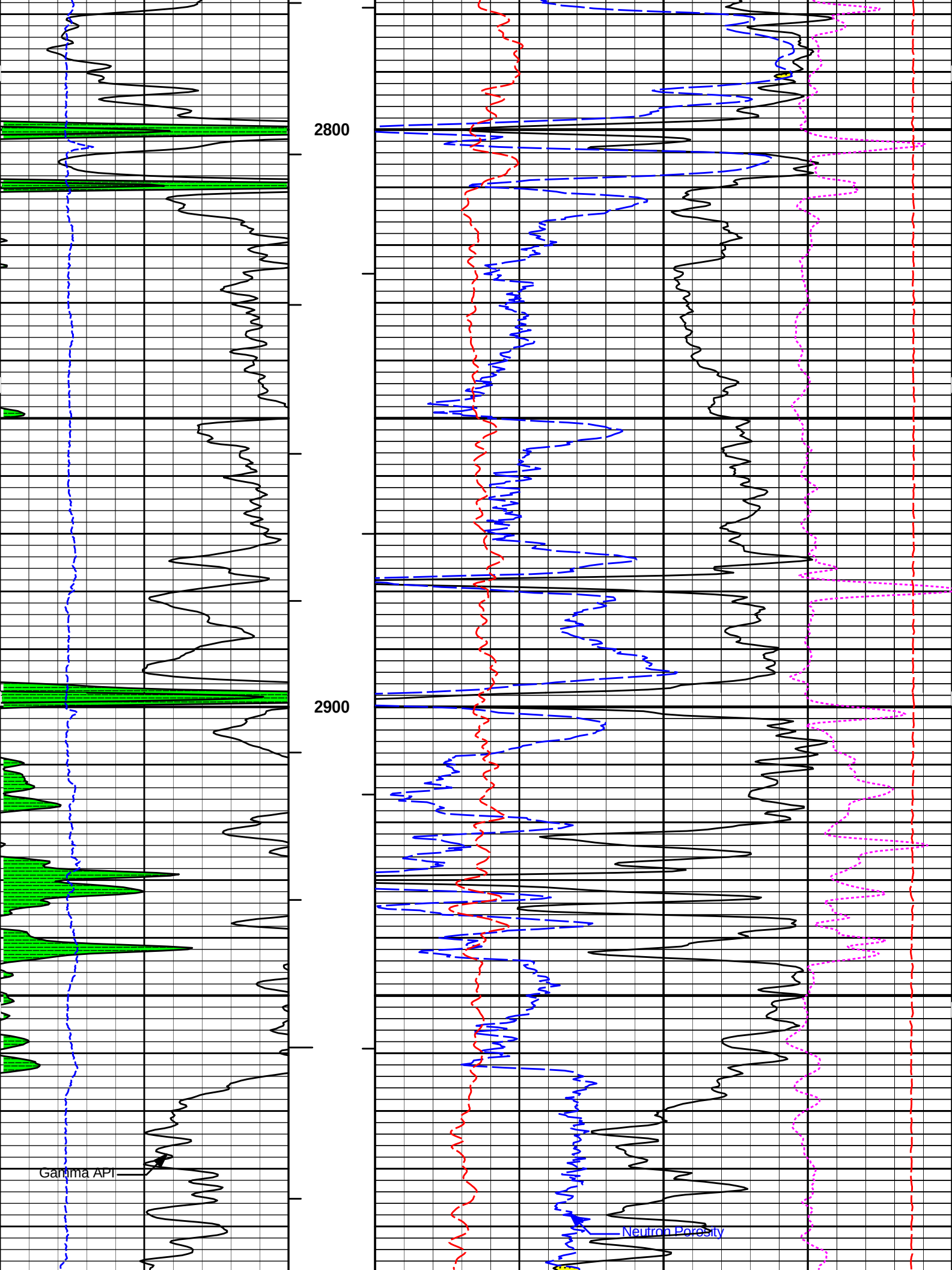


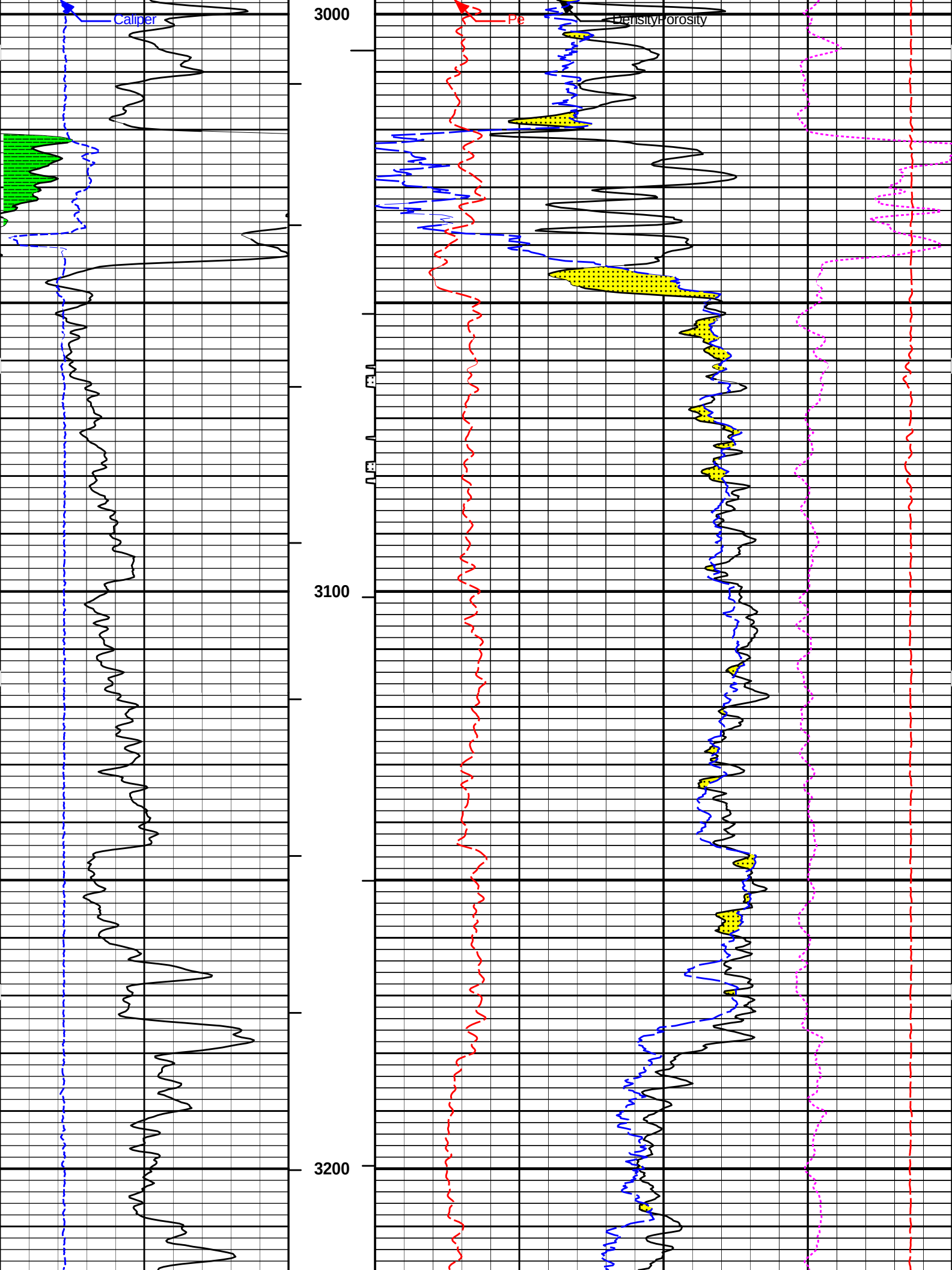


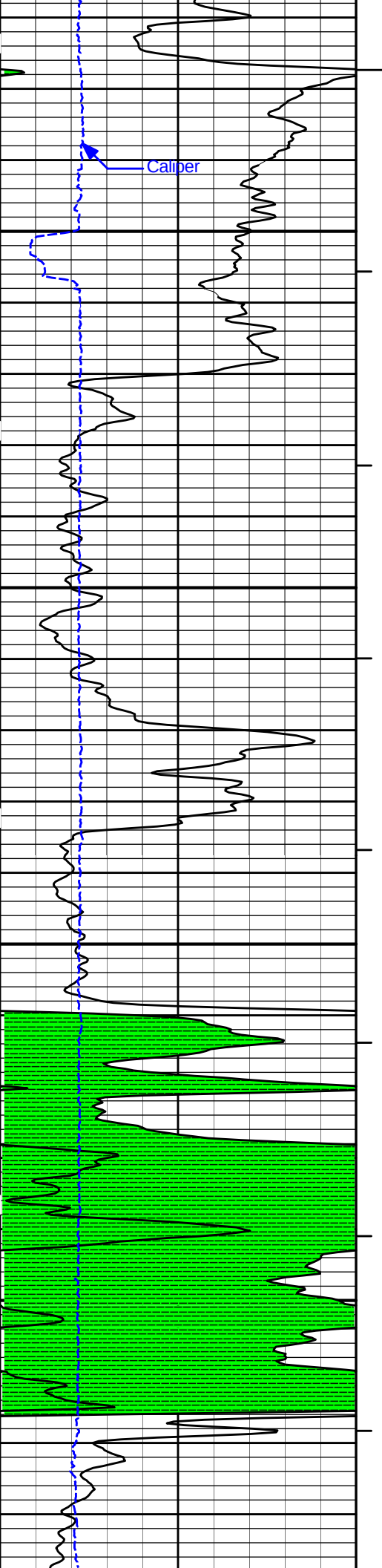






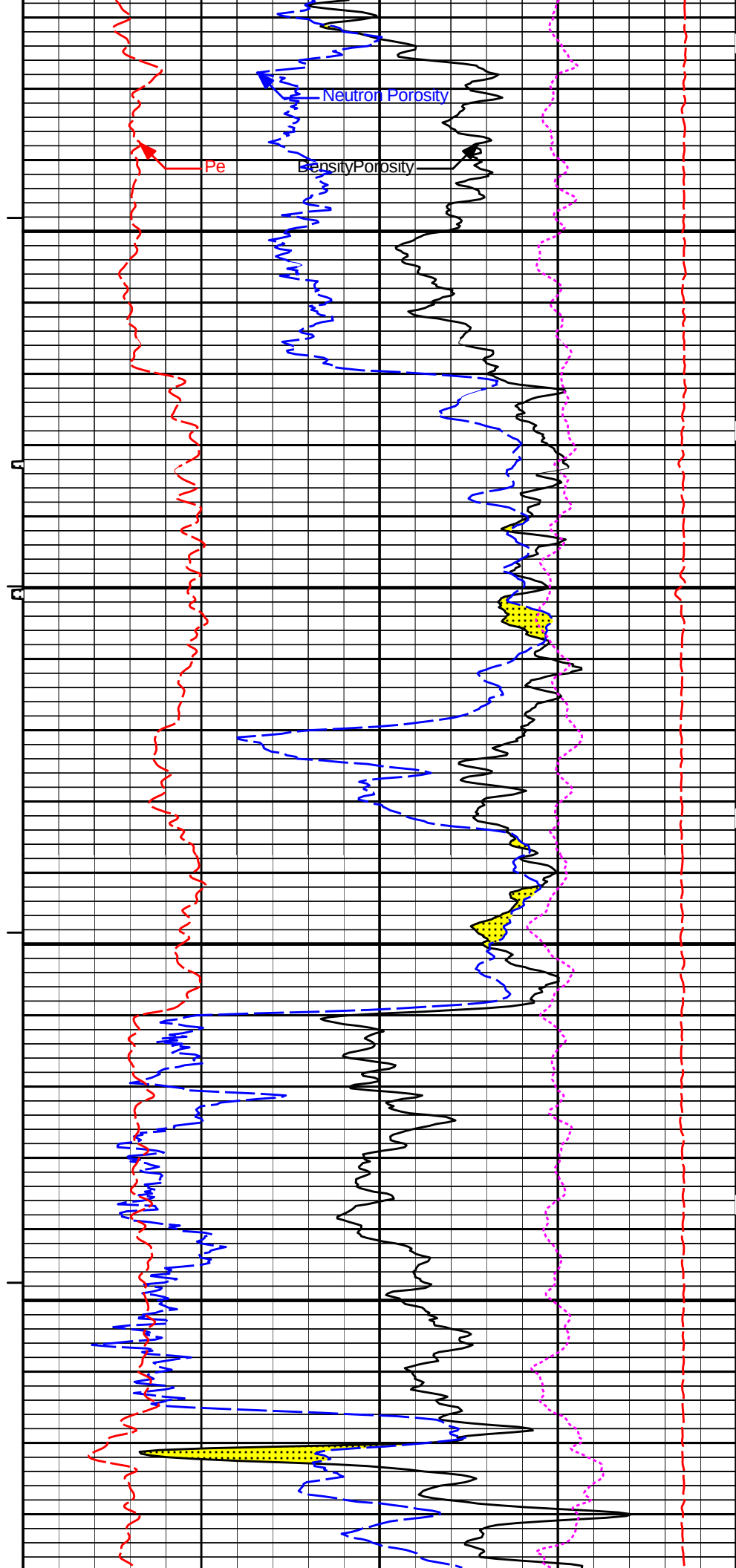


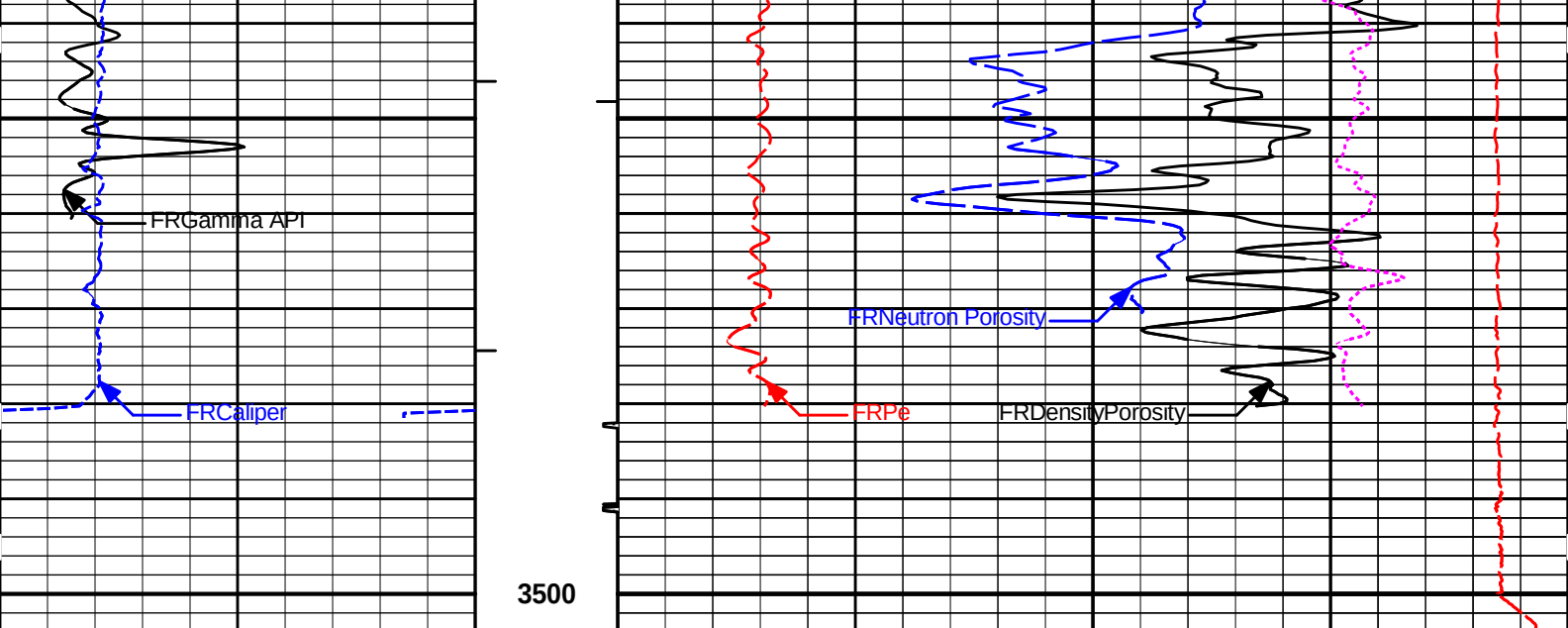




3300

3400





6	Caliper	16	MD	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	10	0	30			Neutron Porosity	-10
									%	
			Tension Pull						CROSSOVER	

HALLIBURTON

Plot Time: 29-May-13 09:10:48
Plot Range: 1198 ft to 3504.17 ft
Data: BARNETT_1-18\Well Based\DAQ-0001-003\
Plot File: \\PORO\Poros_IQ_5_MAIN_LIB

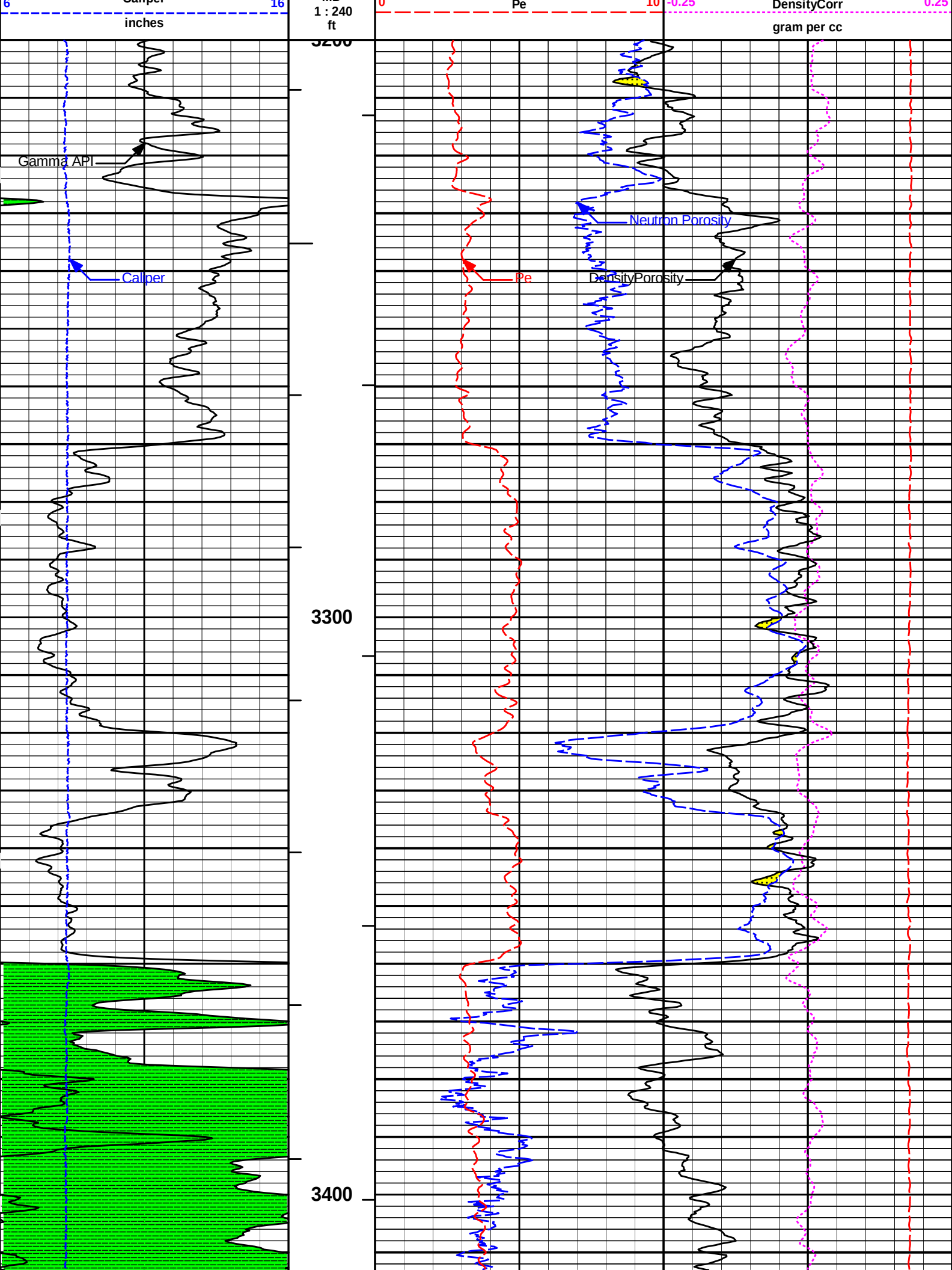
5 INCH MAIN LOG

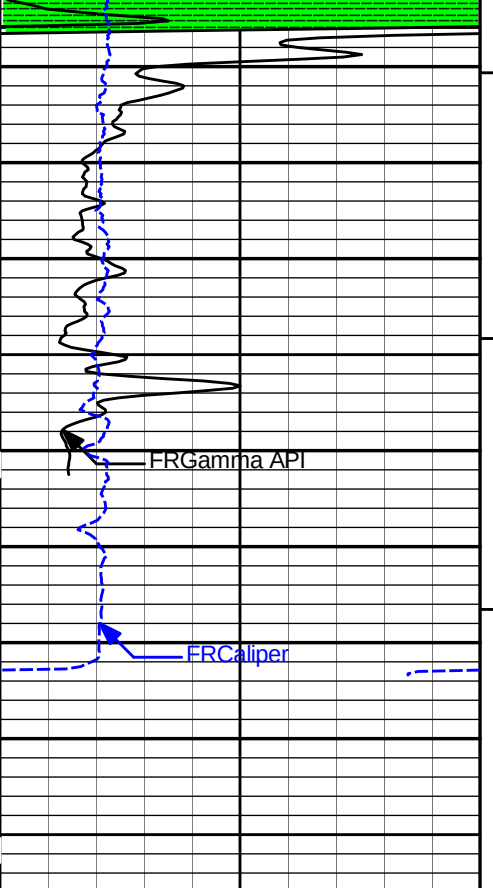
HALLIBURTON

Plot Time: 29-May-13 09:10:48
Plot Range: 3200 ft to 3506.08 ft
Data: BARNETT_1-18\Well Based\DAQ-0001-002\
Plot File: \\PORO\Poros_IQ_5_REP_LIB

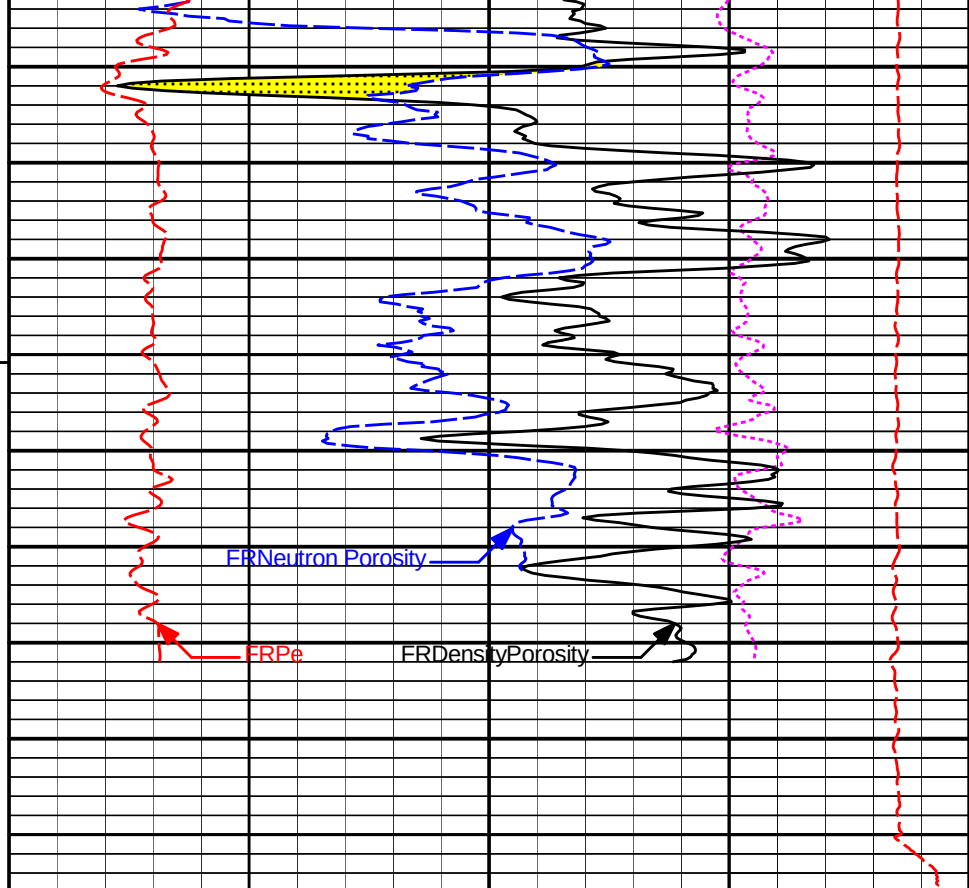
REPEAT SECTION

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





3500



6	Caliper	16
	inches	
0	Gamma API	150
	api	
	SHALE	

MD
1 : 240
ft

AHVT

BHVT

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

HALLIBURTON

Plot Time: 29-May-13 09:10:53
Plot Range: 3200 ft to 3506.08 ft
Data: BARNETT_1-18\Well Based\DAQ-0001-002\
Plot File: \\PORO\Porosity_Q_5_REP_LIB

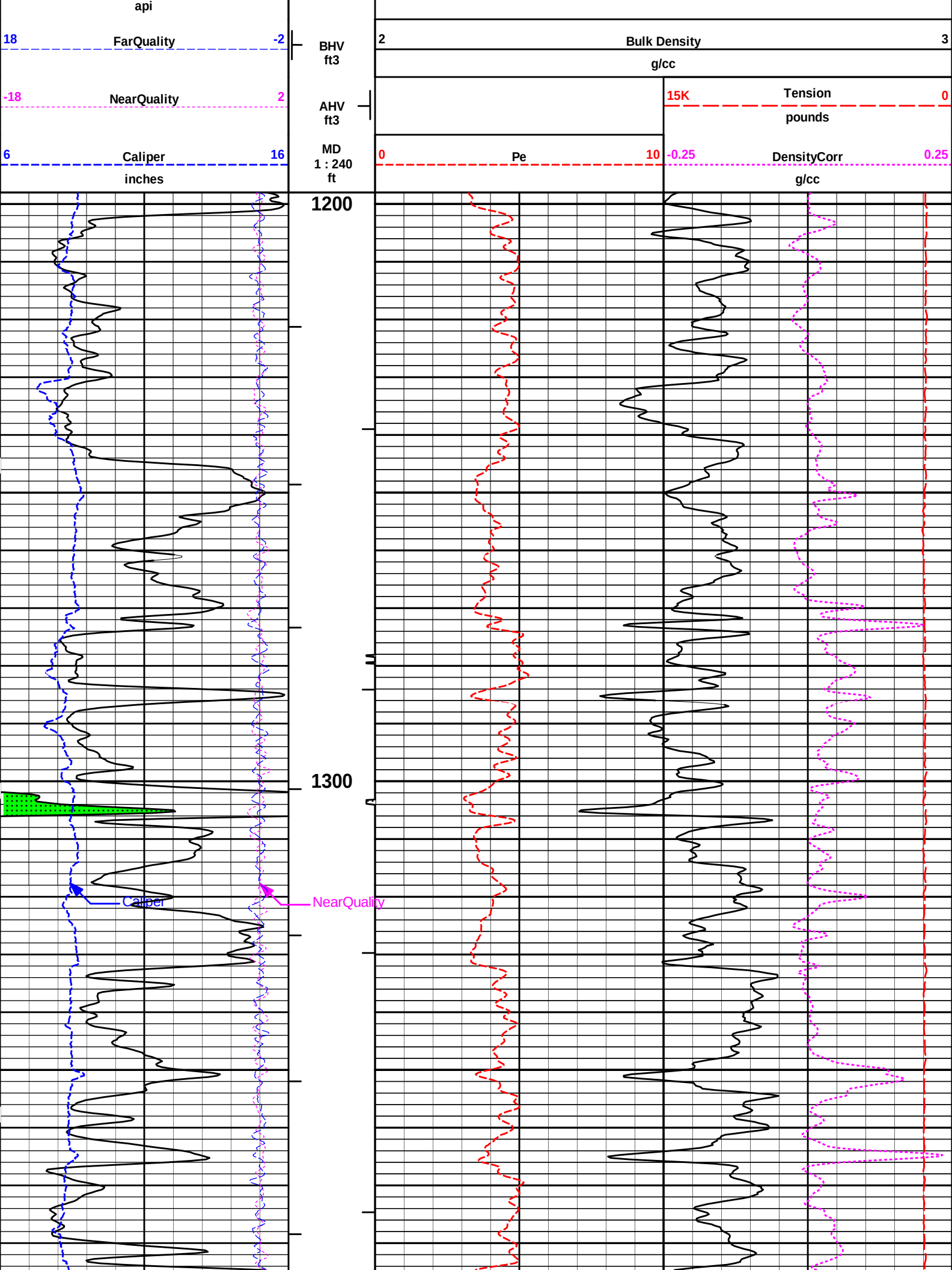
REPEAT SECTION

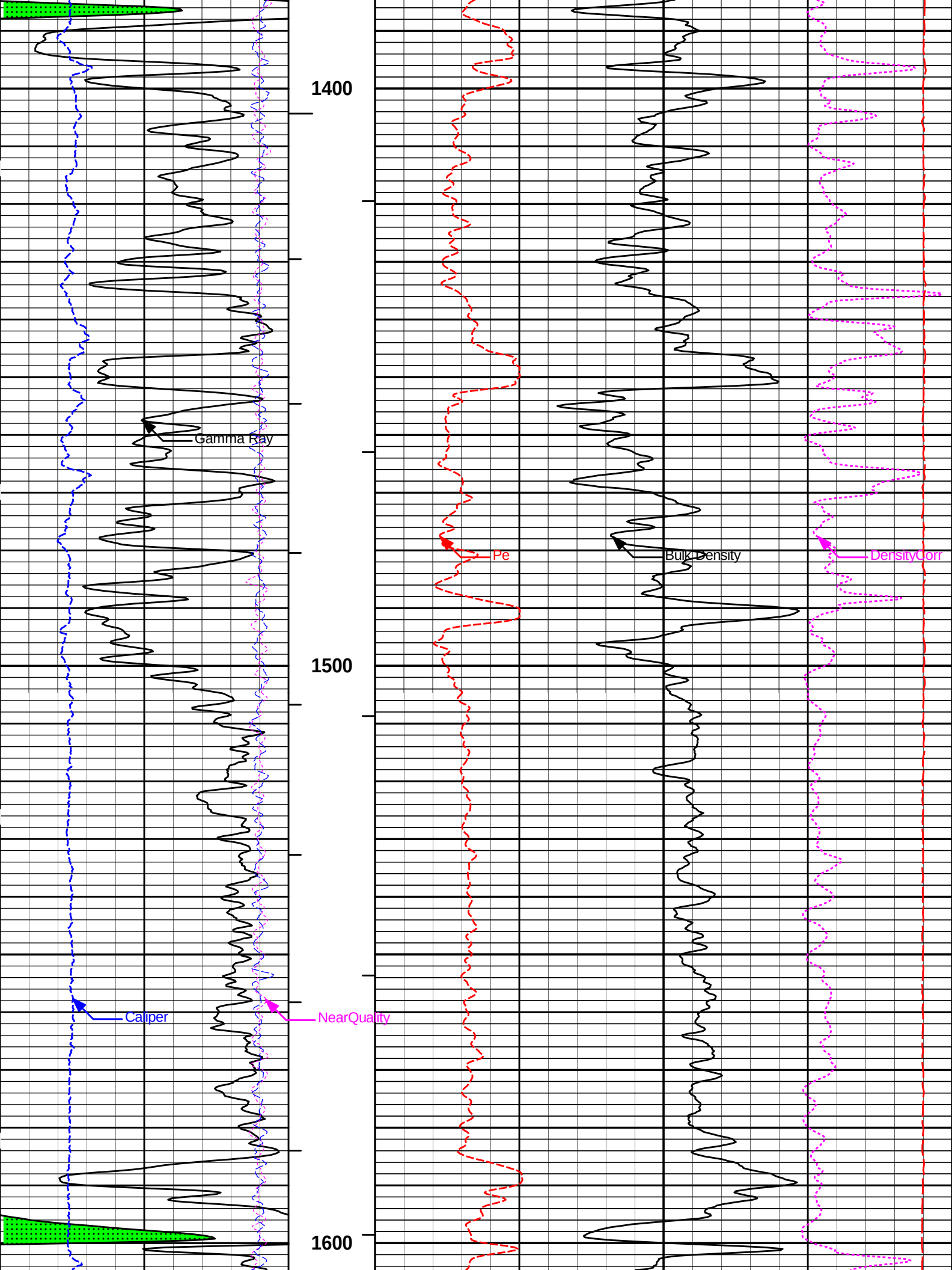
HALLIBURTON

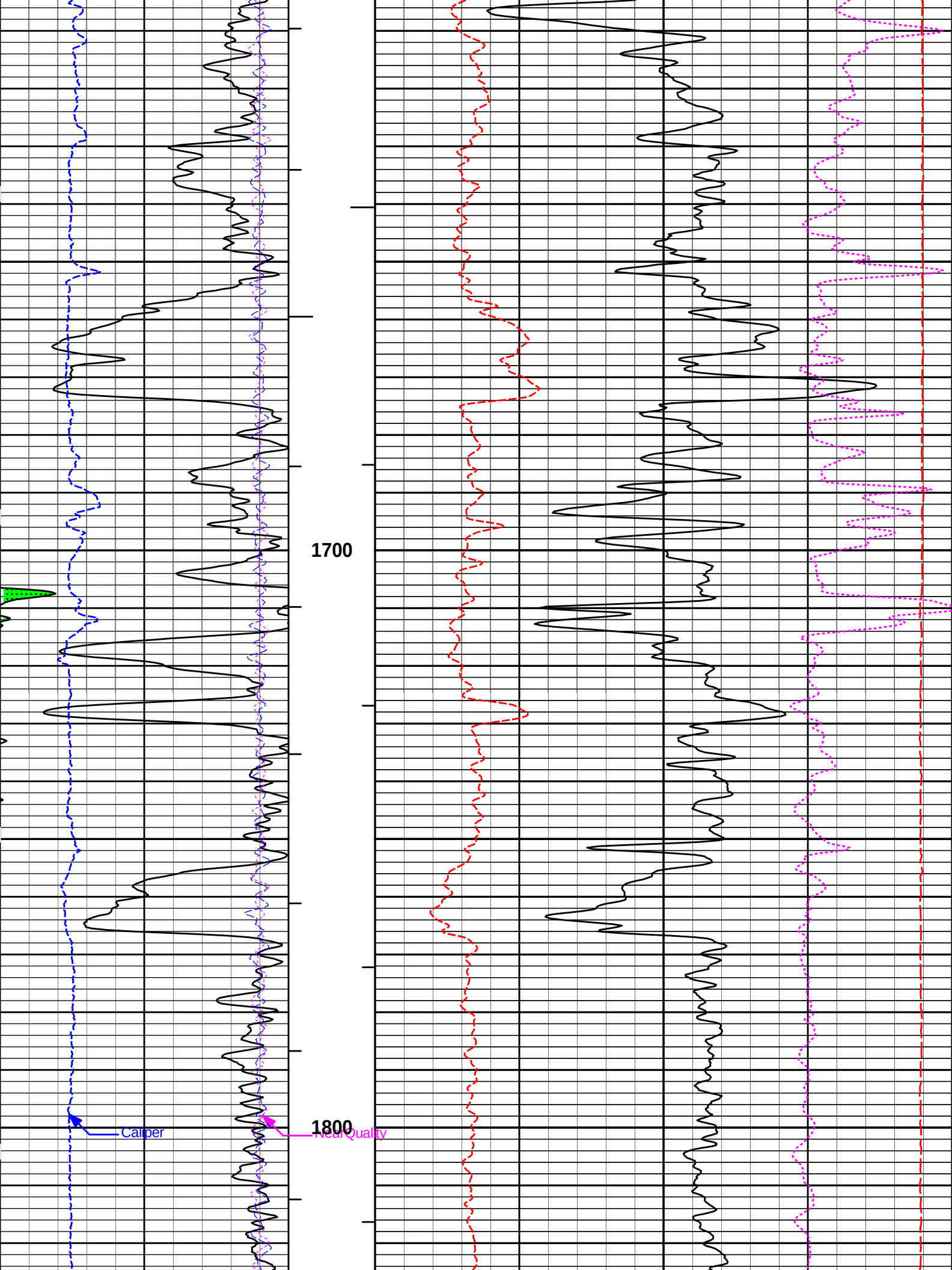
Plot Time: 29-May-13 09:10:53
Plot Range: 1198 ft to 3504.17 ft
Data: BARNETT_1-18\Well Based\DAQ-0001-003\
Plot File: \\LOCAL-BARNETT_1-18\0001 SP-GTET-DSN-SDL-ACRT-BNIPORO\BULKD_5_MAIN_LIB

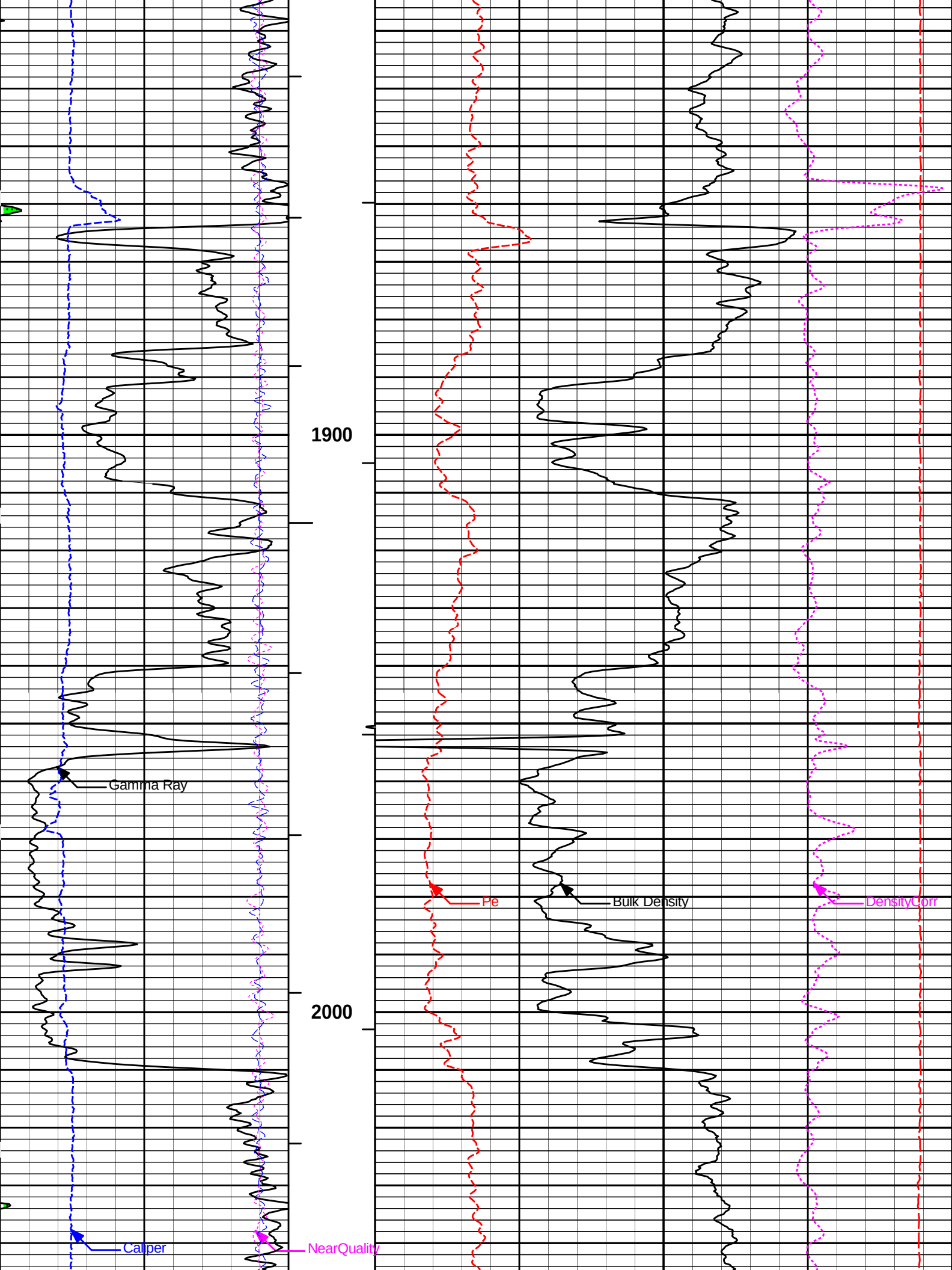
5 INCH MAIN LOG

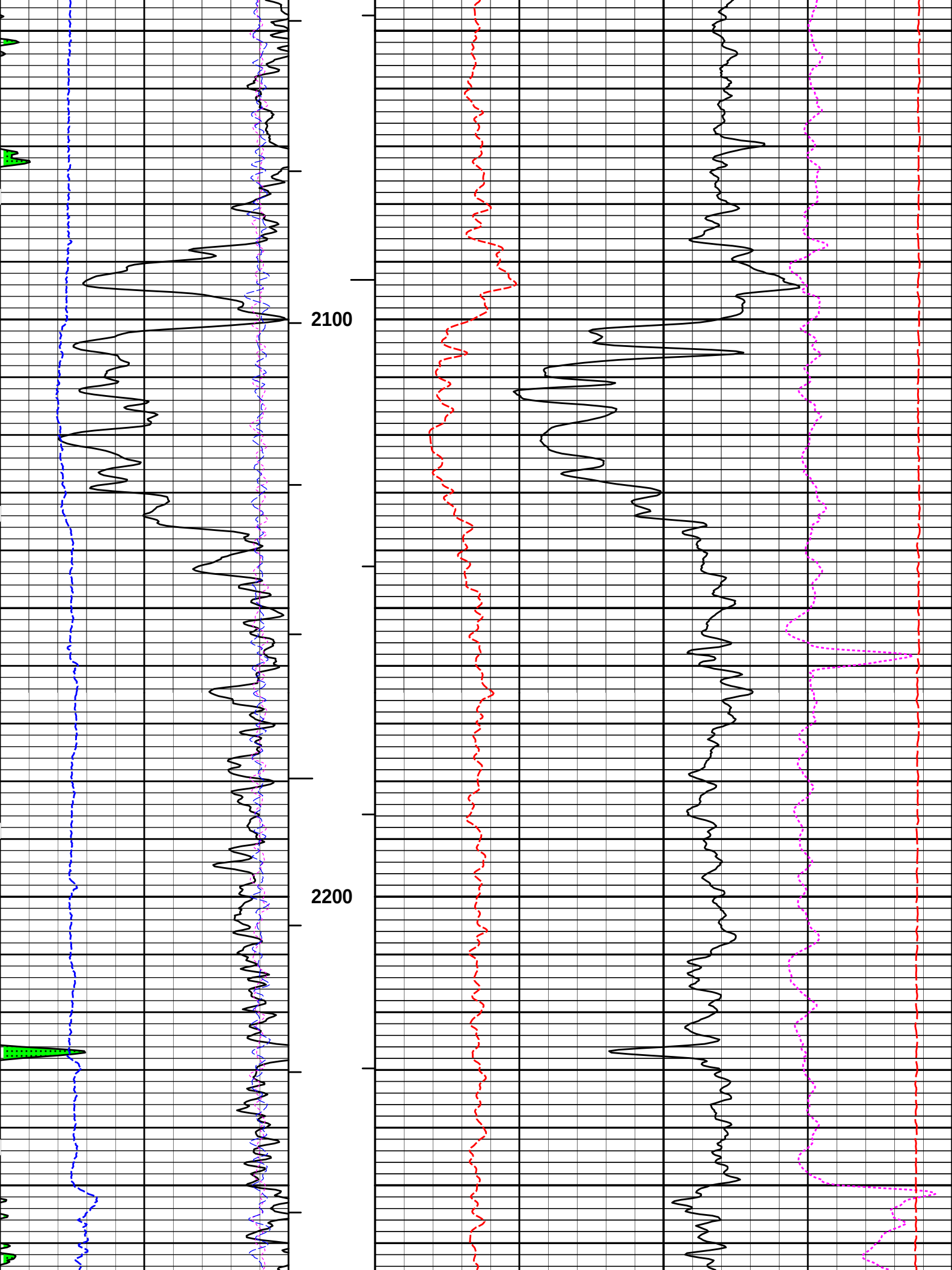
	SHALE	Tension Pull
0	Gamma Ray	150
		Tension Pull 10

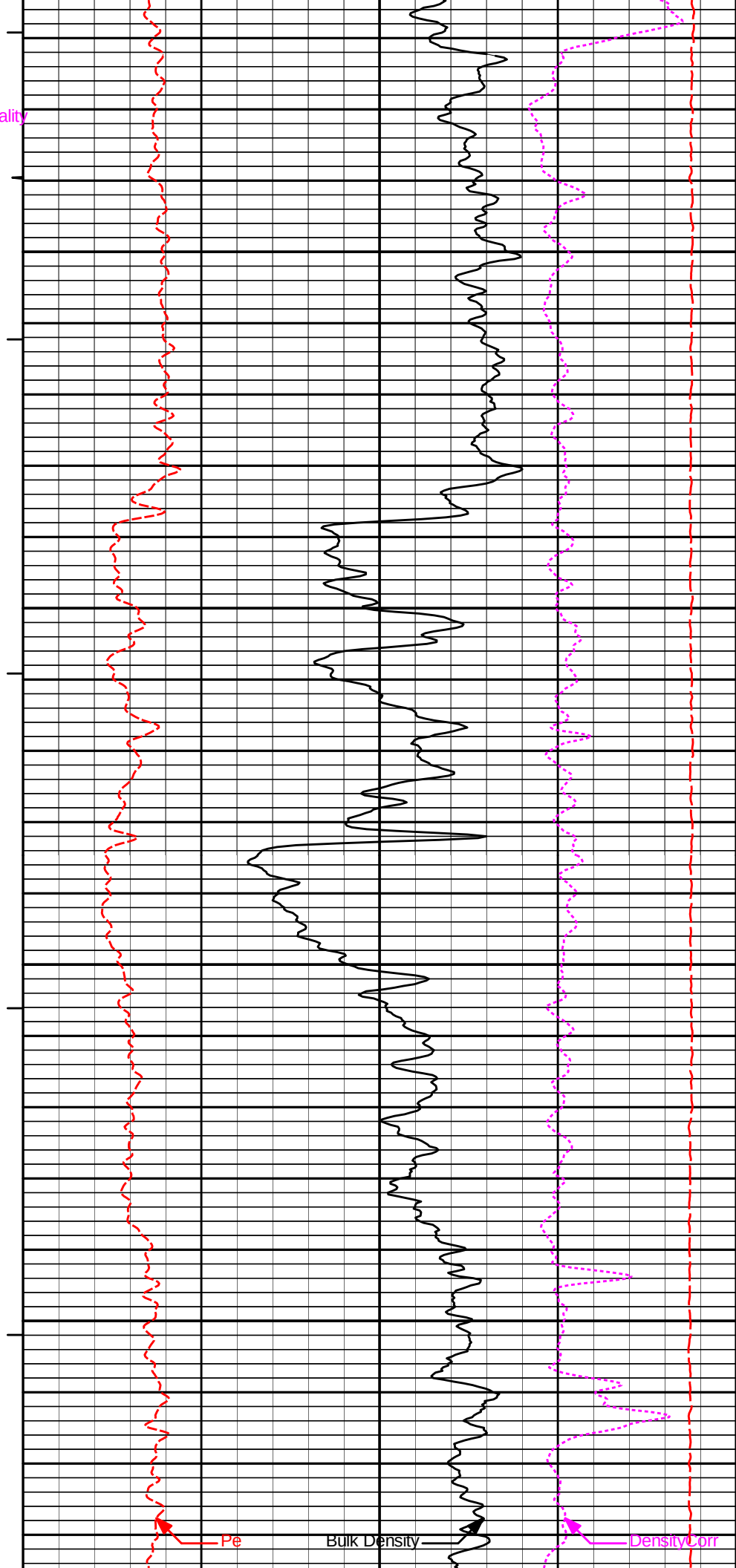
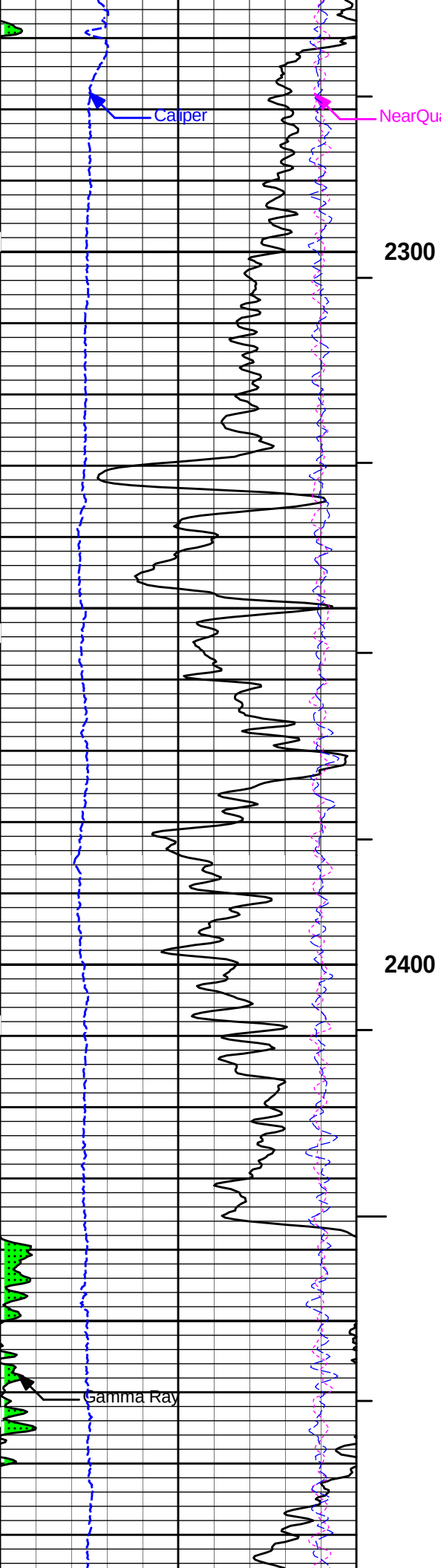


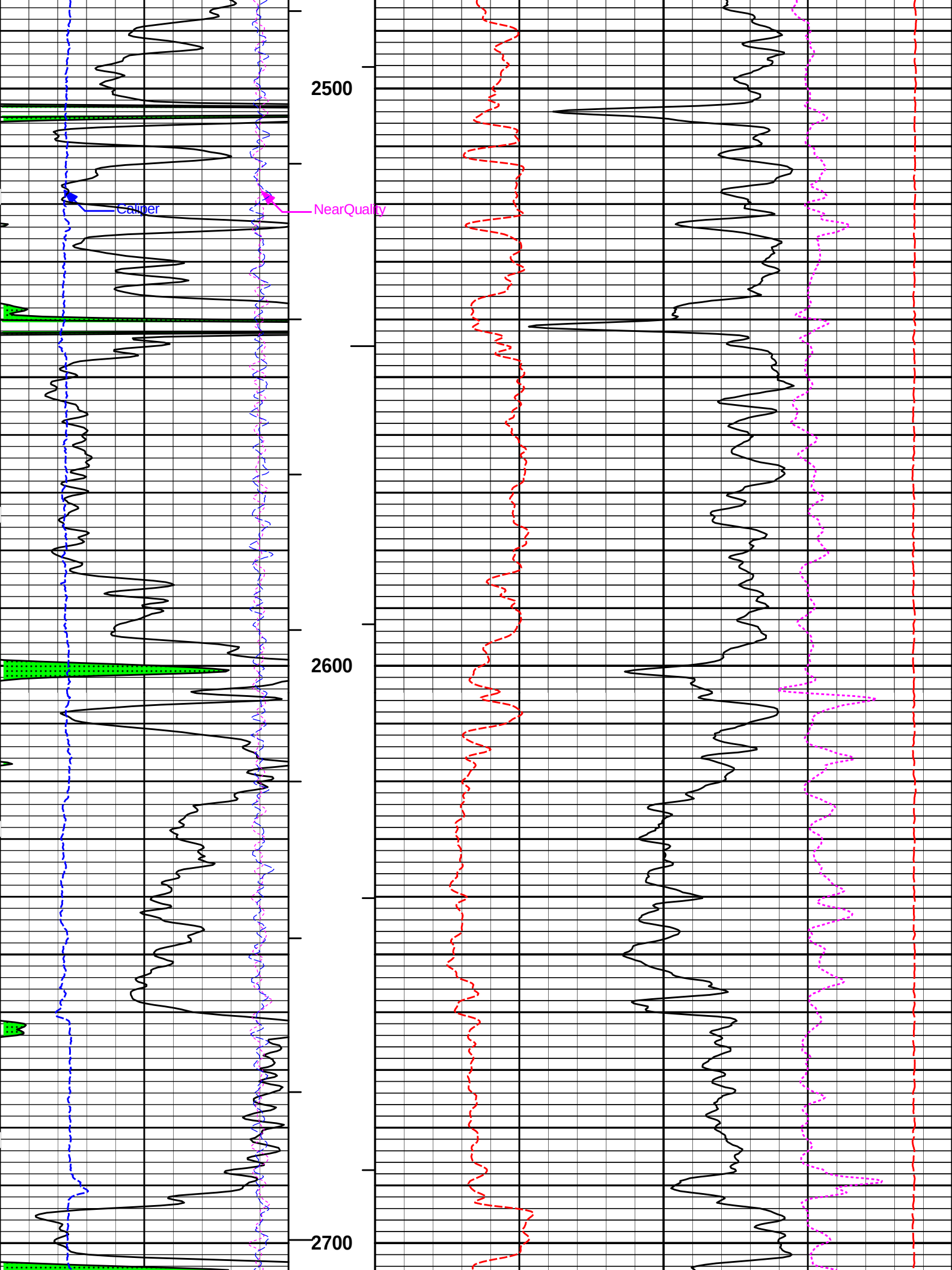


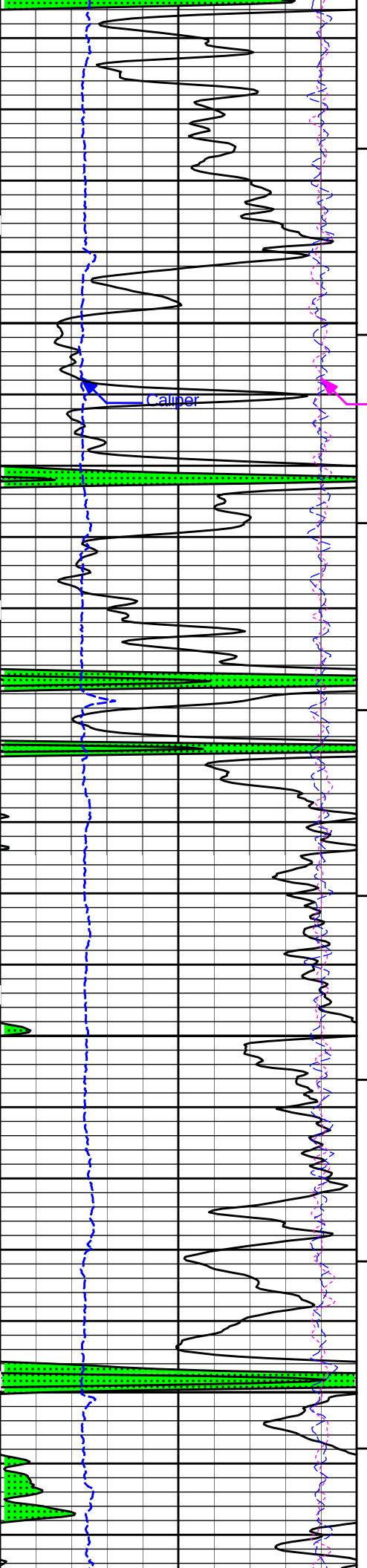








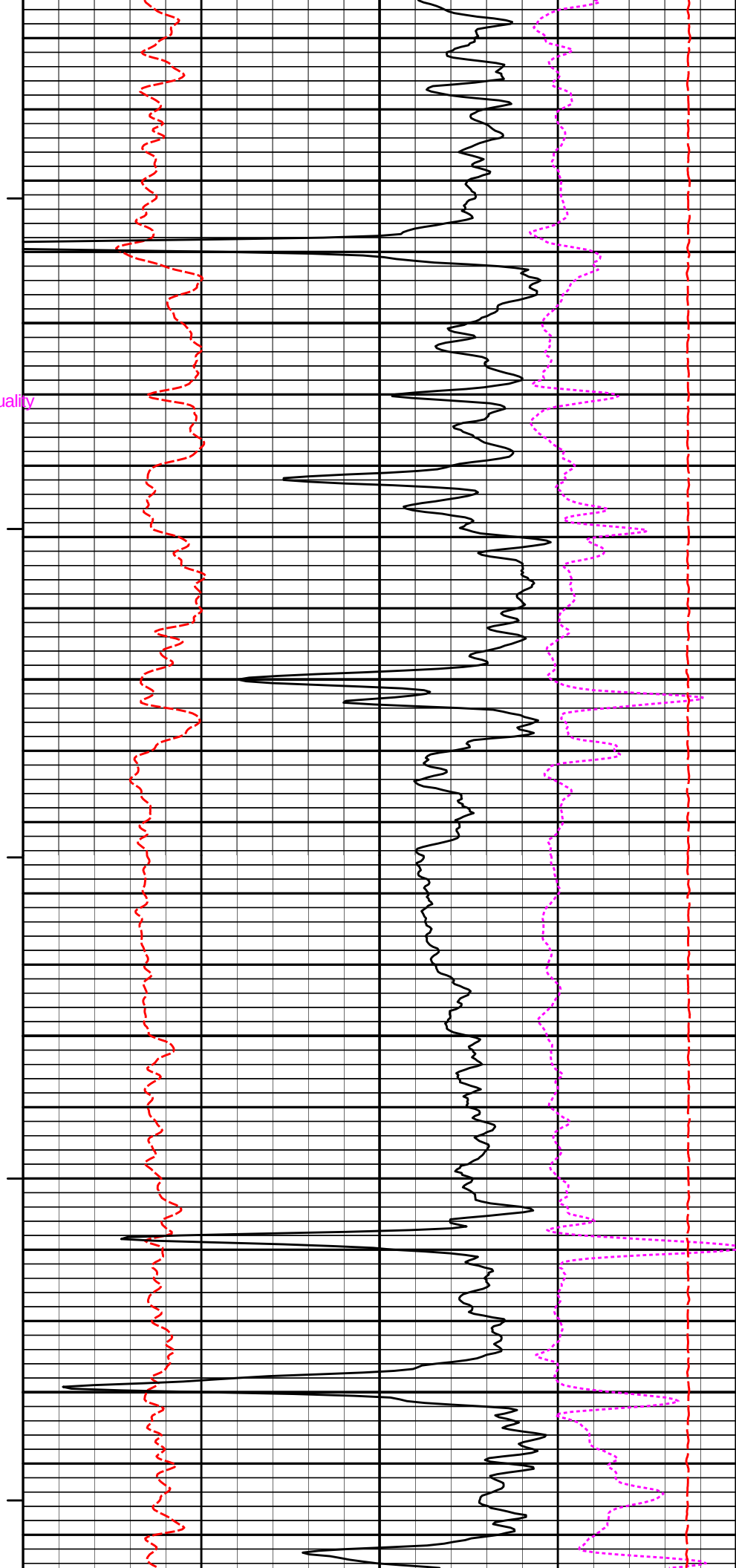


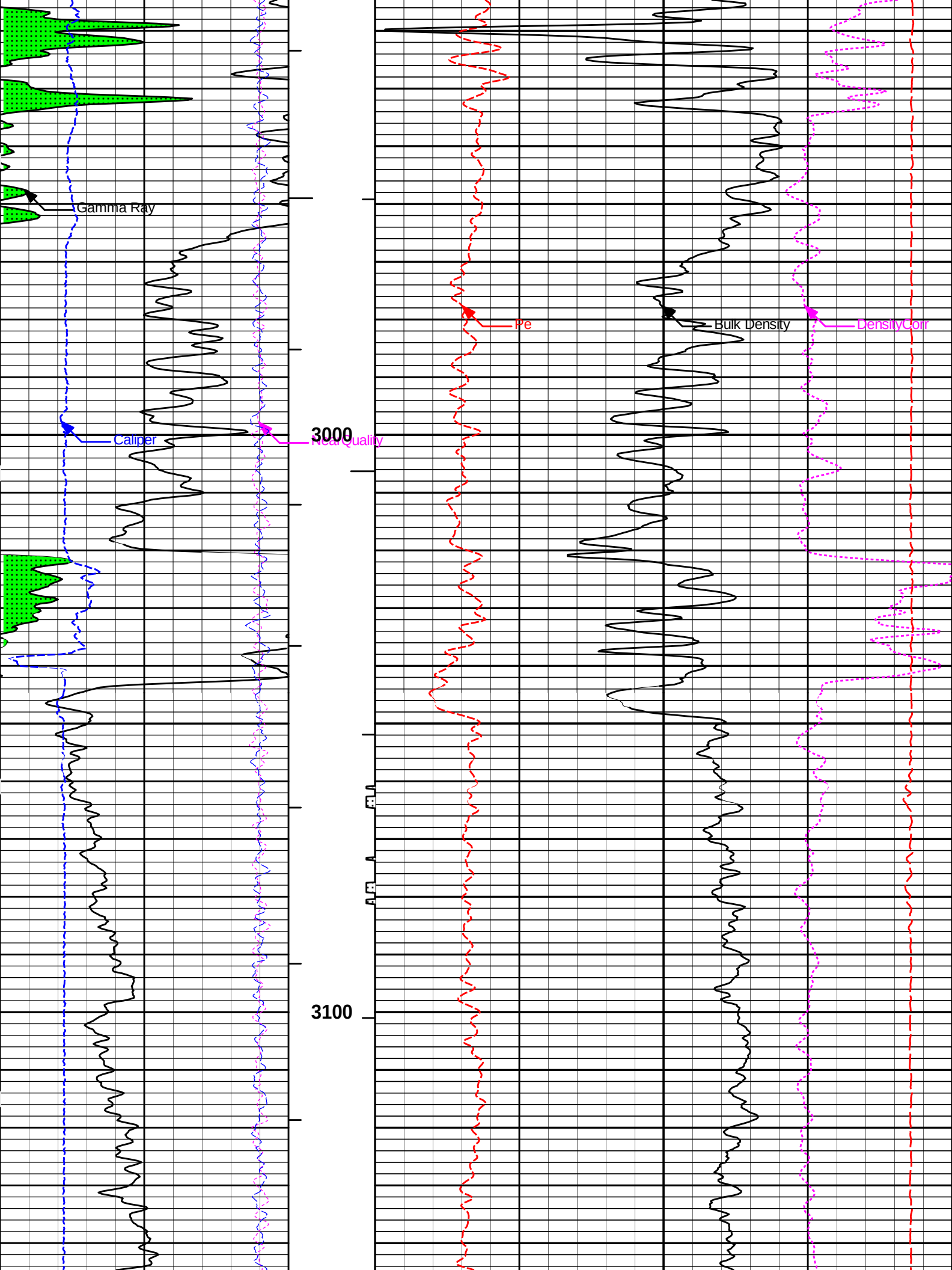


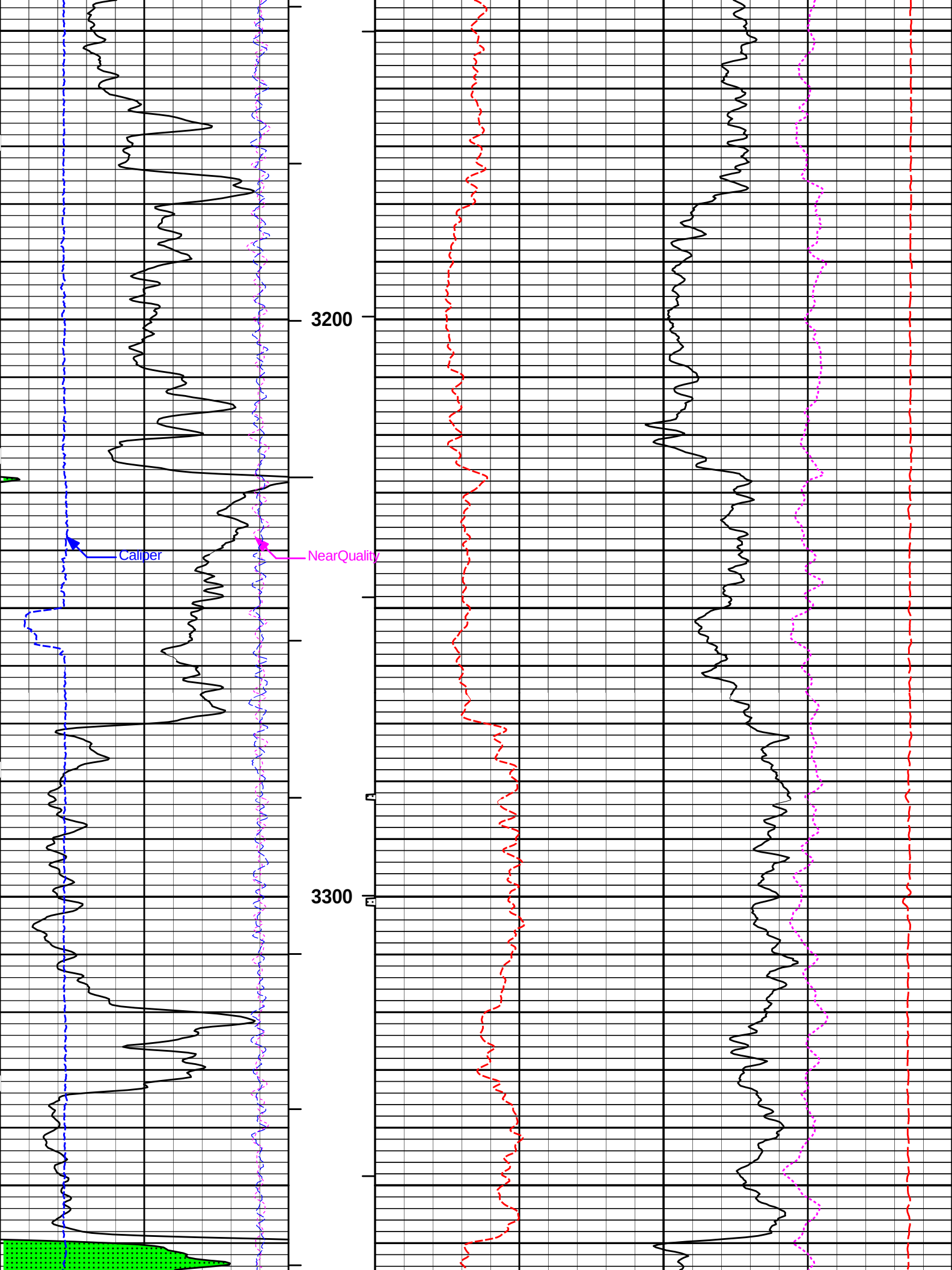
NearQuality

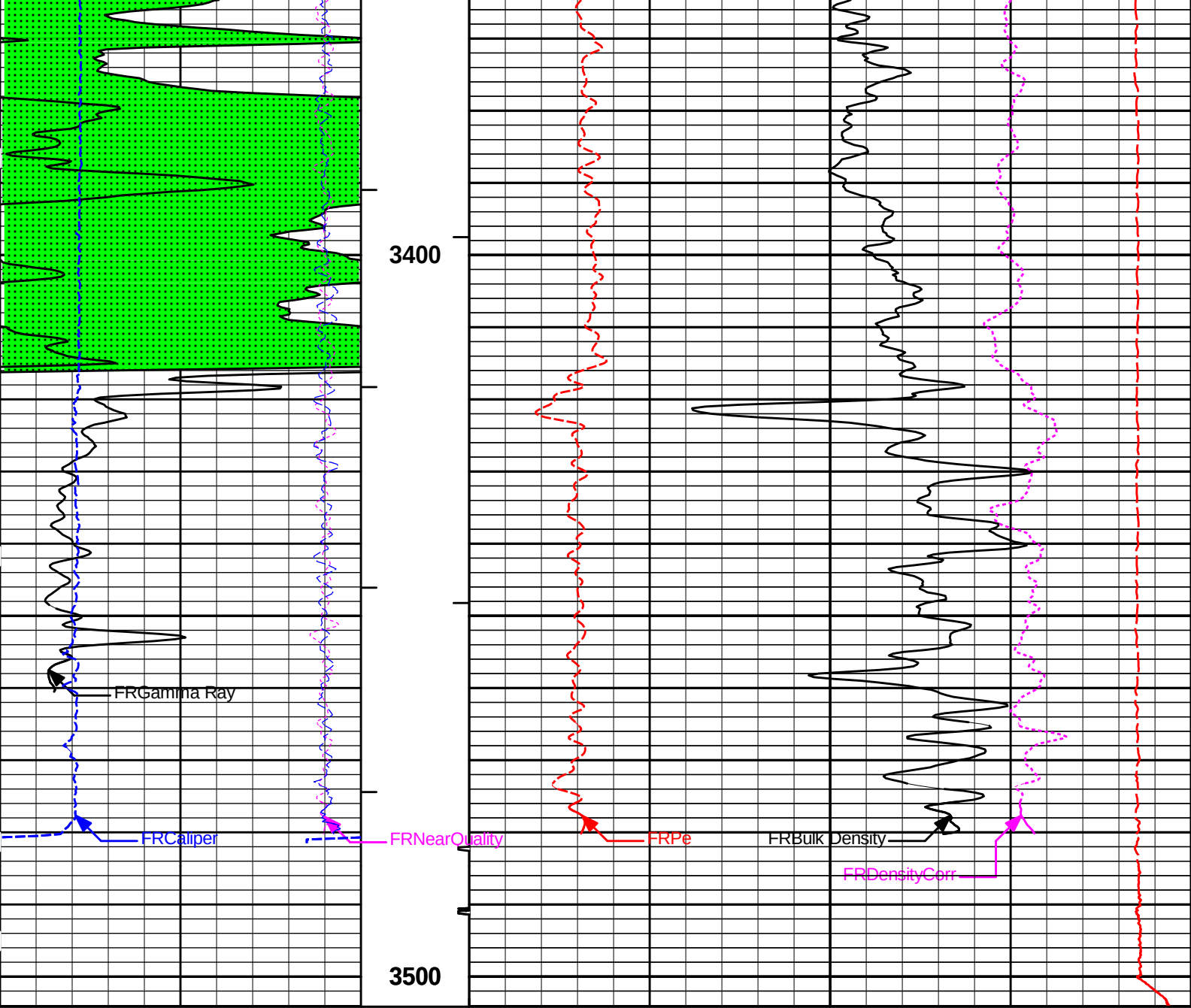
2800

2900









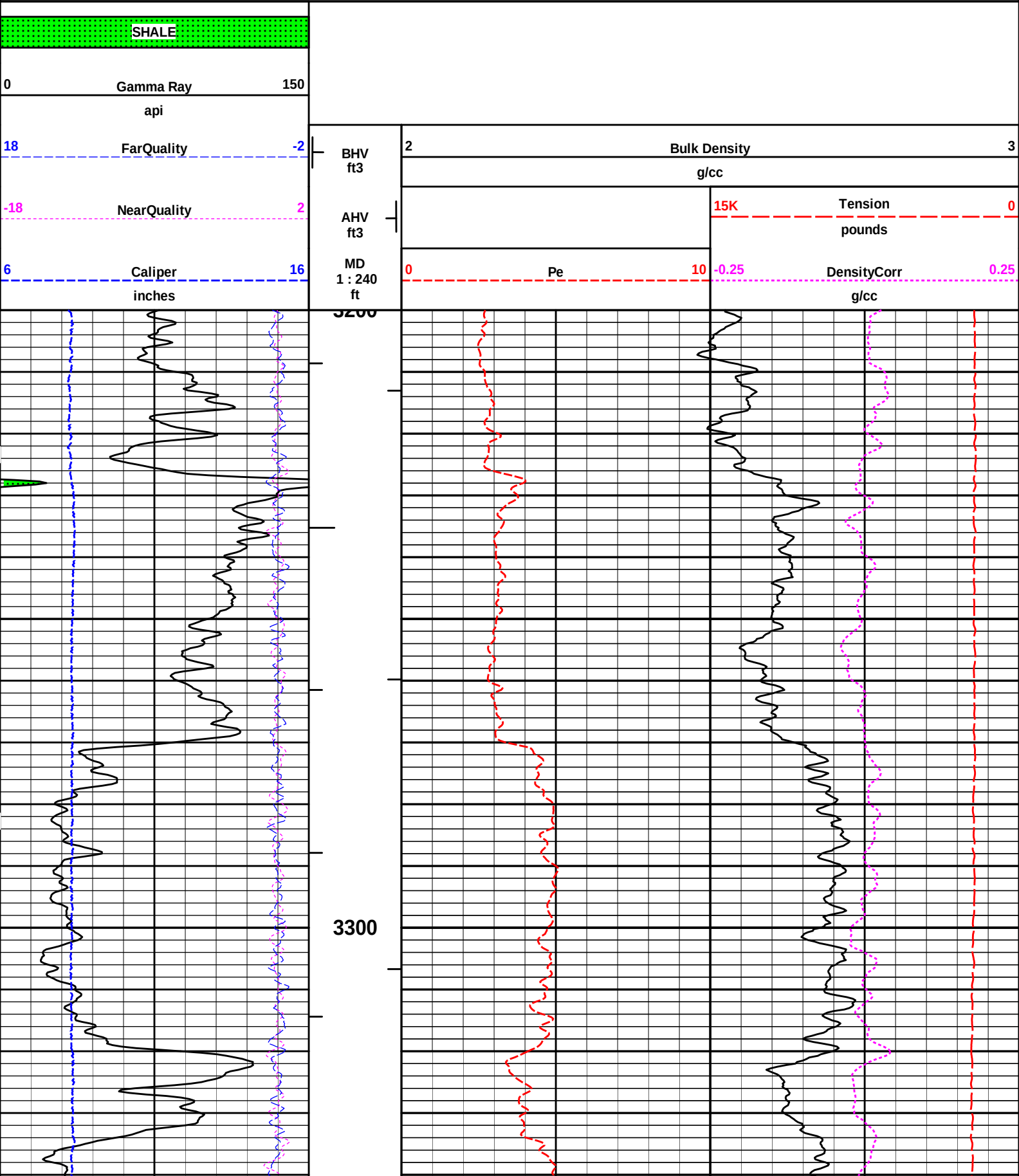
6	Caliper	16	MD	0	Pe	10	-0.25	DensityCorr	0.25
	inches		1 : 240					g/cc	
-18	NearQuality	2	AHV				15K	Tension	0
			ft3					pounds	
18	FarQuality	-2	BHV	2	Bulk Density			3	
			ft3		g/cc				
0	Gamma Ray	150	Tension Pull	10					
	api								
	SHALE		Tension Pull						

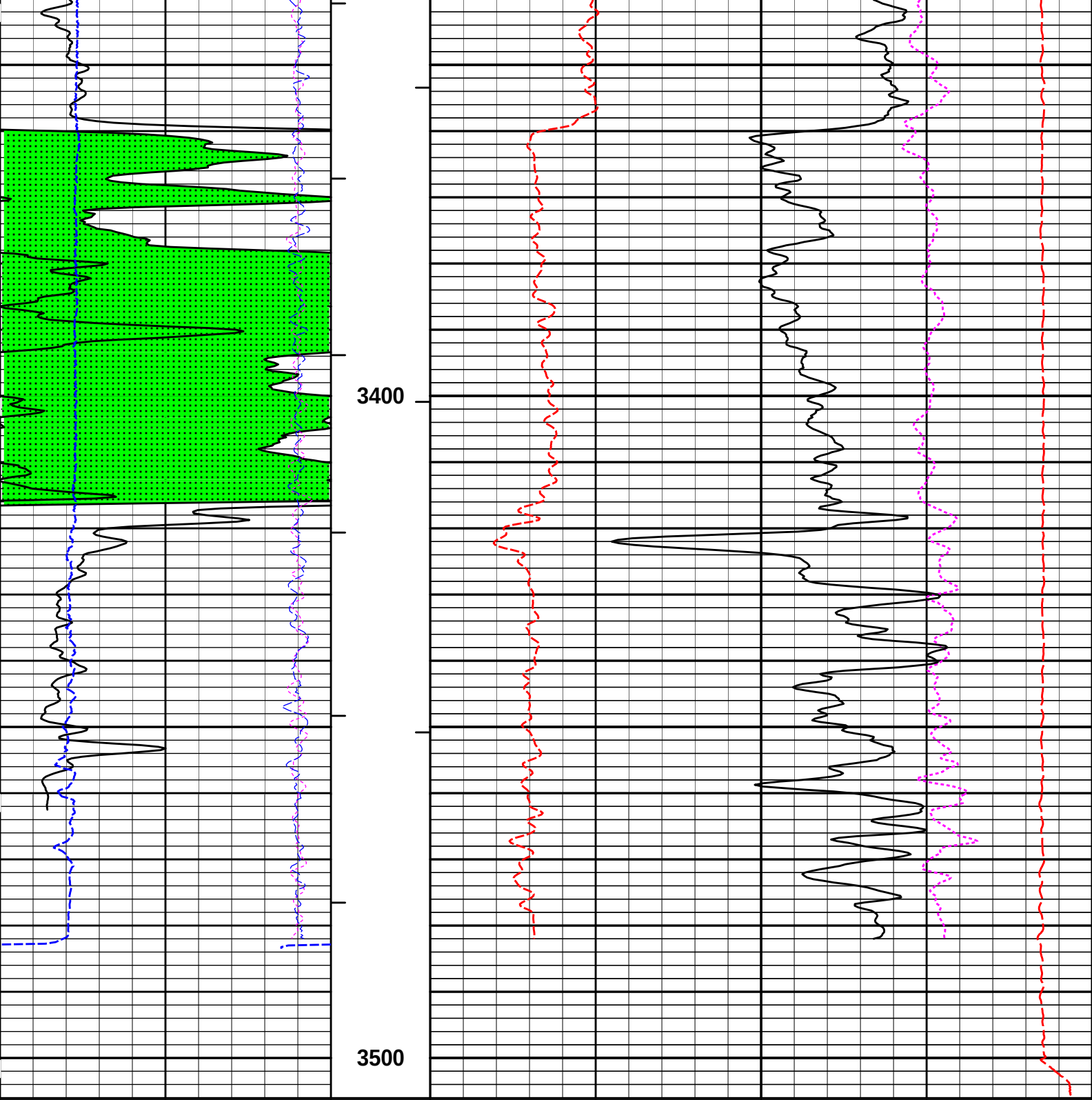
HALLIBURTON

Plot Time: 29-May-13 09:11:02
Plot Range: 1198 ft to 3504.17 ft
Data: BARNETT_1-18\Well Based\DAQ-0001-003\
Plot File: \\-LOCAL-IBARNETT_1-18\0001 SP-GTET-DSN-SDL-ACRT-BNIPORO\BULKD_5_MAIN_LIB

5 INCH MAIN LOG

REPEAT SECTION



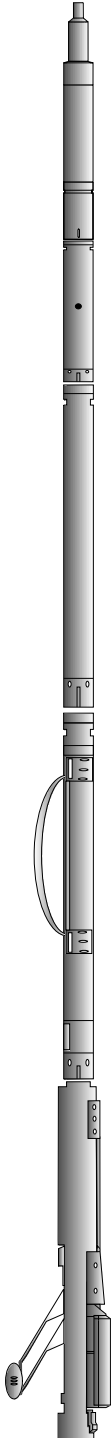


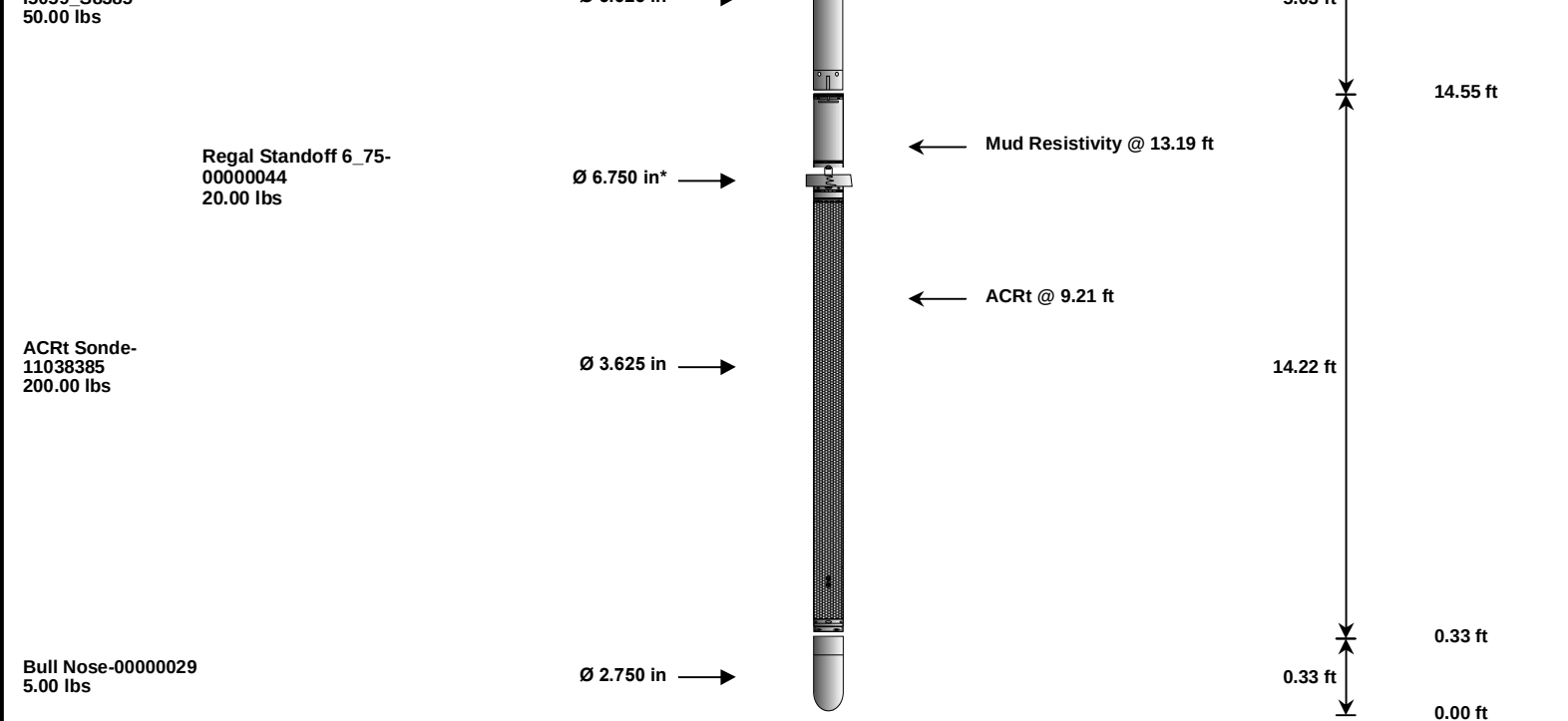
6 Caliper inches 16	MD 1 : 240 ft	0 Pe 10	-0.25 DensityCorr g/cc 0.25
-18 NearQuality 2	AHV ft3	15K Tension pounds 0	
18 FarQuality -2	BHV ft3	2 Bulk Density g/cc 3	
0 Gamma Ray api 150			
SHALE			

REPEAT SECTION

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
						58.59 ft
RWCH-001 135.00 lbs		Ø 3.625 in →		← Load Cell @ 54.91 ft ← BH Temperature @ 54.34 ft	6.25 ft	52.34 ft
SP Sub-11441455 60.00 lbs		Ø 3.625 in →		← SP @ 50.56 ft	3.74 ft	48.60 ft
GTET-11048627 165.00 lbs		Ø 3.625 in →		← GammaRay @ 42.54 ft	8.52 ft	40.08 ft
DSNT-11019643 174.00 lbs	DSN Decentralizer- 11005605 6.60 lbs	Ø 5.000 in* → Ø 3.625 in →		← DSN Far @ 33.15 ft ← DSN Near @ 32.40 ft	9.69 ft	30.40 ft
SDLT-10950489 360.00 lbs	SDLT Pad-10844781 65.00 lbs Microlog Pad-10950489 8.00 lbs	Ø 4.500 in → Ø 4.750 in* → Ø 4.750 in* →		Microlog @ 22.58 ft SDL Caliper @ 22.40 ft SDL @ 22.39 ft	10.81 ft	19.58 ft
ACRt Instrument- I5059 S8385		Ø 3.625 in →			5.03 ft	



Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
RWCH	Releasable Wireline Cable Head	001	135.00	6.25	52.34	300.00
SP	SP Sub	11441455	60.00	3.74	48.60	300.00
GTET	Gamma Telemetry Tool	11048627	165.00	8.52	40.08	60.00
DSNT	Dual Spaced Neutron	11019643	174.00	9.69	30.40	60.00
DCNT	DSN Decentralizer	11005605	6.60	5.13	33.73	300.00
SDLT	Spectral Density Tool	10950489	360.00	10.81	19.58	60.00
SDLP	Density Insite Pad	10844781	65.00	2.55	21.79	60.00
MICP	Microlog Pad	10950489	8.00	1.00	22.08	60.00
ACRt	Array Compensated True Resistivity Instrument Section	I5059_S8385	50.00	5.03	14.55	300.00
ACRt	Array Compensated True Resistivity Sonde Section	11038385	200.00	14.22	0.33	300.00
RSOF	Regal Standoff 6.75in	00000044	20.00	0.52	12.05	300.00
BLNS	Bull Nose	00000029	5.00	0.33	0.00	300.00
Total			1,248.60	58.59		
* Not included in Total Length and Length Accumulation.						
Data: BARNETT_1-18\0001 SP-GTET-DSN-SDL-ACRT-BN\IDLE					Date: 29-May-13 06:18:27	

HALLIBURTON			
CALIBRATION REPORT			
NATURAL GAMMA RAY TOOL SHOP CALIBRATION			
Tool Name:	GTET - 11048627	Reference Calibration Date:	26-Apr-13 09:28:26
Engineer:	J. BOLLLOM	Calibration Date:	16-May-13 10:59:59
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1
Calibrator Source S/N: TB146			
Calibrator API Reference:265.00 api			
Equivalent Calibrator API Reference:269.6 api			
Measurement	Measured	Calibrated	Units
Background	16.7	15.8	api
Background + Calibrator	296.1	280.8	api
Calibrator	264.1	265.0	api
NATURAL GAMMA RAY TOOL FIELD CALIBRATION			

Tool Name: GTET - 11048627		Reference Calibration Date: 16-May-13 10:59:59		
Engineer: THOMAS HYDE		Calibration Date: 28-May-13 08:21:38		
Software Version: WL INSITE R3.8.4 (Build 5)		Calibration Version: 1		
Calibrator Source S/N: TB146				
Calibrator API Reference:265.00 api				
Equivalent Calibrator API Reference:269.6 api				
Field Verification		Shop	Field	Units
Background		15.8	50.8	api
Background + Calibrator		280.8	310.6	api
Calibrator		265.0	259.8	api
Shop		Field	Difference	Tolerance
265.0		259.8	5.2	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name: DSNT - 11019643		Reference Calibration Date: 30-Apr-13 08:38:49		
Engineer: THOMAS HYDE		Calibration Date: 20-May-13 09:14:09		
Software Version: WL INSITE R3.8.4 (Build 5)		Calibration Version: 1		
Logging Source S/N: 696				
Tank Serial Number: LIBERAL_NEUTRON				
Reference value assigned to Tank: 51.680				
Snow Block S/N: 696				
Calibration Tank Water Temperature: 70 degF				
Min. Tool Housing Outside Diameter: 3.620 in				
CALIBRATION CONSTANTS				
Measurement	Prev. Value	New Value	Control Limit On New Value	
Gain:	0.948	0.948	0.900 - 1.100	
WATER TANK SUMMARY (Horizontal Water Tank)				
Measurement	Current Reading (Previous Coef.)	Calibrated (New Coef.)	Change	Control Limit On Change
Porosity (decp):	0.2107	0.2107	0.0001	+/- 0.0020
Calibrated Ratio:	9.72	9.72	0.003	+/- 0.050
VERIFIER				
Measurement	Value	Control Limit		
Snow-Block Porosity (decp):	0.0614	0.02000 - 0.09000		
PASS/FAIL SUMMARY				
Background Check:		Passed		
Gain-Range Check:		Passed		
Snow-Block Check:		Passed		

DUAL SPACED NEUTRON FIELD CALIBRATION

Tool Name: DSNT - 11019643		Reference Calibration Date: 20-May-13 09:14:09	
Engineer: THOMAS HYDE		Calibration Date: 28-May-13 08:29:52	
Software Version: WL INSITE R3.8.4 (Build 5)		Calibration Version: 1	
Logging Source S/N: 696			
Snow Block S/N: 696			
NEUTRON FIELD CHECK SUMMARY			

NEUTRON FIELD-CHECK SUMMARY				
	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0614	0.0702	0.0088	+/- 0.0150
PASS/FAIL SUMMARY				
Block Change Check:			Passed	
Snow Block Stat Check:			Passed	
Temperature Check:			Passed	

DENSITY CALIPER SHOP CALIBRATION				
Tool Name:	SDLT - 10950489		Reference Calibration Date:	20-May-13 08:35:15
Engineer:	THOMAS HYDE		Calibration Date:	20-May-13 08:44:21
Software Version:	WL INSITE R3.8.4 (Build 5)		Calibration Version:	1
Host Tool Name:	DSNT - 11019643			

CALIBRATION COEFFICIENTS			
Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-2615.02	-2643.40	-7000.00 - -1000.00
Pad Gain	0.0004197	0.0004222	0.000200 - 0.000600
Arm Offset	-850.13	-310.49	-5000.00 - 3000.00
Arm Gain	0.0005861	0.0005308	0.000300 - 0.000700
Arm Power	-0.000009574	-0.000006371	-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)	3.74	3.75	0.01	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.43	6.50	0.07	+/- 0.20
Medium Ring (in)	8.29	8.25	-0.04	+/- 0.20
Large Ring (in)	14.90	15.00	0.10	+/- 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 - 10950489		Reference Calibration Date:	20-May-13 08:44:21
Engineer:	THOMAS HYDE		Calibration Date:	28-May-13 08:25:47
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	3.85	0.10	+/- 0.10
Ring Diameter	8.25	8.11	-0.14	+/- 0.15

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

Pad Extension Check:		Passed		
Diameter Check:		Passed		
SPECTRAL DENSITY SHOP CALIBRATION				
Tool Name:	SDLT Pad - 10844781	Reference Calibration Date:	26-Apr-13 12:06:12	
Engineer:	THOMAS HYDE	Calibration Date:	20-May-13 08:08:55	
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1	
Logging Source S/N: 5168GW				
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	1.0405	1.0458	0.90 - 1.10	
Near Dens Gain	1.0078	1.0273	0.90 - 1.10	
Near Peak Gain	1.0058	1.0263	0.90 - 1.10	
Near Lith Gain	0.9690	1.0002	0.90 - 1.10	
Far Bar Gain	1.0133	1.0131	0.90 - 1.10	
Far Dens Gain	0.9991	0.9998	0.90 - 1.10	
Far Peak Gain	0.9940	0.9931	0.90 - 1.10	
Far Lith Gain	0.9675	0.9703	0.90 - 1.10	
Near Bar Offset	-0.1171	-0.2267	NONE	
Near Dens Offset	0.1539	-0.0660	NONE	
Near Peak Offset	0.1610	-0.0561	NONE	
Near Lith Offset	0.4530	0.1465	NONE	
Far Bar Offset	0.0693	0.0158	NONE	
Far Dens Offset	0.1735	0.1191	NONE	
Far Peak Offset	0.1818	0.1370	NONE	
Far Lith Offset	0.3535	0.2745	NONE	
Near Bar Background	801.25	799.54	700 - 1450	
Near Dens Background	263.54	263.01	230 - 480	
Near Peak Background	114.82	114.80	100 - 210	
Near Lith Background	142.21	140.52	125 - 260	
Far Bar Background	522.38	523.76	450 - 900	
Far Dens Background	204.85	205.92	175 - 345	
Far Peak Background	82.46	82.46	70 - 140	
Far Lith Background	84.90	83.92	75 - 145	
CALIBRATION BLOCK SUMMARY				
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.693	1.684	-0.009	+/- 0.015
Pe	2.538	2.559	0.021	+/- 0.150
ALUMINUM				
Density (g/cc)	2.601	2.598	-0.003	+/- 0.01500
Pe	3.145	3.127	-0.018	+/- 0.150
TOOL SUMMARY				
Measurement	Near Detector	Far Detector		
Measurement	Measurement	Measurement	Measurement	Measurement

	Value	Control Limits	Value	Control Limits
QUALITY				
Background	-0.0011	+/- 0.0110	-0.0003	+/- 0.0140
Magnesium Block	0.0008	+/- 0.0110	-0.0020	+/- 0.0140
Aluminum Block	0.0011	+/- 0.0110	-0.0001	+/- 0.0140
Resolution	9.37	6.00 - 11.50	8.89	6.00 - 11.50
Internal Verifier(B+D+P+L)	1318	1200 - 2700	896	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 - 10844781	Reference Calibration Date:	20-May-13 08:08:55
Engineer:	THOMAS HYDE	Calibration Date:	28-May-13 08:21:40
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1

Pad Temperature: 68.7 degF

DENSITY FIELD CALIBRATION SUMMARY				
Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1317.877	1327.331	9.454	14.691
Far (B+D+P+L) cps	896.066	892.160	-3.906	16.289
Near Resolution	9.37	9.43	0.060	0.50
Far Resolution	8.89	9.00	0.110	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-11048627						
Gamma Ray Calibrator	265.0	259.8	-----	5.2	+/- 9.00	api
DSNT-11019643						
Snow-Block Porosity	0.0614	0.0702	-----	-0.0088	+/- 0.0150	decp
SDLT-10950489						
Pad Extension	3.75	3.85	-----	-0.10	+/-0.10	in
Ring Diameter	8.25	8.11	-----	0.14	+/-0.15	in
SDLT Pad-10844781						
Near(B+D+P+L)	1317.877	1327.331	-----	-9.454	+/-14.691	cps
Far(B+D+P+L)	896.066	892.160	-----	3.906	+/-16.289	cps

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	3500.00	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	
	Microlog Pad	MLOK	Process MicroLog Outputs?	Yes	
	SDLT Pad	DNOK	Process Density?	Yes	
	SDLT Pad	DNOK	Process Density EVR?	No	
	SDLT Pad	CB	Logging Calibration Blocks?	No	
	SDLT Pad	SPVT	SDLT Pad Temperature Valid?	Yes	
	SDLT Pad	DTWN	Disable temperature warning	No	

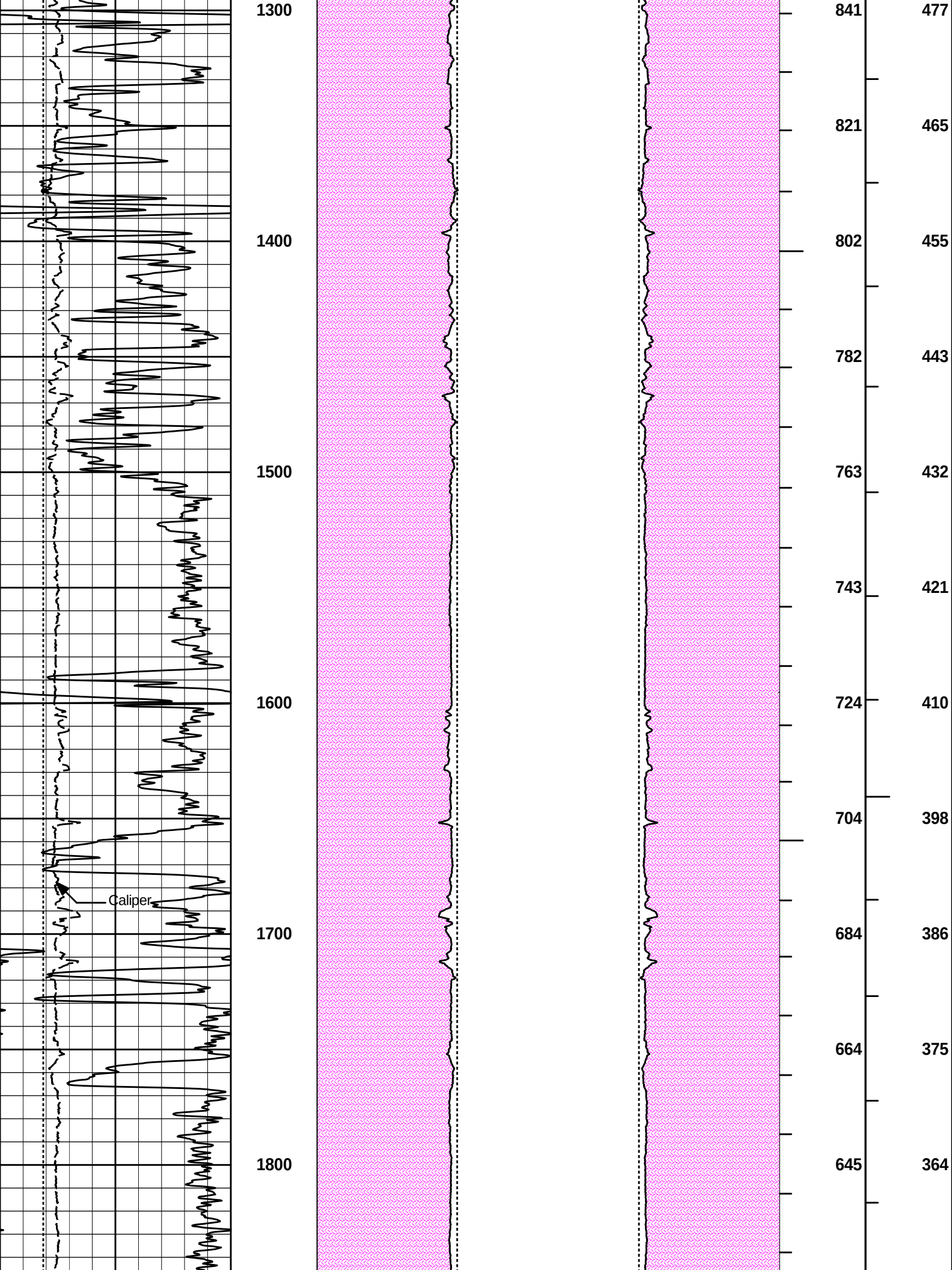
	SDLT Pad	DMA	Formation Density Matrix	2.710	g/cc
	SDLT Pad	DFL	Formation Density Fluid	1.000	g/cc
	ACRt Sonde	RTOK	Process ACRt?	Yes	
	ACRt Sonde	MNSO	Minimum Tool Standoff	1.50	in
	ACRt Sonde	TCS1	Temperature Correction Source	FP Lwr & FP Upr	
	ACRt Sonde	TPOS	Tool Position	Free Hanging	
	ACRt Sonde	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	
	ACRt Sonde	MRFX	Fixed mud resistivity	2000	ohmm
BOTTOM_____					
Data: BARNETT_1-18\0001 SP-GTET-DSN-SDL-ACRT-BN\IDLE				Date: 29-May-13 06:37:43	

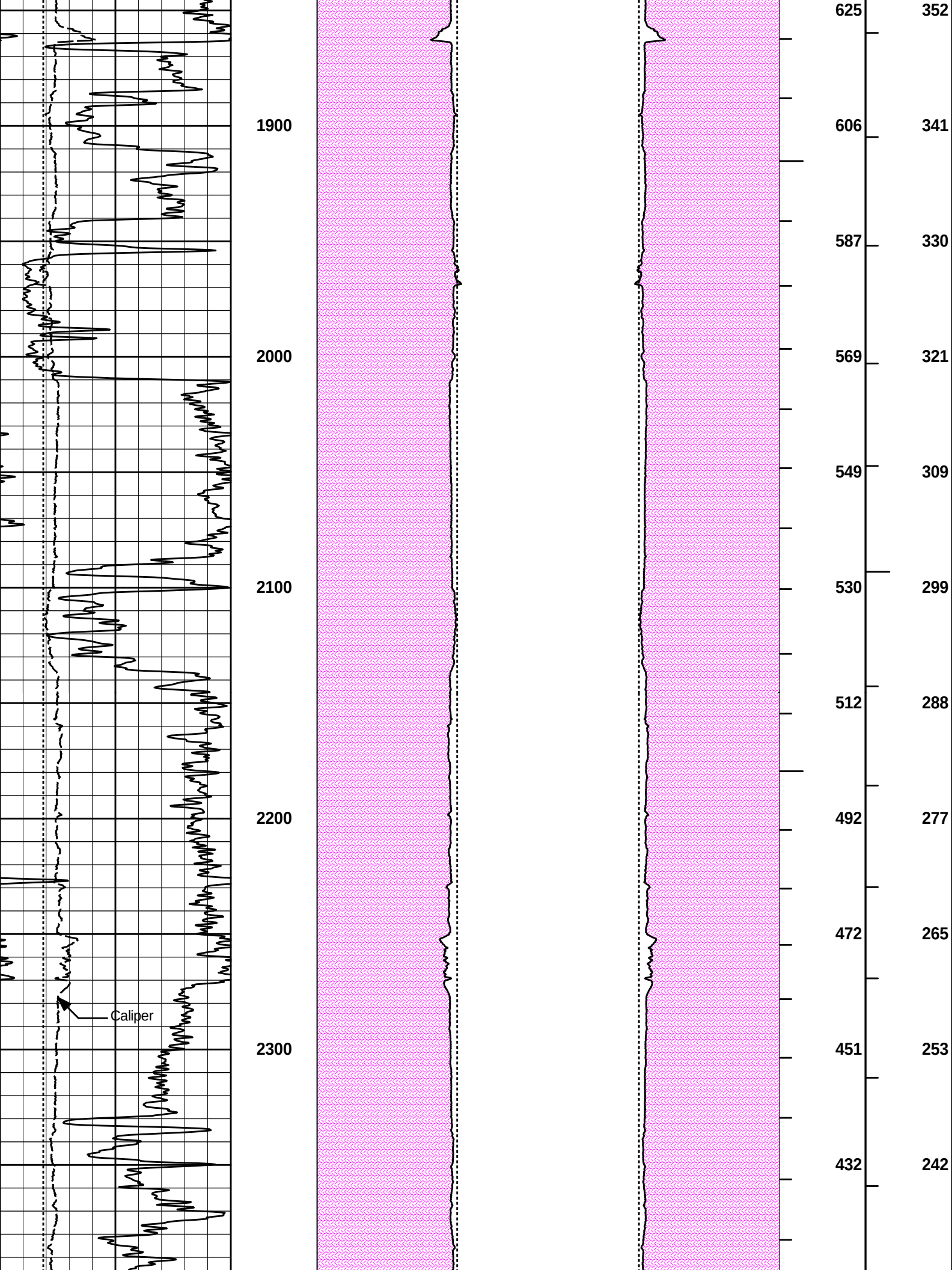
HALLIBURTON

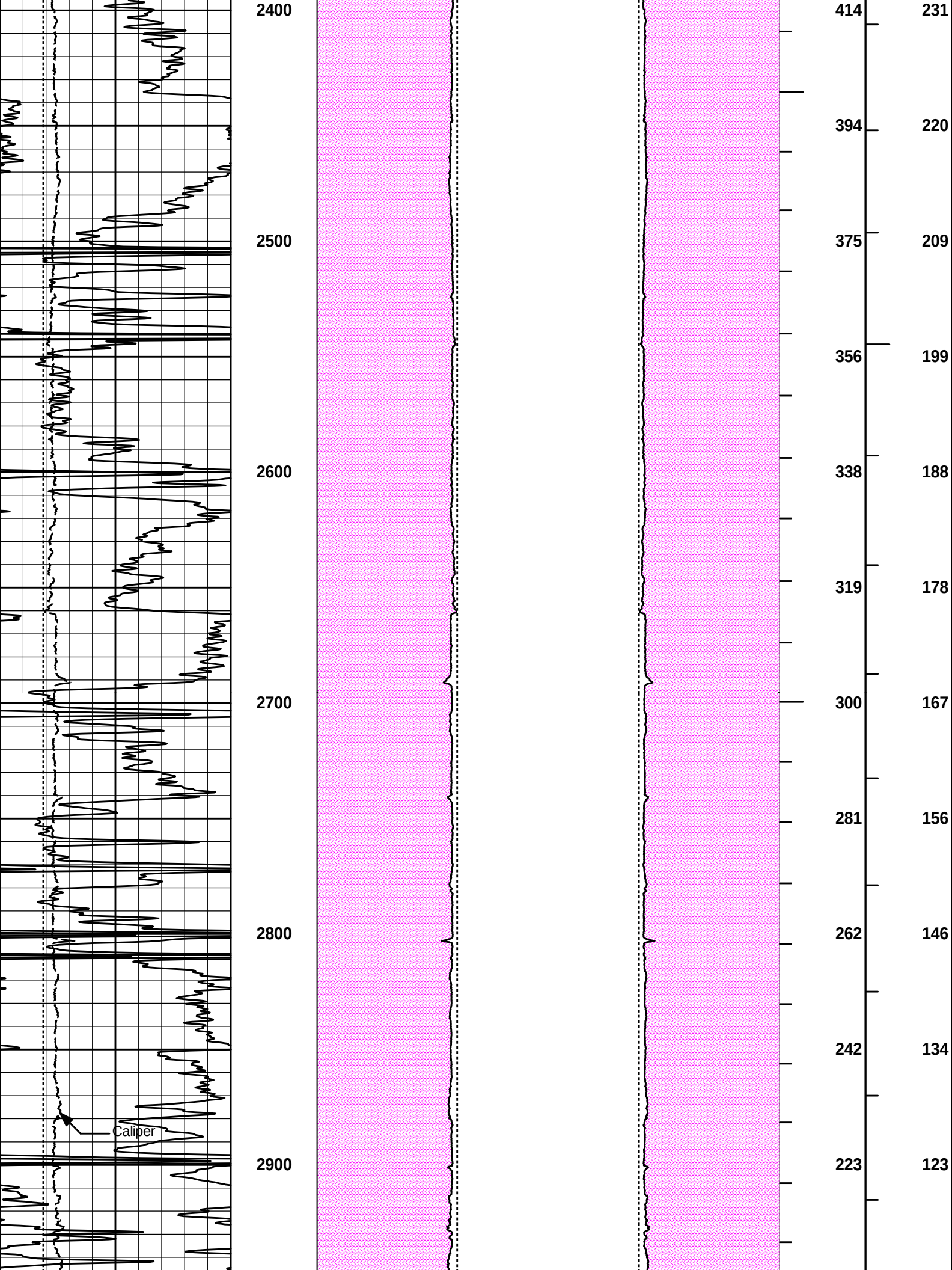
INPUTS, DELAYS AND FILTERS TABLE

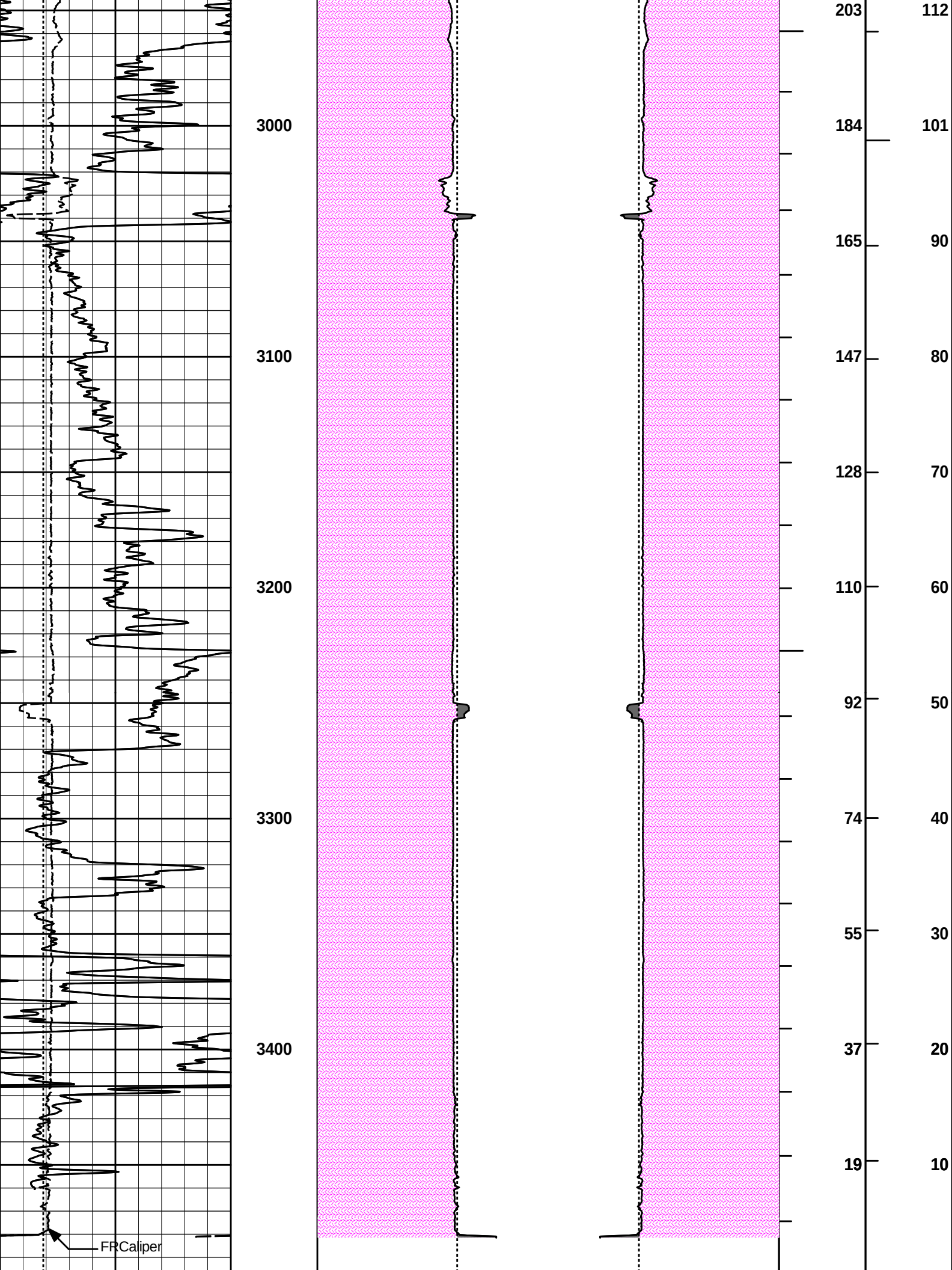
Mnemonic		Input Description	Delay (ft)	Filter Type	Filter Length (ft)
Depth Panel					
TENS		Tension	0.00	NO	
RWCH					
DHTN		DownholeTension	0.00	BLK	0.000
SP Sub					
PLTC		Plot Control Mask	50.56	NO	
SP		Spontaneous Potential	50.56	BLK	1.250
SPR		Raw Spontaneous Potential	50.56	NO	
SPO		Spontaneous Potential Offset	50.56	NO	
GTET					
TPUL		Tension Pull	42.54	NO	
GR		Natural Gamma Ray API	42.54	TRI	1.750
GRU		Unfiltered Natural Gamma Ray API	42.54	NO	
EGR		Natural Gamma Ray API with Enhanced Vertical Resolution	42.54	W	1.416 , 0.750
ACCZ		Accelerometer Z	0.00	BLK	0.083
DEVI		Inclination	0.00	NO	
DSNT					
TPUL		Tension Pull	32.30	NO	
RNDS		Near Detector Telemetry Counts	32.40	BLK	1.417
RFDS		Far Detector Telemetry Counts	33.15	TRI	0.583
DNTT		DSN Tool Temperature	32.40	NO	
DSNS		DSN Tool Status	32.30	NO	
ERND		Near Detector Telemetry Counts EVR	32.40	BLK	0.000
ERFD		Far Detector Telemetry Counts EVR	33.15	BLK	0.000
ENTM		DSN Tool Temperature EVR	32.40	NO	
SDLT					
TPUL		Tension Pull	22.40	NO	
PCAL		Pad Caliper	22.40	TRI	0.250
ACAL		Arm Caliper	22.40	TRI	0.250

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	
Microlog Pad				









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HALLIBURTON

Plot Time: 29-May-13 09:11:26

Plot Range: 1198 ft to 3504.17 ft

Data: BARNETT_1-18\Well Based\DAQ-0001-003

Plot File: \\-LOCAL-\\BARNETT_1-18\\0001 SP-GTET-DSN-SDL-ACRT-BN\\PORO\\AHV_2 IQ_LIB

ANNULAR HOLE VOLUME PLOT

COMPANY	VAL ENERGY INC.		
WELL	BARNETT1-18		
FIELD	WINFIELD		
COUNTY	COWLEY	STATE	KANSAS
HALLIBURTON		DUAL SPACED NEUTRON SPECTRAL DENSITY LOG	