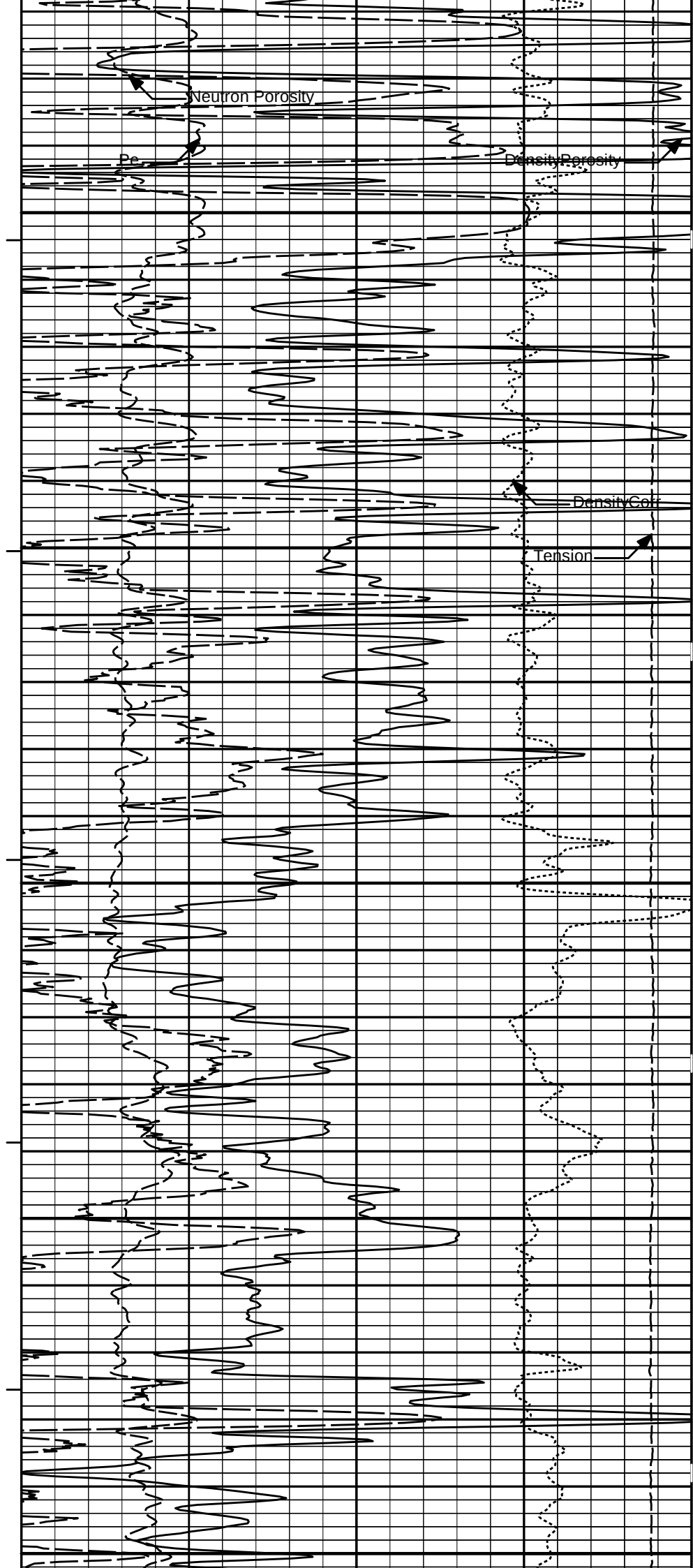
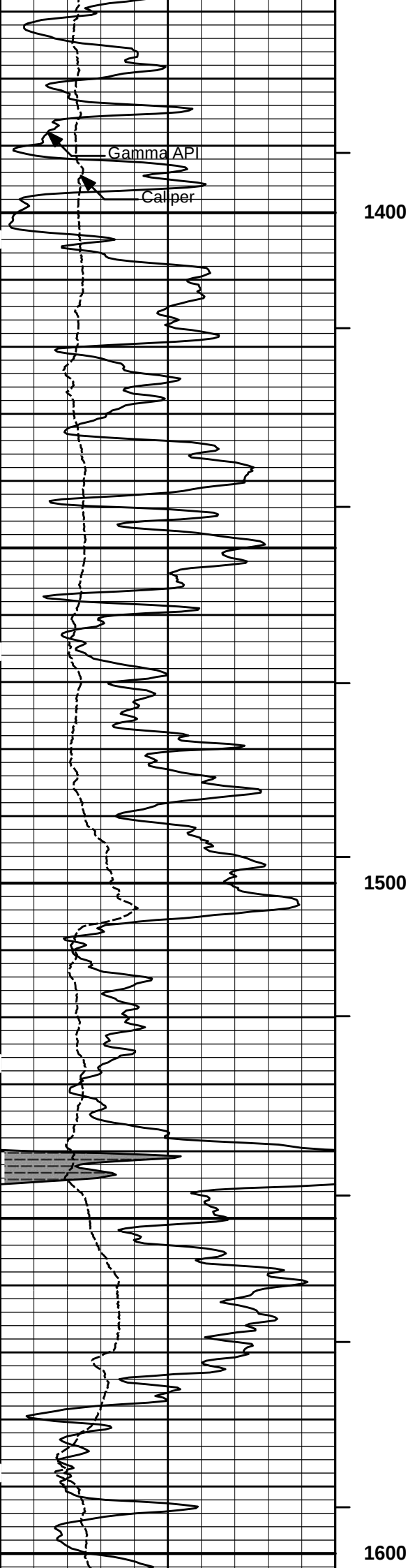
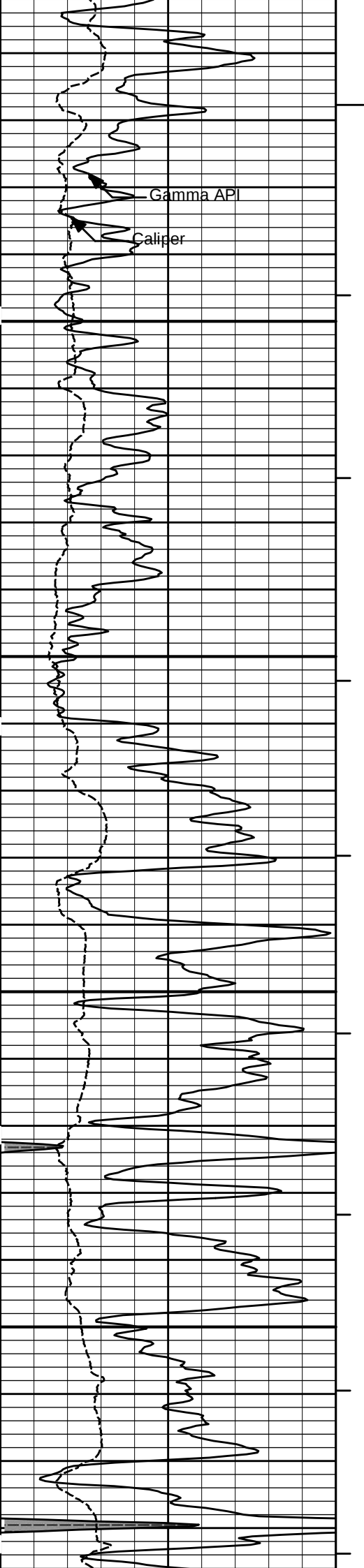


HALLIBURTON				DUAL SPACED NEUTRON SPECTRAL DENSITY LOG			
COMPANY		CMX, INC.		COMPANY		CMX, INC.	
WELL		LEGHORN #1-22		WELL		LEGHORN #1-22	
FIELD/BLOCK		CHASE-SILICA		FIELD/BLOCK		CHASE-SILICA	
COUNTY		BARTON		COUNTY		BARTON	
STATE		KANSAS		STATE		KANSAS	
Permanent Datum		GL		API No. 15-009-26165-00-00		Other Services: ACRT BSAT MICRO DSNT/SDLT	
Log measured from		KB		Location 2310' FSL & 2610' FEL		Elev.: K.B. 1767.0 ft D.F. 1767.0 ft G.L. 1759.0 ft	
Drilling measured from		KB		Sect. 22 Twp. 20S Rge. 11W			
Date		08-Mar-17					
Run No.		ONE					
Depth - Driller		3312.0 ft					
Depth - Logger		3310.0 ft					
Bottom - Logged Interval		3307.0 ft					
Top - Logged Interval		252.0 ft					
Casing - Driller		8.625 in @ 256.0 ft				@	
Casing - Logger		252.0 ft					
Bit Size		7.875 in				@	
Type Fluid in Hole		Water Based Mud					
Density		9.1 ppg		57.00 s/qt			
PH		9.20 pH		7.6 cpm			
Source of Sample		FLOWLINE					
Rm @ Meas. Temperature		0.54 ohmm @ 75.00 degF				@	
Rmf @ Meas. Temperature		0.45 ohmm @ 75.00 degF				@	
Rmc @ Meas. Temperature		0.63 ohmm @ 75.00 degF				@	
Source Rmf		CALC		CALC			
Rm @ BHT		0.42 ohmm @ 103.0 degF				@	
Time Since Circulation		15:52 hr					
Time on Bottom		08-Mar-17 11:52					
Max. Rec. Temperature		103.00 degF @ 3310.0 ft				@	
Equipment		11072142		EL RENO, OK			
Recorded By		THOMAS HYDE				JORGE ORLANDO PEREZ	
Witnessed By		K. LEBLANC					

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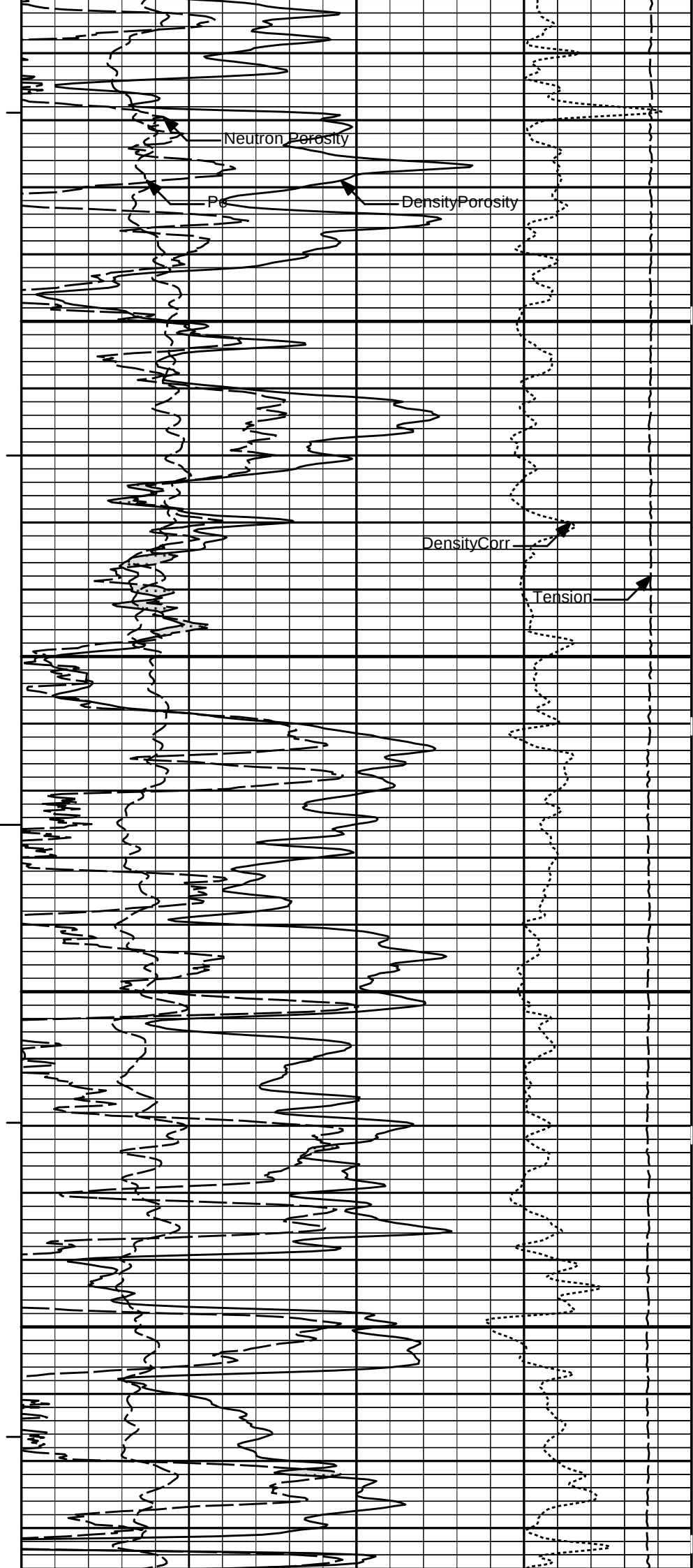
Service Ticket No.: 903889174						API No.: 15-009-26165-00-00						PGM Version: WL INSITE R5.0.5 (Build 8)					
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE									RESISTIVITY SCALE CHANGES								
Date	Sample No.					Type Log	Depth	Scale Up Hole			Scale Down Hole						
Depth-Driller																	
Type 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.		@				ONE	ACRT	N/A		CENT.		N/A					
Rmc @ Meas. Temp.		@					I-11026094										
Source Rmf	Rmc						S-11024142										
Rm @ BHT		@															
Rmf @ BHT		@															
Rmc @ BHT		@															
EQUIPMENT DATA																	
GAMMA				ACOUSTIC				DENSITY				NEUTRON					
Run No.	ONE			Run No.	ONE			Run No.	ONE			Run No.	ONE				
Serial No.	11013114			Serial No.	10939050			Serial No.	10960494			Serial No.	10993115				
Model No.	GTET			Model No.	BSAT			Model No.	SDLT			Model No.	DSNT				
Diameter	3.625"			No. of Cent.	2			Diameter	5.5"			Diameter	3.625"				
Detector Model No.	T-102			Spacing	EVEN			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.	DSD-424				
Distance to Source	N/A			FWDA [Y/N]				Strength	1.5 Ci			Strength	15 Ci				
LOGGING DATA																	
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	3310	252	DEC	0	150	30	10	47.6	30	10	2.71	30	310			LIME	

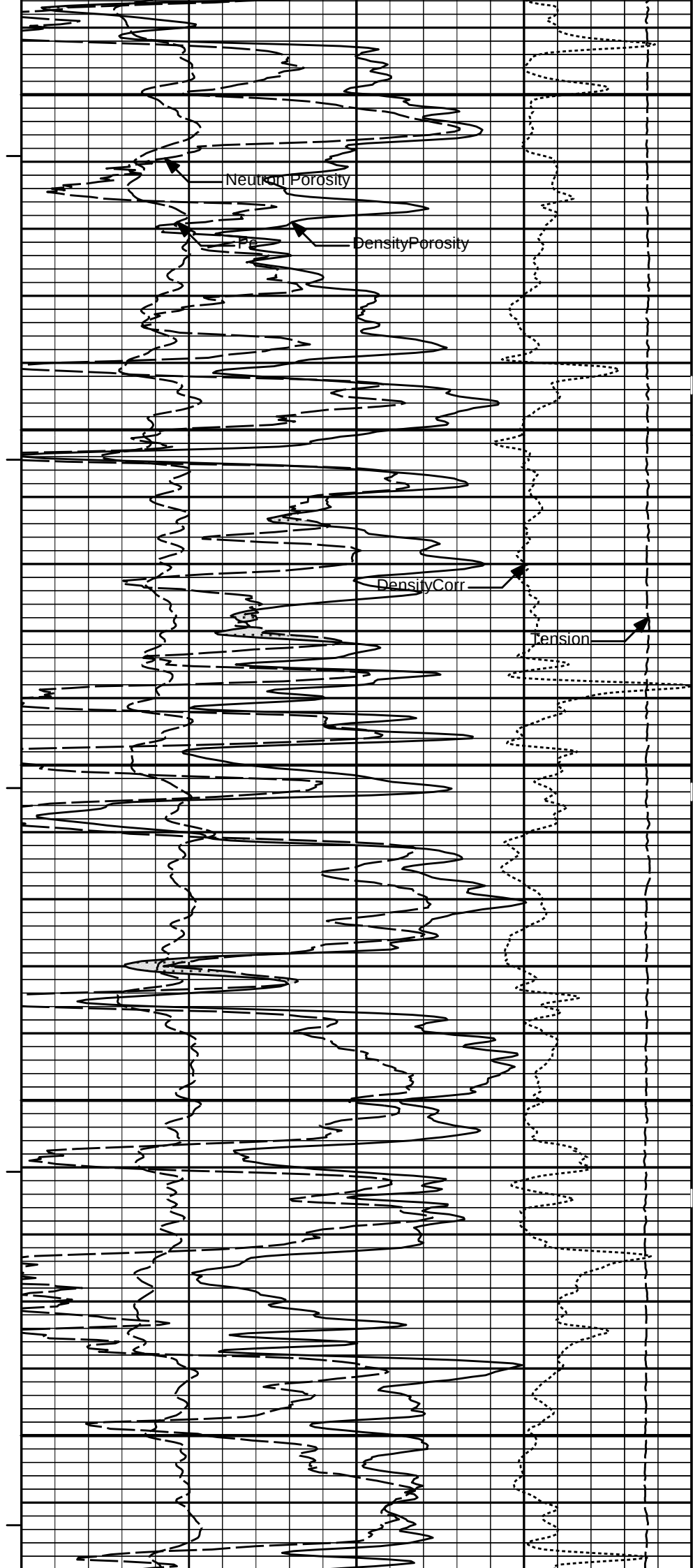
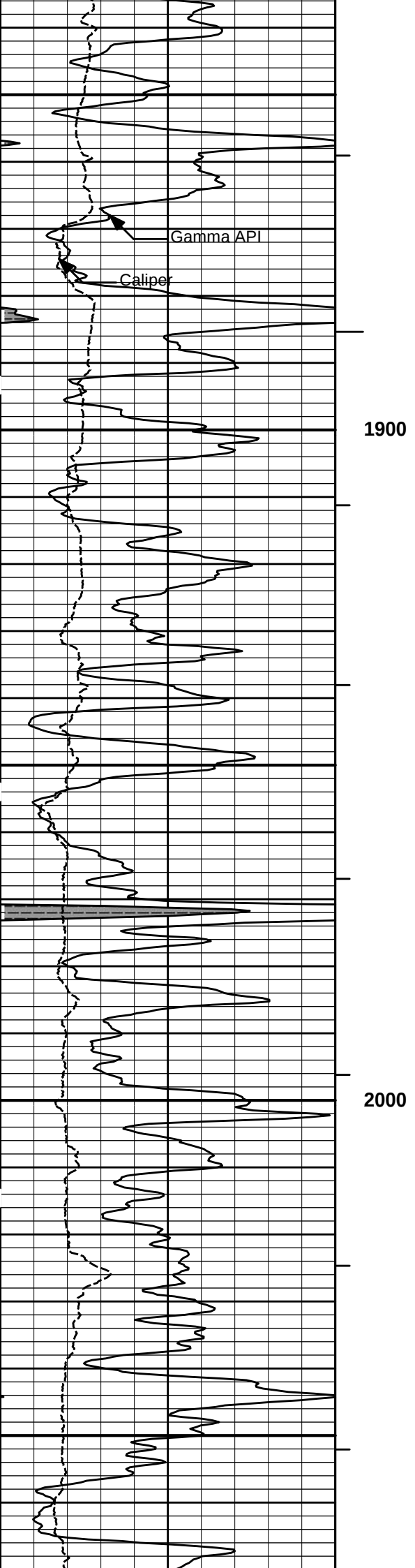


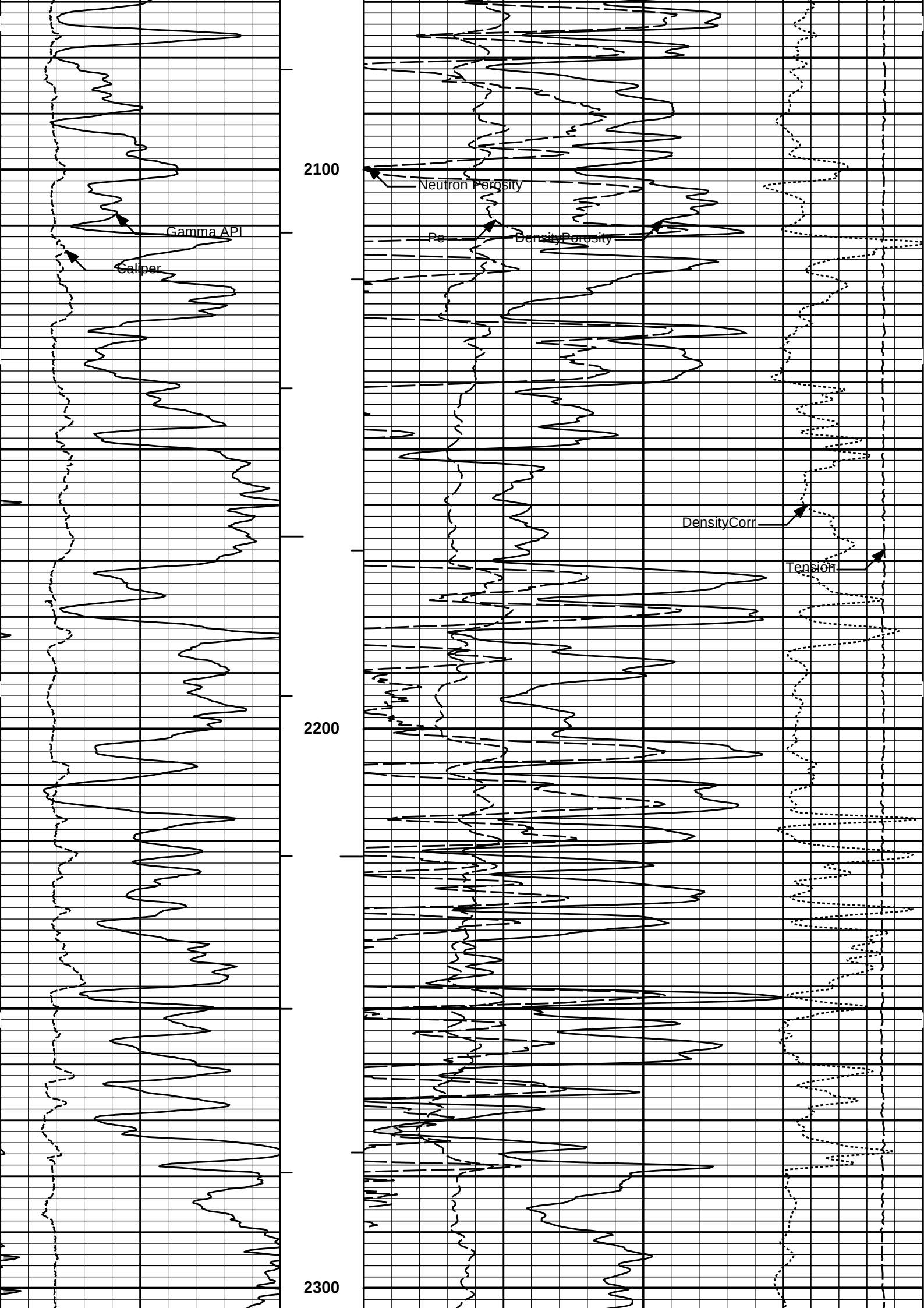


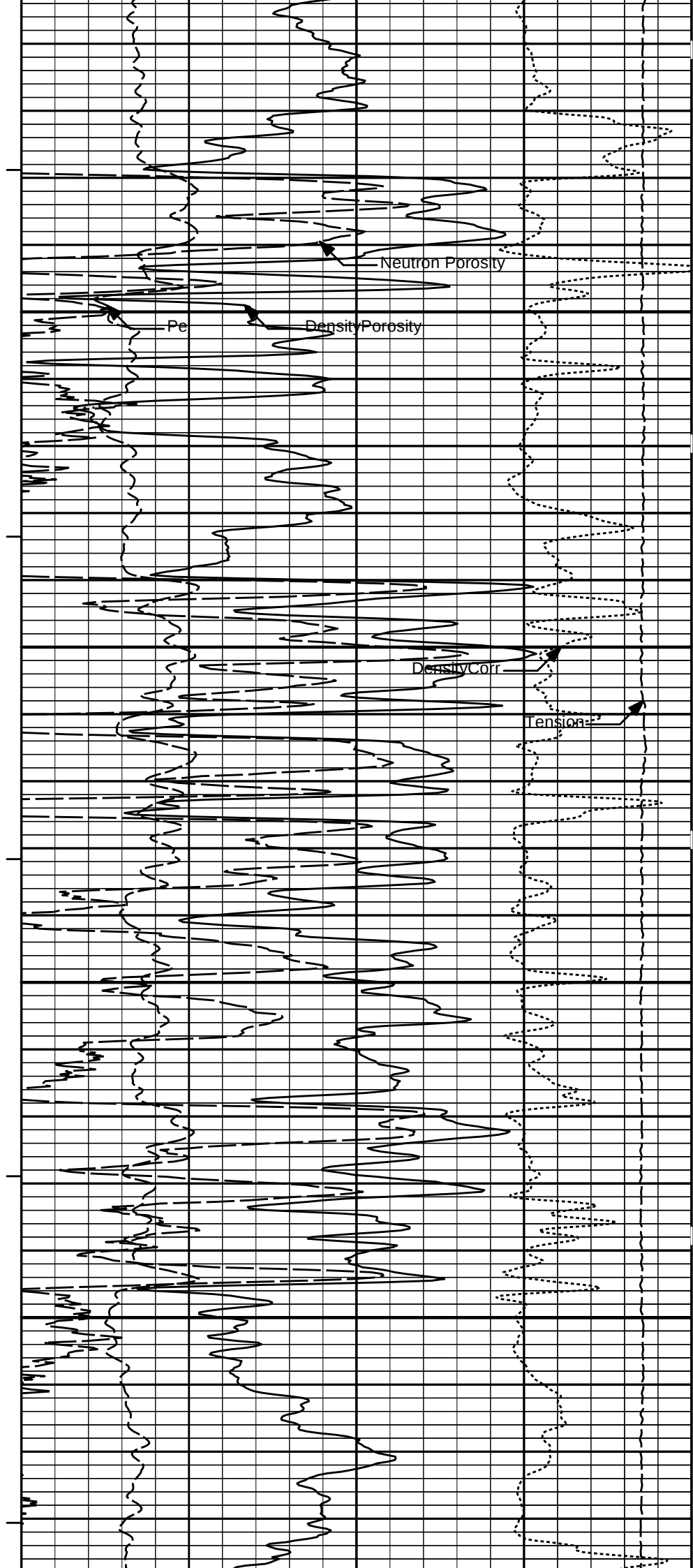
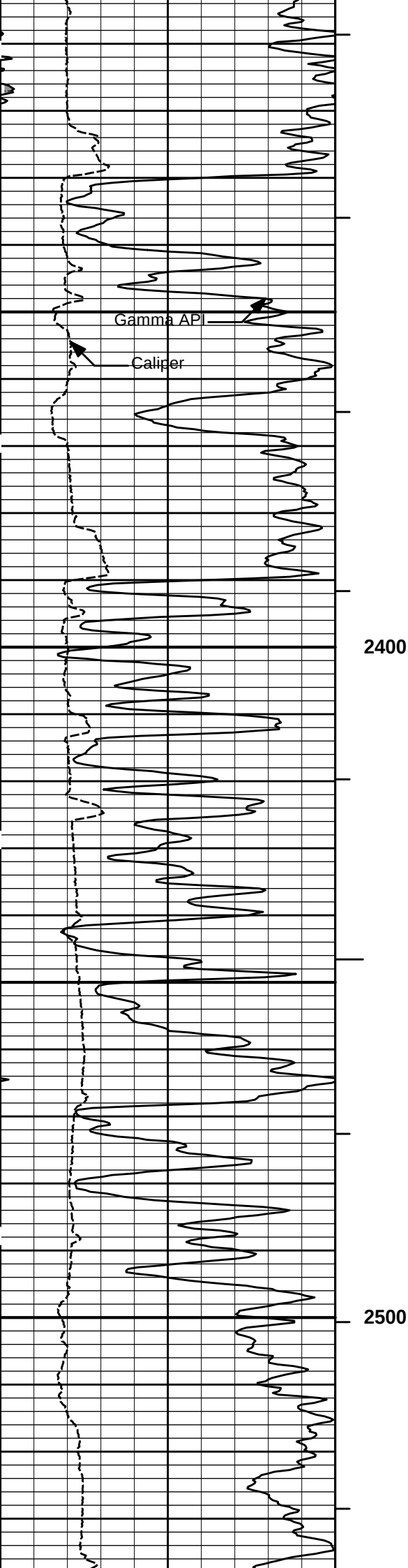
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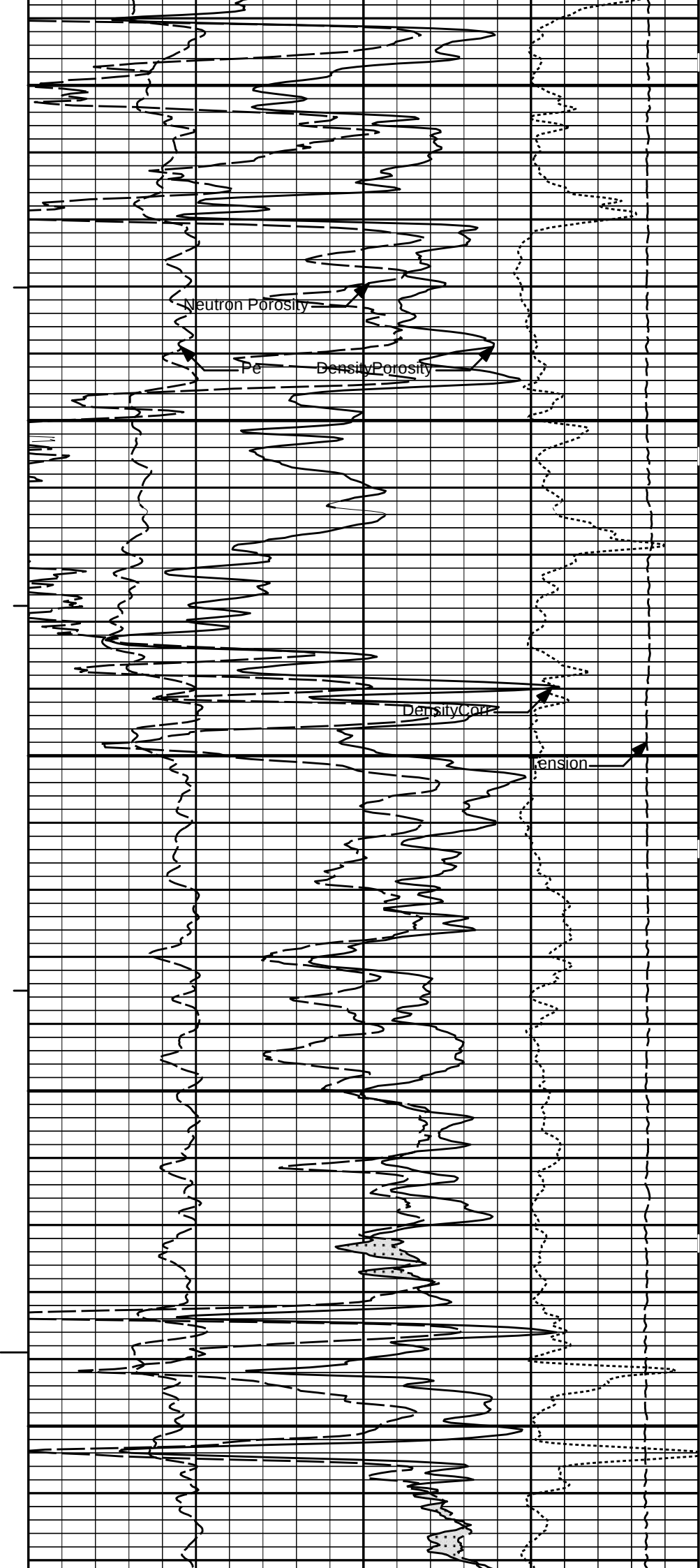
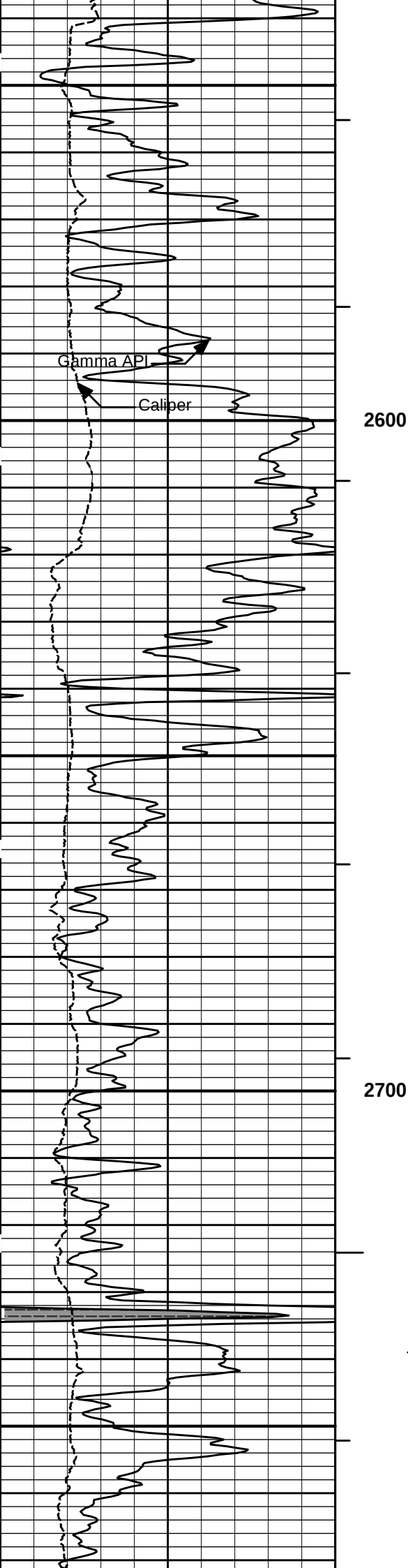
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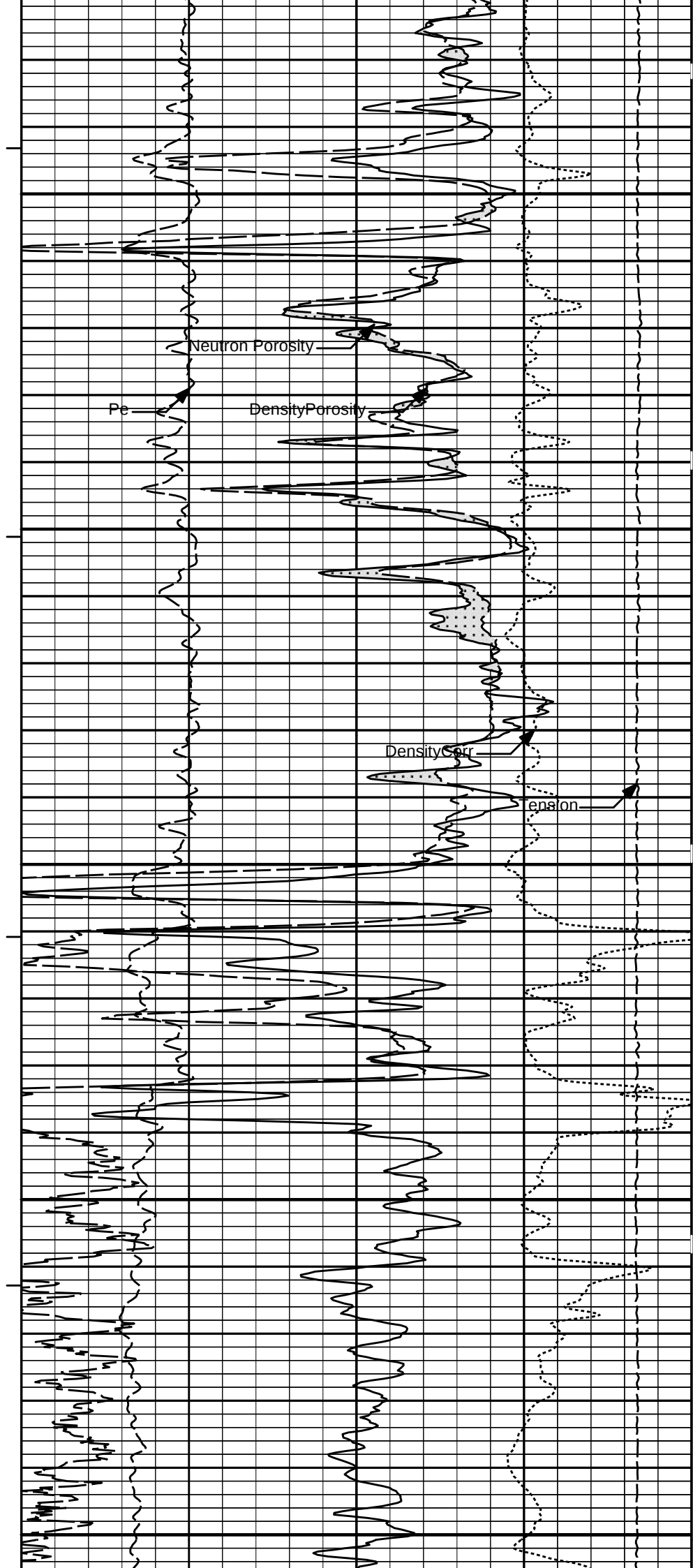
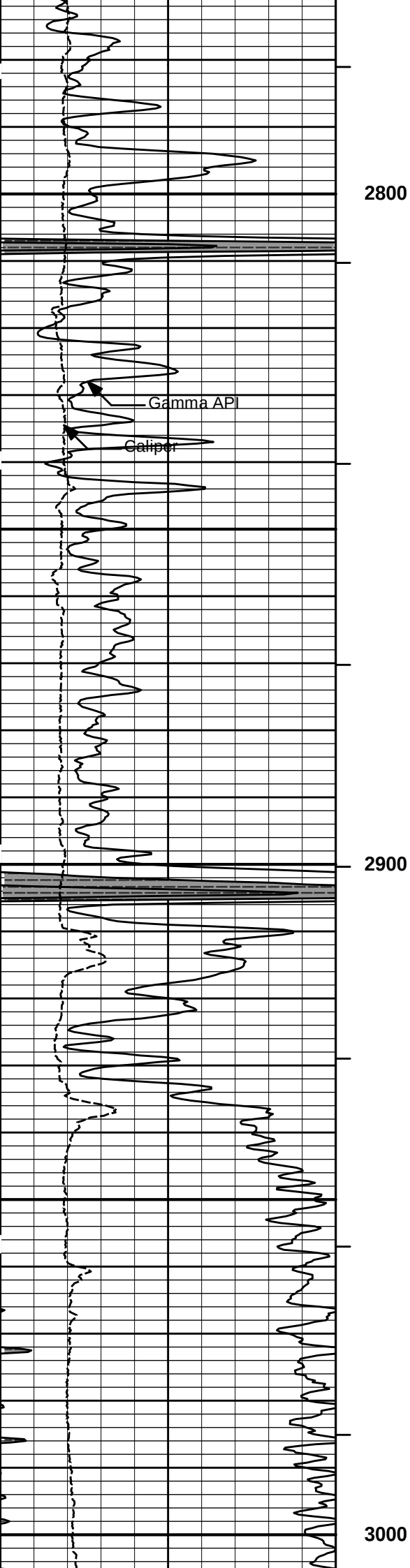


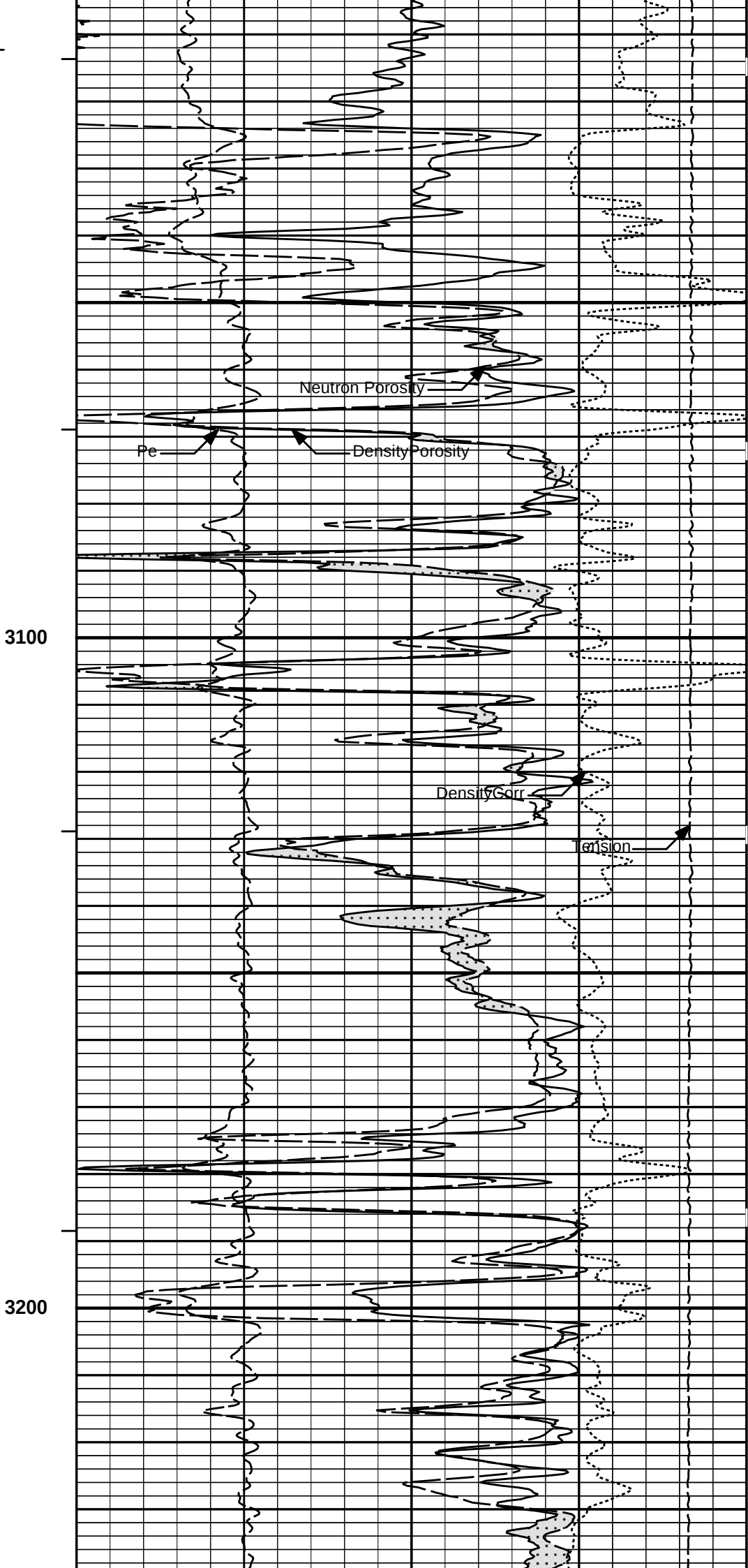
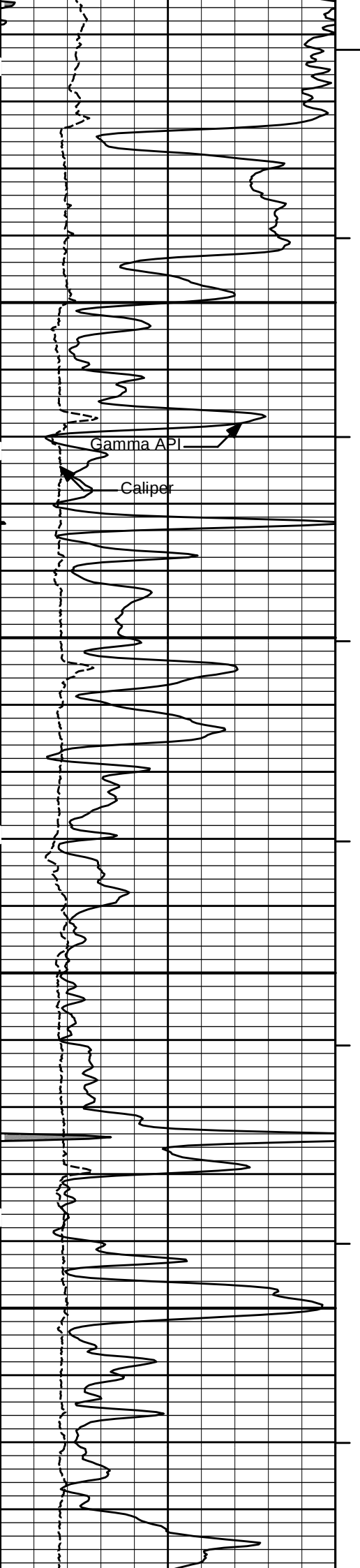


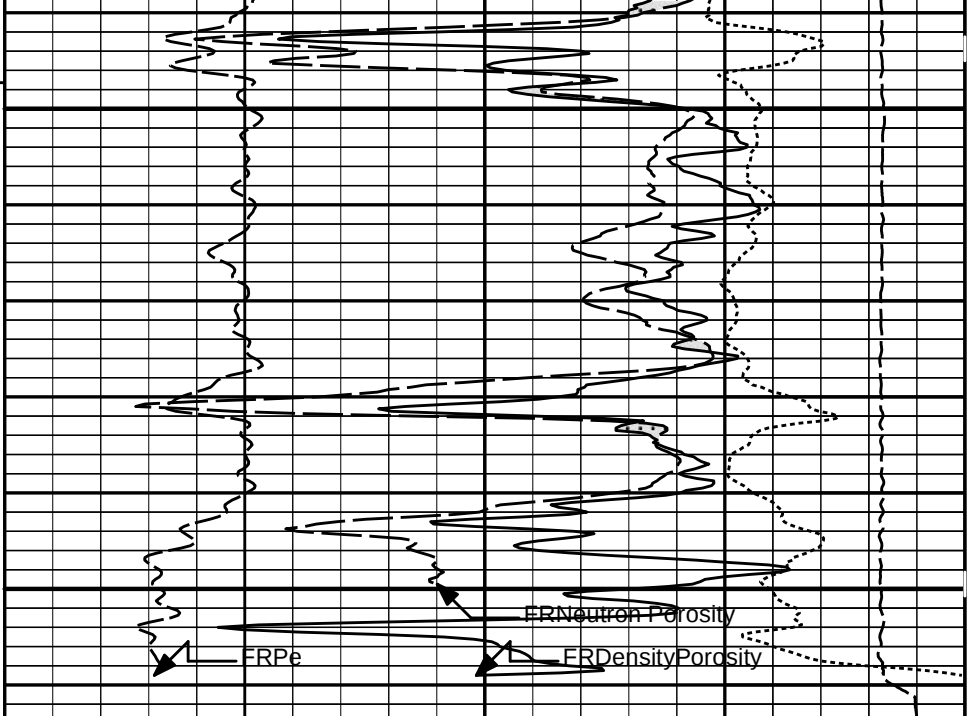
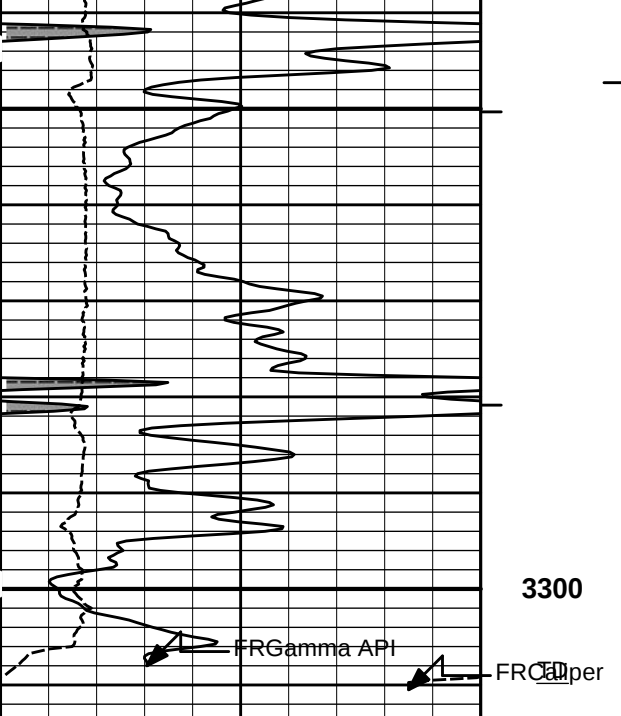












6	Caliper	16
	inches	
0	Gamma API	150
	api	
	SHALE	

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: 08-Mar-17 12:49:32
Plot Range: 1330 ft to 3313.67 ft
Data: LEGHORN_1-22\Well Based*\
Plot File: \\PORO\Porosity_Q_5_MAIN_LIB

5 INCH MAIN LOG

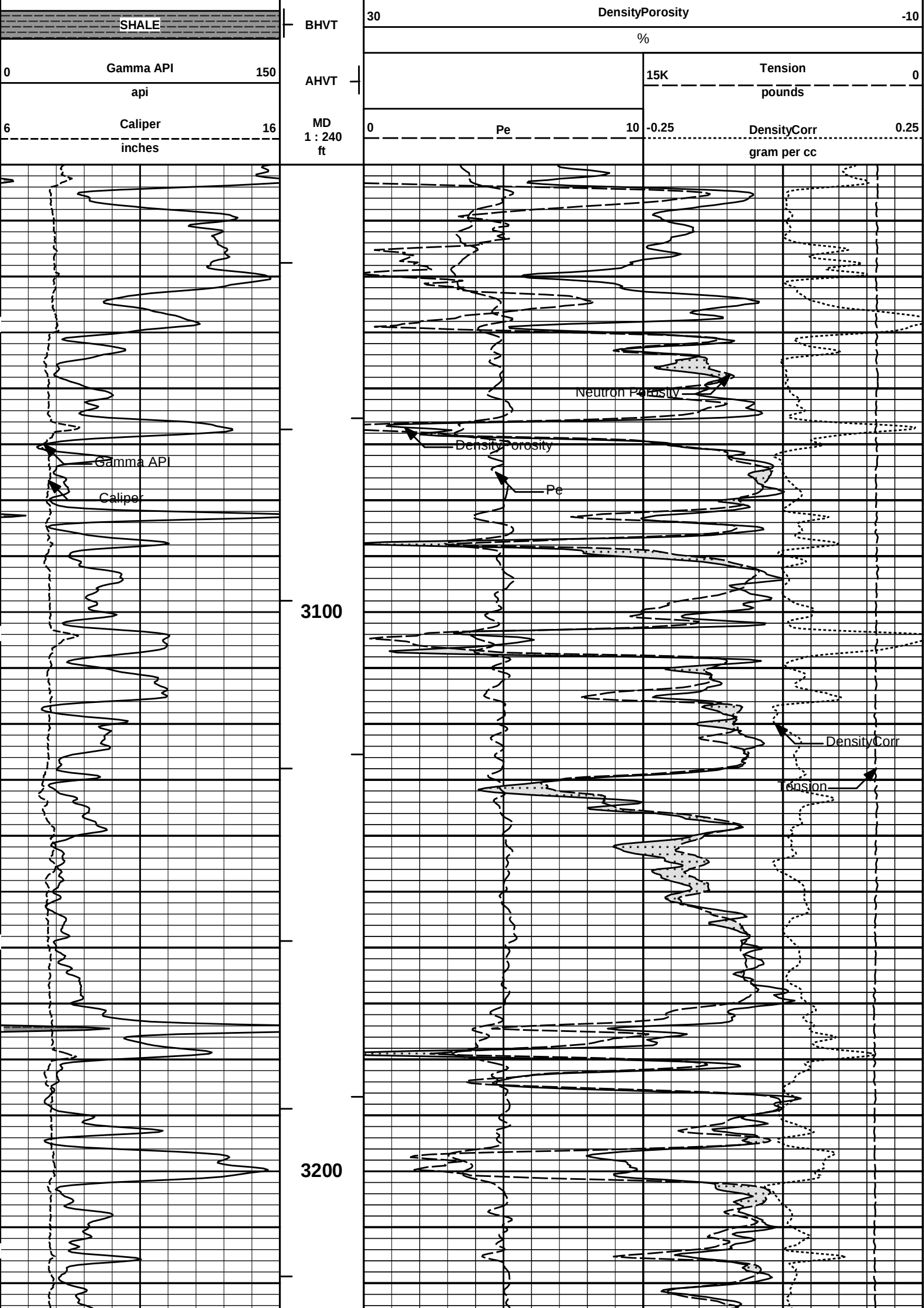
MEASURED DEPTH
MAIN SECTION 5" PER 100'

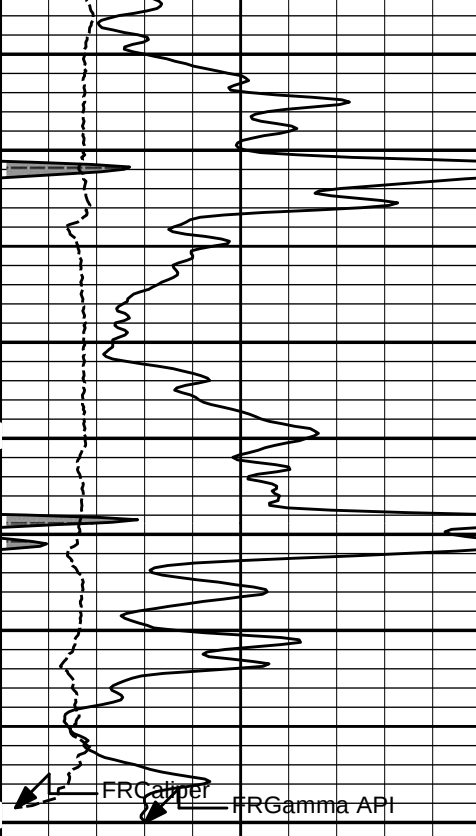
HALLIBURTON

Plot Time: 08-Mar-17 12:49:32
Plot Range: 3020 ft to 3311.75 ft
Data: LEGHORN_1-22\Well Based*\
Plot File: \\PORO\Porosity_Q_5_REP_LIB

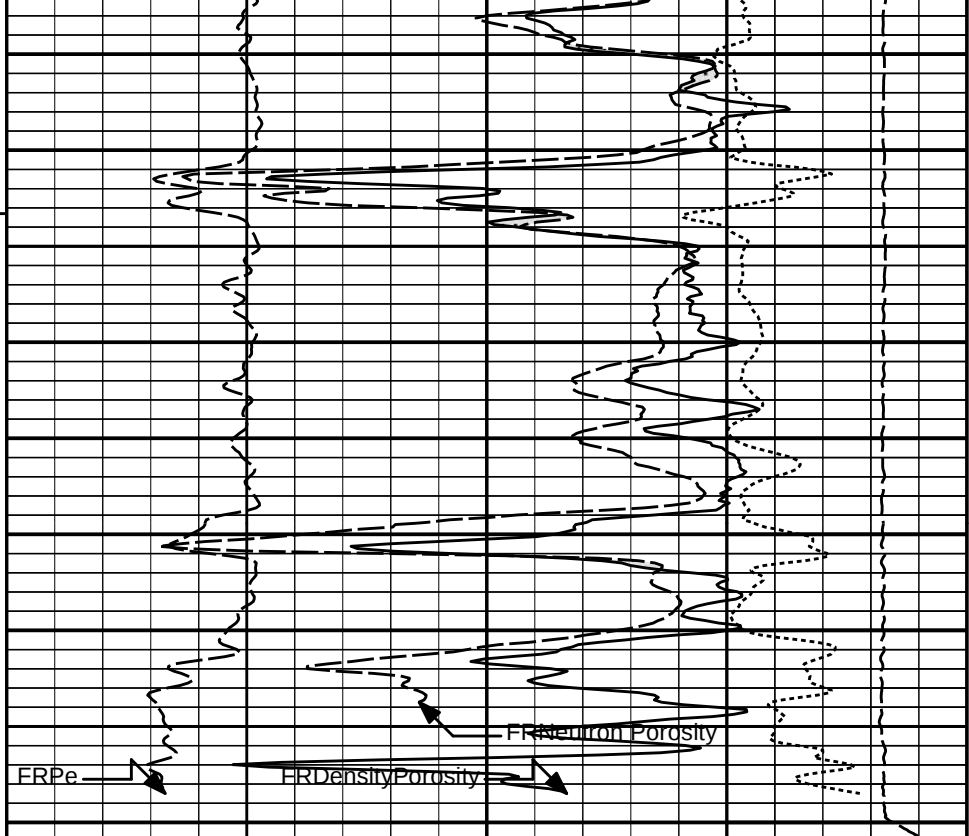
REPEAT SECTION

	CROSSOVER	
30	Neutron Porosity	-10
	%	





3300



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: 08-Mar-17 12:49:34
Plot Range: 3020 ft to 3311.75 ft
Data: LEGHORN_1-22\Well Based*\
Plot File: \\PORO\Poros_IQ_5_REP_LIB

REPEAT SECTION

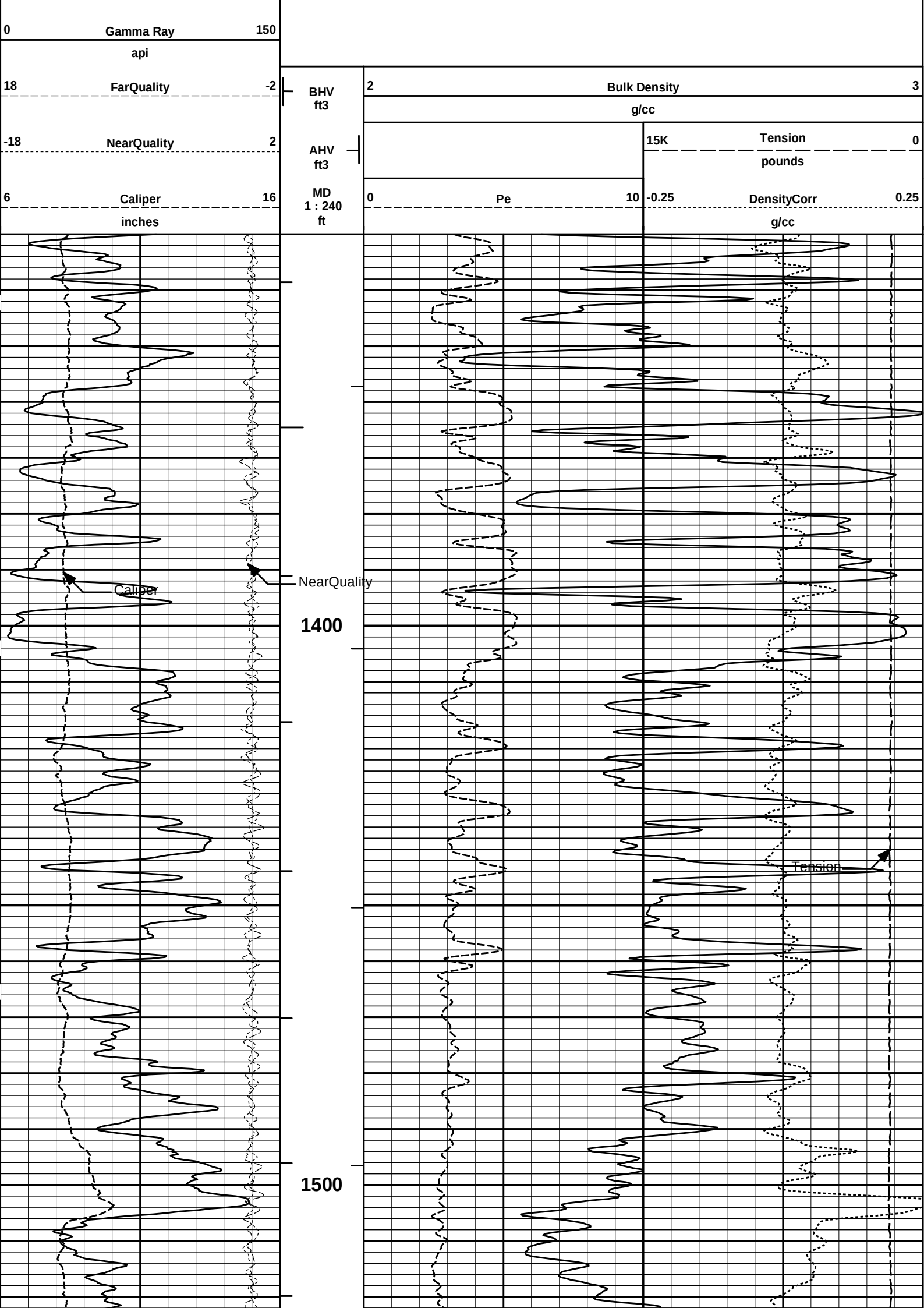
HALLIBURTON

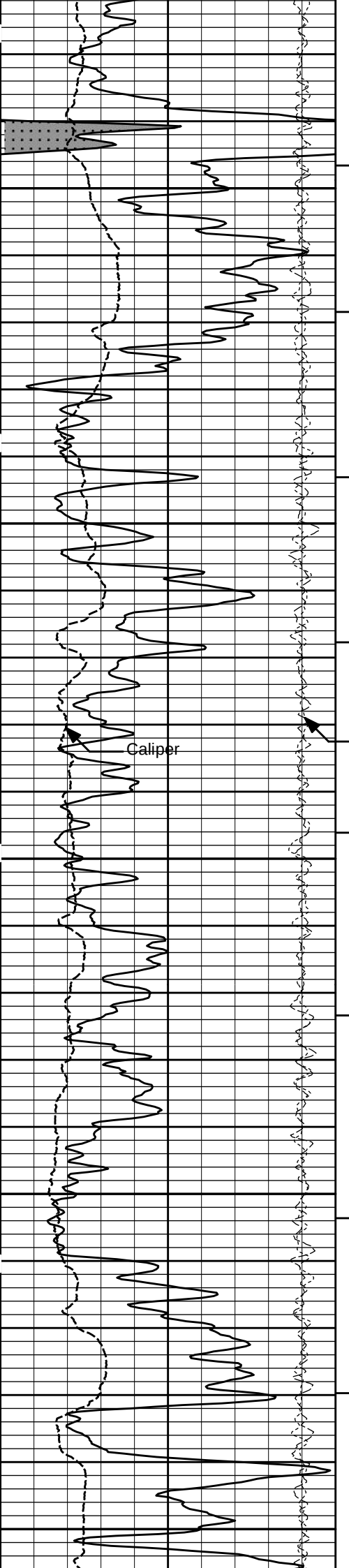
Plot Time: 08-Mar-17 12:49:34
Plot Range: 1330 ft to 3313.67 ft
Data: LEGHORN_1-22\Well Based*\
Plot File: \\LOCAL-LEGHORN_1-22\0003 GTET-BSAT-ACRT\PORO\BULKD_5_MAIN_LIB

5 INCH MAIN LOG

MEASURED DEPTH
MAIN SECTION 5" PER 100'

SHALE



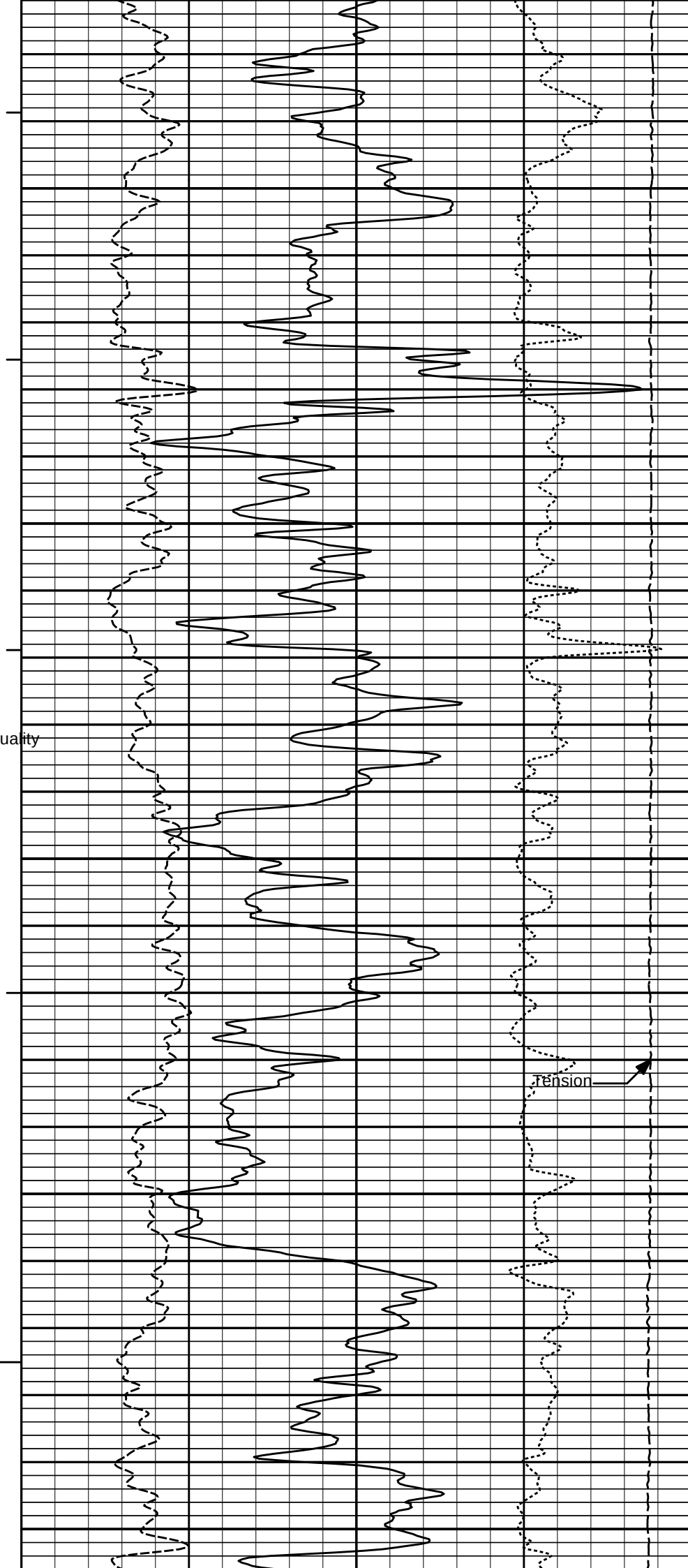


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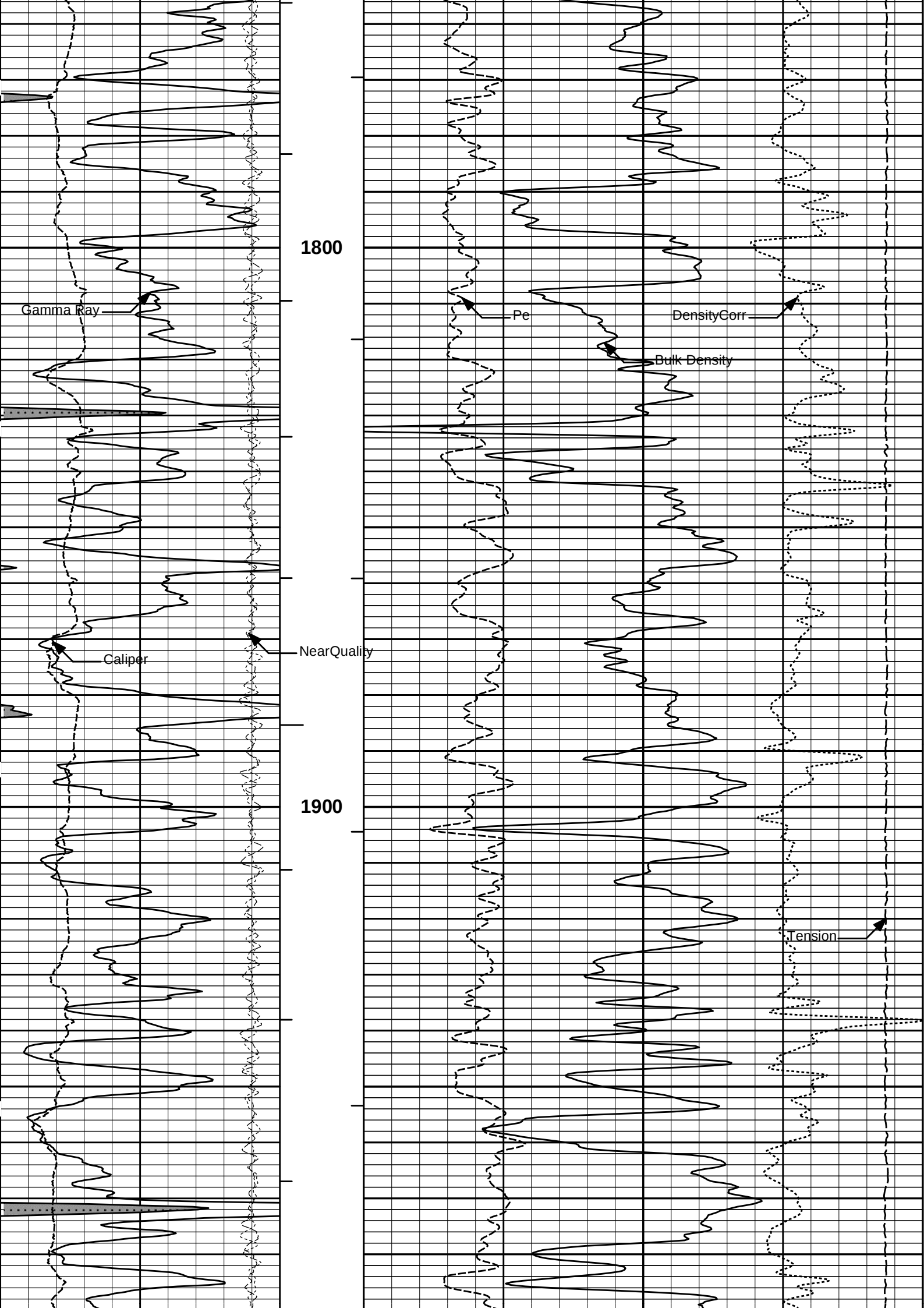
Caliper

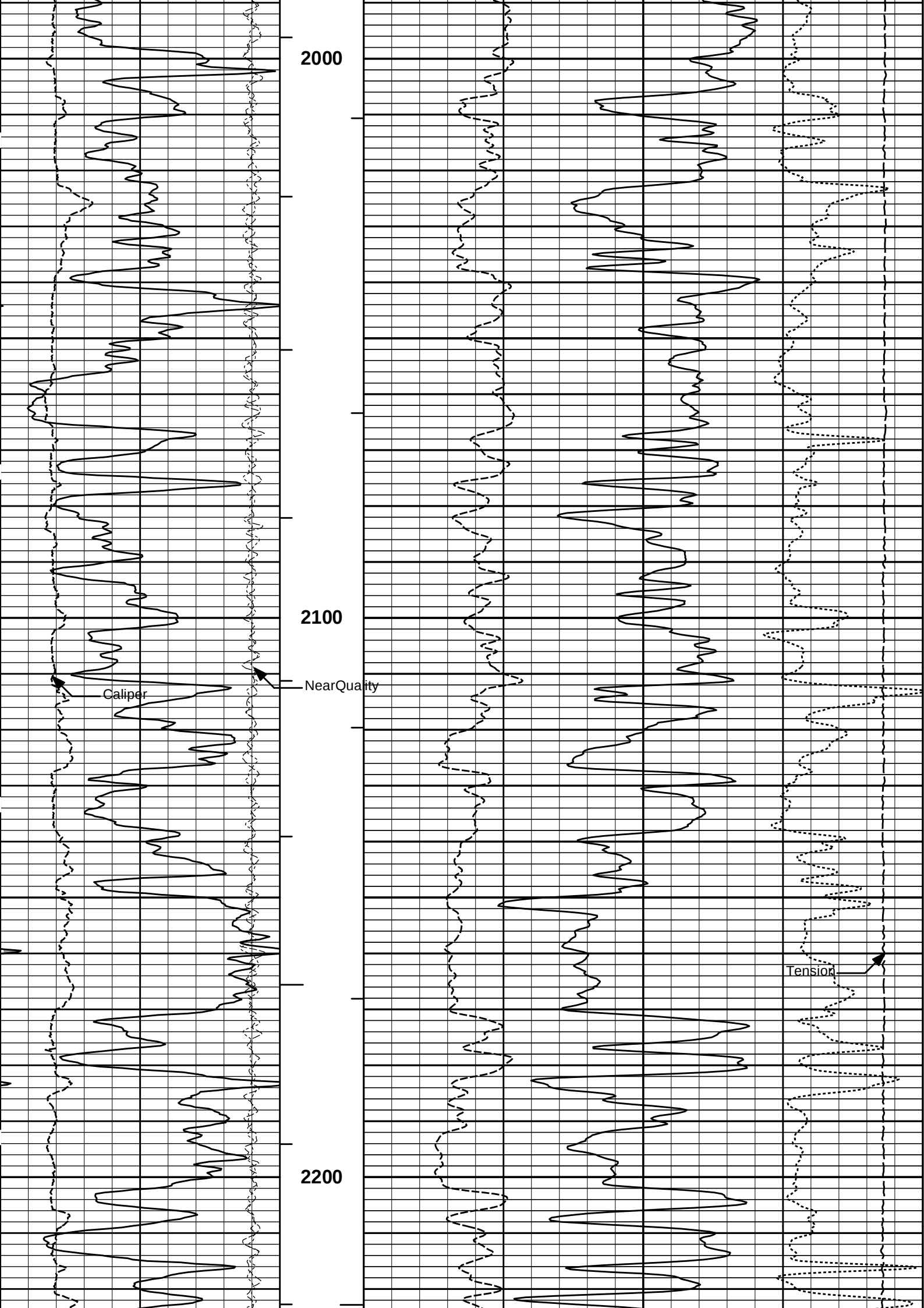
NearQuality

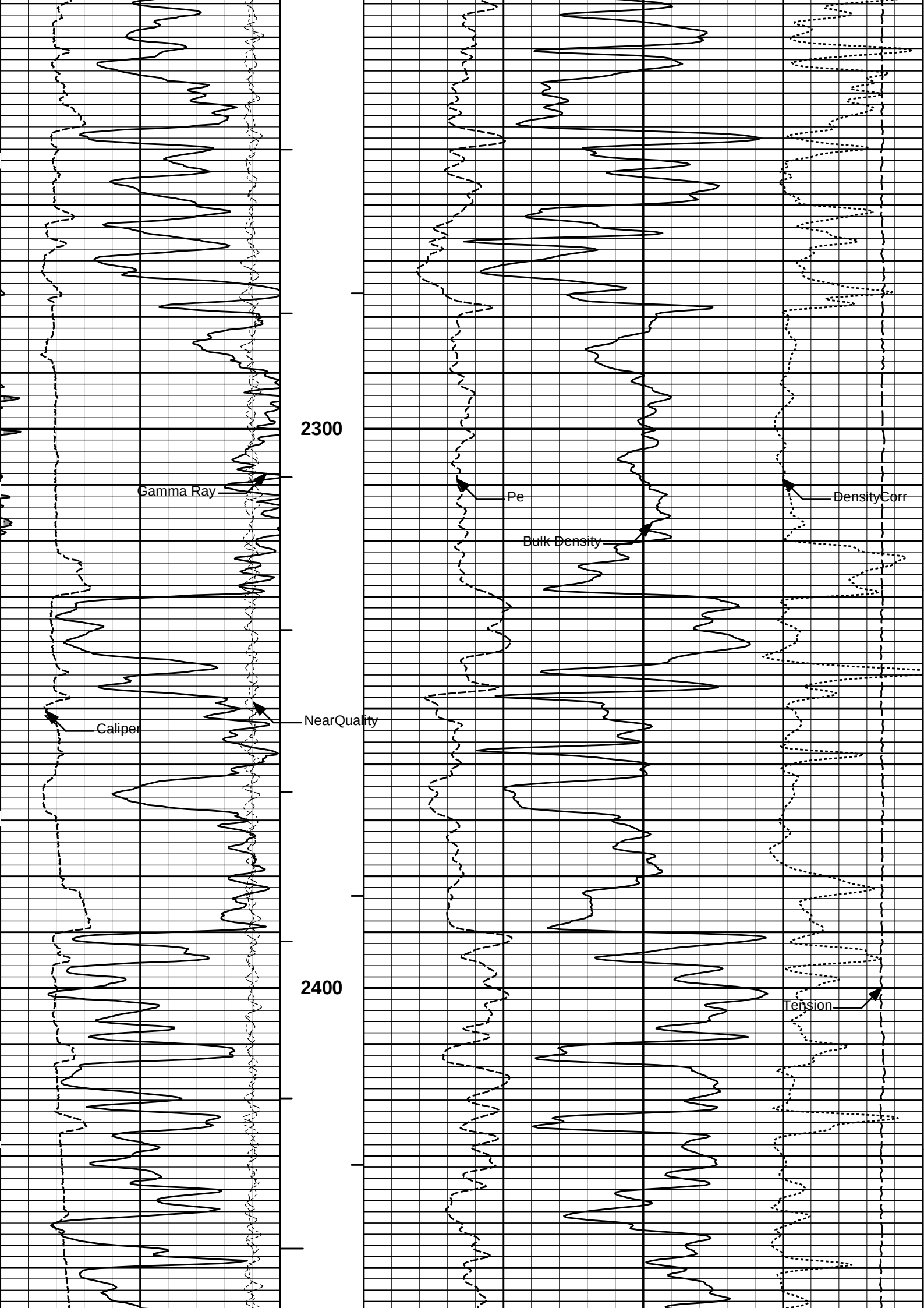
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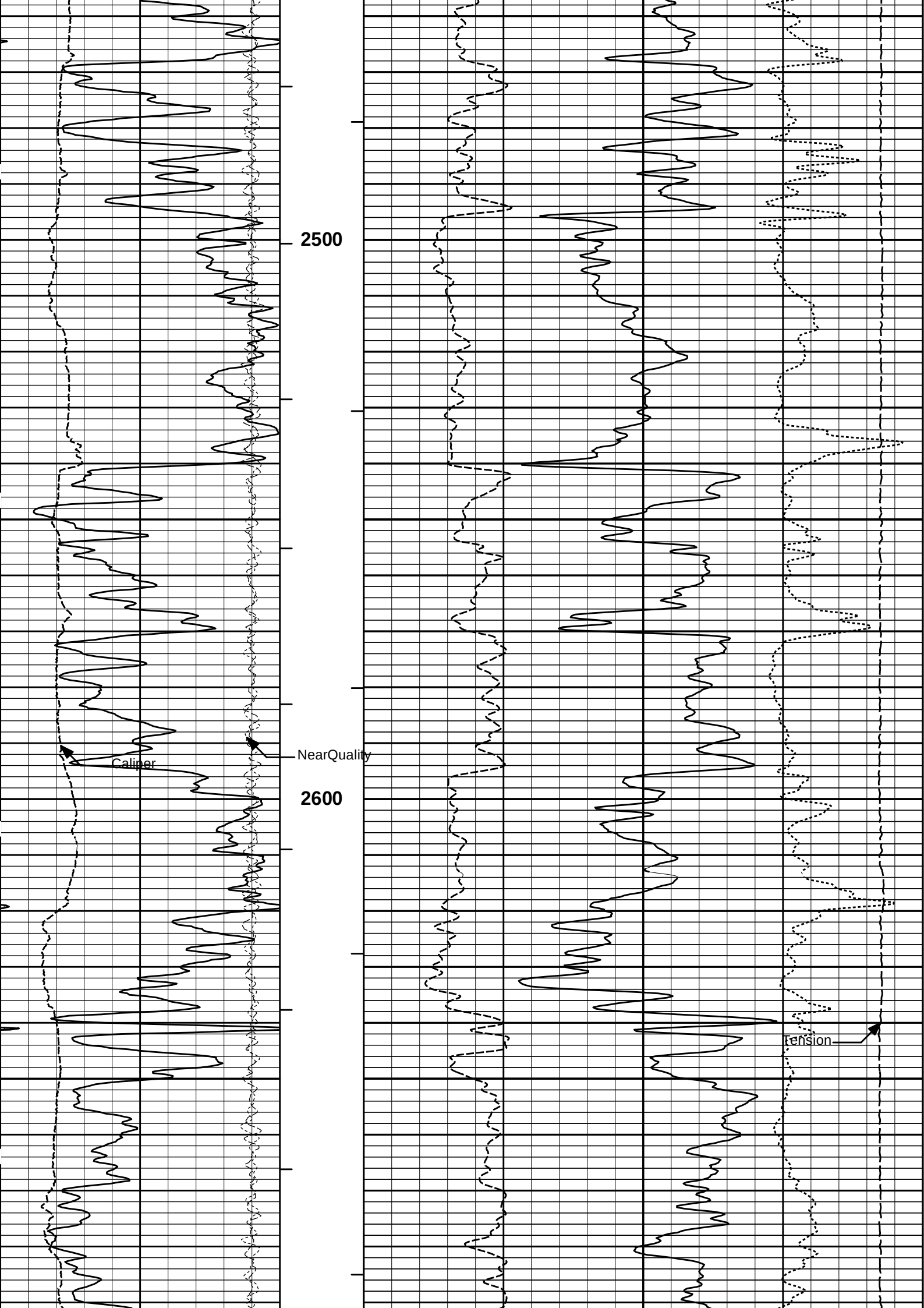


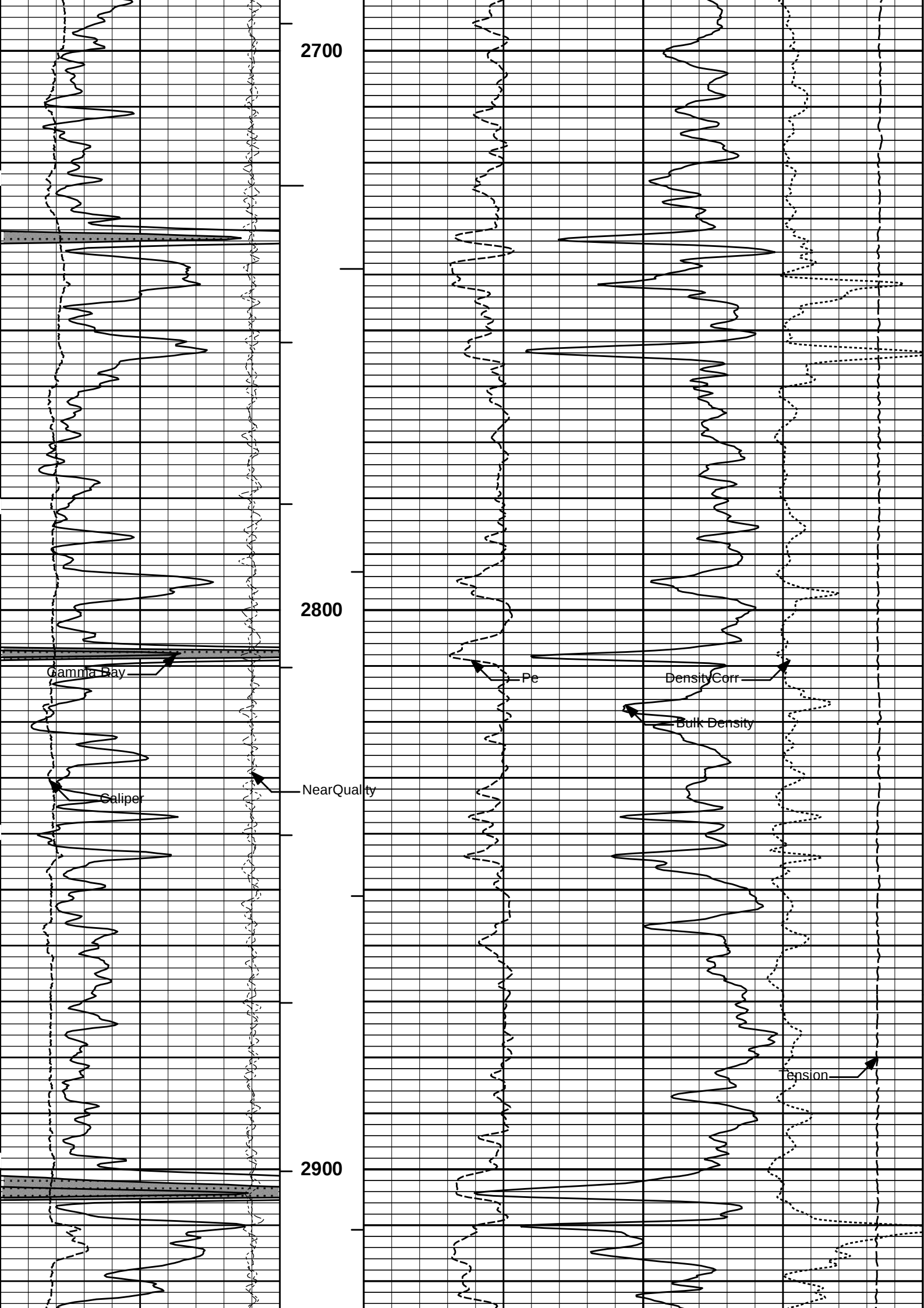
Tension

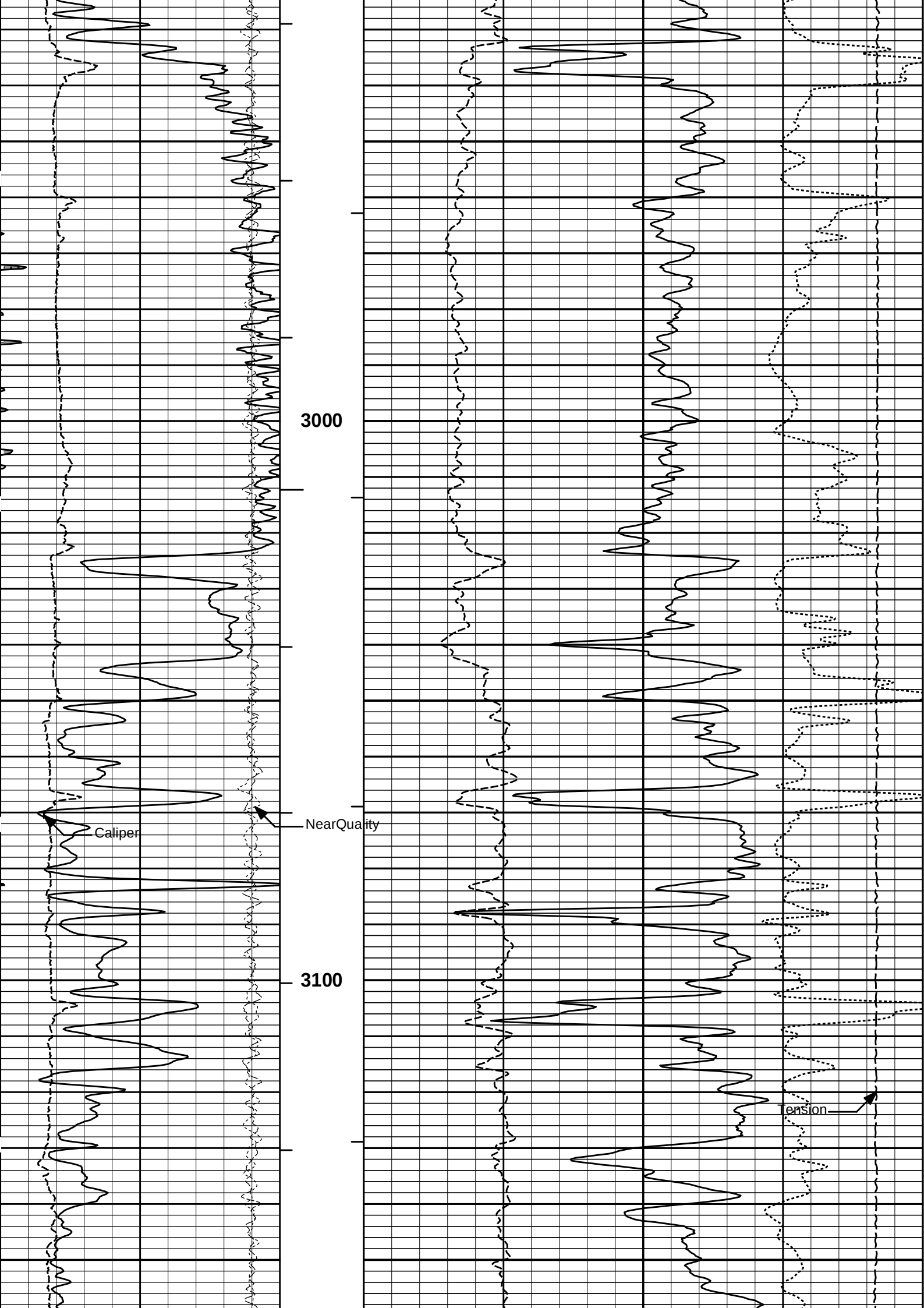


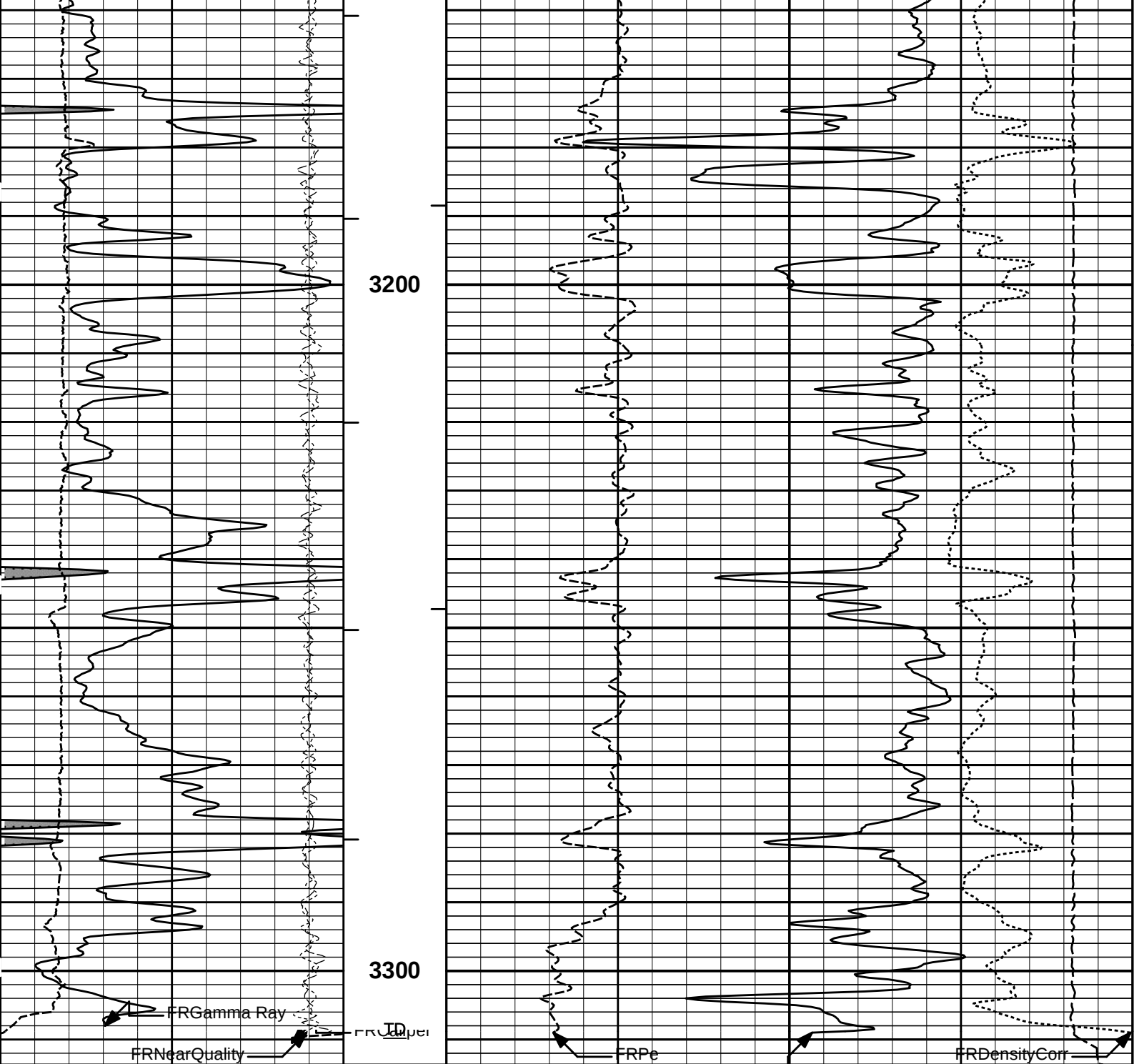












6	Caliper	16	MD	0	Pe	10	-0.25	DensityCorr	0.25
	inches		1 : 240					g/cc	
-18	NearQuality	2	AHV				15K	Tension	0
			ft3					pounds	
18	FarQuality	-2	BHV	2	Bulk Density				
			ft3		g/cc				
0	Gamma Ray	150							
	api								
	SHALE								

HALLIBURTON

Plot Time: 08-Mar-17 12:49:36
Plot Range: 1330 ft to 3313.67 ft
Data: LEGHORN_1-22\Well Based*
Plot File: \\-LOCAL-\\LEGHORN_1-22\\0003 GTET-BSAT-ACRT\\PORO\\BULKD_5_MAIN_LIB

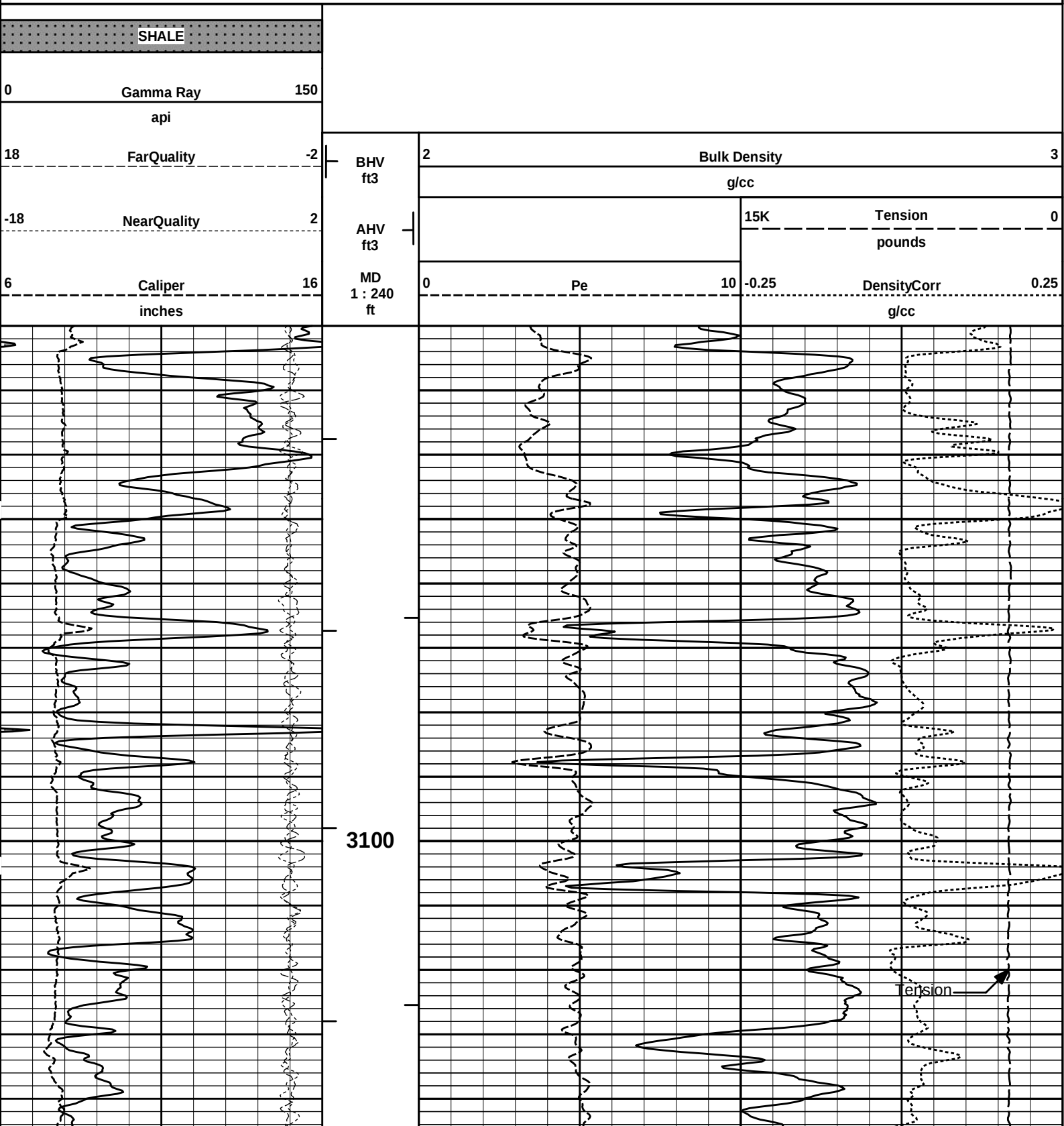
5 INCH MAIN LOG

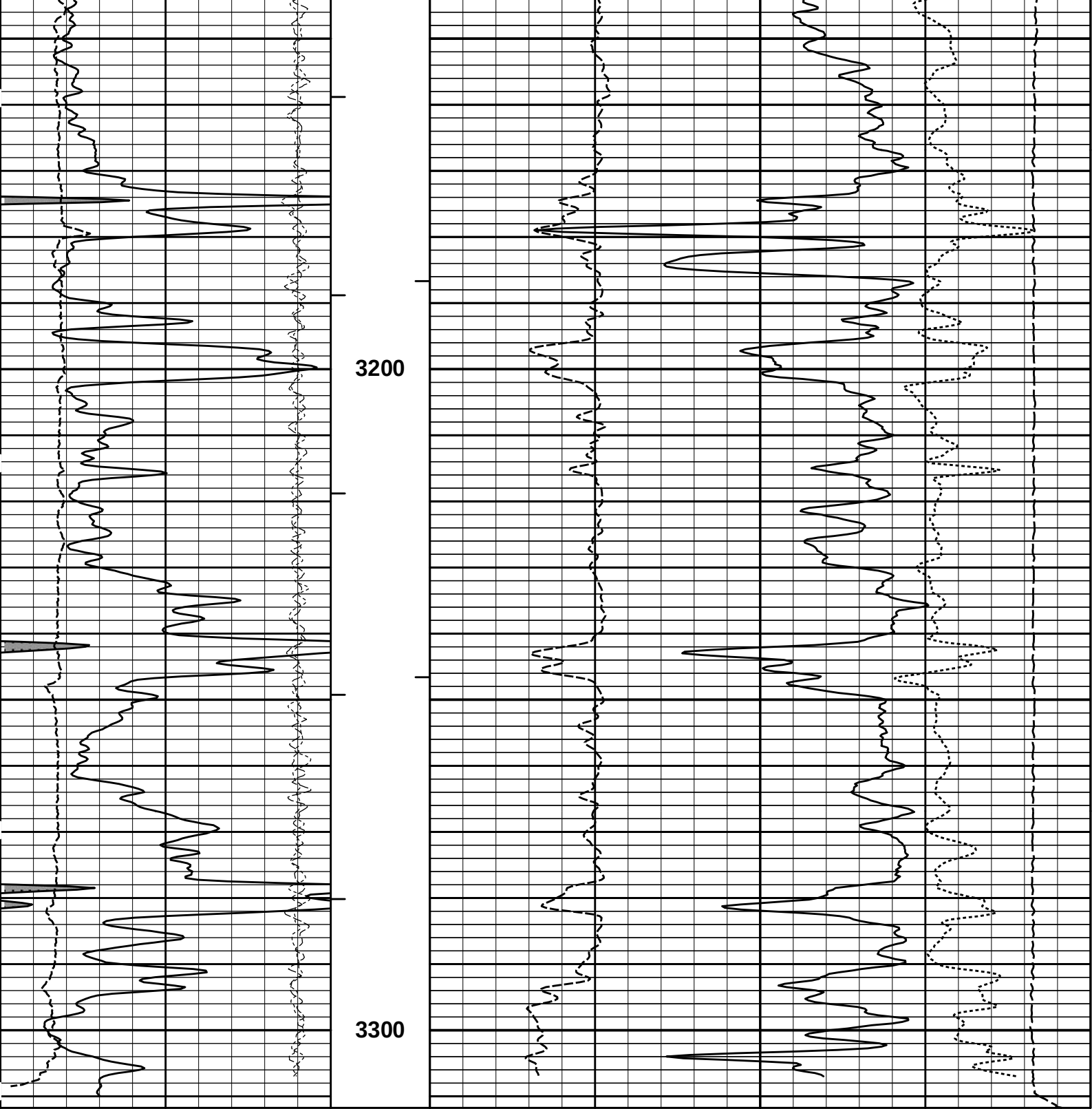
MEASURED DEPTH
MAIN SECTION 5" PER 100'

HALLIBURTON

Plot Time: 08-Mar-17 12:49:37
Plot Range: 3020 ft to 3311.75 ft
Data: LEGHORN_1-22\Well Based*
Plot File: \\LOCAL-LEGHORN_1-22\0003 GTET-BSAT-ACRT\PORO\BULKD 5 REP LIB

REPEAT SECTION





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

HALLIBURTON

Plot Time: 08-Mar-17 12:49:38
Plot Range: 3020 ft to 3311.75 ft
Data: LEGHORN_1-22\Well Based*
Plot File: \\-LOCAL-\\LEGHORN_1-22\\0003 GTET-BSAT-ACRT\\PORO\\BULKD_5_REP_LIB

REPEAT SECTION

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:	GTET - 11013114	Reference Calibration Date:	03-Jan-17 10:45:31
Engineer:	THOMAS HYDE	Calibration Date:	15-Feb-17 11:45:58
Software Version:	WL INSITE R5.0.5 (Build 8)	Calibration Version:	1

Calibrator Source S/N: TB-146
Calibrator API Reference:265.00 api
Equivalent Calibrator API Reference:269.6 api

Measurement	Measured	Calibrated	Units
Background	34.7	35.1	api
Background + Calibrator	301.7	304.7	api
Calibrator	266.9	269.6	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name:	GTET - 11013114	Reference Calibration Date:	15-Feb-17 11:45:58
Engineer:	THOMAS HYDE	Calibration Date:	06-Mar-17 09:20:23
Software Version:	WL INSITE R5.0.5 (Build 8)	Calibration Version:	1

Calibrator Source S/N: TB-146
Calibrator API Reference:265.00 api
Equivalent Calibrator API Reference:269.6 api

Field Verification	Shop	Field	Units
Background	35.1	42.9	api
Background + Calibrator	304.7	314.5	api
Calibrator	269.6	271.6	api

Shop	Field	Difference	Tolerance
269.6	271.6	-2.0	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name:	DSNT2 - 10993115	Reference Calibration Date:	30-Dec-16 11:16:49
Engineer:	THOMAS HYDE	Calibration Date:	15-Feb-17 10:08:17
Software Version:	WL INSITE R5.0.5 (Build 8)	Calibration Version:	1

Logging Source S/N: DSN-424
Tank Serial Number: 12345678
Reference value assigned to Tank: 56.100
Snow Block S/N: 12345678
Calibration Tank Water Temperature: 65 degF
Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS

Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.99555	0.99927	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):	0.2346	0.2358	0.0012	+/- 0.0020
Calibrated Ratio:	10.5202	10.5595	0.039	+/- 0.050

VERIFIER				
Measurement		Value	Control Limit	
Snow-Block Porosity (decp):		0.0773	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:	DSNT2 - 10993115	Reference Calibration Date:	15-Feb-17 10:08:17	
Engineer:	THOMAS HYDE	Calibration Date:	06-Mar-17 10:20:05	
Software Version:	WL INSITE R5.0.5 (Build 8)	Calibration Version:	1	
Logging Source S/N: DSN-424 Snow Block S/N: 12345678				
NEUTRON FIELD-CHECK SUMMARY				
	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0773	0.0660	-0.0112	+/- 0.0150
PASS/FAIL SUMMARY				
Block Change Check:		Passed		
Snow Block Stat Check:		Passed		
Temperature Check:		Passed		

DENSITY CALIPER SHOP CALIBRATION				
Tool Name:	SDLT2 - 10960494	Reference Calibration Date:	30-Dec-16 13:17:47	
Engineer:	THOMAS HYDE	Calibration Date:	15-Feb-17 10:57:19	
Software Version:	WL INSITE R5.0.5 (Build 8)	Calibration Version:	1	
Host Tool Name:	DSNT - 10993115			
CALIBRATION COEFFICIENTS				
Measurement	Previous Value	New Value	Control Limit On New Value	
Pad Offset	-3118.65	-3310.58	-7000.00 - -1000.00	
Pad Gain	0.0003874	0.0003830	0.0002000 - 0.0006000	
Arm Offset	-1858.38	-1958.93	-5000.00 - 3000.00	
Arm Gain	0.0005435	0.0005465	0.000300 - 0.000700	
Arm Power	-0.000006322	-0.000006807	-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)	2.10	2.00	-0.10	+/- 0.20
Medium Ring (in)	3.87	3.75	-0.12	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.62	6.50	-0.12	+/- 0.20
Medium Ring (in)	8.37	8.25	-0.12	+/- 0.20
Large Ring (in)	15.19	15.00	-0.19	+/- 0.20
PASS/FAIL SUMMARY				
Calibration-Coefficients Range Check:		Passed		
Ring-Measurement Check:		Passed		
PASS/FAIL SUMMARY				

Calibration Version: 1

+/- 0.15

Passed

Host Tool Name: DSNT - 10993115

ohmm

V

Calibration Version: 1

ohmm

+/- 0.80

Calibration Version: 1

Logging Source S/N: 020007
Aluminum Block S/N: EL RENO STD ALUMINUM
Magnesium Block S/N: EL RENO

Density: 2.581g/cc
Density: 1.687g/cc

Pe: 3.170
Pe: 2.594

DENSITY CALIBRATION SUMMARY

Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0522	1.0309	0.90 - 1.10
Near Dens Gain	1.0266	1.0231	0.90 - 1.10
Near Peak Gain	1.0431	1.0388	0.90 - 1.10
Near Lith Gain	1.0351	1.0502	0.90 - 1.10
Far Bar Gain	1.0202	1.0155	0.90 - 1.10
Far Dens Gain	1.0076	1.0019	0.90 - 1.10
Far Peak Gain	1.0028	0.9981	0.90 - 1.10
Far Lith Gain	0.9836	0.9787	0.90 - 1.10
Near Bar Offset	-0.1880	0.0062	NONE
Near Dens Offset	0.0170	0.0482	NONE
Near Peak Offset	-0.1345	-0.0962	NONE
Near Lith Offset	-0.0683	-0.1934	NONE
Far Bar Offset	0.0609	0.0977	NONE
Far Dens Offset	0.1544	0.2046	NONE
Far Peak Offset	0.1901	0.2284	NONE
Far Lith Offset	0.3223	0.3594	NONE
Near Bar Background	740.53	739.74	700 - 1450
Near Dens Background	243.10	242.61	230 - 480
Near Peak Background	106.54	104.86	100 - 210
Near Lith Background	128.74	129.75	125 - 260
Far Bar Background	480.78	481.43	450 - 900
Far Dens Background	187.67	189.84	175 - 345
Far Peak Background	74.66	74.90	70 - 140
Far Lith Background	77.43	77.43	75 - 145

CALIBRATION BLOCK SUMMARY

Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.683	1.687	0.004	+/- 0.015
Pe	2.563	2.551	-0.012	+/- 0.150
ALUMINUM				
Density (g/cc)	2.580	2.581	0.001	+/- 0.01500
Pe	3.088	3.123	0.035	+/- 0.150

TOOL SUMMARY

Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	-0.0008	+/- 0.0110	-0.0038	+/- 0.0140
Magnesium Block	-0.0015	+/- 0.0110	-0.0003	+/- 0.0140
Aluminum Block	0.0007	+/- 0.0110	0.0007	+/- 0.0140
Resolution	9.64	6.00 - 11.50	8.97	6.00 - 11.50
Internal Verifier(B+D+P+L)	1217	1200 - 2700	824	800 - 1700

PASS/FAIL SUMMARY

Background Quality Check:	Passed
Background Range Check:	Passed
Background Resolution Check:	Passed
Background Verification Check:	Passed

Background Radiation 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 Pad2 - 10844781	Reference Calibration Date:	15-Feb-17 10:34:52
Engineer:	THOMAS HYDE	Calibration Date:	06-Mar-17 09:51:21
Software Version:	WL INSITE R5.0.5 (Build 8)	Calibration Version:	1

Pad Temperature: 71.6 degF				
DENSITY FIELD CALIBRATION SUMMARY				
Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1216.954	1211.367	-5.587	14.156
Far (B+D+P+L) cps	823.596	820.291	-3.305	15.823
Near Resolution	9.64	9.62	-0.020	0.50
Far Resolution	8.97	8.71	-0.260	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-11013114						
Gamma Ray Calibrator	269.6	271.6	-----	-2.0	+/- 9.00	api
DSNT2-10993115						
Snow-Block Porosity	0.0773	0.0660	-----	0.0113	+/- 0.0150	decp
SDLT2-10960494						
Pad Extension	3.75	3.96	-----	-0.21	+/-0.10	in
Ring Diameter	8.25	8.26	-----	-0.01	+/-0.15	in
Microlog Pad2-10960494						
MicroLog Normal	19.82	19.80	-----	0.02	+/-0.80	ohmm
MicroLog Lateral	19.96	19.95	-----	0.01	+/-0.80	ohmm
SDLT Pad2-10844781						
Near(B+D+P+L)	1216.954	1211.367	-----	5.587	+/-14.156	cps
Far(B+D+P+L)	823.596	820.291	-----	3.305	+/-15.823	cps
Data: LEGHORN_1-22I0002 GTET-DSN2-SDL2IDLE					Date: 08-Mar-17 10:10:24	

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	9.100	ppg
	SHARED	WAGT	Weighting Agent	Natural	
	SHARED	BSAL	Borehole salinity	0.00	ppm
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%

SHARED	RMUD	Mud Resistivity	2.000	ohmm
SHARED	TRM	Temperature of Mud	75.0	degF
SHARED	CSD	Logging Interval is Cased?	No	
SHARED	ICOD	AHV Casing OD	5.500	in
SHARED	CSTR	Compressive Strength	1000.00	psia
SHARED	ST	Surface Temperature	75.0	degF
SHARED	TD	Total Well Depth	3310.00	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	CBM Temperature Master Tool	GTET	
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	
Rwa / CrossPlot	BHSM	Borehole Size Source Tool	SDLT2	
Rwa / CrossPlot	ROIN	Input for RO Calculation	Rwa	
GTET	GROK	Process Gamma Ray?	Yes	
GTET	GEOK	Process Gamma Ray EVR?	No	
GTET	TPOS	Tool Position for Gamma Ray Tools.	Eccentered	
GTET	BHSM	Borehole Size Source Tool	SDLT2	
DSNT2	DNOK	Process DSN?	Yes	
DSNT2	DEOK	Process DSN EVR?	No	
DSNT2	NLIT	Neutron Lithology	Limestone	
DSNT2	DNSO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.250	in
DSNT2	DNTT	Temperature Correction Type	None	
DSNT2	DPRS	DSN Pressure Correction Type	None	
DSNT2	SHCO	View More Correction Options	No	
DSNT2	UTVD	Use TVD for Gradient Corrections?	No	
DSNT2	LHWT	Logging Horizontal Water Tank?	No	
DSNT2	BHSM	Borehole Size Source Tool	SDLT2	
SDLT2	CLOK	Process Caliper Outputs?	Yes	
Microlog Pad2	MLOK	Process MicroLog Outputs?	Yes	
SDLT Pad2	DNOK	Process Density?	Yes	
SDLT Pad2	DNOK	Process Density EVR?	No	
SDLT Pad2	CB	Logging Calibration Blocks?	No	
SDLT Pad2	SPVT	SDLT Pad Temperature Valid?	Yes	
SDLT Pad2	DTWN	Disable temperature warning	No	
SDLT Pad2	DMA	Formation Density Matrix	2.710	g/cc
SDLT Pad2	DFL	Formation Density Fluid	1.000	g/cc
SDLT Pad2	BHSM	Borehole Size Source Tool	SDLT2	
BOTTOM				
Data: LEGHORN_1-2210002 GTET-DSN2-SDLT2IDLE				Date: 08-Mar-17 12:20:57

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description		O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
CH_HOS-11459024 37.50 lbs		Ø 2.750 in →		← Temperature @ 36.04 ft	2.50 ft	36.54 ft
XOHD-11572809 20.00 lbs		Ø 2.750 in → Ø 3.625 in →			0.95 ft	34.04 ft
SP Sub-11441455 60.00 lbs		Ø 3.625 in →		← SP @ 31.31 ft	3.74 ft	33.09 ft
				← Z-Accelerometer @ 28.90 ft		29.35 ft
GTET-11013114 165.00 lbs		Ø 3.625 in →		← GammaRay @ 23.29 ft	8.52 ft	
						20.83 ft
DSNT2-10993115 174.00 lbs	DSN Decentralizer- 10993115 6.60 lbs	Ø 5.000 in* → Ø 3.625 in →		← DSN Far @ 13.90 ft ← DSN Near @ 13.15 ft	9.69 ft	
						11.15 ft
SDLT2-10960494 360.00 lbs	SDLT Pad2-10844781 65.00 lbs Microlog Pad2-10960494 8.00 lbs	Ø 4.500 in → Ø 4.500 in* → Ø 4.750 in* →		Microlog @ 3.33 ft SDL Caliper @ 3.15 ft SDL @ 3.14 ft	10.81 ft	
						0.33 ft
Bull Nose-12345678 5.00 lbs		Ø 2.750 in →			0.33 ft	0.00 ft

Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
CH_HOS	Hostile Cable Head with Load Cell	11459024	37.50	2.50	34.04	300.00
XOHD	Hostile to Dits Cross Over	11572809	20.00	0.95	33.09	300.00
SP	SP Sub	11441455	60.00	3.74	29.35	300.00
GTET	Gamma Telemetry Tool	11013114	165.00	8.52	20.83	60.00
DSNT	Dual Spaced Neutron	10993115	174.00	9.69	11.15	60.00
DCNT	DSN Decentralizer	10993115	6.60	5.13 *	14.48	300.00
SDLT	Spectral Density Tool	10960494	360.00	10.81	0.33	60.00
SDLP	Density Insite Pad	10844781	65.00	2.55 *	2.54	60.00
MICP	Microlog Pad	10960494	8.00	1.00 *	2.83	60.00
BLNS	Bull Nose	12345678	5.00	0.33	0.00	300.00
Total			901.10	36.54		
* Not included in Total Length and Length Accumulation.						
Data: LEGHORN_1-22\0002 GTET-DSN2-SDL2\IDLE					Date: 08-Mar-17 10:04:57	

COMPANY	CMX, INC.		
WELL	LEGHORN #1-22		
FIELD	CHASE-SILICA		
COUNTY	BARTON	STATE	KANSAS

HALLIBURTON

DUAL SPACED NEUTRON
SPECTRAL DENSITY
LOG