

HALLIBURTON

DUAL SPACED NEUTRON SPECTRAL DENSITY LOG

COMPANY		STRATA EXPLORATION	
WELL		STAPLETON 6-10	
FIELD		DIADEN	
COUNTY		HASKELL	
STATE		KANSAS	
Permanent Datum	GL	Sect. 10	Twp. 30S
Log measured from	KB		Rge. 32W
Drilling measured from	KB		Elev. 2891.0 ft
Date	23-Aug-11		Elev. K.B. 2904.0 ft
Run No.	ONE		D.F. 2903.0 ft
Depth - Driller	5625.00 ft		GL. 2891.0 ft
Depth - Logger	5620.0 ft		
Bottom - Logged Interval	5597 ft		
Top - Logged Interval	4000 ft		
Casing - Driller	8.625 in @ 1846.0 ft		
Casing - Logger	1843.0 ft		
Bit Size	7.875 in		
Type Fluid in Hole	WATER BASED MUD		
Density	9.1 ppq	60.00	s/qt
PH	9.50	9.2	pH
Source of Sample	FLOW LINE		
Rm @ Meas. Temperature	0.740 ohmm	@	110.00 degF
Rmf @ Meas. Temperature	0.60 ohmm	@	100.00 degF
Rmc @ Meas. Temperature	0.900 ohmm	@	100.00 degF
Source Rmf	MEASURED		MEASURED
Rm @ BHT	0.63 ohmm	@	130.0 degF
Time Since Circulation	3.8 hr		
Time on Bottom	23-Aug-11 21:00		
Max. Rec. Temperature	130.0 degF	@	5620.0 ft
Equipment	10782954		LIBERAL
Recorded By	C. MARLOWE		
Witnessed By	J. CHRISTENSEN		
			B. KINNEY

Fold here

Service Ticket No.: 8417580		API Serial No.: 15-081-21959		PGM Version: WL INSITE R3.2.5 (Build 2)	
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE			RESISTIVITY SCALE CHANGES		
Date	Sample No.		Type Log	Depth	Scale Up Hole
Depth-Driller					Scale Down Hole
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
Rmf @ Meas. Temp.	@	@			Tool Pos.
Rmc @ Meas. Temp.	@	@			Other
Source Rmf	Rmc				N/A
Rm @ BHT	@	@			
Rmf @ BHT	@	@			
Rmc @ BHT	@	@			
EQUIPMENT DATA					
GAMMA		ACOUSTIC		DENSITY	
Run No.	ONE	Run No.		Run No.	ONE
Serial No.	10748374	Serial No.		Serial No.	I066_M85803_P45
Model No.	GTET	Model No.		Model No.	SDLT
Diameter	3.625"	No. of Cent.		Diameter	4.75"
Detector Model No.	T-102	Spacing		Log Type	GAM-GAM
Type	SCINT			Source Type	CS 137
Length	8"	LSA [Y/N]		Serial No.	5073GW
Distance to Source	10'	FWDA [Y/N]		Strength	1.5 CI
LOGGING DATA					
GENERAL		GAMMA		ACOUSTIC	
				DENSITY	
				NEUTRON	

Run No.	Depth		Speed ft/min	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix
	From	To		L	R	L	R		L	R		L	R	
ONE	TD	4000	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 2900 PPM
 SP/GTET/DSNT/SDLT/ACRT RUN IN COMBINATION
 GPS COORDINATES: 37°27' N & 100°48' W

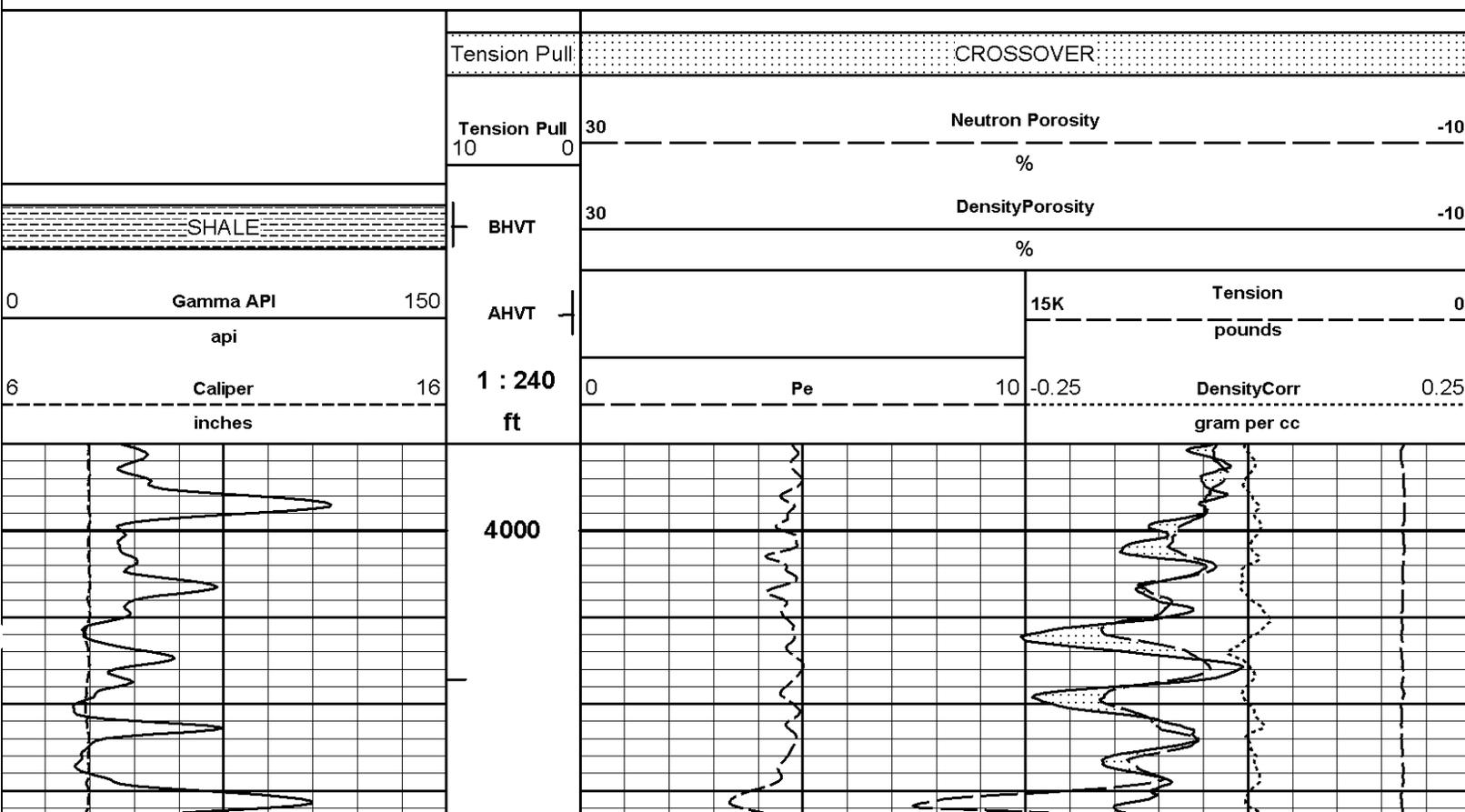
TODAY'S CREW: A. VAQUERA, F. VILLA
 THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES: LIBERAL, KS 620-624-8123

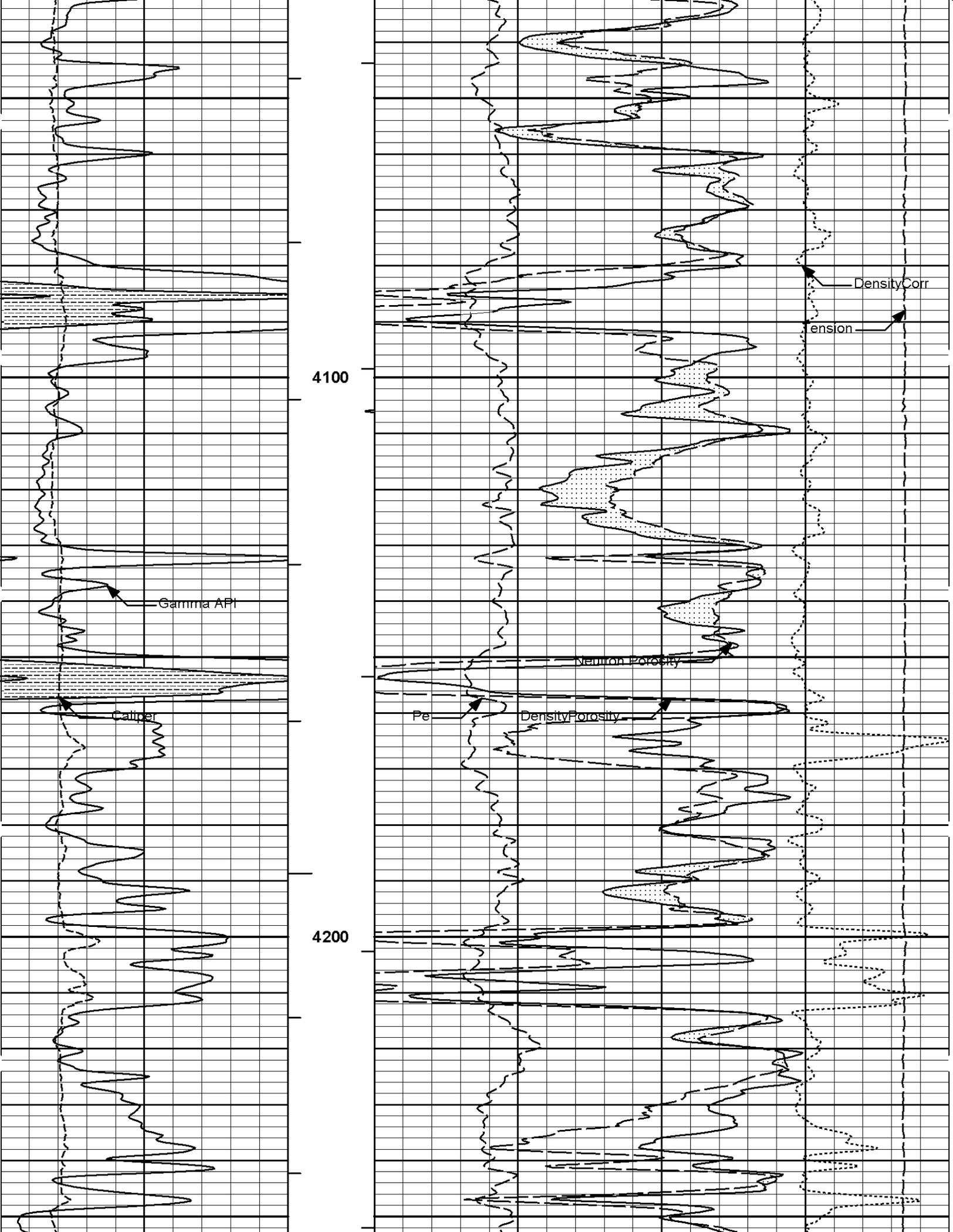
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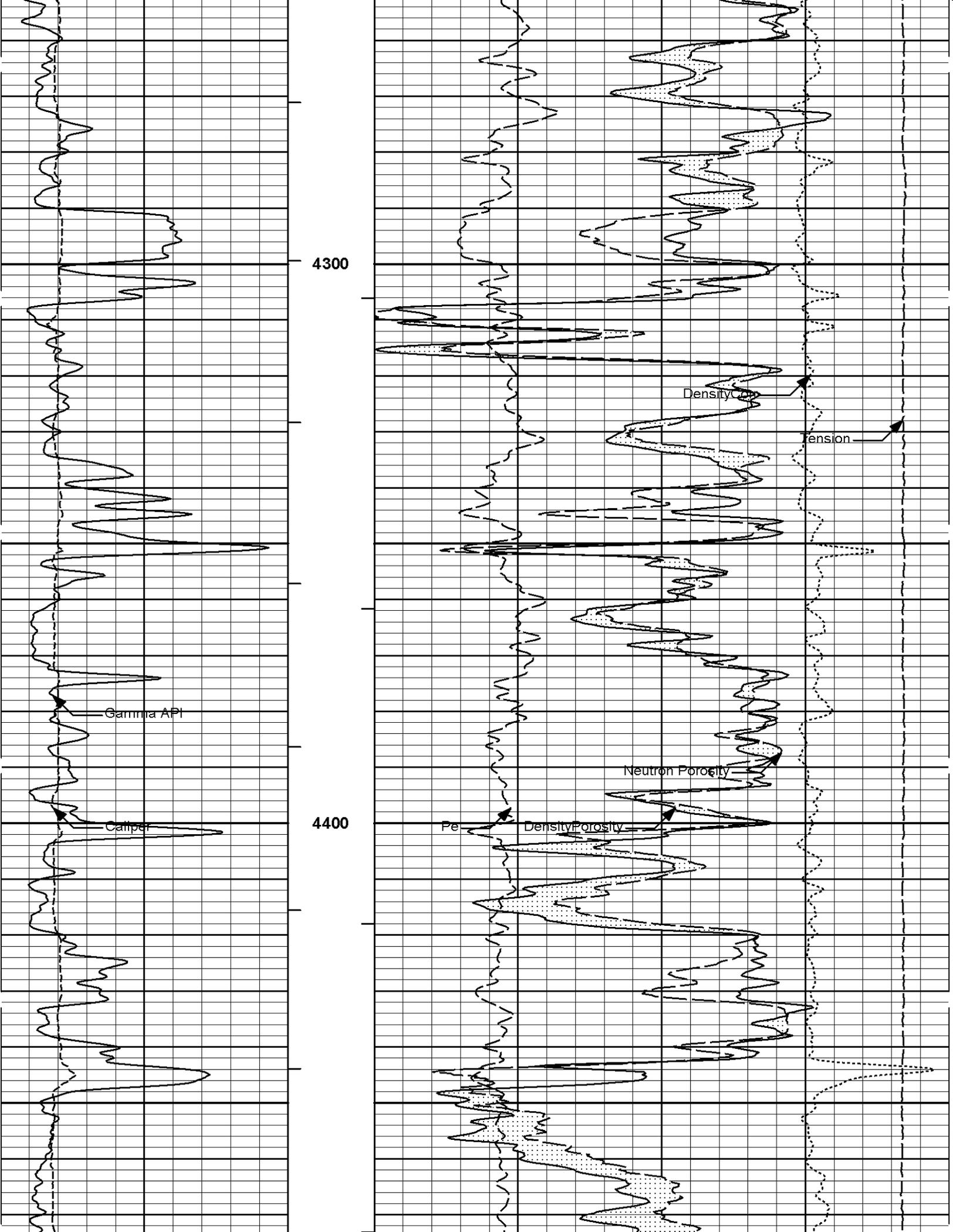
HALLIBURTON

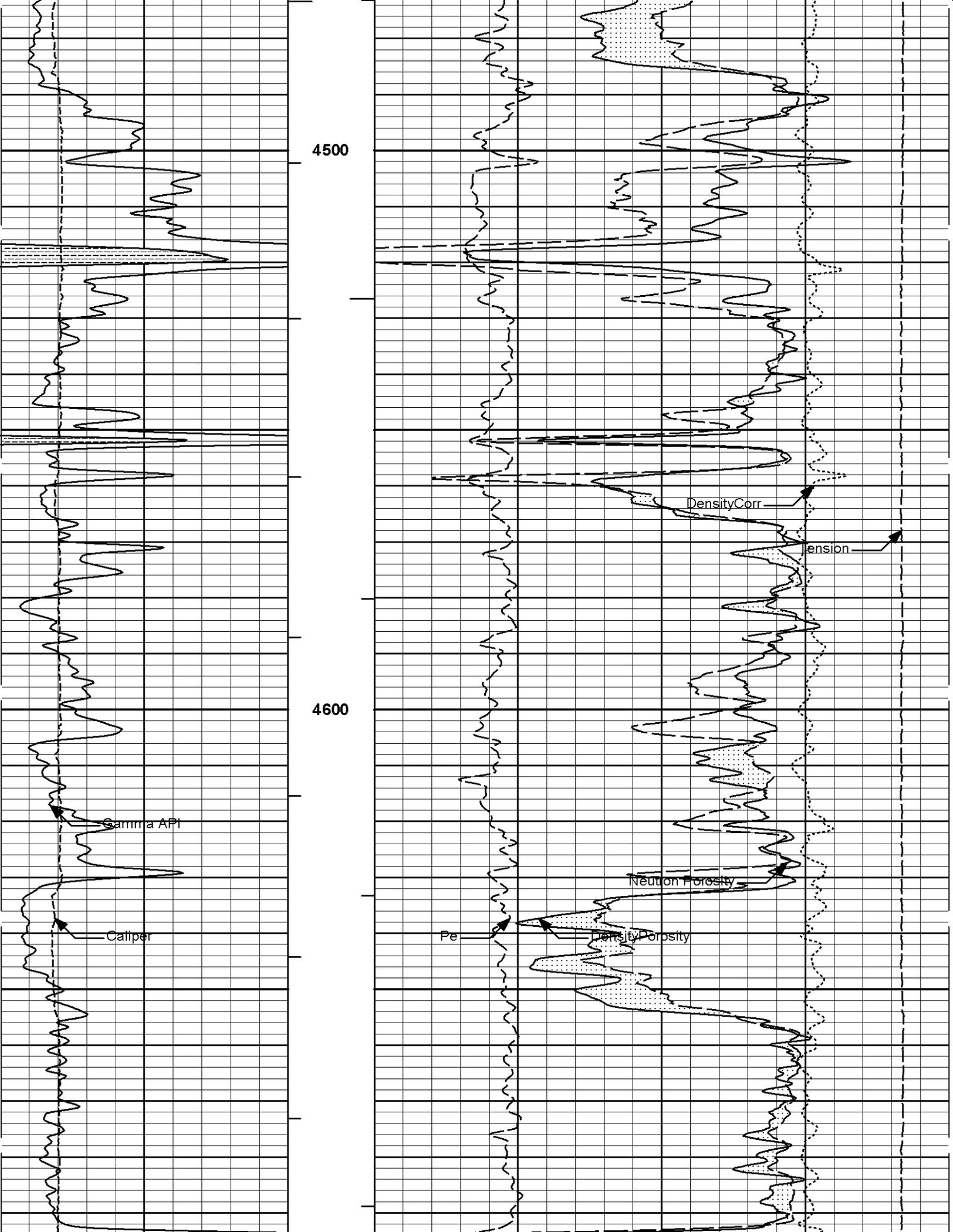
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 Plot Range: 3990 ft to 5625 ft
 Data: STAPLETON_6_10\Well Based\DETAIL\
 Plot File: \\PORO\Poro_IQ_5_MAIN_LIB

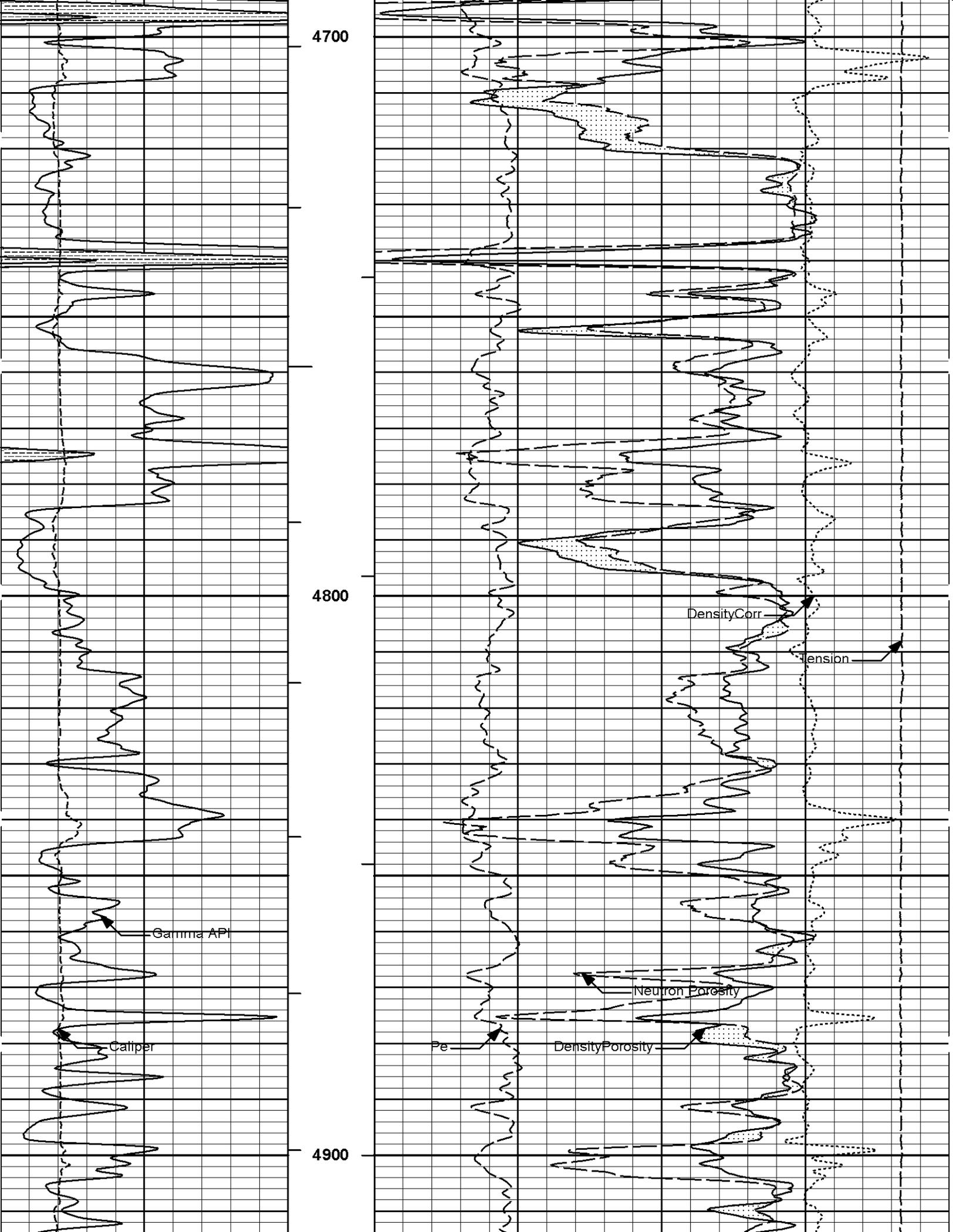
5 INCH MAIN LOG

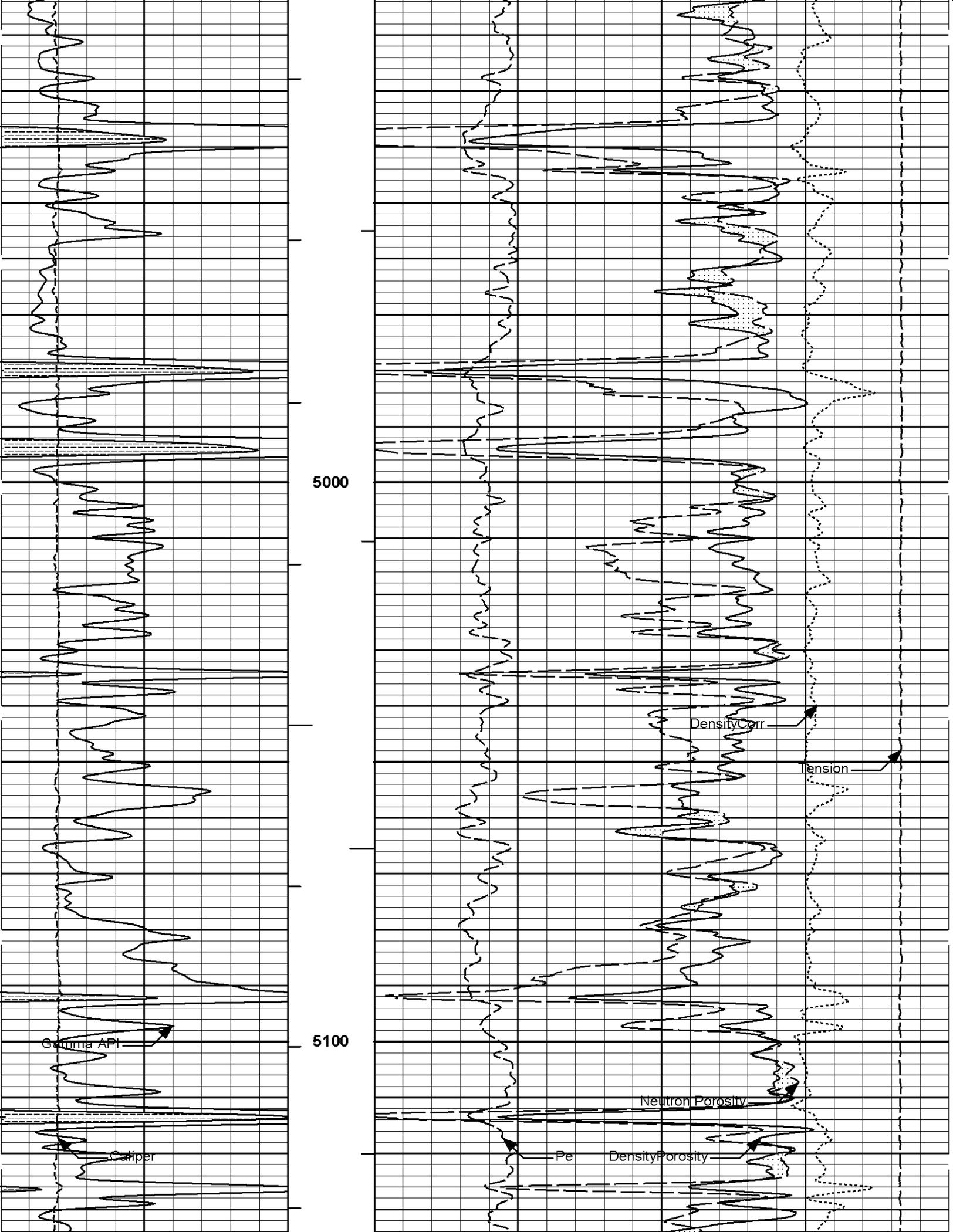


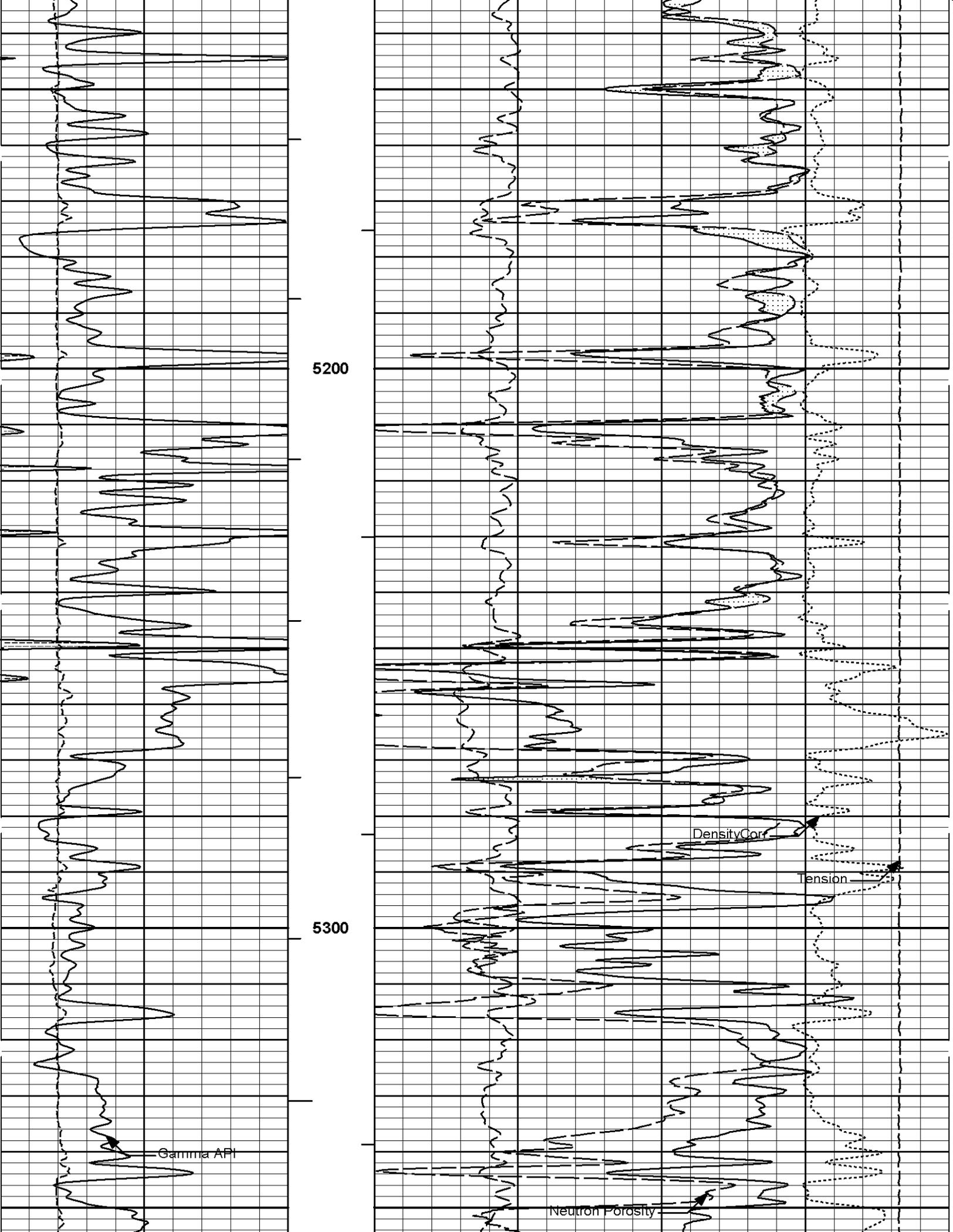


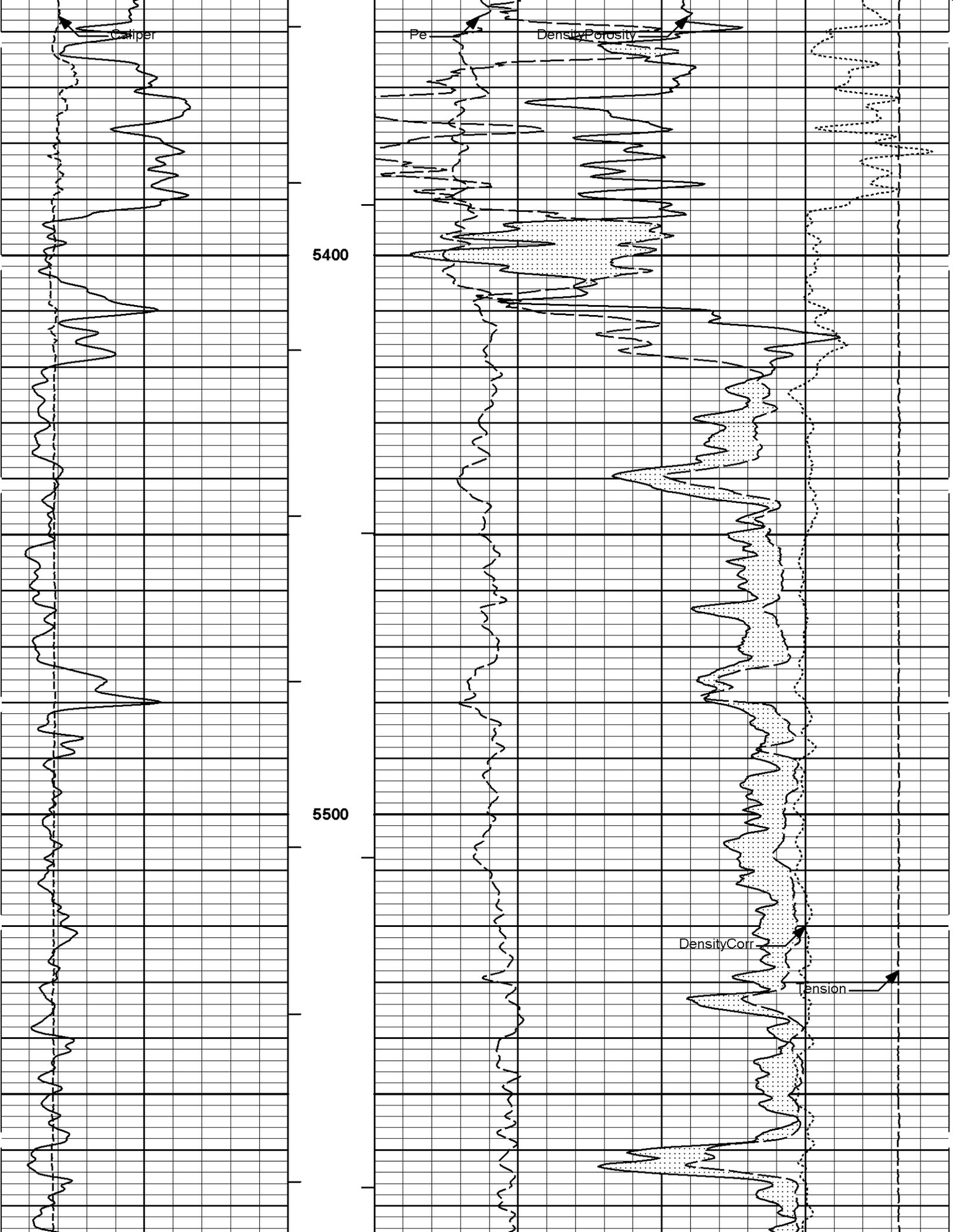


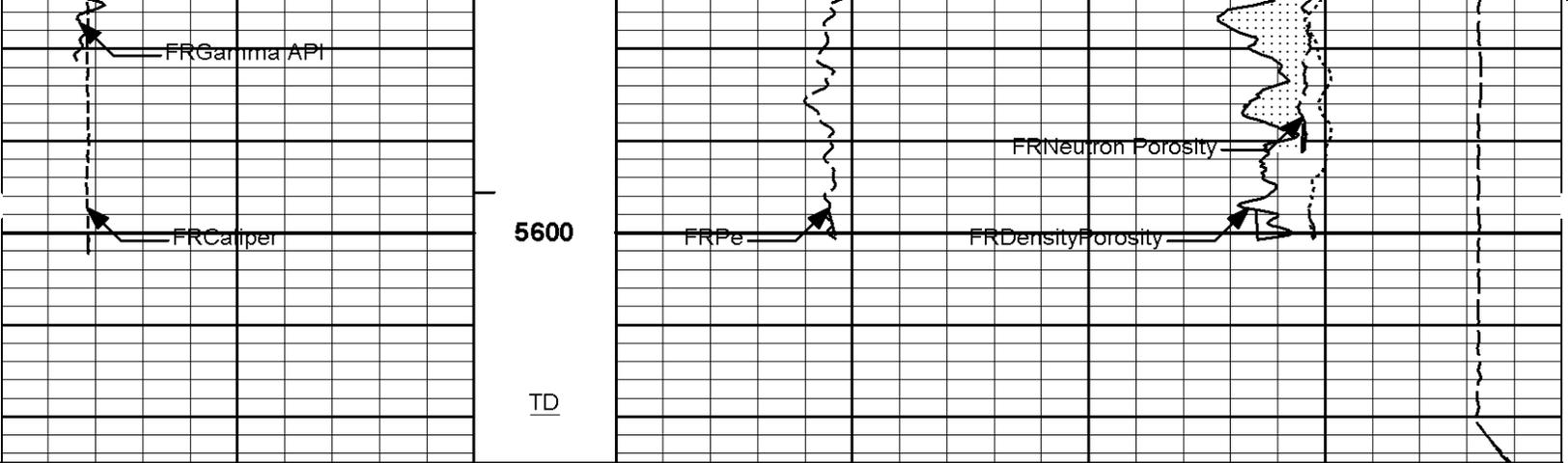












6	Caliper	16	1 : 240 ft	0	Pe	10	-0.25	DensityCorr	0.25
	inches							gram per cc	
0	Gamma API	150	AHVT				15K	Tension	0
	api							pounds	
	SHALE		BHVT	30	DensityPorosity				-10
					%				
			Tension Pull	30	Neutron Porosity				-10
			10	0	%				
			Tension Pull:		CROSSOVER				

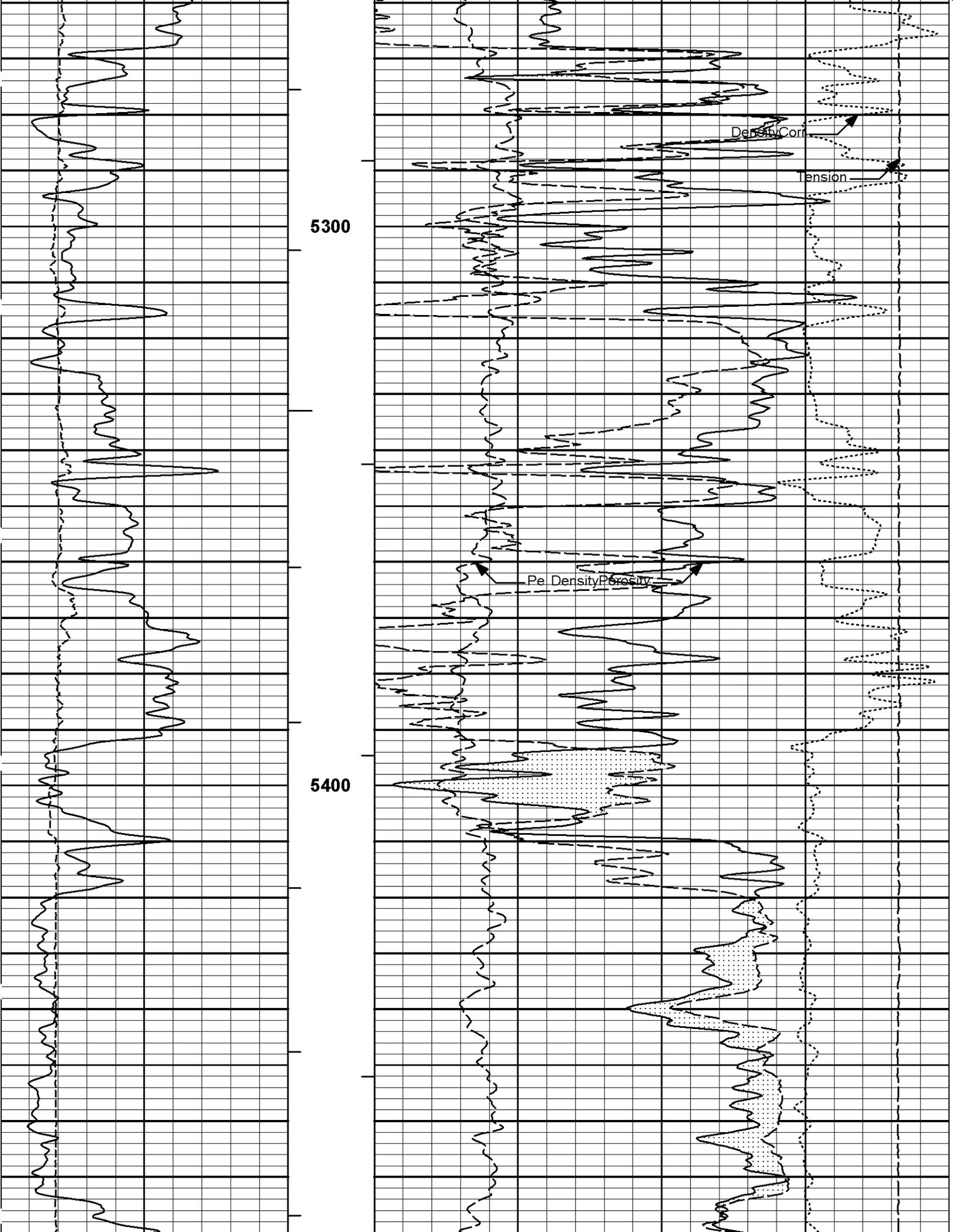
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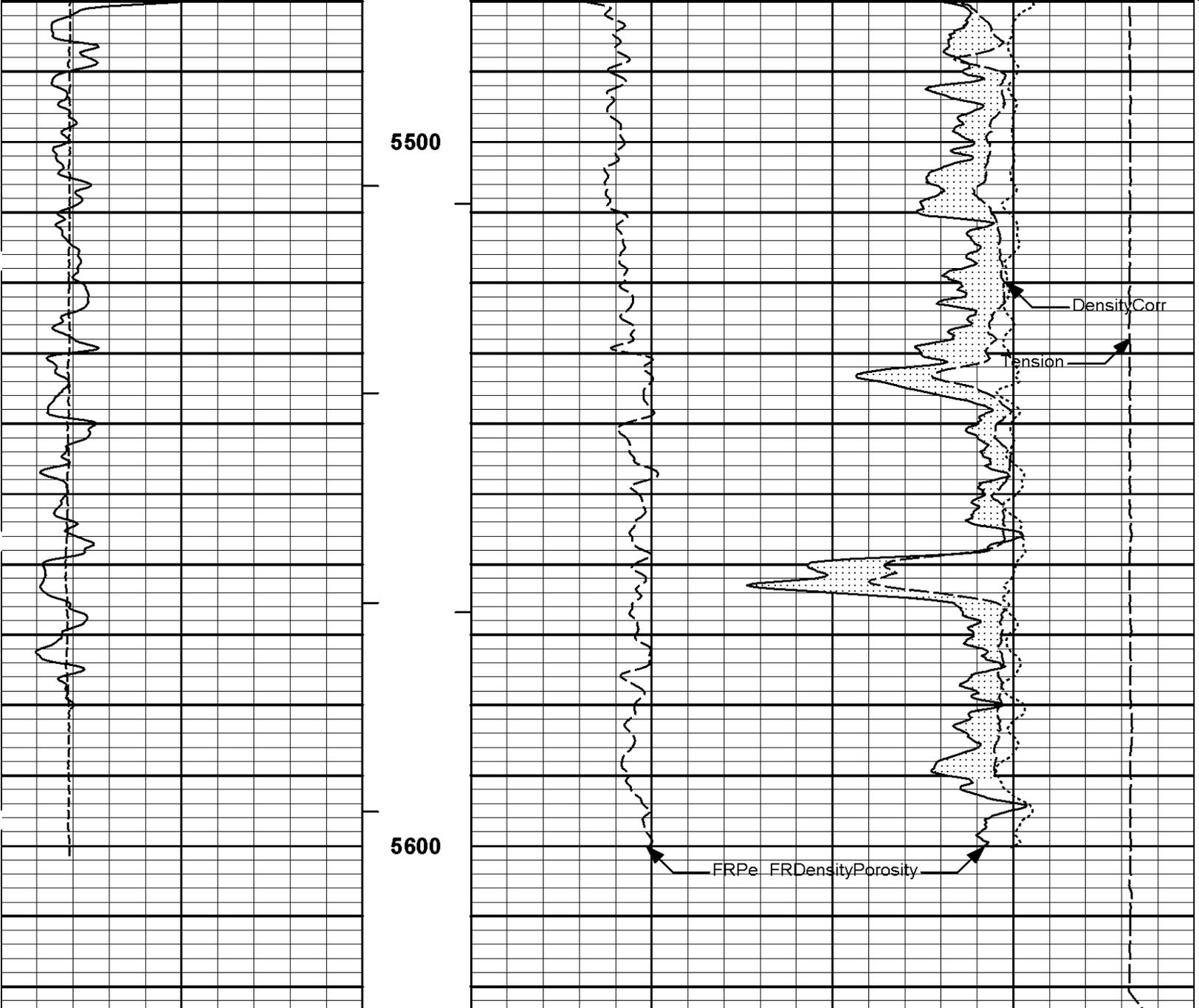
5 INCH MAIN LOG

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 Plot Range: 5250 ft to 5624.42 ft
 Data: STAPLETON_6_10\Well Based\REPEAT\
 Plot File: \\PORO\Poro_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	1 : 240	0	Pe	10	-0.25	DensityCorr	0.25
	inches		ft					gram per cc	





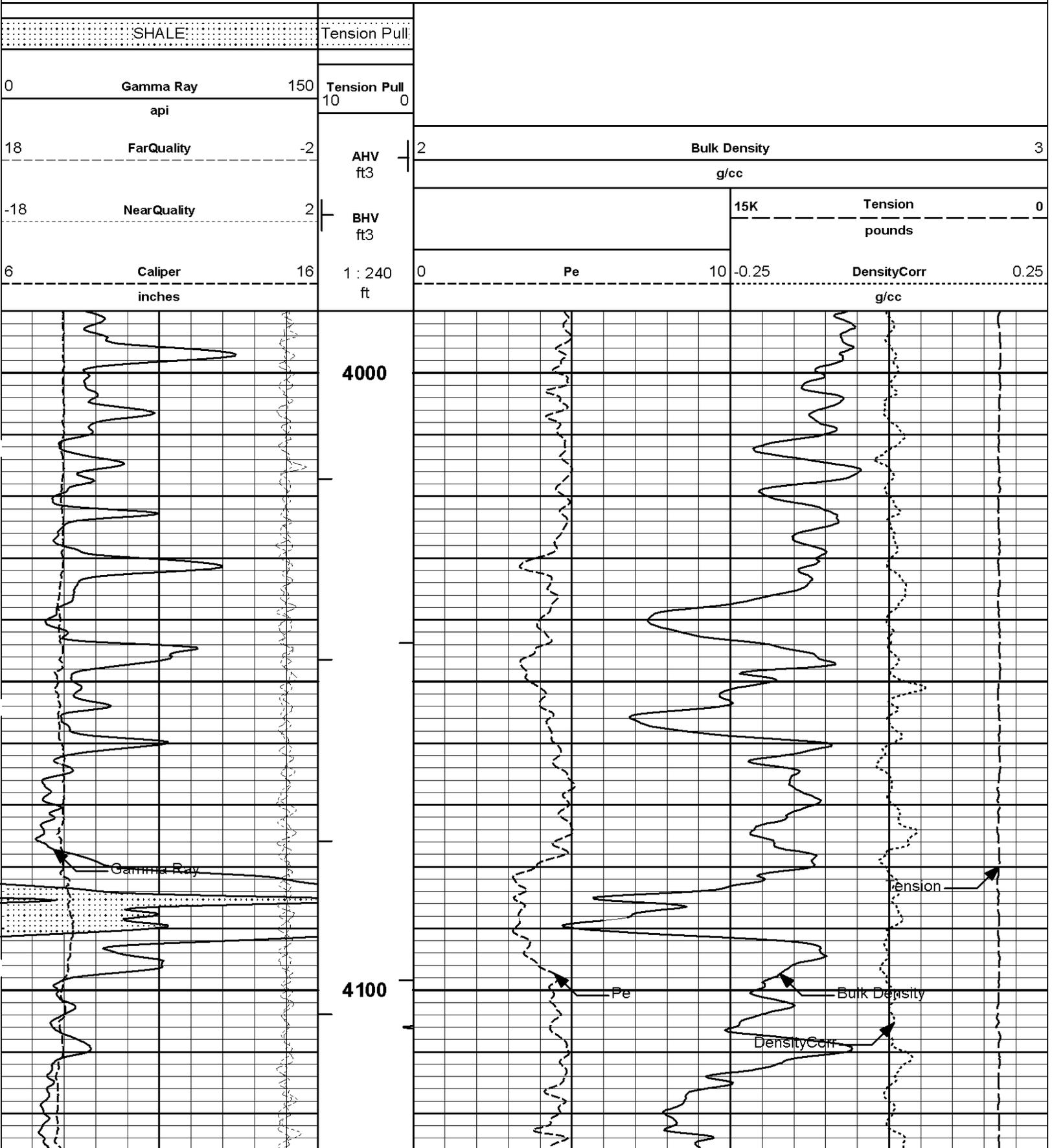
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	inches		ft					gram per cc	
0	Gamma API	150	AHVT				15K	Tension	0
	api							pounds	
	SHALE		BHVT	30	DensityPorosity				-10
					%				
				30	Neutron Porosity				-10
					%				
					CROSSOVER				

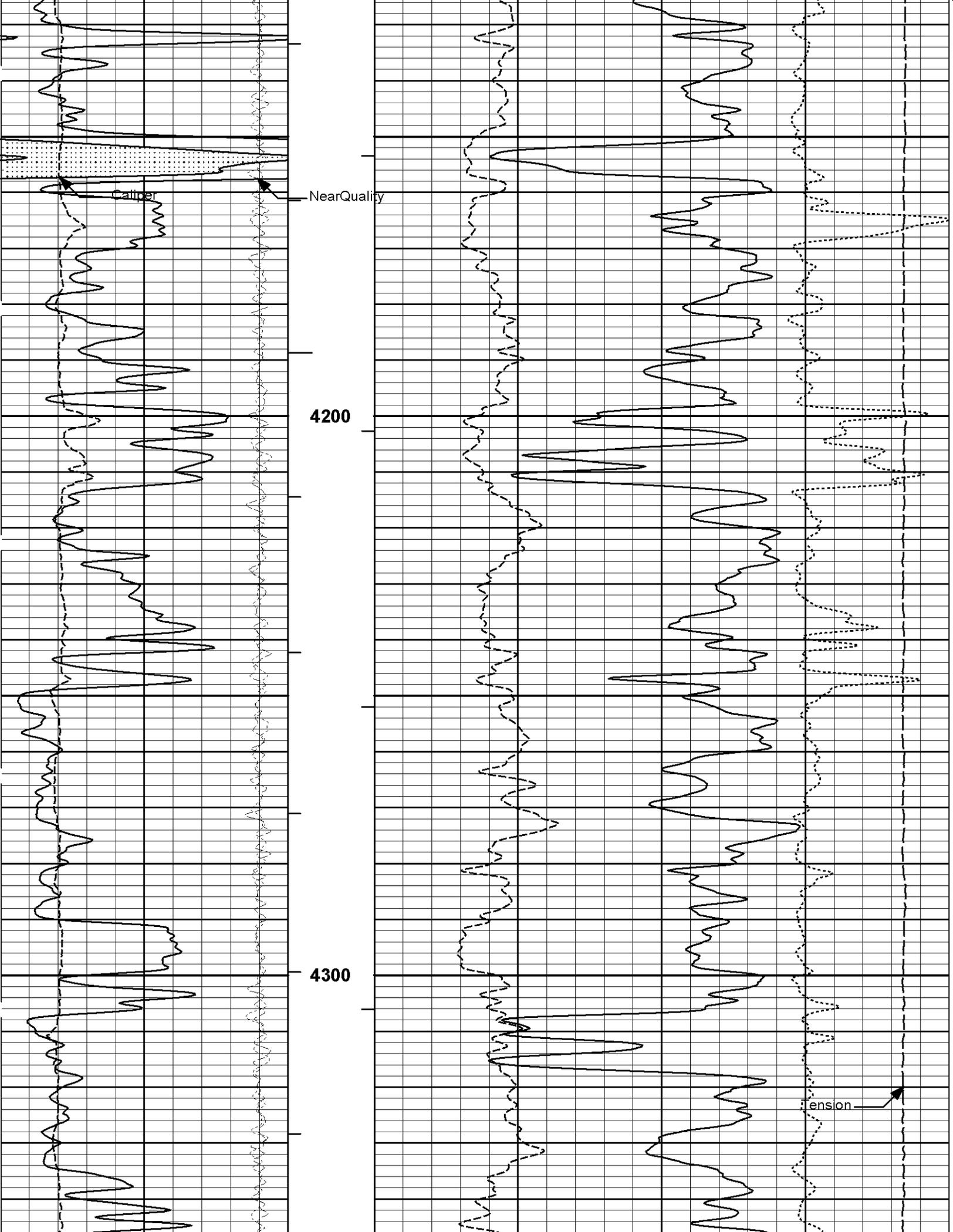
HALLIBURTON

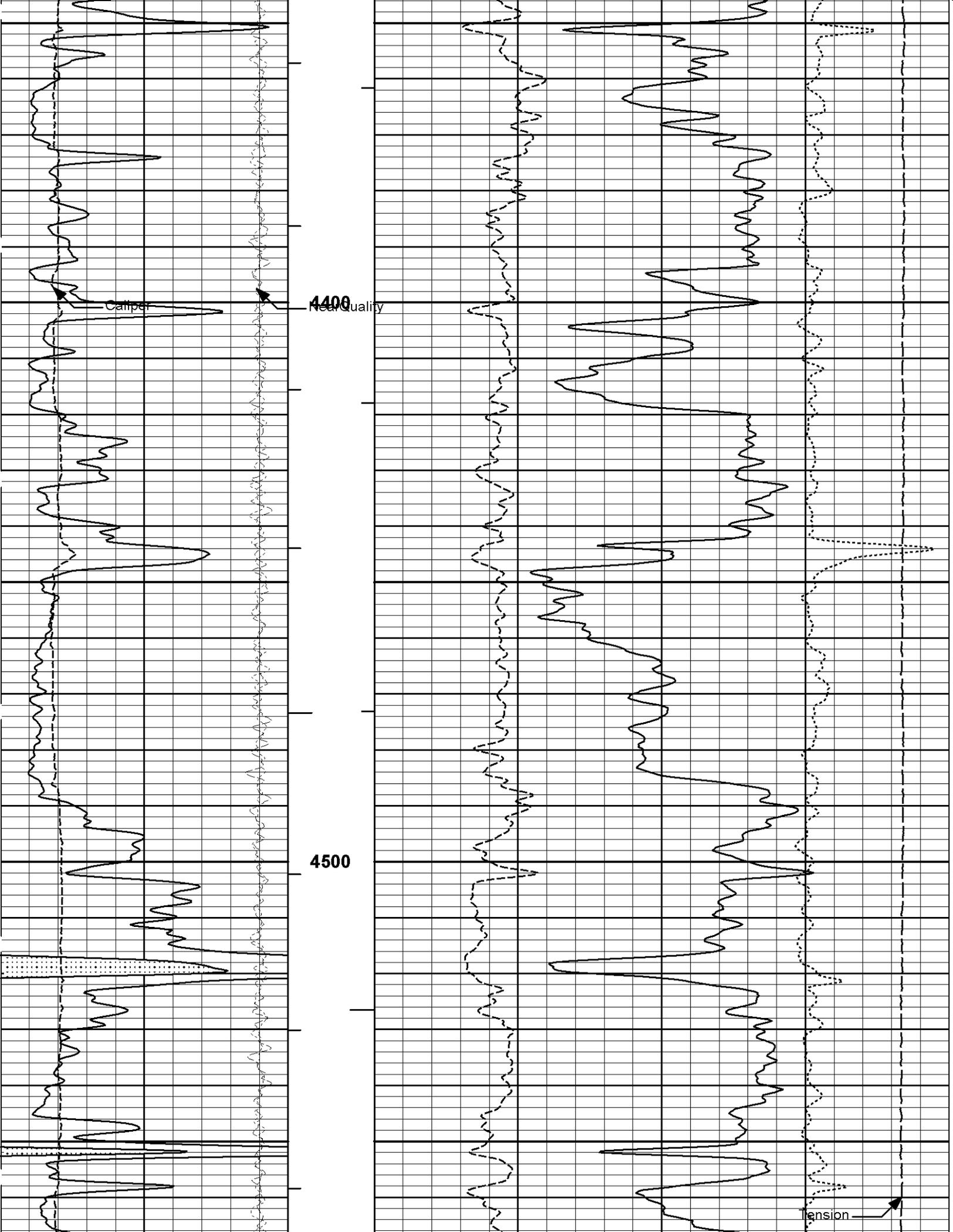
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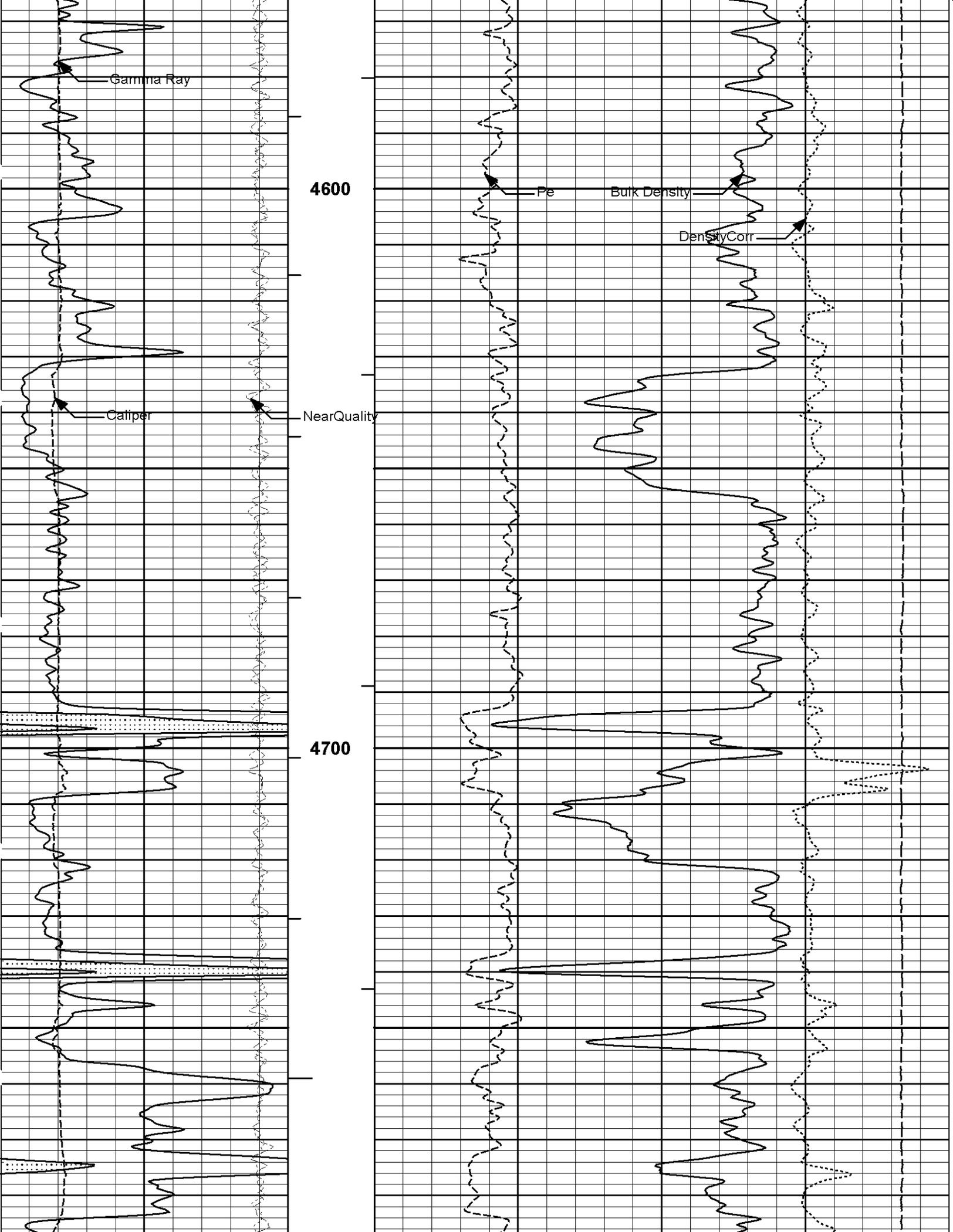
REPEAT SECTION

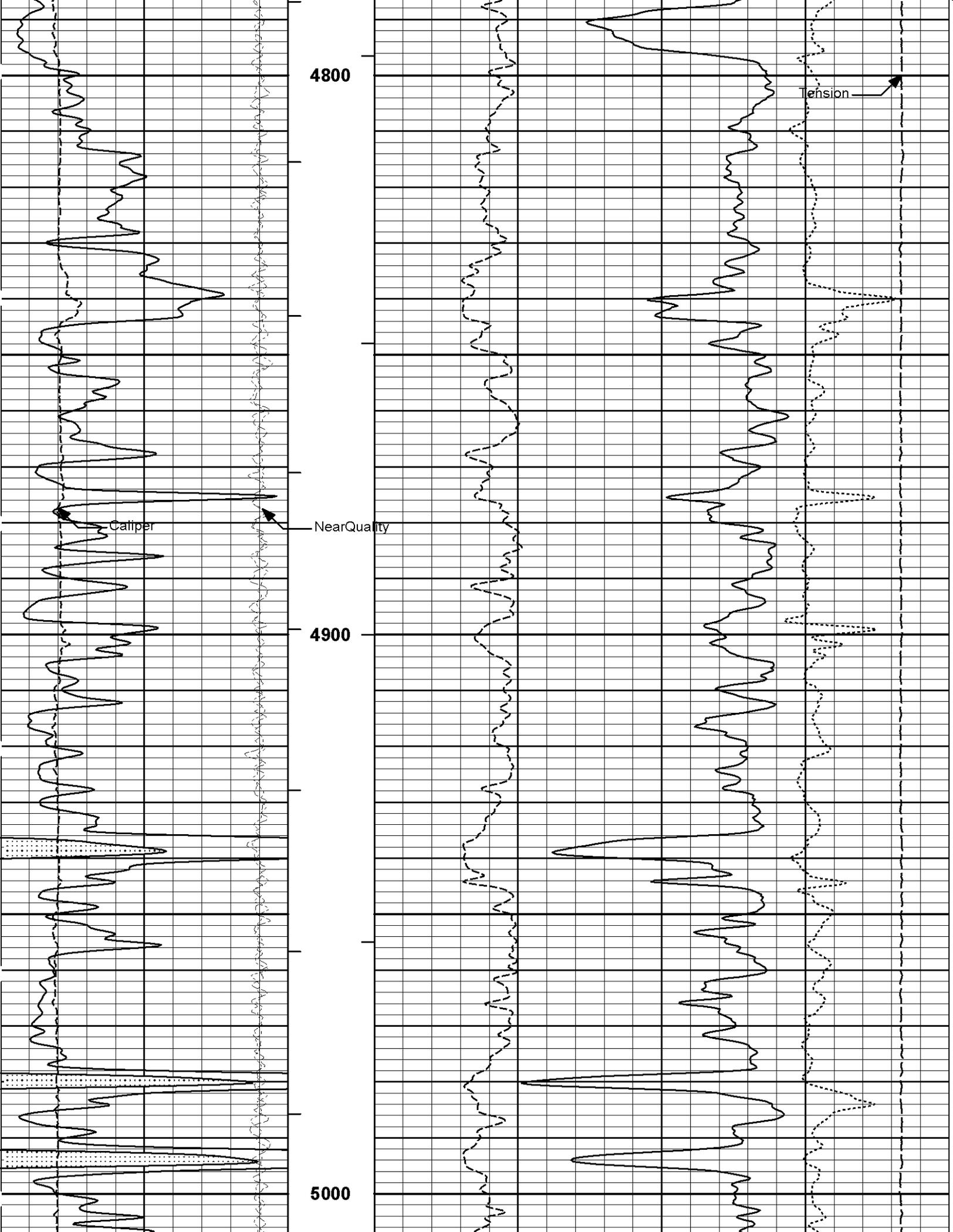
5 INCH MAIN LOG

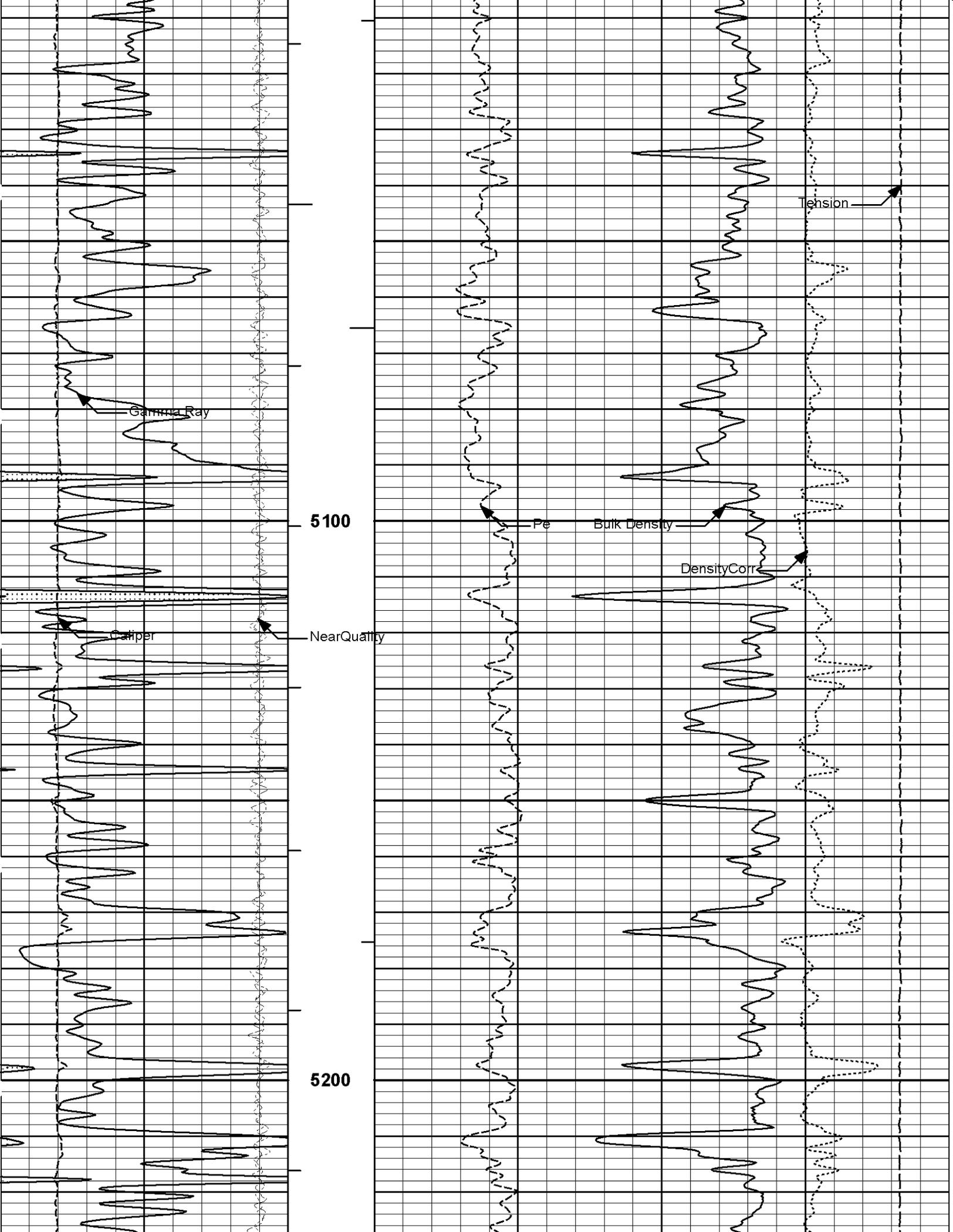


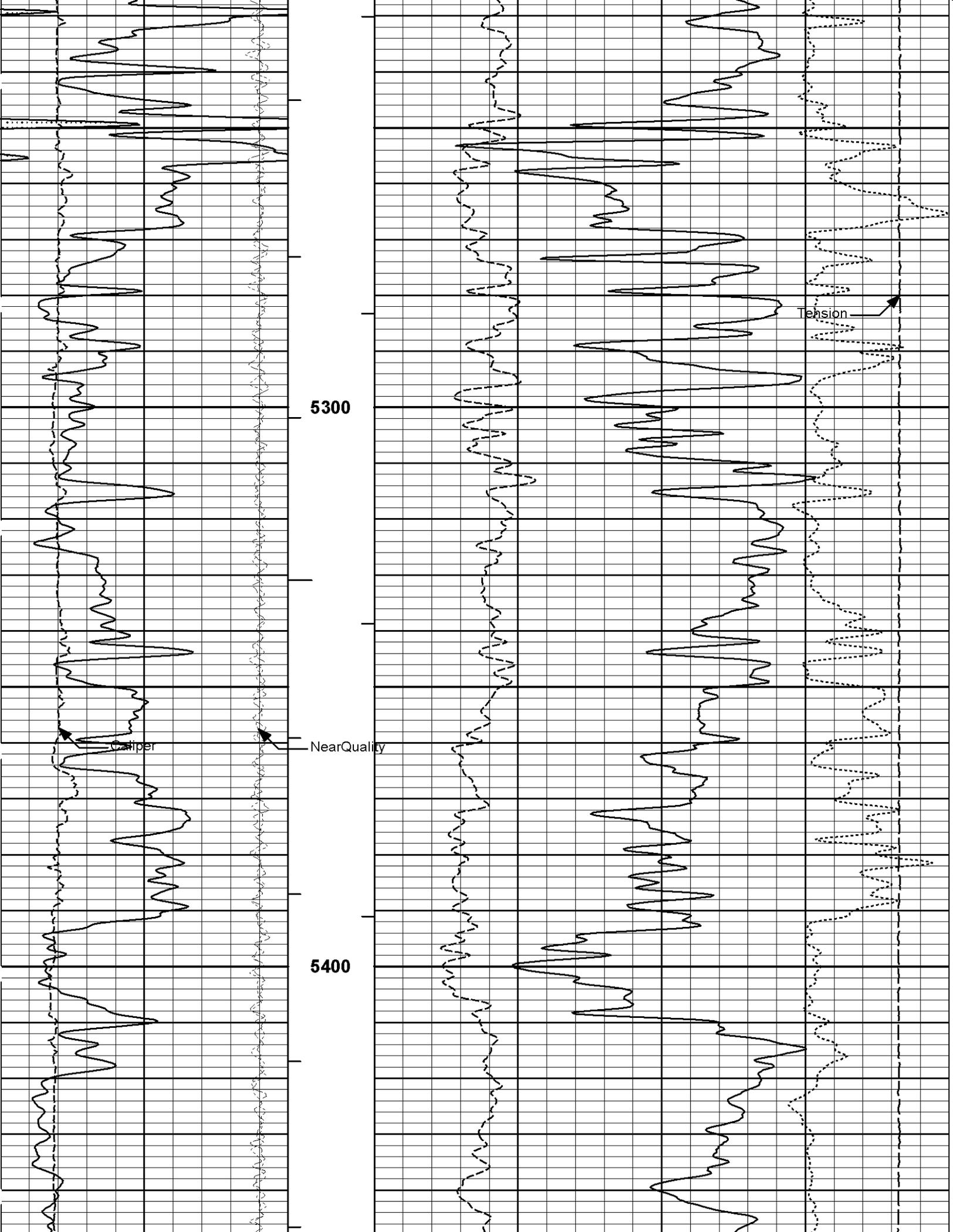


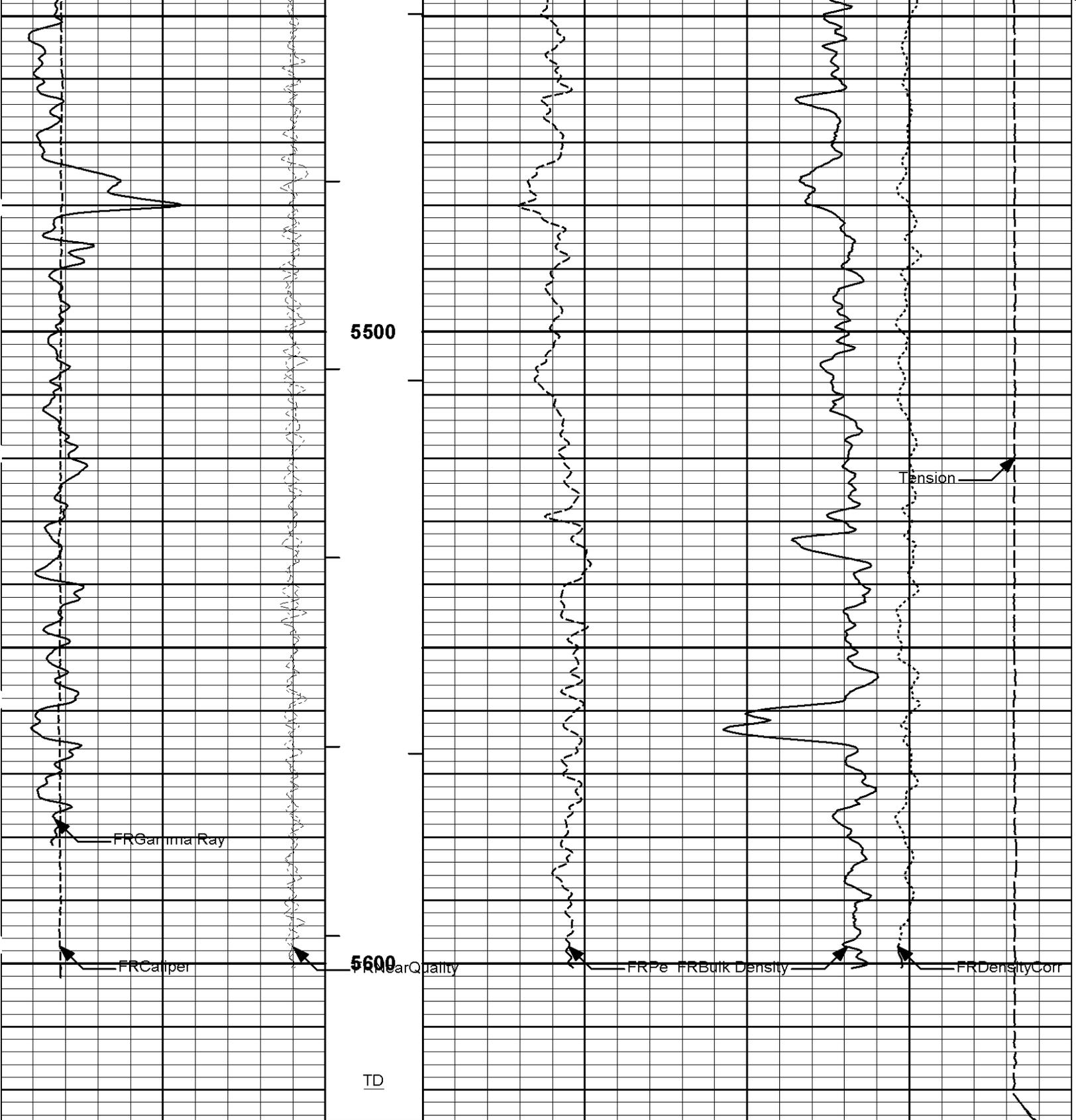












6	Caliper	16	1 : 240	0	Pe	10	-0.25	DensityCorr	0.25
	inches		ft					g/cc	
-18	NearQuality	2	BHV			15K		Tension	0
			ft3					pounds	
18	FarQuality	-2	AHV	2	Bulk Density				3
			ft3		g/cc				
0	Gamma Ray	150	Tension Pull						
	api		10	0					

SHALE

Tension Pull

HALLIBURTON

Plot Time: 23-Aug-11 21:49:55
 Plot Range: 3990 ft to 5625 ft
 Data: STAPLETON_6_10\Well Based\DETAIL\
 Plot File: \\-LOCAL-\STAPLETON_6_10\0001 TRIPLE COMBO\PORO\BULKD_5_MAIN_LIB

5 INCH MAIN LOG

HALLIBURTON

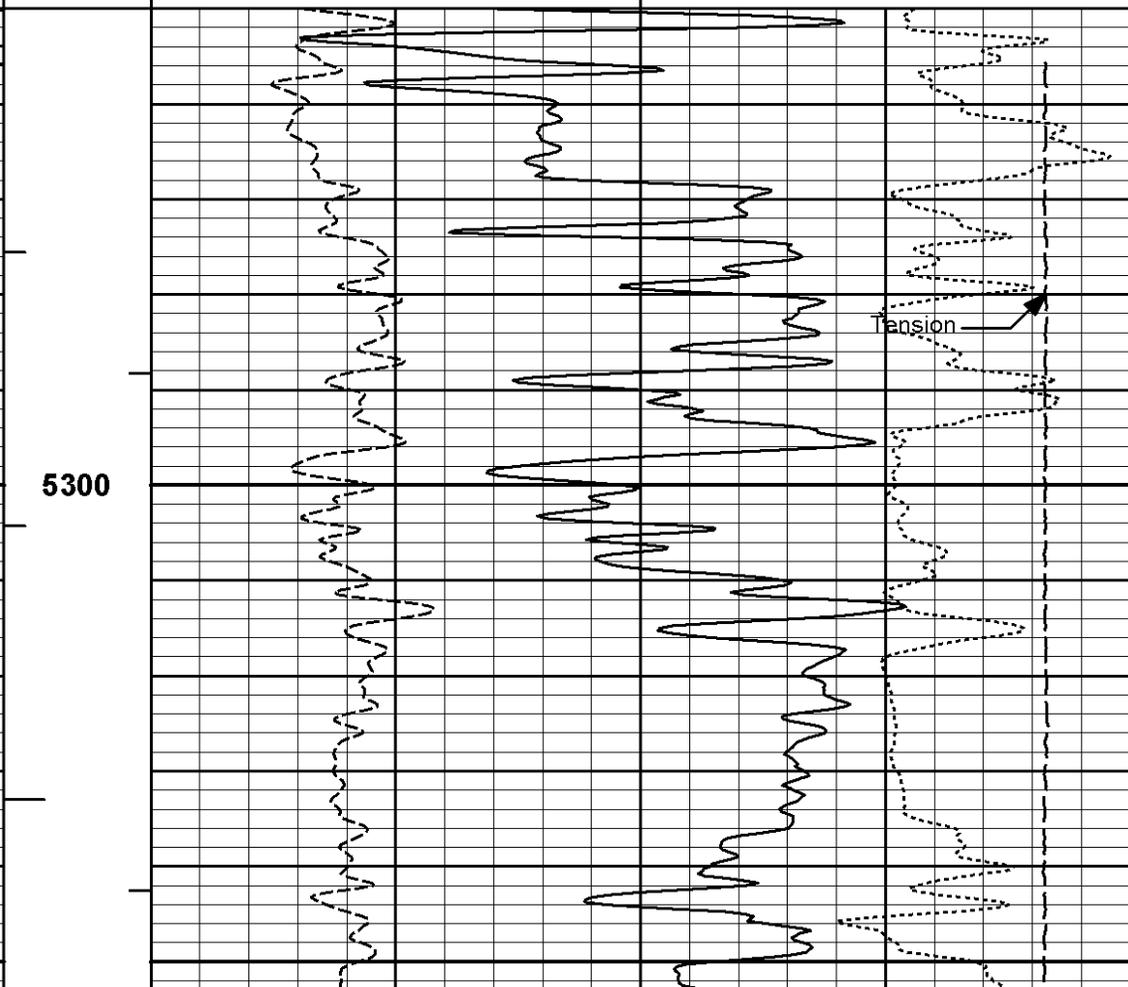
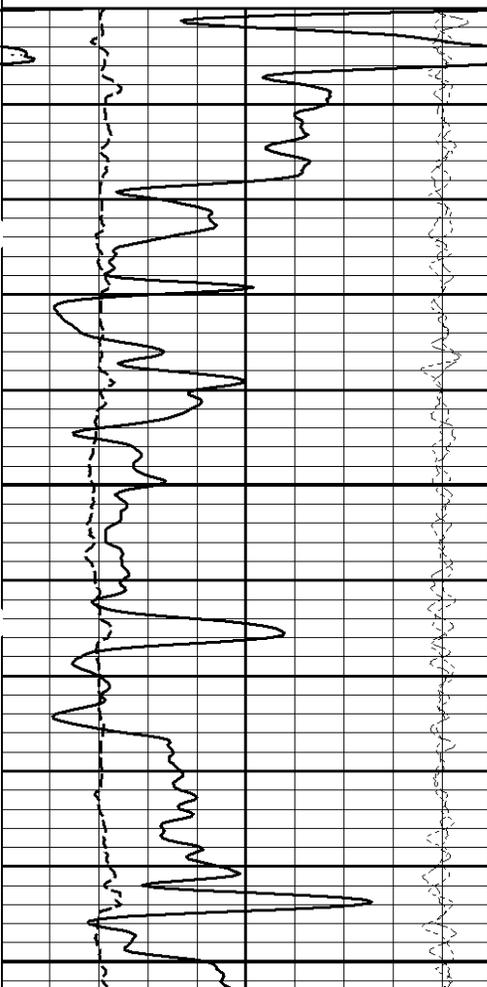
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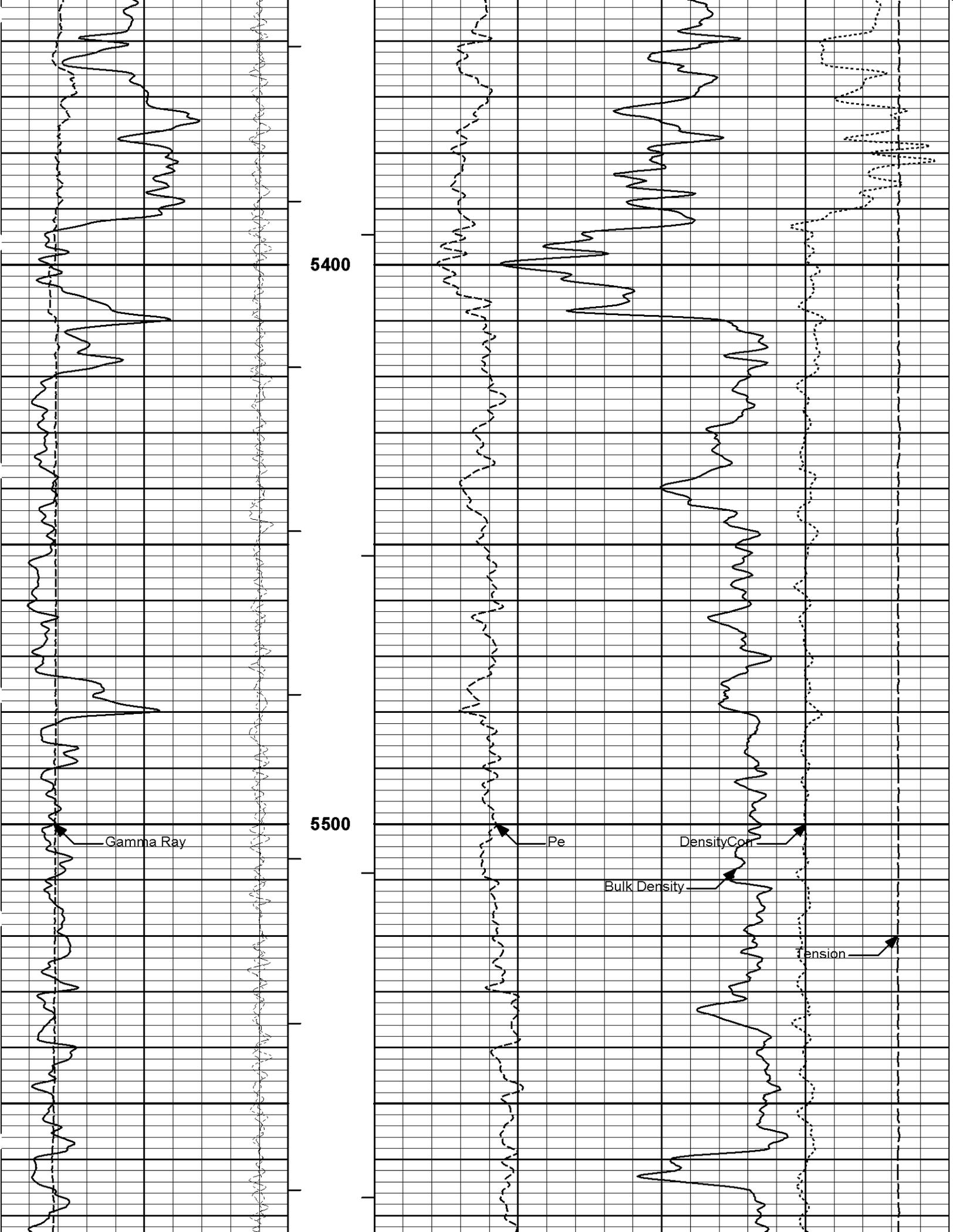
REPEAT SECTION

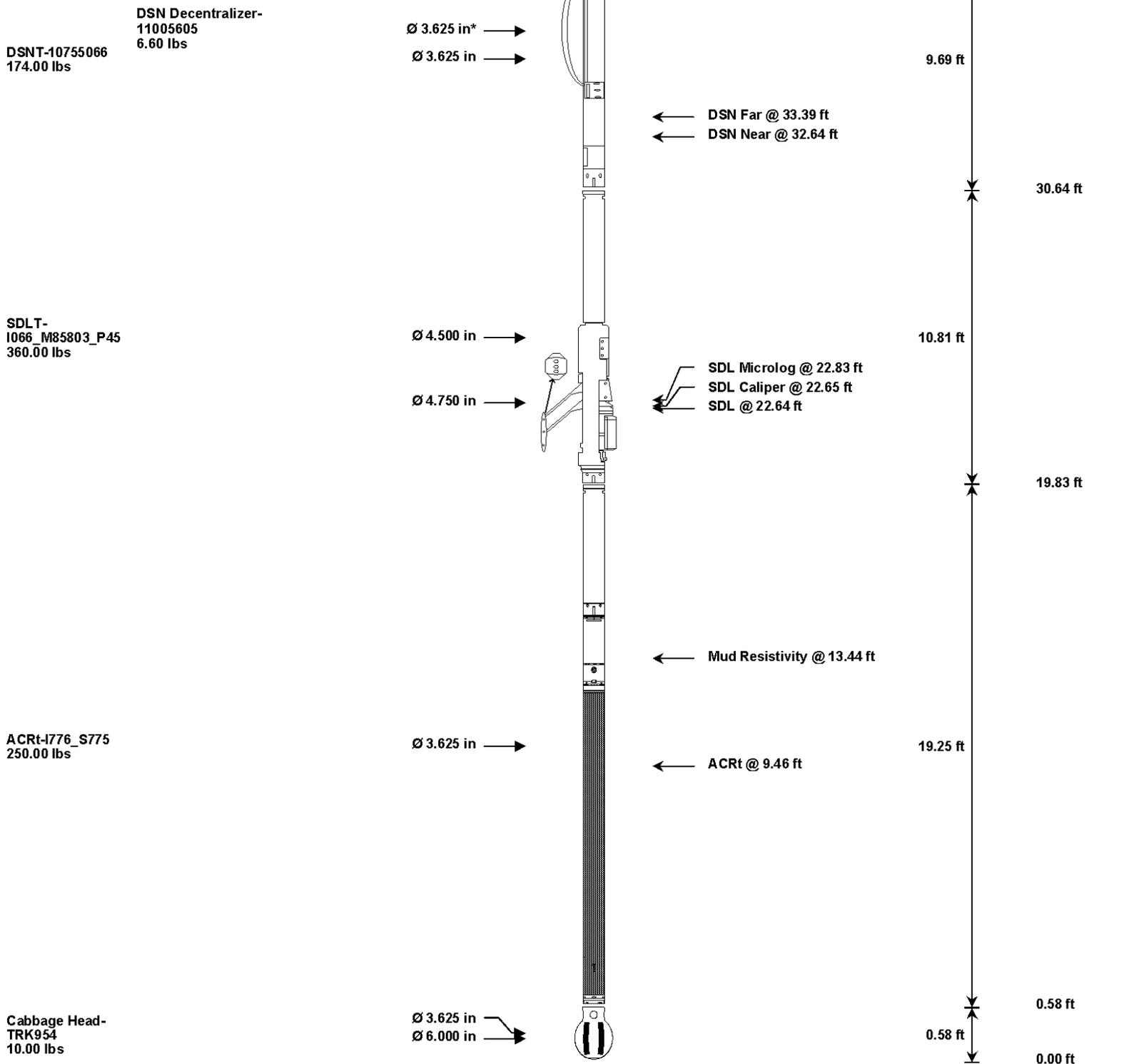
SHALE

0	Gamma Ray	150
	api	
18	FarQuality	-2
	NearQuality	2
6	Caliper	16
	inches	

AHV ft3	2	Bulk Density	3
		g/cc	
BHV ft3		15K	Tension
			pounds
1 : 240 ft	0	Pe	10
		-0.25	DensityCorr
			g/cc







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	52.59	300.00
SP	SP Sub	TRK954	60.00	3.74	48.85	300.00
GTET	Gamma Telemetry Tool	10748374	165.00	8.52	40.33	60.00
DSNT	Dual Spaced Neutron	10755066	174.00	9.69	30.64	60.00
DCNT	DSN Decentralizer	11005605	6.60	5.13	33.97	300.00
SDLT	Spectral Density Tool	1066_M85803_P45	360.00	10.81	19.83	60.00
ACRt	Array Compensated True Resistivity	1776_S775	250.00	19.25	0.58	300.00
CBHD	Cabbage Head	TRK954	10.00	0.58	0.00	300.00
Total			1,055.60	54.51		

* Not included in Total Length and Length Accumulation.

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name: GTET - 10748374 **Reference Calibration Date:** 25-Apr-11 10:04:04
Engineer: C. MARLOWE **Calibration Date:** 09-Aug-11 05:40:36
Software Version: WL INSITE R3.2.5 (Build 2) **Calibration Version:** 1

Calibrator Source S/N: TB-185
 Calibrator API Reference:228.00 api
 Equivalent Calibrator API Reference:232.0 api

Measurement	Measured	Calibrated	Units
Background	34.4	35.2	api
Background + Calibrator	261.1	267.2	api
Calibrator	232.8	232.0	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name: GTET - 10748374 **Reference Calibration Date:** 09-Aug-11 05:40:36
Engineer: C. MARLOWE **Calibration Date:** 23-Aug-11 18:47:28
Software Version: WL INSITE R3.2.5 (Build 2) **Calibration Version:** 1

Calibrator Source S/N: TB-185
 Calibrator API Reference:228.00 api
 Equivalent Calibrator API Reference:232.0 api

Field Verification	Shop	Field	Units
Background	35.2	27.1	api
Background + Calibrator	267.2	261.9	api
Calibrator	232.0	234.8	api

Shop	Field	Difference	Tolerance
232.0	234.8	-2.8	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name: DSNT - 10755066 **Reference Calibration Date:** 18-Jun-11 10:14:15
Engineer: S. JUNG **Calibration Date:** 28-Jul-11 14:45:23
Software Version: WL INSITE R3.2.5 (Build 2) **Calibration Version:** 1

Logging Source S/N: DSN-436
 Tank Serial Number: 105060
 Reference value assigned to Tank: 51.680
 Snow Block S/N: TRK_10782954
 Calibration Tank Water Temperature: 89 degF
 Min. Tool Housing Outside Diameter: 3.615 in

CALIBRATION CONSTANTS

Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.952	0.952	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):	0.2103	0.2103	0.0000	+/- 0.0020
Calibrated Ratio:	9.70	9.70	0.001	+/- 0.050

VERIFIER

Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0612	0.02000 - 0.09000

PASS/FAIL SUMMARY

Background Check:	Passed
Gain-Range Check:	Passed
Snow-Block Check:	Passed

DUAL SPACED NEUTRON FIELD CALIBRATION

Tool Name: DSNT - 10755066	Reference Calibration Date: 28-Jul-11 14:45:23
Engineer: C. MARLOWE	Calibration Date: 23-Aug-11 19:24:34
Software Version: WL INSITE R3.2.5 (Build 2)	Calibration Version: 1

Logging Source S/N: DSN-436
Snow Block S/N: TRK_10782954

NEUTRON FIELD-CHECK SUMMARY

	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0612	0.0581	-0.0031	+/- 0.0150

PASS/FAIL SUMMARY

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

SPECTRAL DENSITY SHOP CALIBRATION

Tool Name: SDLT - I066_M85803_P45	Reference Calibration Date: 15-Jun-11 13:49:07
Engineer: S. JUNG	Calibration Date: 28-Jul-11 17:09:21
Software Version: WL INSITE R3.2.5 (Build 2)	Calibration Version: 1

Logging Source S/N: 5073GW
Aluminum Block S/N: 63061
Magnesium Block S/N: 63393

Density: 2.591g/cc Pe: 3.170
Density: 1.690g/cc Pe: 2.594

DENSITY CALIBRATION SUMMARY

Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	0.9833	0.9683	0.90 - 1.10
Near Dens Gain	0.9718	0.9689	0.90 - 1.10
Near Peak Gain	0.9666	0.9709	0.90 - 1.10
Near Lith Gain	0.9589	0.9479	0.90 - 1.10
Far Bar Gain	0.9891	0.9872	0.90 - 1.10
Far Dens Gain	0.9804	0.9802	0.90 - 1.10
Far Peak Gain	0.9761	0.9761	0.90 - 1.10
Far Lith Gain	0.9511	0.9458	0.90 - 1.10
Near Bar Offset	0.3728	0.5164	NONE
Near Dens Offset	0.4435	0.4782	NONE
Near Peak Offset	0.4554	0.4313	NONE
Near Lith Offset	0.4791	0.5856	NONE
Far Bar Offset	0.2144	0.2328	NONE
Far Dens Offset	0.2716	0.2747	NONE
Far Peak Offset	0.2759	0.2737	NONE
Far Lith Offset	0.4034	0.4411	NONE

Near Bar Background	1017.14	1015.67	700 - 1450
Near Dens Background	336.72	338.63	230 - 480
Near Peak Background	147.16	147.35	100 - 210
Near Lith Background	180.00	177.87	125 - 260
Far Bar Background	524.89	518.02	450 - 900
Far Dens Background	201.71	200.61	175 - 345
Far Peak Background	79.21	77.97	70 - 140
Far Lith Background	83.74	83.63	75 - 145

CALIBRATION BLOCK SUMMARY

Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.681	1.690	0.009	+/- 0.015
Pe	2.622	2.563	-0.059	+/- 0.150
ALUMINUM				
Density (g/cc)	2.580	2.590	0.011	+/- 0.01500
Pe	3.179	3.138	-0.041	+/- 0.150

TOOL SUMMARY

Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	-0.0012	+/- 0.0110	-0.0004	+/- 0.0140
Magnesium Block	-0.0008	+/- 0.0110	-0.0022	+/- 0.0140
Aluminum Block	-0.0004	+/- 0.0110	0.0005	+/- 0.0140
Resolution	9.73	6.00 - 11.50	9.17	6.00 - 11.50
Internal Verifier(B+D+P+L)	1680	1200 - 2700	880	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 - I066_M85803_P45	Reference Calibration Date: 28-Jul-11 17:09:21
Engineer: C. MARLOWE	Calibration Date: 23-Aug-11 19:14:00
Software Version: WL INSITE R3.2.5 (Build 2)	Calibration Version: 1

Pad Temperature: 106.4 degF

DENSITY FIELD CALIBRATION SUMMARY

Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1679.525	1684.801	5.276	16.455
Far (B+D+P+L) cps	880.233	889.133	8.900	16.189
Near Resolution	9.73	9.89	0.160	0.50
Far Resolution	9.17	9.44	0.270	1.00

PASS/FAIL SUMMARY

Bkg Quality Check: Passed
Bkg Resolution Check: Passed
Bkg Verification Check: Passed

DENSITY CALIPER SHOP CALIBRATION

Tool Name: SDLT - I066_M85803_P45 Reference Calibration Date: 12-Jul-11 04:19:15
Engineer: S. JUNG Calibration Date: 28-Jul-11 18:03:47
Software Version: WL INSITE R3.2.5 (Build 2) Calibration Version: 1

CALIBRATION COEFFICIENTS

Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-5270.37	-4918.14	-7000.00 - -1000.00
Pad Gain	0.0003721	0.0003691	0.000200 - 0.000600
Arm Offset	-579.04	-1490.50	-5000.00 - 3000.00
Arm Gain	0.0004414	0.0005216	0.000300 - 0.000700
Arm Power	-0.000000209	-0.000005938	-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)	1.89	2.00	0.11	+/- 0.20
Medium Ring (in)	3.65	3.75	0.10	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.51	6.50	-0.01	+/- 0.20
Medium Ring (in)	8.09	8.25	0.16	+/- 0.20
Large Ring (in)	15.00	15.00	0.00	+/- 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 - I066_M85803_P45 Reference Calibration Date: 28-Jul-11 18:03:47
Engineer: C. MARLOWE Calibration Date: 23-Aug-11 19:31:54
Software Version: WL INSITE R3.2.5 (Build 2) Calibration Version: 1

MEASURED CALIPER VALUES

Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.65	-0.10	+/- 0.10
Ring Diameter	8.25	8.39	0.14	+/- 0.15

PASS/FAIL SUMMARY

Pad Extension Check: Passed
Diameter Check: Passed

CALIBRATION SUMMARY

Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-10748374						
Gamma Ray Calibrator	232.0	234.8	-----	-2.8	+/- 9.00	api
DSNT-10755066						
Snow-Block Porosity	0.0612	0.0581	-----	0.0031	+/- 0.0150	decp
SDLT-I066_M85803_P45						
Near(B+D+P+L)	1679.525	1684.801	-----	-5.276	+/-16.455	cps
Far(B+D+P+L)	880.233	889.133	-----	-8.900	+/-16.189	cps
Pad Extension	3.75	3.65	-----	0.10	+/-0.10	in
Ring Diameter	8.25	8.39	-----	-0.140	+/-0.15	in

Data: STAPLETON_6_10\0001 TRIPLE COMBOIDLE Date: 23-Aug-11 19:38:58

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	0.740	ohmm
	SHARED	TRM	Temperature of Mud	110.0	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	5620.00	ft
	SHARED	BHT	Bottom Hole Temperature	130.0	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	0.60	ohmm
	Rwa / CrossPlot	TMFR	Rmf Ref Temp	100.00	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	Eccentered	
	DSNT	DNOK	Process DSNT?	Yes	

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	DNOK	Process Density?	Yes	
SDLT	DNOK	Process Density EVR?	No	
SDLT	CB	Logging Calibration Blocks?	No	
SDLT	SPVT	SDLT Pad Temperature Valid?	Yes	
SDLT	DTWN	Disable temperature warning	No	
SDLT	DMA	Formation Density Matrix	2.710	g/cc
SDLT	DFL	Formation Density Fluid	1.000	g/cc
SDLT	CLOK	Process Caliper Outputs?	Yes	
SDLT	MLOK	Process MicroLog Outputs?	Yes	
ACRt	RTOK	Process ACRt?	Yes	
ACRt	MNSO	Minimum Tool Standoff	1.50	in
ACRt	TCS1	Temperature Correction Source	FP Lwr & FP Up	
ACRt	TPOS	Tool Position	Free Hanging	
ACRt	RMOP	Rmud Source	Mud Cell	
ACRt	RMIN	Minimum Resistivity for MAP	0.20	ohmm
ACRt	RMIN	Maximum Resistivity for MAP	200.00	ohmm
ACRt	THQY	Threshold Quality	0.50	

BOTTOM

Data: STAPLETON_6_10\0001 TRIPLE COMBOIDLE

Date: 23-Aug-11 21:04:33

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	50.81	NO	
SP	Spontaneous Potential	50.81	BLK	1.250
SPR	Raw Spontaneous Potential	50.81	NO	
SPO	Spontaneous Potential Offset	50.81	NO	
GTET				
TPUL	Tension Pull	42.79	NO	
GR	Natural Gamma Ray API	42.79	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	42.79	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	42.79	W	1.416 , 0.750
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	
DSNT				
TPUL	Tension Pull	32.54	NO	
RNDS	Near Detector Telemetry Counts	32.64	BLK	1.417

RFDS	Far Detector Telemetry Counts	33.39	TRI	0.583
DNTT	DSN Tool Temperature	32.64	NO	
DSNS	DSN Tool Status	32.54	NO	
ERND	Near Detector Telemetry Counts EVR	32.64	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	33.39	BLK	0.000
ENTM	DSN Tool Temperature EVR	32.64	NO	
SDLT				
TPUL	Tension Pull	22.64	NO	
NAB	Near Above	22.46	BLK	0.920
NHI	Near Cesium High	22.46	BLK	0.920
NLO	Near Cesium Low	22.46	BLK	0.920
NVA	Near Valley	22.46	BLK	0.920
NBA	Near Barite	22.46	BLK	0.920
NDE	Near Density	22.46	BLK	0.920
NPK	Near Peak	22.46	BLK	0.920
NLI	Near Lithology	22.46	BLK	0.920
NBAU	Near Barite Unfiltered	22.46	BLK	0.250
NLIU	Near Lithology Unfiltered	22.46	BLK	0.250
FAB	Far Above	22.81	BLK	0.250
FHI	Far Cesium High	22.81	BLK	0.250
FLO	Far Cesium Low	22.81	BLK	0.250
FVA	Far Valley	22.81	BLK	0.250
FBA	Far Barite	22.81	BLK	0.250
FDE	Far Density	22.81	BLK	0.250
FPK	Far Peak	22.81	BLK	0.250
FLI	Far Lithology	22.81	BLK	0.250
PTMP	Pad Temperature	22.65	BLK	0.920
NHV	Near Detector High Voltage	19.83	NO	
FHV	Far Detector High Voltage	19.83	NO	
ITMP	Instrument Temperature	19.83	NO	
DDHV	Detector High Voltage	19.83	NO	
TPUL	Tension Pull	22.65	NO	
PCAL	Pad Caliper	22.65	TRI	0.250
ACAL	Arm Caliper	22.65	TRI	0.250
TPUL	Tension Pull	22.83	NO	
MINV	Microlog Lateral	22.83	BLK	0.750
MNOR	Microlog Normal	22.83	BLK	0.750
ACRt				
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

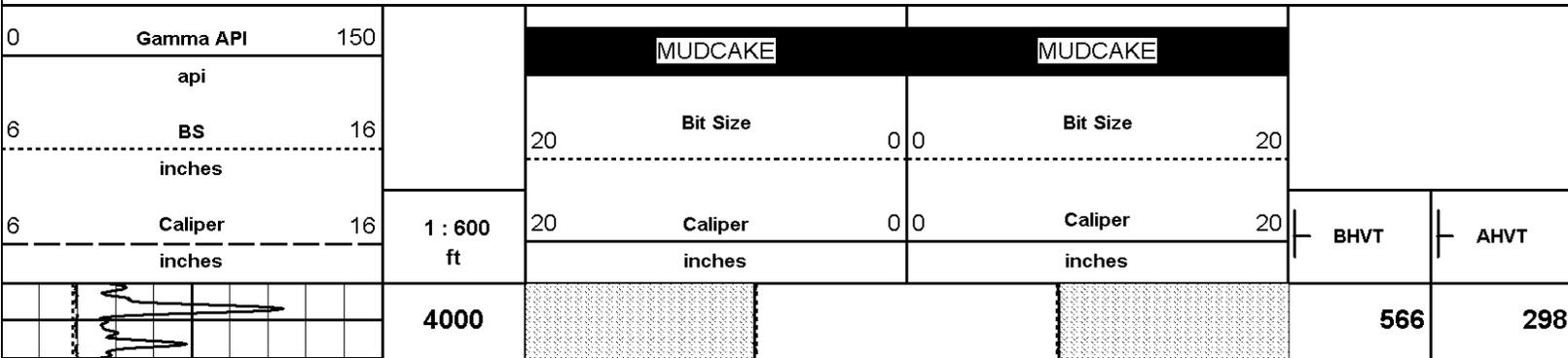
F2X2	ACRT 36KHz - 50in X value	6.72	BLK	0.000
F2R3	ACRT 36KHz - 29in R value	5.22	BLK	0.000
F2X3	ACRT 36KHz - 29in X value	5.22	BLK	0.000
F2R4	ACRT 36KHz - 17in R value	4.22	BLK	0.000
F2X4	ACRT 36KHz - 17in X value	4.22	BLK	0.000
F2R5	ACRT 36KHz - 10in R value	3.72	BLK	0.000
F2X5	ACRT 36KHz - 10in X 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	

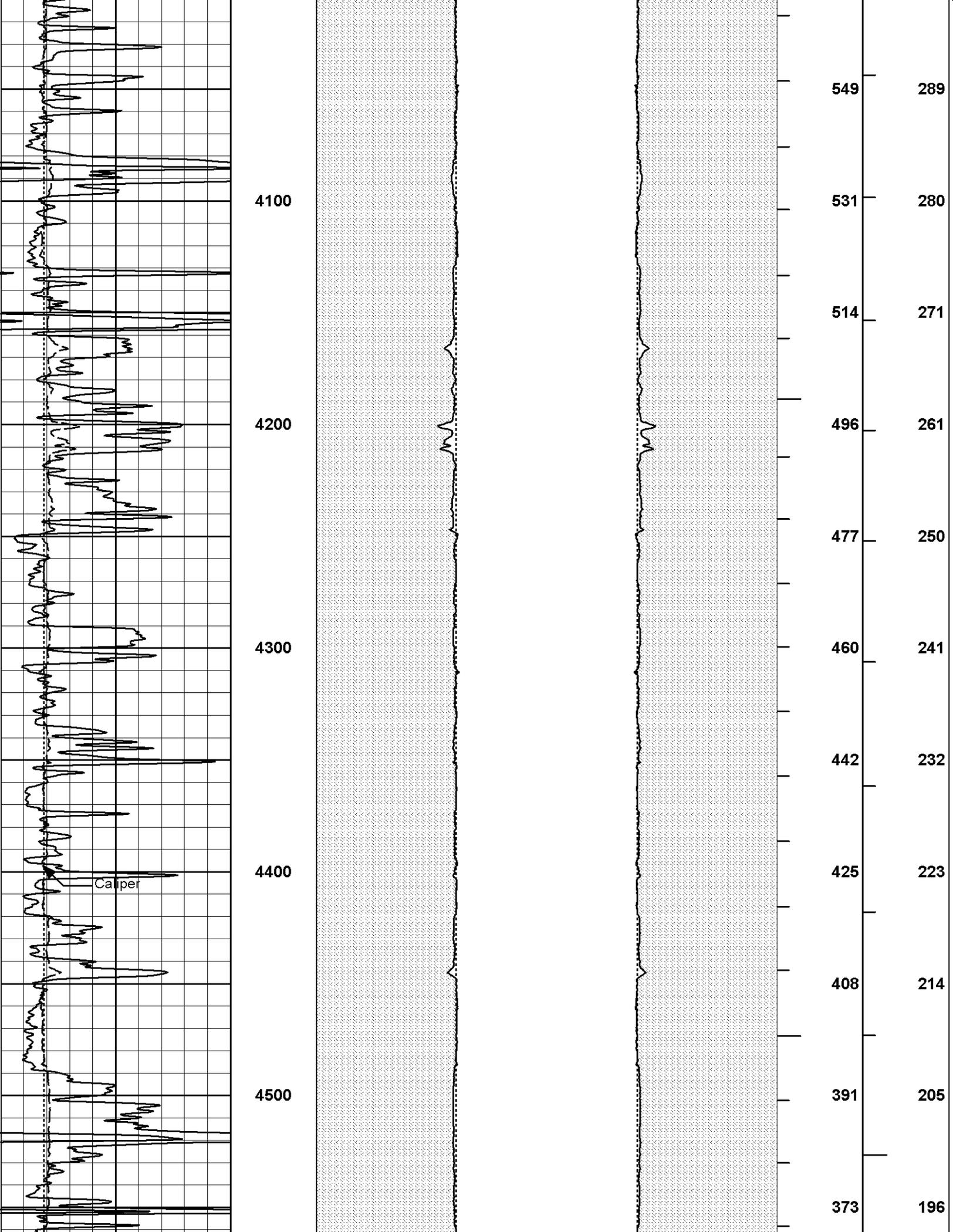
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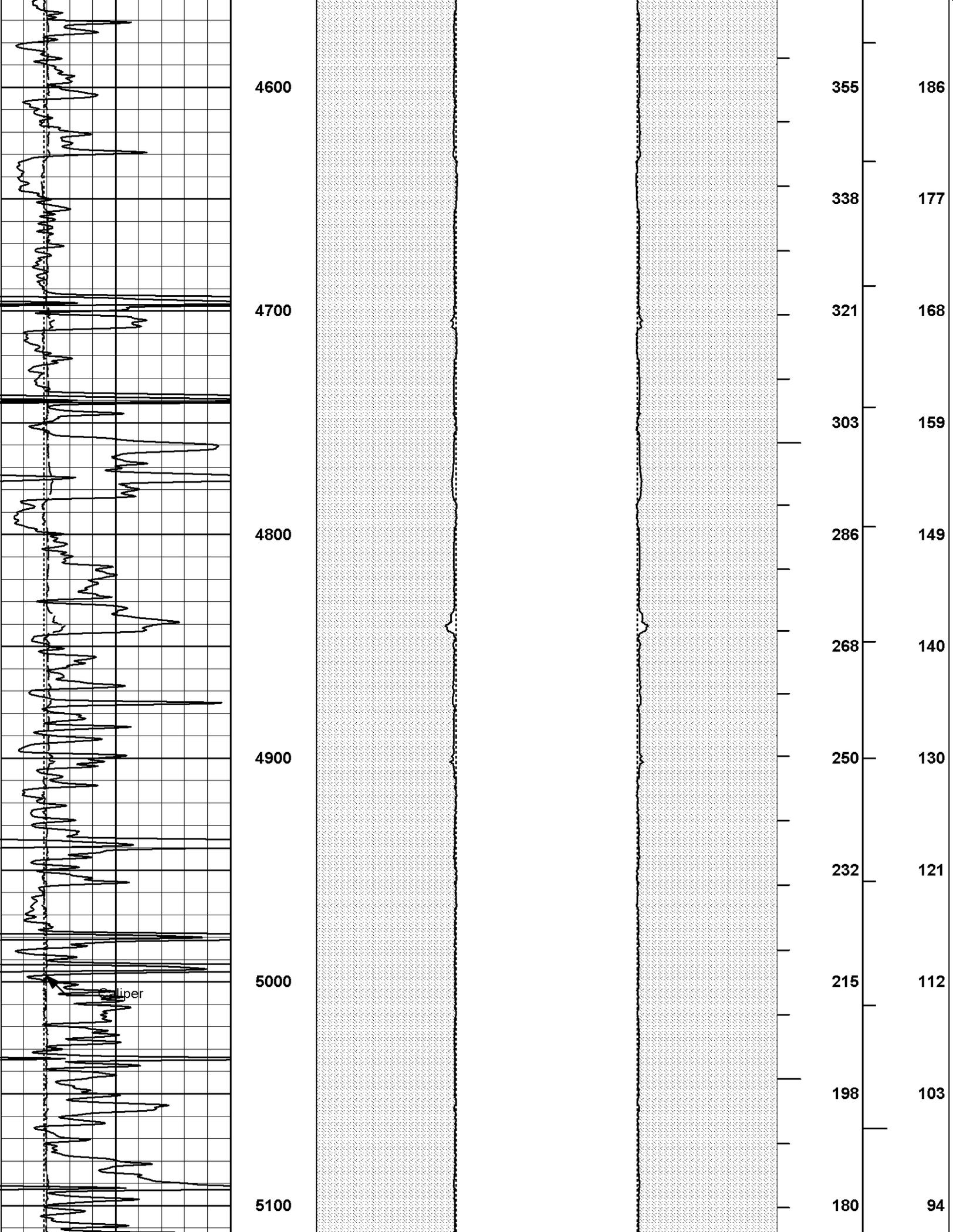
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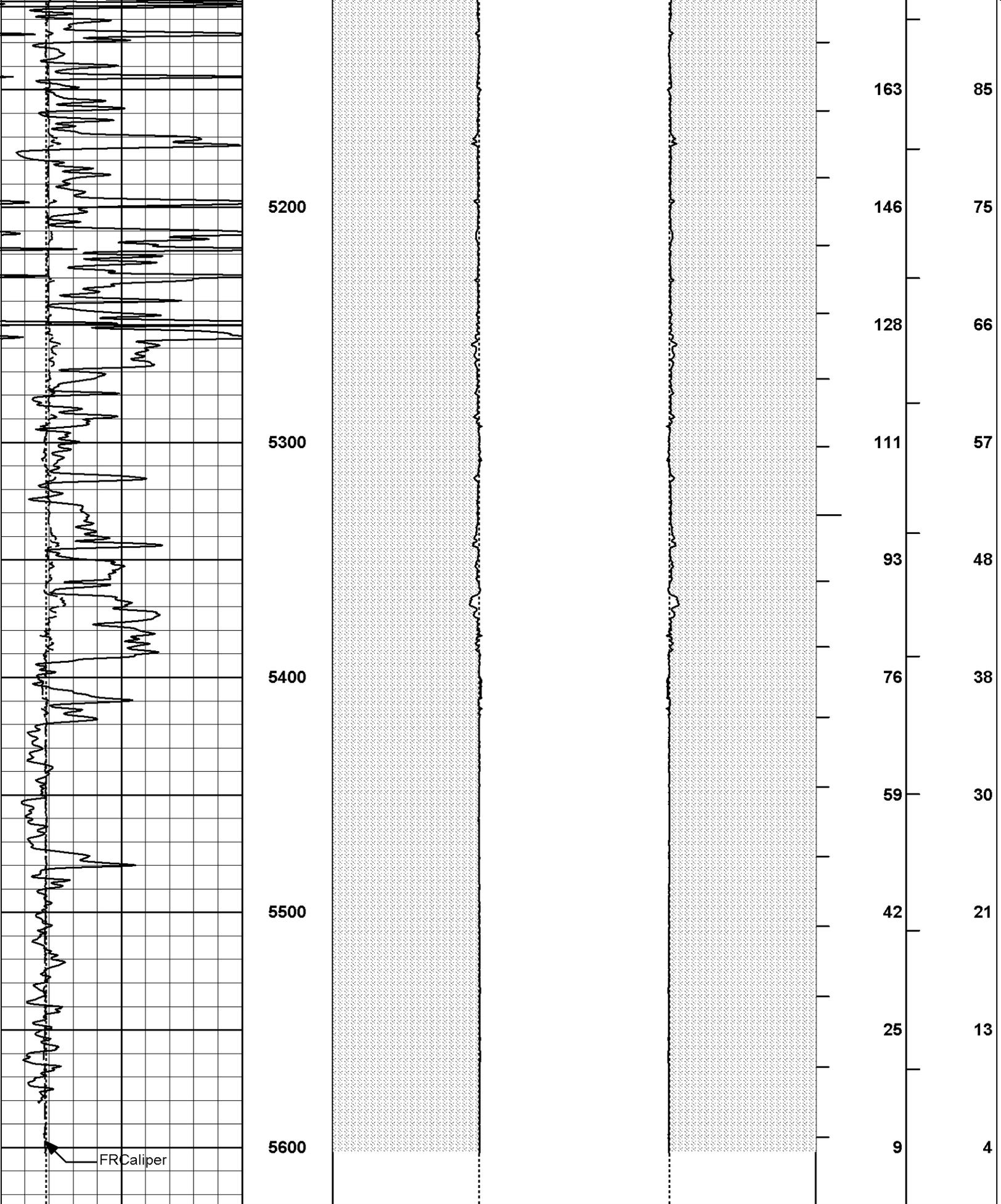
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Data: STAPLETON_6_10\Well Based\DETAIL\
Plot File: \\-LOCAL-STAPLETON_6_10\0001 TRIPLE COMBO\PORO\AHV_5_5_INCH_2_IQ_LIB

ANNULAR HOLE VOLUME PLOT (5.5 INCH)









6	Caliper	16	1 : 600 ft	20	Caliper	0 0	20	BHVT	AHVT
6	BS	16		20	Bit Size	0 0	20		

inches	
Gamma API	150
api	

20	00	20
MUDCAKE		MUDCAKE

HALLIBURTON

Plot Time: 23-Aug-11 21:50:00
 Plot Range: 3990 ft to 5625 ft
 Data: STAPLETON_6_10Well Based\DETAIL\
 Plot File: \\-LOCAL-STAPLETON_6_10\0001 TRIPLE COMBO\PORO\AHV_5_5_INCH_2_IQ_LIB

ANNULAR HOLE VOLUME PLOT (5.5 INCH)

COMPANY	STRATA EXPLORATION		
WELL	STAPLETON 6-10		
FIELD	DIADEN		
COUNTY	HASKELL	STATE	KANSAS

HALLIBURTON	DUAL SPACED NEUTRON SPECTRAL DENSITY LOG
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