

HALLIBURTON

SPECTRAL DENSITY
DUAL SPACED NEUTRON

PALOMINO PETROLEUM, INC.										PALOMINO PETROLEUM, INC.										SPECTRAL DENSITY DUAL SPACED NEUTRON									
DANFIELD21 No.1										DANFIELD21 No.1																			
None (Wildcat)										None (Wildcat)																			
SCOTT										SCOTT																			
KANSAS										KANSAS																			
COMPANY										COMPANY																			
WELL										WELL																			
FIELD										FIELD																			
COUNTY										COUNTY																			
STATE										STATE																			
Permanent Datum										GL										Elev.: K.B.									
Log measured from										KB										D.F.									
Drilling measured from										KB										G.L.									
Date										28-Sep-13																			
Run No.										ONE																			
Depth - Driller										5045.00 ft																			
Depth - Logger										5030.0 ft																			
Bottom - Logged Interval										5001.0 ft																			
Top - Logged Interval										200.0 ft																			
Casing - Driller										8.625 in @ 218.0 ft										@									
Casing - Logger										217.0 ft																			
Bit Size										7.875 in										@									
Type Fluid in Hole										CHEMICAL																			
Density										9.2 ppg										51.00 s/qt									
PH										10.00 pH										8.8 cpm									
Source of Sample										FLOWLINE																			
Rm @ Meas. Temperature										0.700 ohmm @ 69.00 degF										@									
Rmf @ Meas. Temperature										0.56 ohmm @ 69.00 degF										@									
Rmc @ Meas. Temperature										0.840 ohmm @ 69.00 degF										@									
Source Rmf										CHART										CHART									
Rm @ BHT										0.40 ohmm @ 127.5 degF										@									
Time Since Circulation										4.4 hr																			
Time on Bottom										28-Sep-13 12:53																			
Max. Rec. Temperature										127.5 degF @ 5030.0 ft										@									
Equipment										10549598										ODESSA									
Recorded By										ALEXANDER MURILLO																			
Witnessed By										RYAN SEIB																			

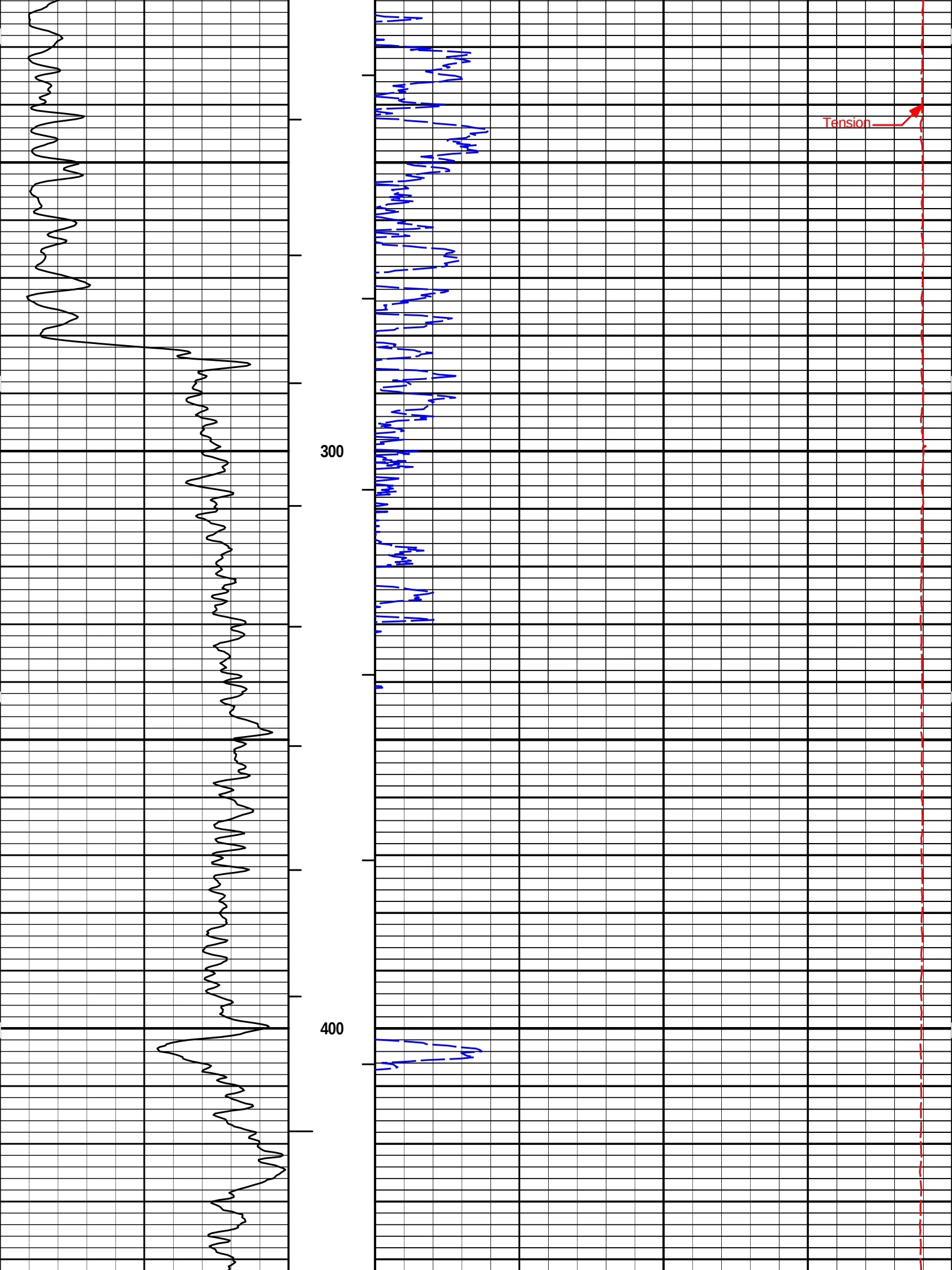
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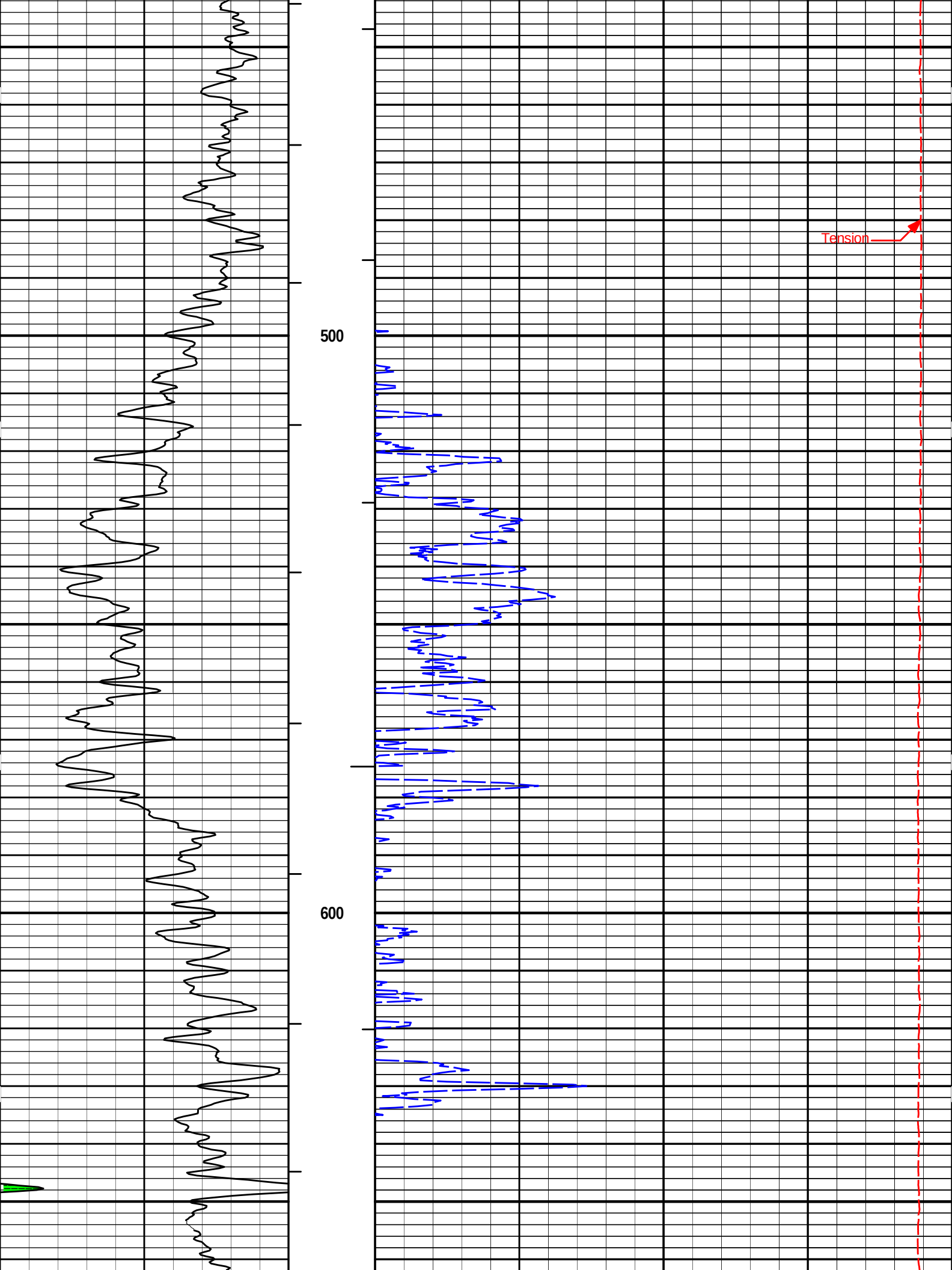
Service Ticket No.: 900769718					API Serial No.: 15-171-20980-00-00					PGM Version: WL INSITE R3.8.11 (Build 5)				
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE							RESISTIVITY SCALE CHANGES							
Date	Sample No.						Type Log	Depth	Scale Up Hole		Scale Down Hole			
Depth-Driller														
Type Fluid 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				
Serial No.	10958653		Serial No.			Serial No.	88759186		Serial No.	10763388				
Model No.	GTET		Model No.			Model No.	SDLT		Model No.	DSNT				
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.	24513B		Serial No.	DSN-429				
Distance to Source	18'		FWDA [Y/N]			Strength	1.5 Ci		Strength	15 Ci				

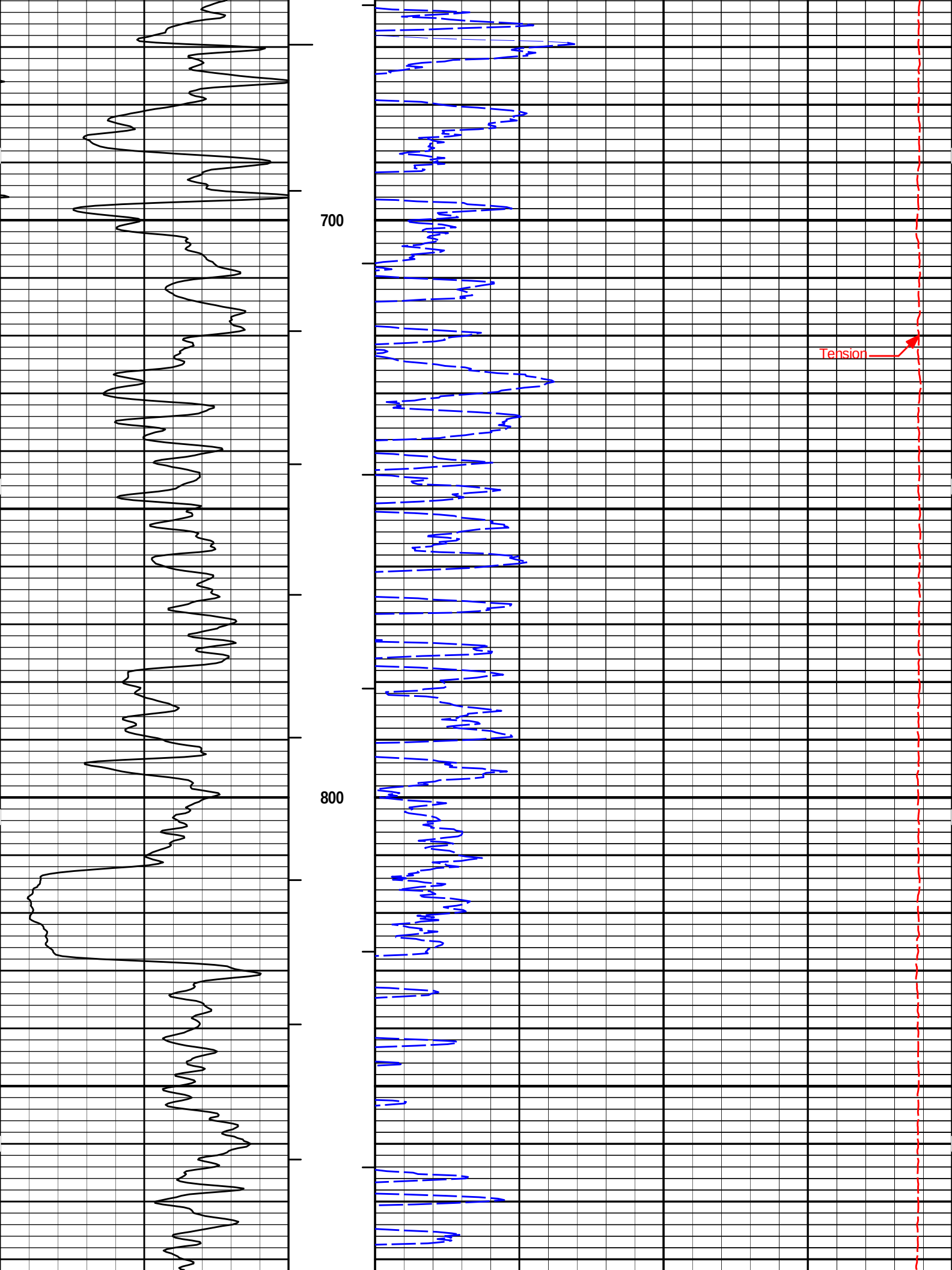
LOGGING DATA

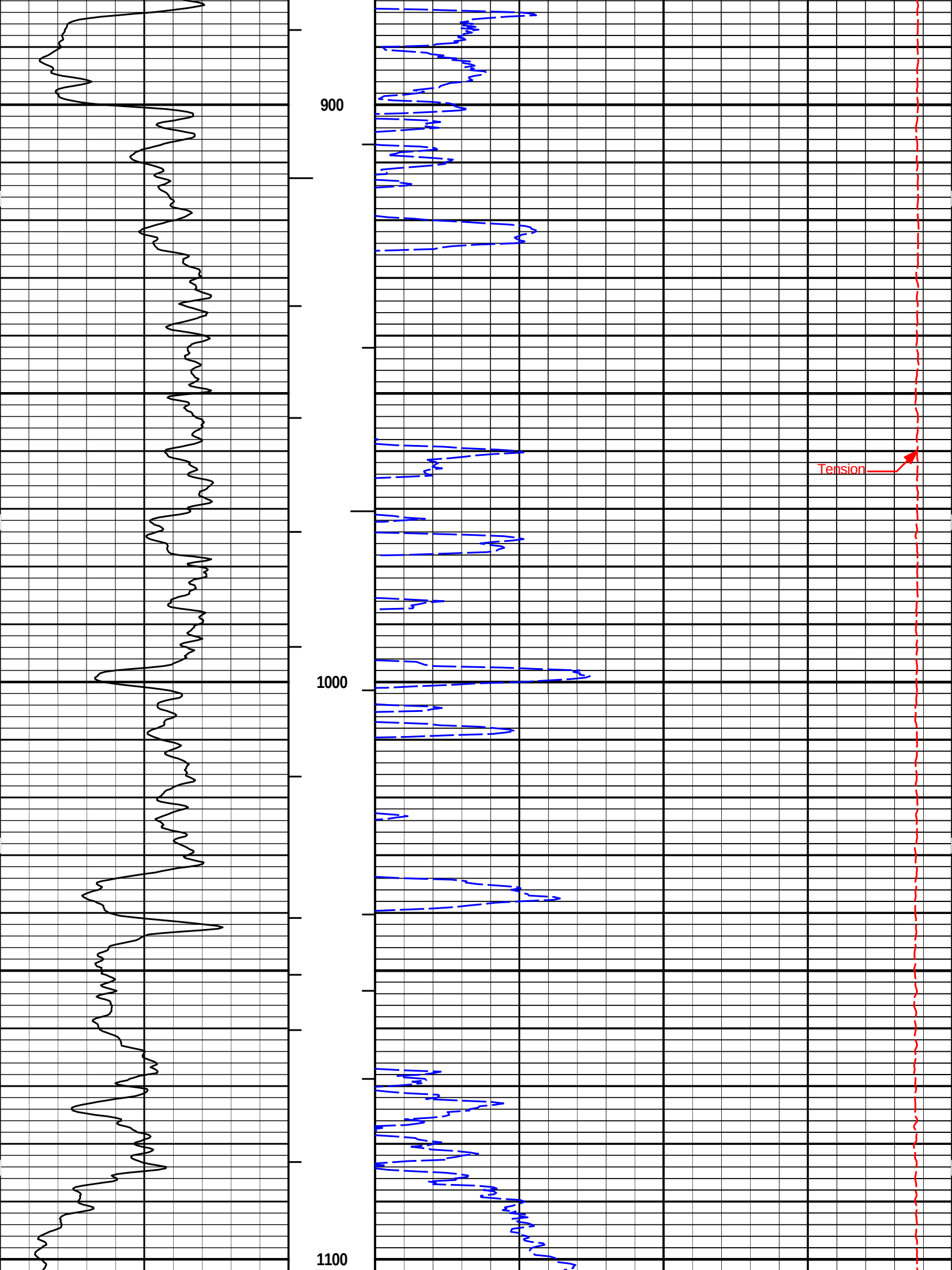
GENERAL			GAMMA		ACOUSTIC			DENSITY		NEUTRON	
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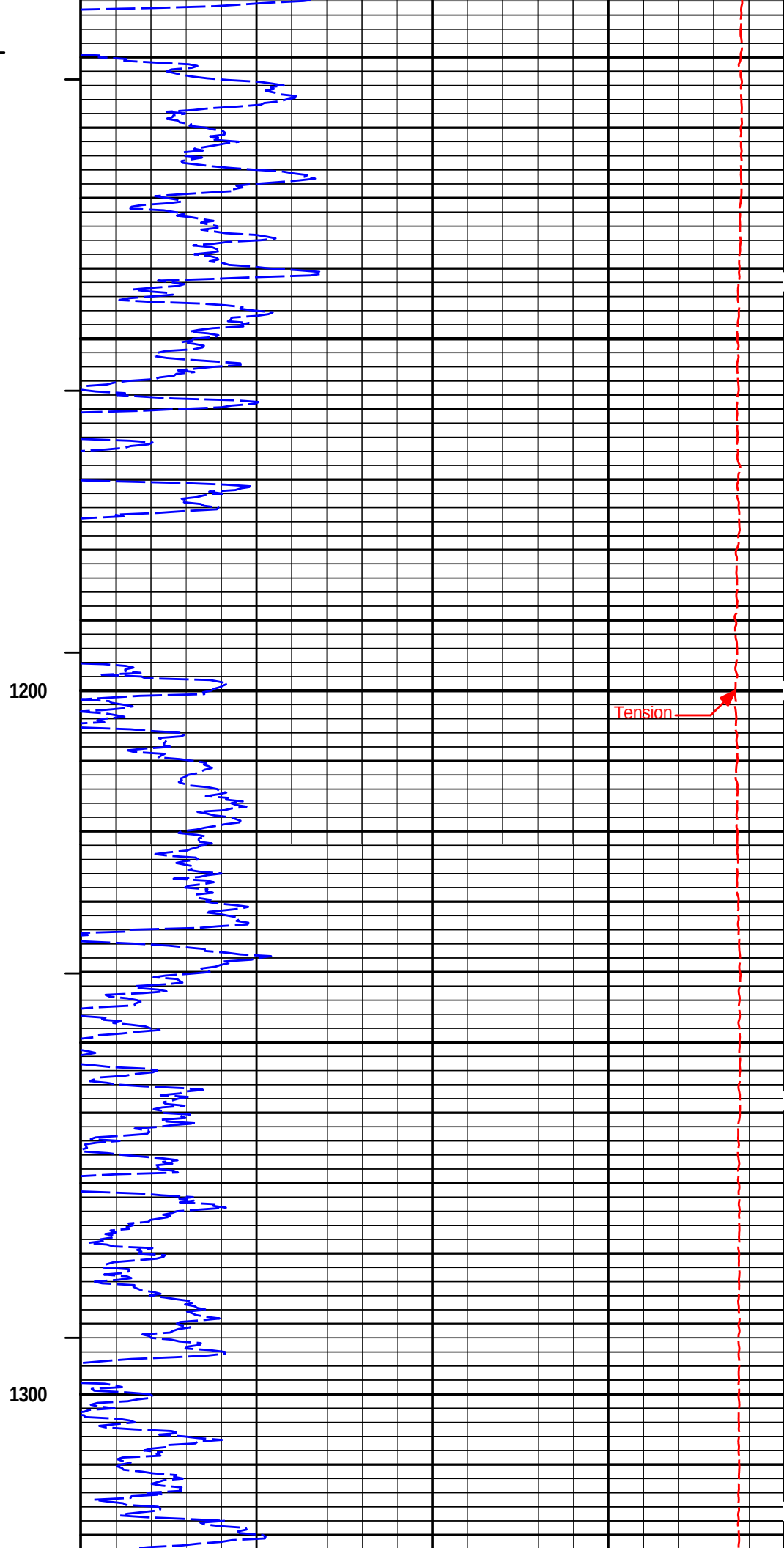
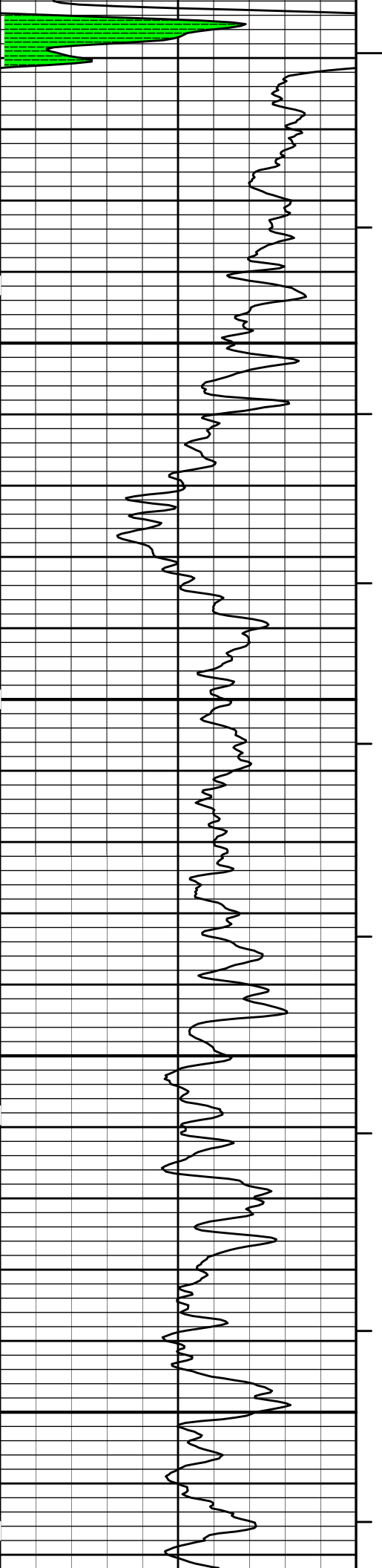
GENERAL			GAMMA		ACOUSTIC		DENSITY		NEUTRON					
Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix
No.	From	To	ft/min	L	R	L	R		L	R		L	R	
ONE	5030'	3600'	REC	0 API	150 API				30%	-10%	2.71 g/cc	30%	-10%	LIME
ON	3600'	200'	REC	0 API	150 API							30%	-10%	LIME
DIRECTIONAL INFORMATION														
Maximum Deviation @									KOP @					
Remarks: ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING														
GTET-DSNT-SDLT-ML-ACRT RAN IN COMBINATION														
DRILLER'S TD WAS NOT REACHED DUE TO BAD BOREHOLE CONDITIONS														
LCM WAS REPORTED TO BE PRESENT IN THE MUD (0.5 LB/BBL)														
NO REPEAT SECTION WAS PERFORMED PER CUSTOMER REQUEST														
WELLSITE COORDINATES: LAT 38*18'22.094" Deg N LONG -101*04'25.401" Deg W														
HES CREW: E. ORTIZ, E. CASTRO, D. LEON, H. GONZALEZ														
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES - ODESSA, TX - 800.844.8451														
HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.														
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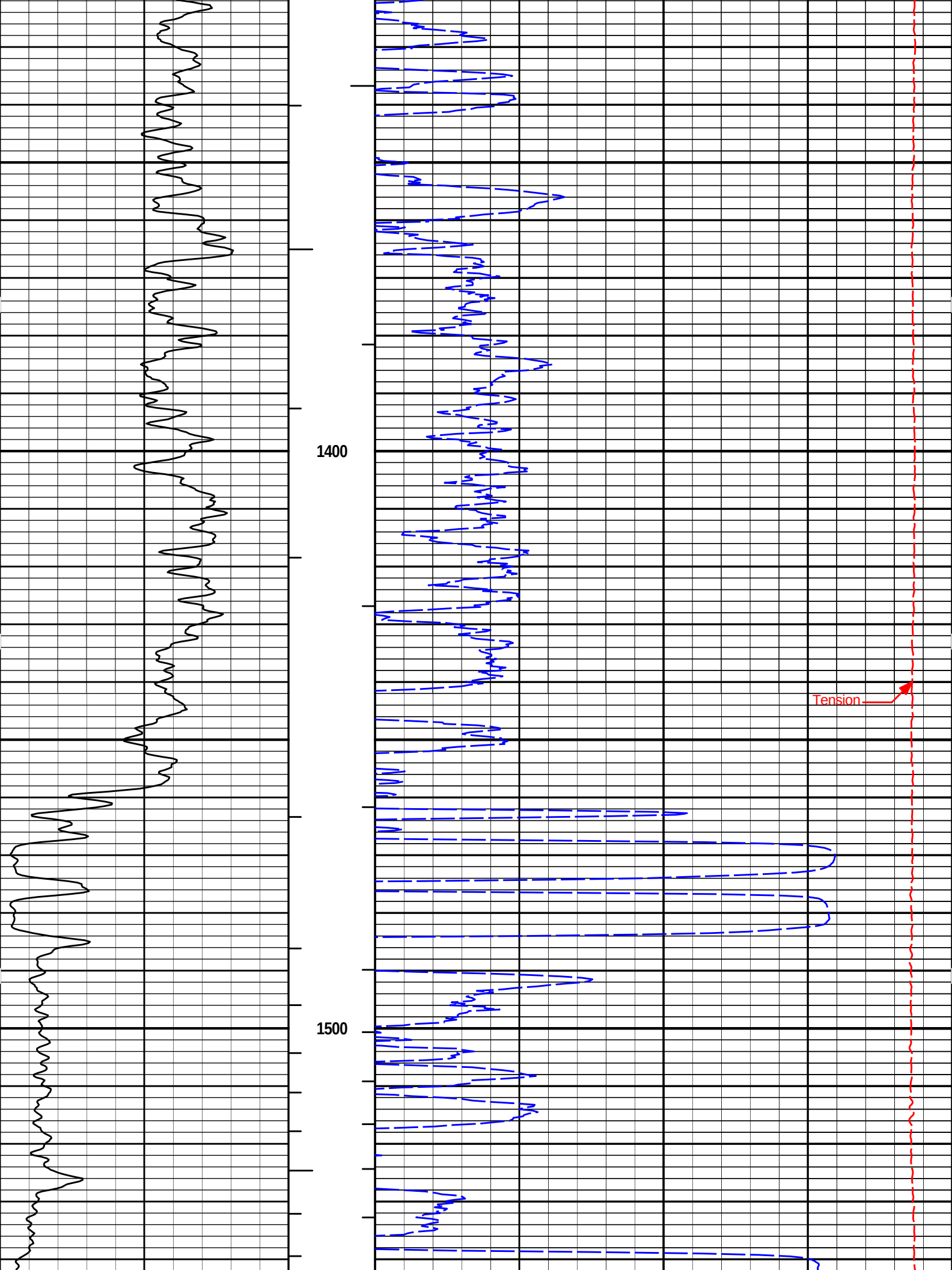


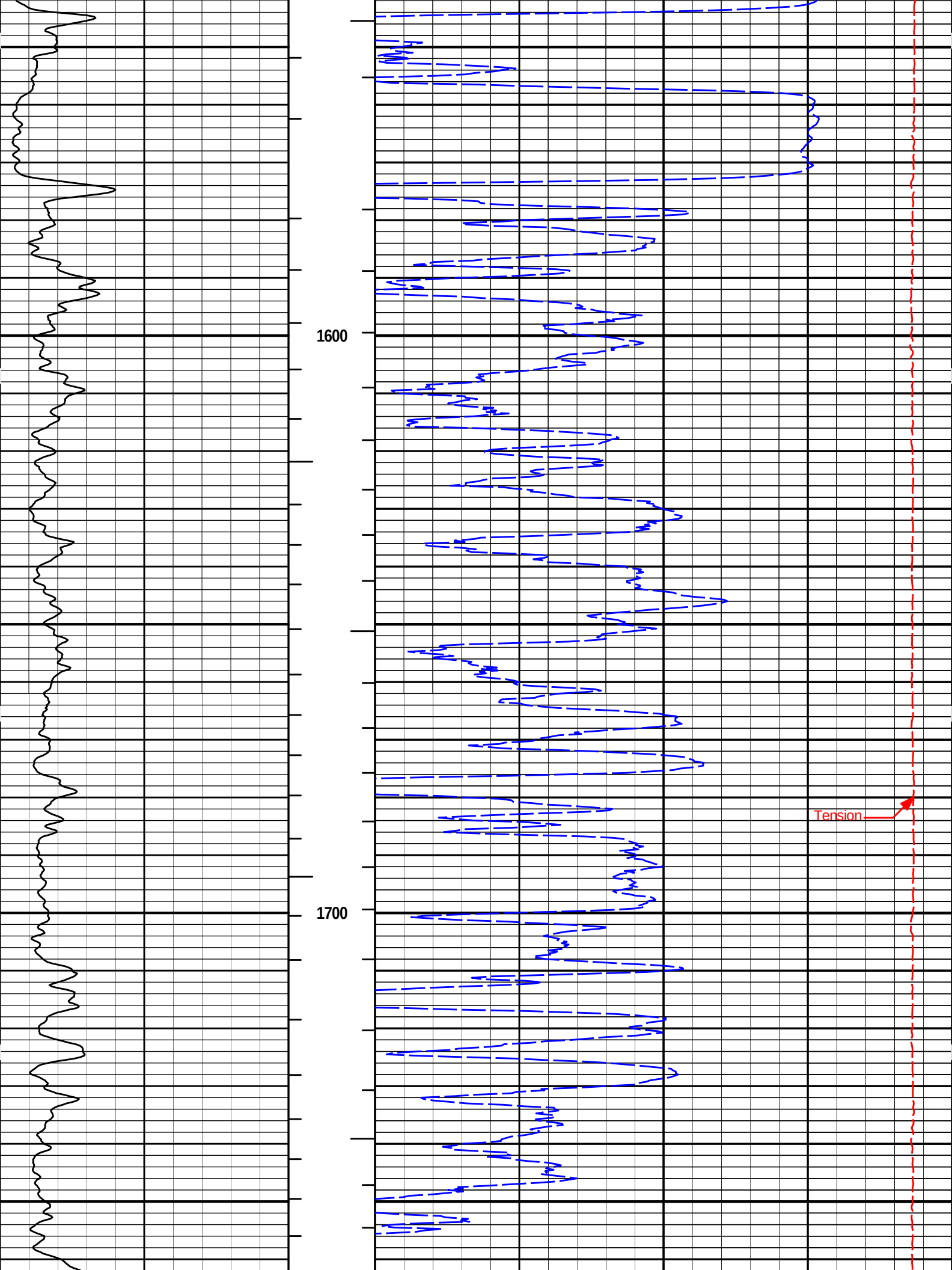


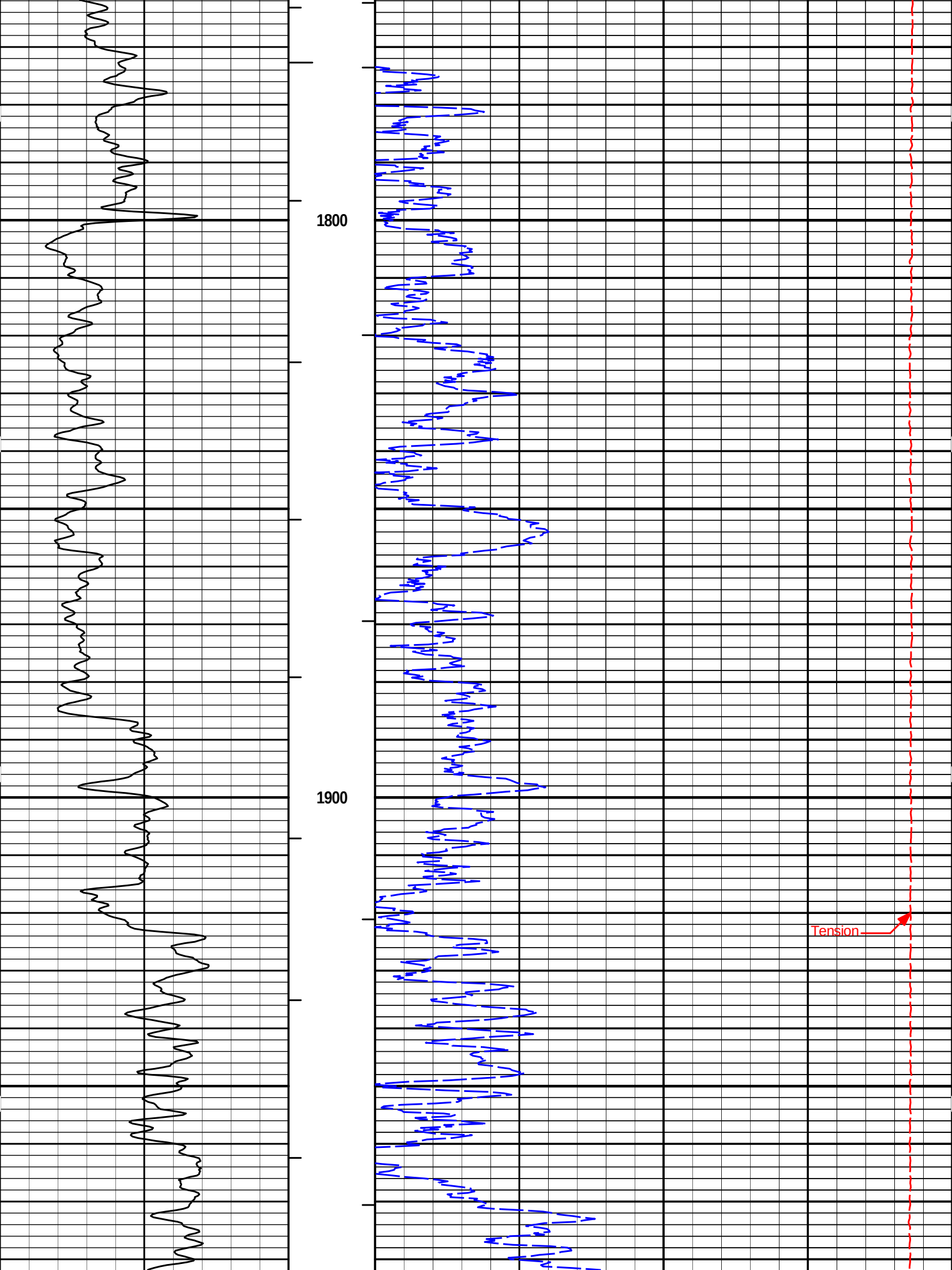


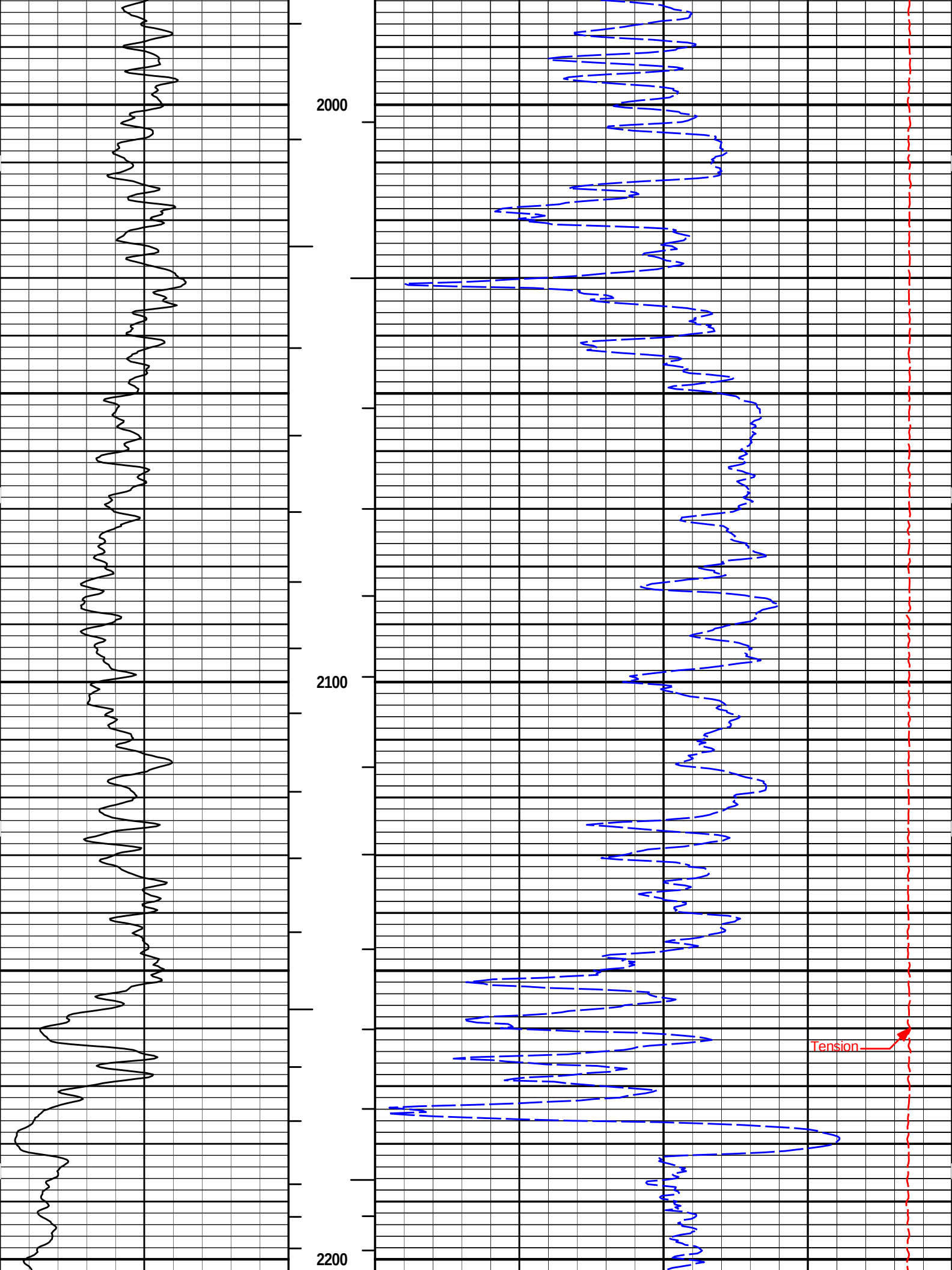


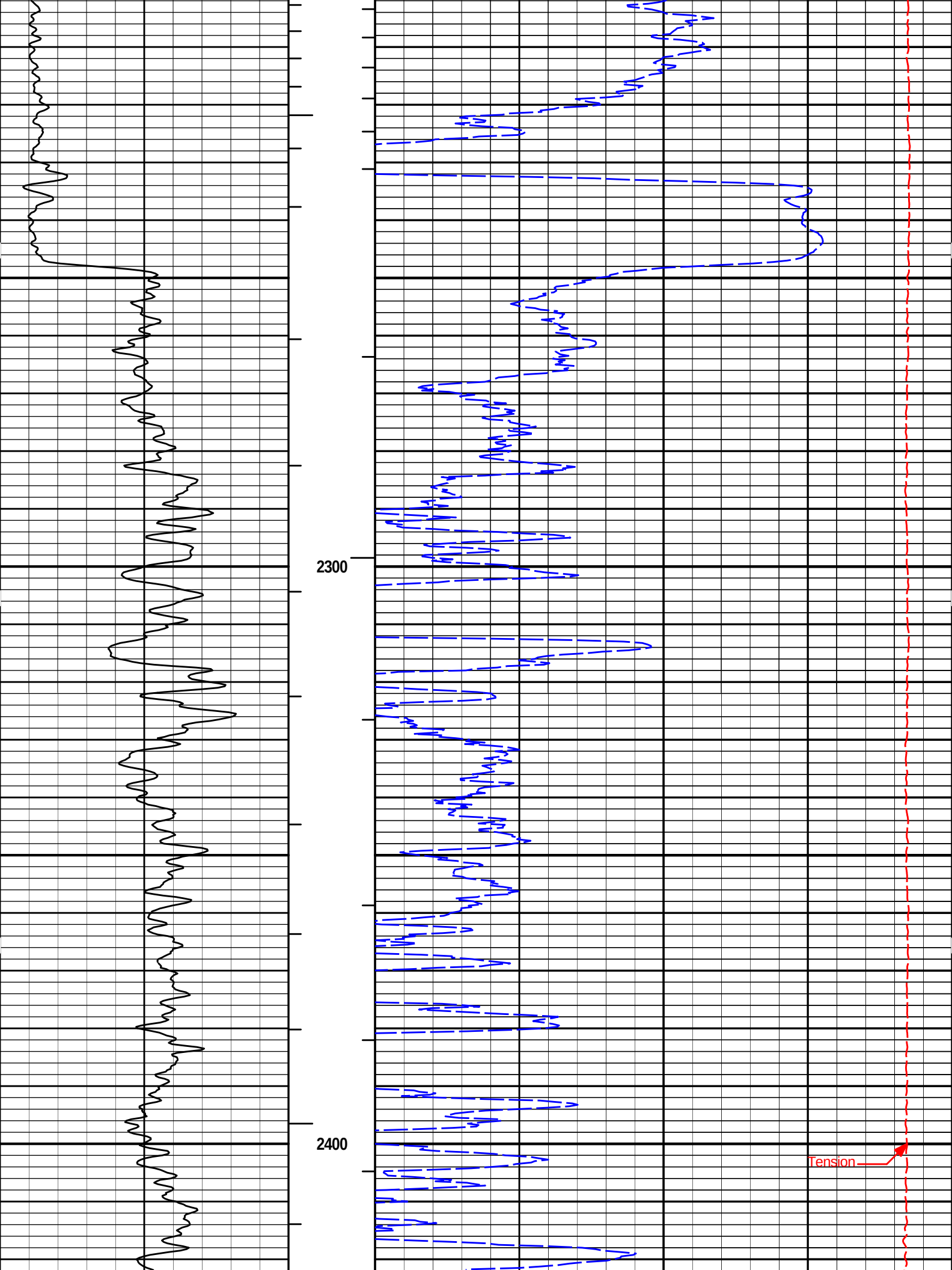


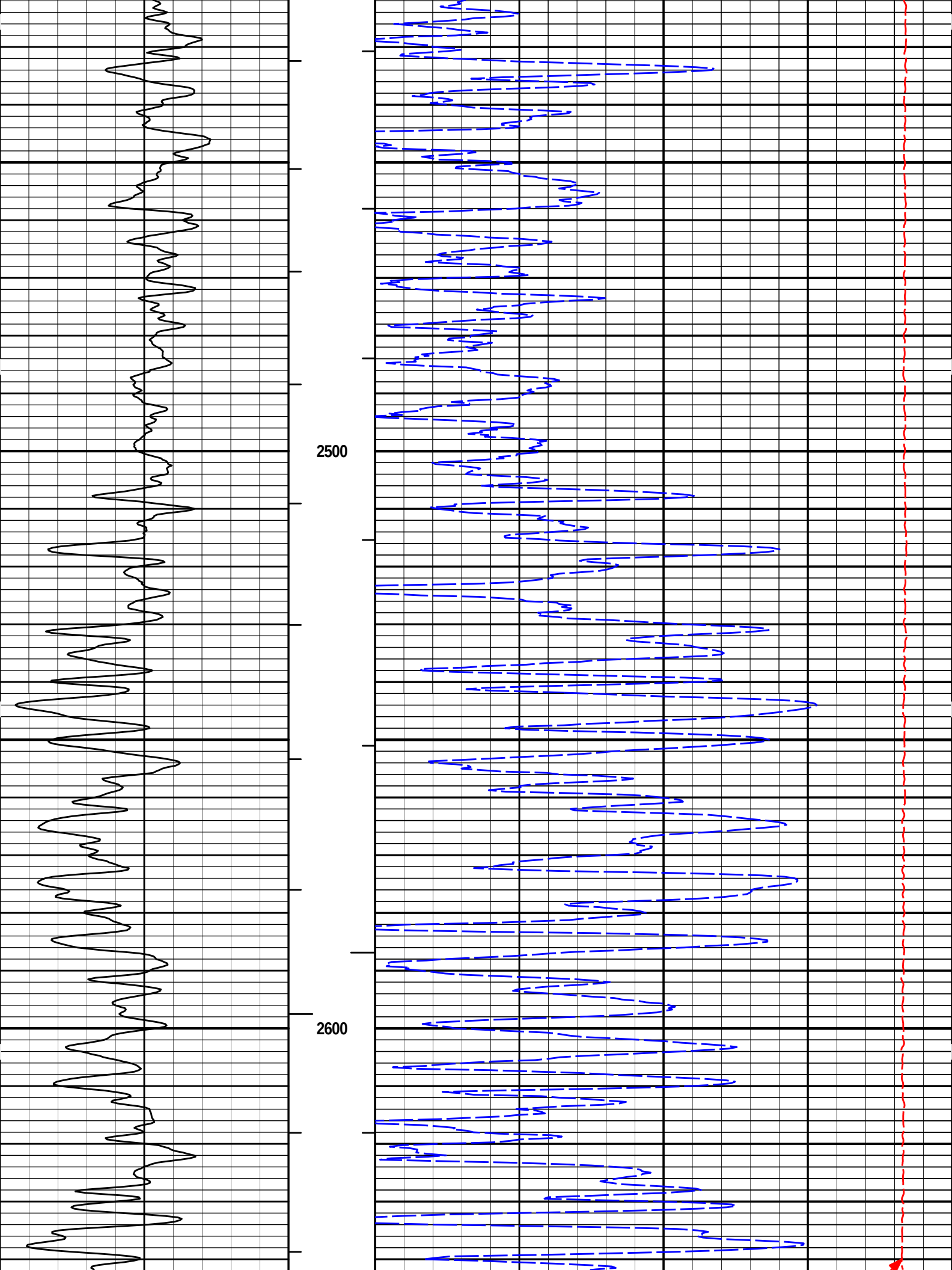


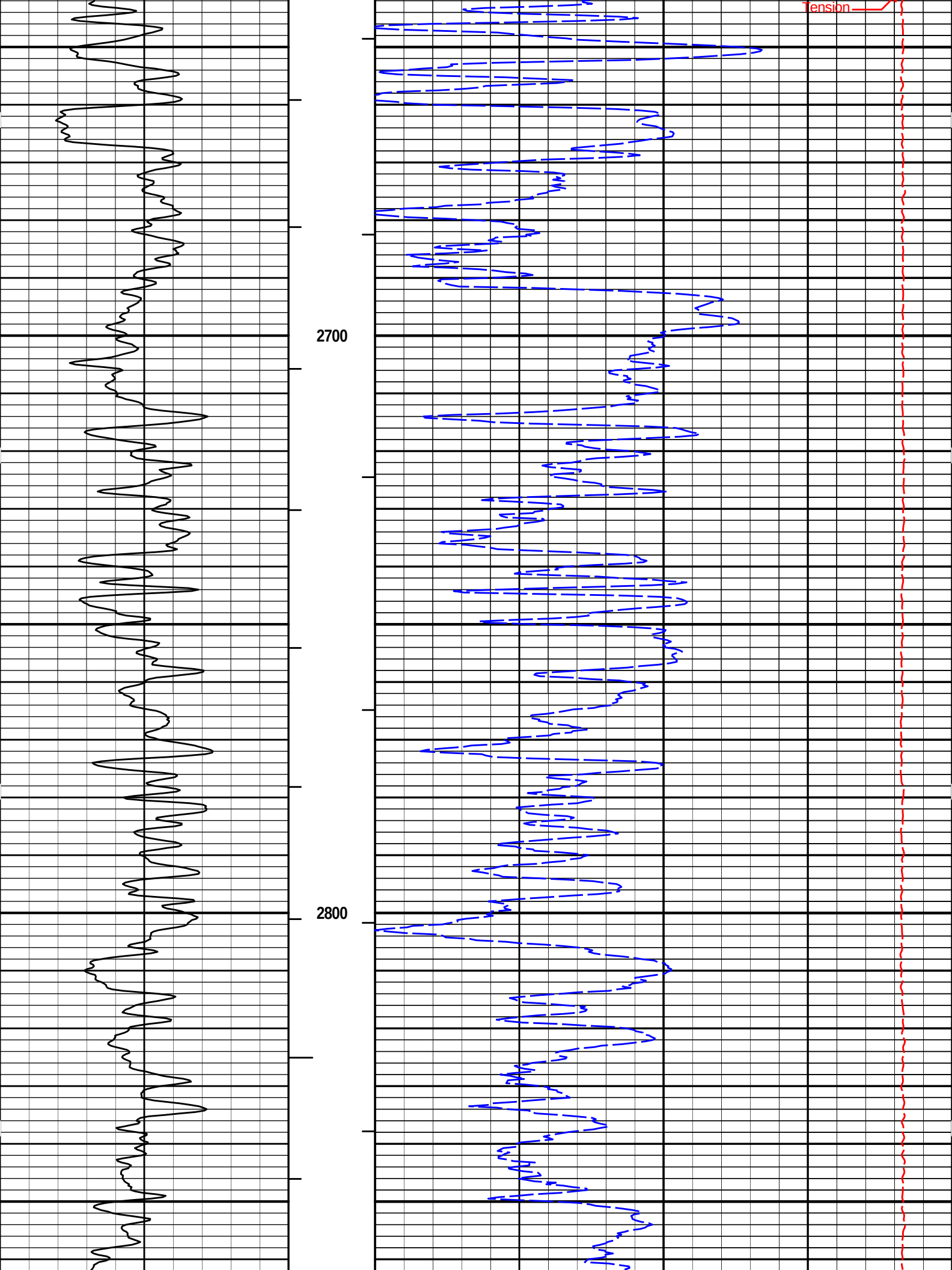


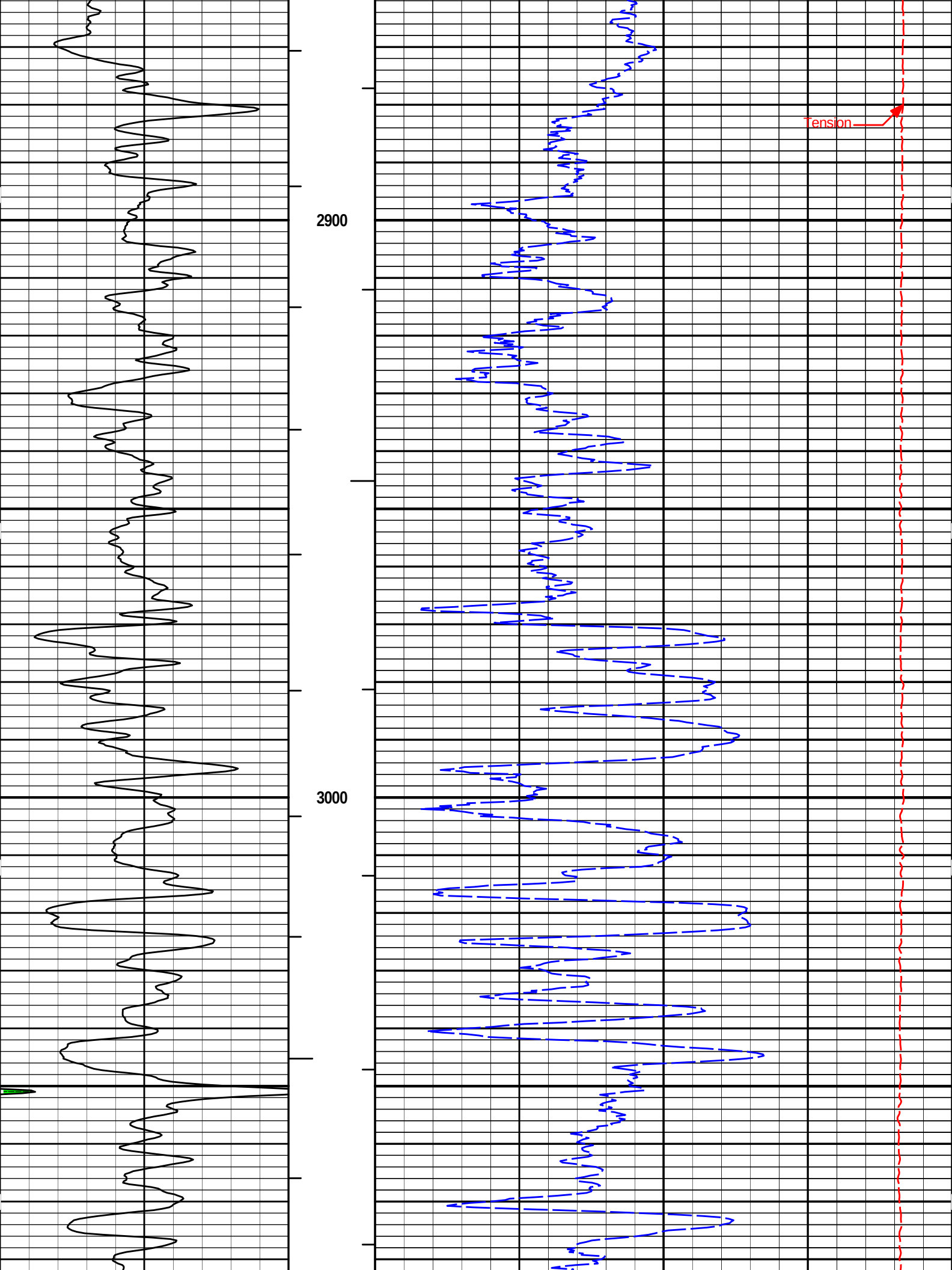


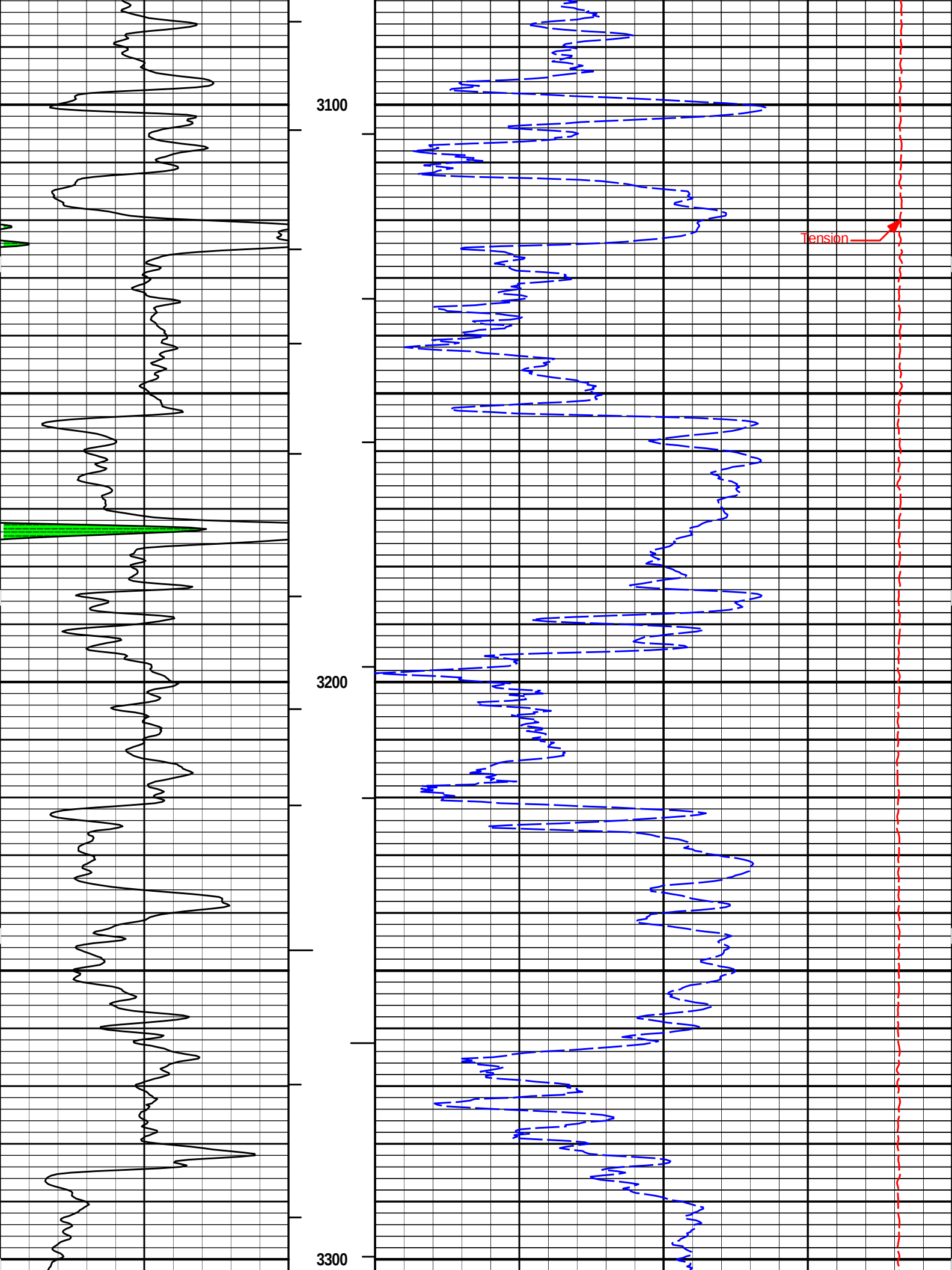


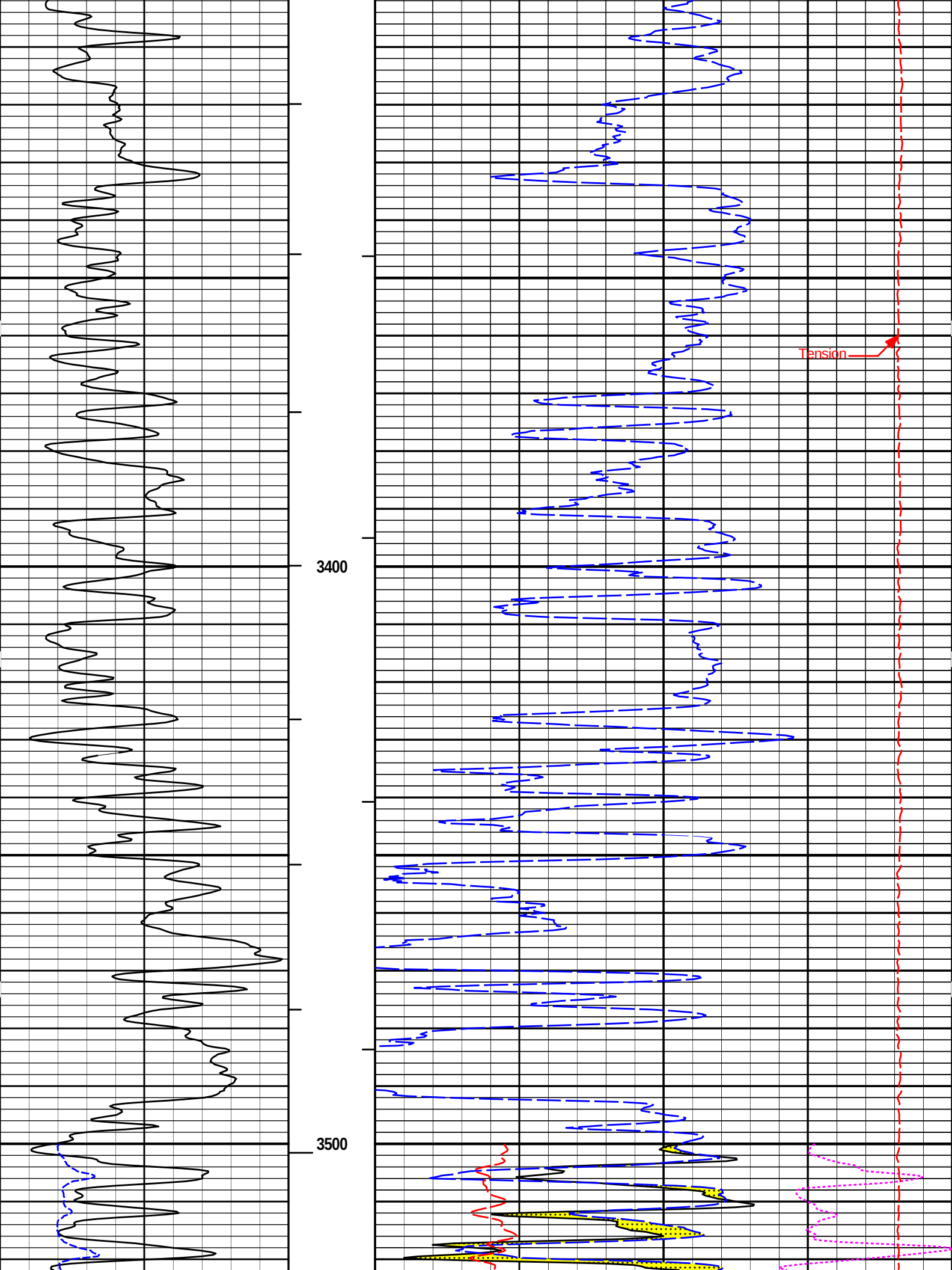


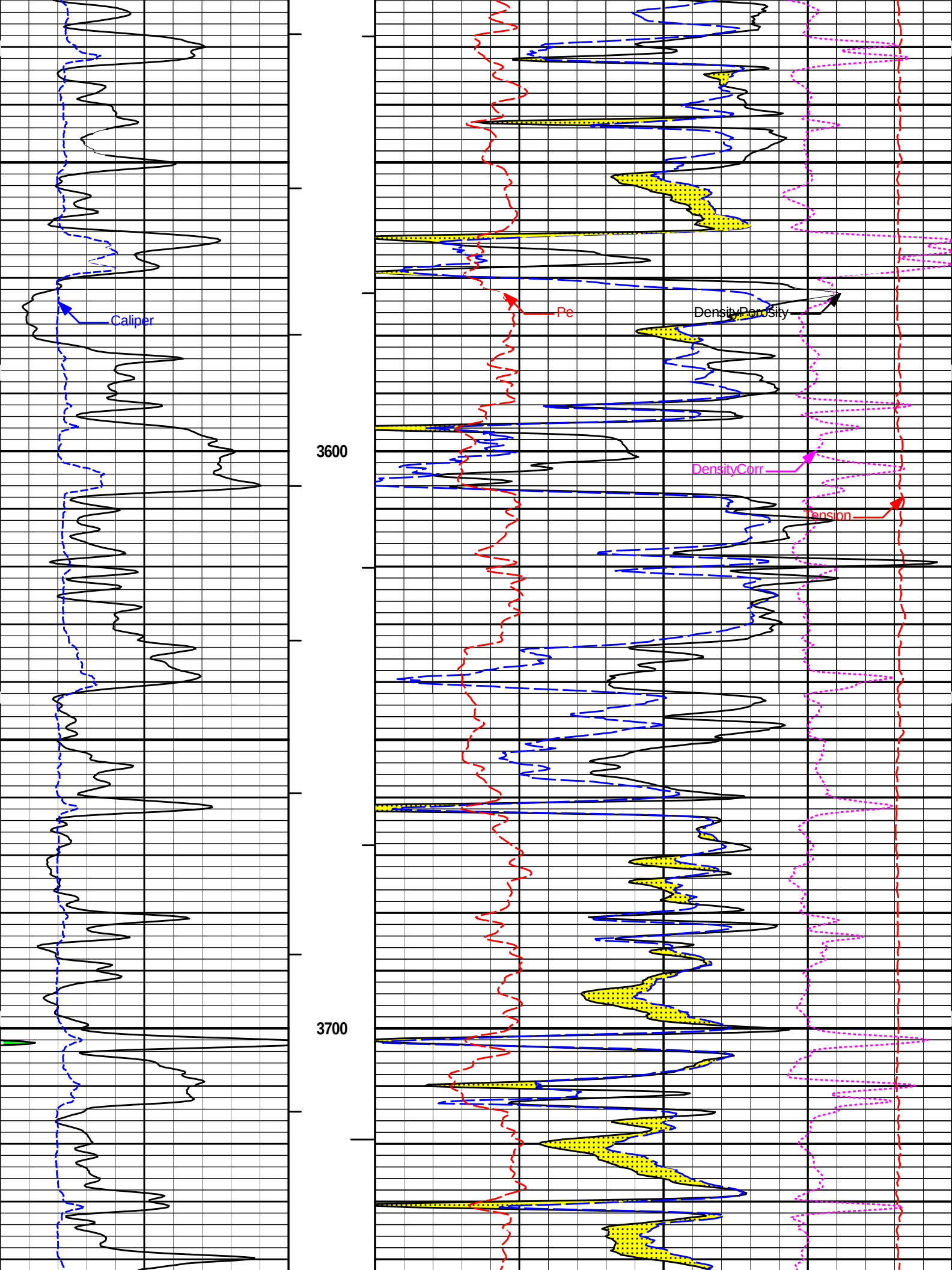


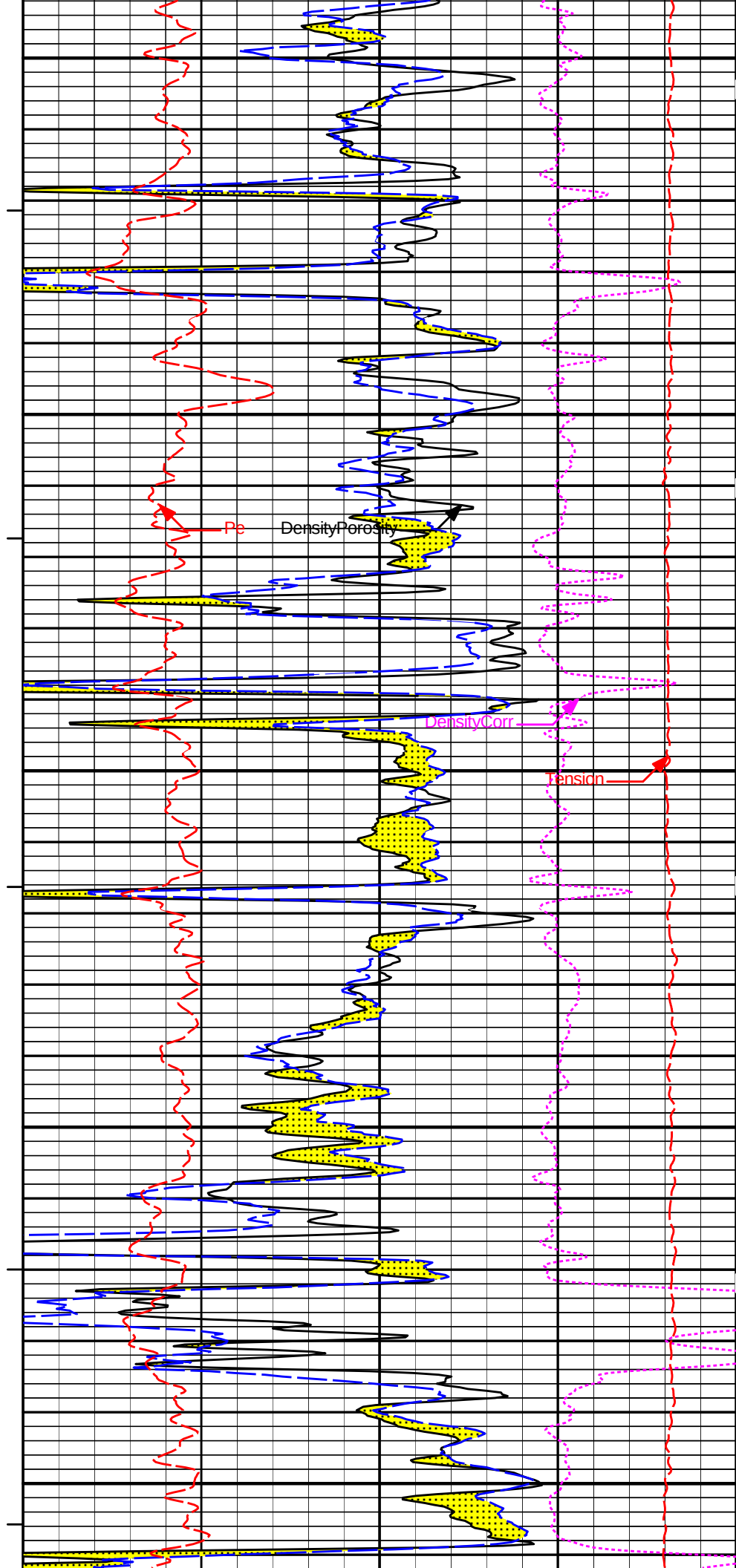
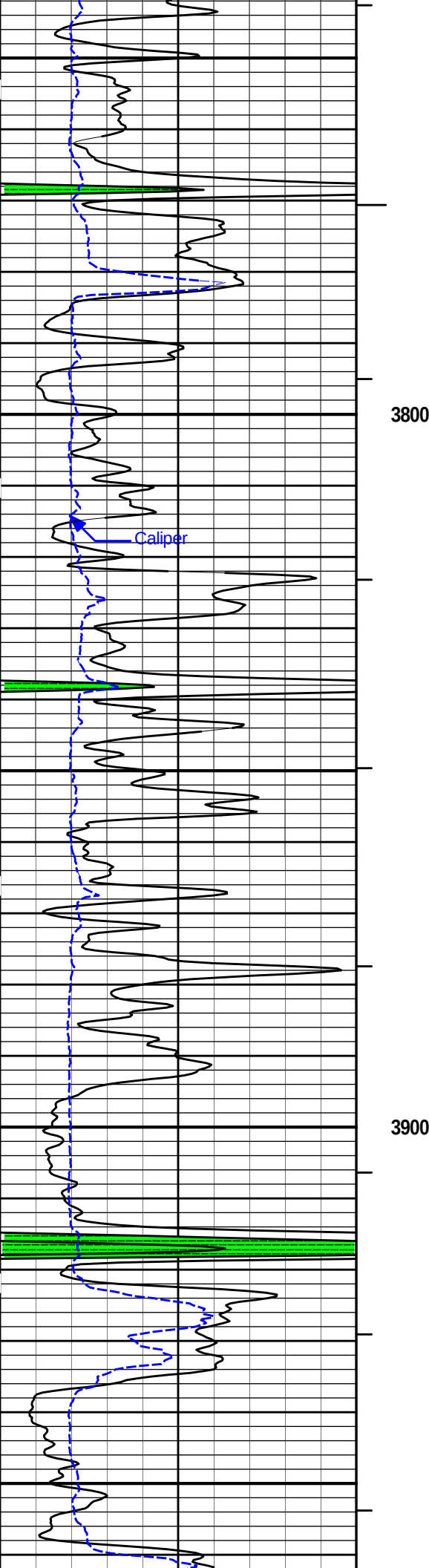


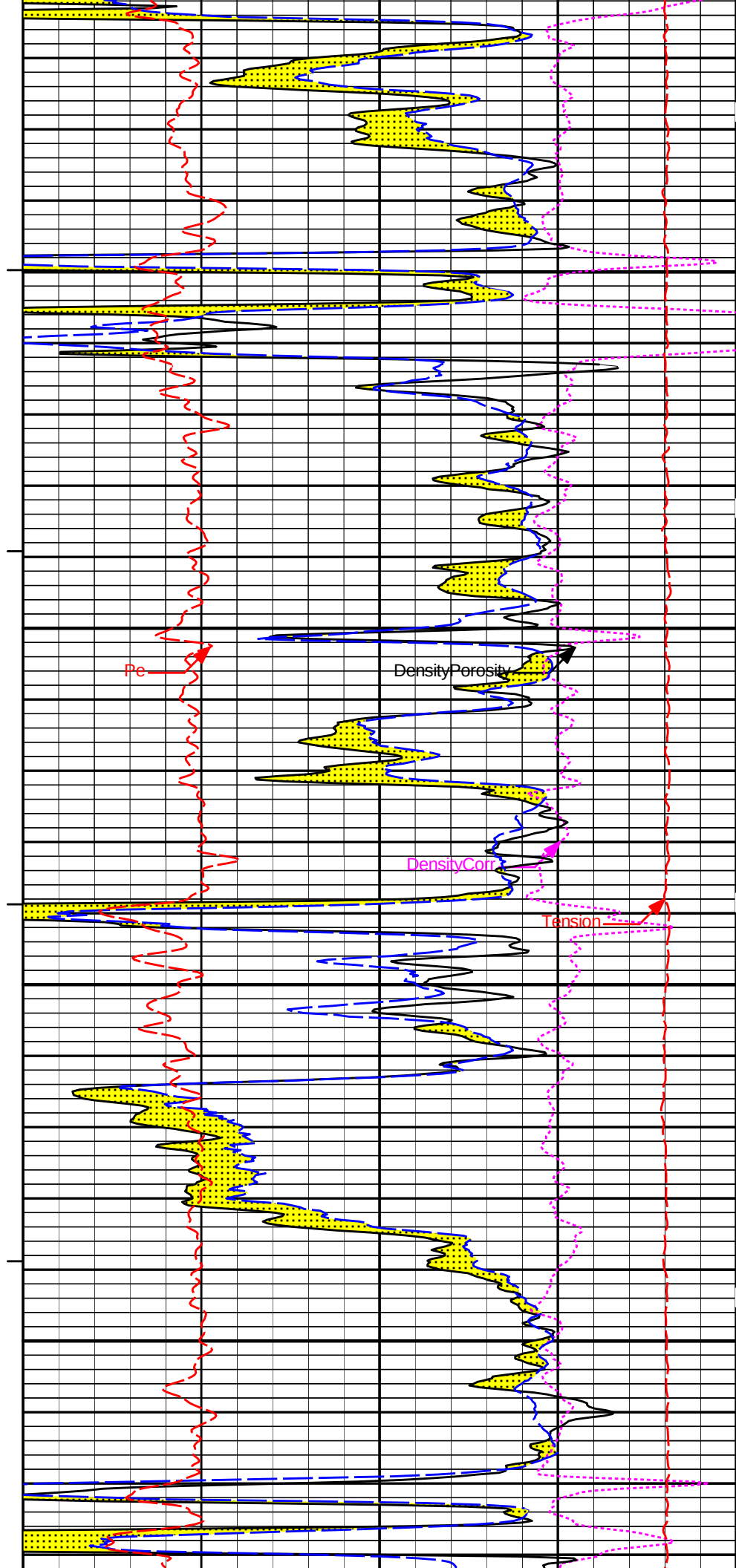
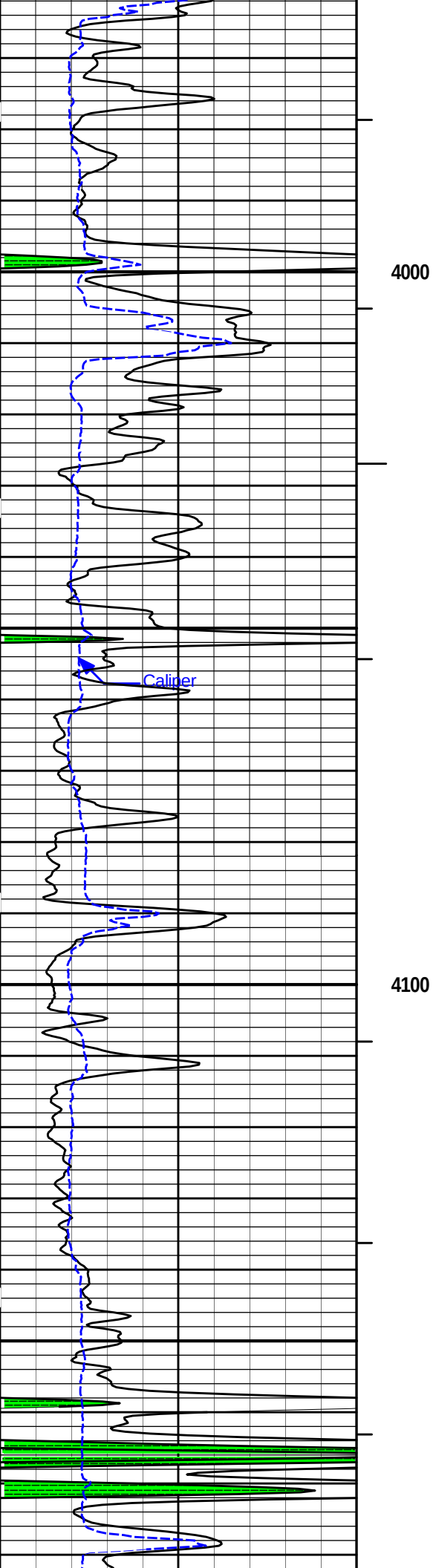


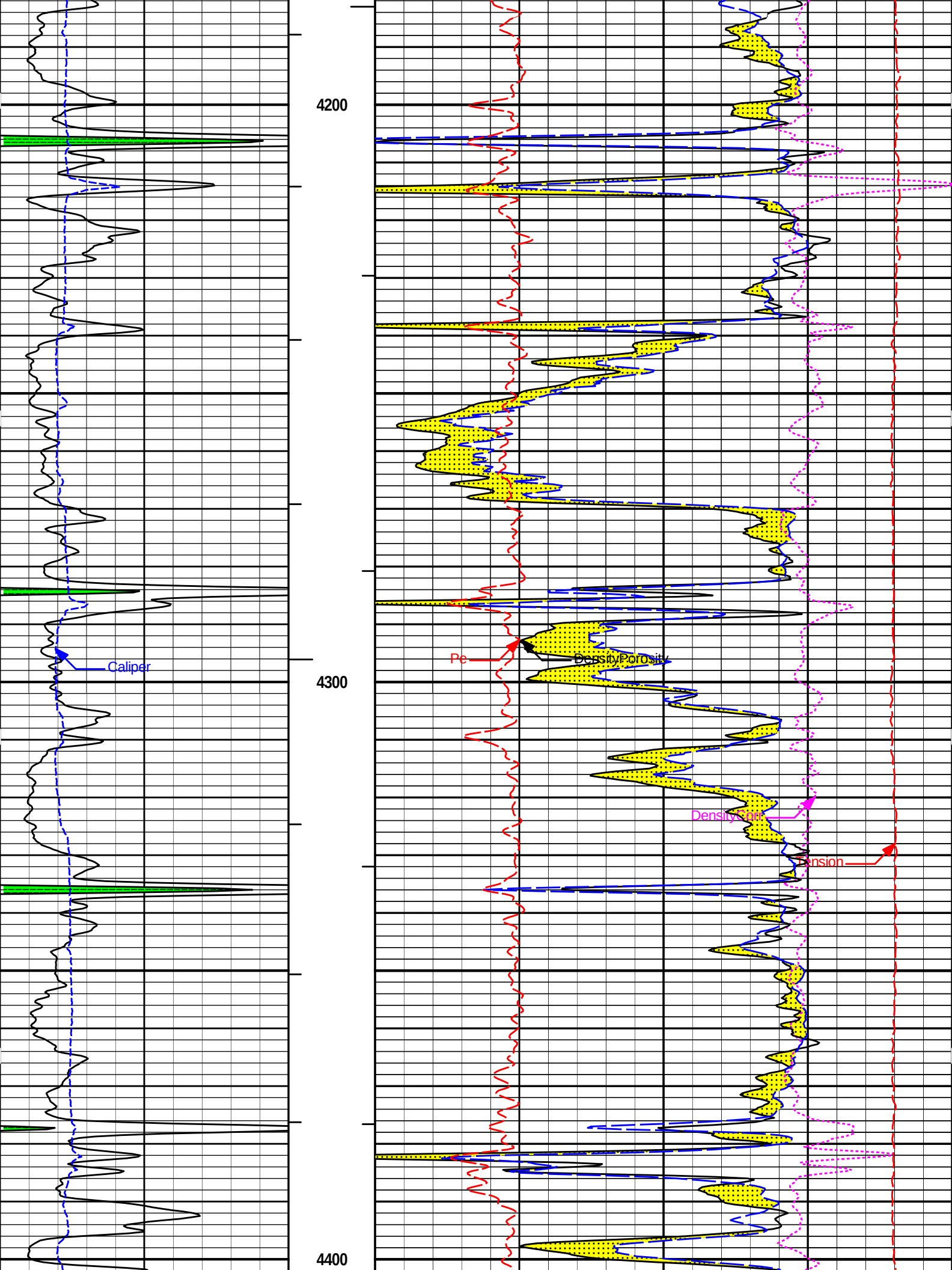


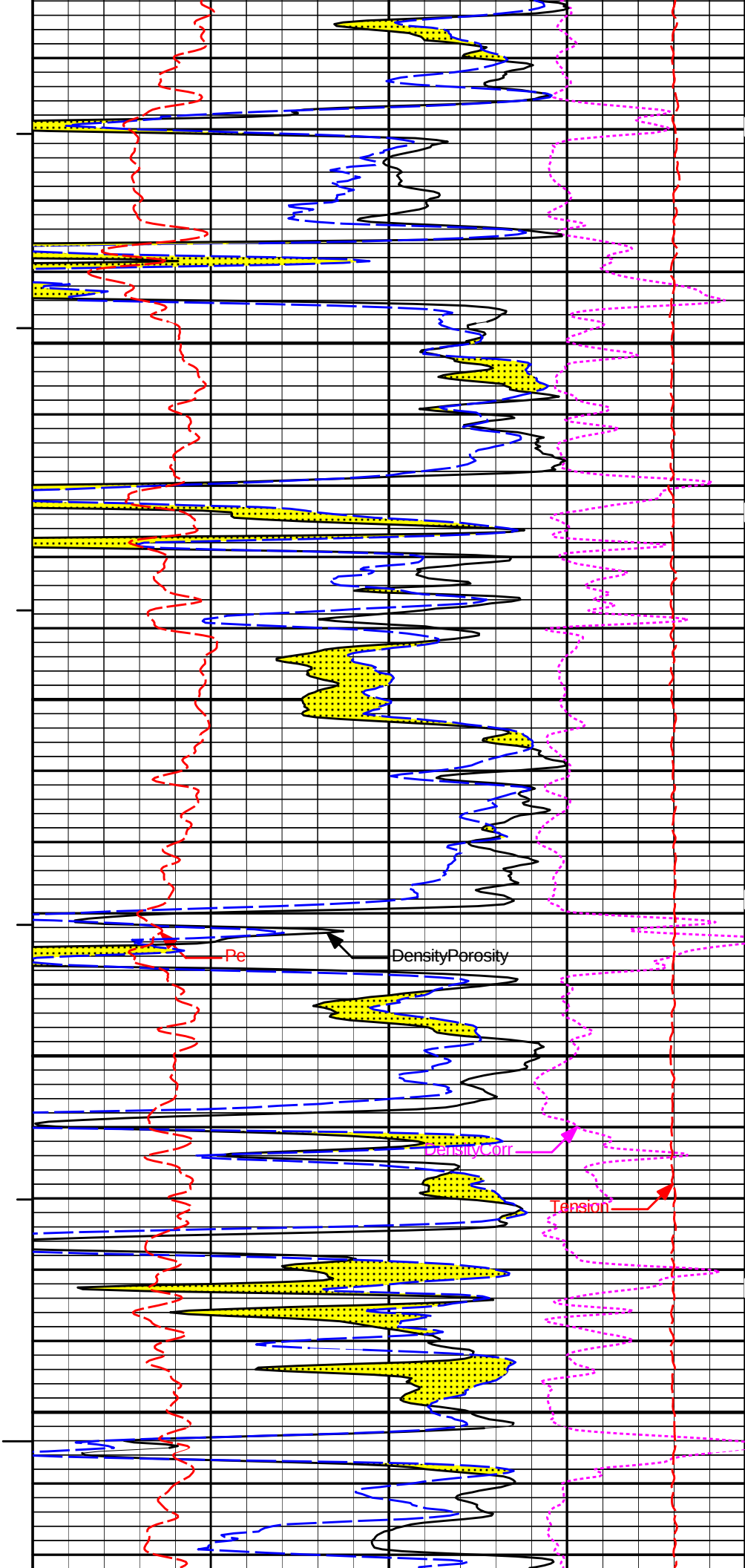
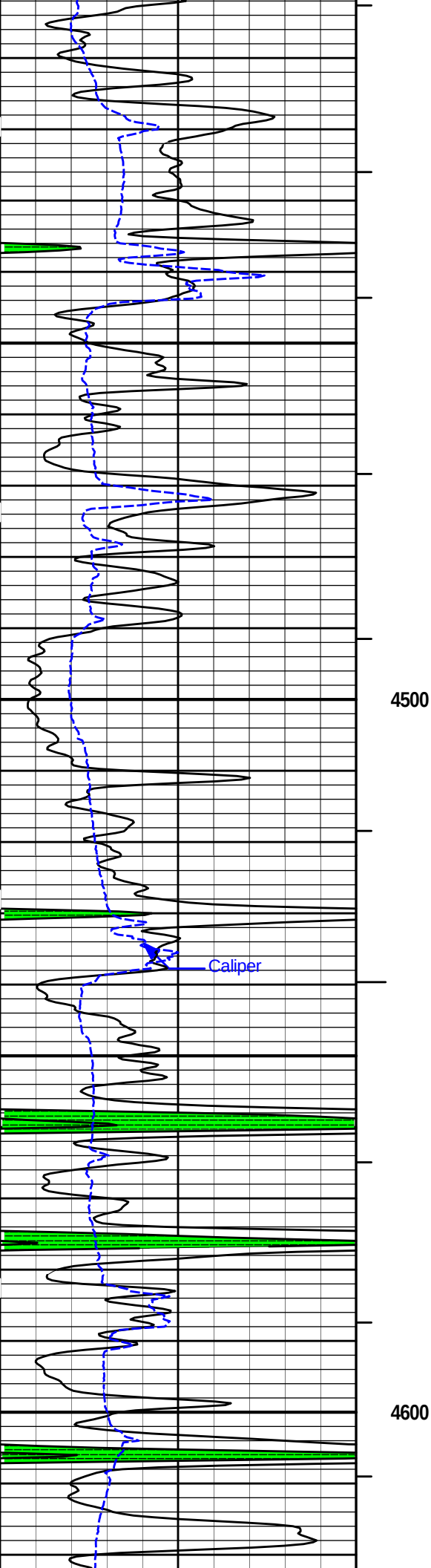


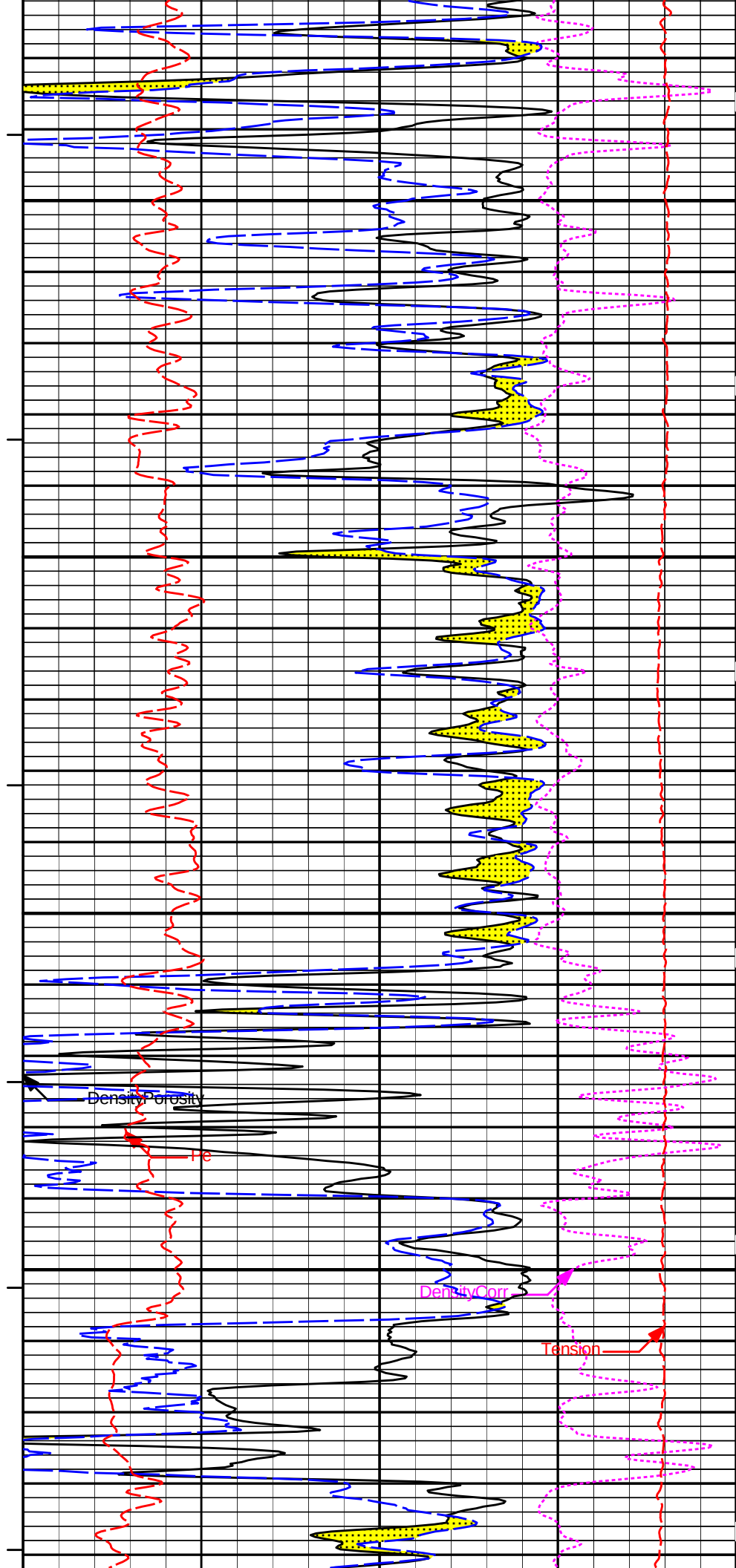
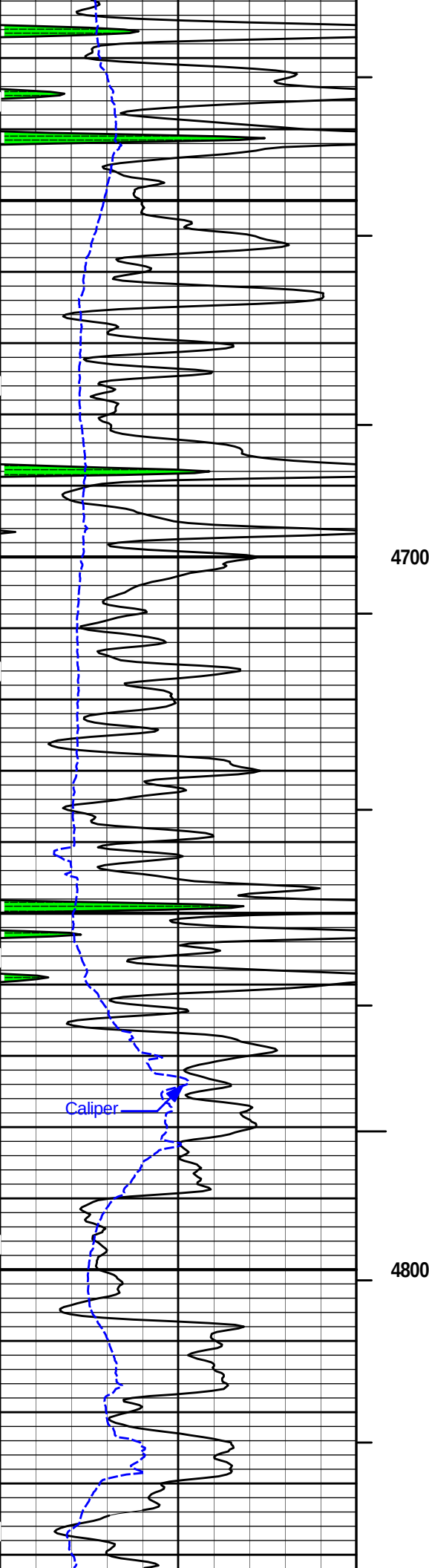


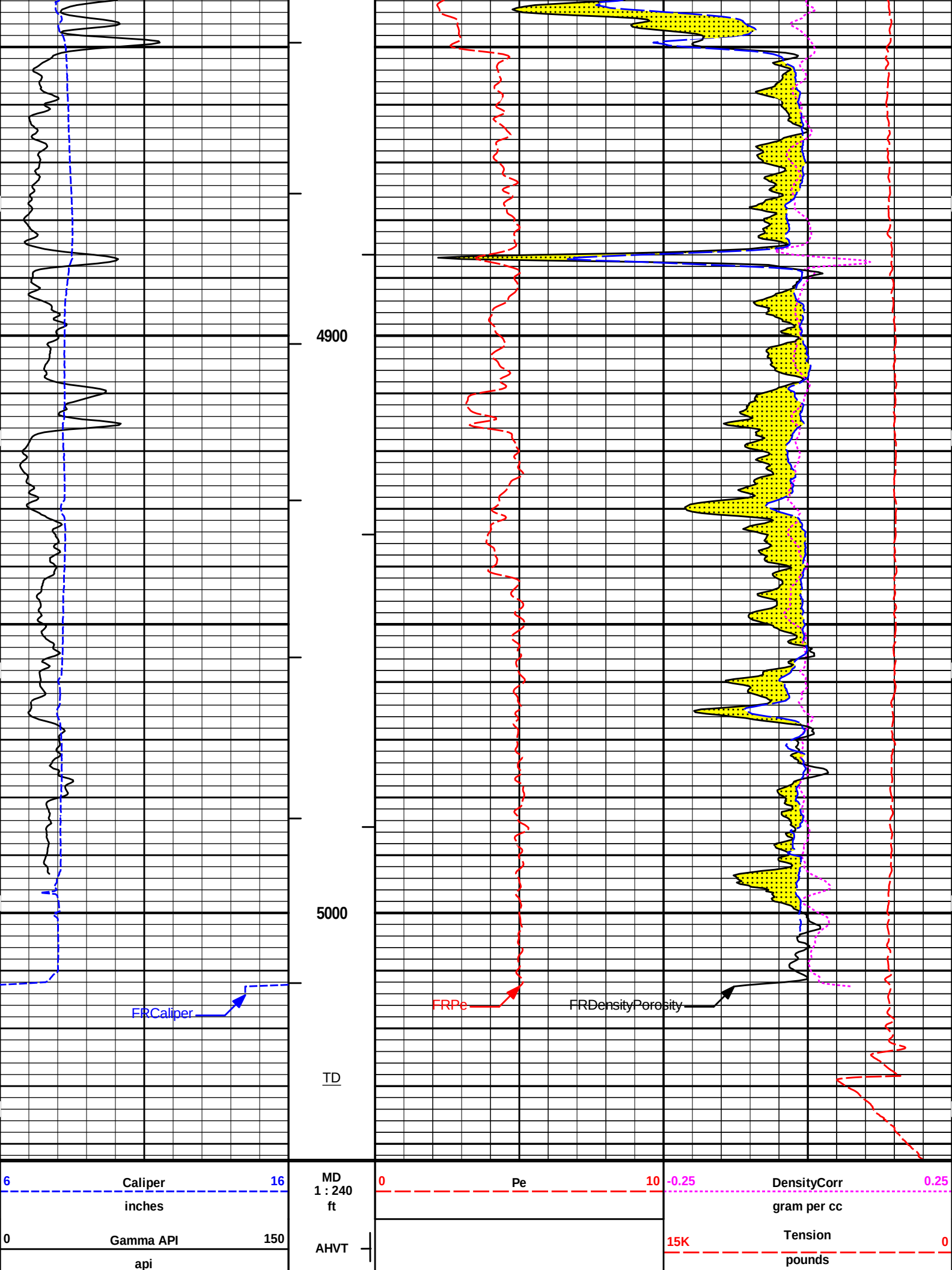












SHALE	BHVT	30	DensityPorosity	-10
			%	
		30	Neutron Porosity	-10
			%	
		CROSSOVER		

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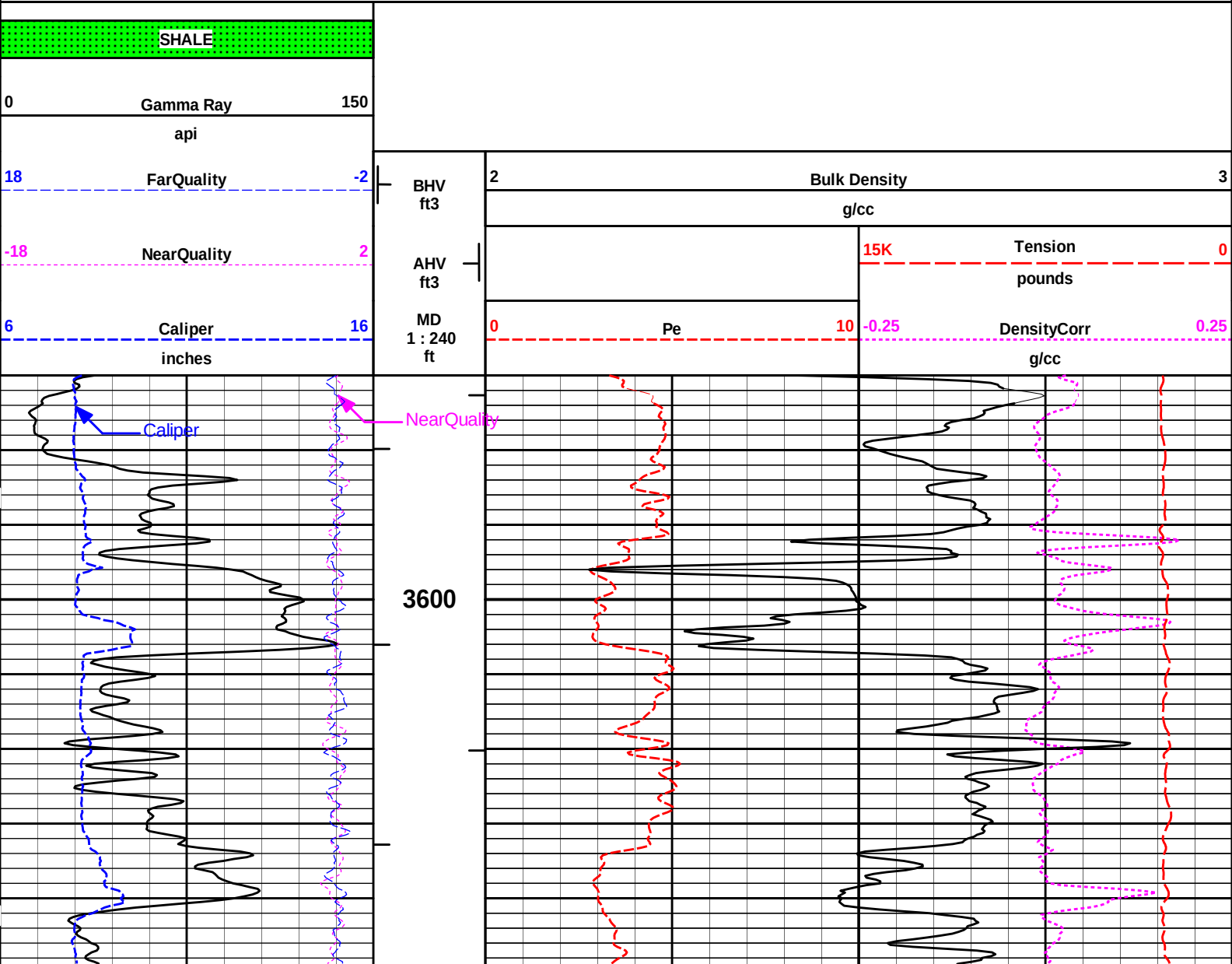
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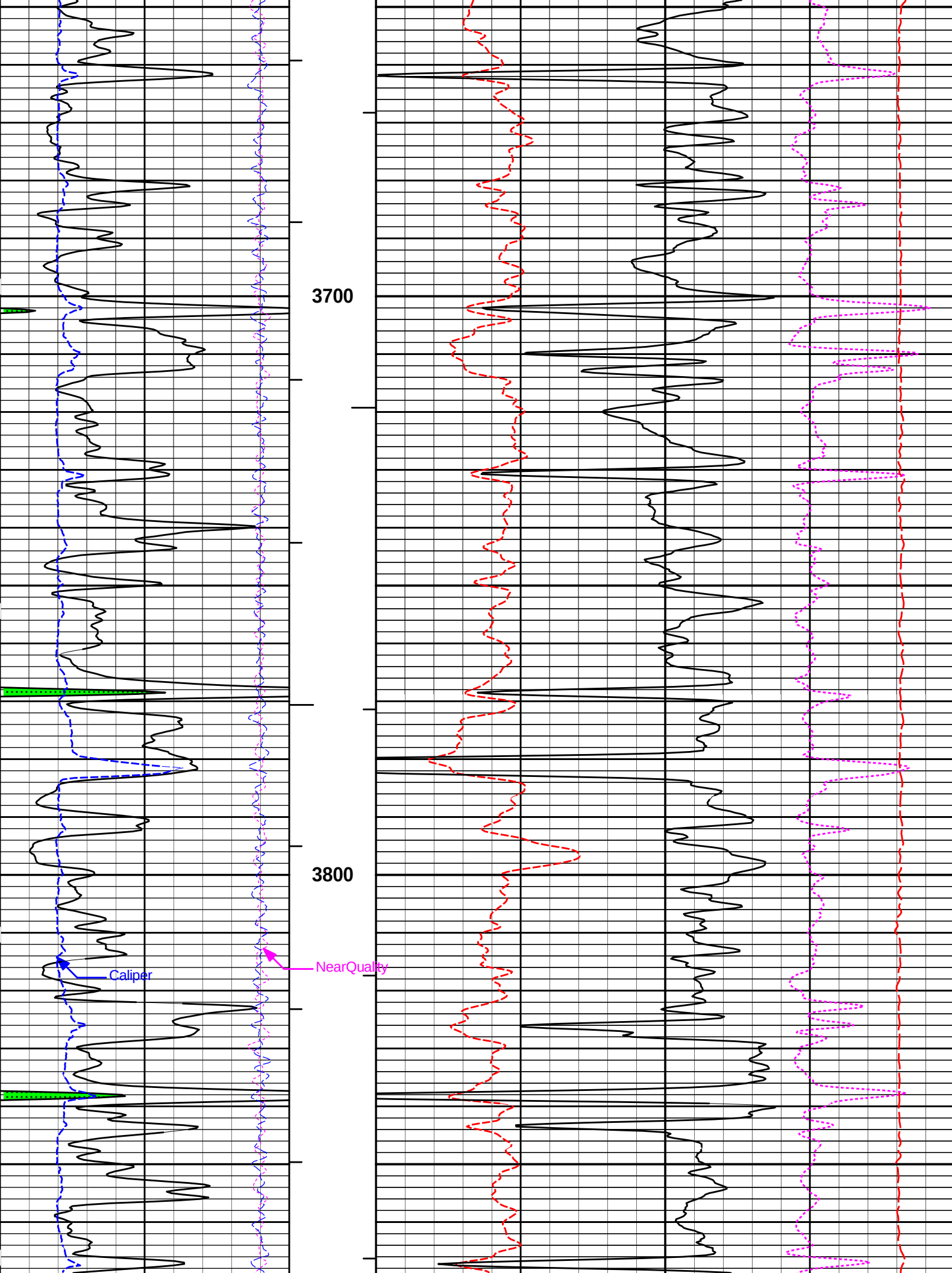
5 INCH MAIN LOG

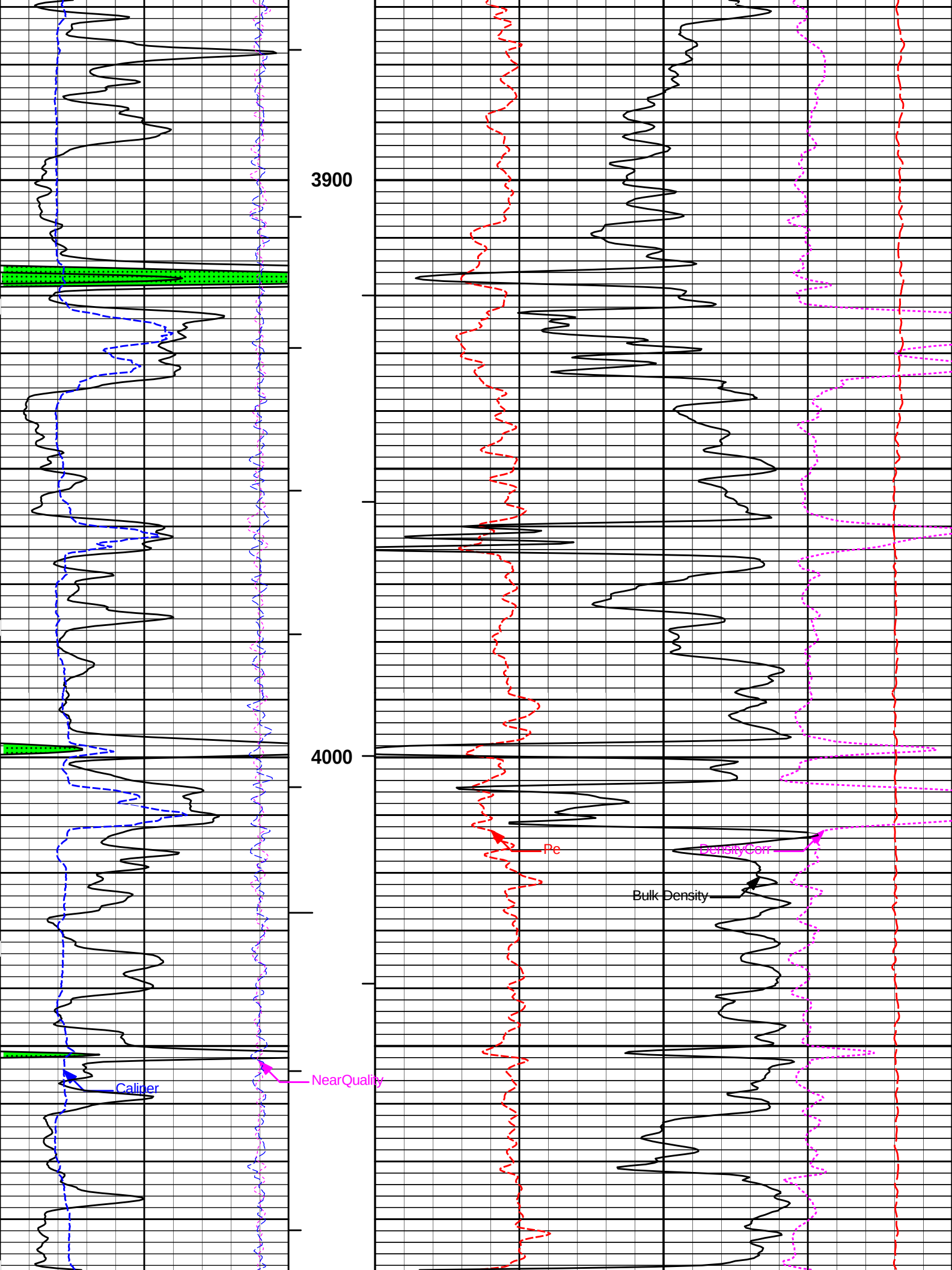
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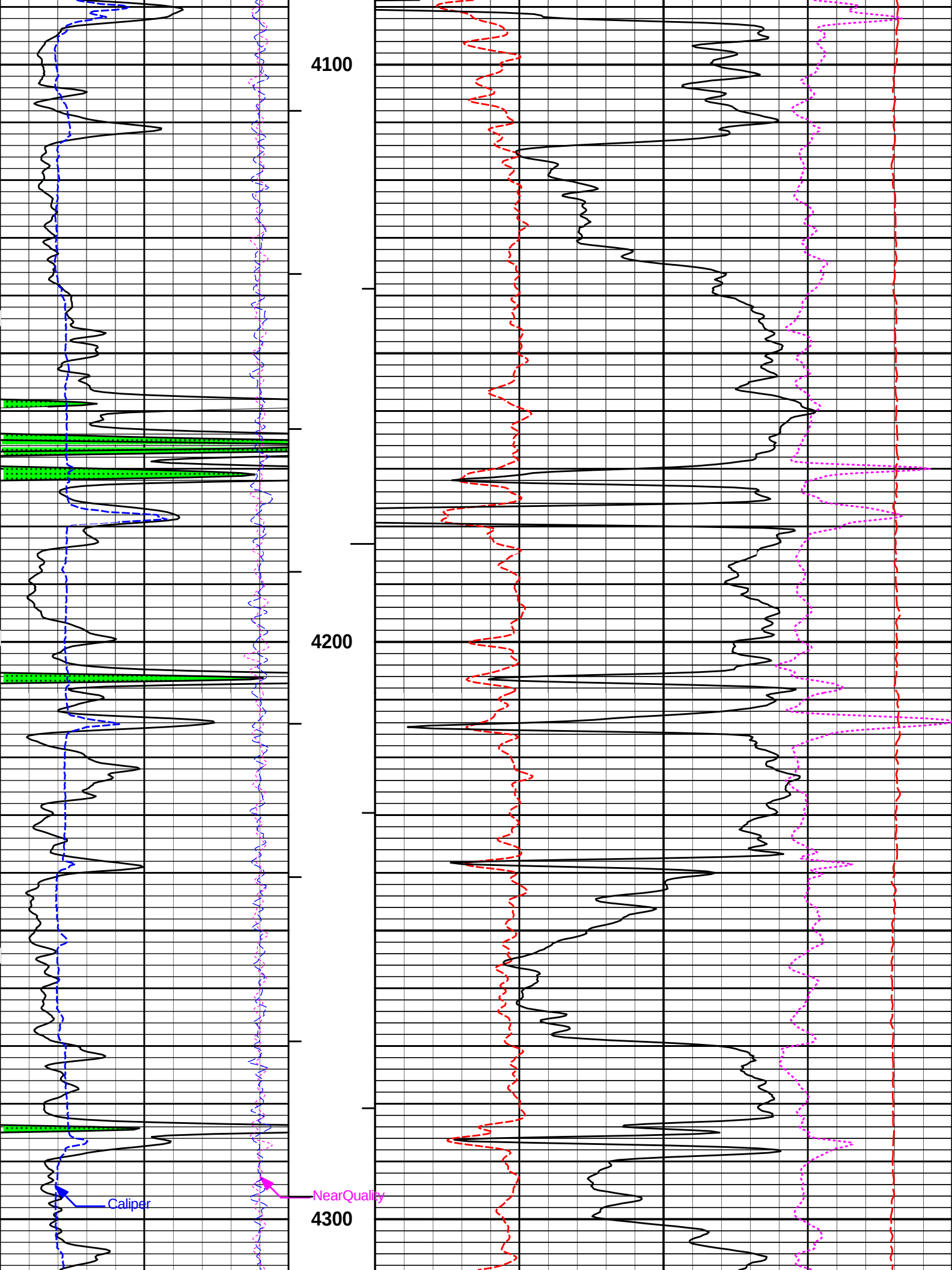
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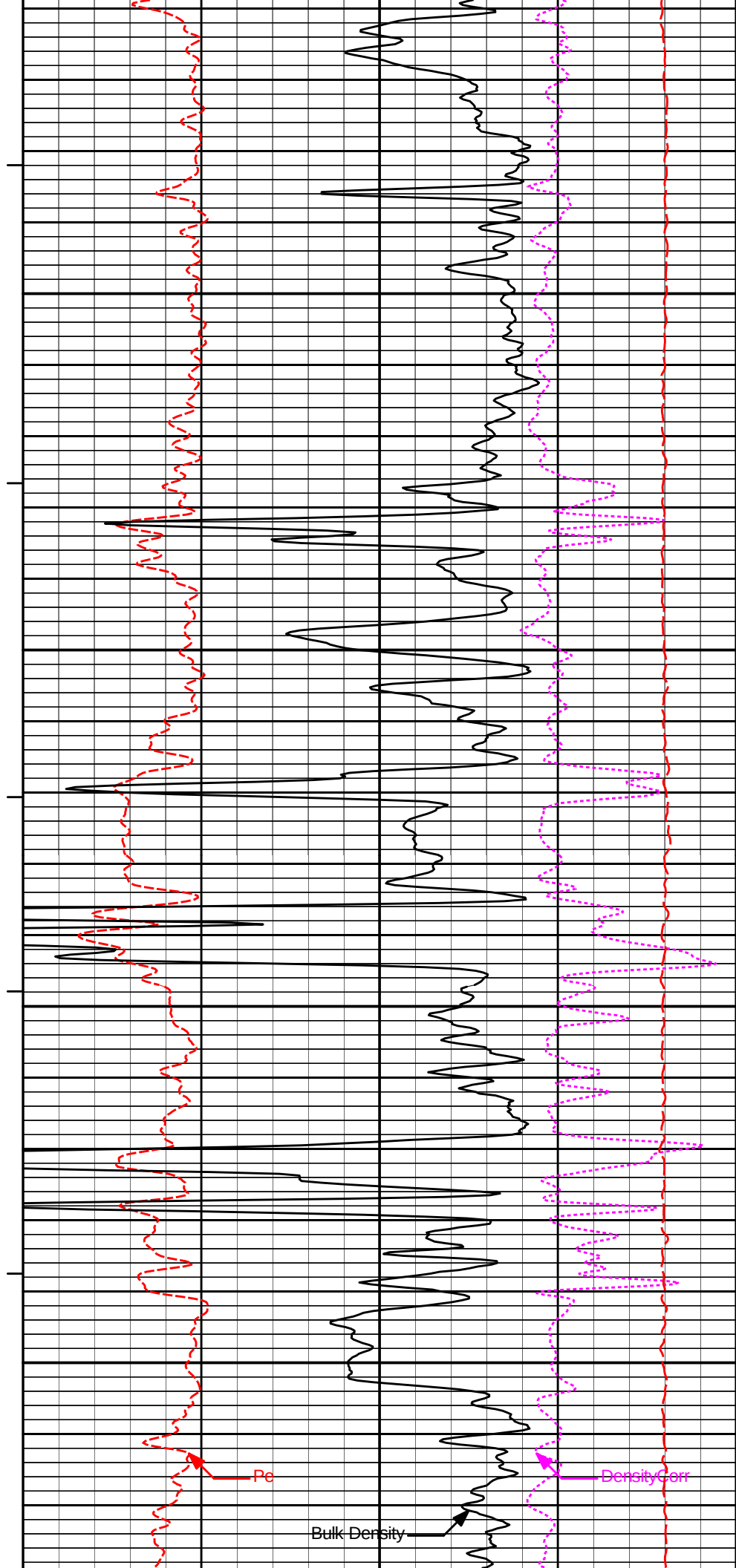
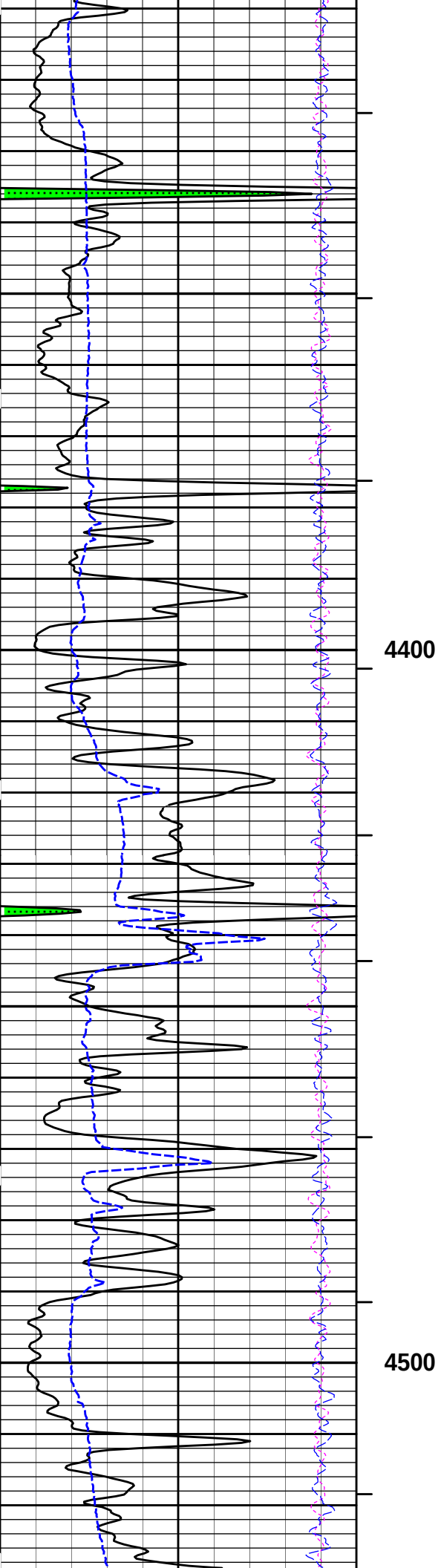
5 INCH MAIN LOG

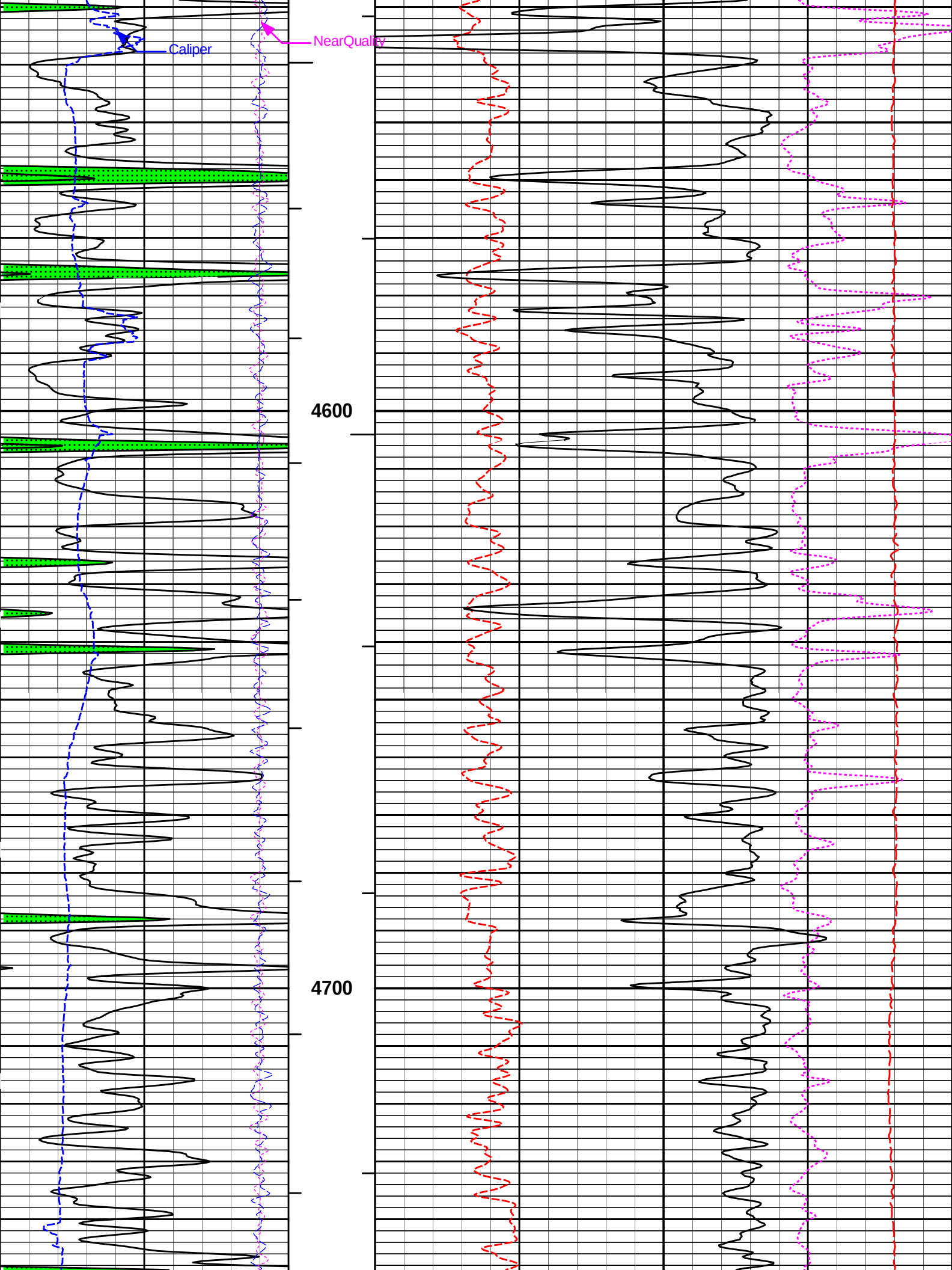


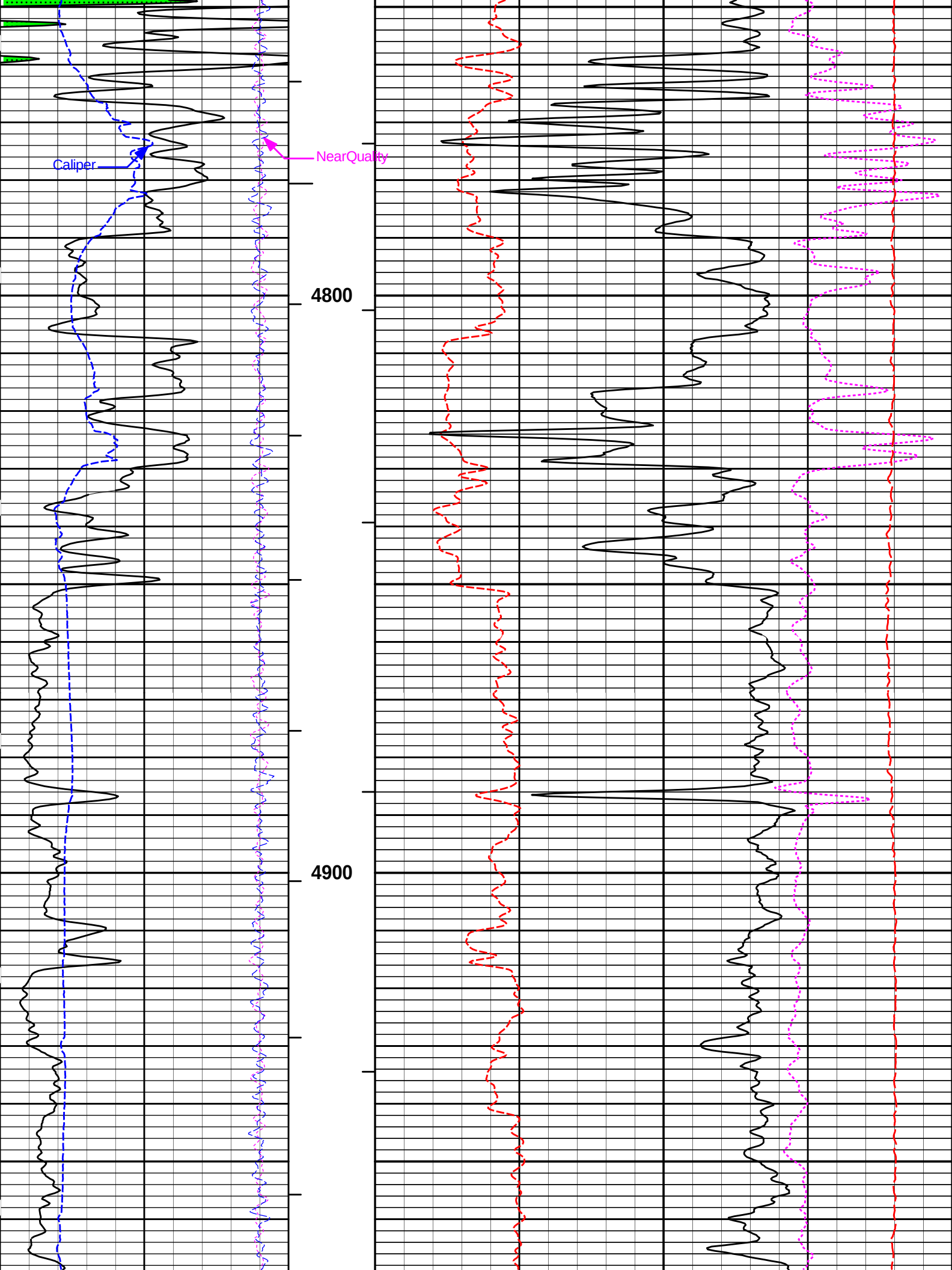


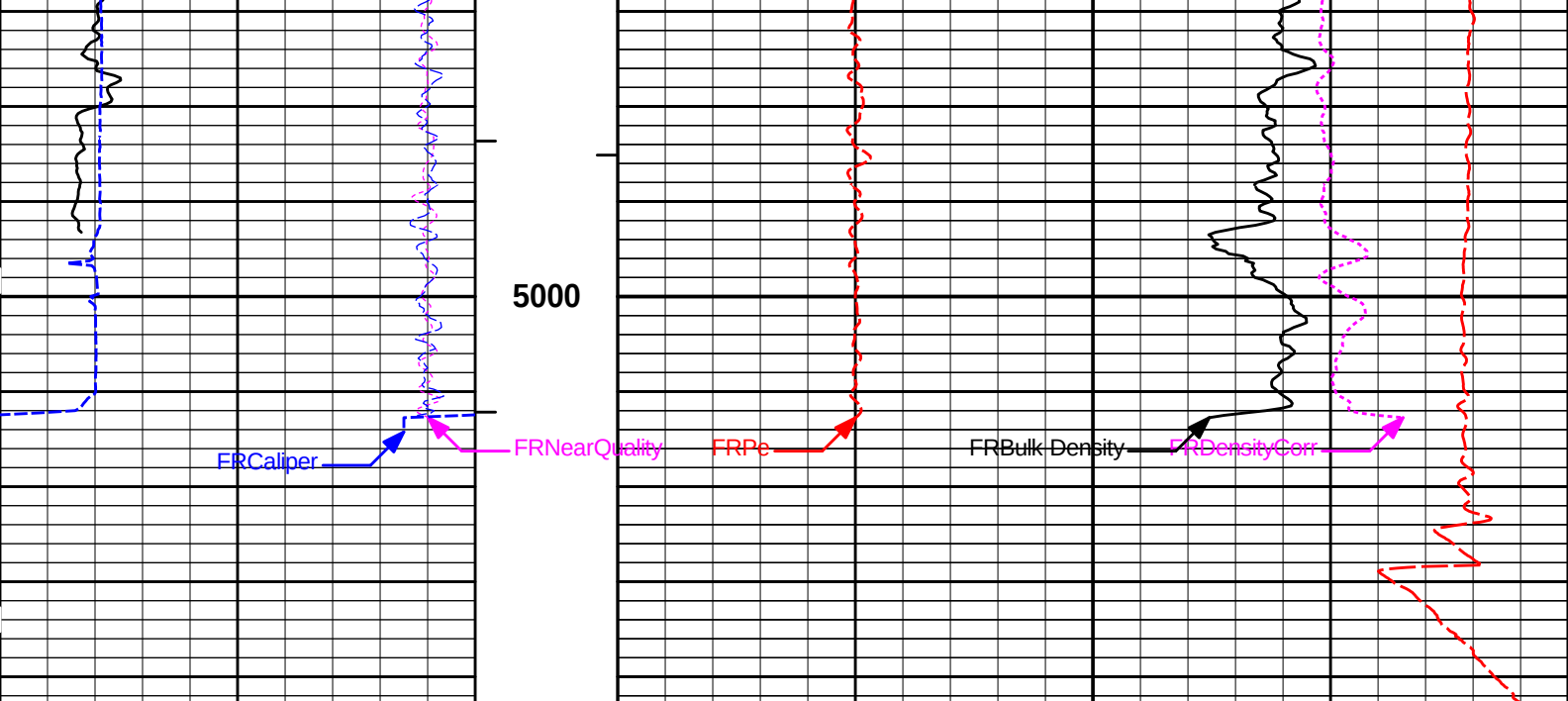












6	Caliper	16	MD 1 : 240 ft	0	Pe	10	-0.25	DensityCorr	0.25
	inches							g/cc	
-18	NearQuality	2	AHV ft3				15K	Tension	0
								pounds	
18	FarQuality	-2	BHV ft3	2	Bulk Density				3
					g/cc				
0	Gamma Ray	150							
	api								
SHALE									

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Plot Time: 28-Sep-13 14:59:31
Plot Range: 3570 ft to 5042.75 ft
Data: 09_28_PALOMINO\Well Based\DAQ-0001-003\
Plot File: \\-LOCAL-\\KYSAR_1-110001 SP-GTET-DSN-SDL-ACRT-CH\\PORO\\BULKD_5_MAIN_LIB

5 INCH MAIN LOG

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CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name: GTET - 10958653

Reference Calibration Date: 03-Aug-13 11:17:56

Engineer: ALEXANDER MURILLO

Calibration Date: 05-Sep-13 18:03:34

Software Version: WL INSITE R3.8.11 (Build 5)

Calibration Version: 1

Calibrator Source S/N: TB-71

Calibrator API Reference:231.00 api

Equivalent Calibrator API Reference:235.1 api

Measurement	Measured	Calibrated	Units
Background	26.0	26.1	api
Background + Calibrator	259.7	261.2	api
Calibrator	233.7	235.1	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION				
Tool Name:	GTET - 10958653		Reference Calibration Date:	05-Sep-13 18:03:34
Engineer:	ALEXANDER MURILLO		Calibration Date:	27-Sep-13 19:41:56
Software Version:	WL INSITE R3.8.11 (Build 5)		Calibration Version:	1
Calibrator Source S/N: TB-71 Calibrator API Reference:231.00 api Equivalent Calibrator API Reference:235.1 api				
Field Verification		Shop	Field	Units
Background		26.1	146.5	api
Background + Calibrator		261.2	375.5	api
Calibrator		235.1	229.0	api
Shop		Field	Difference	Tolerance
235.1		229.0	6.1	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION				
Tool Name:	DSNT - 10763388		Reference Calibration Date:	03-Aug-13 19:48:14
Engineer:	ALEXANDER MURILLO		Calibration Date:	05-Sep-13 19:31:32
Software Version:	WL INSITE R3.8.11 (Build 5)		Calibration Version:	1
Logging Source S/N: DSN-429 Tank Serial Number: ODESSA WATER TANK Reference value assigned to Tank: 52.110 Snow Block S/N: TRUCK 98 Calibration Tank Water Temperature: 92 degF Min. Tool Housing Outside Diameter: 3.625 in				
CALIBRATION CONSTANTS				
Measurement	Prev. Value	New Value	Control Limit On New Value	
Gain:	0.971	0.973	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):	0.2125	0.2134	0.0008	+/- 0.0020
Calibrated Ratio:	9.78	9.81	0.028	+/- 0.050
VERIFIER				
Measurement	Value	Control Limit		
Snow-Block Porosity (decp):	0.0566	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 - 10763388		Reference Calibration Date:	05-Sep-13 19:31:32
Engineer:	ALEXANDER MURILLO		Calibration Date:	27-Sep-13 19:53:41
Software Version:	WL INSITE R3.8.11 (Build 5)		Calibration Version:	1
Logging Source S/N: DSN-429				

NEUTRON FIELD-CHECK SUMMARY				
	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0566	0.0673	0.0107	+/- 0.0150

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

DENSITY CALIPER SHOP CALIBRATION

Tool Name:	SDLT - 88759186	Reference Calibration Date:	03-Aug-13 19:17:42
Engineer:	ALEXANDER MURILLO	Calibration Date:	05-Sep-13 18:18:15
Software Version:	WL INSITE R3.8.11 (Build 5)	Calibration Version:	1
Host Tool Name:	DSNT - 10763388		

CALIBRATION COEFFICIENTS			
Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-2704.92	-2821.32	-7000.00 - -1000.00
Pad Gain	0.0003734	0.0003817	0.000200 - 0.000600
Arm Offset	-3111.56	-1866.67	-5000.00 - 3000.00
Arm Gain	0.0005239	0.0004193	0.000300 - 0.000700
Arm Power	-0.000005773	0.000000727	-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)	3.71	3.75	0.04	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.34	6.50	0.16	+/- 0.20
Medium Ring (in)	8.36	8.25	-0.11	+/- 0.20
Large Ring (in)	15.13	15.00	-0.13	+/- 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 - 88759186	Reference Calibration Date:	05-Sep-13 18:18:15
Engineer:	ALEXANDER MURILLO	Calibration Date:	27-Sep-13 19:47:07
Software Version:	WL INSITE R3.8.11 (Build 5)	Calibration Version:	1

MEASURED CALIPER VALUES				
Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.83	0.08	+/- 0.10
Ring Diameter	8.25	8.10	-0.15	+/- 0.15

PASS/FAIL SUMMARY

Pad Extension Check:	Passed
Diameter Check:	Passed

SPECTRAL DENSITY SHOP CALIBRATION

Tool Name:	SDLT Pad - 88759186	Reference Calibration Date:	03-Aug-13 17:24:56
Engineer:	ALEXANDER MURILLO	Calibration Date:	05-Sep-13 17:40:02
Software Version:	WL INSITE R3.8.11 (Build 5)	Calibration Version:	1

Logging Source S/N: 24513B		
Aluminum Block S/N: 63057Y	Density: 2.604g/cc	Pe: 3.170
Magnesium Block S/N: 63375Y	Density: 1.685g/cc	Pe: 2.560

DENSITY CALIBRATION SUMMARY			
Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0040	1.0111	0.90 - 1.10
Near Dens Gain	0.9942	1.0069	0.90 - 1.10
Near Peak Gain	1.0022	1.0135	0.90 - 1.10
Near Lith Gain	0.9693	0.9758	0.90 - 1.10
Far Bar Gain	1.0071	1.0063	0.90 - 1.10
Far Dens Gain	0.9939	0.9967	0.90 - 1.10
Far Peak Gain	0.9857	0.9884	0.90 - 1.10
Far Lith Gain	0.9547	0.9593	0.90 - 1.10
Near Bar Offset	0.1720	0.1046	NONE
Near Dens Offset	0.2564	0.1409	NONE
Near Peak Offset	0.1665	0.0667	NONE
Near Lith Offset	0.3946	0.3358	NONE
Far Bar Offset	0.0653	0.0689	NONE
Far Dens Offset	0.1710	0.1447	NONE
Far Peak Offset	0.2151	0.1909	NONE
Far Lith Offset	0.3922	0.3572	NONE
Near Bar Background	883.10	883.00	700 - 1450
Near Dens Background	293.33	292.29	230 - 480
Near Peak Background	128.15	127.17	100 - 210
Near Lith Background	155.84	155.90	125 - 260
Far Bar Background	538.97	540.54	450 - 900
Far Dens Background	211.40	212.72	175 - 345
Far Peak Background	82.88	84.83	70 - 140
Far Lith Background	87.30	86.26	75 - 145

CALIBRATION BLOCK SUMMARY				
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.686	1.684	-0.002	+/- 0.015
Pe	2.516	2.534	0.018	+/- 0.150
ALUMINUM				
Density (g/cc)	2.604	2.604	0.000	+/- 0.01500
Pe	3.127	3.139	0.012	+/- 0.150

TOOL SUMMARY

	Measurement	Near Detector		Far Detector	
		Value	Control Limits	Value	Control Limits
QUALITY					
	Background	-0.0006	+/- 0.0110	-0.0013	+/- 0.0140
	Magnesium Block	0.0004	+/- 0.0110	-0.0025	+/- 0.0140
	Aluminum Block	-0.0002	+/- 0.0110	-0.0007	+/- 0.0140
	Resolution	8.46	6.00 - 11.50	9.02	6.00 - 11.50
	Internal Verifier(B+D+P+L)	1458	1200 - 2700	924	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 - 88759186			Reference Calibration Date:	05-Sep-13 17:40:02
Engineer:	ALEXANDER MURILLO			Calibration Date:	27-Sep-13 19:41:34
Software Version:	WL INSITE R3.8.11 (Build 5)			Calibration Version:	1

Pad Temperature: 73.4 degF

DENSITY FIELD CALIBRATION SUMMARY				
Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1458.360	1454.818	-3.542	15.402
Far (B+D+P+L) cps	924.349	920.066	-4.283	16.466
Near Resolution	8.46	8.57	0.110	0.50
Far Resolution	9.02	9.33	0.310	1.00

PASS/FAIL SUMMARY	
Bkg Quality Check:	Passed
Bkg Resolution Check:	Passed
Bkg Verification Check:	Passed

MICRO LOG SHOP CALIBRATION					
Tool Name:	Microlog Pad - 88759186			Reference Calibration Date:	03-Aug-13 19:02:01
Engineer:	ANTONIO TOVAR			Calibration Date:	06-Sep-13 15:21:14
Software Version:	WL INSITE R3.8.11 (Build 5)			Calibration Version:	1
Host Tool Name:	DSNT - 10763388				

CALIBRATION COEFFICIENT SUMMARY					
Measurement	Micro Log Normal		Micro Log Lateral		Units
	Measured	Calibrated	Measured	Calibrated	
Tool Zero	-0.06	-0.07	-0.00	-0.03	ohmm
Calibration Point #1	0.01	0.00	0.03	0.00	ohmm
Calibration Point #2	19.96	20.00	19.97	20.00	ohmm
Internal Reference	19.88	19.92	19.95	19.98	ohmm

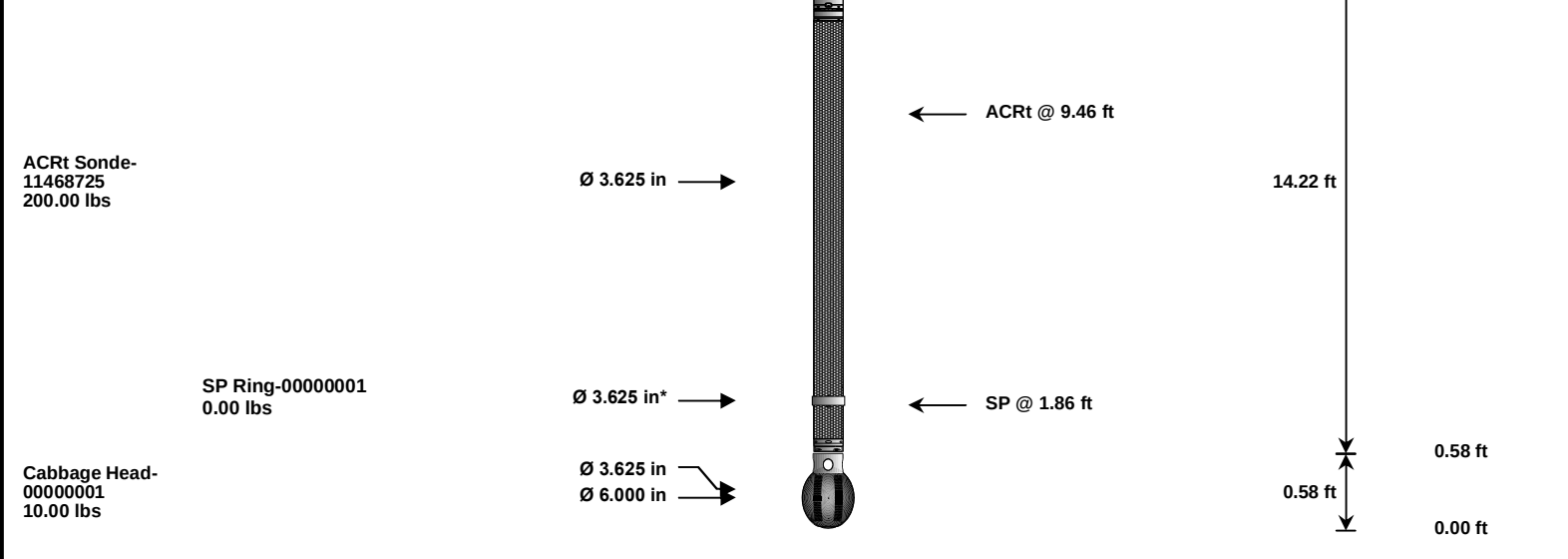
Measurement	Micro Log Normal		Micro Log Lateral		Units
	Tool Value		Tool Value		

Tool Value		Tool Value				
Tool Zero	1.80	-1.91	V			
Calibration Point #1	21.39	8.08	V			
Calibration Point #2	5346.76	6884.58	V			
Internal Reference	5325.57	6879.30	V			
CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-10958653						
Gamma Ray Calibrator	235.1	229.0	-----	6.1	+/- 9.00	api
DSNT-10763388						
Snow-Block Porosity	0.0566	0.0673	-----	-0.0107	+/- 0.0150	decp
SDLT-88759186						
Pad Extension	3.75	3.83	-----	-0.08	+/-0.10	in
Ring Diameter	8.25	8.10	-----	0.15	+/-0.15	in
SDLT Pad-88759186						
Near(B+D+P+L)	1458.360	1454.818	-----	3.542	+/-15.402	cps
Far(B+D+P+L)	924.349	920.066	-----	4.283	+/-16.466	cps
Microlog Pad-88759186						
MicroLog Normal	19.92	-----	-----	0.00	-----	ohmm
MicroLog Lateral	19.98	-----	-----	0.00	-----	ohmm
Data: 09_28_PALOMINO\0001 RWCH-GTET-CSNG-DSN-SDL-ML-FLEX-ACRT-HFaa\IDLE				Date: 28-Sep-13 14:48:28		
HALLIBURTON						
CUSTOMER EVENT LOG						
Event Type	Time & Date	Depth (ft)	Event Description			
	28-Sep-13 12:22:04	406.50	Logging 001 28-Sep-13 12:22 Up @406.5f			
	28-Sep-13 12:27:24	177.83	Halting 001 28-Sep-13 12:22 Up @406.5f			
	28-Sep-13 12:28:37	215.50	Logging 002 28-Sep-13 12:28 Dn @215.5f			
	28-Sep-13 12:48:57	4912.21	Halting 002 28-Sep-13 12:28 Dn @215.5f			
	28-Sep-13 12:53:43	5042.75	Logging 003 28-Sep-13 12:53 Up @5042.8f			
	28-Sep-13 14:24:50	61.44	Halting 003 28-Sep-13 12:53 Up @5042.8f			
Data: 09_28_PALOMINO\0001 RWCH-GTET-CSNG-DSN-SDL-ML-FLEX-ACRT-HFaa\HW11043				Date: 28-Sep-13 14:50:44		
HALLIBURTON						
PARAMETERS REPORT						
Depth (ft)	Tool Name	Mnemonic	Description	Value	Units	
TOP						
	SHARED	BS	Bit Size	7.875	in	
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No		
	SHARED	MDBS	Mud Base	Water		
	SHARED	MDWT	Borehole Fluid Weight	9.200	ppg	
	SHARED	WAGT	Weighting Agent	Natural		
	SHARED	BSAL	Borehole salinity	6500.00	ppm	
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm	
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%	
	SHARED	RMUD	Mud Resistivity	0.700	ohmm	
	SHARED	TRM	Temperature of Mud	69.0	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	5045.00	ft
SHARED	BHT	Bottom Hole Temperature	112.0	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	DSNO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.250	in
DSNT	DNTP	Temperature Correction Type	None	
DSNT	DPRS	DSN Pressure Correction Type	None	
DSNT	SHCO	View More Correction Options	No	
DSNT	UTVD	Use TVD for Gradient Corrections?	No	
DSNT	LHWT	Logging Horizontal Water Tank?	No	
SDLT	CLOK	Process Caliper Outputs?	Yes	
SDLT Pad	DNOK	Process Density?	Yes	
SDLT Pad	DNOK	Process Density EVR?	No	
SDLT Pad	CB	Logging Calibration Blocks?	No	
SDLT Pad	SPVT	SDLT Pad Temperature Valid?	Yes	
SDLT Pad	DTWN	Disable temperature warning	No	
SDLT Pad	DMA	Formation Density Matrix	2.710	g/cc
SDLT Pad	DFL	Formation Density Fluid	1.000	g/cc
Microlog Pad	MLOK	Process MicroLog Outputs?	Yes	
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_____				

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
RWCH-11830881 135.00 lbs		Ø 3.625 in →		← Load Cell @ 57.09 ft ← BH Temperature @ 56.52 ft	6.25 ft	60.77 ft
GTET-10958653 165.00 lbs		Ø 3.625 in →		← GammaRay @ 48.46 ft	8.52 ft	54.52 ft
DSNT-10763388 174.00 lbs	DSN Decentralizer-00000001 6.60 lbs	Ø 5.000 in* → Ø 3.625 in →		← DSN Far @ 39.06 ft ← DSN Near @ 38.31 ft	9.69 ft	46.00 ft
SDLT-88759186 360.00 lbs	SDLT Pad-88759186 65.00 lbs Microlog Pad-88759186 8.00 lbs	Ø 4.500 in → Ø 4.750 in* → Ø 4.750 in* →		Microlog @ 28.50 ft SDL Caliper @ 28.32 ft SDL @ 28.31 ft	10.81 ft	36.31 ft
Flex Joint-11247223 140.00 lbs		Ø 3.625 in →			5.67 ft	25.50 ft
ACRT Instrument-11468730 50.00 lbs		Ø 3.625 in →			5.03 ft	19.83 ft
HFWS Caged Standoff-00000001 7.94 lbs		Ø 5.000 in* →		← Mud Resistivity @ 13.44 ft		14.80 ft



Mnemonic		Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
RWCH	Releasable Wireline Cable Head		11830881	135.00	6.25	54.52	300.00
GTET	Gamma Telemetry Tool		10958653	165.00	8.52	46.00	60.00
DSNT	Dual Spaced Neutron		10763388	174.00	9.69	36.31	60.00
DCNT	DSN Decentralizer		00000001	6.60	5.13	*	39.64
SDLT	Spectral Density Tool		88759186	360.00	10.81	25.50	60.00
SDLP	Density Insite Pad		88759186	65.00	2.55	*	27.71
MICP	Microlog Pad		88759186	8.00	1.00	*	28.00
FLEX	Flex Joint		11247223	140.00	5.67	19.83	300.00
ACRt	Array Compensated True Resistivity Instrument Section		11468730	50.00	5.03	14.80	300.00
ACRt	Array Compensated True Resistivity Sonde Section		11468725	200.00	14.22	0.58	300.00
SP	SP Ring		00000001	0.00	0.25	*	1.86
HFCS	Hostile Full Wave Sonic Caged Metal and Rubber Standoff		00000001	7.94	1.33	*	13.35
CBHD	Cabbage Head		00000001	10.00	0.58	0.00	300.00
Total				1,321.54	60.77		
* Not included in Total Length and Length Accumulation.							
Data: 09_28_PALOMINO\0001 RWCH-GTET-CSNG-DSN-SDL-ML-FLEX-ACRT-HFaa\003 28-Sep-13 12:53 Up @5042.8f Date: 28-Sep-13 14:52:38							

COMPANY	PALOMINO PETROLEUM, INC.		
WELL	DANFIELD21 No.1		
FIELD	None (Wildcat)		
COUNTY	SCOTT	STATE	KANSAS
HALLIBURTON		SPECTRAL DENSITY DUAL SPACED NEUTRON	

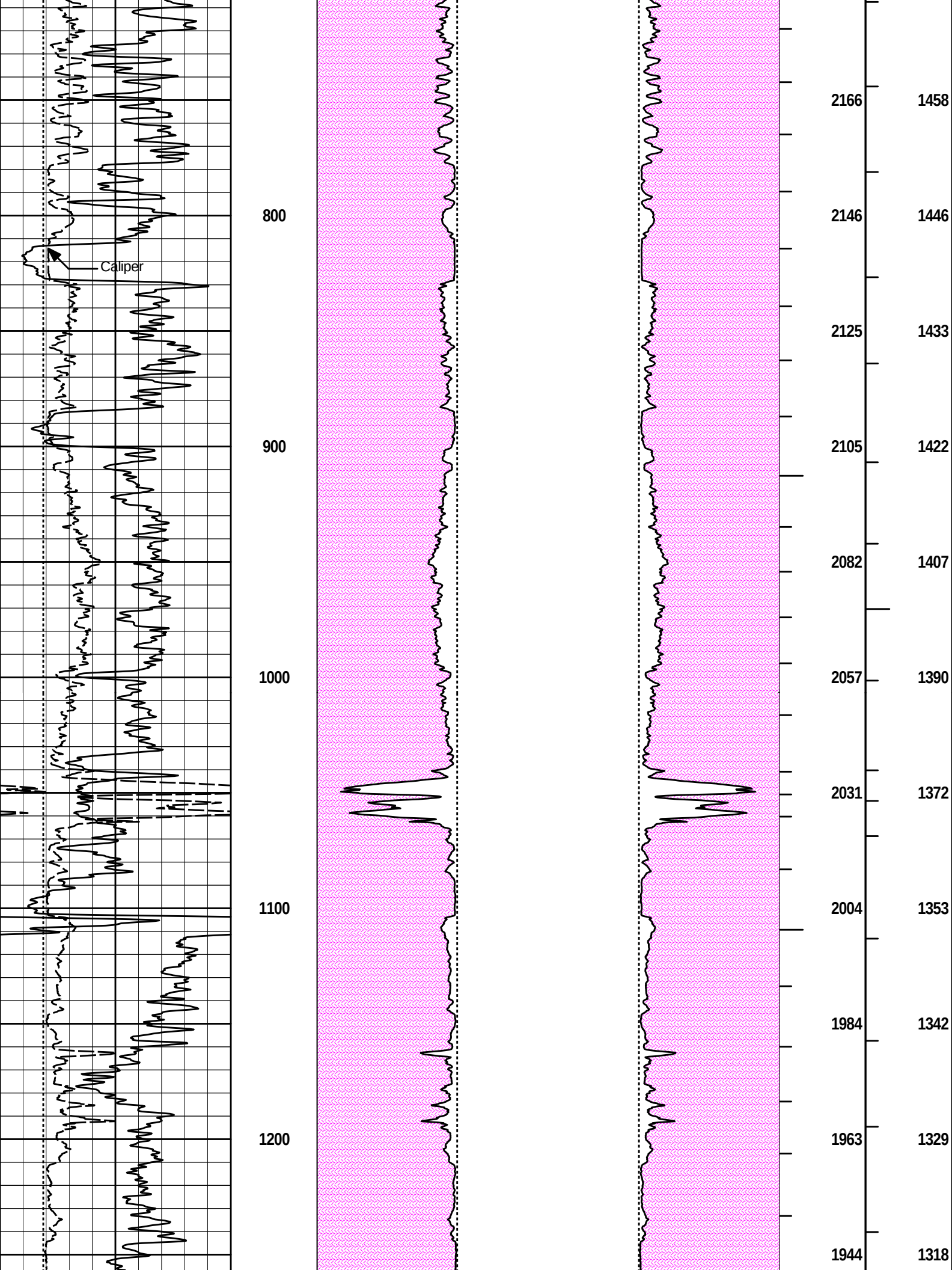
HALLIBURTON

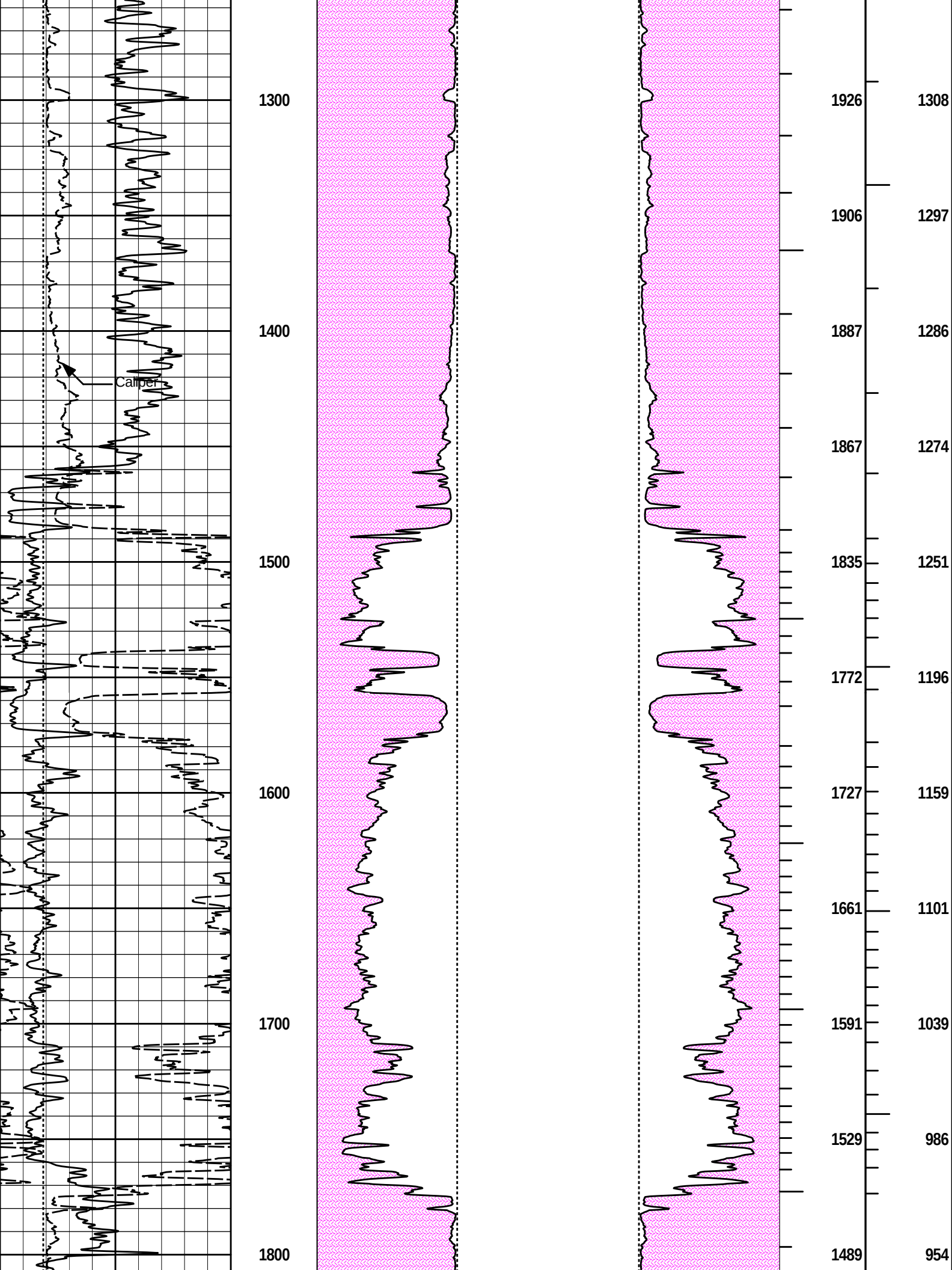
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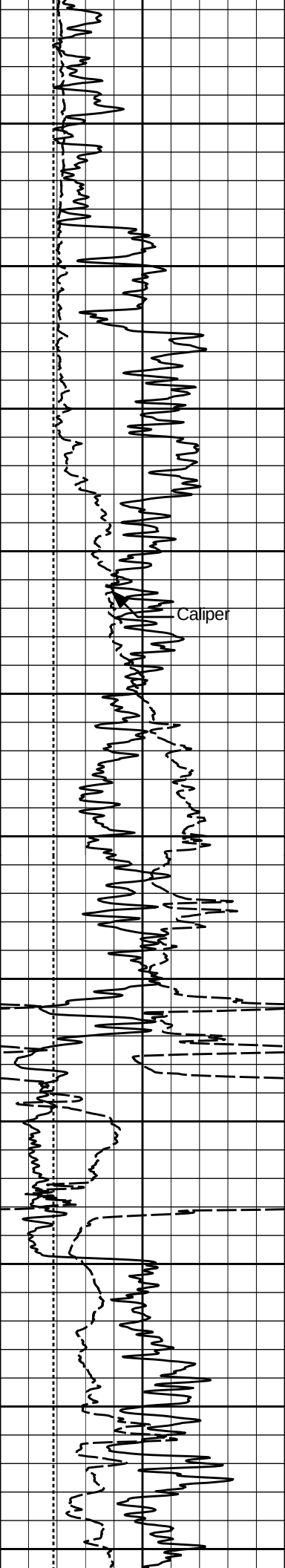
ANNULAR HOLE VOLUME PLOT

0	Gamma API	150	MUDCAKE	MUDCAKE
	api			

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Bit Size		Bit Size		Bit Size		Bit Size		Bit Size	
inches		inches		inches		inches		inches	
6 16		20 0 0 20		20 0 0 20		20 0 0 20		20 0 0 20	
Caliper		Caliper		Caliper		Caliper		Caliper	
inches		inches		inches		inches		inches	
MD 1 : 600 ft		CSG		BHVT		AHVT			
300		2377		1586					
350		2355		1572					
400		2331		1556					
450		2308		1542					
500		2287		1529					
550		2266		1517					
600		2247		1505					
650		2227		1494					
700		2208		1483					
750		2188		1472					







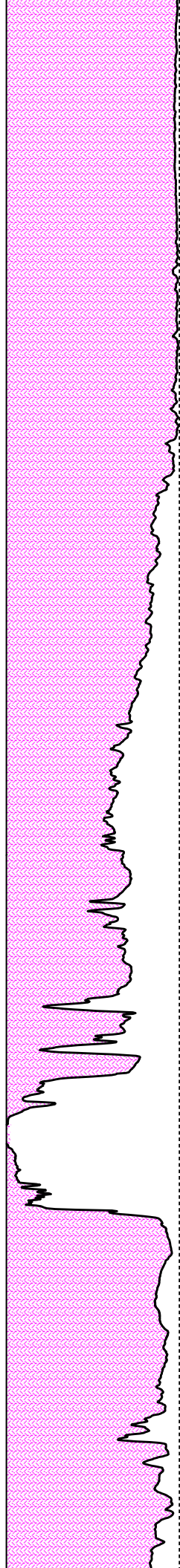
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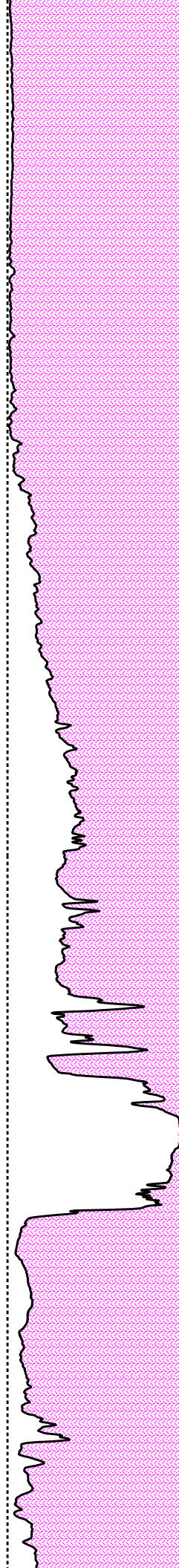
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2200

2300



88



1471

1453

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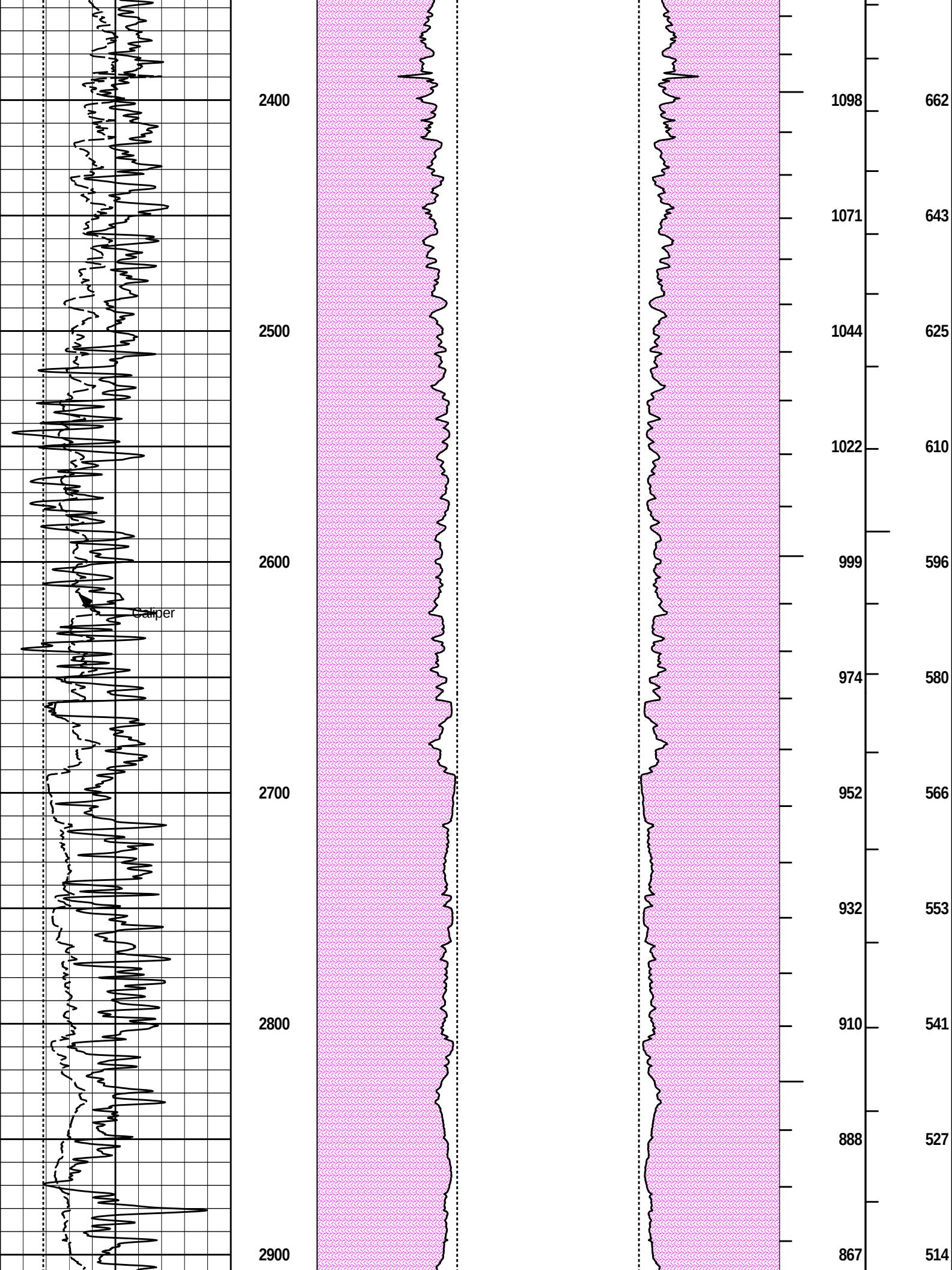
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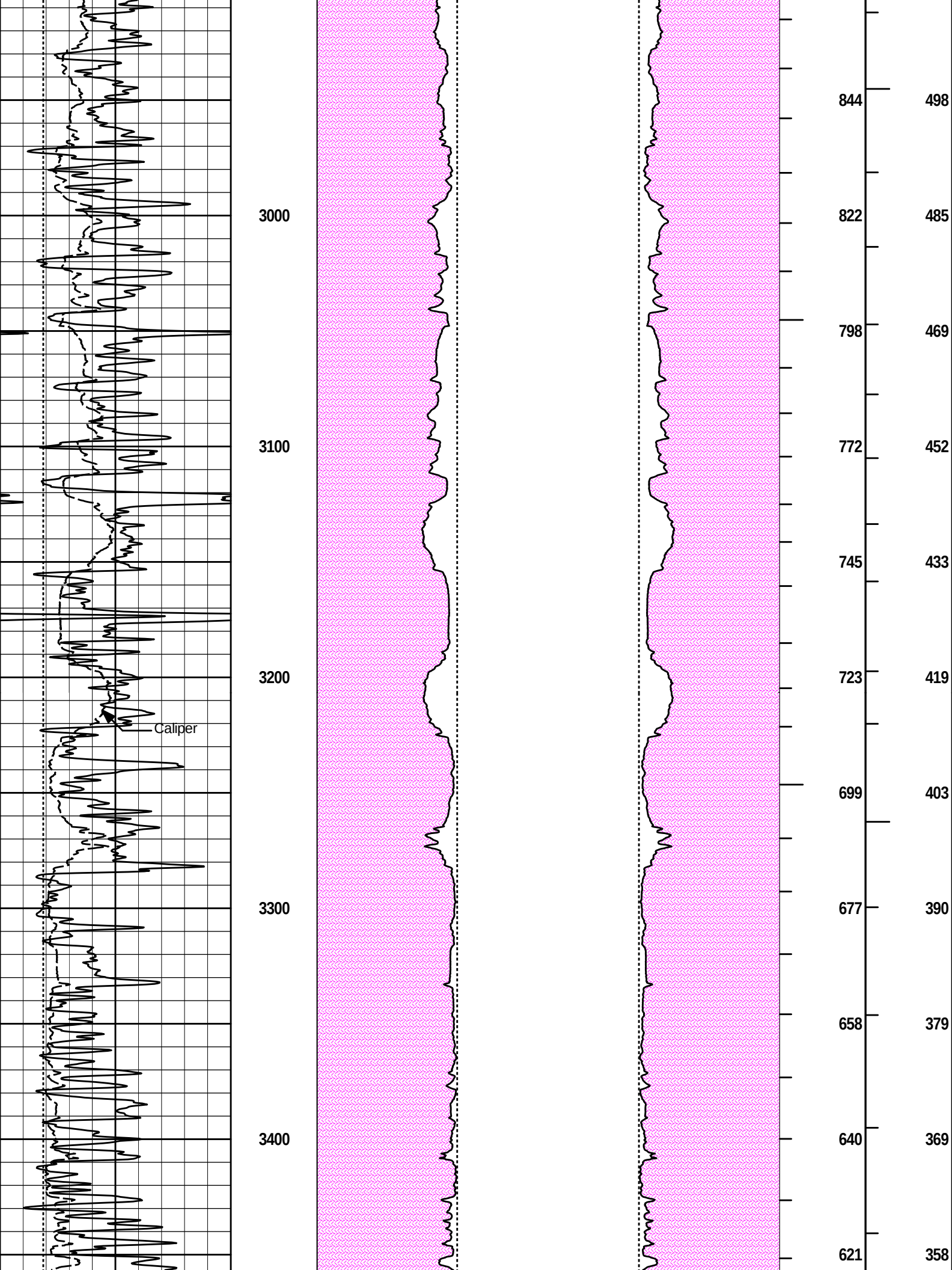
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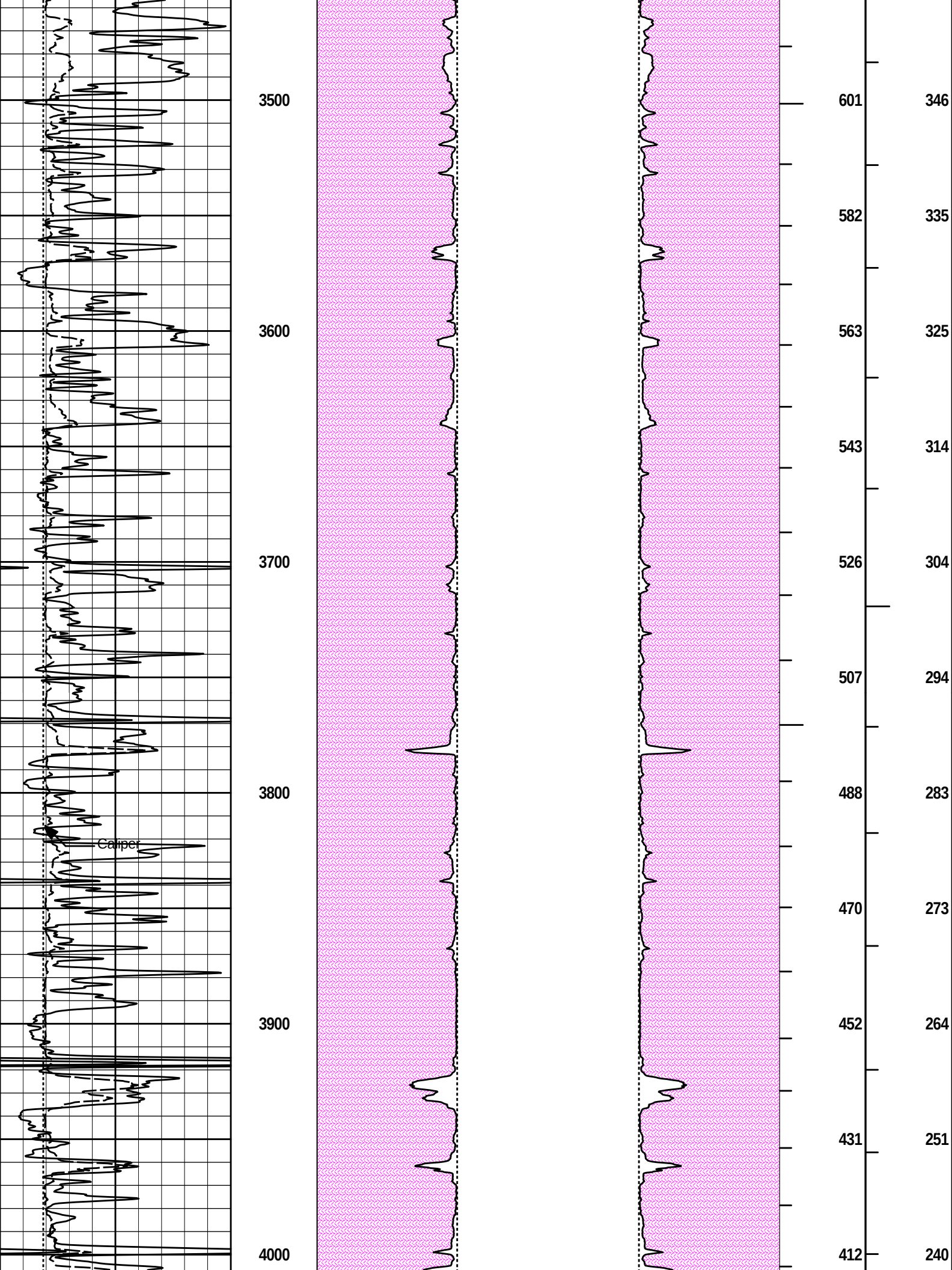
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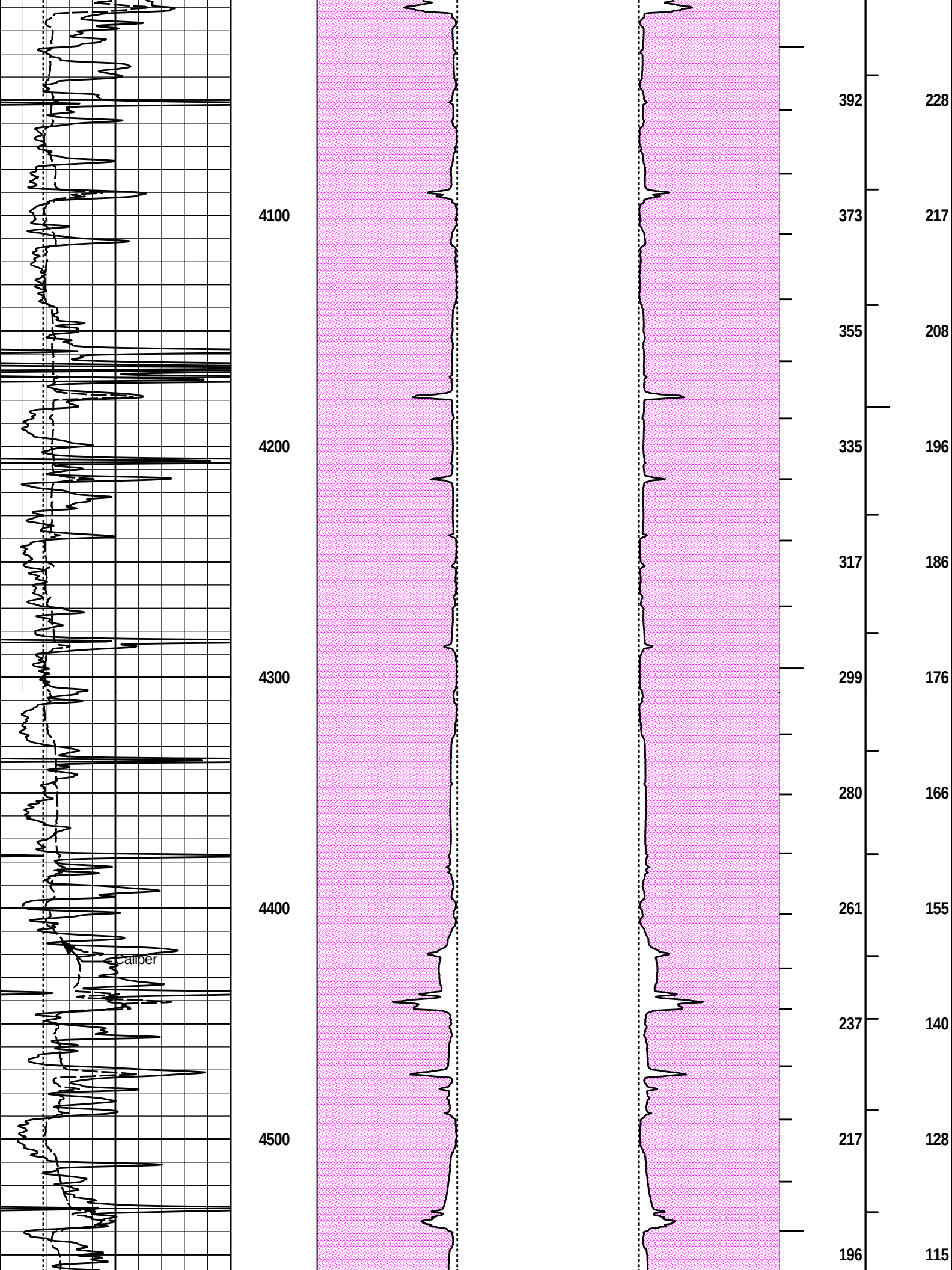
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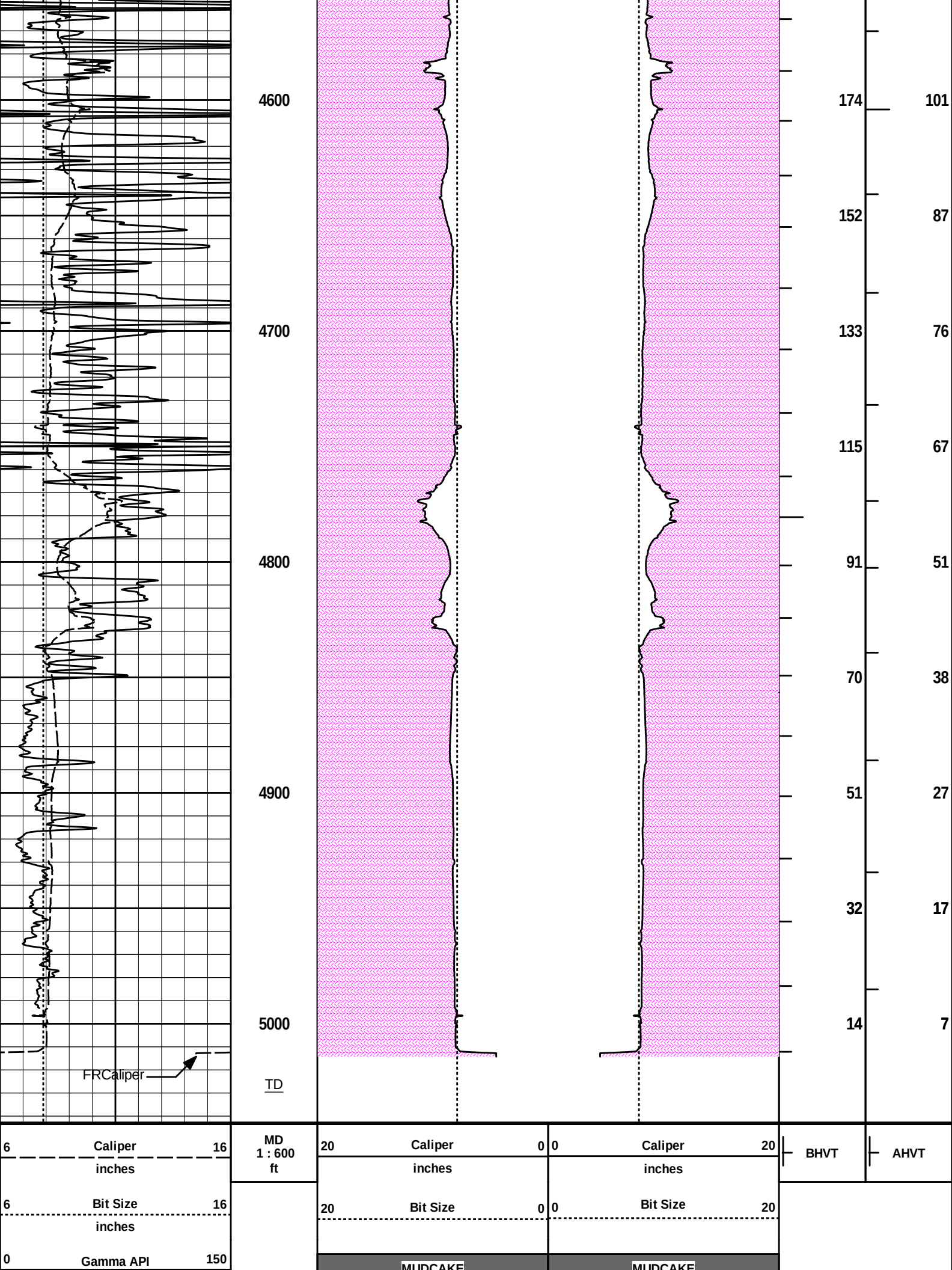
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api

MODCARE

MODCARE

HALLIBURTON

Plot Time: 28-Sep-13 14:59:37

Plot Range: 207 ft to 5042.75 ft

Data: 09_28_PALOMINO\Well Based\DAQ-0001-003\

Plot File: \\-LOCAL-\\KYSAR_1-1\0001 SP-GTET-DSN-SDL-ACRT-CHIPORO\AHV_2_IQ_LIB

ANNULAR HOLE VOLUME PLOT