

COMPANY		SANDRIDGE ENERGY	
WELL		WRIGLEY 1-11 SWD	
FIELD		WILDCAT	
COUNTY		HARPER	
STATE		KANSAS	
Permanent Datum Log measured from Drilling measured from	GL KB KB	Sect. 11 Twp. 35S Rge. 8W	Elev. 1271.0 ft D.F. G.L.
	16.0 ft above perm. Datum 1271.0 ft		
Date	01-Jun-12		
Run No.	ONE		
Depth - Driller	5655.00 ft		
Depth - Logger	5638.0 ft		
Bottom - Logged Interval	5555.0 ft		
Top - Logged Interval	3000.0 ft		
Casing - Driller	9.625 in @ 790.0 ft		
Casing - Logger	784.0 ft		
Bit Size	8.750 in		
Type Fluid in Hole	WATER BASED MUD		
Density	9.1 ppq	55.00	s/qt
PH	9.00 pH	8.0	cp/m
Source of Sample	FLOW LINE		
Rm @ Meas. Temperature	0.140 ohmm @ 75.00 degF		
Rmf @ Meas. Temperature	0.12 ohmm @ 75.00 degF		
Rmc @ Meas. Temperature	0.180 ohmm @ 75.00 degF		
Source Rmf	MEAS Rmc		
Rm @ BHT	0.08 ohmm @ 137.0 degF		
Time Since Circulation	8.0 hr		
Time on Bottom	01-Jun-12 04:48		
Max. Rec. Temperature	137.0 degF @ 5638.0 ft		
Equipment	10546696 LIBERAL		
Recorded By	J. BOLLOM		
Witnessed By	J. DURDEN		

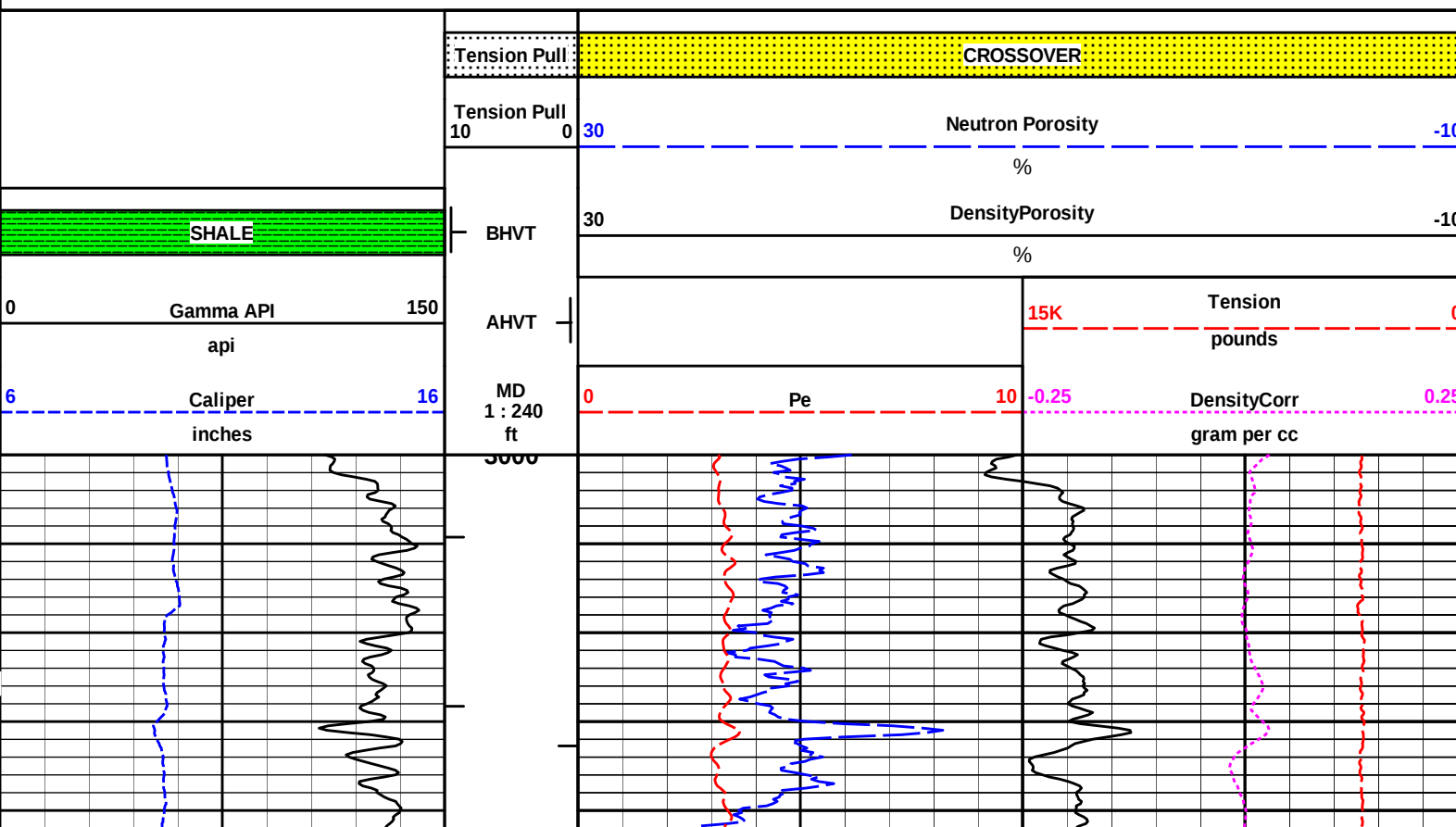
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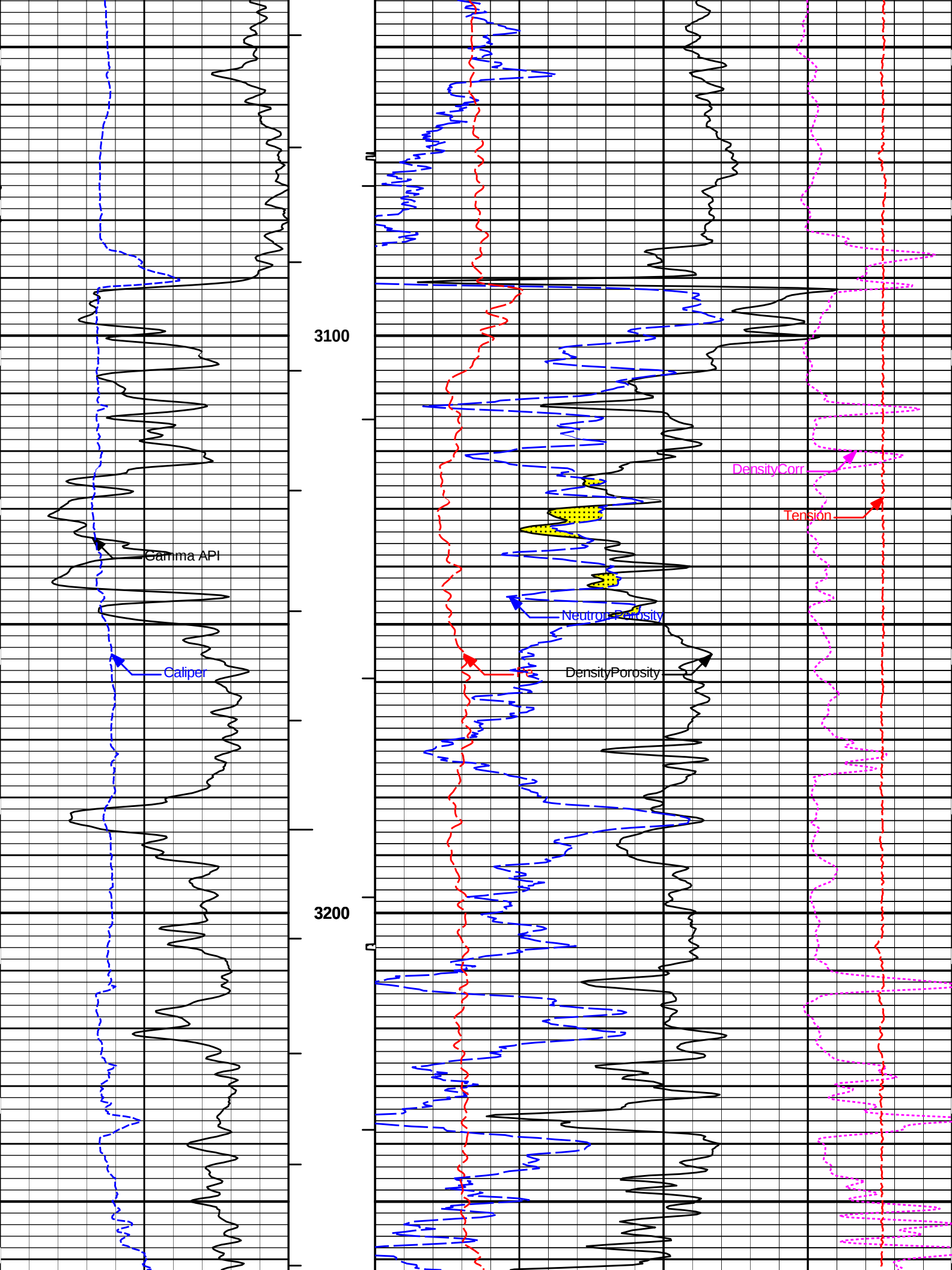
Service Ticket No.: 9560355				API Serial No.: 15-077-21849				PGM Version: WL INSITE R3.4.2 (Build 2)											
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE						RESISTIVITY SCALE CHANGES													
Date		Sample No.				Type Log		Depth		Scale Up Hole		Scale Down Hole							
Depth-Driller																			
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					
Serial No.		11048627		Serial No.				Serial No.		M489_P81		Serial No.		11019643					
Model No.		GTET		Model No.				Model No.		SDLT-I		Model No.		DSNT-I					
Diameter		3.625"		No. of Cent.				Diameter		4.5"		Diameter		3.625"					
Detector Model No.		GTET		Spacing				Log Type		GAM-GAM		Log Type		NEU-NEU					
Type		SCINT						Source Type		CS137		Source Type		AM241BE					
Length		8'		LSA [Y/N]				Serial No.		5168GW		Serial No.		DSN-424					
Distance to Source		10'		FWDA [Y/N]				Strength		1.5 CI		Strength		15 CI					
LOGGING DATA																			
GENERAL				GAMMA				ACOUSTIC				DENSITY				NEUTRON			

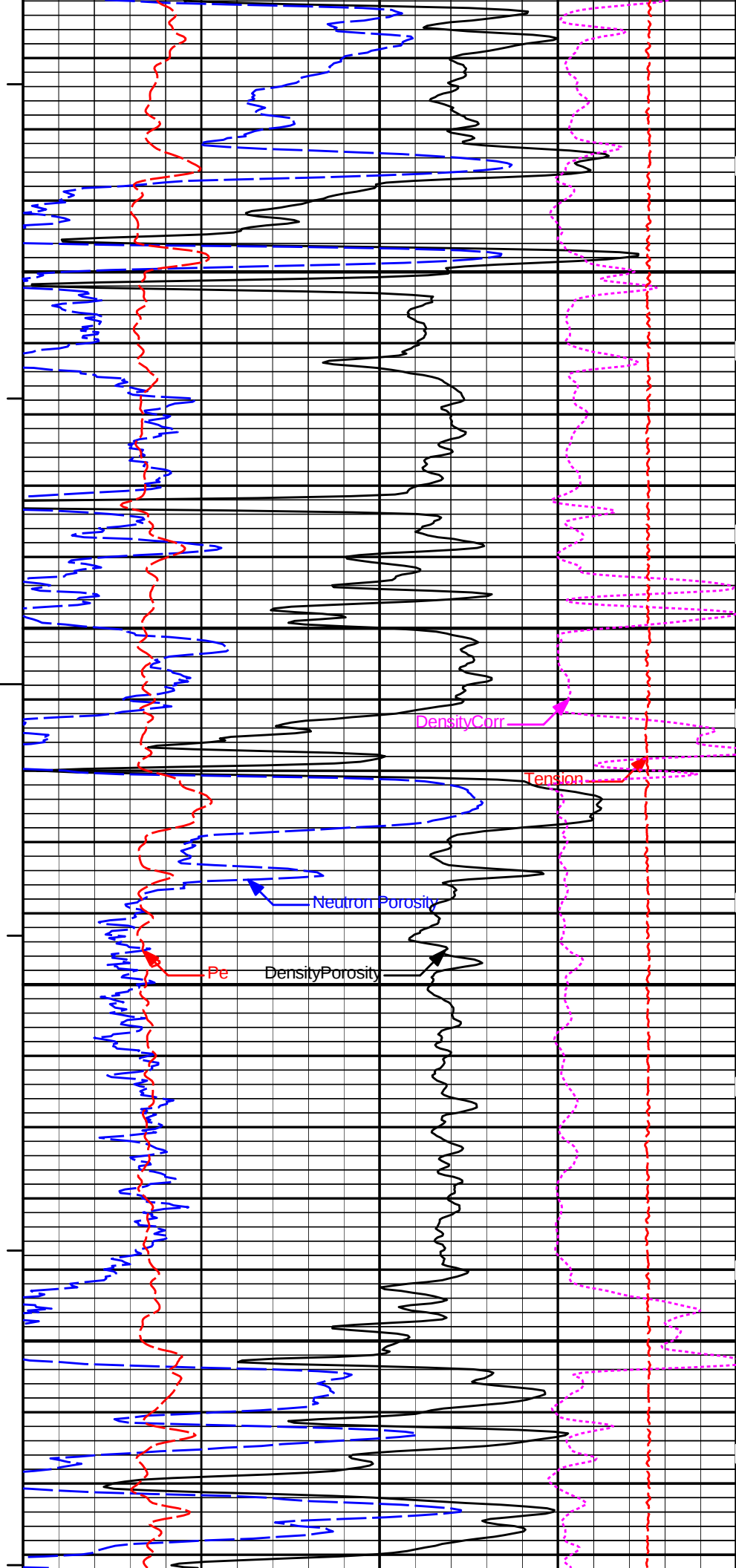
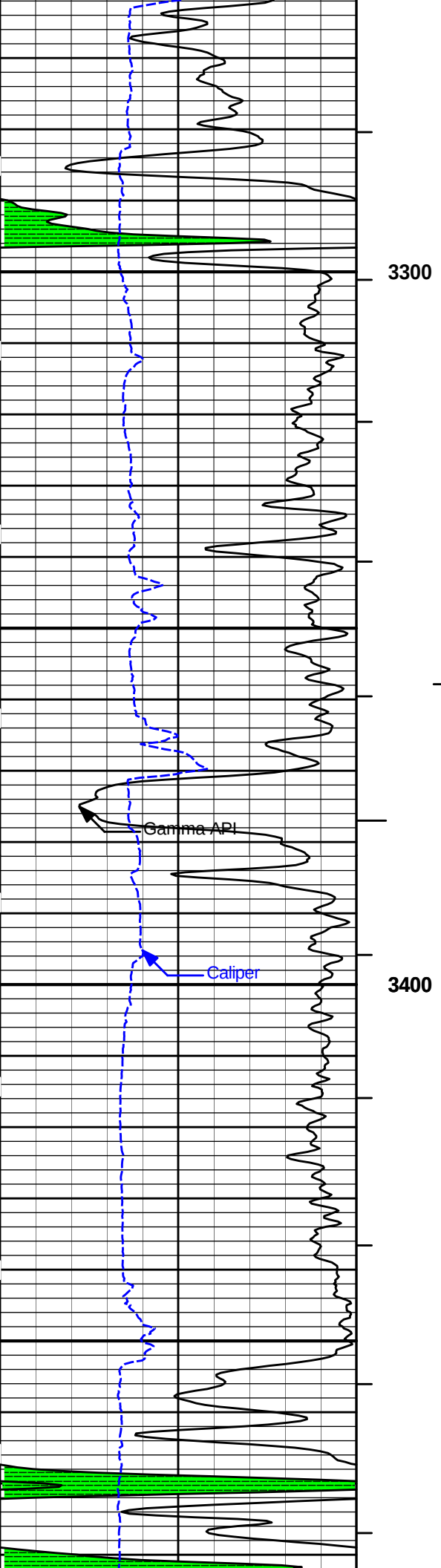
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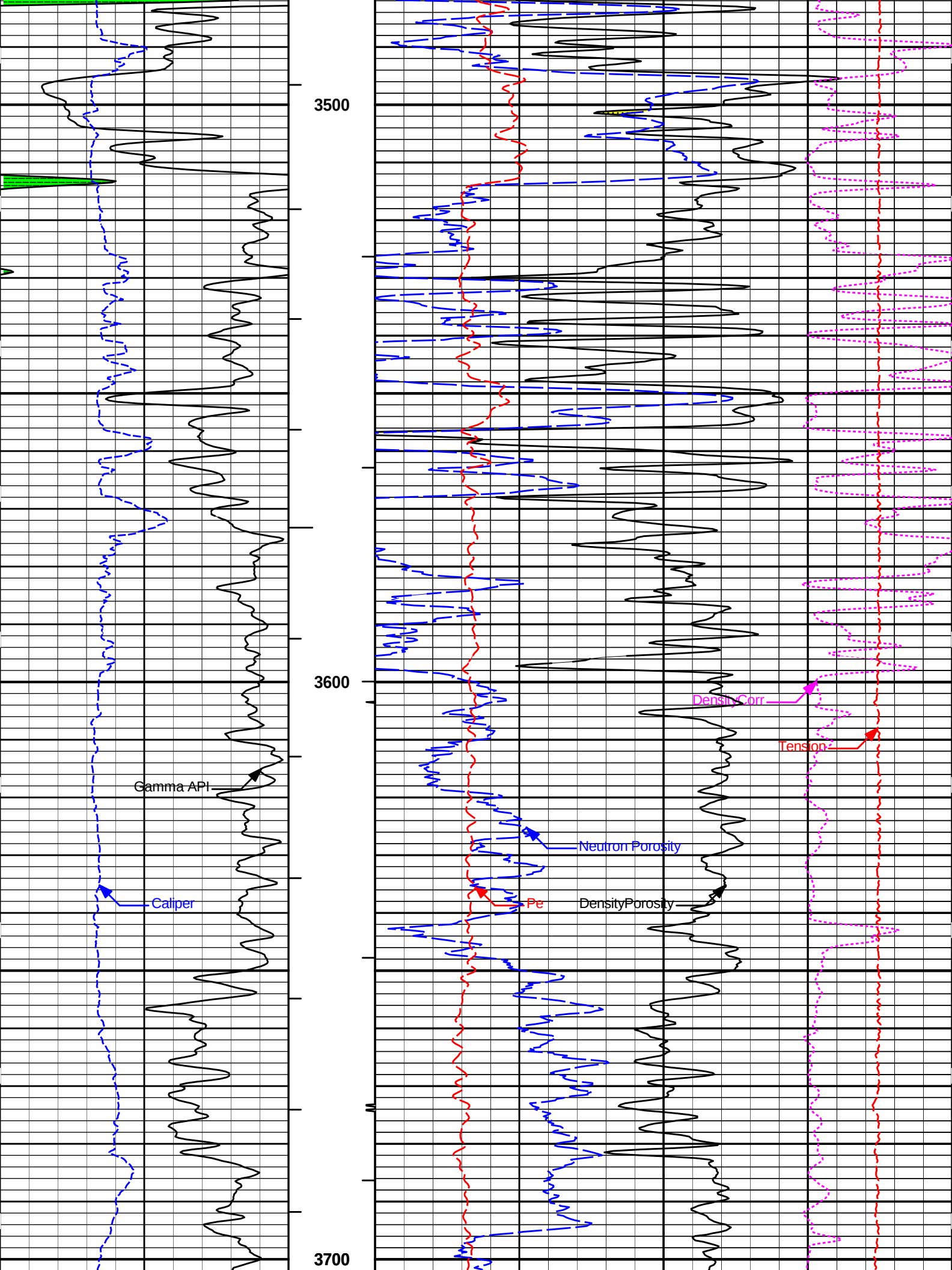
HALLIBURTON

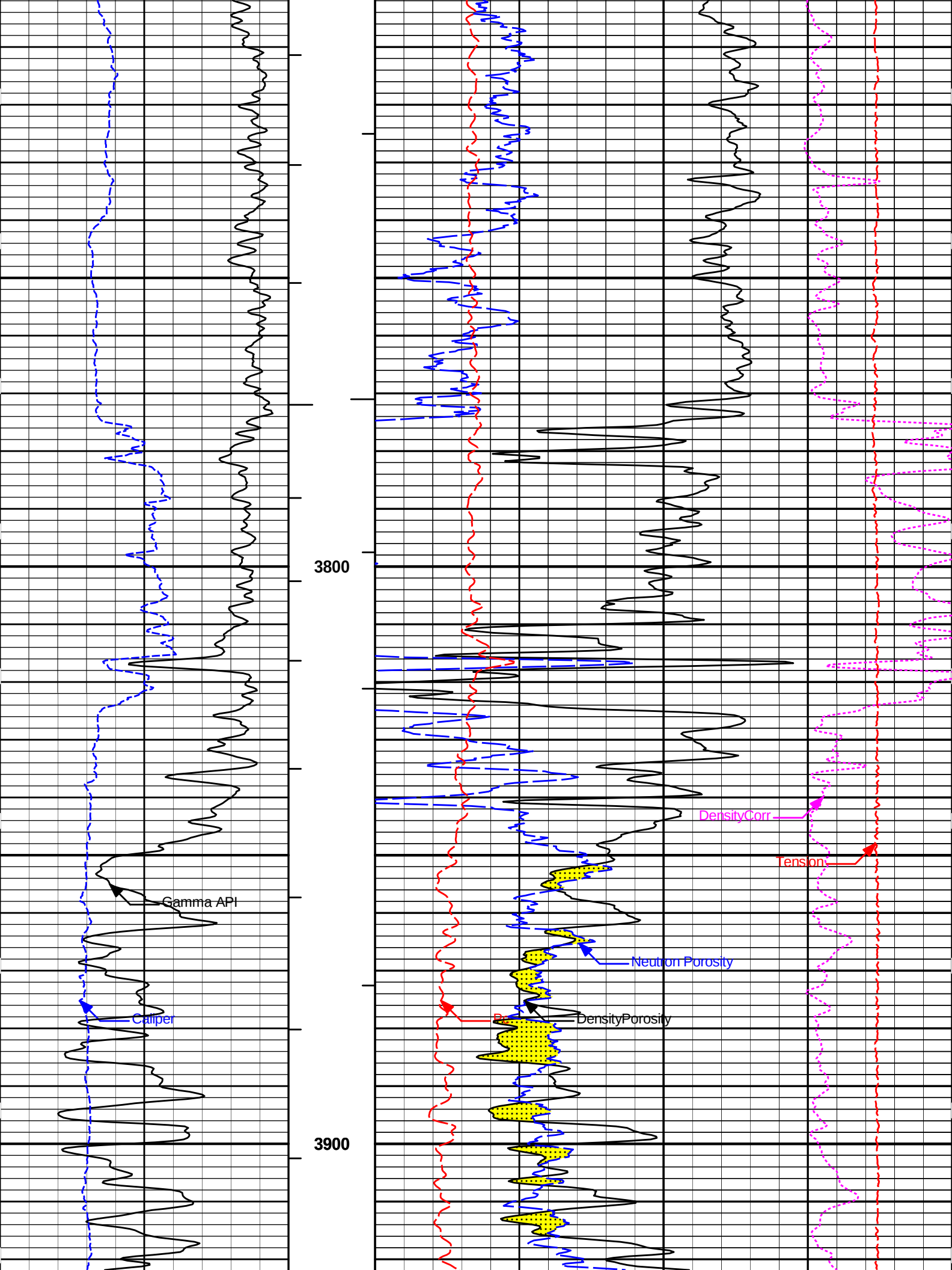
5 INCH MAIN LOG

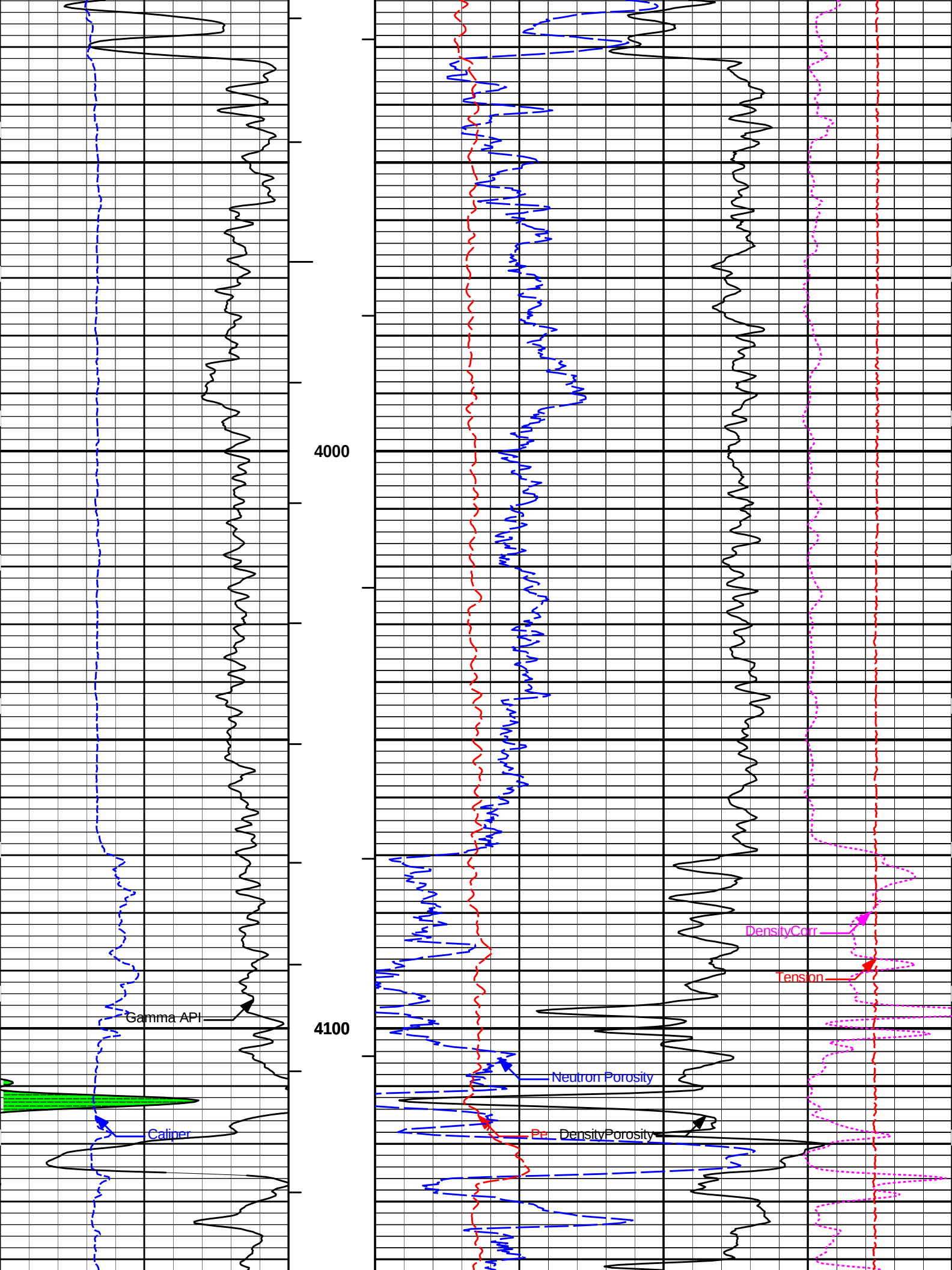


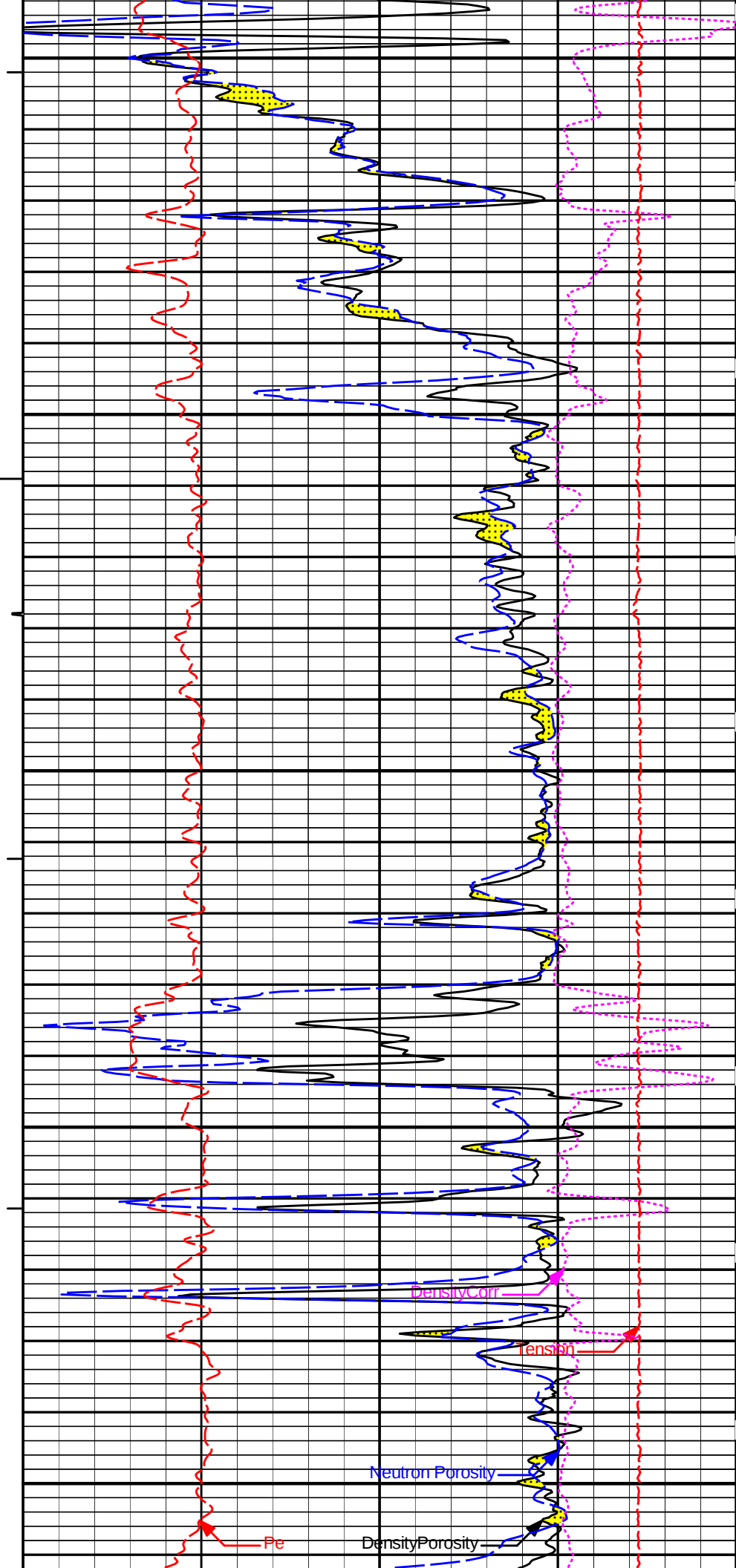
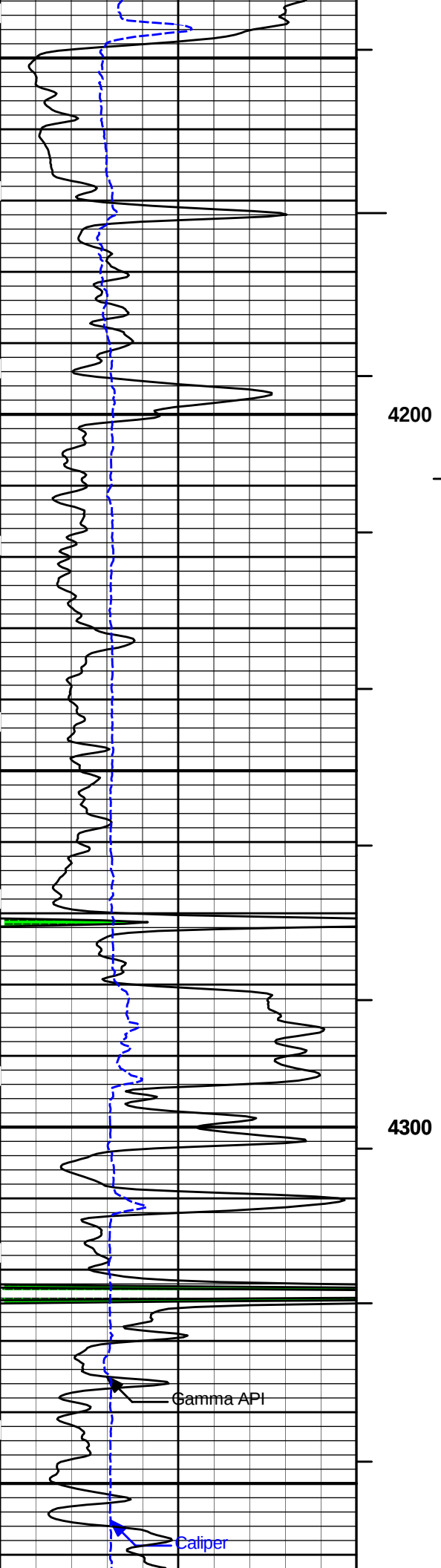


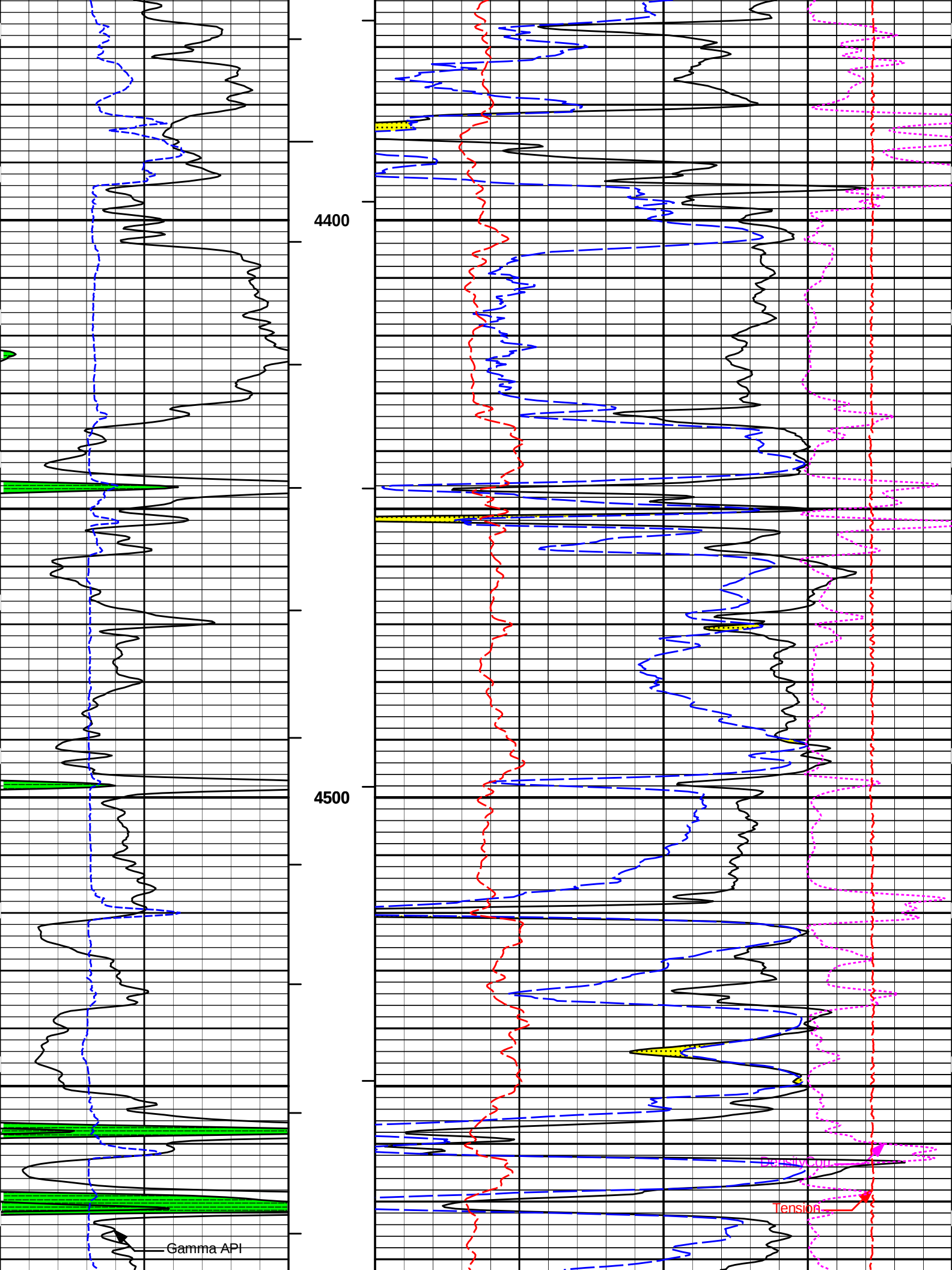


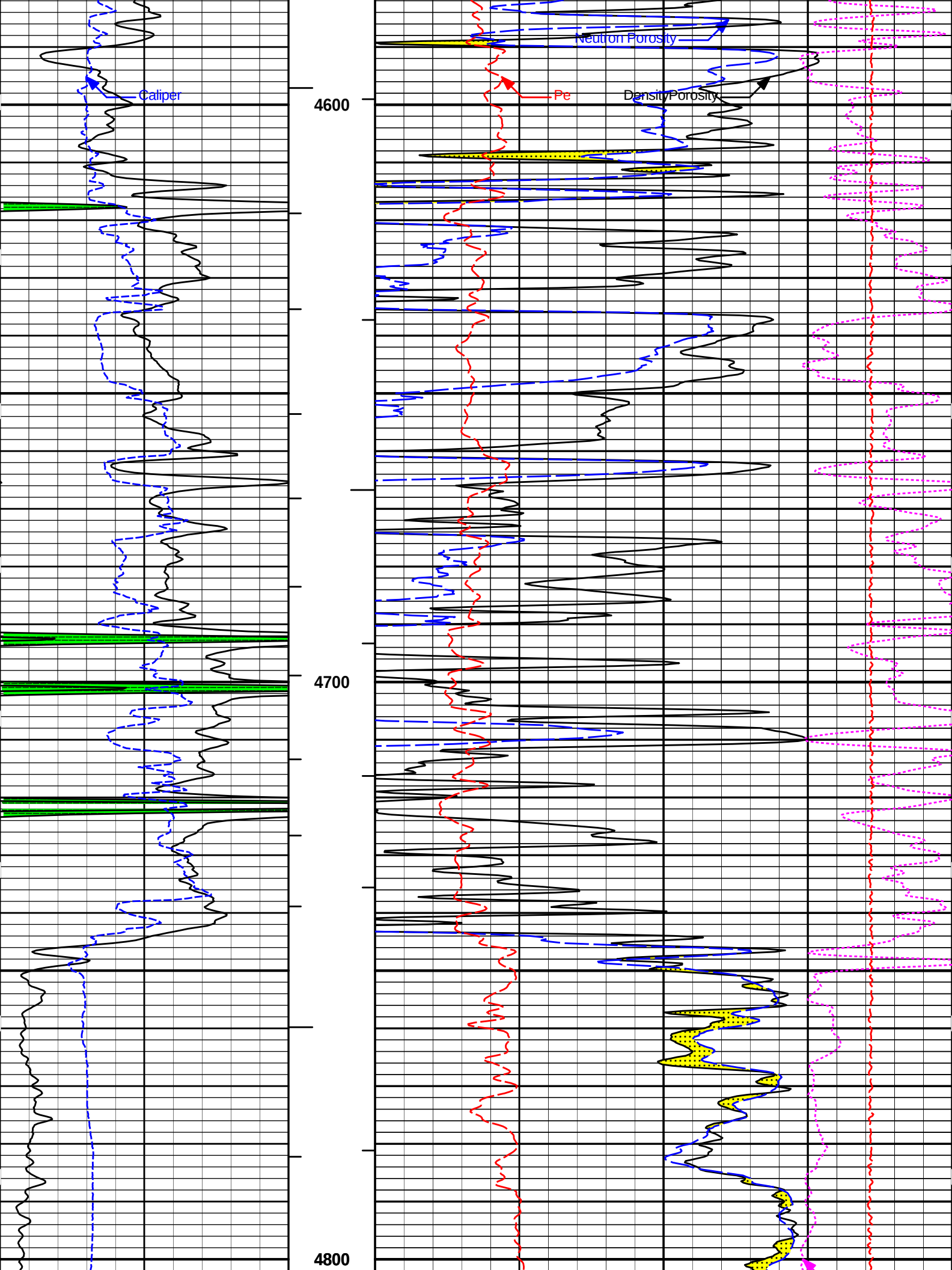


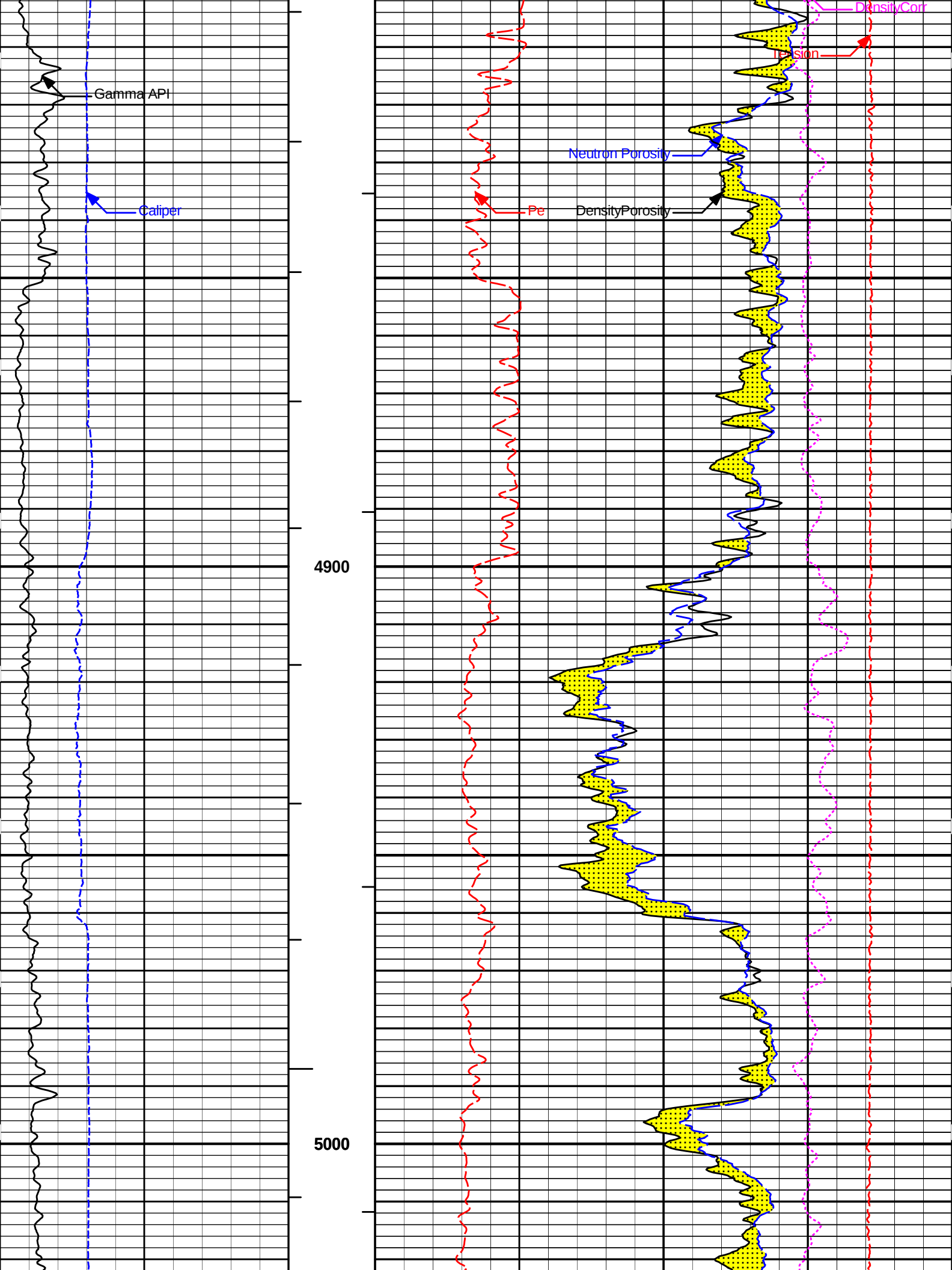


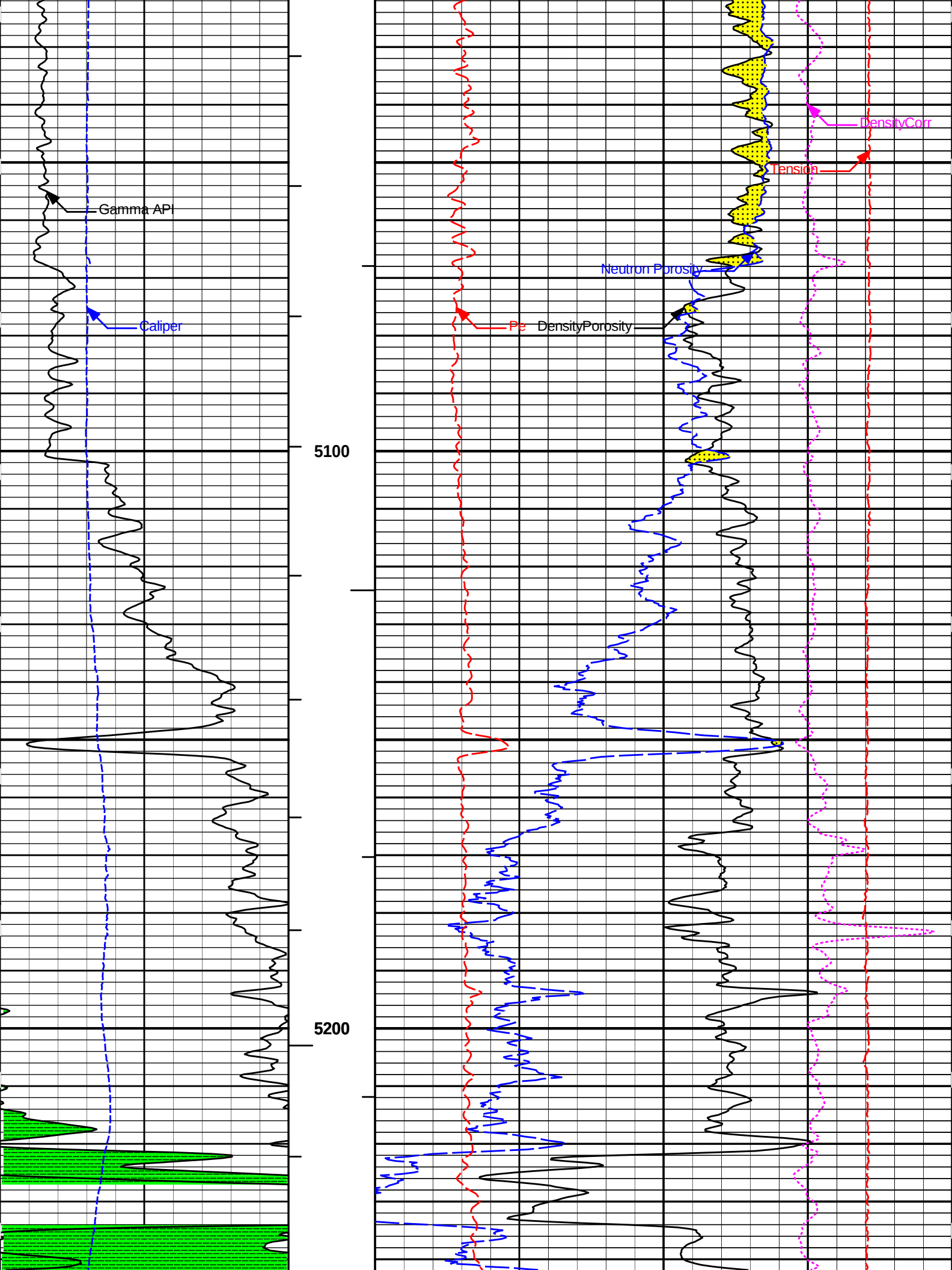


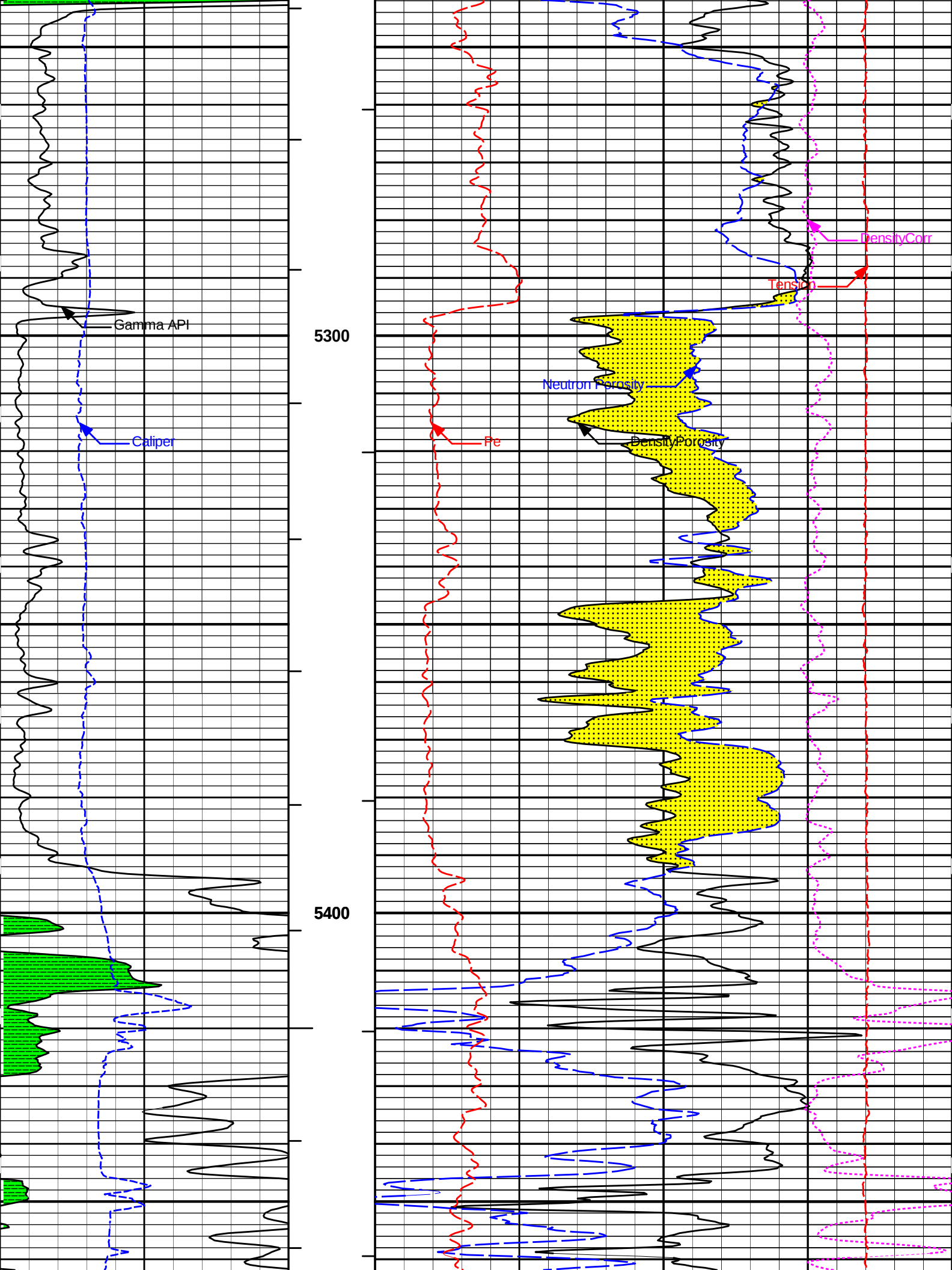


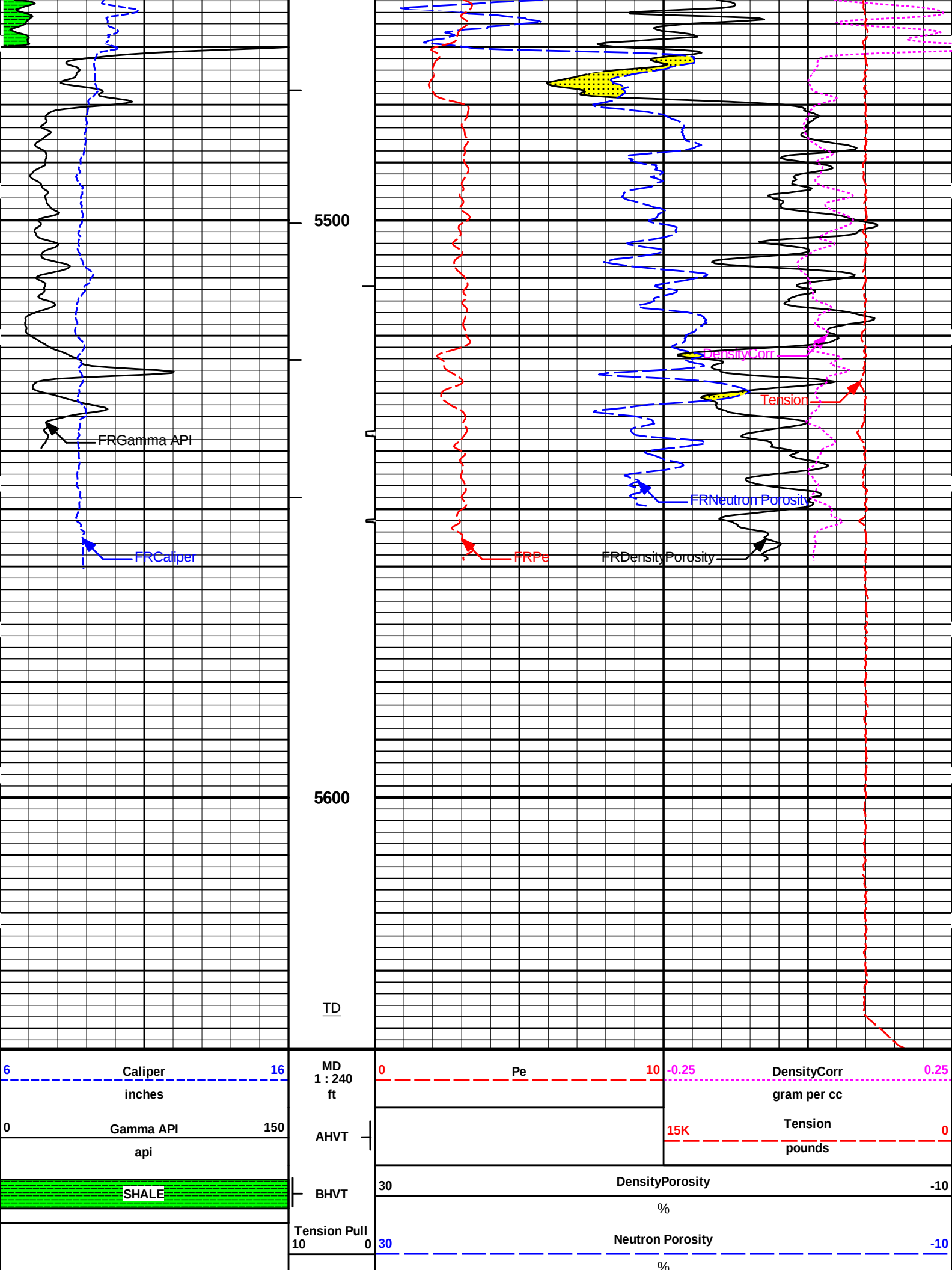












Tension Pull

CROSSOVER

HALLIBURTON

Plot Time: 01-Jun-12 12:12:51
Plot Range: 3000 ft to 5643.42 ft
Data: WRIGLEY_1_11_SWIWell Based\DETAIL\
Plot File: \\PORO\Poros_IQ_5_MAIN_LIB

5 INCH MAIN LOG

HALLIBURTON

Plot Time: 01-Jun-12 12:12:52
Plot Range: 5300 ft to 5643.5 ft
Data: WRIGLEY_1_11_SWIWell Based\REPEAT\
Plot File: \\PORO\Poros_IQ_5_REP_LIB

REPEAT SECTION

CROSSOVER

30

Neutron Porosity

-10

%

30

Density Porosity

-10

%

SHALE

BHVT

Gamma API

150

api

AHVT

Caliper

16

inches

MD
1 : 240
ft

0

Pe

10

-0.25

Density Corr

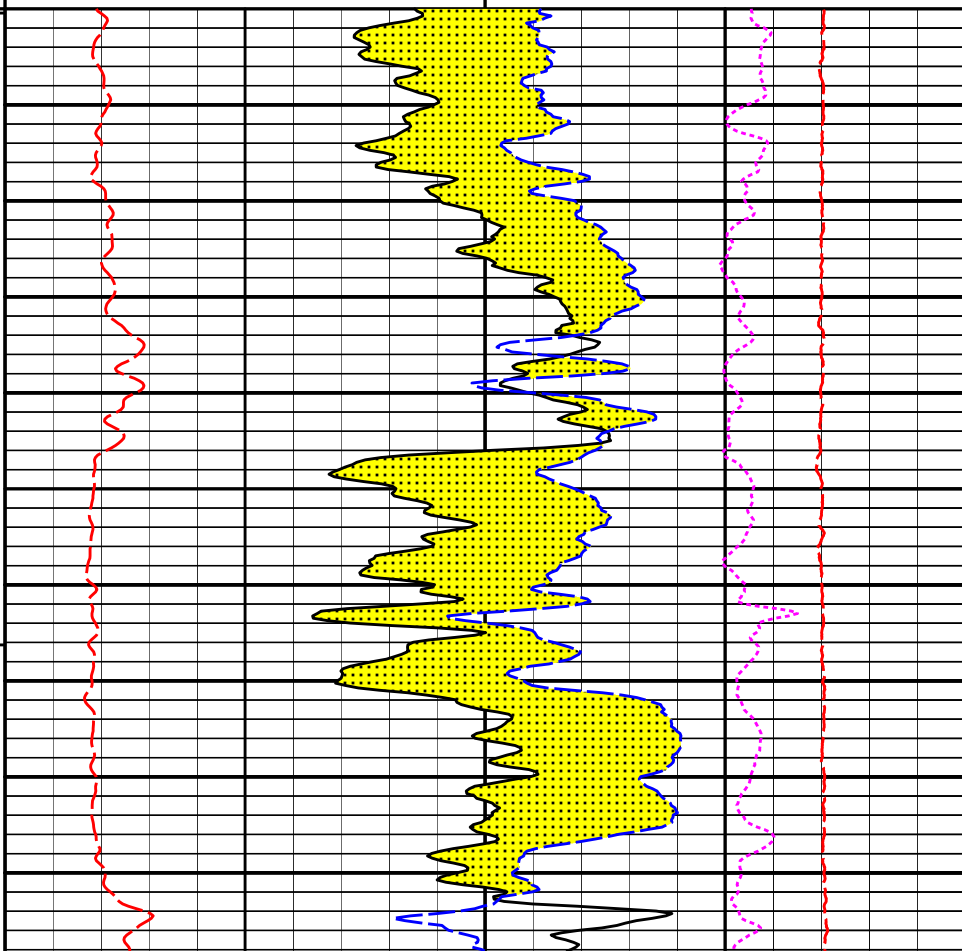
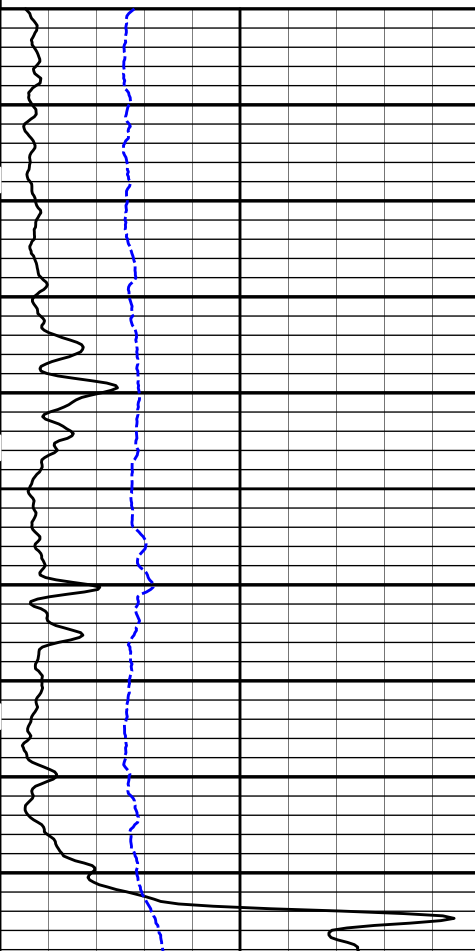
0.25

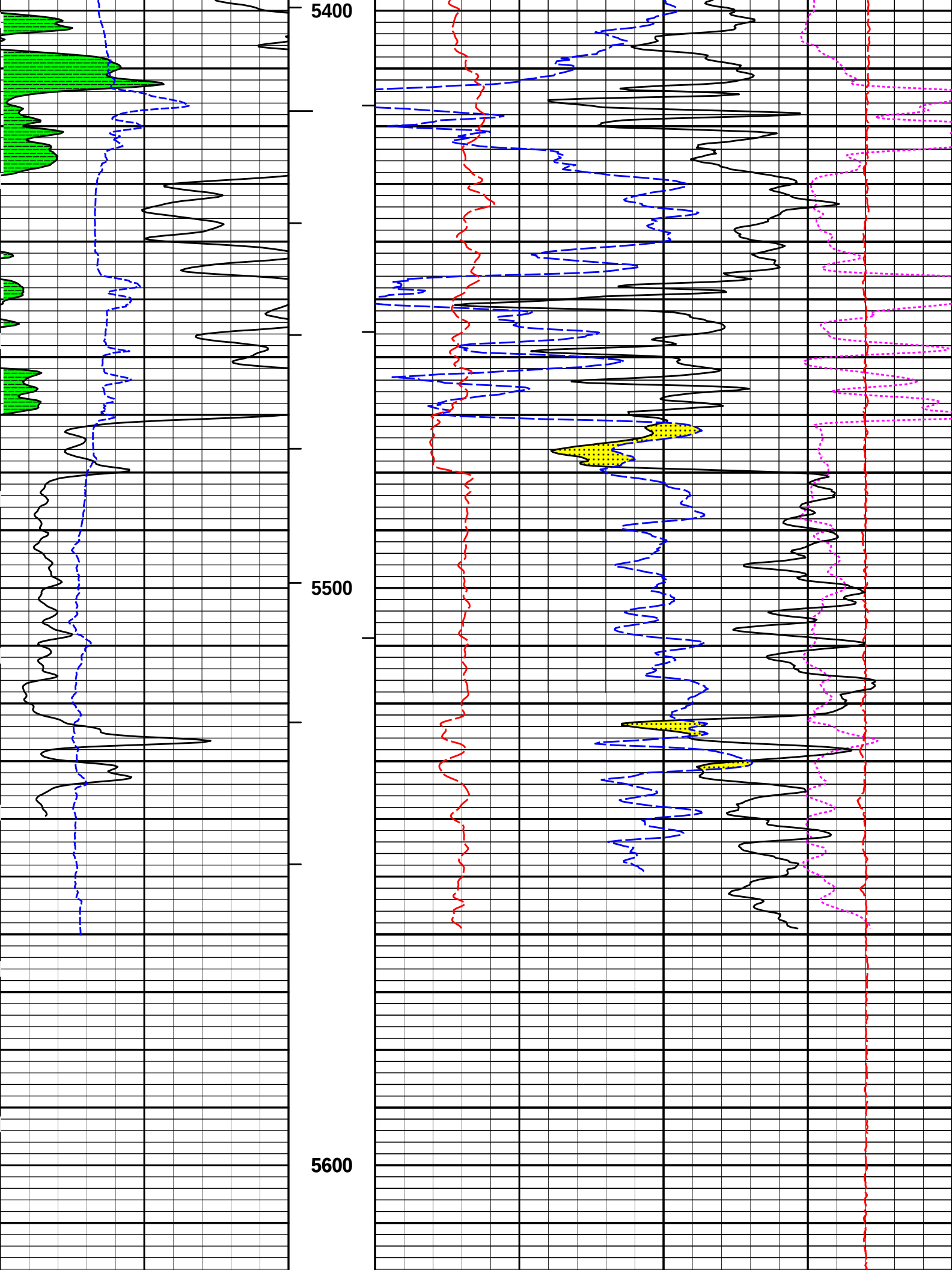
gram per cc

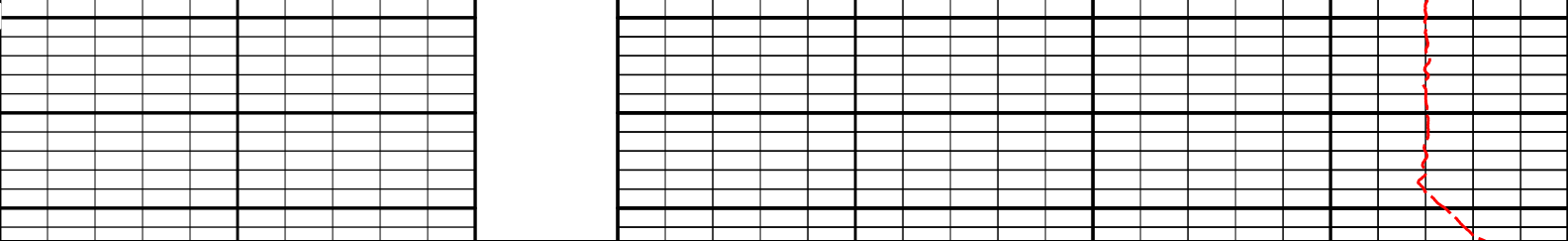
Tension

pounds

0







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

HALLIBURTON

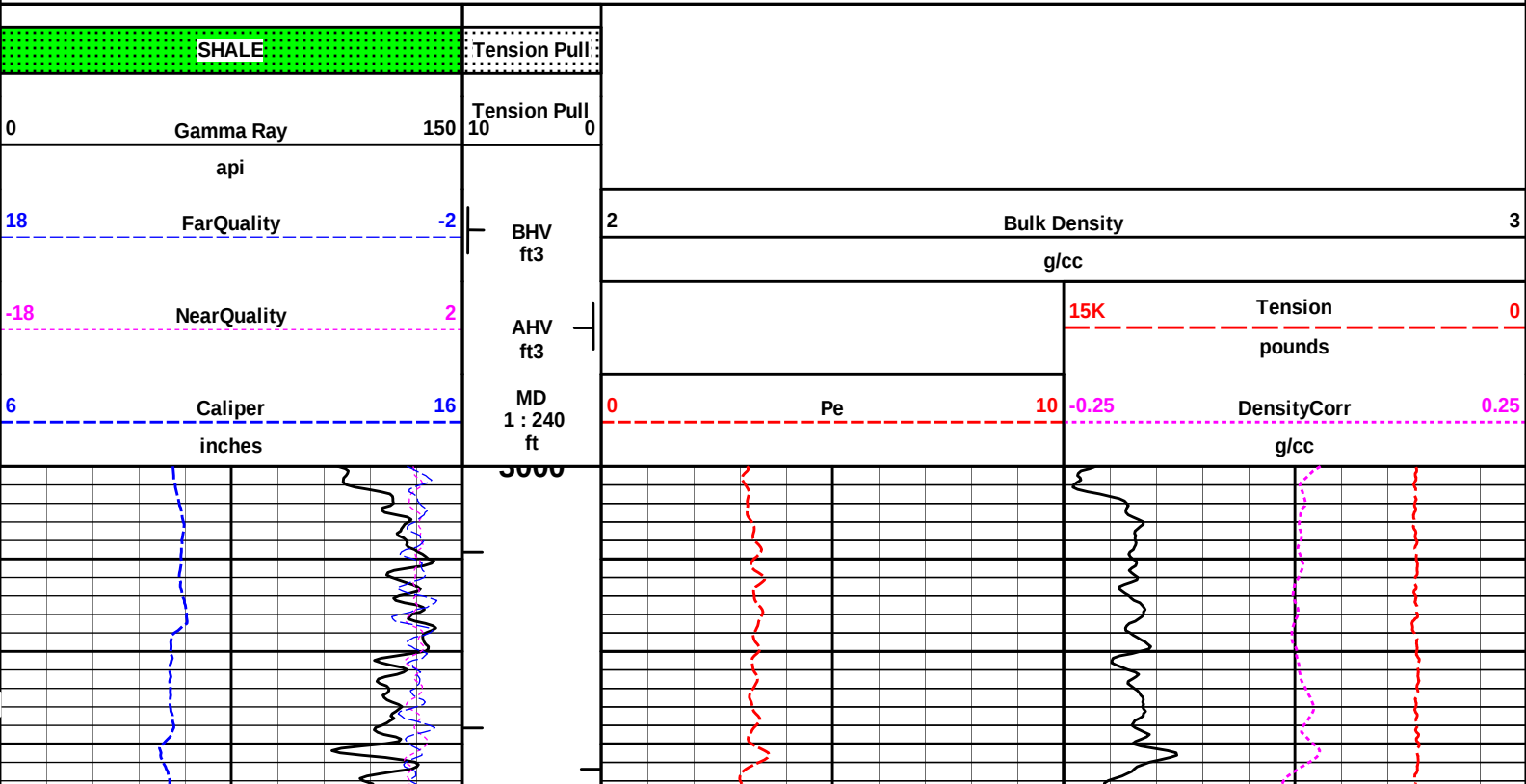
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Data: WRIGLEY_1_11_SW\Well Based\REPEAT\
Plot File: \\PORO\Porosity_Q_5_REP_LIB

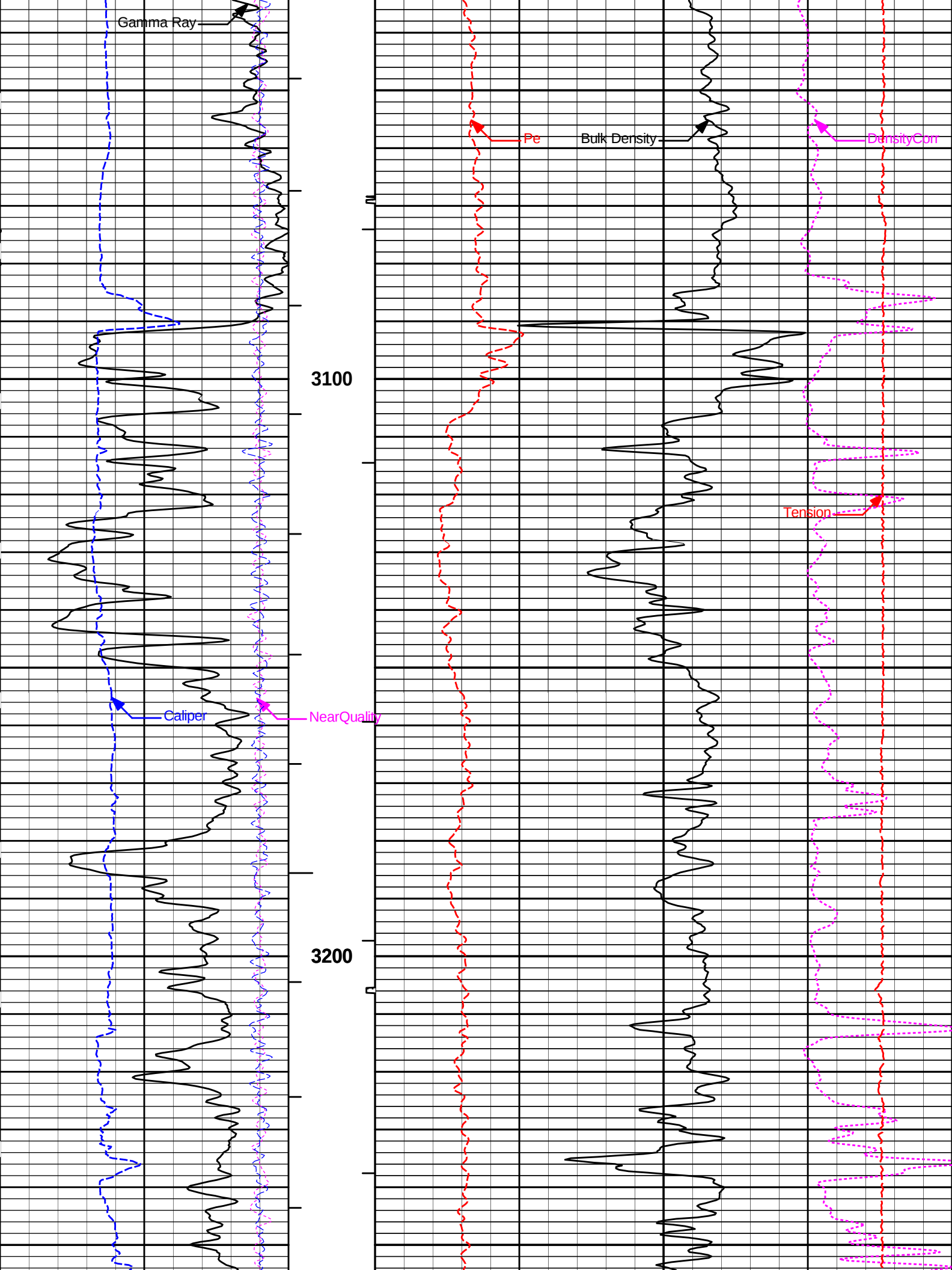
REPEAT SECTION

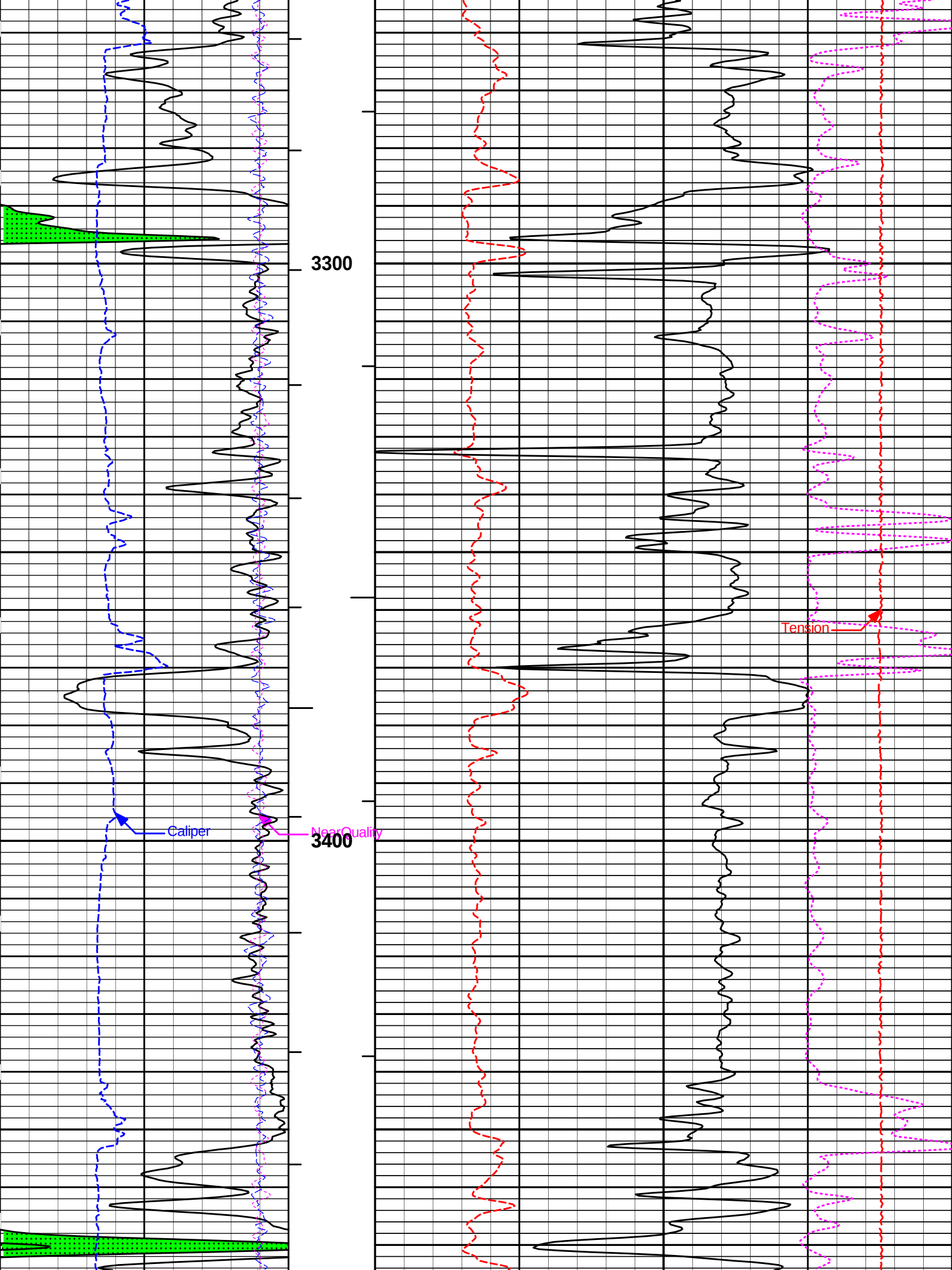
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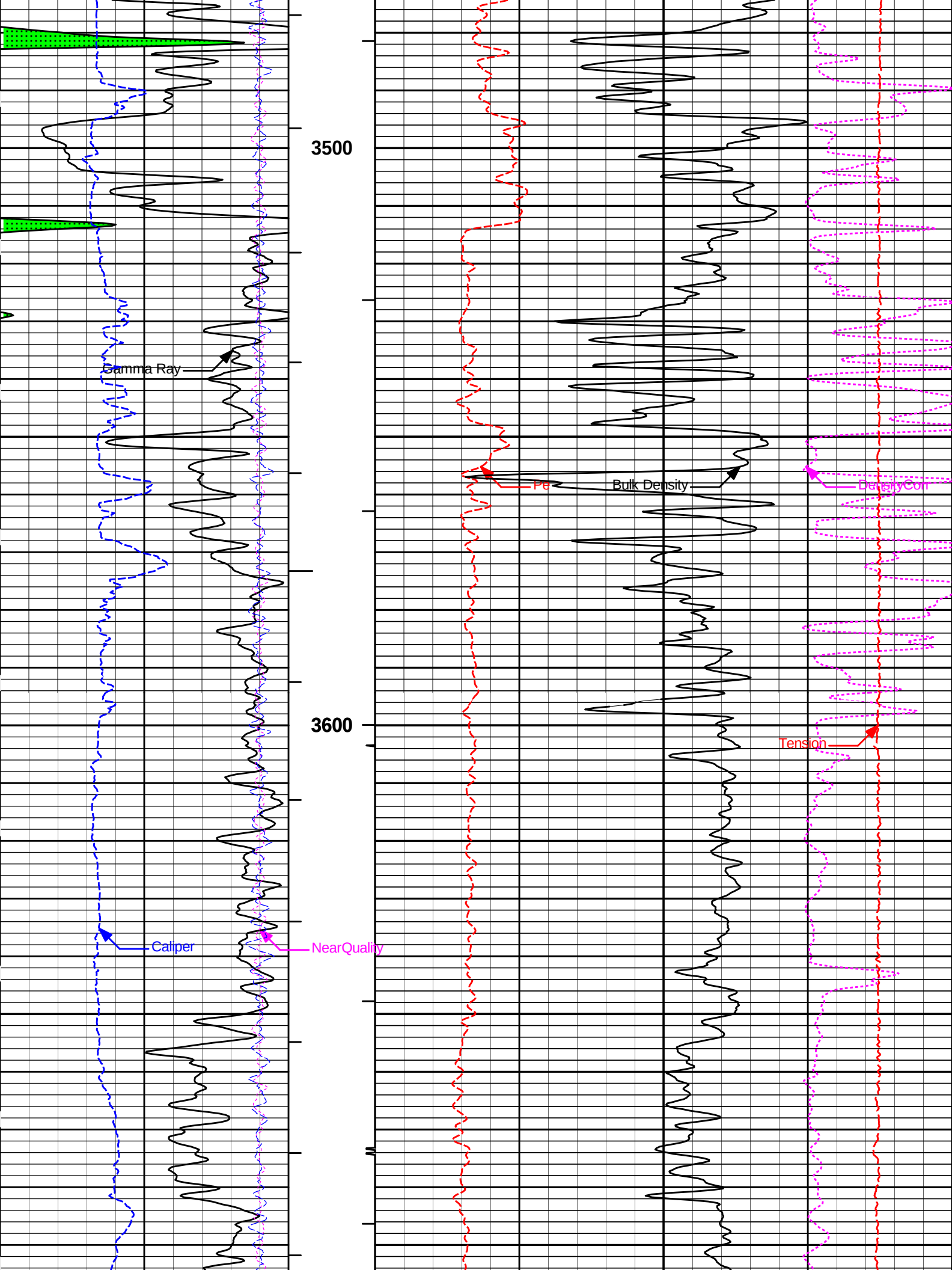
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Data: WRIGLEY_1_11_SW\Well Based\DETAIL\
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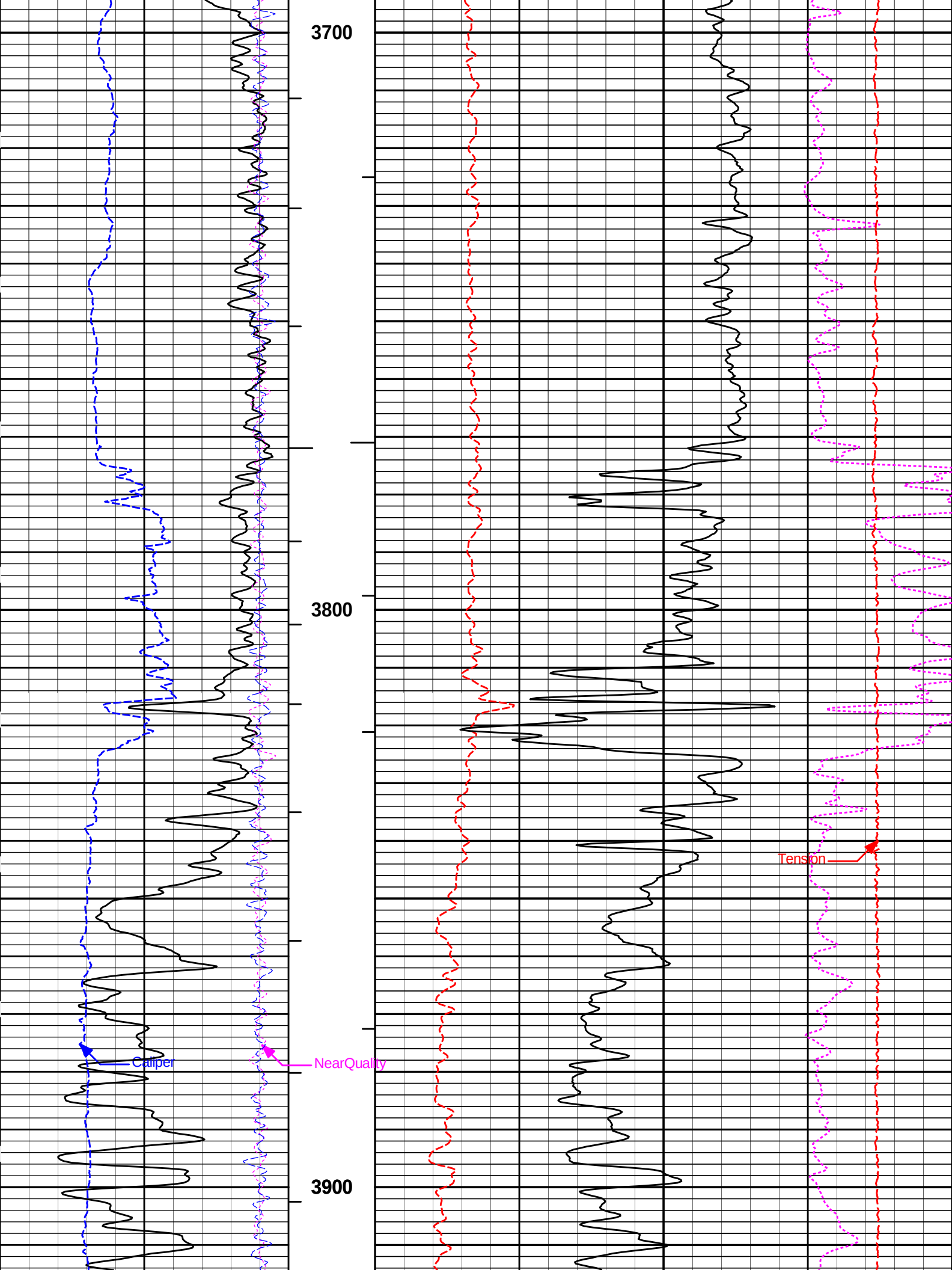
5 INCH MAIN LOG

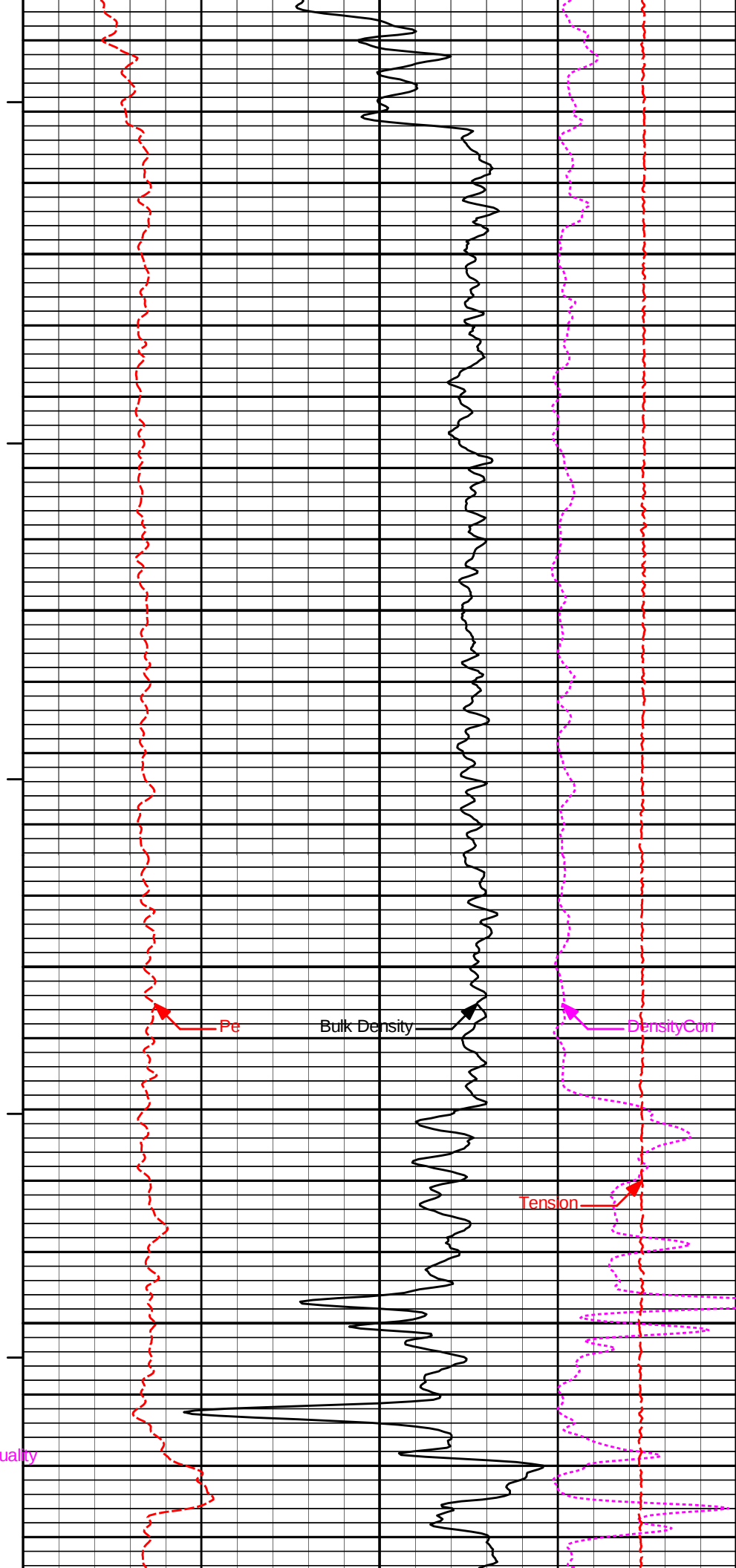
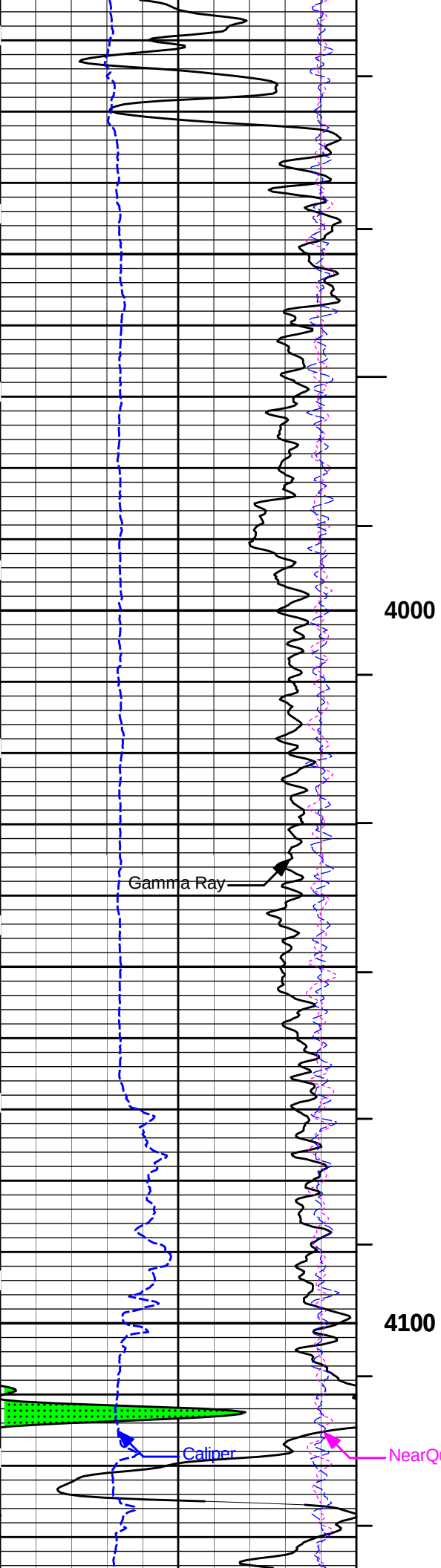


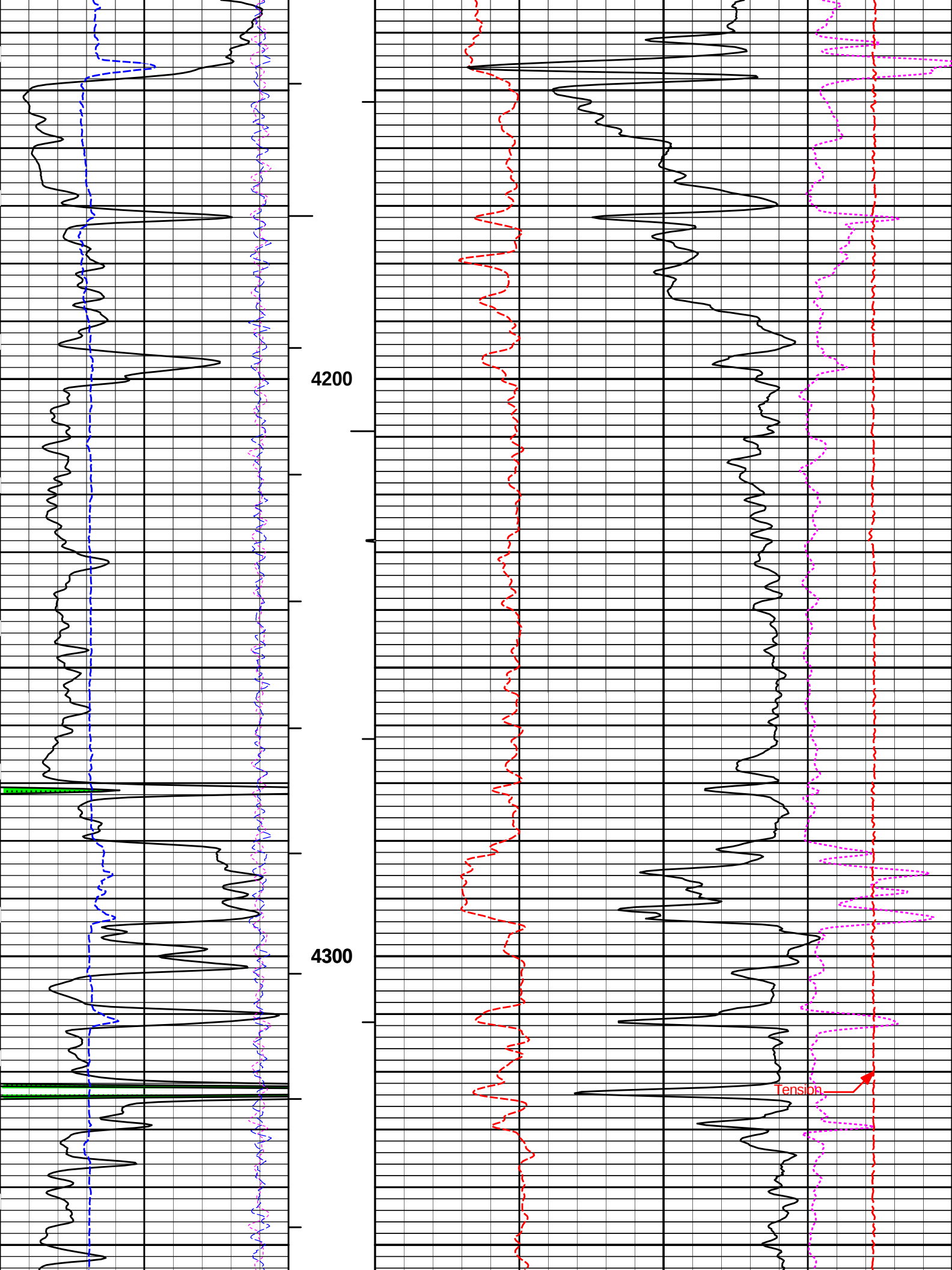


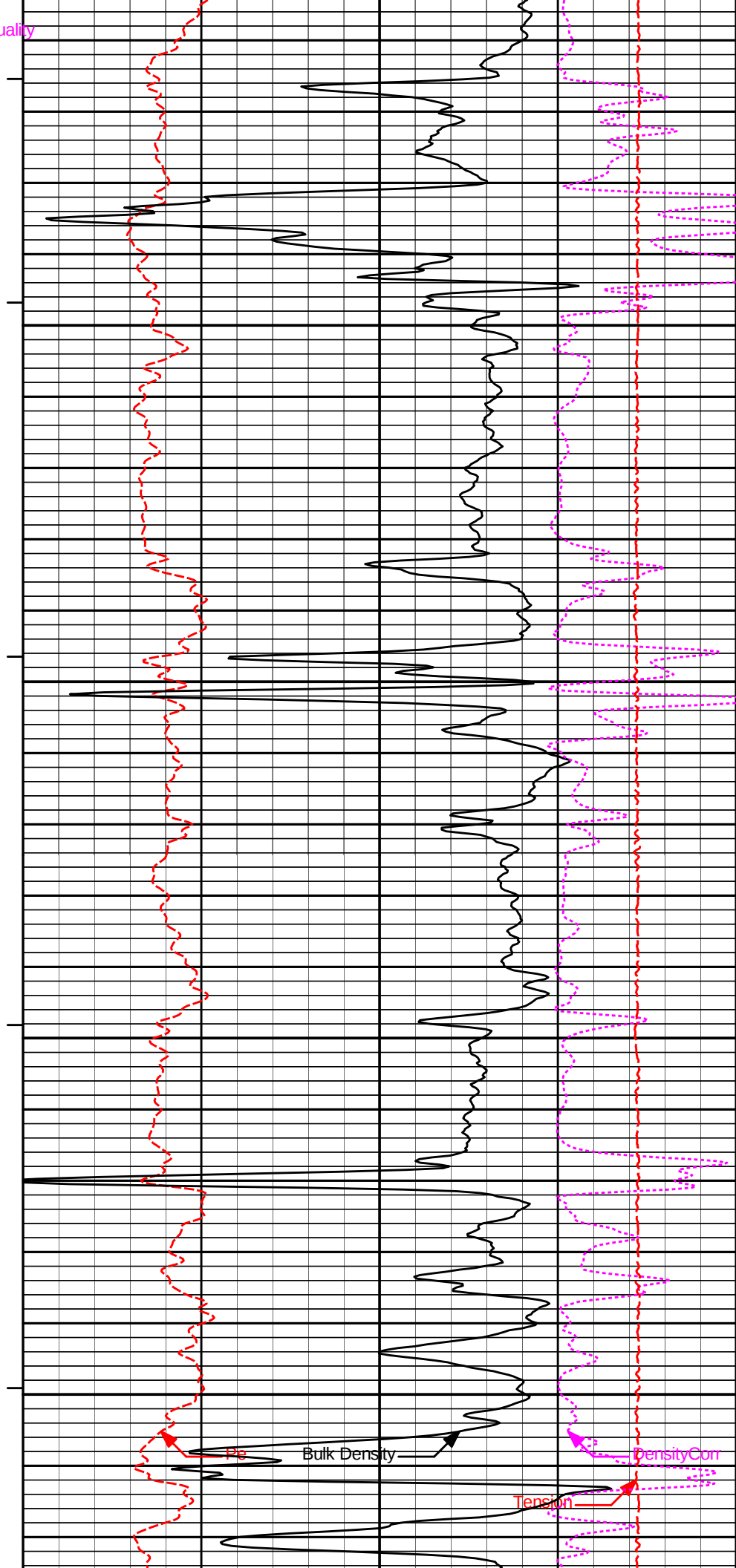
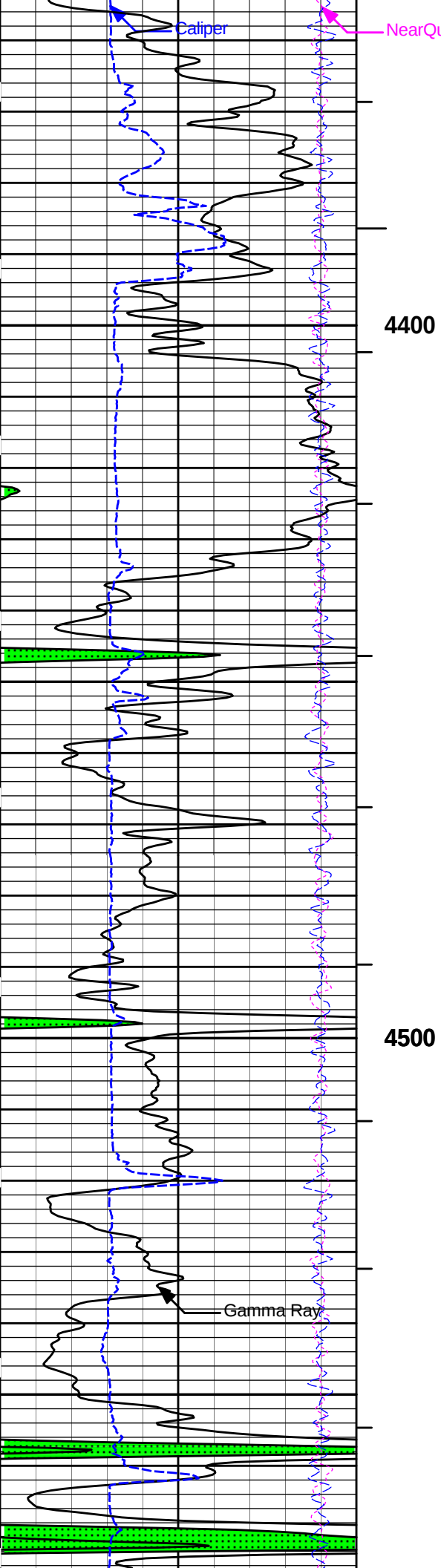


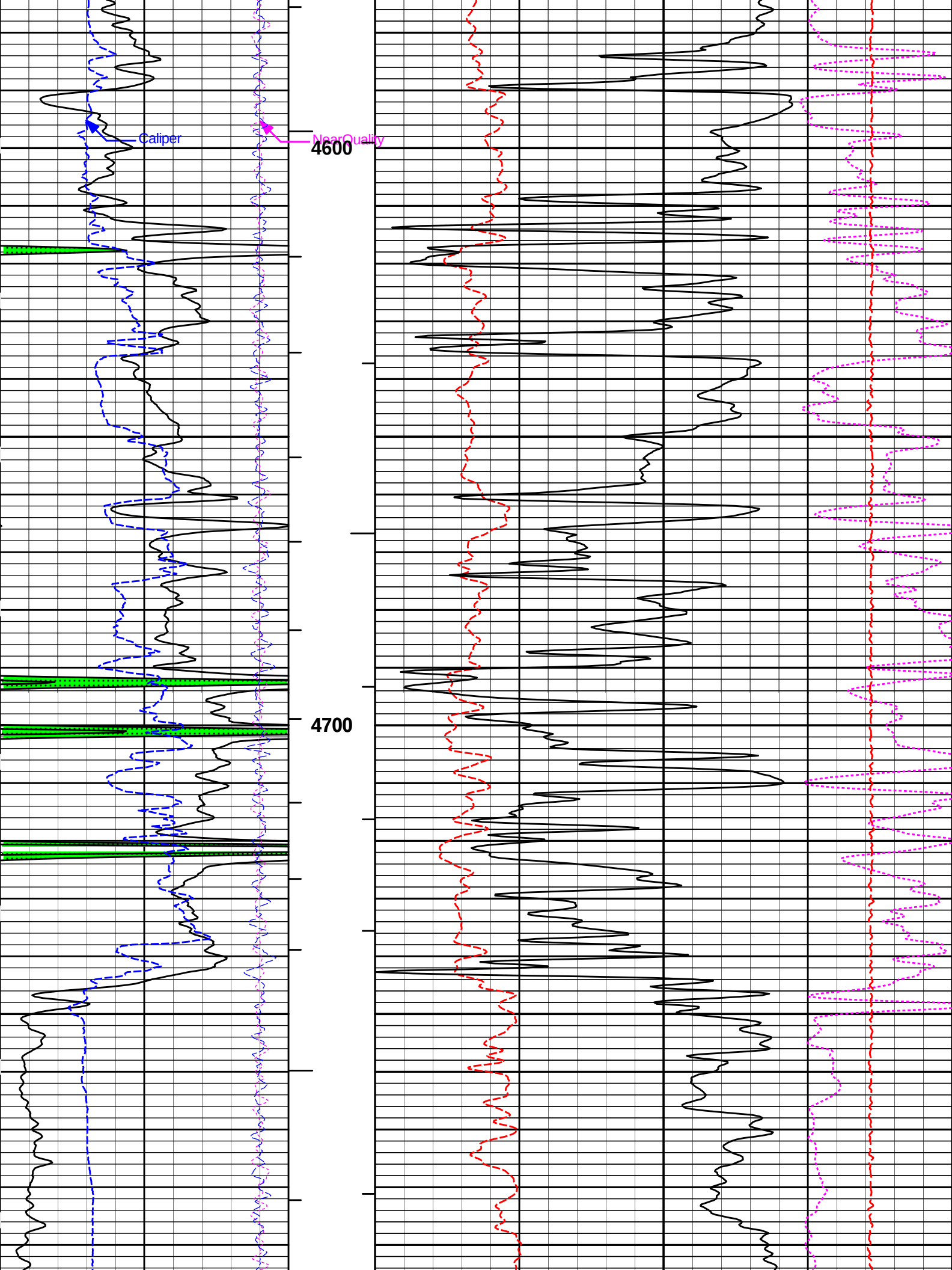


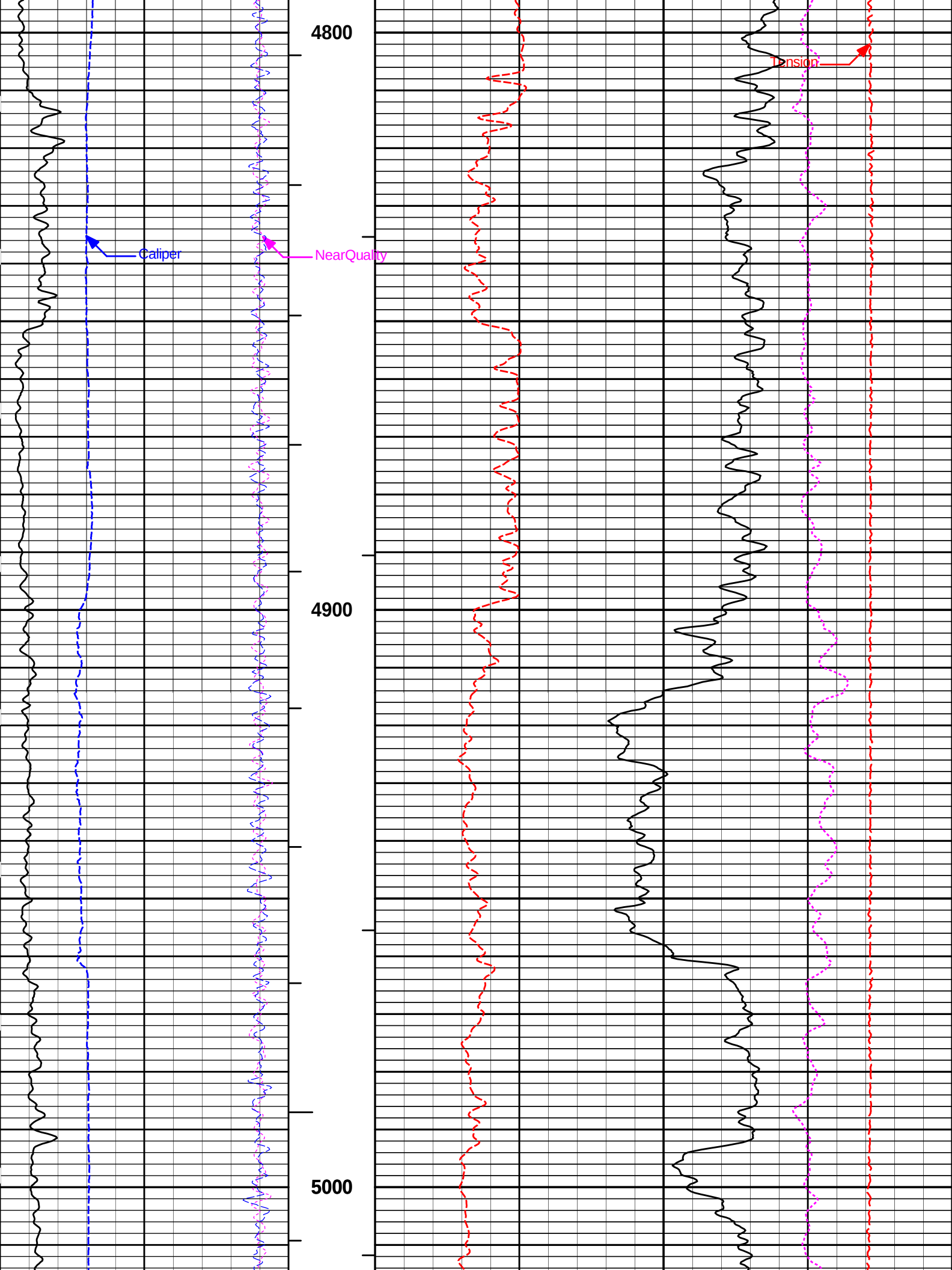


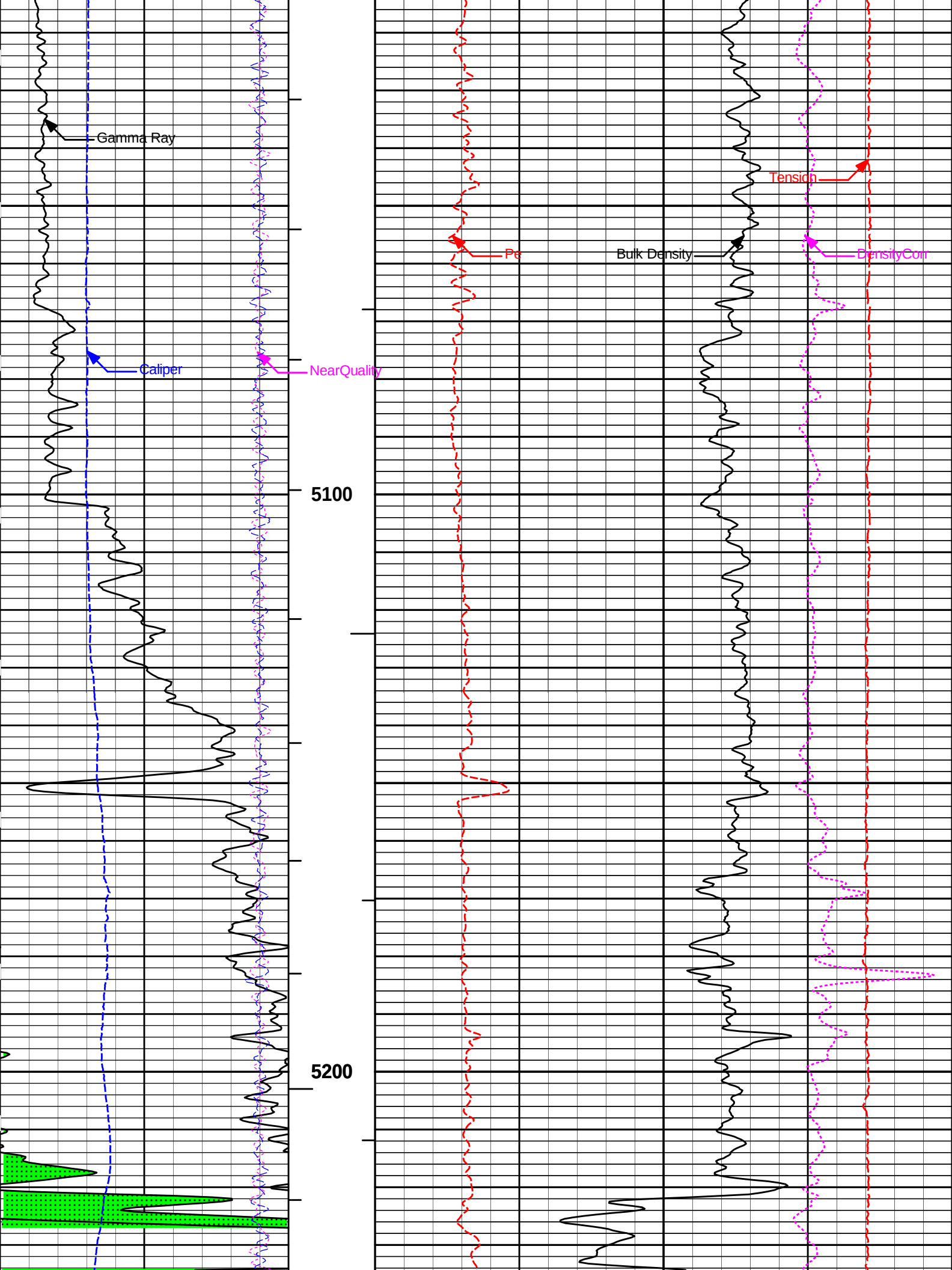


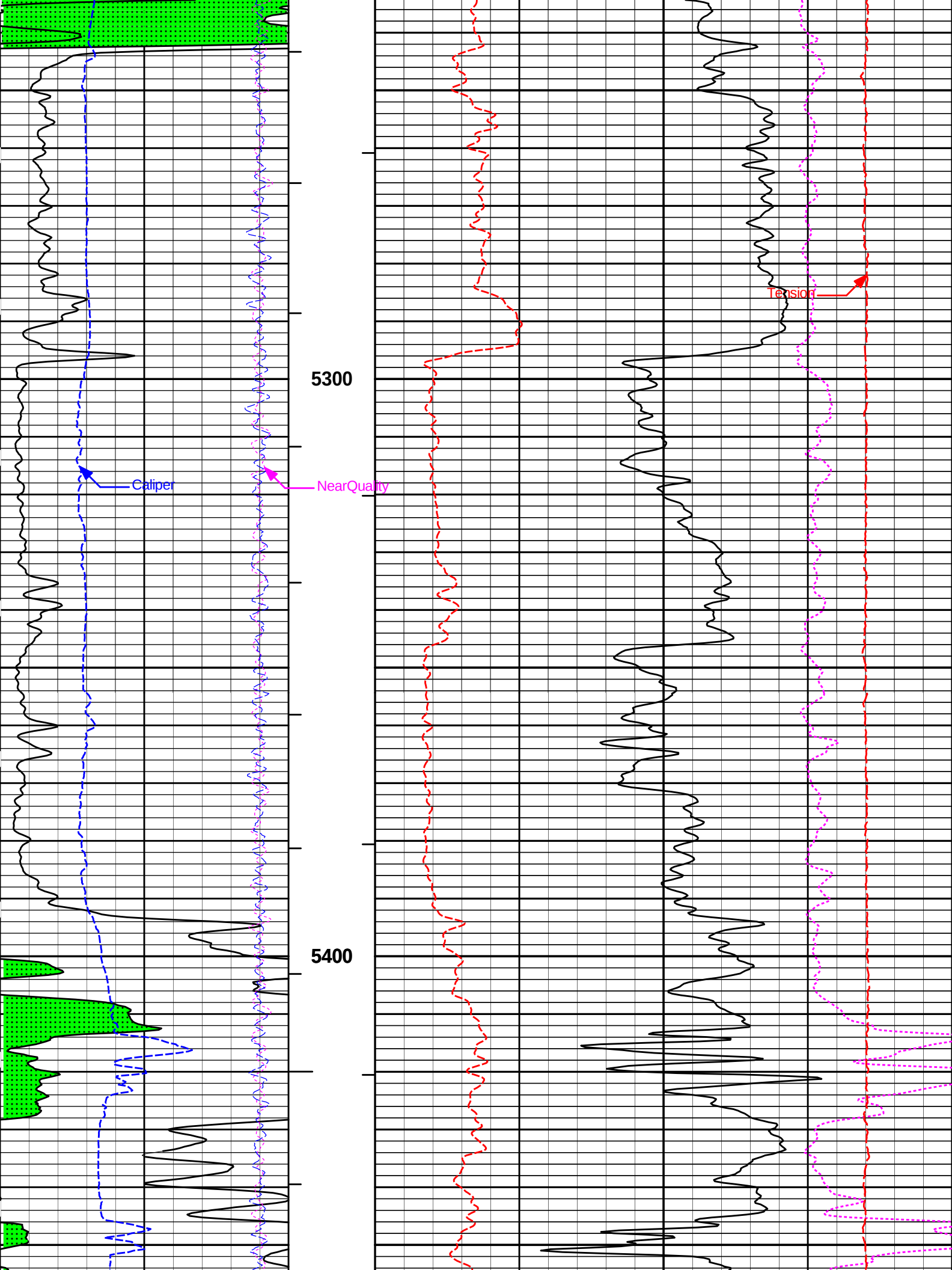


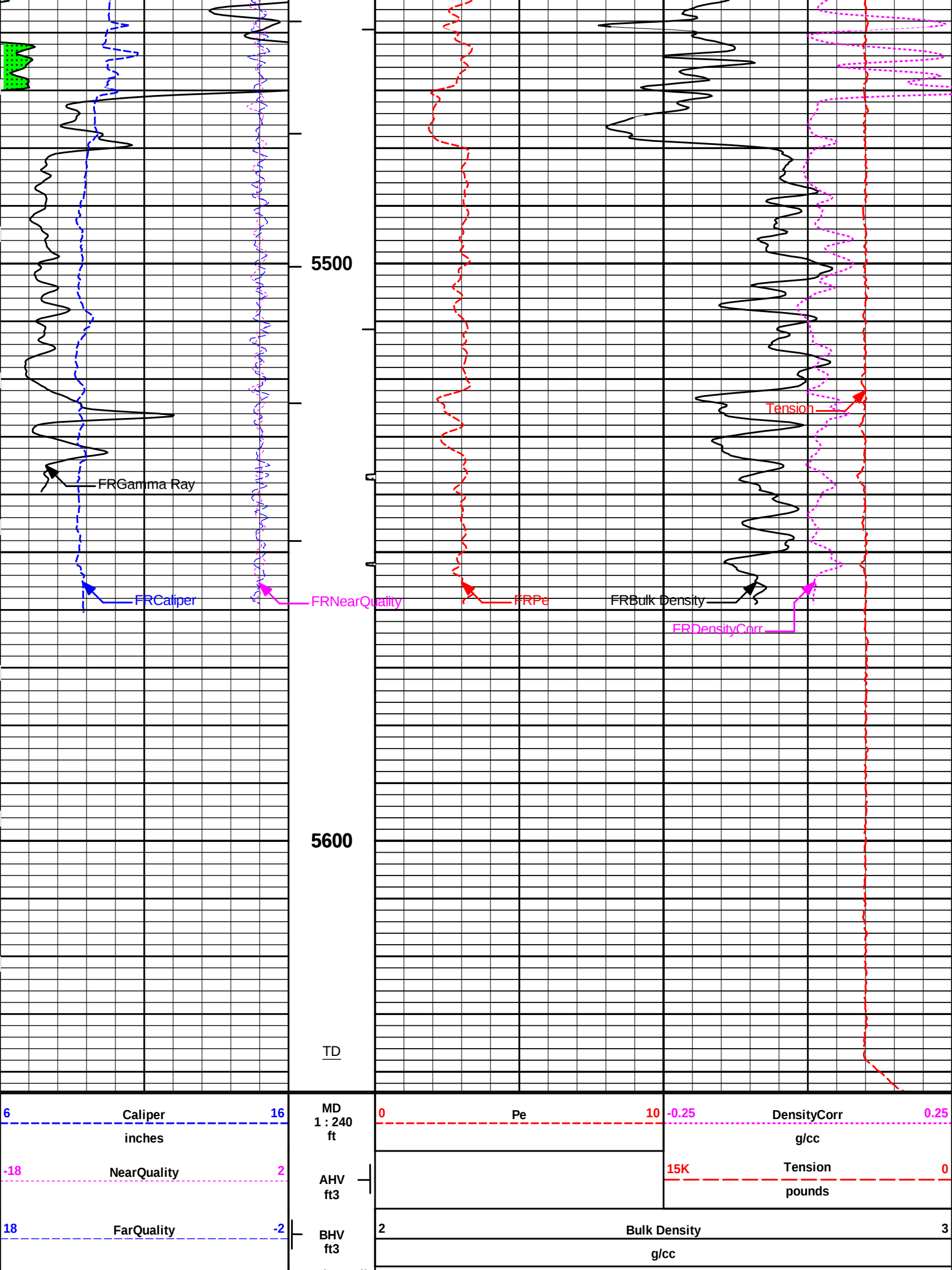












0	Gamma Ray	150	Tension Pull	10	0
	api				
	SHALE		Tension Pull		

HALLIBURTON

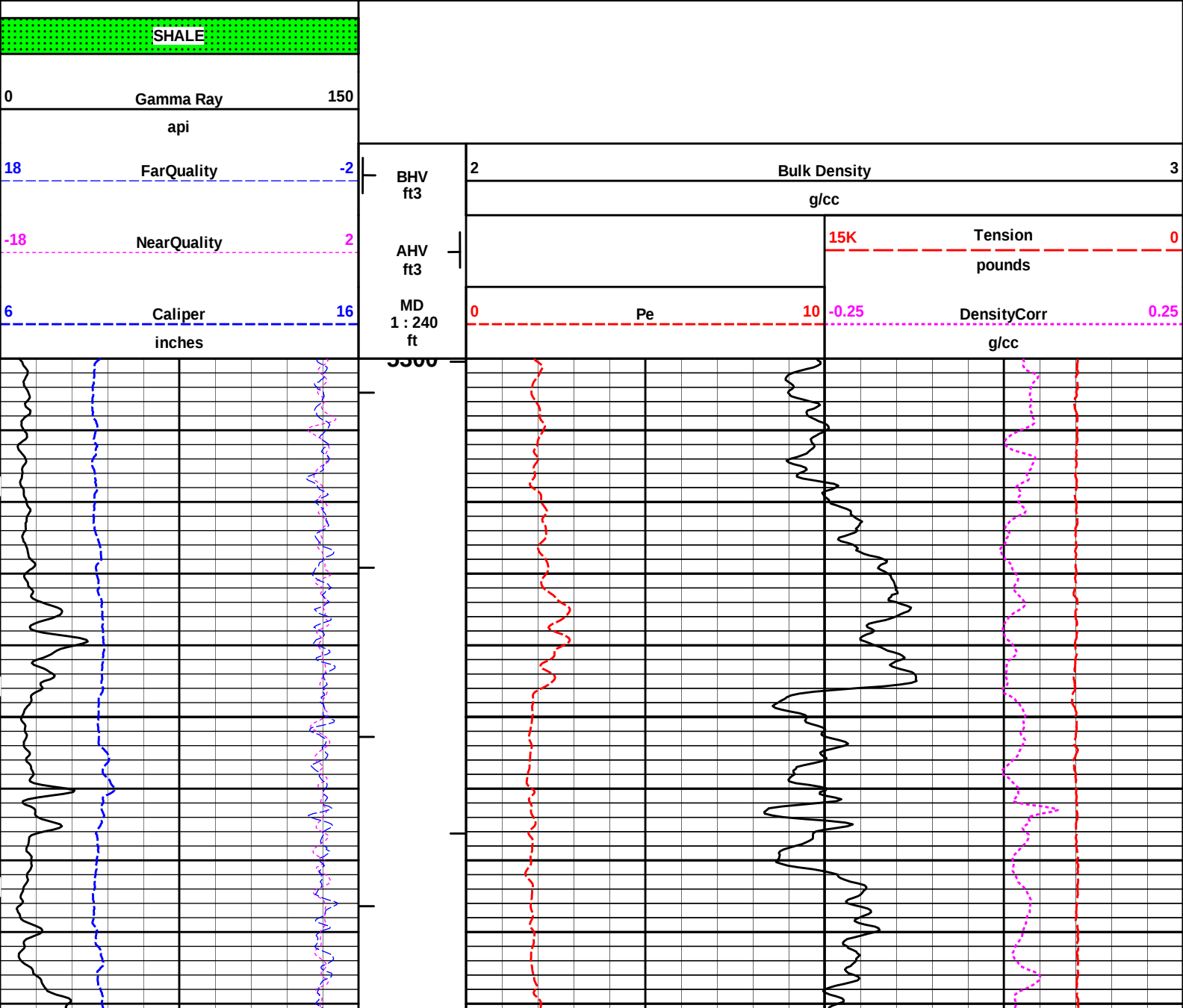
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Data: WRIGLEY_1_11_SW\Well Based\DETAIL\
Plot File: \\LOCAL-I\WRIGLEY_1_11_SW\0001 SP-GTET-DSN-SDL-IDT-ICT-WSTT-ACRT-CHIPORO\BULKD_5_MAIN_LIB

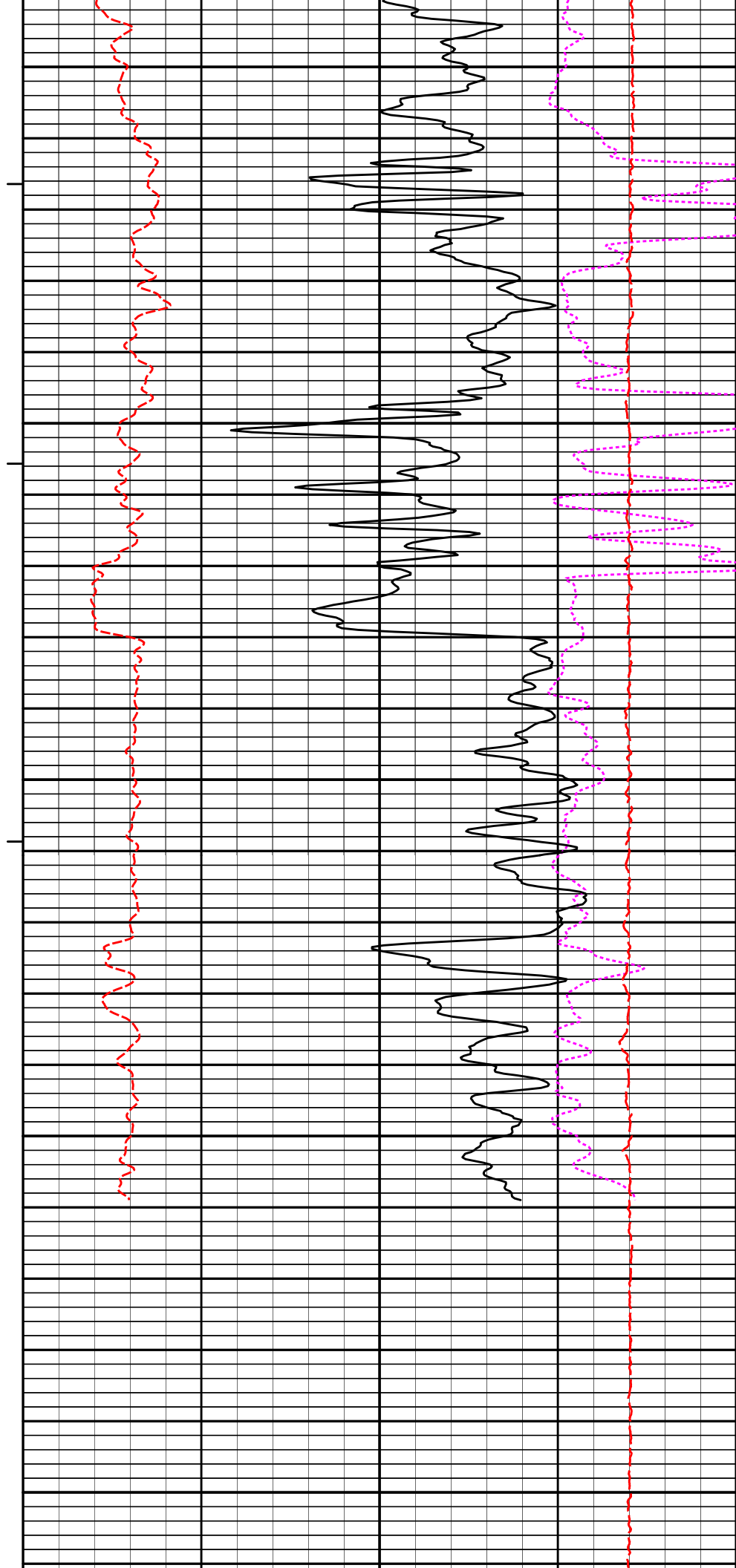
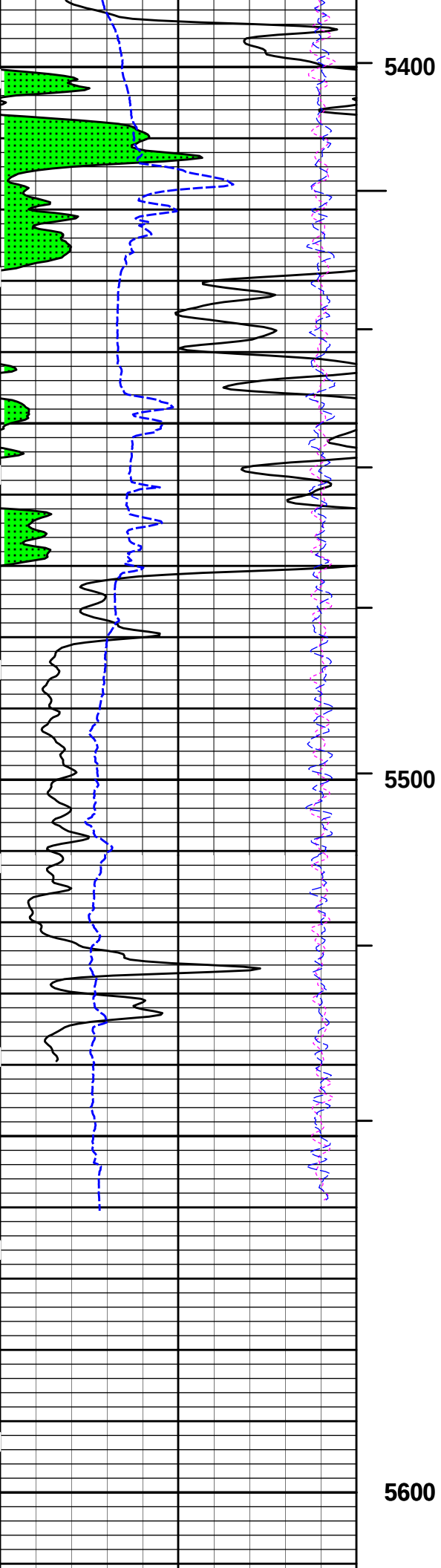
5 INCH MAIN LOG

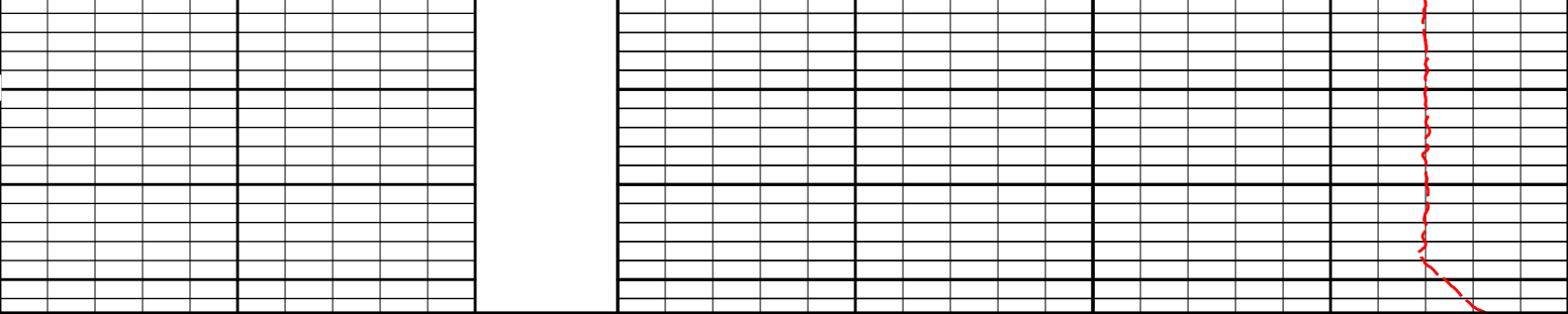
HALLIBURTON

Plot Time: 01-Jun-12 12:12:56
Plot Range: 5300 ft to 5643.5 ft
Data: WRIGLEY_1_11_SW\Well Based\REPEAT\
Plot File: \\LOCAL-I\WRIGLEY_1_11_SW\0001 SP-GTET-DSN-SDL-IDT-ICT-WSTT-ACRT-CHIPORO\BULKD_5_REP_LIB

REPEAT SECTION







6	Caliper	16	MD	0	Pe	10	-0.25	DensityCorr	0.25
	inches		1 : 240 ft					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							
	api								
	SHALE								

HALLIBURTON

Plot Time: 01-Jun-12 12:12:57
Plot Range: 5300 ft to 5643.5 ft
Data: WRIGLEY_1_11_SW\Well Based\REPEAT\
Plot File: \\-LOCAL-WRIGLEY_1_11_SW\0001 SP-GTET-DSN-SDL-IDT-ICT-WSTT-ACRT-CHIPORO\BULKD_5_REP_LIB

REPEAT SECTION

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
Cable Head- PROT01 30.00 lbs		Ø 3.625 in →			1.92 ft	114.66 ft
SP Sub-11441455 60.00 lbs		Ø 3.625 in →		← SP @ 110.96 ft	3.74 ft	112.74 ft
GTET-11048627 165.00 lbs		Ø 3.625 in →			8.52 ft	109.00 ft
				← GammaRay @ 102.94 ft		
						100.48 ft
DSN Decentralizer- 11005605 6.60 lbs		Ø 5.000 in* →				
DSNT-11019643 174.00 lbs		Ø 3.625 in →			9.69 ft	

SDLT-I43_M469
360.00 lbs

SDLT Pad-P81
65.00 lbs
Microlog Pad-M489
8.00 lbs

Flex Joint-
10834121
140.00 lbs

IDT-1094
150.00 lbs

ICT-633
330.00 lbs

Centralizer 25-001
8.00 lbs

Ø 4.500 in →

Ø 4.750 in* →
Ø 4.750 in* →

Ø 3.625 in →

Ø 3.625 in →

Ø 3.625 in →

Ø 4.000 in* →

← DSN Far @ 93.55 ft
← DSN Near @ 92.80 ft

Microlog @ 82.98 ft
SDL Caliper @ 82.80 ft
SDL @ 82.79 ft

← ICT Caliper @ 56.69 ft

10.81 ft

5.67 ft

7.58 ft

12.83 ft

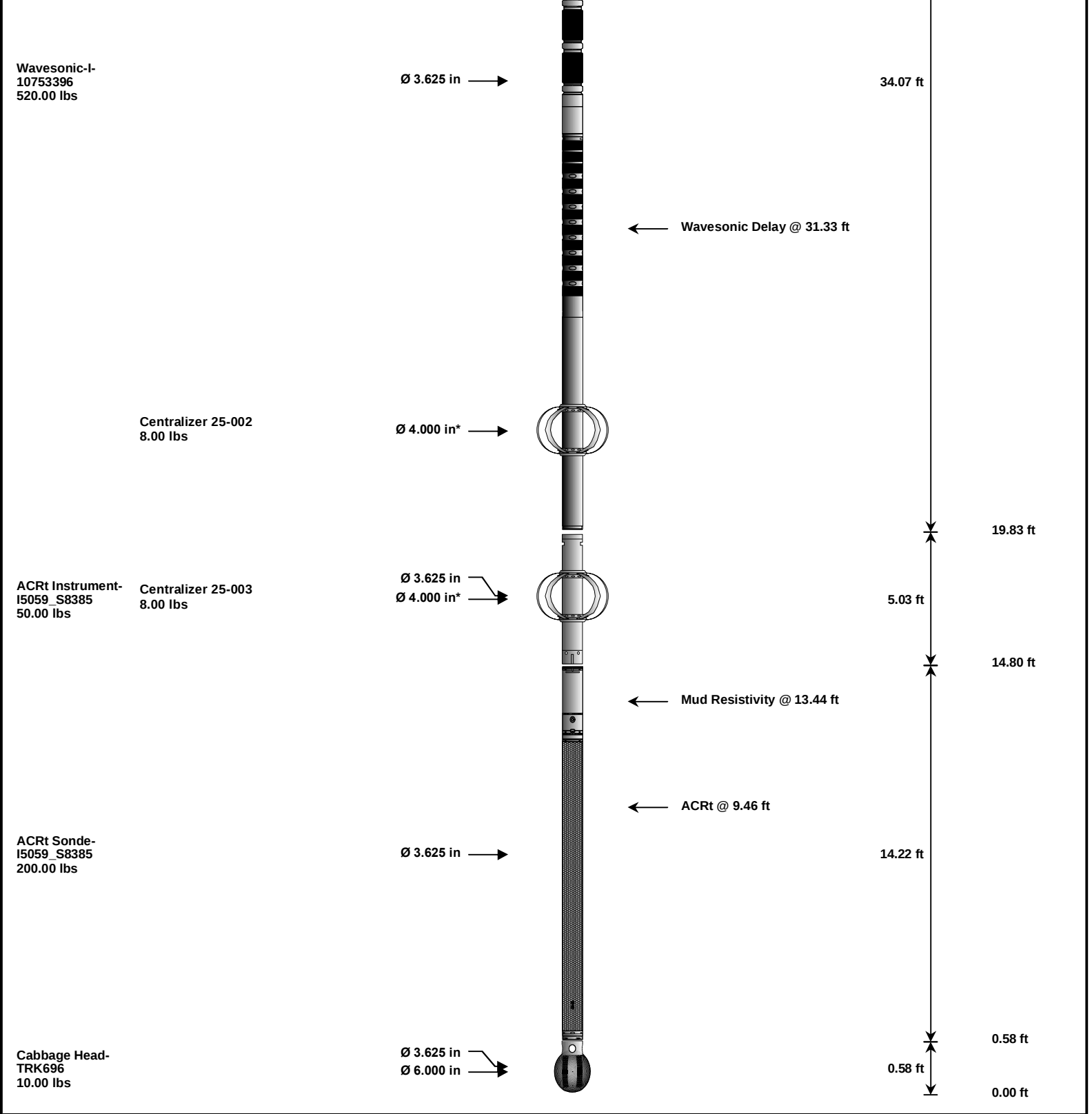
90.80 ft

79.98 ft

74.31 ft

66.73 ft

53.90 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	112.74	300.00
SP	SP Sub		11441455	60.00	3.74	109.00	300.00
GTET	Gamma Telemetry Tool		11048627	165.00	8.52	100.48	60.00
DSNT	Dual Spaced Neutron		11019643	174.00	9.69	90.80	60.00
DCNT	DSN Decentralizer		11005605	6.60	5.13	* 94.13	300.00
SDLT	Spectral Density Tool		I43_M469	360.00	10.81	79.98	60.00
SDLP	Density Insite Pad		P81	65.00	2.55	* 82.19	60.00
MICP	Microlog Pad		M489	8.00	1.00	* 82.48	60.00
FLEX	Flex Joint		10834121	140.00	5.67	74.31	300.00
IDT	Insite Directional Tool		1094	150.00	7.58	66.73	30.00
ICT	Six Independent Arm Caliper		633	330.00	12.83	53.90	30.00
WSTT	WaveSonic Insite		10753396	520.00	34.07	19.83	30.00
OBCEN	Centralizer - 25 in. Overbody		002	8.00	2.08	* 22.61	300.00
OBCEN	Centralizer - 25 in. Overbody		001	8.00	2.08	* 48.19	300.00

OBCEN	Centralizer - 25 in. Overbody	001	8.00	2.08	48.18	300.00
ACRt	Array Compensated True Resistivity Instrument Section	I5059_S8385	50.00	5.03	14.80	300.00
OBCEN	Centralizer - 25 in. Overbody	003	8.00	2.08	*	16.27
ACRt	Array Compensated True Resistivity	I5059_S8385	200.00	14.22	0.58	300.00
CBHD	Cabbage Head	TRK696	10.00	0.58	0.00	300.00
Total			2,292.60	114.66		
* Not included in Total Length and Length Accumulation.						
Data: WRIGLEY_1_11_SWI0001 SP-GTET-DSN-SDL-IDT-ICT-WSTT-ACRT-CHIDLE					Date: 01-Jun-12 05:37:09	

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name: GTET - 11048627

Reference Calibration Date: 15-May-12 17:53:19

Engineer: THOMAS HYDE

Calibration Date: 18-May-12 15:34:35

Software Version: WL INSITE R3.4.2 (Build 2)

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	37.2	34.8	api
Background + Calibrator	320.4	299.8	api
Calibrator	262.6	265.0	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name: GTET - 11048627

Reference Calibration Date: 18-May-12 15:34:35

Engineer: T. HYDE

Calibration Date: 01-Jun-12 04:33:58

Software Version: WL INSITE R3.4.2 (Build 2)

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	34.8	21.9	api
Background + Calibrator	299.8	288.4	api
Calibrator	265.0	266.5	api

Shop	Field	Difference	Tolerance
265.0	266.5	-1.5	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name: DSNT - 11019643

Reference Calibration Date: 01-Jan-70 00:00:00

Engineer: C. HAVERKAMP

Calibration Date: 24-May-12 14:11:28

Software Version: WL INSITE R3.4.2 (Build 2)

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: 78 degF

Min. Tool Housing Outside Diameter: 3.620 in

CALIBRATION CONSTANTS

CALIBRATION CONSTANTS			
Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.961	0.961	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	0.0000	+/- 0.0020
Calibrated Ratio:	9.72	9.72	0.000	+/- 0.050

VERIFIER		
Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0719	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:	24-May-12 14:11:28
Engineer:	T. HYDE	Calibration Date:	01-Jun-12 04:37:33
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

Logging Source S/N: 696

Snow Block S/N: 696

NEUTRON FIELD-CHECK SUMMARY				
	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0719	0.0762	0.0043	+/- 0.0150

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

DENSITY CALIPER SHOP CALIBRATION			
Tool Name:	SDLT - I43_M469	Reference Calibration Date:	22-Mar-12 15:14:38
Engineer:	C. HAVERKAMP	Calibration Date:	22-May-12 00:16:02
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	-1780.50	-2150.90	-7000.00 - -1000.00
Pad Gain	0.0003937	0.0004032	0.000200 - 0.000600
Arm Offset	-281.72	-1112.69	-5000.00 - 3000.00
Arm Gain	0.0004814	0.0005921	0.000300 - 0.000700
Arm Power	-0.000003625	-0.000009284	-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)	2.10	2.00	-0.10	+/- 0.20
Medium Ring (in)	3.81	3.75	-0.06	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.69	6.50	-0.19	+/- 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	
Calibration-Coefficients Range Check:	Passed

SDLT CALIPER FIELD CALIBRATION				
Tool Name:	SDLT - I43_M469	Reference Calibration Date:	22-May-12 00:16:02	
Engineer:	C. HAVERKAMP	Calibration Date:	22-May-12 00:18:36	
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1	

MEASURED CALIPER VALUES				
Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.76	0.01	+/- 0.10
Ring Diameter	8.25	8.22	-0.03	+/- 0.15
PASS/FAIL SUMMARY				
Pad Extension Check:			Passed	
Diameter Check:			Passed	

SPECTRAL DENSITY SHOP CALIBRATION				
Tool Name:	SDLT Pad - P81	Reference Calibration Date:	11-Apr-12 11:39:50	
Engineer:	C. HAVERKAMP	Calibration Date:	24-May-12 13:11:56	
Software Version:	WL INSITE R3.4.2 (Build 2)	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	1.0382	1.0714	0.90 - 1.10
Near Dens Gain	1.0257	1.0459	0.90 - 1.10
Near Peak Gain	1.0110	1.0501	0.90 - 1.10
Near Lith Gain	1.0020	1.0057	0.90 - 1.10
Far Bar Gain	1.0133	1.0161	0.90 - 1.10
Far Dens Gain	1.0031	1.0038	0.90 - 1.10
Far Peak Gain	0.9975	0.9939	0.90 - 1.10
Far Lith Gain	0.9787	0.9787	0.90 - 1.10
Near Bar Offset	-0.1349	-0.4554	NONE
Near Dens Offset	-0.0267	-0.2268	NONE
Near Peak Offset	0.1071	-0.2397	NONE
Near Lith Offset	0.1758	0.1165	NONE
Far Bar Offset	0.0394	-0.0037	NONE
Far Dens Offset	0.1190	0.0923	NONE

Far Peak Offset	0.1453	0.1555	NONE
Far Lith Offset	0.2815	0.2527	NONE
Near Bar Background	824.98	823.09	700 - 1450
Near Dens Background	270.65	267.30	230 - 480
Near Peak Background	117.03	118.34	100 - 210
Near Lith Background	144.76	144.93	125 - 260
Far Bar Background	533.64	534.55	450 - 900
Far Dens Background	210.93	210.47	175 - 345
Far Peak Background	84.47	84.38	70 - 140
Far Lith Background	87.23	86.47	75 - 145

CALIBRATION BLOCK SUMMARY				
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.685	1.684	-0.001	+/- 0.015
Pe	2.437	2.561	0.124	+/- 0.150
ALUMINUM				
Density (g/cc)	2.598	2.598	-0.000	+/- 0.01500
Pe	3.058	3.129	0.071	+/- 0.150

TOOL SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	-0.0019	+/- 0.0110	-0.0006	+/- 0.0140
Magnesium Block	-0.0012	+/- 0.0110	-0.0019	+/- 0.0140
Aluminum Block	0.0005	+/- 0.0110	-0.0001	+/- 0.0140
Resolution	9.38	6.00 - 11.50	8.83	6.00 - 11.50
Internal Verifier(B+D+P+L)	1354	1200 - 2700	916	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 - P81	Reference Calibration Date:	24-May-12 13:11:56
Engineer:	THOMAS HYDE	Calibration Date:	31-May-12 11:29:54
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

Pad Temperature: 73.9 degF

DENSITY FIELD CALIBRATION SUMMARY				
Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1353.666	1353.873	0.207	14.875
Far (B+D+P+L) cps	915.867	912.033	-3.834	16.413

Near Resolution		9.38	9.43	0.050	0.50	
Far Resolution		8.83	9.04	0.210	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	266.5	-----	-1.5	+/- 9.00	api
DSNT-11019643						
Snow-Block Porosity	0.0719	0.0762	-----	-0.0043	+/- 0.0150	decp
SDLT-I43_M469						
Pad Extension	3.75	3.76	-----	-0.01	+/-0.10	in
Ring Diameter	8.25	8.22	-----	0.030	+/-0.15	in
SDLT Pad-P81						
Near(B+D+P+L)	1353.666	1353.873	-----	-0.207	+/-14.875	cps
Far(B+D+P+L)	915.867	912.033	-----	3.834	+/-16.413	cps
Data: WRIGLEY_1_11_SWI0001 SP-GTET-DSN-SDL-IDT-ICT-WSTT-ACRT-CHIDLE				Date: 01-Jun-12 05:43:33		
HALLIBURTON						
PARAMETERS REPORT						
Depth (ft)	Tool Name	Mnemonic	Description	Value	Units	
TOP						
	SHARED	BS	Bit Size	8.750	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	7.000	in	
	SHARED	ST	Surface Temperature	75.0	degF	
	SHARED	TD	Total Well Depth	5655.00	ft	
	SHARED	BHT	Bottom Hole Temperature	200.0	degF	
	SHARED	SVTM	Navigation and Survey Master Tool	IDT		
	SHARED	AZTM	High Res Z Accelerometer Master Tool	IDT		
	SHARED	TEMM	Temperature Master Tool	NONE		
	SHARED	BHSM	Borehole Size Master Tool	NONE		
	Rwa / CrossPlot	XPOK	Process Crossplot?	Yes		
	Rwa / CrossPlot	FCHO	Select Source of F	Automatic		
	Rwa / CrossPlot	AFAC	Archie A factor	0.6200		
	Rwa / CrossPlot	MFAC	Archie M factor	2.1500		

CrossPlot	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
	IDT	WRTI	Survey Writing Interval	30	ft
	IDT	SOPT	Smoothing Option	None	
	ICT	CLOK	Process Caliper Outputs?	Yes	
	ICT	NAVS	Navigation Source Tool	IDT	
	Wavesonic-I	WSOK	Process WSTT?	Yes	
	Wavesonic-I	MSWN	Monopole Sliding Window Length	-1.00	us
	Wavesonic-I	DSWN	Dipole Sliding Window Length	-1.00	us
	Wavesonic-I	PINT	Process 1 Sample and Skip	0	
	Wavesonic-I	PROM	Process Mode: M=1,MX=2,MY=3,MXY=4	4	
	Wavesonic-I	SMTH	Semblance Smoothing	-2.00	
	Wavesonic-I	DTSH	Delta -T Shale	100.00	uspf
	Wavesonic-I	DTMT	Delta -T Matrix Type	User define	
	Wavesonic-I	DTMA	Delta -T Matrix	47.60	uspf
	Wavesonic-I	DTFL	Delta -T Fluid	189.00	uspf
	Wavesonic-I	RHOM	Matrix Density	2.7100	g/cc
	Wavesonic-I	RHOF	Fluid Density	1.0000	g/cc
	Wavesonic-I	STOL	Slow Tolerance	40.00	
	Wavesonic-I	SMTL	Semblance Tolerance	0.25	
	Wavesonic-I	SMTL	Semblance Threshold	0.25	
	Wavesonic-I	VPVS	VPVS Ratio for Porosity	1.40	
	Wavesonic-I	APEQ	Acoustic Porosity Equation	Wylie	
	Wavesonic-I	SHAO	Show Advanced Options?	Yes	
	Wavesonic-I	WRNM	Wavesonic Receiver Normalization Method	None	
	Wavesonic-I	DTRM	Transmitter to First Receiver Distance - Monopole	10.24	ft
	Wavesonic-I	DTRX	Transmitter to First Receiver Distance Dipole X	9.24	ft
	Wavesonic-I	DTRY	Transmitter to First Receiver Distance Dipole Y	9.24	ft
	Wavesonic-I	DIRM	Receiver Spacing	0.50	ft

Wavesonic-I	NRAM	Number of Receivers in Array	8	
Wavesonic-I	DWCM	Digitizer Word Count Monopole	400	
Wavesonic-I	DSIM	Digital Sample Interval - Monopole	20.3174	us
Wavesonic-I	WDDM	Waveform Recording Delay Monopole	-304.761	us
Wavesonic-I	DWCX	Digitizer Word Count Dipole X	400	
Wavesonic-I	DSIX	Digital Sample Interval Dipole X	40.635	us
Wavesonic-I	WDDX	Waveform Digitization Delay Dipole X	-304.761	us
Wavesonic-I	DWCY	Digitizer Word Count Dipole Y	400	
Wavesonic-I	DSIY	Digital Sample Interval Dipole Y	40.635	us
Wavesonic-I	WDDY	Waveform Digitization Delay Dipole Y	-304.761	us
Wavesonic-I	NAVS	Navigation Source Tool	IDT	
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: WRIGLEY_1_11_SWI0001 SP-GTET-DSN-SDL-IDT-ICT-WSTT-ACRT-CHIDLE				Date: 01-Jun-12 05:41:06

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	110.96	NO	
SP	Spontaneous Potential	110.96	BLK	1.250
SPR	Raw Spontaneous Potential	110.96	NO	
SPO	Spontaneous Potential Offset	110.96	NO	
GTET				
TPUL	Tension Pull	102.94	NO	
GR	Natural Gamma Ray API	102.94	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	102.94	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	102.94	W	1.416 , 0.750
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	
DSNT				
TPUL	Tension Pull	92.70	NO	
RNDS	Near Detector Telemetry Counts	92.80	BLK	1.417
RFDS	Far Detector Telemetry Counts	93.55	TRI	0.583
DNTT	DSN Tool Temperature	92.80	NO	
DSNS	DSN Tool Status	92.70	NO	
ERND	Near Detector Telemetry Counts EVR	92.80	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	93.55	BLK	0.000
ENTM	DSN Tool Temperature EVR	92.80	NO	

SDLT				
TPUL	Tension Pull	82.80	NO	
PCAL	Pad Caliper	82.80	TRI	0.250
ACAL	Arm Caliper	82.80	TRI	0.250
IDT				
TPUL	Tension Pull	67.73	NO	
ACCX	Accelerometer X	67.73	NO	
ACCY	Accelerometer Y	67.73	NO	
ACCZ	Accelerometer Z	67.73	NO	
MAGX	magnetometer x with unit	67.73	NO	
MAGY	Magnetometer Y with unit	67.73	NO	
MAGZ	magnetometer z with unit	67.73	NO	
IAMP	Accelerometer Temperature	67.73	NO	
MTMP	Magnetometer Temperature	67.73	NO	
ICT				
TPUL	Tension Pull	56.69	NO	
	Arm Potentiometer excitation V	53.90	NO	
	Caliper 1 measurement	56.69	BLK	1.250
	Caliper 2 measurement	56.69	BLK	1.250
	Caliper 3 measurement	56.69	BLK	1.250
	Caliper 4 measurement	56.69	BLK	1.250
	Caliper 5 measurement	56.69	BLK	1.250
	Caliper 6 measurement	56.69	BLK	1.250
	Caliper Global measurement	56.69	BLK	1.250
MOTI	Motor Current	53.90	NO	
MOT1	Motor Voltage Monitor 1	53.90	NO	
STA1	Status word #1	53.90	NO	
STA2	Status word #2	53.90	NO	
PRES	Caliper percentage of total compression of the spring	53.90	NO	
HAZI	Hole Azimuth	56.69	NO	
RB	Relative Bearing	56.69	NO	
AZI1	PAD1 Azimuth	56.69	NO	
DEVI	Inclination	56.69	NO	
Wavesonic-I				
TPUL	Tension Pull	31.33	NO	
DPSX	Dipole Source X StructureI	19.83	NO	
DPSY	Dipole Source Y StructureI	19.83	NO	
DPSM	Monopole Source Structure	19.83	NO	
WVST	Wavesonic Compressed Data	31.33	NO	
TPUL	Tension Pull	31.33	NO	
XMS1	Wave Sonic Status Word 1	19.83	NO	
XMS2	Wave Sonic Status Word 2	19.83	NO	
XMS1	Wave Sonic XMITStatus Word 1	19.83	NO	
XMS1	Wave Sonic XMITStatus Word 2	19.83	NO	
F1HA	Dipole 1 HV After	19.83	NO	
F1HB	Dipole 1 HV Before	19.83	NO	
F2HA	Dipole 2 HV After	19.83	NO	
F2HB	Dipole 2 HV Before	19.83	NO	
F3HA	Monopole HV After	19.83	NO	
F3HB	Monopole HV Before	19.83	NO	
INVT	Input Voltage	19.83	NO	
5VOL	5 Volts	19.83	NO	
MI5A	Minus 5 Volts Analog	19.83	NO	

ITMP	Instrument Temperature	19.83	NO
PL5A	Plus 5 Volts Analog	19.83	NO
5VD	Plus 5 Volts Digital	19.83	NO
TCUR	Tool Current	19.83	NO
SUPV	Supply Voltage	19.83	NO
PRVT	Preregulated voltage	19.83	NO
PRVT	Pre-regulated voltage Xmter	19.83	NO
TEMP	Temperature	19.83	NO
ACQN	Acquisition Number	19.83	NO
XDP	Delay Reference	31.33	NO
MITM	MIT Mode	31.33	NO
VERS	Version	19.83	NO
D1CT	Dipole 1 Compressed Word Count	31.33	NO
D2CT	Dipole 2 Compressed Word Count	31.33	NO
MCNT	Monopole Compressed Word Count	31.33	NO
SEQN	Sequence Number	19.83	NO
FREV	Firmware Revision	19.83	NO
MSMP	Monopole Sample Rate	19.83	NO
MSMP	Dipole Sample Rate	19.83	NO
MFWF	Monopole Firing Waveform	19.83	NO
MFRQ	Monopole Frequency	19.83	NO
MDLY	Monopole Delay	19.83	NO
DXWF	Dipole X Firing Waveform	19.83	NO
XFRQ	Dipole X Frequency	19.83	NO
XDLY	Dipole X Delay	19.83	NO
DYWF	Dipole Y Firing Waveform	19.83	NO
YFRQ	Dipole Y Frequency	19.83	NO
YDLY	Dipole Y Delay	19.83	NO
DPSX	Dipole Source X StructureI	19.83	NO
DPSY	Dipole Source Y StructureI	19.83	NO
DPSM	Monopole Source Structure	19.83	NO
WVST	Wavesonic Compressed Data	31.33	NO
AUTM	Auto Mode	19.83	NO
SONM	tool mode for sonic - 0 for normal or 3 for calibration	19.83	NO
MSL	Monopole Lower Travel Time	31.33	NO
MSH	Monopole Upper Travel Time	31.33	NO
MLFC	Monopole-1 Lower Filter Bandpass Frequency Cut-off	19.83	NO
MUFC	Monopole-1 Upper Filter Bandpass Frequency Cut-off	19.83	NO
DLTT	Dipole Lower Travel Time	19.83	NO
DUTT	Dipole Upper Travel Time	19.83	NO
DLFC	Dipole Lower Filter Bandpass Frequency Cut-off	19.83	NO
DUFC	Dipole Upper Filter Bandpass Frequency Cut-off	19.83	NO
MUTE	WaveSonic Mute/Enable Channels and Sides map	19.83	NO
MUTS	Mute/Enable Sides	19.83	NO
WSRB	Relative Bearing	31.33	NO
WSAZ	WSX Azimuth Pad 1	31.33	NO
TPUL	Tension Pull	31.33	NO
WMP	Summed array of Monopole for SIDES - A,B,C,D	31.33	NO
WXX	Dipole X for SIDES - A-C	31.33	NO
WYY	Dipole Y for SIDES - B-D	31.33	NO
WXY	Dipole X for SIDES - B-D	31.33	NO
WYX	Dipole Y for SIDES - A-C	31.33	NO
TPUL	Tension Pull	31.33	NO
WMA	Monopole Waveform Side A - Channel 1 to Channel 8 Receivers	31.33	NO
WMB	Monopole Waveform Side B - Channel 1 to Channel 8	31.33	NO

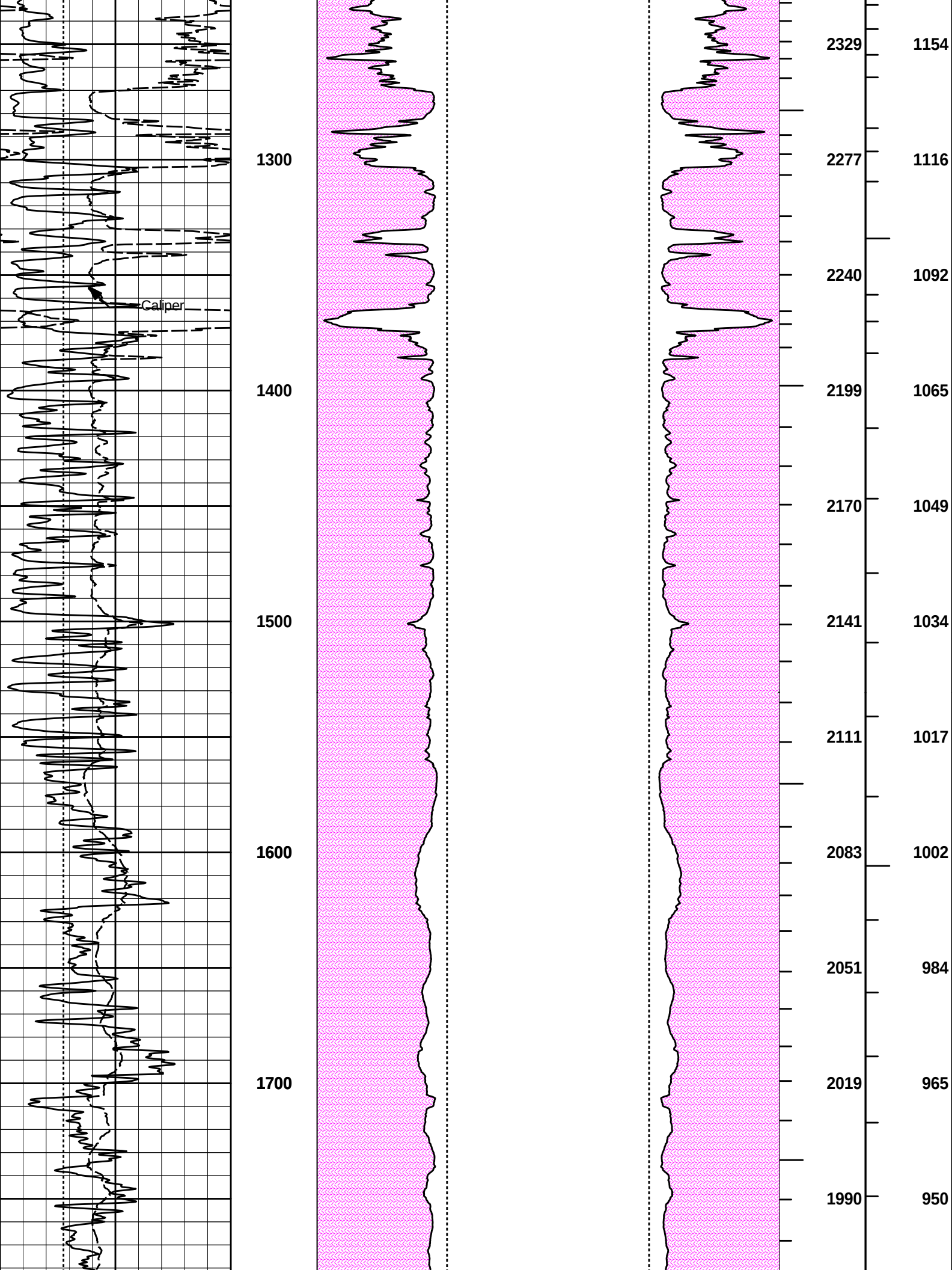
WMC	Receivers Monopole Waveform Side C - Channel 1 to Channel 8 Receivers	31.33	NO	
WMD	Monopole Waveform Side D - Channel 1 to Channel 8 Receivers	31.33	NO	
WXA	Dipole X Waveform Side A - Channel 1 to Channel 8 Receivers	31.33	NO	
WXB	Dipole X Waveform Side B - Channel 1 to Channel 8 Receivers	31.33	NO	
WXC	Dipole X Waveform Side C - Channel 1 to Channel 8 Receivers	31.33	NO	
WXD	Dipole X Waveform Side D - Channel 1 to Channel 8 Receivers	31.33	NO	
WYA	Dipole Y Waveform Side A - Channel 1 to Channel 8 Receivers	31.33	NO	
WYB	Dipole Y Waveform Side B - Channel 1 to Channel 8 Receivers	31.33	NO	
WYC	Dipole Y Waveform Side C - Channel 1 to Channel 8 Receivers	31.33	NO	
WYD	Dipole Y Waveform Side D - Channel 1 to Channel 8 Receivers	31.33	NO	
ACRt Sonde				
TPUL	Tension Pull	2.97	NO	
F1R1	ACRT 12KHz - 80in R value	9.22	BLK	0.000
F1X1	ACRT 12KHz - 80in X value	9.22	BLK	0.000
F1R2	ACRT 12KHz - 50in R value	6.72	BLK	0.000
F1X2	ACRT 12KHz - 50in X value	6.72	BLK	0.000
F1R3	ACRT 12KHz - 29in R value	5.22	BLK	0.000
F1X3	ACRT 12KHz - 29in X value	5.22	BLK	0.000
F1R4	ACRT 12KHz - 17in R value	4.22	BLK	0.000
F1X4	ACRT 12KHz - 17in X value	4.22	BLK	0.000
F1R5	ACRT 12KHz - 10in R value	3.72	BLK	0.000
F1X5	ACRT 12KHz - 10in X value	3.72	BLK	0.000
F1R6	ACRT 12KHz - 6in R value	3.47	BLK	0.000
F1X6	ACRT 12KHz - 6in X value	3.47	BLK	0.000
F2R1	ACRT 36KHz - 80in R value	9.22	BLK	0.000
F2X1	ACRT 36KHz - 80in X value	9.22	BLK	0.000
F2R2	ACRT 36KHz - 50in R value	6.72	BLK	0.000
F2X2	ACRT 36KHz - 50in X value	6.72	BLK	0.000
F2R3	ACRT 36KHz - 29in R value	5.22	BLK	0.000
F2X3	ACRT 36KHz - 29in X value	5.22	BLK	0.000
F2R4	ACRT 36KHz - 17in R value	4.22	BLK	0.000
F2X4	ACRT 36KHz - 17in X value	4.22	BLK	0.000
F2R5	ACRT 36KHz - 10in R value	3.72	BLK	0.000
F2X5	ACRT 36KHz - 10in X value	3.72	BLK	0.000
F2R6	ACRT 36KHz - 6in R value	3.47	BLK	0.000
F2X6	ACRT 36KHz - 6in X value	3.47	BLK	0.000
F3R1	ACRT 72KHz - 80in R value	9.22	BLK	0.000
F3X1	ACRT 72KHz - 80in X value	9.22	BLK	0.000
F3R2	ACRT 72KHz - 50in R value	6.72	BLK	0.000
F3X2	ACRT 72KHz - 50in X value	6.72	BLK	0.000
F3R3	ACRT 72KHz - 29in R value	5.22	BLK	0.000
F3X3	ACRT 72KHz - 29in X value	5.22	BLK	0.000
F3R4	ACRT 72KHz - 17in R value	4.22	BLK	0.000
F3X4	ACRT 72KHz - 17in X value	4.22	BLK	0.000
F3R5	ACRT 72KHz - 10in R value	3.72	BLK	0.000
F3X5	ACRT 72KHz - 10in X value	3.72	BLK	0.000
F3R6	ACRT 72KHz - 6in R value	3.47	BLK	0.000
F3X6	ACRT 72KHz - 6in X value	3.47	BLK	0.000
RMUD	Mud Resistivity	12.76	BLK	0.000

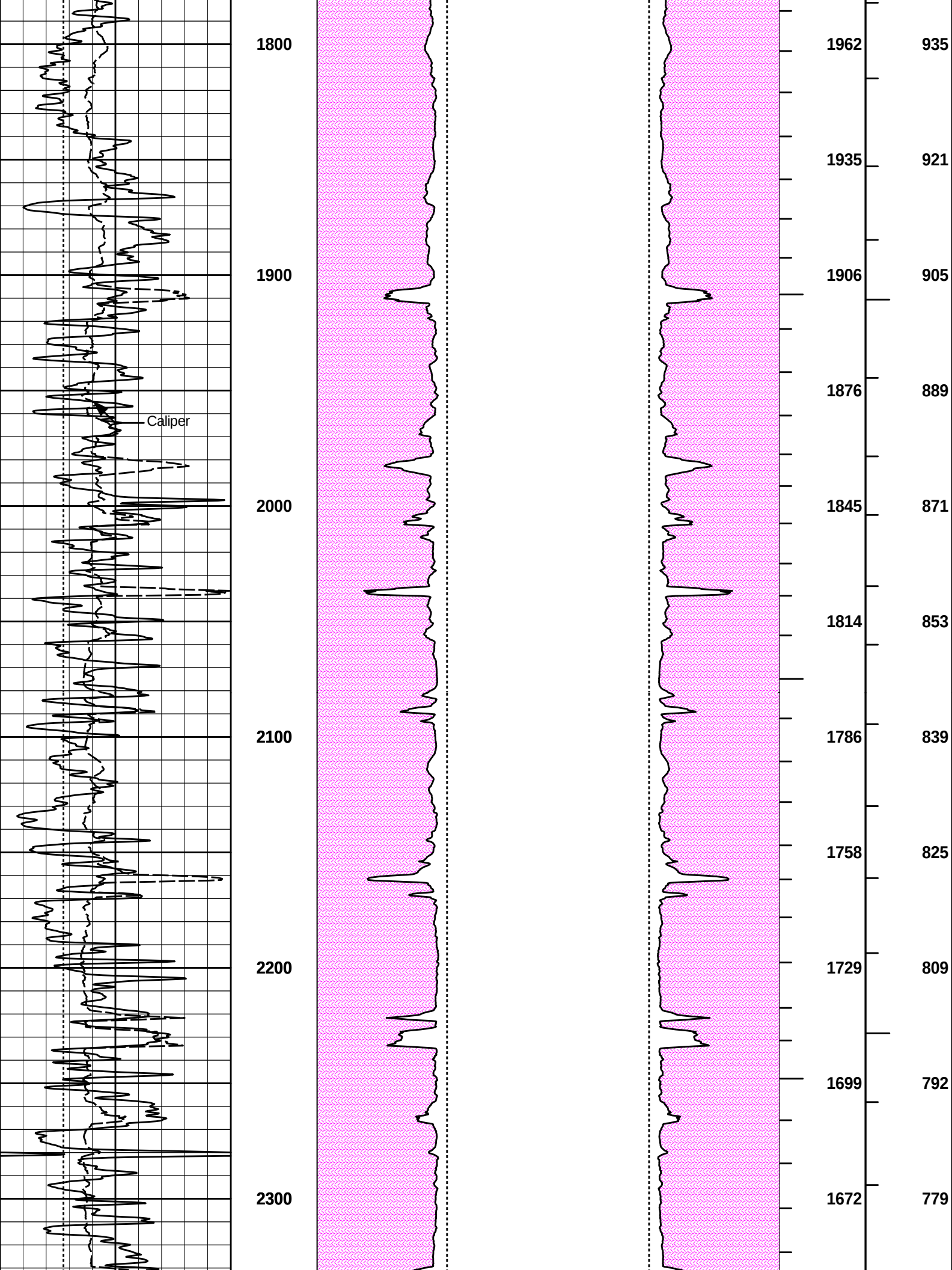
F1RT	Transmitter Reference 12 KHz Real Signal	2.97	BLK	0.000
F1XT	Transmitter Reference 12 KHz Imaginary Signal	2.97	BLK	0.000
F2RT	Transmitter Reference 36 KHz Real Signal	2.97	BLK	0.000
F2XT	Transmitter Reference 36 KHz Imaginary Signal	2.97	BLK	0.000
F3RT	Transmitter Reference 72 KHz Real Signal	2.97	BLK	0.000
F3XT	Transmitter Reference 72 KHz Imaginary Signal	2.97	BLK	0.000
TFPU	Upper Feedpipe Temperature Calculated	2.97	BLK	0.000
TFPL	Lower Feedpipe Temperature Calculated	2.97	BLK	0.000
ITMP	Instrument Temperature	2.97	BLK	0.000
TCVA	Temperature Correction Values Loop Off	2.97	NO	
TIDV	Instrument Temperature Derivative	2.97	NO	
TUDV	Upper Temperature Derivative	2.97	NO	
TLDV	Lower Temperature Derivative	2.97	NO	
TRBD	Receiver Board Temperature	2.97	NO	

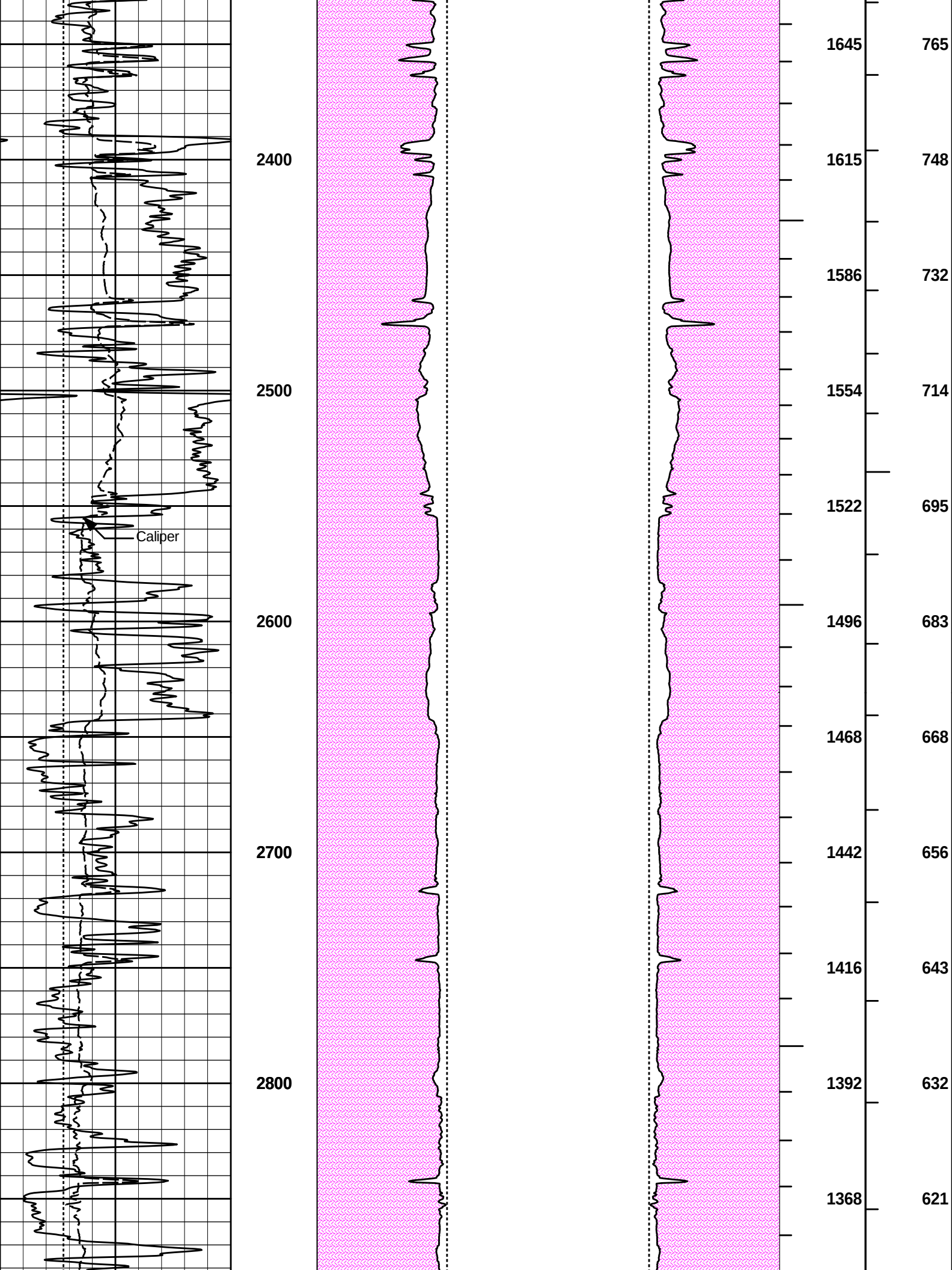
Microlog Pad				
TPUL	Tension Pull	82.98	NO	
MINV	Microlog Lateral	82.98	BLK	0.750
MNOR	Microlog Normal	82.98	BLK	0.750

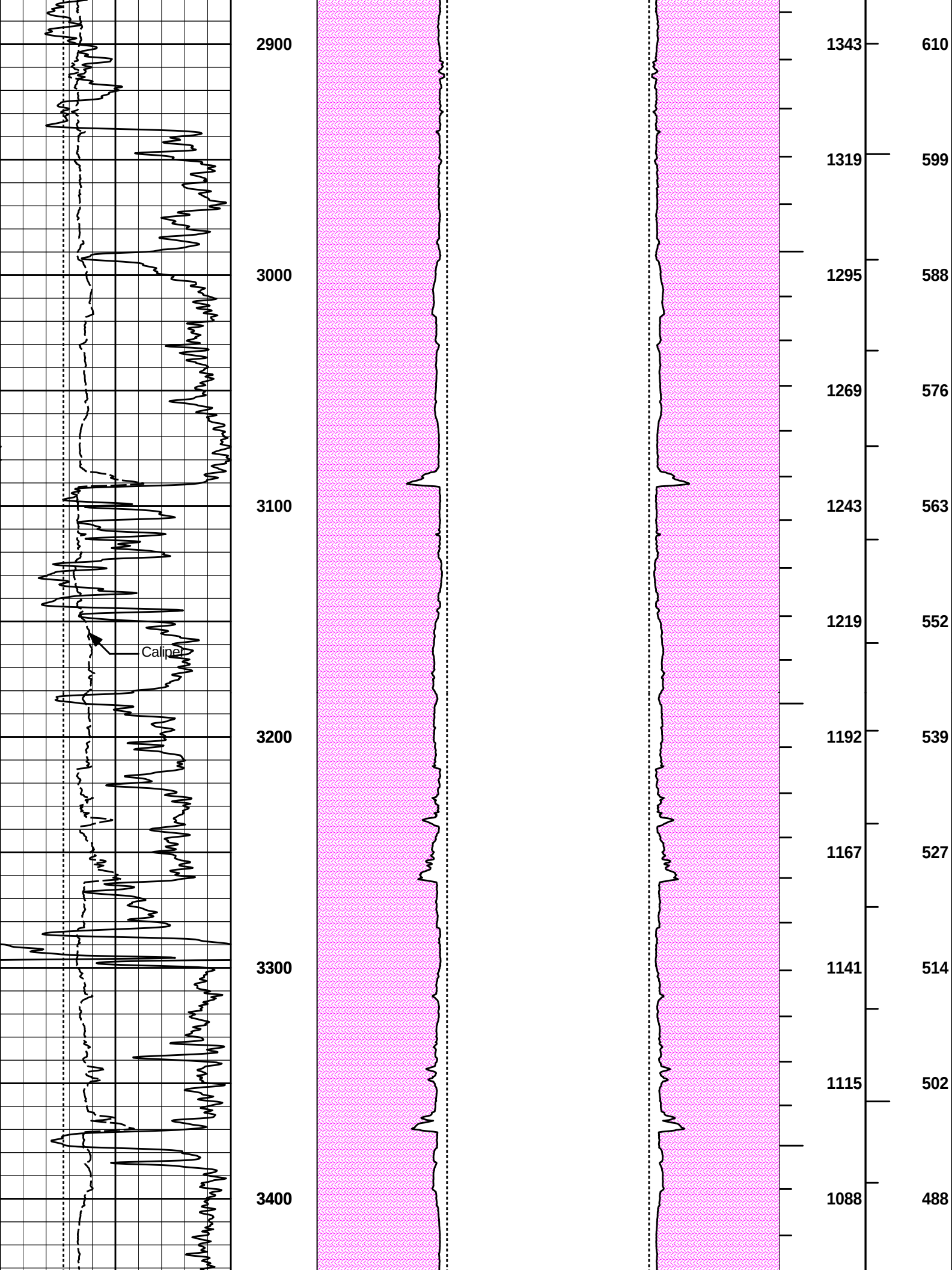
SDLT Pad				
TPUL	Tension Pull	82.79	NO	
NAB	Near Above	82.61	BLK	0.920
NHI	Near Cesium High	82.61	BLK	0.920
NLO	Near Cesium Low	82.61	BLK	0.920
NVA	Near Valley	82.61	BLK	0.920
NBA	Near Barite	82.61	BLK	0.920
NDE	Near Density	82.61	BLK	0.920
NPK	Near Peak	82.61	BLK	0.920
NLI	Near Lithology	82.61	BLK	0.920
NBAU	Near Barite Unfiltered	82.61	BLK	0.250
NLIU	Near Lithology Unfiltered	82.61	BLK	0.250
FAB	Far Above	82.96	BLK	0.250
FHI	Far Cesium High	82.96	BLK	0.250
FLO	Far Cesium Low	82.96	BLK	0.250
FVA	Far Valley	82.96	BLK	0.250
FBA	Far Barite	82.96	BLK	0.250
FDE	Far Density	82.96	BLK	0.250
FPK	Far Peak	82.96	BLK	0.250
FLI	Far Lithology	82.96	BLK	0.250
PTMP	Pad Temperature	82.80	BLK	0.920
NHV	Near Detector High Voltage	82.19	NO	
FHV	Far Detector High Voltage	82.19	NO	
ITMP	Instrument Temperature	82.19	NO	
DDHV	Detector High Voltage	82.19	NO	

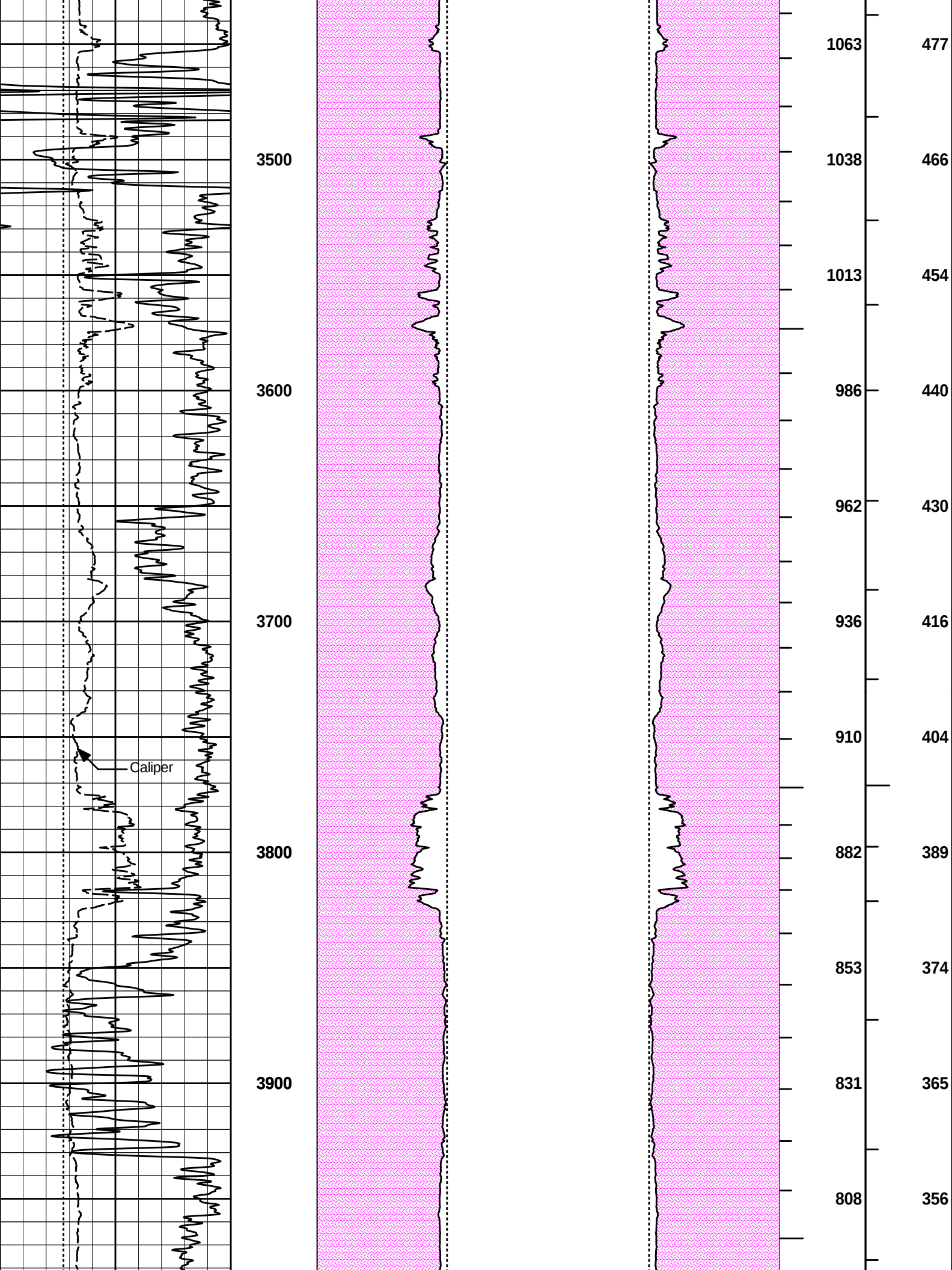
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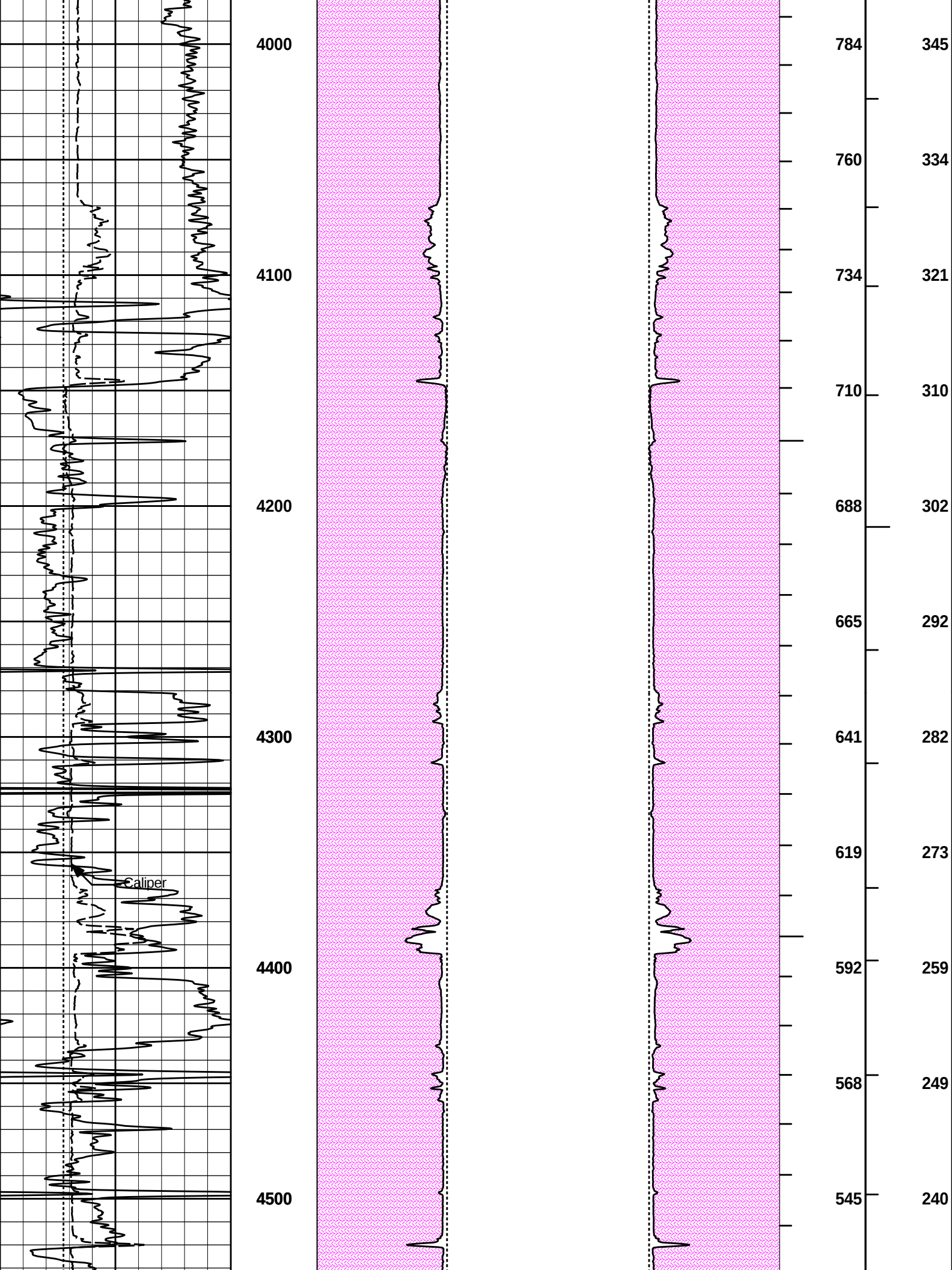


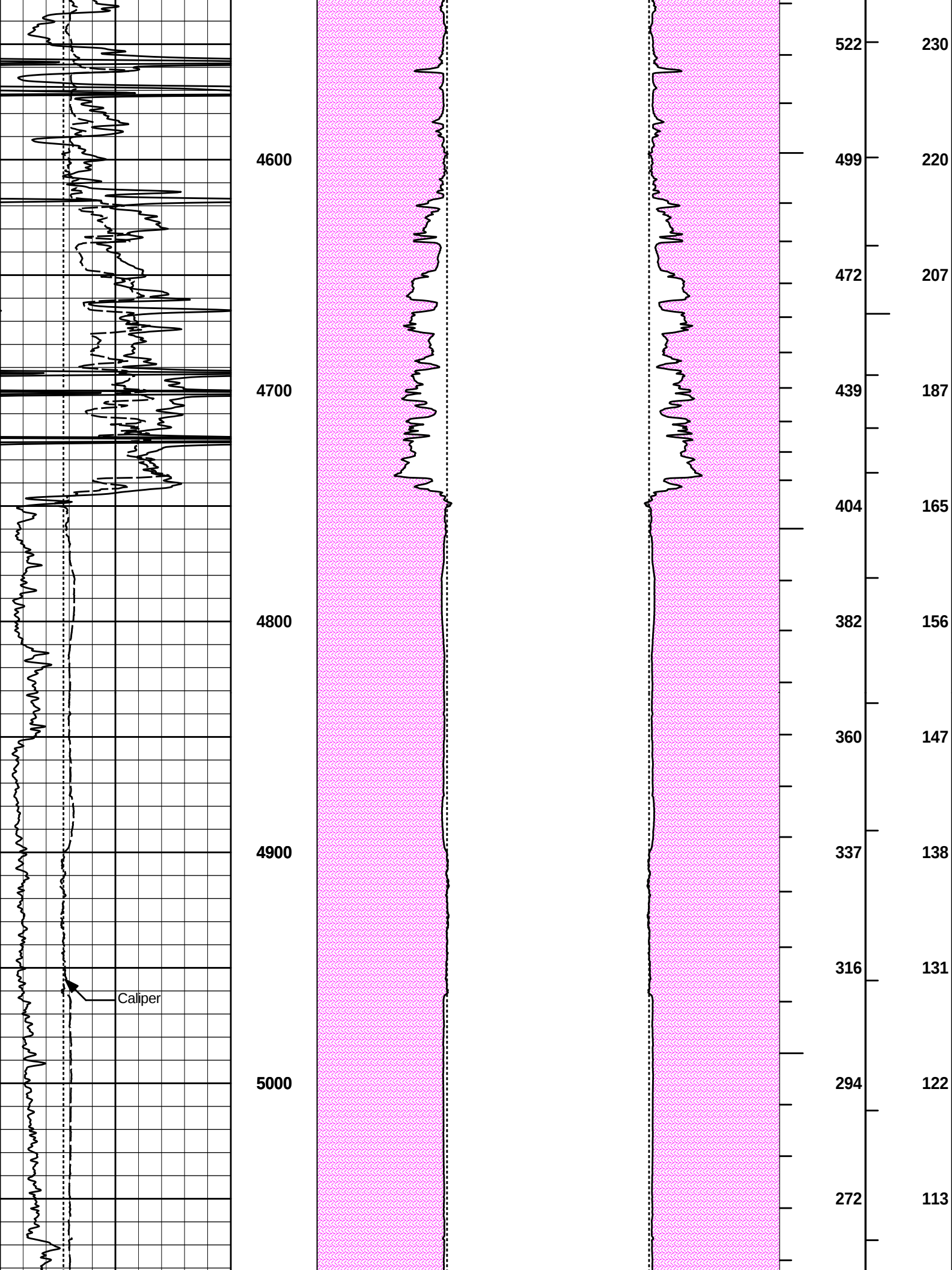


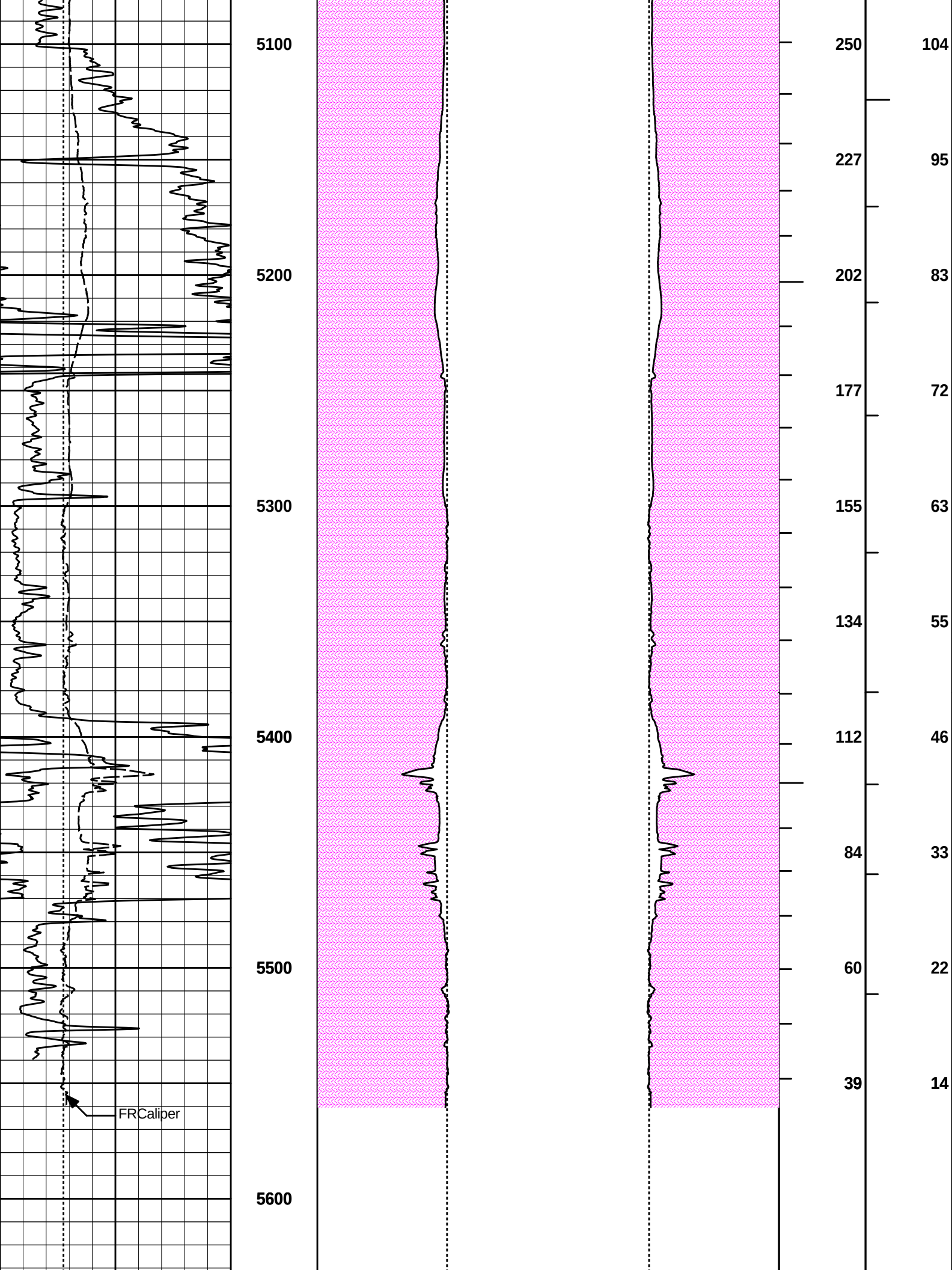












HALLIBURTON

Plot Time: 01-Jun-12 12:13:02
Plot Range: 770 ft to 5643.42 ft
Data: WRIGLEY_1_11_SW\Well Based\CASING\
Plot File: \\LOCAL\WRIGLEY_1_11_SW\0001 SP-GTET-DSN-SDL-IDT-ICT-WSTT-ACRT-CHIPOROI\AHV_2_IQ_LIB

ANNULAR HOLE VOLUME PLOT

COMPANY	SANDRIDGE ENERGY		
WELL	WRIGLEY 1-11 SWD		
FIELD	WILDCAT		
COUNTY	HARPER	STATE	KANSAS
HALLIBURTON		SPECTRAL DENSITY DUAL SPACED NEUTRON LOG	