

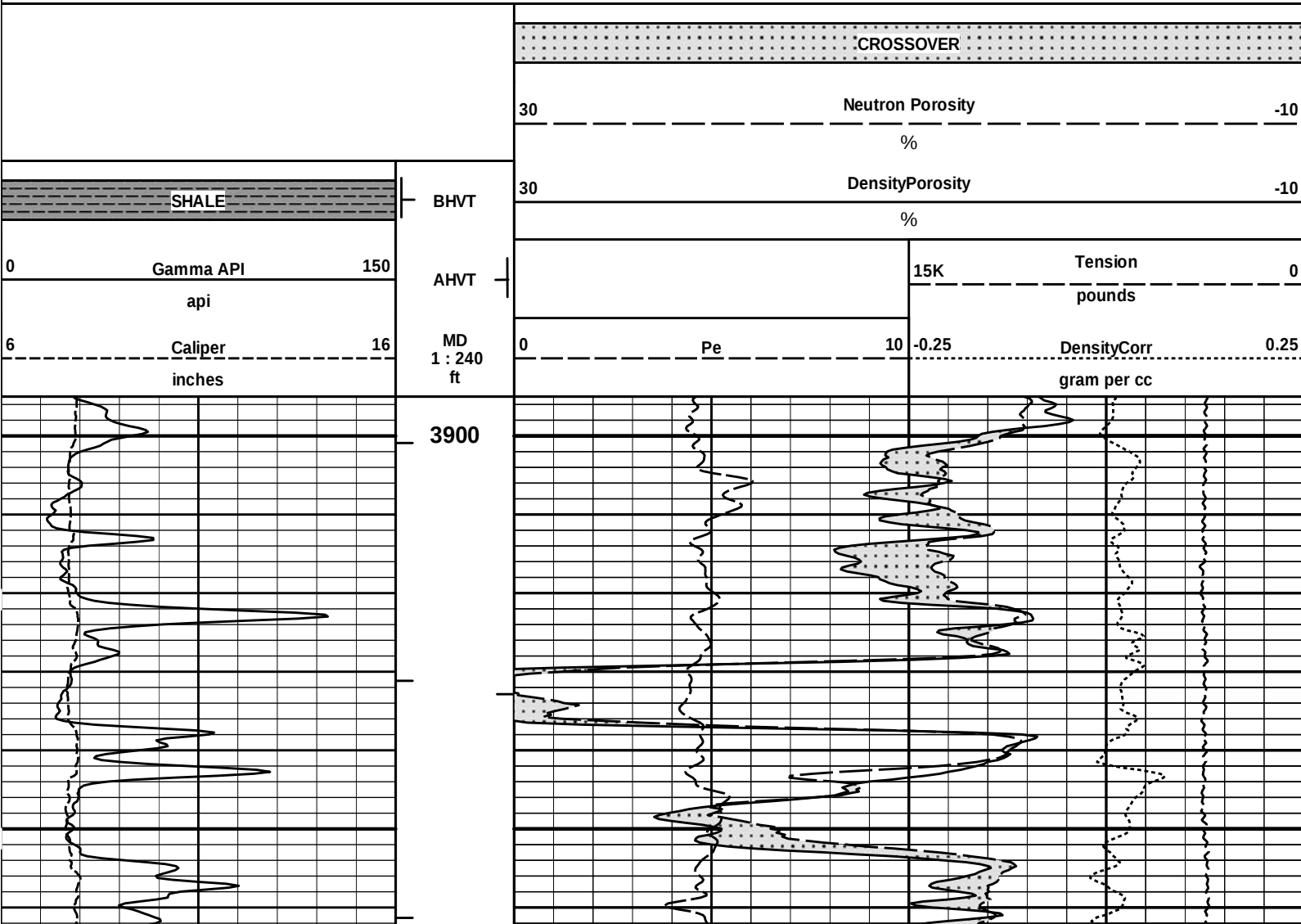
HALLIBURTON

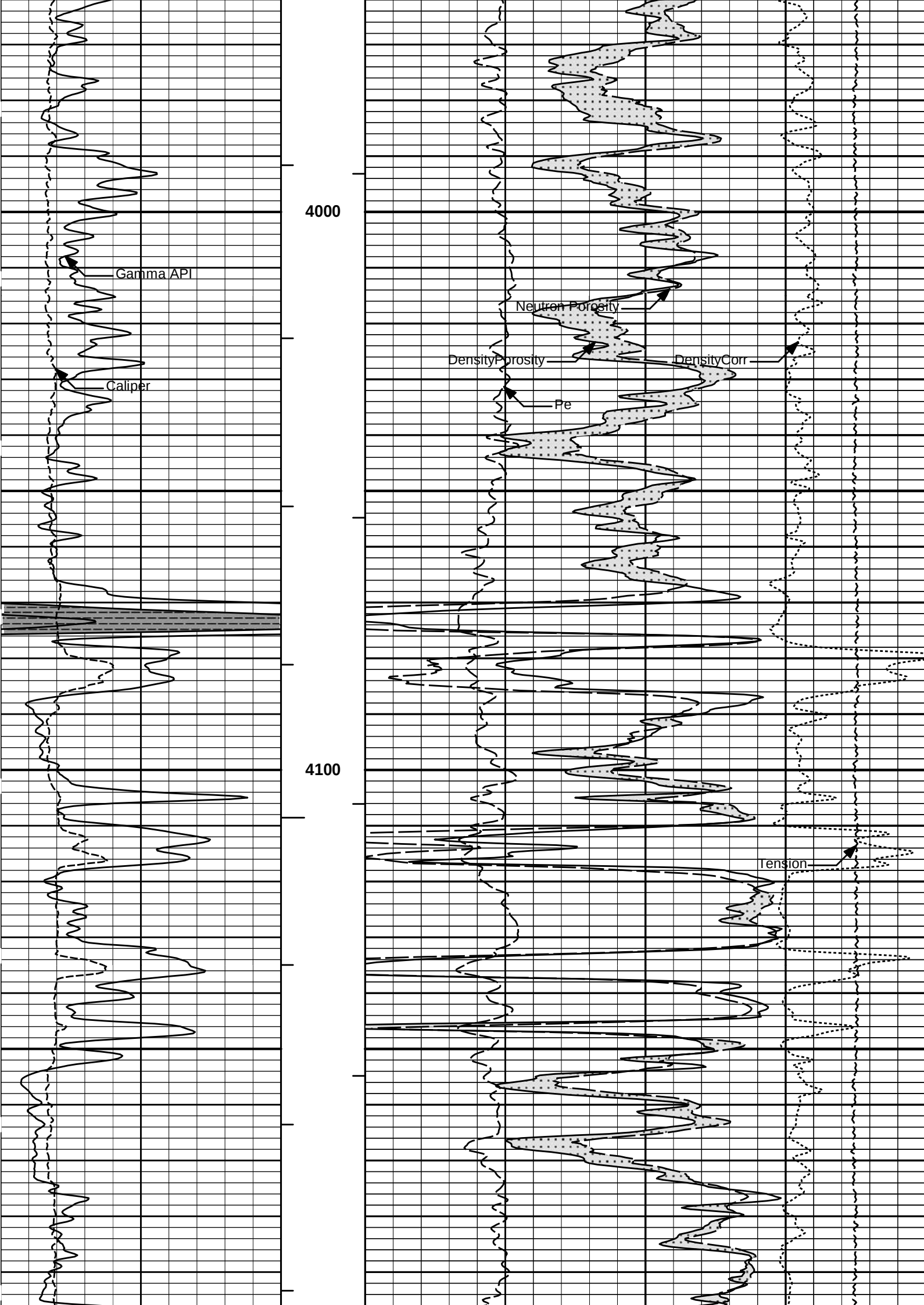
DUAL SPACED NEUTRON SPECTRAL DENSITY LOG

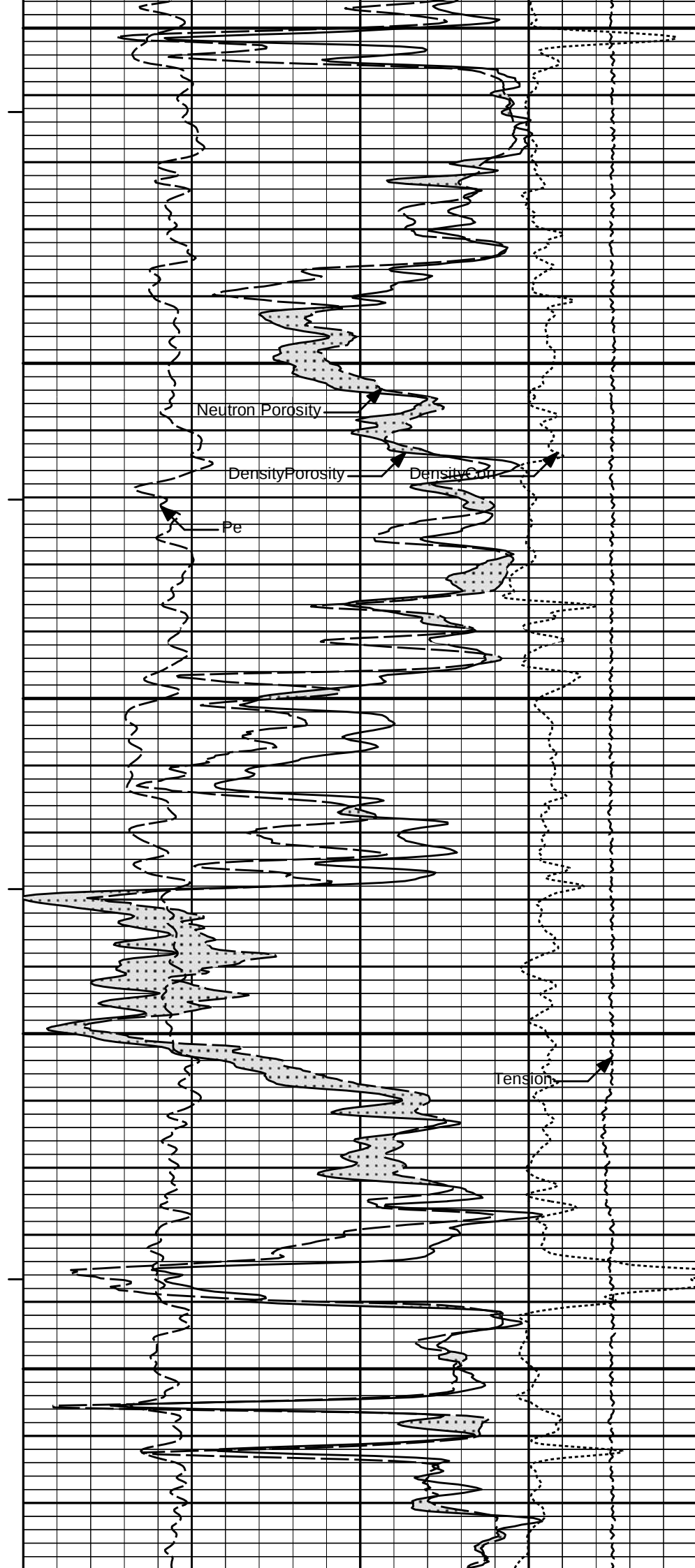
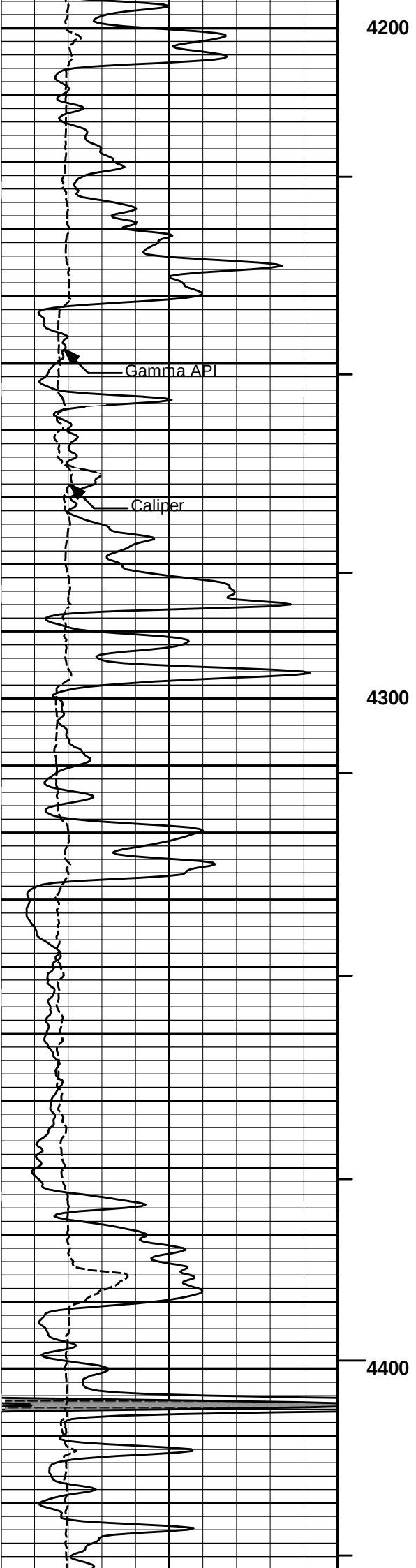
COMPANY				RAYDON EXPLORATION INC.			
WELL				K&G 1-29			
FIELD/BLOCK				WILDCAT			
COUNTY				HASKELL			
STATE				KANSAS			
Permanent Datum				GL			
Log measured from				KB			
Drilling measured from				KB			
Date				08-Sep-15			
Run No.				ONE			
Depth - Driller				5557.00 ft			
Depth - Logger				5557.0 ft			
Bottom - Logged Interval				5468			
Top - Logged Interval				3900			
Casing - Driller				8.625 in @ 1680.0 ft			
Casing - Logger				1673.0 ft @			
Bit Size				7.875 in @			
Type Fluid in Hole				Water Based Mud			
Density				8.9 ppg 73.00 sg/qt			
PH				12.00 pH 6.0 cp/m			
Source of Sample				MUD PIT			
Rm @ Meas. Temperature				1.040 ohmm @ 75.00 degF @			
Rmf @ Meas. Temperature				0.98 ohmm @ 67.00 degF @			
Rmc @ Meas. Temperature				1.360 ohmm @ 67.00 degF @			
Source Rmf				MEASURED			
Rm @ BHT				0.58 ohmm @ 139.0 degF @			
Time Since Circulation				6.5000 hr			
Time on Bottom				08-Sep-15 20:58:10.000			
Max. Rec. Temperature				139.0 degF @ 5557.0 ft @			
Equipment				11230668 LIBERAL			
Recorded By				SHELDON INGERSOLL			
Witnessed By				E. GRIEVES			

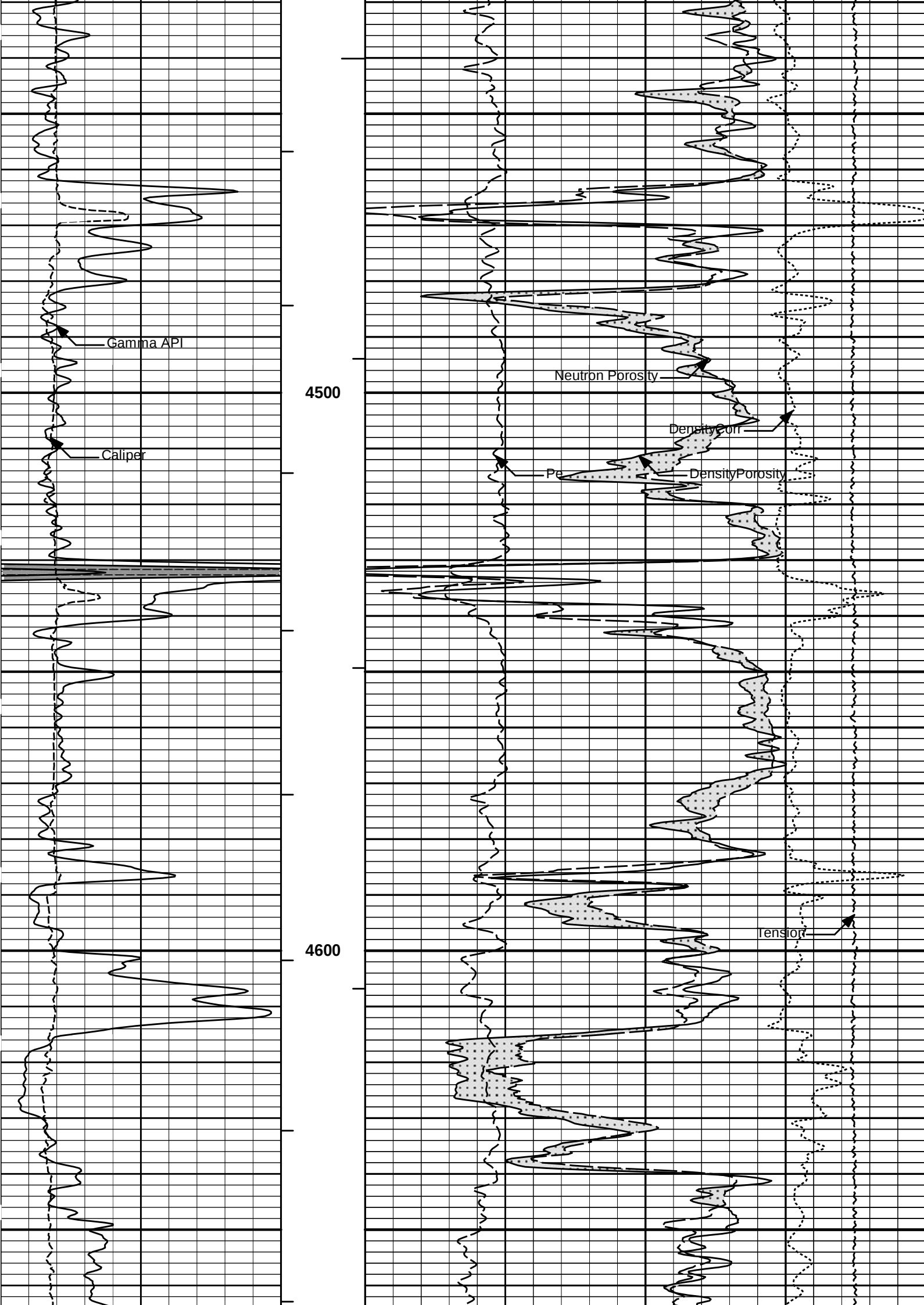
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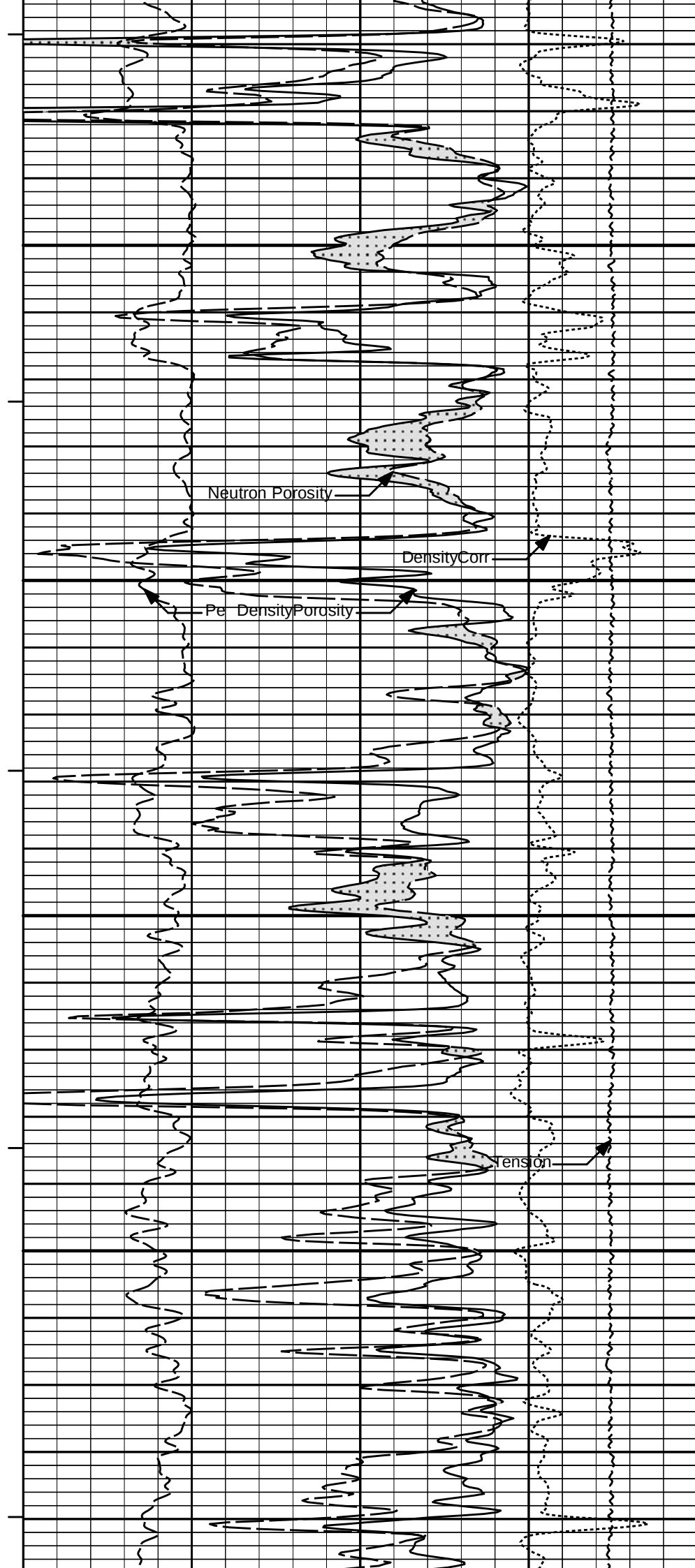
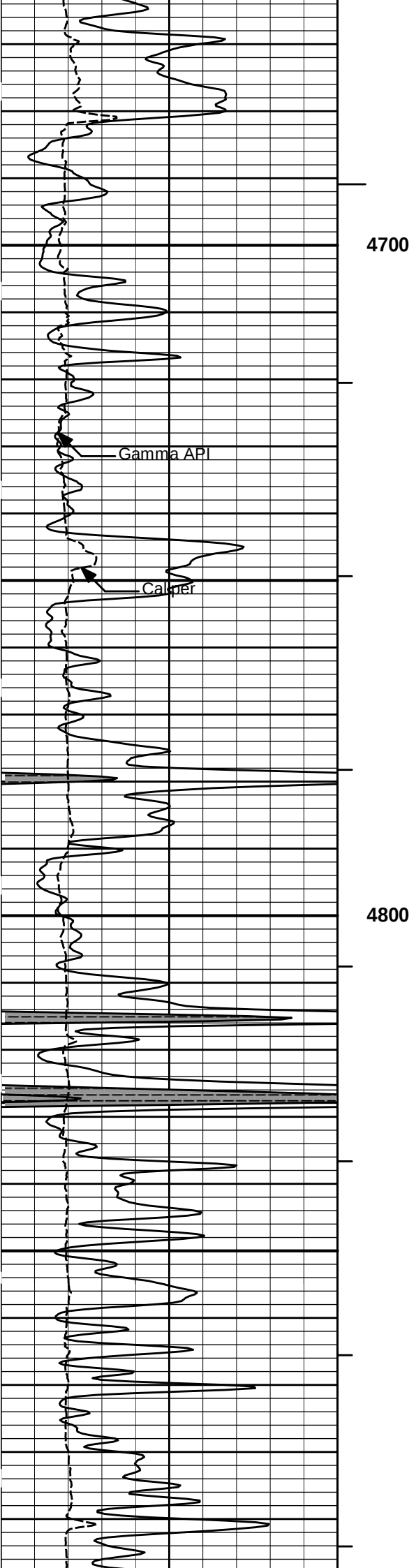
Service Ticket No.: 902658042						API Serial No.: 15-081-22122						PGM Version: WL INSITE R4.6.4 (Build 3)					
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE								RESISTIVITY SCALE CHANGES									
Date	Sample No.							Type Log	Depth	Scale Up Hole			Scale Down Hole				
Depth-Driller																	
Type 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		1.5" S.O.					
Rmc @ Meas. Temp.		@				@			10800784								
Source Rmf	Rmc						ONE	MICROLOG	RUBBER		ADJACENT						
Rm @ BHT		@				@			10673790								
Rmf @ BHT		@				@		ONE	XRMI			ADJACENT					
Rmc @ BHT		@				@			10967400								
EQUIPMENT DATA																	
GAMMA				ACOUSTIC				DENSITY				NEUTRON					
Run No.		ONE		Run No.		ONE		Run No.		ONE		Run No.		ONE			
Serial No.		10811258		Serial No.		10855599		Serial No.		10673790		Serial No.		10735145			
Model No.		GTET		Model No.		WAVESONIC		Model No.		SDLT		Model No.		DSNT			
Diameter		3.625"		No. of Cent.		2		Diameter		5.3"		Diameter		3.625"			
Detector Model No.		T-102		Spacing		.5'		Log Type		GAM-GAM		Log Type		NEU-NEU			
Type		SCINT						Source Type		CS-137		Source Type		AM-241BE			
Length		8"		LSA [Y/N]		YES		Serial No.		5073GW		Serial No.		DSN-436			
Distance to Source		N/A		FWDA [Y/N]		YES		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	TD	CSG	REC	0	150	30	-10	47.6 us/ft	30	-10	2.71 gm/cc	30	-10	LIME			

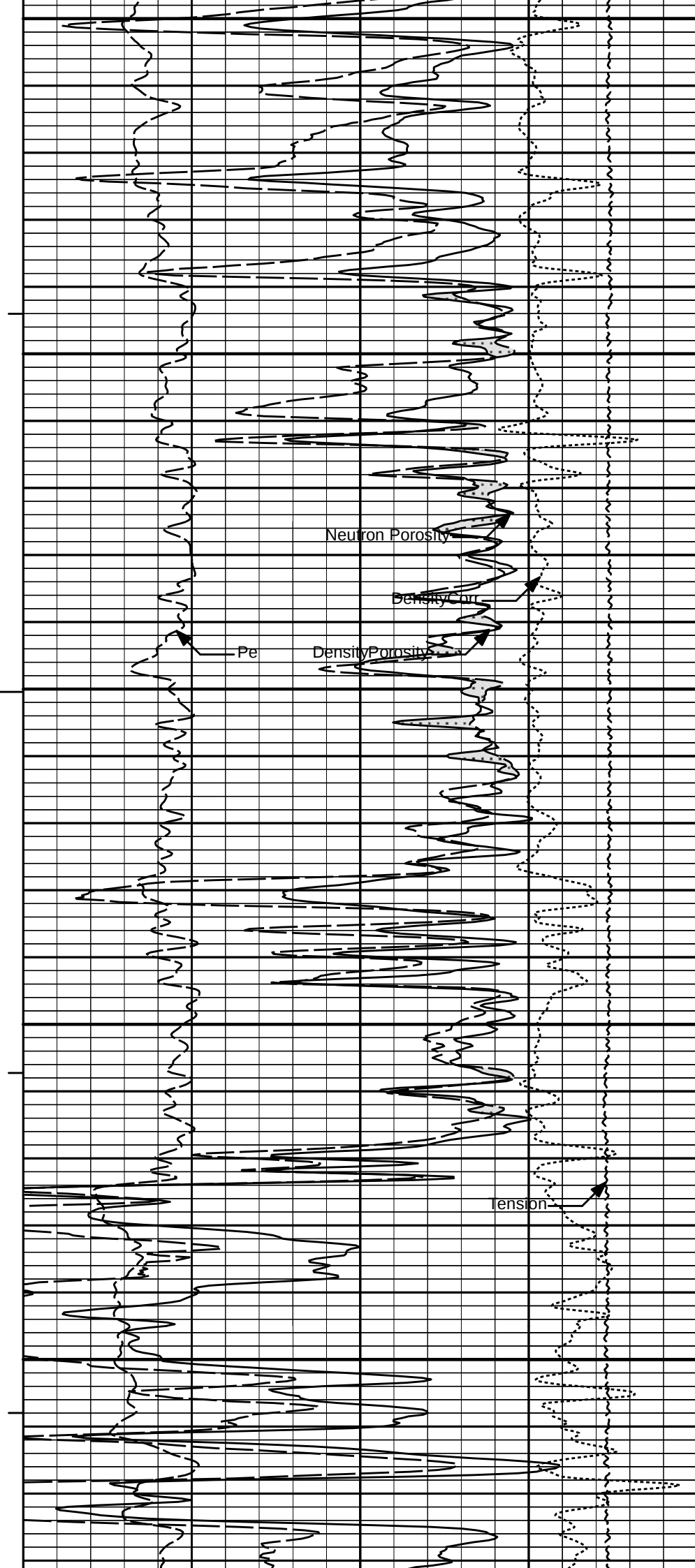
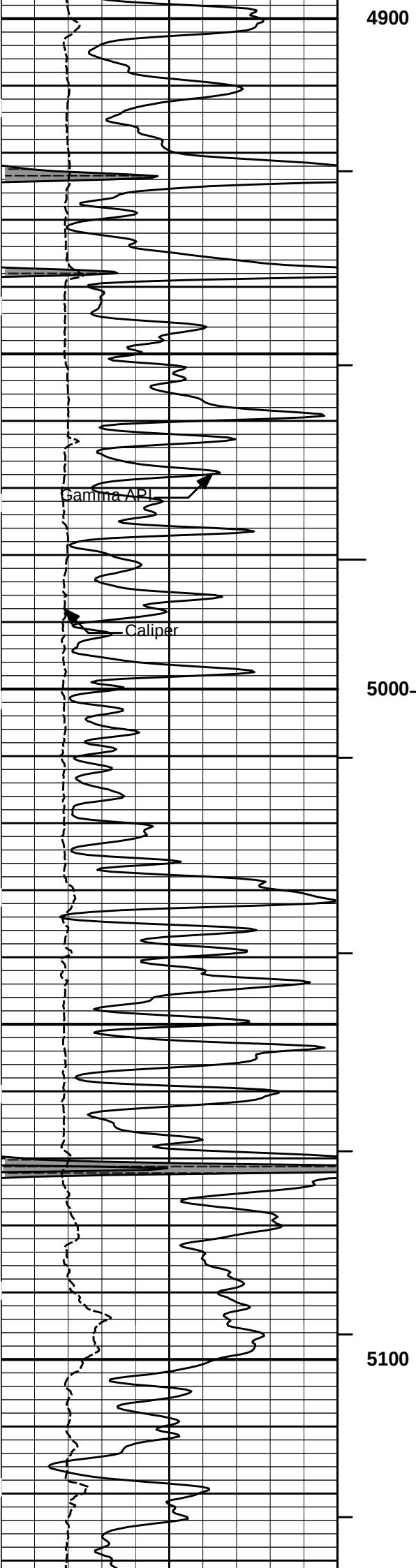


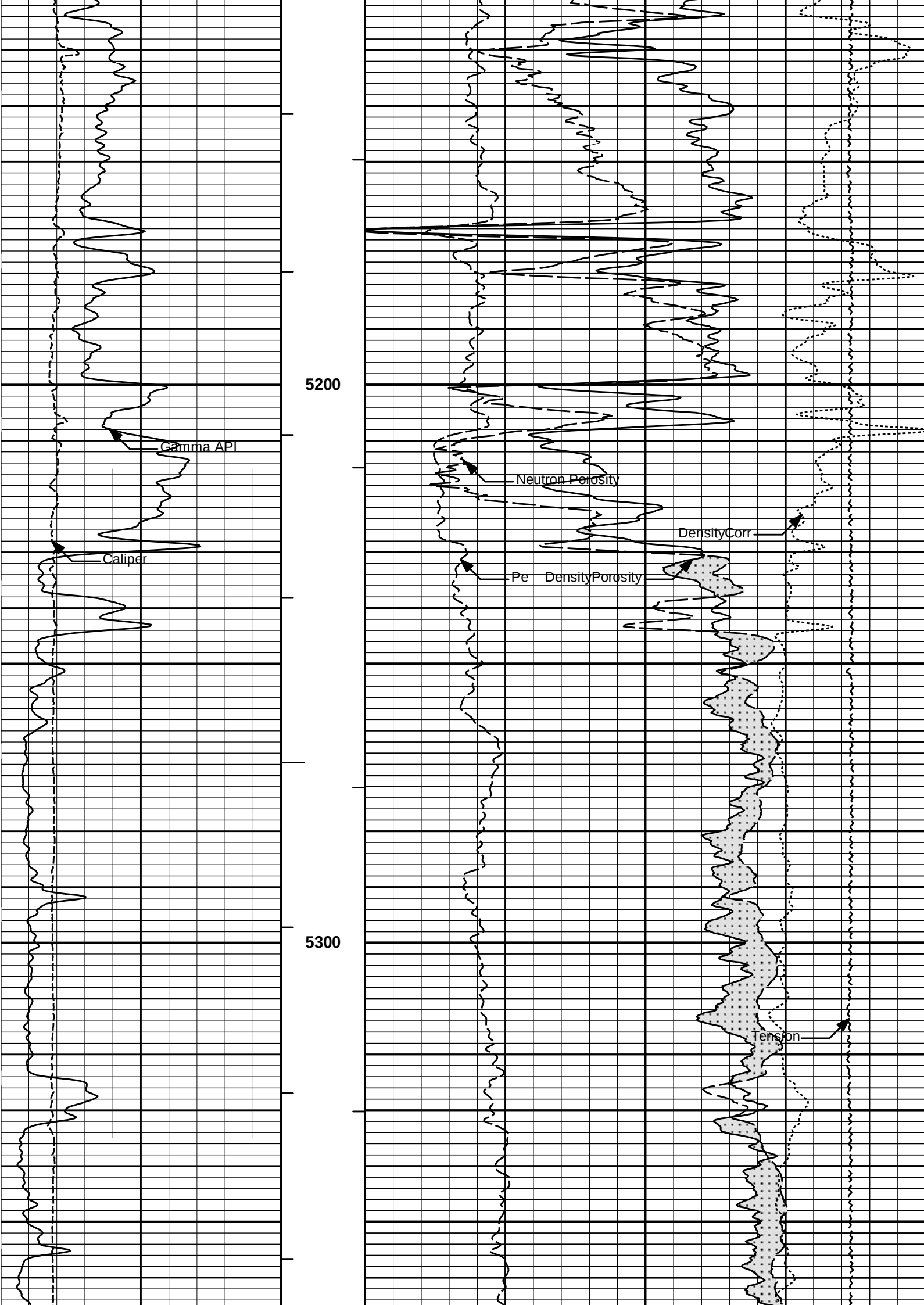


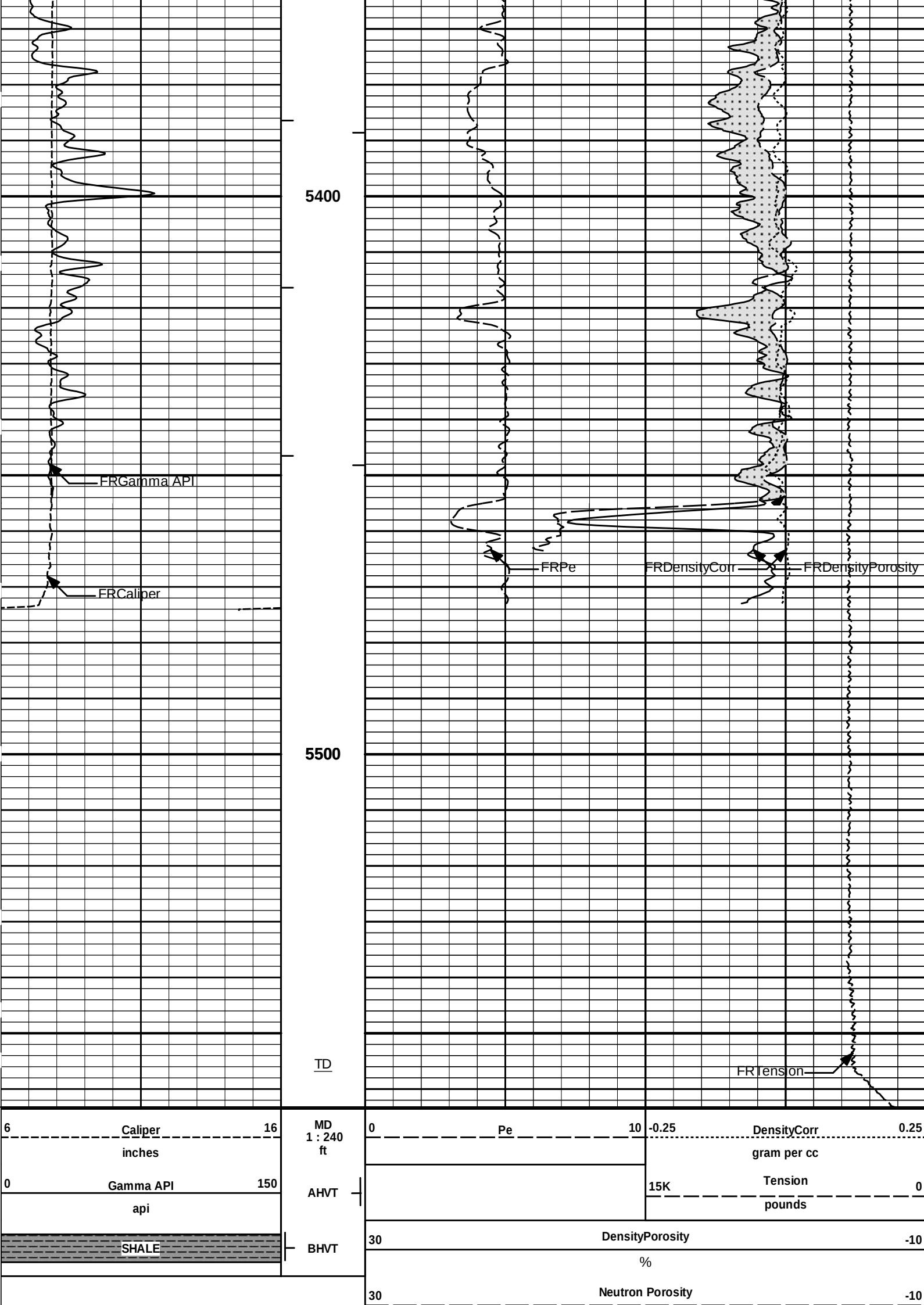


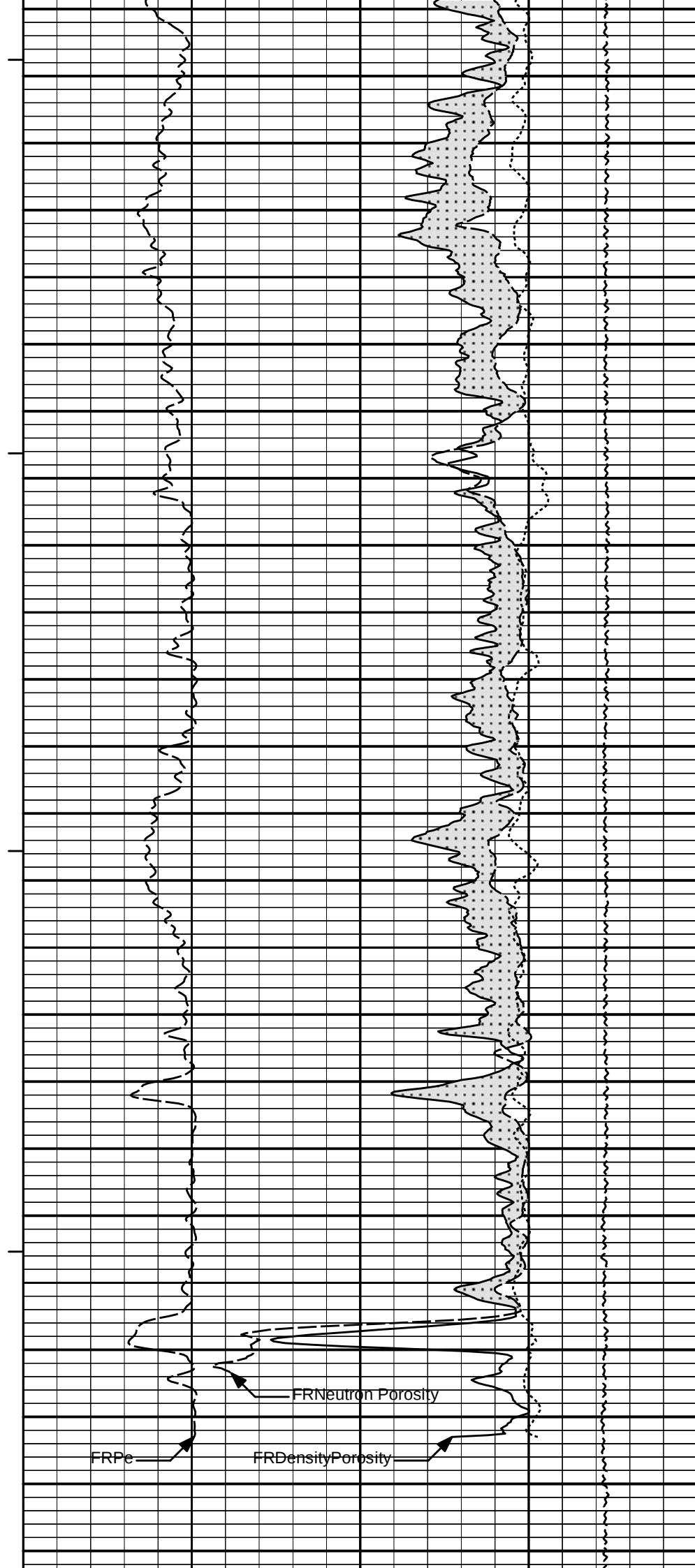
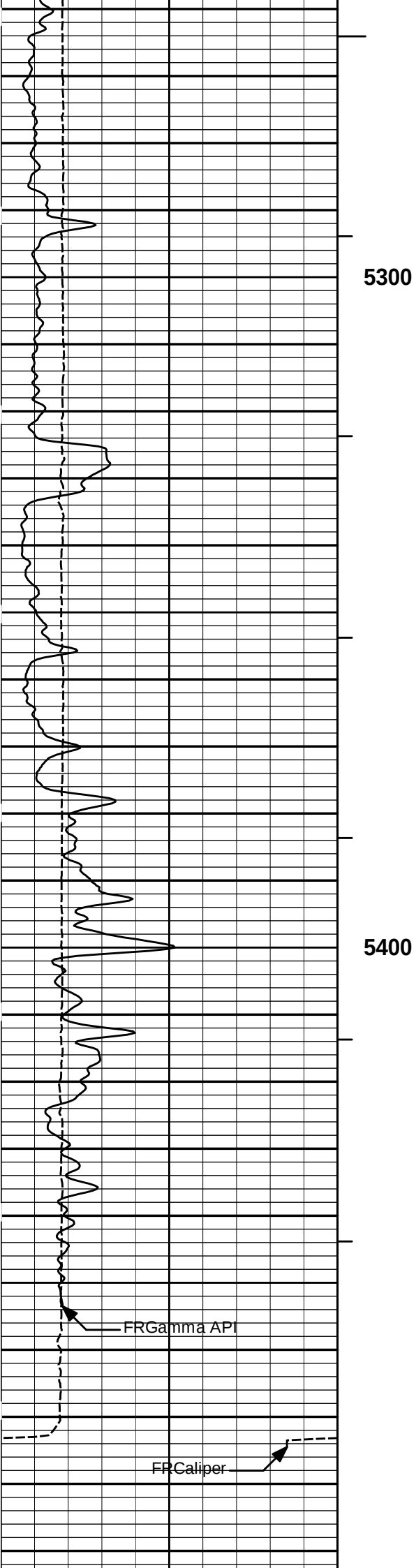


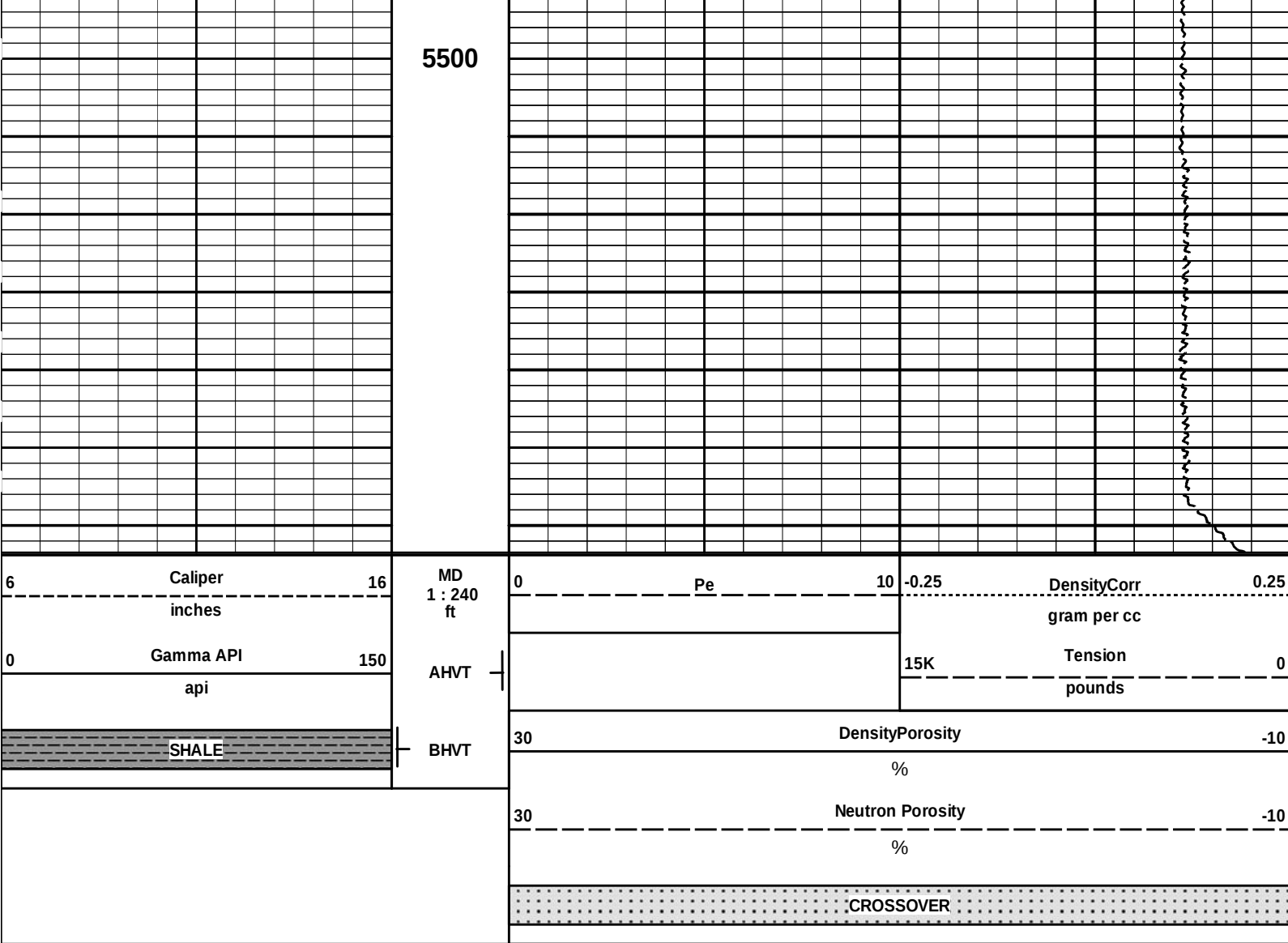












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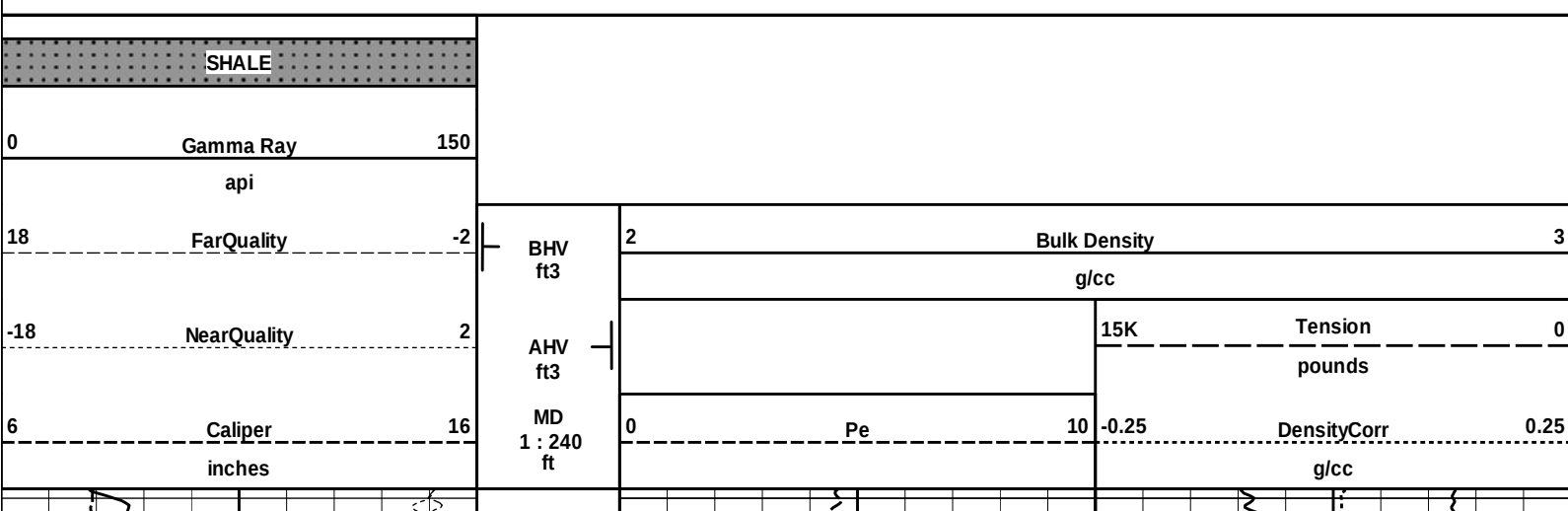
Plot Time: 08-Sep-15 22:35:47
Plot Range: 5150 ft to 5563.5 ft
Data: K&G_1-29\Well Based\IR1 REPEAT\
Plot File: \\POROSITY\Porosity_Q_5_REP_LIB

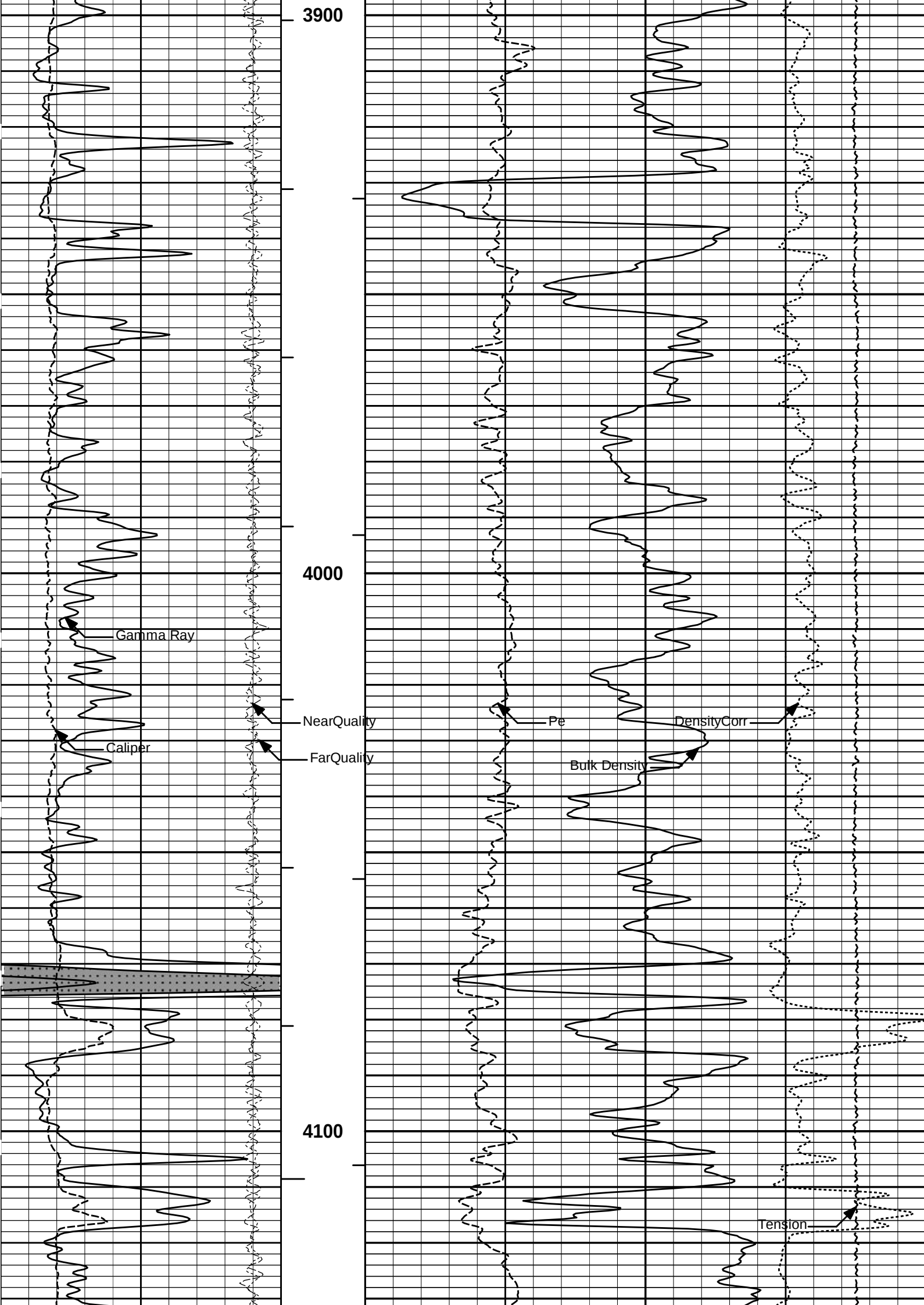
REPEAT SECTION

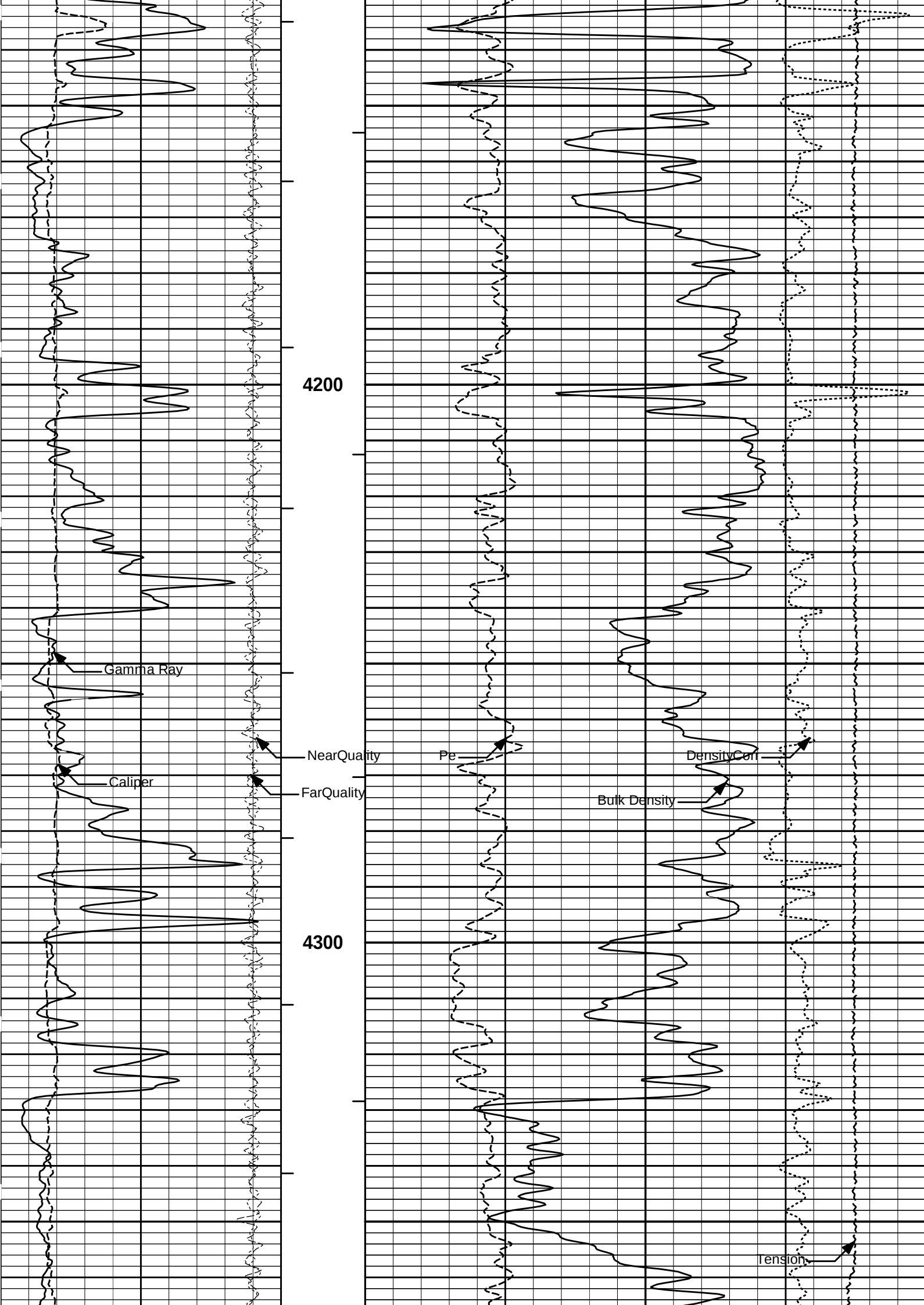
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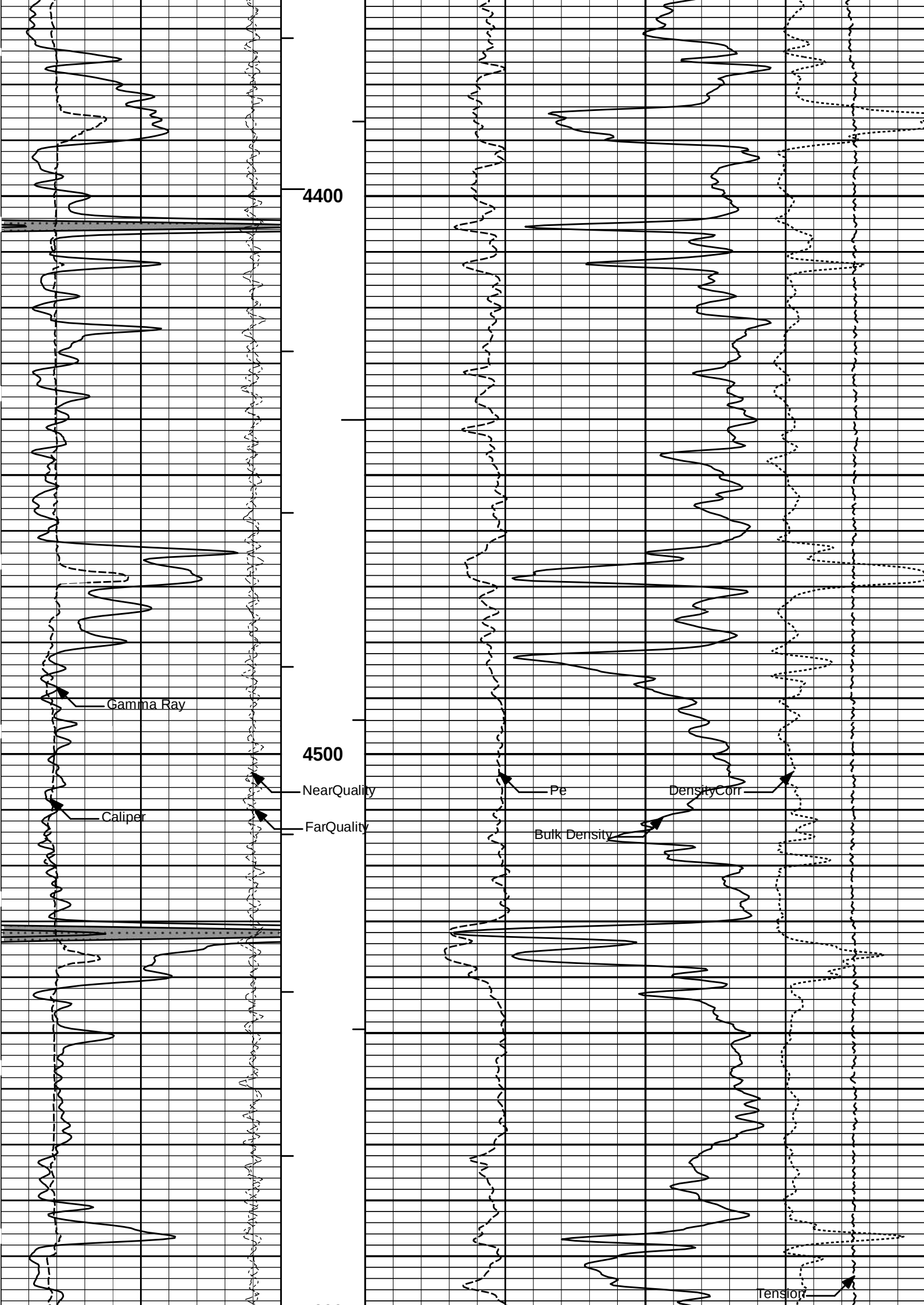
Plot Time: 08-Sep-15 22:35:47
Plot Range: 3895 ft to 5563.25 ft
Data: K&G_1-29\Well Based\IR1 DETAIL\
Plot File: \\LOCAL-1\K&G_1-29\Well Based\POROSITY\BULKD_5_MAIN_LIB

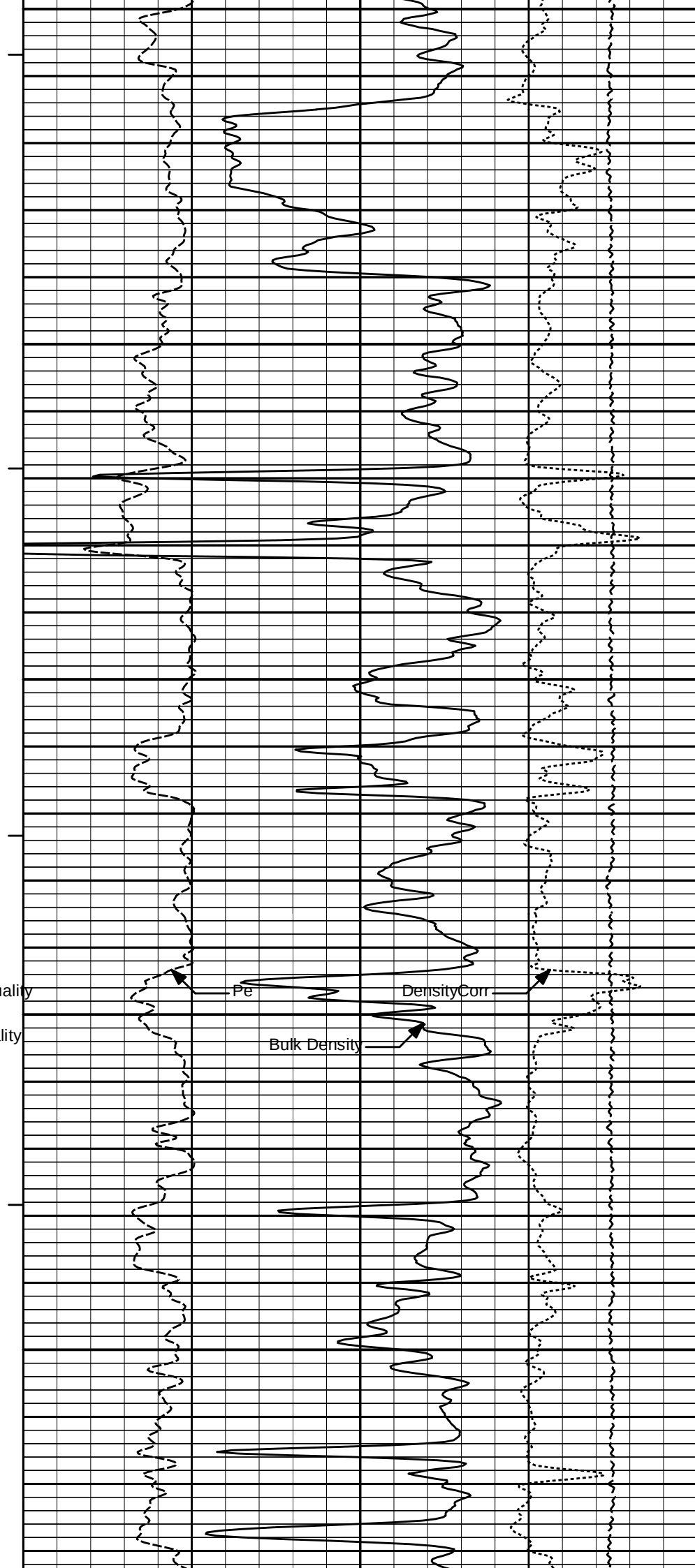
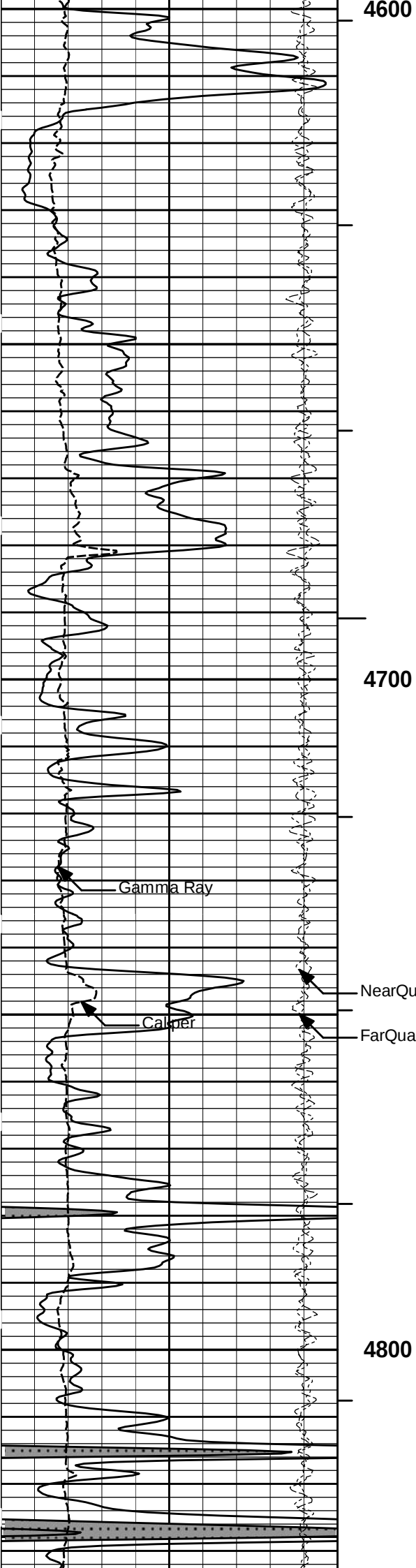
5 INCH MAIN LOG

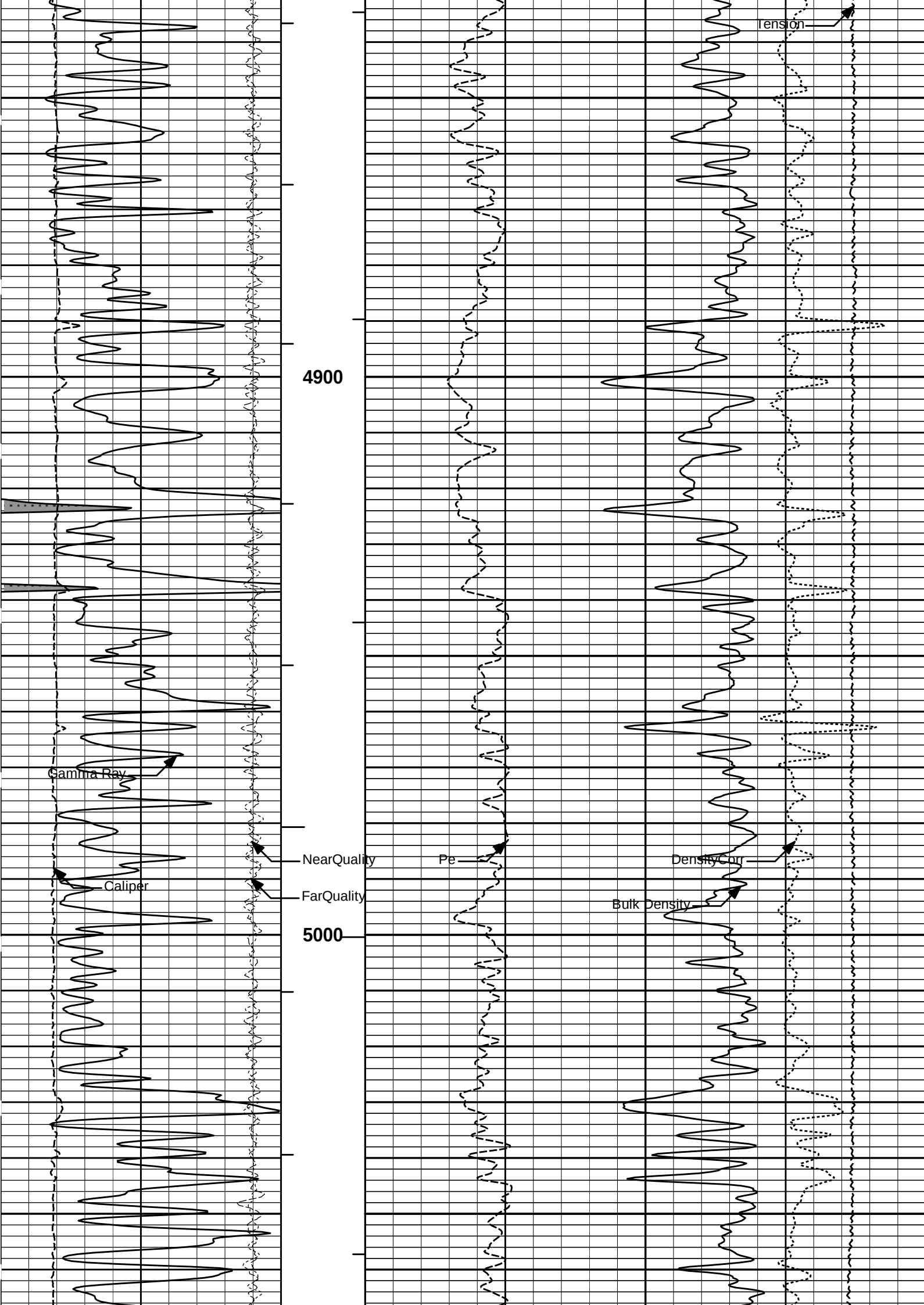


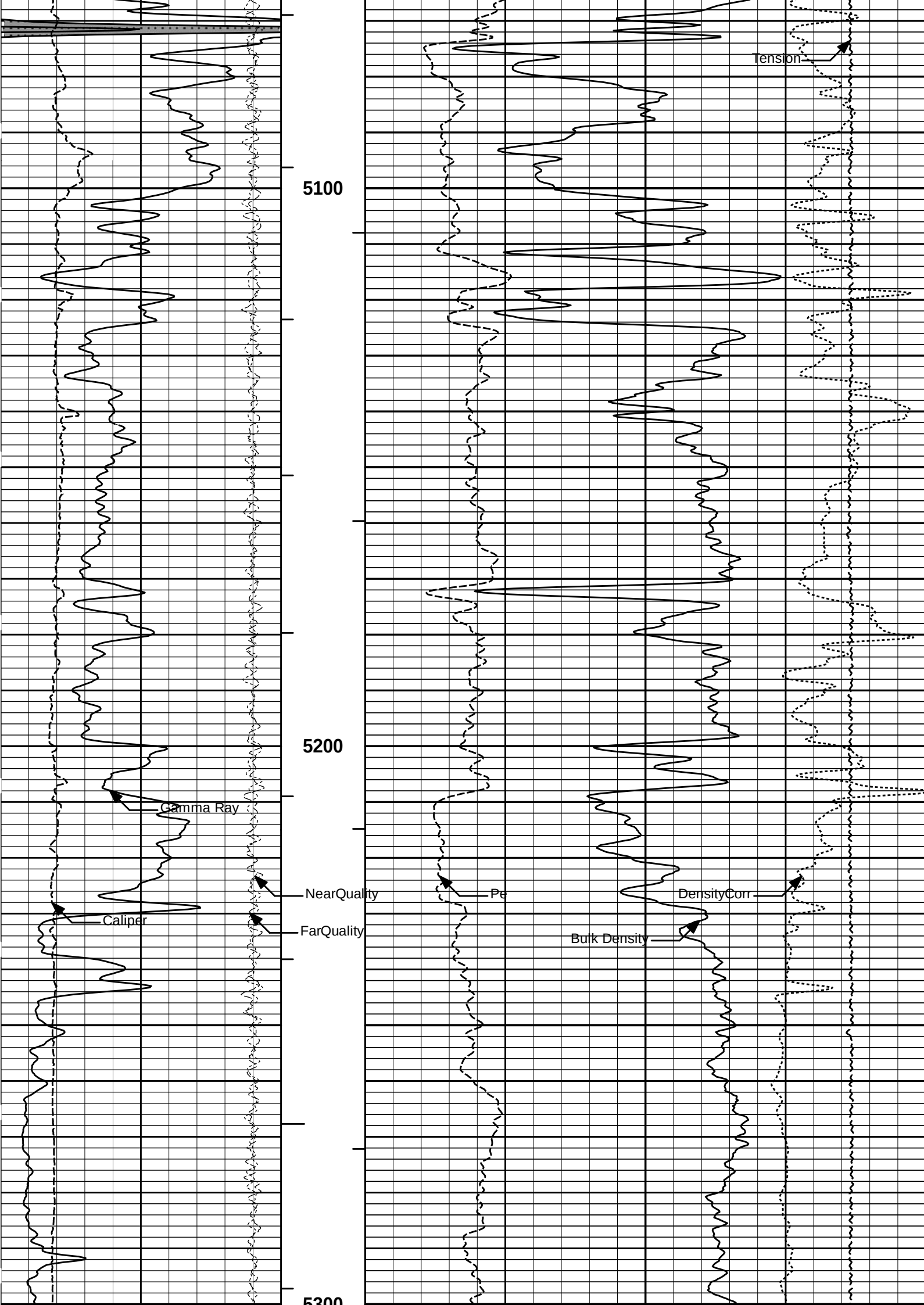


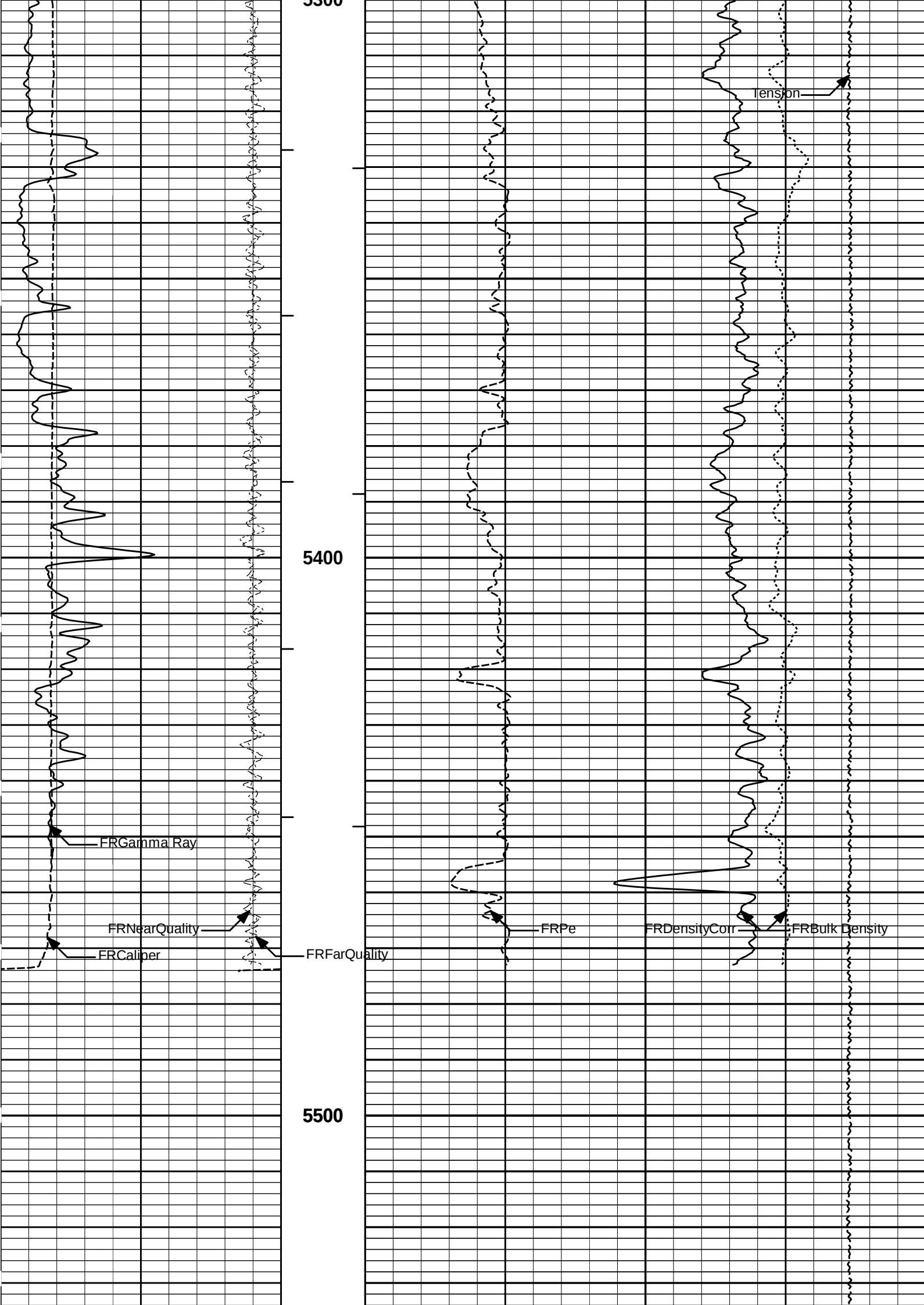


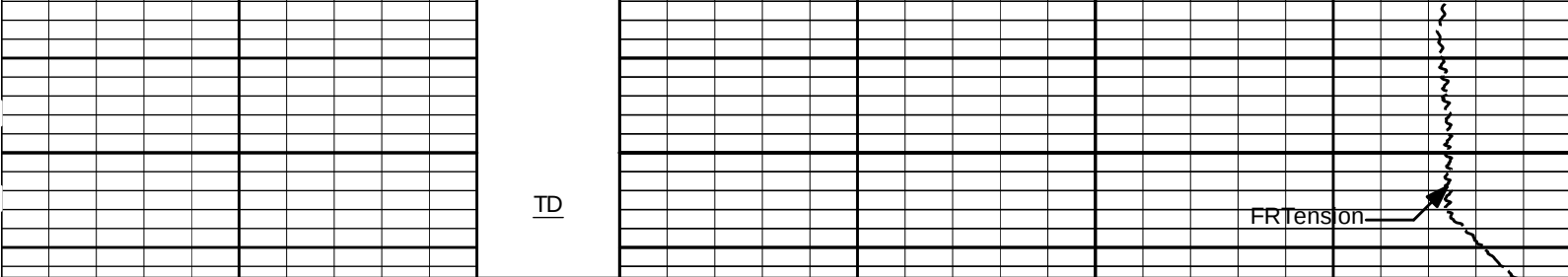












6	Caliper	16	MD	0	10	-0.25	DensityCorr	0.25
	inches		1 : 240				g/cc	
-18	NearQuality	2	AHV			15K	Tension	0
			ft3				pounds	
18	FarQuality	-2	BHV	2			Bulk Density	3
			ft3				g/cc	
0	Gamma Ray	150						
	api							
	SHALE							

HALLIBURTON

Plot Time: 08-Sep-15 22:35:49
Plot Range: 3895 ft to 5563.25 ft
Data: K&G_1-29\Well Based\IR1 DETAIL\
Plot File: \\-LOCAL-IK&G_1-29\Well Based\POROSITY\BULKD_5_MAIN_LIB

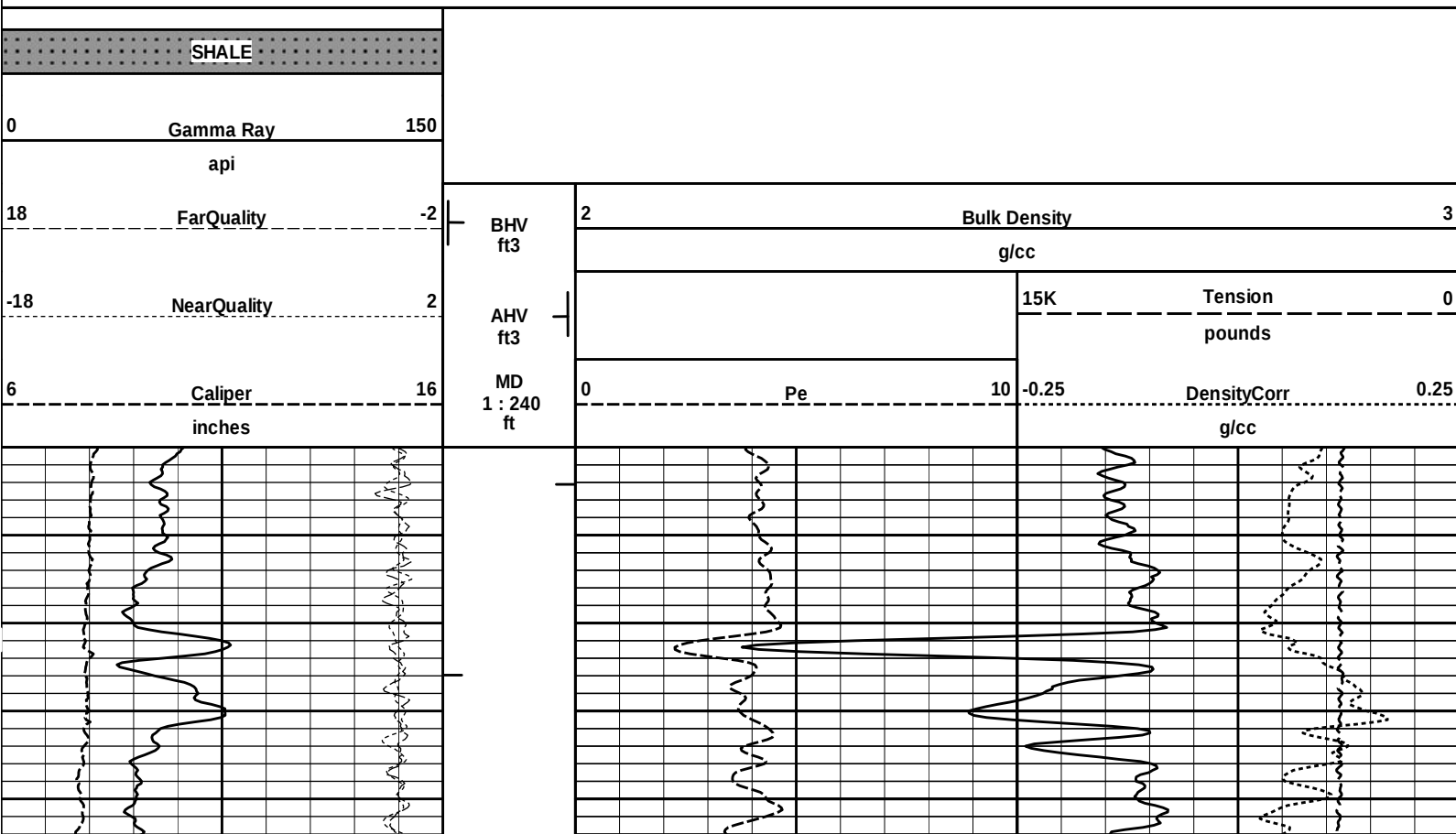
5 INCH MAIN LOG

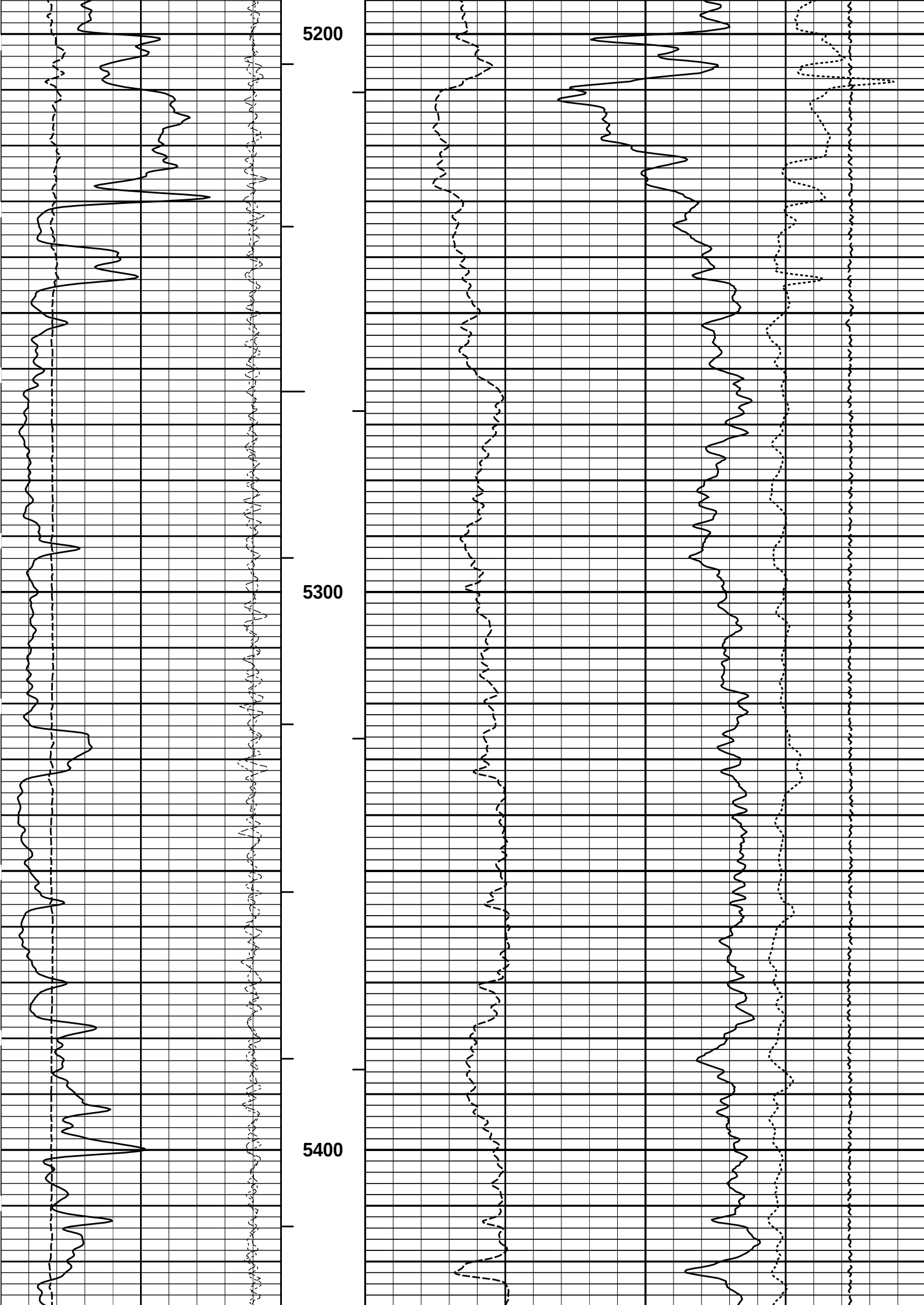
0	Gamma Ray	150						
	api							
18	FarQuality	-2	BHV	2			Bulk Density	3
			ft3				g/cc	
-18	NearQuality	2	AHV			15K	Tension	0
			ft3				pounds	
6	Caliper	16	MD	0	10	-0.25	DensityCorr	0.25
	inches		1 : 240				g/cc	

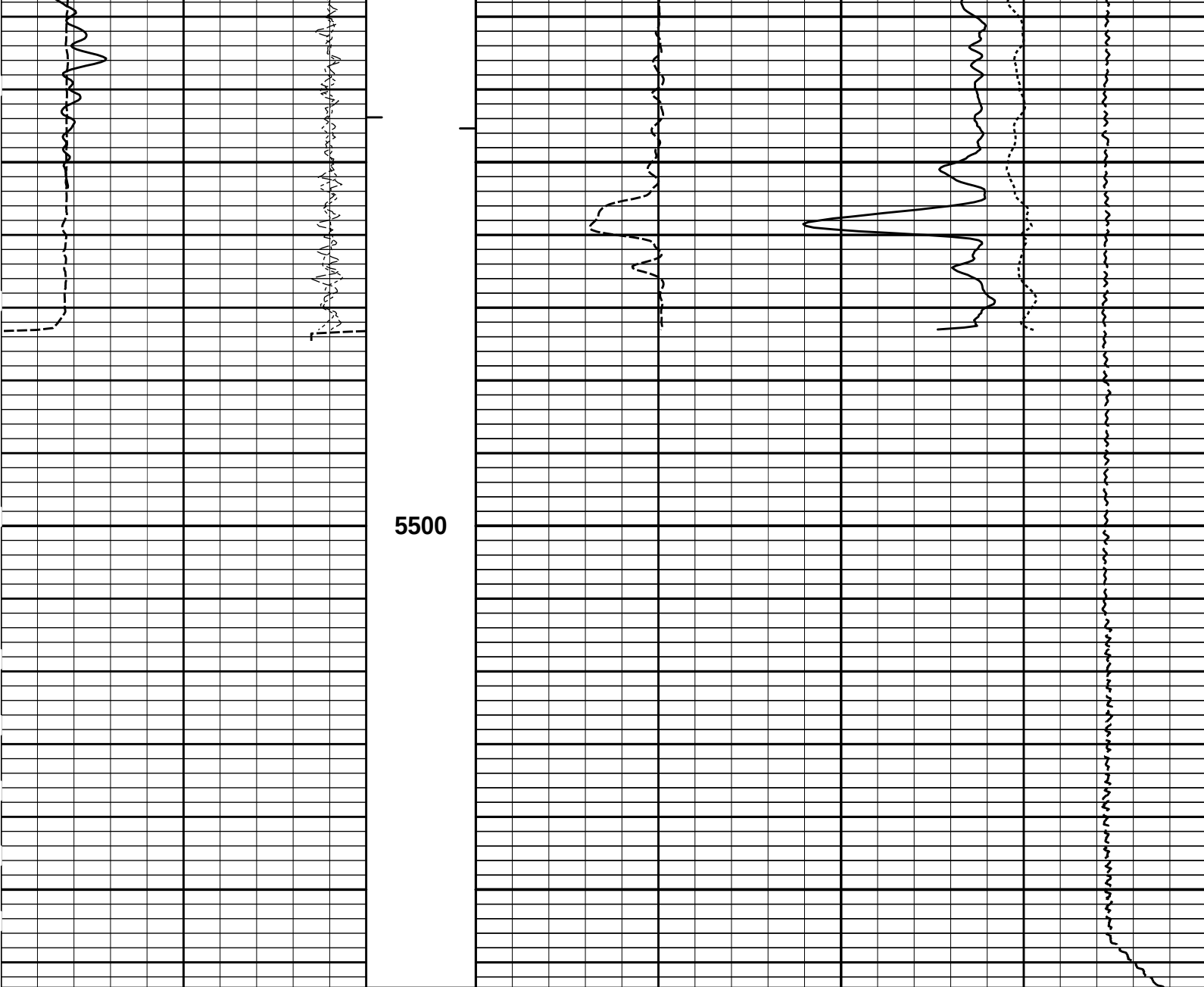
HALLIBURTON

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Plot Range: 5150 ft to 5563.5 ft
Data: K&G_1-29\Well Based\IR1 REPEAT\
Plot File: \\-LOCAL-IK&G_1-29\Well Based\POROSITY\BULKD_5_REP_LIB

REPEAT SECTION







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-Sep-15 22:35:50
Plot Range: 5150 ft to 5563.5 ft
Data: K&G_1-29\Well Based\IR1 REPEAT\
Plot File: \\-LOCAL-K&G_1-29\Well Based\POROSITY\BULKD_5_REP_LIB

REPEAT SECTION

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
Cable Head-12345678 30.00 lbs		Ø 3.625 in →			1.92 ft	120.77 ft
SP Sub-12345678 60.00 lbs		Ø 3.625 in →		← SP @ 117.07 ft	3.74 ft	118.85 ft
GTET-10811258 165.00 lbs		Ø 3.625 in →			8.52 ft	115.11 ft
				← GammaRay @ 109.04 ft		
DSNT-10735145 174.00 lbs	DSN Decentralizer-10735145 6.60 lbs	Ø 5.000 in* → Ø 3.625 in →			9.69 ft	106.59 ft
				← DSN Far @ 99.65 ft ← DSN Near @ 98.90 ft		
SDLT-10673803 360.00 lbs	SDLT Pad-10673790 65.00 lbs Microlog Pad-10673803 8.00 lbs	Ø 4.500 in → Ø 4.750 in* → Ø 4.750 in* →		Microlog @ 89.09 ft SDL Caliper @ 88.90 ft SDL @ 88.89 ft	10.81 ft	96.90 ft
IQ Flex-00000668 140.00 lbs		Ø 3.625 in →			5.67 ft	86.09 ft
WSTT-I Upper Electronics-10855599 115.00 lbs	Centralizer 25-00000001 8.00 lbs	Ø 4.000 in* → Ø 3.625 in →			8.31 ft	80.42 ft
WSTT-I Trans-Isolator - Std-10055645 185.00 lbs		Ø 3.625 in →			10.86 ft	72.11 ft

WSTT-I Receivers-
10055644
100.00 lbs

Ø 3.625 in →

← Wavesonic Delay @ 57.85 ft

6.65 ft

61.25 ft

WSTT-I Lower
Electronics-
10855601
120.00 lbs

Centralizer 25-00000002
8.00 lbs

Ø 3.625 in
Ø 4.000 in* →

8.25 ft

54.60 ft

XRMI Isolator-
00000001
32.50 lbs

Ø 4.500 in →

1.30 ft

46.35 ft

45.04 ft

XRMI-I Instrument-
10967399
290.00 lbs

Ø 4.500 in →

14.30 ft

30.74 ft

XRMI-I Mandrel-
10967400
206.00 lbs

Ø 5.000 in →
Ø 4.500 in →

11.16 ft

19.58 ft

ACRt Instrument-
10811256
50.00 lbs

Regal Standoff 6_75-
00000001
20.00 lbs

Ø 3.625 in →

5.03 ft

Ø 6.750 in* →

14.55 ft

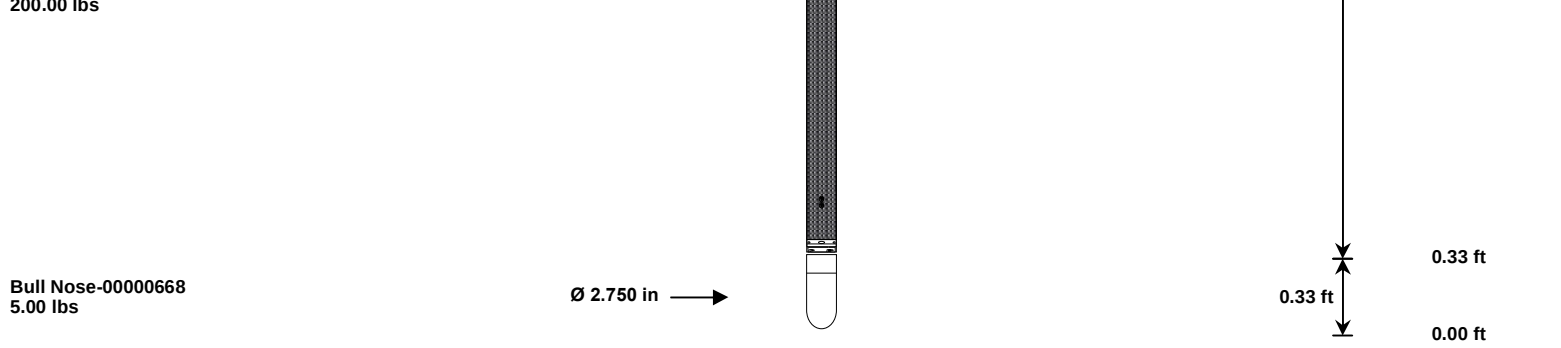
← Mud Resistivity @ 13.19 ft

← ACRt @ 9.21 ft

ACRt Sonde-
10800784

Ø 3.625 in →

14.22 ft



Mnemonic		Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
CH	Standard OH Cable Head		12345678	30.00	1.92	118.85	300.00
SP	SP Sub		12345678	60.00	3.74	115.11	300.00
GTET	Gamma Telemetry Tool		10811258	165.00	8.52	106.59	60.00
DSNT	Dual Spaced Neutron		10735145	174.00	9.69	96.90	60.00
DCNT	DSN Decentralizer		10735145	6.60	5.13	* 100.23	300.00
SDLT	Spectral Density Tool		10673803	360.00	10.81	86.09	60.00
SDLP	Density Insite Pad		10673790	65.00	2.55	* 88.30	60.00
MICP	Microlog Pad		10673803	8.00	1.00	* 88.59	60.00
IQF	IQ Flex tool		00000668	140.00	5.67	80.42	300.00
WSTT	WaveSonic Insite - Upper Electronics		10855599	115.00	8.31	72.11	100.00
OBCEN	Centralizer - 25 in. Overbody		00000001	8.00	2.08	* 75.54	300.00
WSTT	WaveSonic Insite - Trans-Isolator - Std		10055645	185.00	10.86	61.25	100.00
WSTT	WaveSonic Insite - Receivers		10055644	100.00	6.65	54.60	30.00
WSTT	WaveSonic Insite - Lower Electronics		10855601	120.00	8.25	46.35	100.00
OBCEN	Centralizer - 25 in. Overbody		00000002	8.00	2.08	* 49.27	300.00
	Isolator for the XRMI tool		00000001	32.50	1.30	45.04	300.00
XRMI	XRMI Navigation - Insite		10967399	290.00	14.30	30.74	30.00
XRMI-I	XRMI Imager - Insite		10967400	206.00	11.16	19.58	30.00
ACRt	Array Compensated True Resistivity Instrument Section		10811256	50.00	5.03	14.55	120.00
RSOF	Regal Standoff 6.75in		00000001	20.00	0.52	* 14.71	300.00
ACRt	Array Compensated True Resistivity Sonde Section		10800784	200.00	14.22	0.33	120.00
BLNS	Bull Nose		00000668	5.00	0.33	0.00	300.00
Total				2,348.10	120.77		
* Not included in Total Length and Length Accumulation.							
Data: K&G_1-2910002 SP-GTET-DSNT-SDLT-FLEX-WAVE-XRMI-ACRT-BNIDLE							
Date: 08-Sep-15 17:27:31							

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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	8.900	ppg
	SHARED	WAGT	Weighting Agent	Natural	
	SHARED	BSAL	Borehole salinity	2803.00	ppm
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%
	SHARED	RMUD	Mud Resistivity	1.040	ohmm
	SHARED	TRM	Temperature of Mud	75.0	degF
	SHARED	CSD	Logging Interval is Cased?	No	
	SHARED	ICOD	AHV Casing OD	5.500	in
	SHARED	ST	Surface Temperature	75.0	degF
	SHARED	TD	Total Well Depth	5557.00	ft
	SHARED	BHT	Bottom Hole Temperature	135.0	degF
	SHARED	SVTM	Navigation and Survey Master Tool	XRMI-I Instrument	

SHARED	SVTM	Navigation and Survey Master Tool	XRMI-I Instrument	
SHARED	AZTM	High Res Z Accelerometer Master Tool	XRMI-I Instrument	
SHARED	TEMM	Temperature 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	
Rwa / CrossPlot	BHSM	Borehole Size Source Tool	XRMI-I Mandrel	
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	
GTET	BHSM	Borehole Size Source Tool	XRMI-I Mandrel	
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	
DSNT	BHSM	Borehole Size Source Tool	XRMI-I Mandrel	
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
SDLT Pad	BHSM	Borehole Size Source Tool	SDLT	
Microlog Pad	MLOK	Process MicroLog Outputs?	Yes	
WSTT-I Receivers	WSOK	Process WSTT?	Yes	
WSTT-I Receivers	AFIL	Adaptive Filtering?	No	
WSTT-I Receivers	PINT	Process 1 Sample and Skip	0	
WSTT-I Receivers	PROM	Process Mode: M=1,MX=2,MY=3,MXY=4	4	
WSTT-I Receivers	DTSH	Delta -T Shale	100.00	uspf
WSTT-I Receivers	DTMT	Delta -T Matrix Type	User define	
WSTT-I Receivers	DTMA	Delta -T Matrix	47.60	uspf
WSTT-I Receivers	DTFL	Delta -T Fluid	189.00	uspf
WSTT-I Receivers	RHOM	Matrix Density	2.7100	g/cc
WSTT-I Receivers	RHOF	Fluid Density	1.0000	g/cc
WSTT-I Receivers	SMTH	Semblance Threshold	0.25	
WSTT-I Receivers	VPVS	VPVS Ratio for Porosity	1.40	

Receivers				
WSTT-I Receivers	APEQ	Acoustic Porosity Equation	Wylie	
WSTT-I Receivers	NAVS	Navigation Source Tool	XRMI-I Instrument	
XRMI-I Instrument	WRTI	Survey Writing Interval	30	ft
XRMI-I Instrument	SOPT	Smoothing Option	None	
XRMI-I Mandrel	DIMG	Process XRMI?	Yes	
XRMI-I Mandrel	ALMT	Image Alignment Method	TOOL	
XRMI-I Mandrel	AGN	Use Button Auto Gain?	Yes	
XRMI-I Mandrel	BCLR	Button Auto Gain Color	127	
XRMI-I Mandrel	BFIL	Button Auto Gain Filter	0.020	
XRMI-I Mandrel	BGAN	Button Gain Value	0.001	
XRMI-I Mandrel	BOFF	Button Offset	0	
XRMI-I Mandrel	DIPE	Process Dipmeter Calculations?	Yes	
XRMI-I Mandrel	BHCS	Process Borehole Corrections?	Yes	
XRMI-I Mandrel	BHSM	Borehole Size Source Tool	XRMI-I Mandrel	
XRMI-I Mandrel	CLOK	Process Caliper Outputs?	Yes	
XRMI-I Mandrel	CMAX	Caliper Maximum Limit	100.0	in
XRMI-I Mandrel	CMIN	Caliper Mimimum Limit	3.5	in
XRMI-I Mandrel	NAVS	Navigation Source Tool	XRMI-I Instrument	
XRMI-I Mandrel	BHVC	Radius type for borehole volume calcuations	Elliptical	
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
ACRt Sonde	BHSM	Borehole Size Source Tool	XRMI-I Mandrel	
ACRt Sonde	MBFL	Apply Corkscrew Effect?	No	
BOTTOM				
Data: K&G_1-29\0002 SP-GTET-DSNT-SDLT-FLEX-WAVE-XRMI-ACRT-BN\007 08-Sep-15 18:58 Up @5566.0f			Date: 08-Sep-15 21:58:42	

HALLIBURTON				
CALIBRATION REPORT				
NATURAL GAMMA RAY TOOL SHOP CALIBRATION				
Tool Name:	GTET - 10811258	Reference Calibration Date:	27-Aug-15 10:08:00	
Engineer:	SHELDON INGERSOLL	Calibration Date:	08-Sep-15 09:16:34	
Software Version:	WL INSITE R4.6.4 (Build 3)	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	67.9	69.0	api	
Background + Calibrator	296.3	301.0	api	
Calibrator	228.3	232.0	api	
NATURAL GAMMA RAY TOOL FIELD CALIBRATION				
Tool Name:	GTET - 10811258	Reference Calibration Date:	08-Sep-15 09:16:34	

Engineer:	SHELDON INGERSOLL	Calibration Date:	08-Sep-15 09:21:05
Software Version:	WL INSITE R4.6.4 (Build 3)	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	69.0	70.3	api
Background + Calibrator	301.0	302.9	api
Calibrator	232.0	232.5	api
Shop	Field	Difference	Tolerance
232.0	232.5	-0.5	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION				
Tool Name:	DSNT - 10735145	Reference Calibration Date:	31-Aug-15 10:36:54	
Engineer:	SHELDON INGERSOLL	Calibration Date:	31-Aug-15 10:49:35	
Software Version:	WL INSITE R4.6.4 (Build 3)	Calibration Version:	1	
Logging Source S/N: DSN-436				
Tank Serial Number: LIBERAL				
Reference value assigned to Tank: 51.680				
Snow Block S/N: 668				
Calibration Tank Water Temperature: 68 degF				
Min. Tool Housing Outside Diameter: 3.625 in				
CALIBRATION CONSTANTS				
Measurement	Prev. Value	New Value	Control Limit On New Value	
Gain:	0.947	0.949	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):	0.2102	0.2110	0.0008	+/- 0.0020
Calibrated Ratio:	9.70	9.73	0.025	+/- 0.050
VERIFIER				
Measurement	Value	Control Limit		
Snow-Block Porosity (decP):	0.0649	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 - 10735145		Reference Calibration Date:	31-Aug-15 10:49:35
Engineer:	SHELDON INGERSOLL		Calibration Date:	08-Sep-15 17:26:00
Software Version:	WL INSITE R4.6.4 (Build 3)		Calibration Version:	1
Logging Source S/N: DSN-436				
Snow Block S/N: 668				
NEUTRON FIELD-CHECK SUMMARY				
	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decP):	0.0649	0.0790	0.0141	+/- 0.0150

PASS/FAIL SUMMARY				
Block Change Check:		Passed		
Snow Block Stat Check:		Passed		
Temperature Check:		Passed		
DENSITY CALIPER SHOP CALIBRATION				
Tool Name:	SDLT - 10673803	Reference Calibration Date:	29-Jul-15 15:46:17	
Engineer:	SHELDON INGERSOLL	Calibration Date:	27-Aug-15 11:01:05	
Software Version:	WL INSITE R4.6.4 (Build 3)	Calibration Version:	1	
Host Tool Name:	DSNT - 10735145			
CALIBRATION COEFFICIENTS				
Measurement	Previous Value	New Value	Control Limit On New Value	
Pad Offset	-2347.51	-1630.65	-7000.00 - -1000.00	
Pad Gain	0.0004026	0.0003831	0.000200 - 0.000600	
Arm Offset	-3093.27	-3715.35	-5000.00 - 3000.00	
Arm Gain	0.0005330	0.0005277	0.000300 - 0.000700	
Arm Power	-0.000005649	-0.000005650	-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)	1.81	2.00	0.19	+/- 0.20
Medium Ring (in)	3.65	3.75	0.10	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.54	6.50	-0.04	+/- 0.20
Medium Ring (in)	8.30	8.25	-0.05	+/- 0.20
Large Ring (in)	15.06	15.00	-0.06	+/- 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 - 10673803	Reference Calibration Date:	27-Aug-15 11:01:05	
Engineer:	SHELDON INGERSOLL	Calibration Date:	08-Sep-15 17:16:45	
Software Version:	WL INSITE R4.6.4 (Build 3)	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	8.24	-0.01	+/- 0.15
PASS/FAIL SUMMARY				
Pad Extension Check:		Passed		
Diameter Check:		Passed		
SPECTRAL DENSITY SHOP CALIBRATION				
Tool Name:	SDLT Pad - 10673790	Reference Calibration Date:	29-Jul-15 13:04:45	
Engineer:	SHELDON INGERSOLL	Calibration Date:	27-Aug-15 10:27:27	
Software Version:	WL INSITE R4.6.4 (Build 3)	Calibration Version:	1	

Logging Source S/N: 5073 GW
Aluminum Block S/N: LIBERAL
Magnesium Block S/N: LIBERAL

Density: 2.598g/cc
Density: 1.684g/cc

Pe: 3.170
Pe: 2.598

DENSITY CALIBRATION SUMMARY

Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0391	1.0284	0.90 - 1.10
Near Dens Gain	1.0284	1.0144	0.90 - 1.10
Near Peak Gain	1.0398	1.0158	0.90 - 1.10
Near Lith Gain	0.9978	0.9801	0.90 - 1.10
Far Bar Gain	1.0100	1.0106	0.90 - 1.10
Far Dens Gain	0.9980	0.9983	0.90 - 1.10
Far Peak Gain	0.9923	0.9910	0.90 - 1.10
Far Lith Gain	0.9566	0.9565	0.90 - 1.10
Near Bar Offset	-0.0647	0.0375	NONE
Near Dens Offset	0.0321	0.1612	NONE
Near Peak Offset	-0.0419	0.1605	NONE
Near Lith Offset	0.2866	0.4399	NONE
Far Bar Offset	0.1240	0.1197	NONE
Far Dens Offset	0.1925	0.1928	NONE
Far Peak Offset	0.1872	0.2001	NONE
Far Lith Offset	0.3712	0.3715	NONE
Near Bar Background	819.39	822.94	700 - 1450
Near Dens Background	268.00	268.14	230 - 480
Near Peak Background	119.29	117.20	100 - 210
Near Lith Background	146.24	145.87	125 - 260
Far Bar Background	551.29	548.40	450 - 900
Far Dens Background	216.38	216.60	175 - 345
Far Peak Background	85.65	85.52	70 - 140
Far Lith Background	89.82	89.20	75 - 145

CALIBRATION BLOCK SUMMARY

Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.681	1.684	0.003	+/- 0.015
Pe	2.591	2.564	-0.027	+/- 0.150
ALUMINUM				
Density (g/cc)	2.590	2.598	0.008	+/- 0.01500
Pe	3.161	3.133	-0.028	+/- 0.150

TOOL SUMMARY

Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	-0.0002	+/- 0.0110	-0.0025	+/- 0.0140
Magnesium Block	-0.0008	+/- 0.0110	-0.0008	+/- 0.0140
Aluminum Block	0.0004	+/- 0.0110	0.0011	+/- 0.0140
Resolution	8.53	6.00 - 11.50	8.93	6.00 - 11.50
Internal Verifier(B+D+P+L)	1354	1200 - 2700	940	800 - 1700

PASS/FAIL SUMMARY

Background Quality Check: Passed
Background Range Check: Passed
Background Resolution 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 - 10673790		Reference Calibration Date:	27-Aug-15 10:27:27
Engineer:	SHELDON INGERSOLL		Calibration Date:	08-Sep-15 17:17:24
Software Version:	WL INSITE R4.6.4 (Build 3)		Calibration Version:	1
Pad Temperature: 89.3 degF				
DENSITY FIELD CALIBRATION SUMMARY				
Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1354.149	1357.597	3.448	14.878
Far (B+D+P+L) cps	939.724	944.557	4.833	16.561
Near Resolution	8.53	8.64	0.110	0.50
Far Resolution	8.93	9.18	0.250	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-10811258						
Gamma Ray Calibrator	232.0	232.5	-----	-0.5	+/- 9.00	api
DSNT-10735145						
Snow-Block Porosity	0.0649	0.0790	-----	-0.0141	+/- 0.0150	decP
SDLT-10673803						
Pad Extension	3.75	3.76	-----	-0.01	+/-0.10	in
Ring Diameter	8.25	8.24	-----	0.01	+/-0.15	in
SDLT Pad-10673790						
Near(B+D+P+L)	1354.149	1357.597	-----	-3.448	+/-14.878	cps
Far(B+D+P+L)	939.724	944.557	-----	-4.833	+/-16.561	cps

Data: K&G 1-29\0002 SP-GTET-DSNT-SDI T-FLEX-WAVE-XRMI-ACRT-BN\007 08-Sep-15 18:58 Up @5566.0f										Date: 08-Sep-15 21:59:28	
HALLIBURTON											
INPUTS, DELAYS AND FILTERS TABLE											

Mnemonic	Input Description	Delay (ft)	Filter Type	Filter Length (ft)
Depth Panel				
TENS	Tension	0.00	NO	
Rwa / CrossPlot				
TPUL	Tension Pull	120.76	NO	
BS	Bit Size	120.76	NO	
HDIA	Measured Hole Diameter	0.00	NO	

SP Sub				
PLTC	Plot Control Mask	117.07	NO	
SP	Spontaneous Potential	117.07	BLK	1.250
SPR	Raw Spontaneous Potential	117.07	NO	
SPO	Spontaneous Potential Offset	117.07	NO	

GTET				
TPUL	Tension Pull	109.04	NO	
GR	Natural Gamma Ray API	109.04	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	109.04	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	109.04	W	1.416 , 0.750
HDIA	Measured Hole Diameter	0.00	NO	
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	
DSNT				
TPUL	Tension Pull	98.80	NO	
RNDS	Near Detector Telemetry Counts	98.90	BLK	1.417
RFDS	Far Detector Telemetry Counts	99.65	TRI	0.583
DNTT	DSN Tool Temperature	98.90	NO	
DSNS	DSN Tool Status	98.80	NO	
ERND	Near Detector Telemetry Counts EVR	98.90	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	99.65	BLK	0.000
ENTM	DSN Tool Temperature EVR	98.90	NO	
HDIA	Measured Hole Diameter	0.00	NO	
SDLT				
TPUL	Tension Pull	88.90	NO	
PCAL	Pad Caliper	88.90	TRI	0.250
ACAL	Arm Caliper	88.90	TRI	0.250
WSTT-I Receivers				
TPUL	Tension Pull	57.85	NO	
DPSX	Dipole Source X StructureI	54.60	NO	
DPSY	Dipole Source Y StructureI	54.60	NO	
DPSM	Monopole Source Structure	54.60	NO	
WVST	Wavesonic Compressed Data	57.85	NO	
TPUL	Tension Pull	57.85	NO	
XMS1	Wave Sonic Status Word 1	54.60	NO	
XMS2	Wave Sonic Status Word 2	54.60	NO	
XMS1	Wave Sonic XMITStatus Word 1	54.60	NO	
XMS1	Wave Sonic XMITStatus Word 2	54.60	NO	
F1HA	Dipole 1 HV After	54.60	NO	
F1HB	Dipole 1 HV Before	54.60	NO	
F2HA	Dipole 2 HV After	54.60	NO	
F2HB	Dipole 2 HV Before	54.60	NO	
F3HA	Monopole HV After	54.60	NO	
F3HB	Monopole HV Before	54.60	NO	
INVT	Input Voltage	54.60	NO	
5VOL	5 Volts	54.60	NO	
MI5A	Minus 5 Volts Analog	54.60	NO	
ITMP	Instrument Temperature	54.60	NO	
PL5A	Plus 5 Volts Analog	54.60	NO	
5VD	Plus 5 Volts Digital	54.60	NO	
TCUR	Tool Current	54.60	NO	
SUPV	Supply Voltage	54.60	NO	
PRVT	Preregulated voltage	54.60	NO	
PRVT	Pre-regulated voltage Xmter	54.60	NO	
TEMP	Temperature	54.60	NO	
ACQN	Acquisition Number	54.60	NO	
XDP	Delay Reference	57.85	NO	
MITM	MIT Mode	57.85	NO	
VERS	Version	54.60	NO	
D1CT	Dipole 1 Compressed Word Count	57.85	NO	

D2CT	Dipole 2 Compressed Word Count	57.85	NO
MCNT	Monopole Compressed Word Count	57.85	NO
SEQN	Sequence Number	54.60	NO
FREV	Firmware Revision	54.60	NO
MSMP	Monopole Sample Rate	54.60	NO
MSMP	Dipole Sample Rate	54.60	NO
MFWF	Monopole Firing Waveform	54.60	NO
MFRQ	Monopole Frequency	54.60	NO
MDLY	Monopole Delay	54.60	NO
DXWF	Dipole X Firing Waveform	54.60	NO
XFRQ	Dipole X Frequency	54.60	NO
XDLY	Dipole X Delay	54.60	NO
DYWF	Dipole Y Firing Waveform	54.60	NO
YFRQ	Dipole Y Frequency	54.60	NO
YDLY	Dipole Y Delay	54.60	NO
DPSX	Dipole Source X Structurel	54.60	NO
DPSY	Dipole Source Y Structurel	54.60	NO
DPSM	Monopole Source Structure	54.60	NO
WVST	Wavesonic Compressed Data	57.85	NO
AUTM	Auto Mode	54.60	NO
SONM	tool mode for sonic - 0 for normal or 3 for calibration	54.60	NO
MSL	Monopole Lower Travel Time	57.85	NO
MSH	Monopole Upper Travel Time	57.85	NO
MLFC	Monopole-1 Lower Filter Bandpass Frequency Cut-off	54.60	NO
MUFC	Monopole-1 Upper Filter Bandpass Frequency Cut-off	54.60	NO
DLTT	Dipole Lower Travel Time	54.60	NO
DUTT	Dipole Upper Travel Time	54.60	NO
DLFC	Dipole Lower Filter Bandpass Frequency Cut-off	54.60	NO
DUFC	Dipole Upper Filter Bandpass Frequency Cut-off	54.60	NO
MUTE	WaveSonic Mute/Enable Channels and Sides map	54.60	NO
MUTS	Mute/Enable Sides	54.60	NO
WSRB	Relative Bearing	57.85	NO
WSAZ	WSX Azimuth Pad 1	57.85	NO
TPUL	Tension Pull	57.85	NO
WMP	Summed array of Monopole for SIDES - A,B,C,D	57.85	NO
WXX	Dipole X for SIDES - A-C	57.85	NO
WYY	Dipole Y for SIDES - B-D	57.85	NO
WXY	Dipole X for SIDES - B-D	57.85	NO
WYX	Dipole Y for SIDES - A-C	57.85	NO
TPUL	Tension Pull	57.85	NO
WMA	Monopole Waveform Side A - Channel 1 to Channel 8 Receivers	57.85	NO
WMB	Monopole Waveform Side B - Channel 1 to Channel 8 Receivers	57.85	NO
WMC	Monopole Waveform Side C - Channel 1 to Channel 8 Receivers	57.85	NO
WMD	Monopole Waveform Side D - Channel 1 to Channel 8 Receivers	57.85	NO
WXA	Dipole X Waveform Side A - Channel 1 to Channel 8 Receivers	57.85	NO
WXB	Dipole X Waveform Side B - Channel 1 to Channel 8 Receivers	57.85	NO
WXC	Dipole X Waveform Side C - Channel 1 to Channel 8 Receivers	57.85	NO
WXD	Dipole X Waveform Side D - Channel 1 to Channel 8 Receivers	57.85	NO
WYA	Dipole Y Waveform Side A - Channel 1 to Channel 8 Receivers	57.85	NO
WYB	Dipole Y Waveform Side B - Channel 1 to Channel 8 Receivers	57.85	NO
WYC	Dipole Y Waveform Side C - Channel 1 to Channel 8 Receivers	57.85	NO
WYD	Dipole Y Waveform Side D - Channel 1 to Channel 8 Receivers	57.85	NO
GAB1	Gain Side A Receiver 1	54.60	NO

GAR1	Gain Side A Receiver 1	54.60	NO
GAR2	Gain Side A Receiver 2	54.60	NO
GAR3	Gain Side A Receiver 3	54.60	NO
GAR4	Gain Side A Receiver 4	54.60	NO
GAR5	Gain Side A Receiver 5	54.60	NO
GAR6	Gain Side A Receiver 6	54.60	NO
GAR7	Gain Side A Receiver 7	54.60	NO
GAR8	Gain Side A Receiver 8	54.60	NO
GBR1	Gain Side B Receiver 1	54.60	NO
GBR2	Gain Side B Receiver 2	54.60	NO
GBR3	Gain Side B Receiver 3	54.60	NO
GBR4	Gain Side B Receiver 4	54.60	NO
GBR5	Gain Side B Receiver 5	54.60	NO
GBR6	Gain Side B Receiver 6	54.60	NO
GBR7	Gain Side B Receiver 7	54.60	NO
GBR8	Gain Side B Receiver 8	54.60	NO
GCR1	Gain Side C Receiver 1	54.60	NO
GCR2	Gain Side C Receiver 2	54.60	NO
GCR3	Gain Side C Receiver 3	54.60	NO
GCR4	Gain Side C Receiver 4	54.60	NO
GCR5	Gain Side C Receiver 5	54.60	NO
GCR6	Gain Side C Receiver 6	54.60	NO
GCR7	Gain Side C Receiver 7	54.60	NO
GCR8	Gain Side C Receiver 8	54.60	NO
GDR1	Gain Side D Receiver 1	54.60	NO
GDR2	Gain Side D Receiver 2	54.60	NO
GDR3	Gain Side D Receiver 3	54.60	NO
GDR4	Gain Side D Receiver 4	54.60	NO
GDR5	Gain Side D Receiver 5	54.60	NO
GDR6	Gain Side D Receiver 6	54.60	NO
GDR7	Gain Side D Receiver 7	54.60	NO
GDR8	Gain Side D Receiver 8	54.60	NO
XRMI-I Mandrel			
TPUL	Tension Pull	22.35	NO
PAD1	XRMI Pad 1 values	22.12	NO
PAD2	XRMI Pad 2 values	22.12	NO
PAD3	XRMI Pad 3 values	22.12	NO
PAD4	XRMI Pad 4 values	22.12	NO
PAD5	XRMI Pad 5 values	22.12	NO
PAD6	XRMI Pad 6 values	22.12	NO
OD1	EMI Odd Button Values Pad 1	22.12	NO
OD2	EMI Odd Button Values Pad 2	22.35	NO
OD3	EMI Odd Button Values Pad 3	22.12	NO
OD4	EMI Odd Button Values Pad 4	22.35	NO
OD5	EMI Odd Button Values Pad 5	22.12	NO
OD6	EMI Odd Button Values Pad 6	22.35	NO
EV1	EMI Even Button Values Pad 1	22.14	NO
EV2	EMI Even Button Values Pad 2	22.32	NO
EV3	EMI Even Button Values Pad 3	22.14	NO
EV4	EMI Even Button Values Pad 4	22.32	NO
EV5	EMI Even Button Values Pad 5	22.14	NO
EV6	EMI Even Button Values Pad 6	22.32	NO
ITMP	Instrument Temperature	19.58	NO
EMIM	Tool Mode	19.58	NO
HAZI	Hole Azimuth	21.87	NO
HAZI	Hole Azimuth - Down Delay	22.37	NO
ZACC	Accelerometer Z	22.12	NO
RB	Relative Bearing	21.87	NO

RBD	Relative Bearing Down	22.37	NO	
TPUL	Tension Pull	22.35	NO	
FIR1	Current Button R - Pad 1	22.12	NO	
FIR2	Current Button R - Pad 2	22.35	NO	
FIR3	Current Button R - Pad 3	22.12	NO	
FIR4	Current Button R - Pad 4	22.35	NO	
FIR5	Current Button R - Pad 5	22.12	NO	
FIR6	Current Button R - Pad 6	22.35	NO	
FIX1	Current Button X - Pad 1	22.12	NO	
FIX2	Current Button X - Pad 2	22.35	NO	
FIX3	Current Button X - Pad 3	22.12	NO	
FIX4	Current Button X - Pad 4	22.35	NO	
FIX5	Current Button X - Pad 5	22.12	NO	
FIX6	Current Button X - Pad 6	22.35	NO	
SIR1	Current Slow Button R - Pad 1	22.12	BLK	3.000
SIR2	Current Slow Button R - Pad 2	22.35	BLK	3.000
SIR3	Current Slow Button R - Pad 3	22.12	BLK	3.000
SIR4	Current Slow Button R - Pad 4	22.35	BLK	3.000
SIR5	Current Slow Button R - Pad 5	22.12	BLK	3.000
SIR6	Current Slow Button R - Pad 6	22.35	BLK	3.000
SIX1	Current Slow Button X - Pad 1	22.12	BLK	3.000
SIX2	Current Slow Button X - Pad 2	22.35	BLK	3.000
SIX3	Current Slow Button X - Pad 3	22.12	BLK	3.000
SIX4	Current Slow Button X - Pad 4	22.35	BLK	3.000
SIX5	Current Slow Button X - Pad 5	22.12	BLK	3.000
SIX6	Current Slow Button X - Pad 6	22.35	BLK	3.000
EMMR	Phasor Voltage - Real Part	22.12	NO	
EMMX	Phasor Voltage - Imaginary Part	22.12	NO	
PADV	Pad Voltage	19.58	BLK	0.250
ITMP	Instrument Temperature	19.58	BLK	0.000
CON1	Conductivity Pad 1	22.12	BLK	3.000
CON2	Conductivity Pad 2	22.35	BLK	3.000
CON3	Conductivity Pad 3	22.12	BLK	3.000
CON4	Conductivity Pad 4	22.35	BLK	3.000
CON5	Conductivity Pad 5	22.12	BLK	3.000
CON6	Conductivity Pad 6	22.35	BLK	3.000
UIR2	Current Button R No Delay - Pad 2	22.12	NO	
UIR4	Current Button R No Delay - Pad 4	22.12	NO	
UIR6	Current Button R No Delay - Pad 6	22.12	NO	
UIX2	Current Button X No Delay - Pad 2	22.12	NO	
UIX4	Current Button X No Delay - Pad 4	22.12	NO	
UIX6	Current Button X No Delay - Pad 6	22.12	NO	
HDIA	Measured Hole Diameter	0.00	NO	
TPUL	Tension Pull	22.35	NO	
ARM1	Caliper 1 measurement	22.12	BLK	0.000
ARM2	Caliper 2 measurement	22.12	BLK	0.000
ARM3	Caliper 3 measurement	22.12	BLK	0.000
ARM4	Caliper 4 measurement	22.12	BLK	0.000
ARM5	Caliper 5 measurement	22.12	BLK	0.000
ARM6	Caliper 6 measurement	22.12	BLK	0.000
MOTV	Motor Voltage Monitor 1	22.12	BLK	0.000
PRES	Caliper percentage of total compression of the spring	19.58	BLK	0.000
HAZI	Hole Azimuth	22.12	NO	
RB	Relative Bearing	22.12	NO	
AZI1	PAD1 Azimuth	22.12	NO	
DEVI	Inclination	22.12	NO	
ACRt Sonde				
TPUL	Tension Pull	2.73	NO	

F1R1	ACRT 12KHz - 80in R value	8.98	BLK	0.000
F1X1	ACRT 12KHz - 80in X value	8.98	BLK	0.000
F1R2	ACRT 12KHz - 50in R value	6.48	BLK	0.000
F1X2	ACRT 12KHz - 50in X value	6.48	BLK	0.000
F1R3	ACRT 12KHz - 29in R value	4.98	BLK	0.000
F1X3	ACRT 12KHz - 29in X value	4.98	BLK	0.000
F1R4	ACRT 12KHz - 17in R value	3.98	BLK	0.000
F1X4	ACRT 12KHz - 17in X value	3.98	BLK	0.000
F1R5	ACRT 12KHz - 10in R value	3.48	BLK	0.000
F1X5	ACRT 12KHz - 10in X value	3.48	BLK	0.000
F1R6	ACRT 12KHz - 6in R value	3.23	BLK	0.000
F1X6	ACRT 12KHz - 6in X value	3.23	BLK	0.000
F2R1	ACRT 36KHz - 80in R value	8.98	BLK	0.000
F2X1	ACRT 36KHz - 80in X value	8.98	BLK	0.000
F2R2	ACRT 36KHz - 50in R value	6.48	BLK	0.000
F2X2	ACRT 36KHz - 50in X value	6.48	BLK	0.000
F2R3	ACRT 36KHz - 29in R value	4.98	BLK	0.000
F2X3	ACRT 36KHz - 29in X value	4.98	BLK	0.000
F2R4	ACRT 36KHz - 17in R value	3.98	BLK	0.000
F2X4	ACRT 36KHz - 17in X value	3.98	BLK	0.000
F2R5	ACRT 36KHz - 10in R value	3.48	BLK	0.000
F2X5	ACRT 36KHz - 10in X value	3.48	BLK	0.000
F2R6	ACRT 36KHz - 6in R value	3.23	BLK	0.000
F2X6	ACRT 36KHz - 6in X value	3.23	BLK	0.000
F3R1	ACRT 72KHz - 80in R value	8.98	BLK	0.000
F3X1	ACRT 72KHz - 80in X value	8.98	BLK	0.000
F3R2	ACRT 72KHz - 50in R value	6.48	BLK	0.000
F3X2	ACRT 72KHz - 50in X value	6.48	BLK	0.000
F3R3	ACRT 72KHz - 29in R value	4.98	BLK	0.000
F3X3	ACRT 72KHz - 29in X value	4.98	BLK	0.000
F3R4	ACRT 72KHz - 17in R value	3.98	BLK	0.000
F3X4	ACRT 72KHz - 17in X value	3.98	BLK	0.000
F3R5	ACRT 72KHz - 10in R value	3.48	BLK	0.000
F3X5	ACRT 72KHz - 10in X value	3.48	BLK	0.000
F3R6	ACRT 72KHz - 6in R value	3.23	BLK	0.000
F3X6	ACRT 72KHz - 6in X value	3.23	BLK	0.000
RMUD	Mud Resistivity	12.52	BLK	0.000
F1RT	Transmitter Reference 12 KHz Real Signal	2.73	BLK	0.000
F1XT	Transmitter Reference 12 KHz Imaginary Signal	2.73	BLK	0.000
F2RT	Transmitter Reference 36 KHz Real Signal	2.73	BLK	0.000
F2XT	Transmitter Reference 36 KHz Imaginary Signal	2.73	BLK	0.000
F3RT	Transmitter Reference 72 KHz Real Signal	2.73	BLK	0.000
F3XT	Transmitter Reference 72 KHz Imaginary Signal	2.73	BLK	0.000
TFPU	Upper Feedpipe Temperature Calculated	2.73	BLK	0.000
TFPL	Lower Feedpipe Temperature Calculated	2.73	BLK	0.000
ITMP	Instrument Temperature	2.73	BLK	0.000
TCVA	Temperature Correction Values Loop Off	2.73	NO	
TIDV	Instrument Temperature Derivative	2.73	NO	
TUDV	Upper Temperature Derivative	2.73	NO	
TLDV	Lower Temperature Derivative	2.73	NO	
TRBD	Receiver Board Temperature	2.73	NO	
HDIA	Measured Hole Diameter	0.00	NO	
SDLT Pad				
TPUL	Tension Pull	88.89	NO	
NAB	Near Above	88.72	BLK	0.920
NHI	Near Cesium High	88.72	BLK	0.920
NLO	Near Cesium Low	88.72	BLK	0.920
NVA	Near Yellow	88.72	BLK	0.920

NVA	Near Valley	88.72	BLK	0.920
NBA	Near Barite	88.72	BLK	0.920
NDE	Near Density	88.72	BLK	0.920
NPk	Near Peak	88.72	BLK	0.920
NLI	Near Lithology	88.72	BLK	0.920
NBAU	Near Barite Unfiltered	88.72	BLK	0.250
NLIU	Near Lithology Unfiltered	88.72	BLK	0.250
FAB	Far Above	89.07	BLK	0.250
FHI	Far Cesium High	89.07	BLK	0.250
FLO	Far Cesium Low	89.07	BLK	0.250
FVA	Far Valley	89.07	BLK	0.250
FBA	Far Barite	89.07	BLK	0.250
FDE	Far Density	89.07	BLK	0.250
FPK	Far Peak	89.07	BLK	0.250
FLI	Far Lithology	89.07	BLK	0.250
PTMP	Pad Temperature	88.90	BLK	0.920
NHV	Near Detector High Voltage	88.30	NO	
FHV	Far Detector High Voltage	88.30	NO	
ITMP	Instrument Temperature	88.30	NO	
DDHV	Detector High Voltage	88.30	NO	
HDIA	Measured Hole Diameter	0.00	NO	
Microlog Pad				
TPUL	Tension Pull	89.09	NO	
MINV	Microlog Lateral	89.09	BLK	0.750
MNOR	Microlog Normal	89.09	BLK	0.750
Data: K&G_1-29\0002 SP-GTET-DSNT-SDLT-FLEX-WAVE-XRMI-ACRT-BN\IDLE			Date: 08-Sep-15 21:58:14	
COMPANY	RAYDON EXPLORATION INC.			
WELL	K&G 1-29			
FIELD	WILDCAT			
COUNTY	HASKELL	STATE	KANSAS	
HALLIBURTON		DUAL SPACED NEUTRON SPECTRAL DENSITY LOG		