

HALLIBURTON

ARRAY COMPENSATED
TRUE RESISTIVITY
SPECTRAL DENSITY
DUAL SPACED NEUTRON

COMPANY				BAYS WATER EXPLORATION AND PRODUCTION			
WELL				BOOTH 30-23			
FIELD				WATTENBERG			
COUNTY				WELD			
STATE				CO			
COMPANY				BAYS WATER EXPLORATION AND PRODUCTION			
WELL				BOOTH 30-23			
FIELD				WATTENBERG			
COUNTY				WELD			
STATE				CO			
API No.				05123359270000			
Location				SURFACE LOCATION: 416' FNL & 2345' FWL NENW BOTTOM LOCATION: 112' FNL & 87' FWL NWNW LATITUDE: 40.565189° LONGITUDE: -104.631288°			
Other Services:				RWCH			
Sect. 23				Twp. 7N Rge. 65W			
Permanent Datum				GL			
Log measured from				KB			
Drilling measured from				KB			
Date				10-Nov-12			
Run No.				ONE			
Depth - Driller				7910.00 ft			
Depth - Logger				7910.0 ft			
Bottom - Logged Interval				7908 ft			
Top - Logged Interval				CASING			
Casing - Driller				8.625 in @ 670.0 ft			
Casing - Logger				668.0 ft			
Bit Size				7.875 in			
Type Fluid in Hole				WATER BASED MUD			
Density				9.5 ppq			
Viscosity				44.00 s/qt			
PH				8.00 pH			
Fluid Loss				11.0 cpm			
Source of Sample				MUD CELL			
Rm @ Meas. Temperature				1.370 ohmm @ 57.70 degF			
Rmf @ Meas. Temperature				0.92 ohmm @ 75.00 degF			
Rmc @ Meas. Temperature				0.972 ohmm @ 75.00 degF			
Source Rmf				CHART			
Rm @ BHT				0.45 ohmm @ 190.0 degF			
Time Since Circulation				8.5 hr			
Time on Bottom				10-Nov-12 21:19			
Max. Rec. Temperature				190.0 degF @ 7910.0 ft			
Equipment				11454566			
Location				BRIGHTON			
Recorded By				C.CRADDOCK			
Witnessed By				D. PATTON			

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Service Ticket No.: 9958959										API Serial No.: 05123359270000										PGM Version: WL INSITE R3.6.2 (Build 7)																			
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					FREE					N/A				
Rmc @ Meas. Temp.					@					@										11302817																			
Source Rmf					Rmc															11294353																			
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.					11812883					Serial No.										Serial No.					11045470					Serial No.					11301132				
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					Cs-137					Source Type					Am241Be									
Length					8"					LSA [Y/N]										Serial No.					DSN434					Serial No.					5471GW				
Distance to Source					10'					FWDA [Y/N]										Strength					1.78 Ci					Strength					15 Ci				
LOGGING DATA																																							
GENERAL					GAMMA					ACOUSTIC					DENSITY					NEUTRON																			

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	7910	7750	REC	0	200				20	0	2.68	20	0	SAND		
ONE	7750	7500	REC	0	200				20	0	2.71	20	0	LIME		
ONE	7500	CSG	REC	0	200				20	0	2.68	20	0	SAND		
DIRECTIONAL INFORMATION																
Maximum Deviation									@	KOP						@
Remarks: RWCH-GTET-DSNT-SDLT-ACRT RUN IN COMBINATION.																
ANNULAR HOLE VOLUME CALCULATED FOR 4.5-INCH PRODUCTION CASING.																
TENSION PULLS, WASHOUTS AND BOREHOLE RUGOSITY AFFECT LOG RESPONSE.																
TOOL STRING RUN IN SLICK CONFIGURATION AT CLIENT'S REQUEST.																
YOUR CREW: M. BURNETT, A. KAMPA, I. KHALID																
RIG: ENSIGN 7																
THANK YOU FOR USING HALLIBURTON LOGGING SERVICES - BRIGHTON, CO - (303) 825-4346																
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.																
HALLIBURTON																

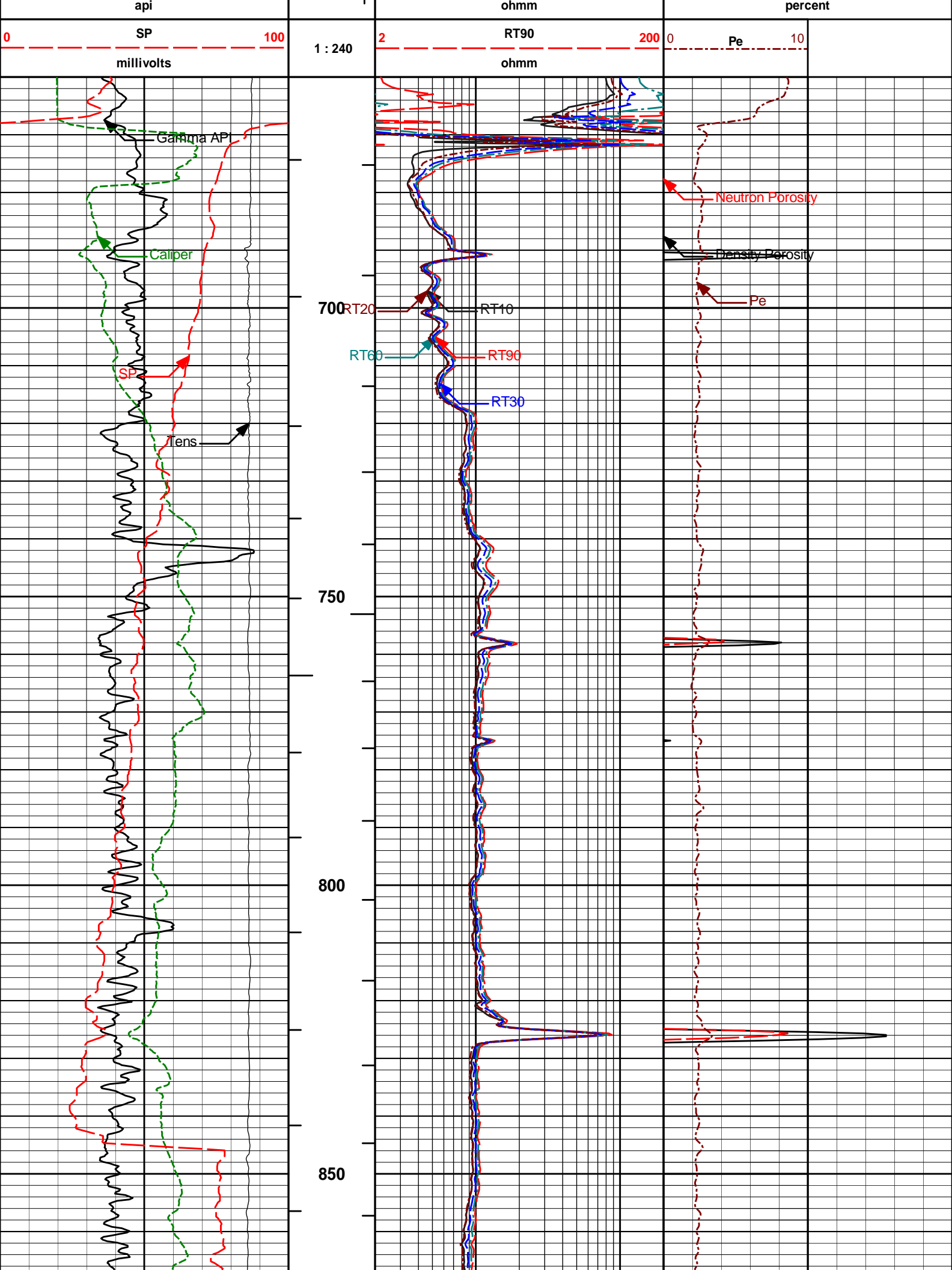
HALLIBURTON

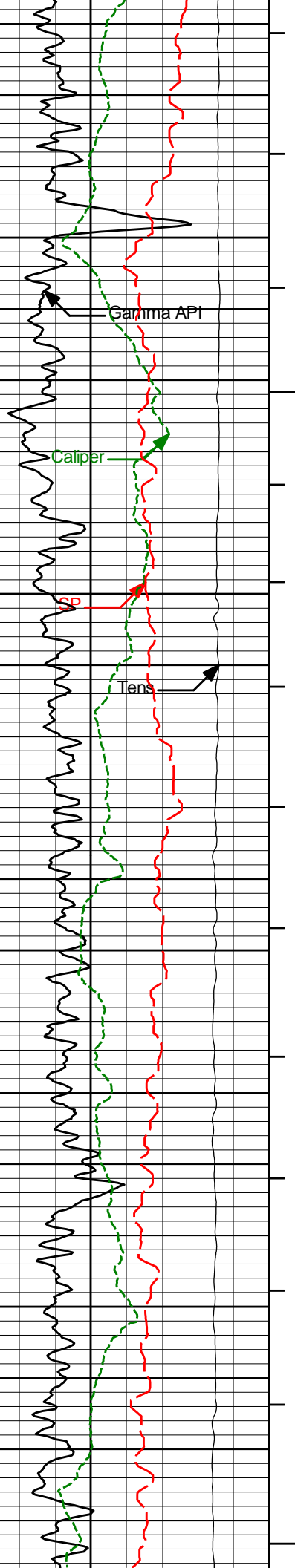
PARAMETERS REPORT

Depth ((ft))	Tool Name	Mnemonic	Description	Value	Units
TOP					
	DSNT	NLIT	Neutron Lithology	Sandstone	
	SDLT Pad	DMA	Formation Density Matrix	2.680	g/cc
7500.00					
	DSNT	NLIT	Neutron Lithology	Limestone	
	SDLT Pad	DMA	Formation Density Matrix	2.710	g/cc
7750.00					
	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	9.500	ppg
	SHARED	WAGT	Weighting Agent	Natural	
	SHARED	BSAL	Borehole salinity	700.00	ppm
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%
	SHARED	RMUD	Mud Resistivity	1.370	ohmm
	SHARED	TRM	Temperature of Mud	57.7	degF
	SHARED	CSD	Logging Interval is Cased?	No	
	SHARED	ICOD	AHV Casing OD	4.500	in
	SHARED	ST	Surface Temperature	25.0	degF
	SHARED	TD	Total Well Depth	7910.00	ft
	SHARED	BHT	Bottom Hole Temperature	190.0	degF
	SHARED	SVTM	Navigation and Survey Master Tool	NONE	
	SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET	

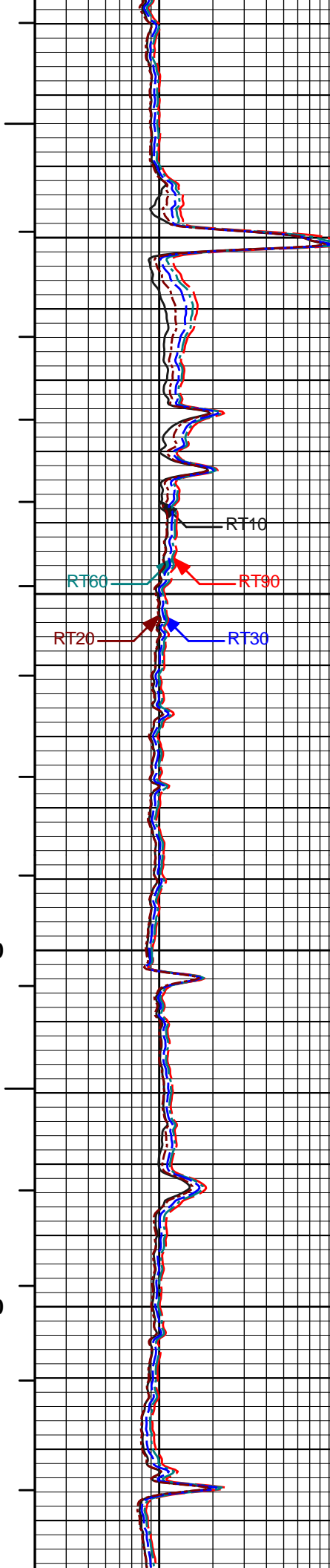
SHARED	TEMM	Temperature Master Tool	NONE	
SHARED	BHSM	Borehole Size Master Tool	NONE	
GTET	GROK	Process Gamma Ray?	Yes	
GTET	GRSO	Gamma Tool Standoff	0.000	in
GTET	GEOK	Process Gamma Ray EVR?	No	
GTET	TPOS	Tool Position for Gamma Ray Tools.	Eccentered	
DSNT	DNOK	Process DSN?	Yes	
DSNT	DEOK	Process DSN EVR?	No	
DSNT	NLIT	Neutron Lithology	Sandstone	
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	2.680	g/cc
SDLT Pad	DFL	Formation Density Fluid	1.000	g/cc
ACRt Sonde	RTOK	Process ACRt?	Yes	
ACRt Sonde	MNSO	Minimum Tool Standoff	0.25	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				
Data: BOOTH_30-23\0001 BAYSWATER\003.01 10-Nov-12 21:39 Up			Date: 10-Nov-12 21:41:03	

HALLIBURTON		Plot Time: 10-Nov-12 23:11:11 Plot Range: 660 ft to 7922.17 ft Data: BOOTH_30-23\Well Based\MAIN* Plot File: \\COMP\TD-NIO				
MAIN PASS 5" = 100'						
<div>10K</div> <div>Tens</div> <div>0</div>		<div></div>	2RT10200			
			ohmm			
<div>pounds</div>		<div></div>	2RT20200			
			ohmm			
<div>6</div> <div>Caliper</div> <div>16</div>		<div>— AHVT</div>	2RT30200			20Neutron Porosity0
<div>inches</div>			ohmm			percent
<div>0</div> <div>Gamma API</div> <div>200</div>		<div>BHVT —</div>	2RT60200			20Density Porosity0

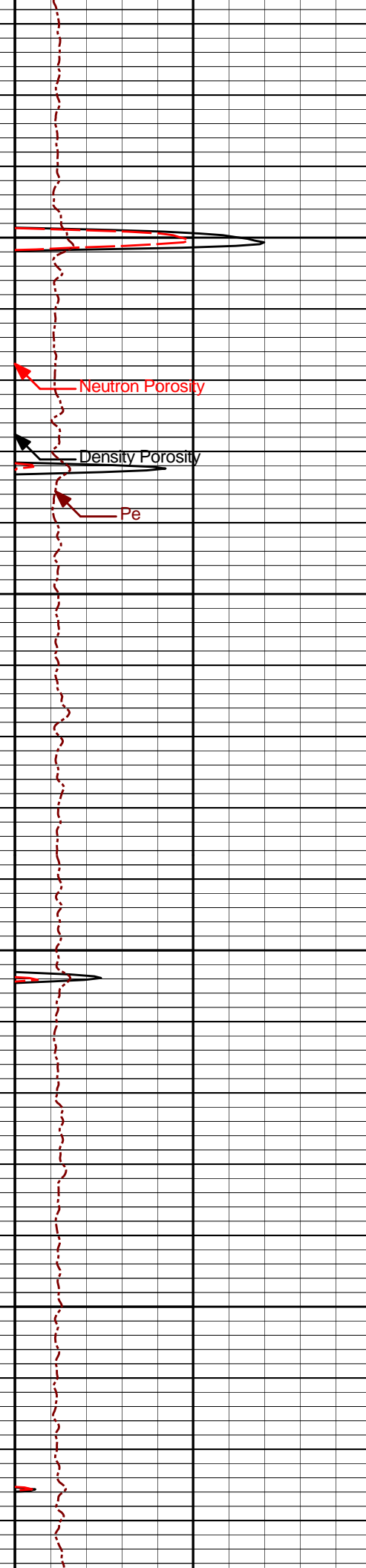




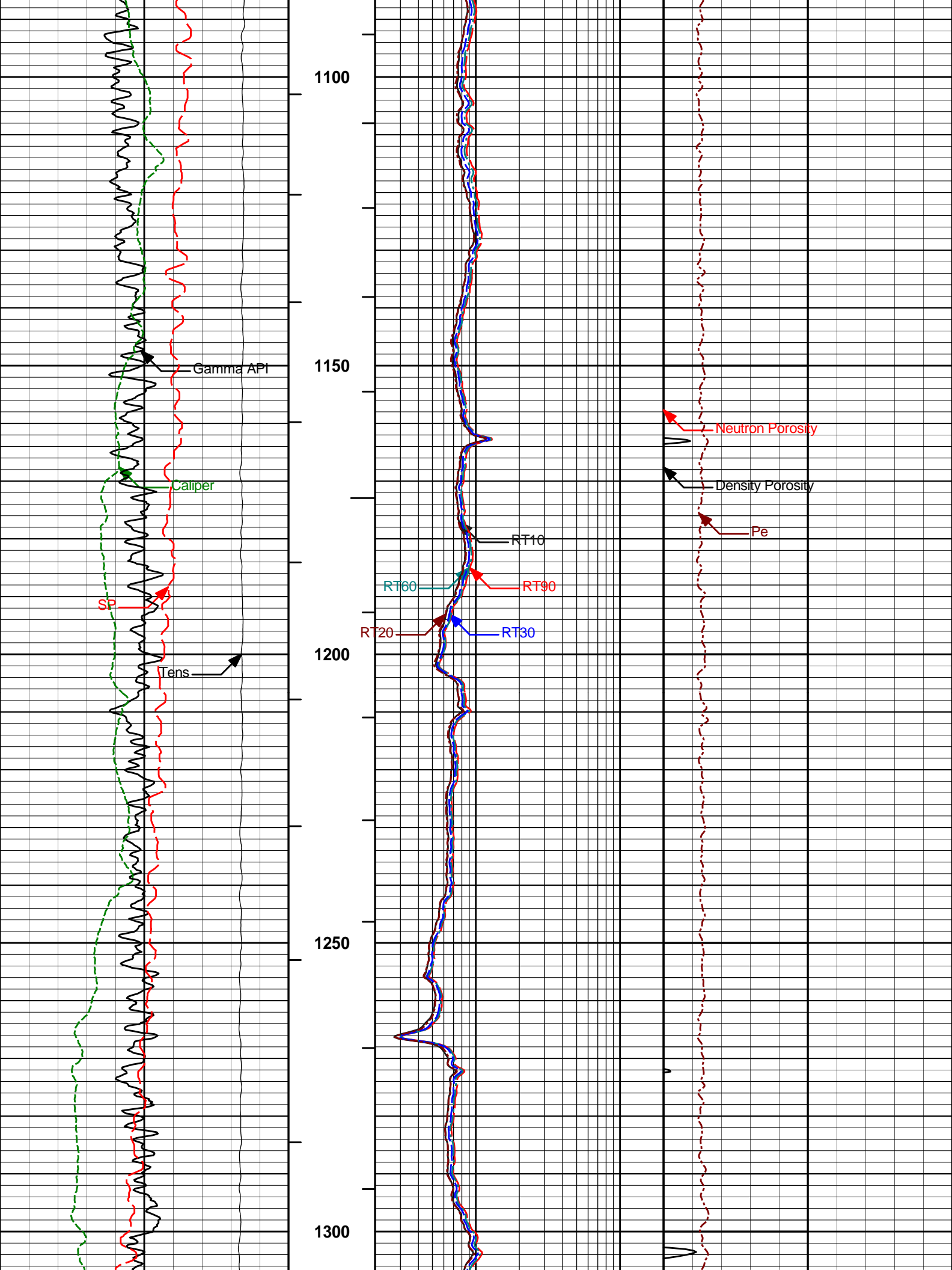
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950
1000
1050

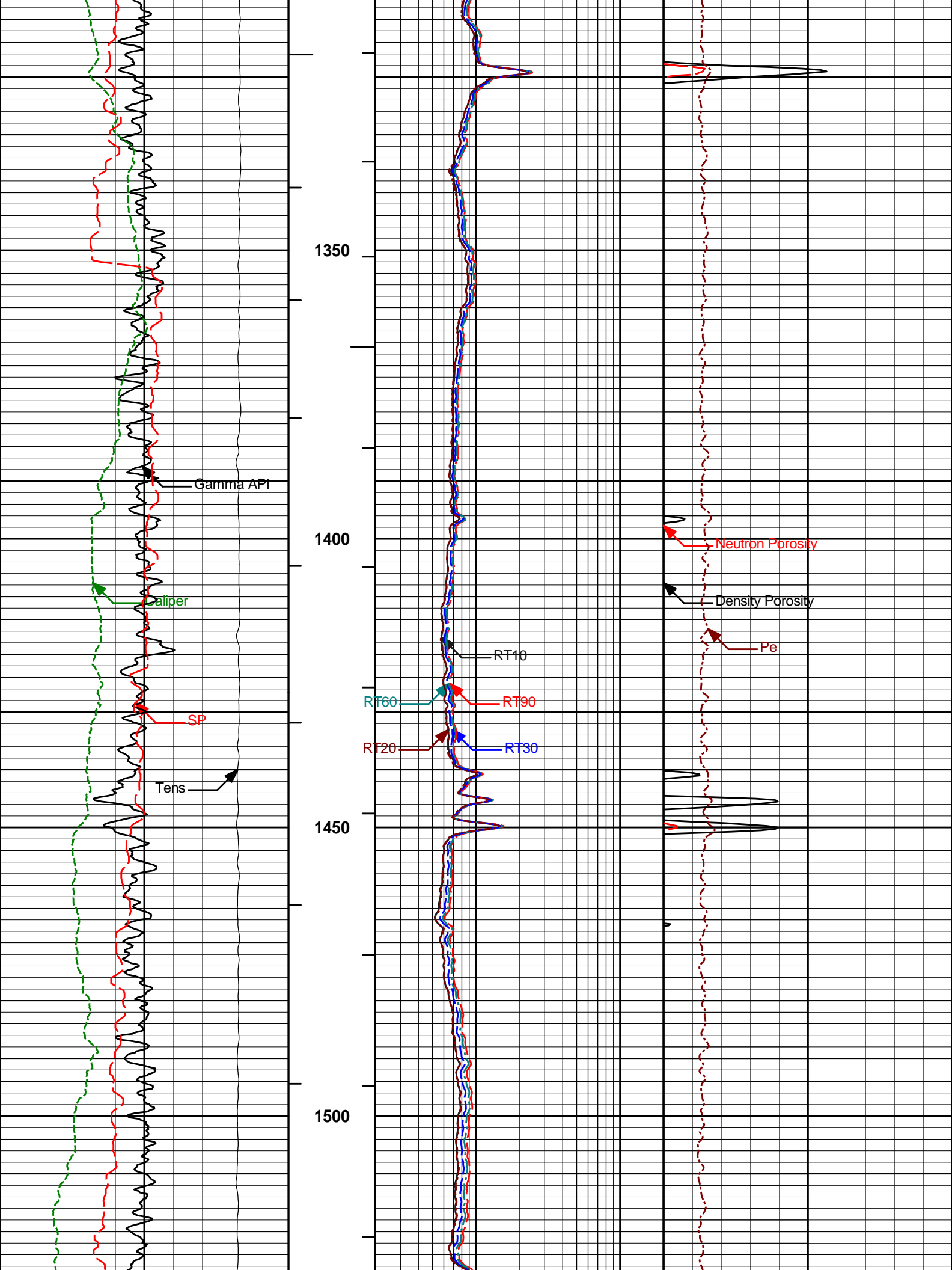


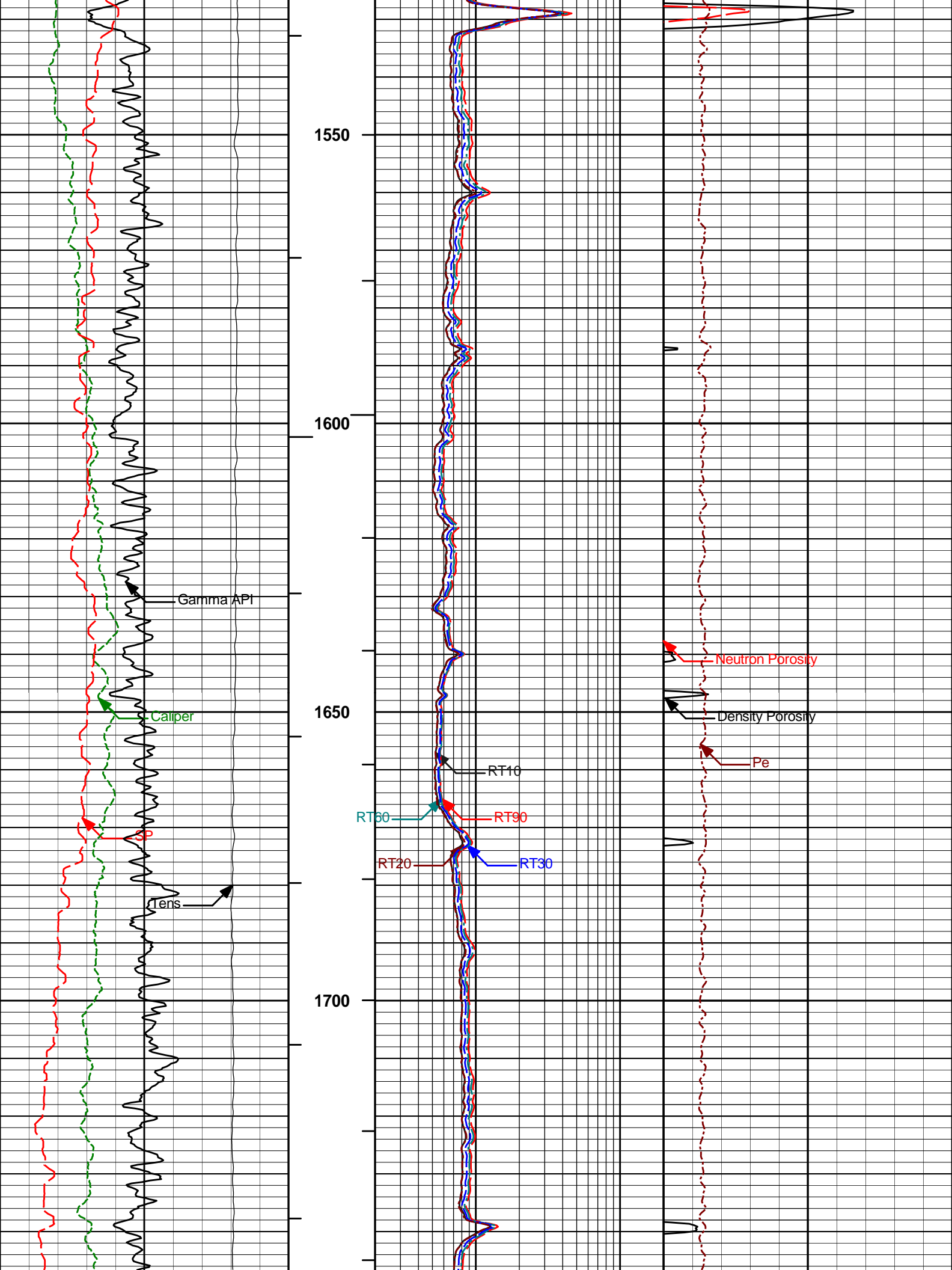
RT10
RT20
RT30
RT60
RT90

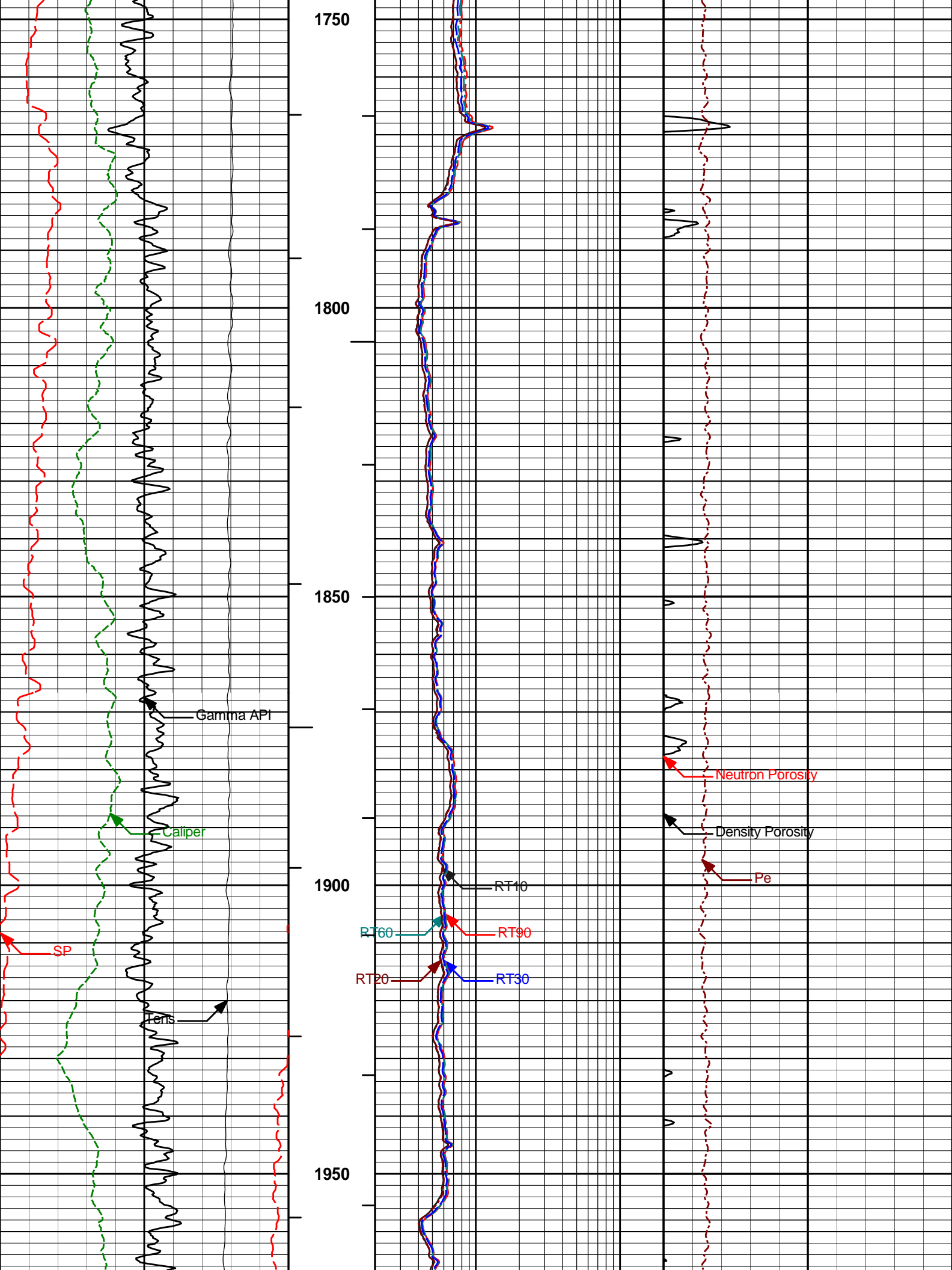


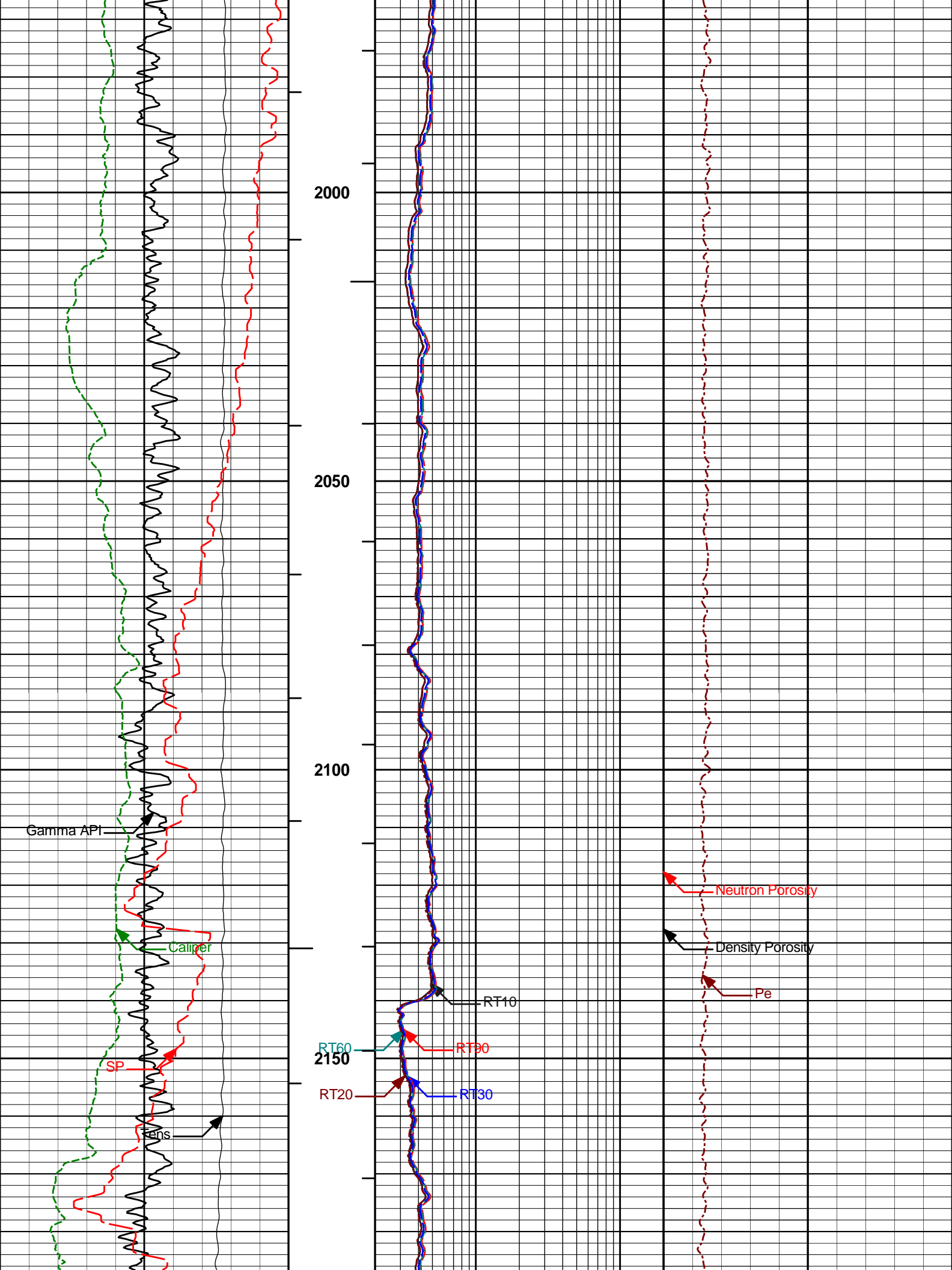
Neutron Porosity
Density Porosity
Pe

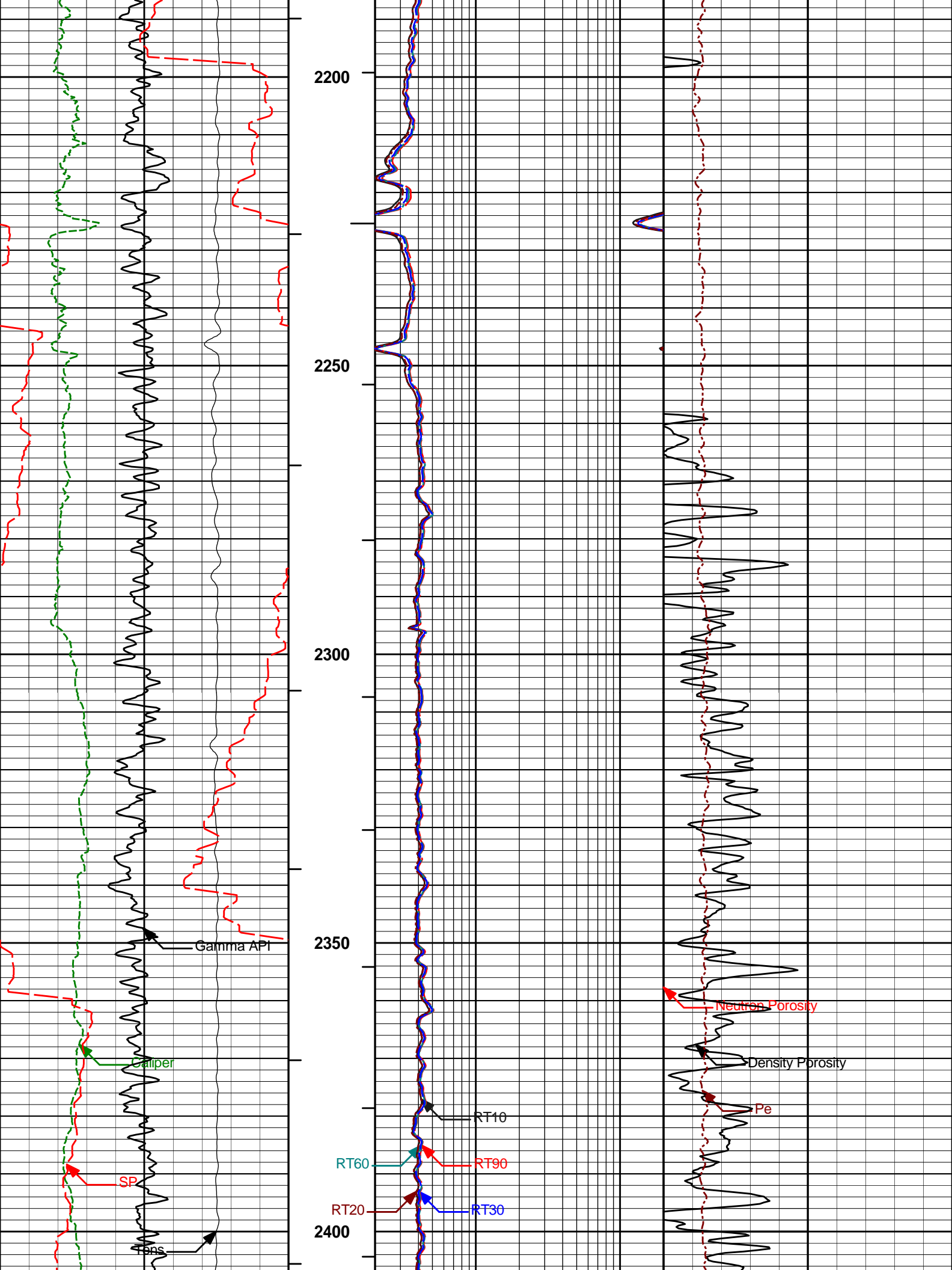


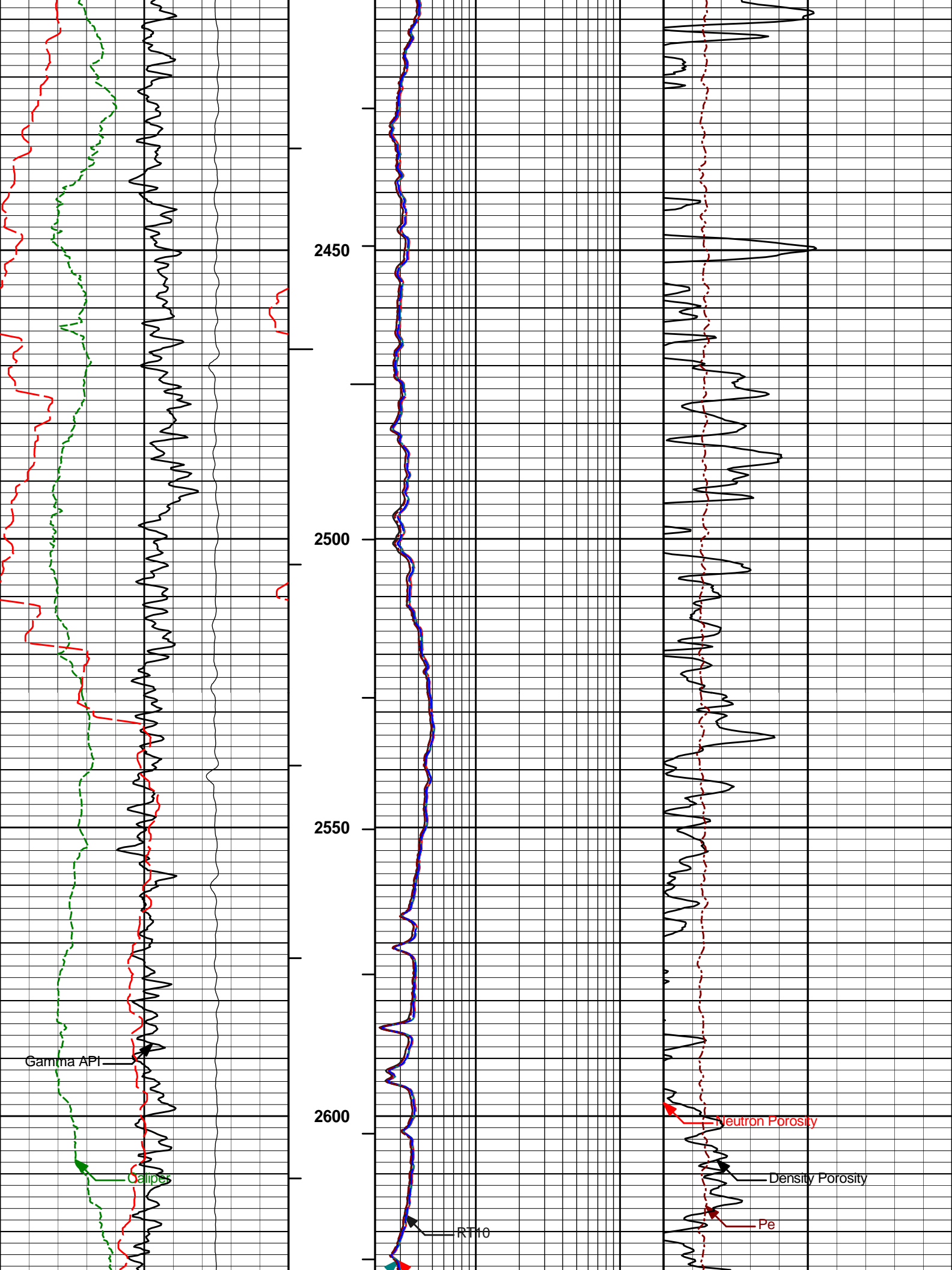


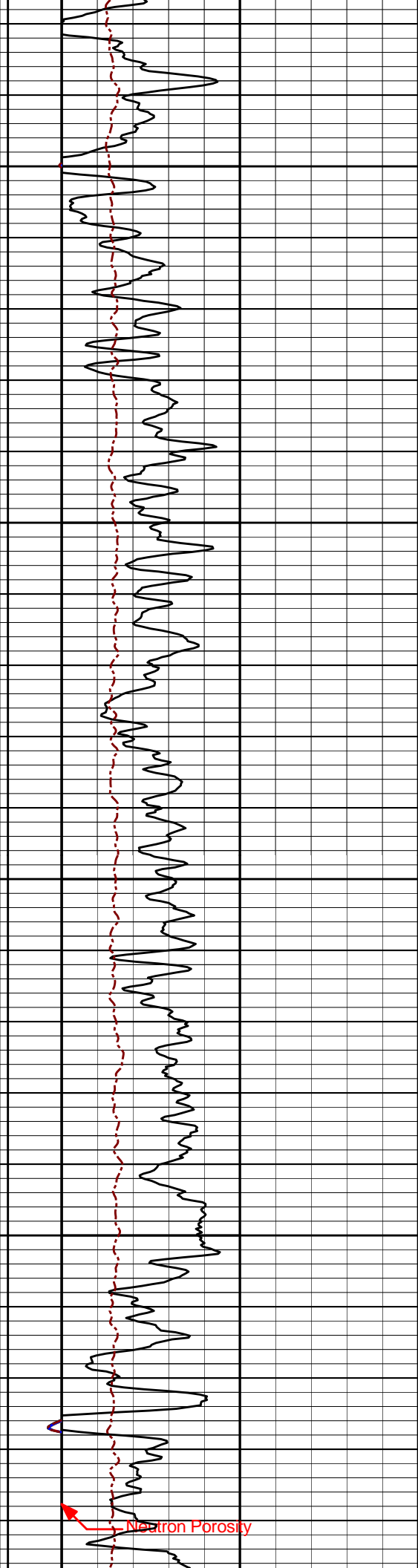
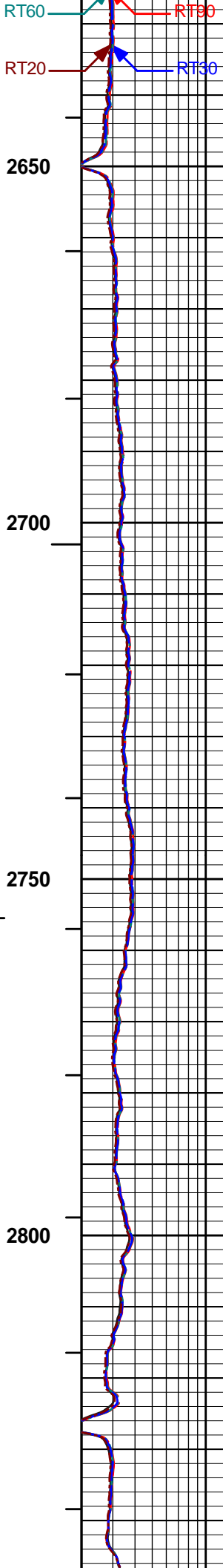
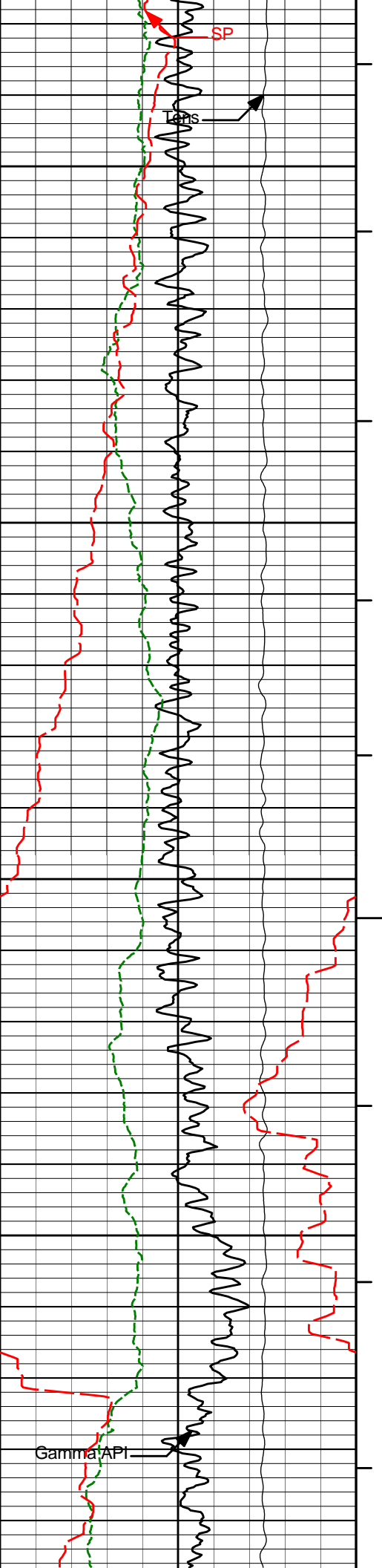


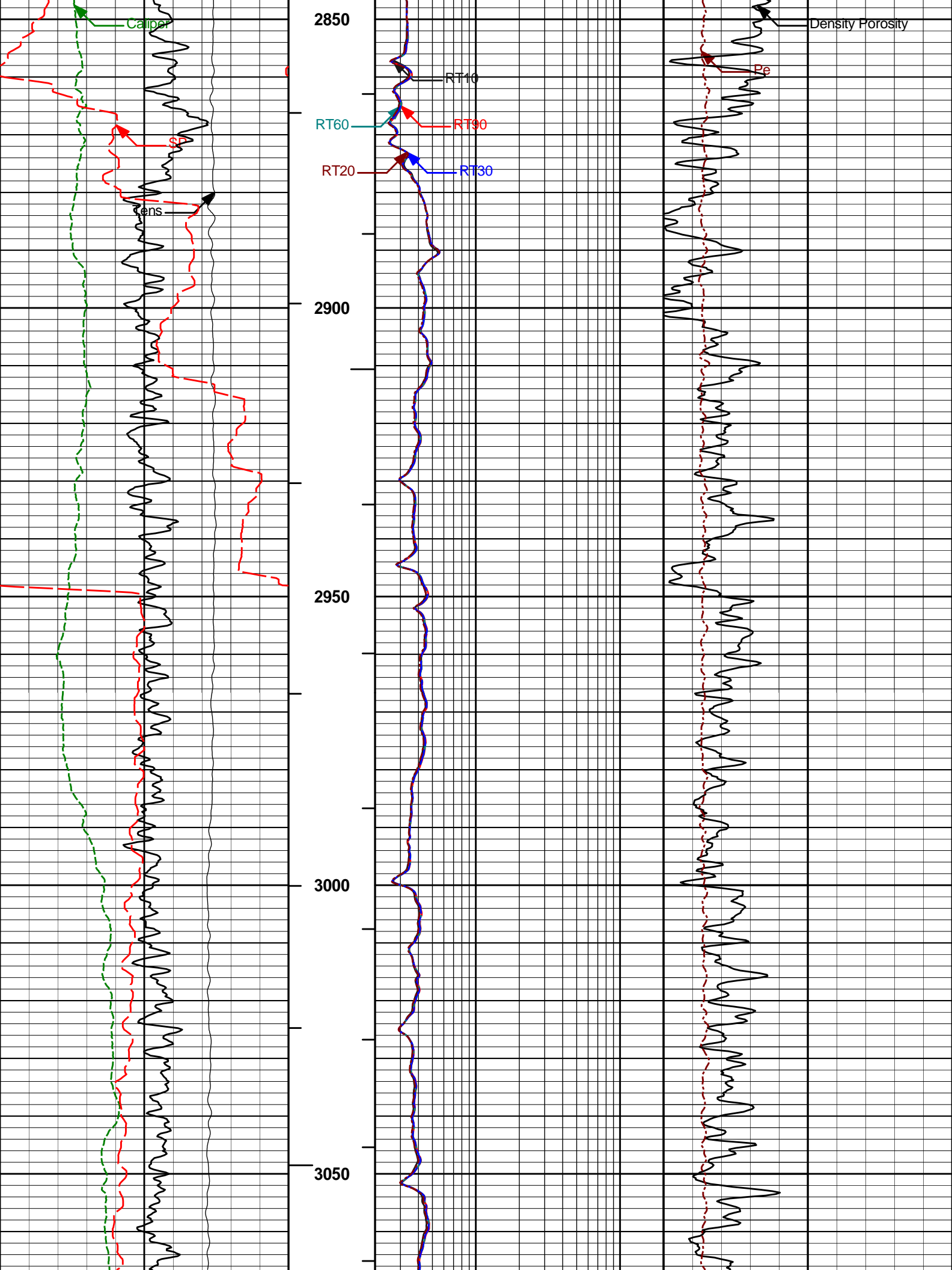


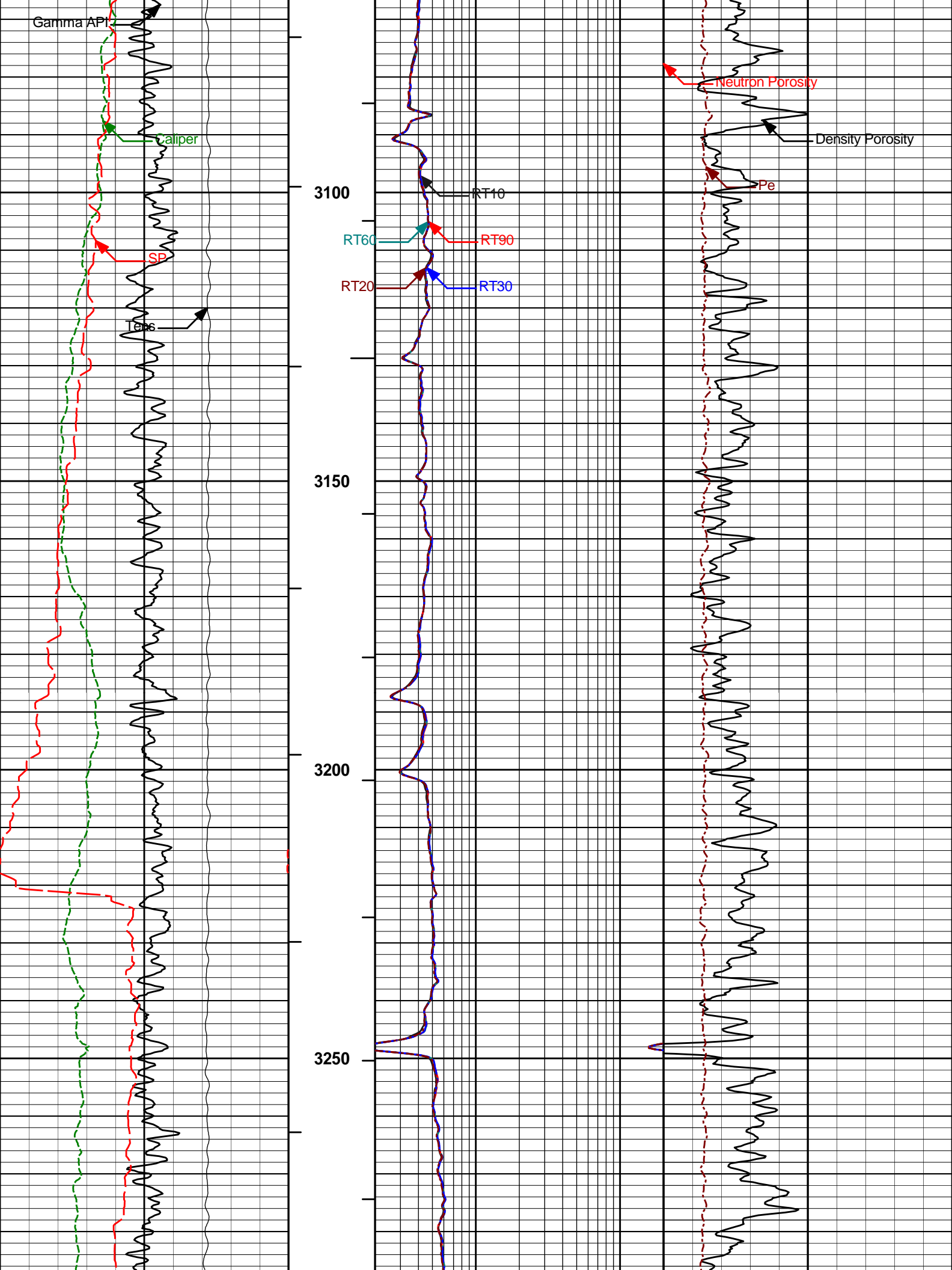


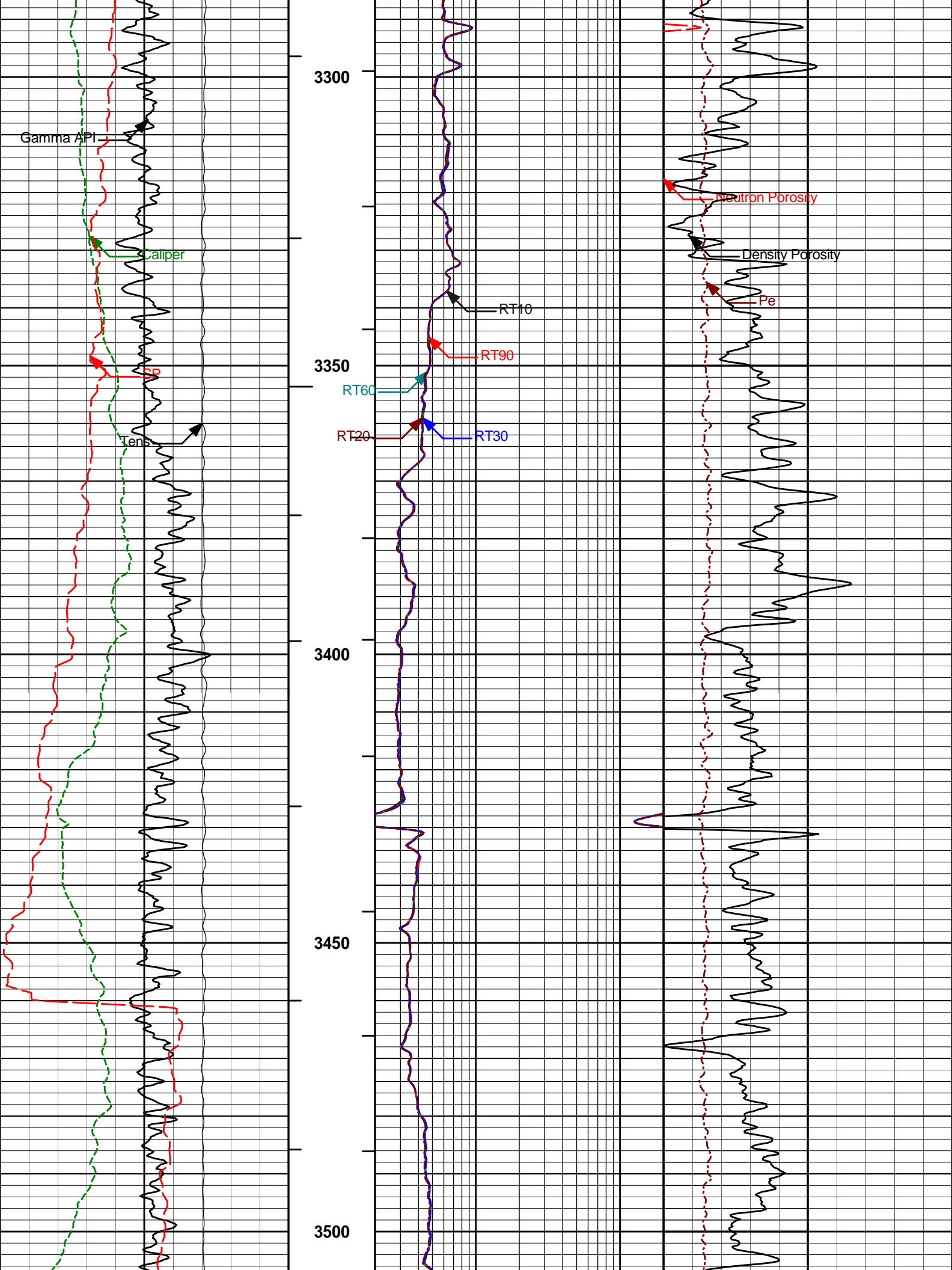


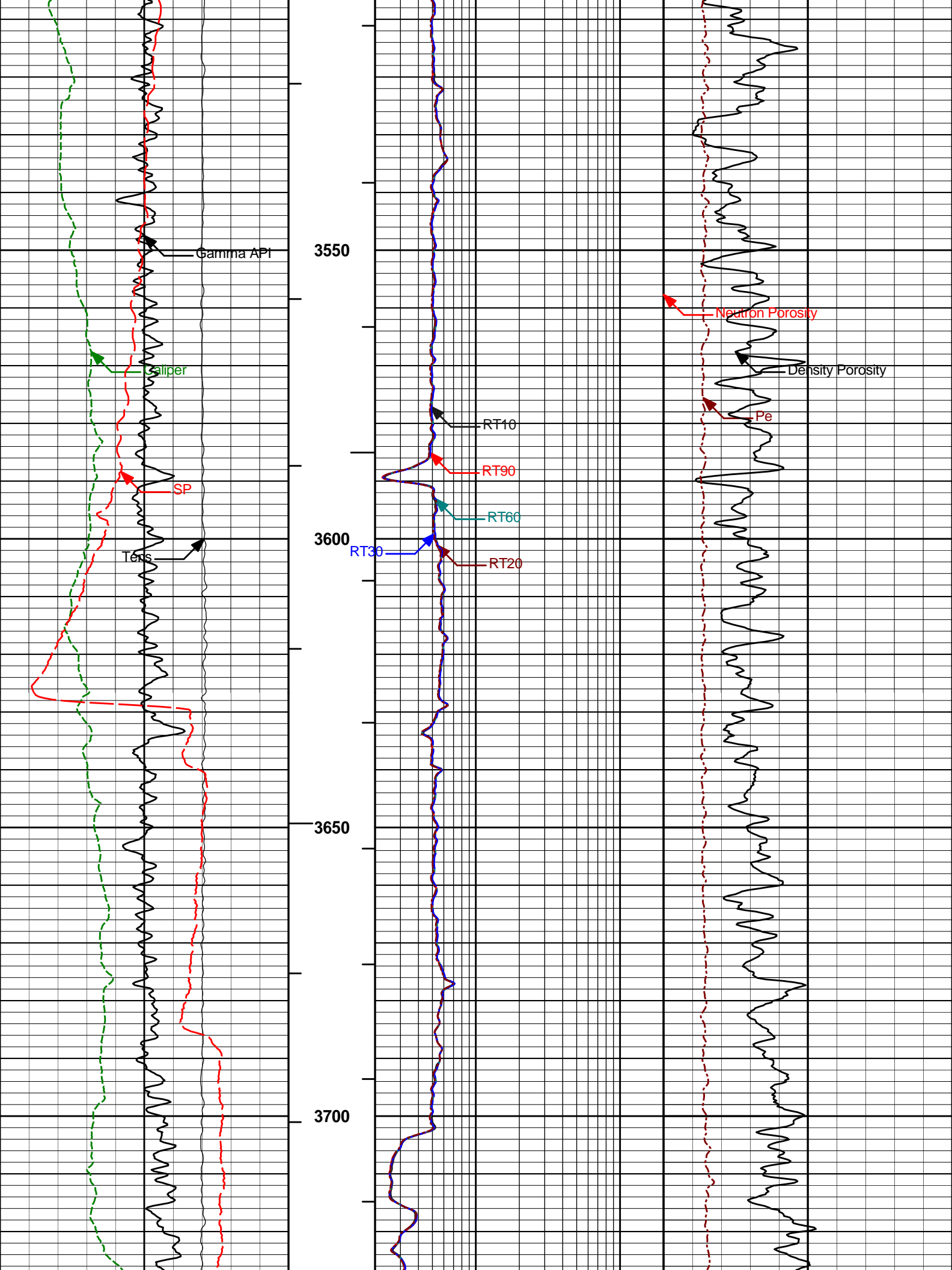


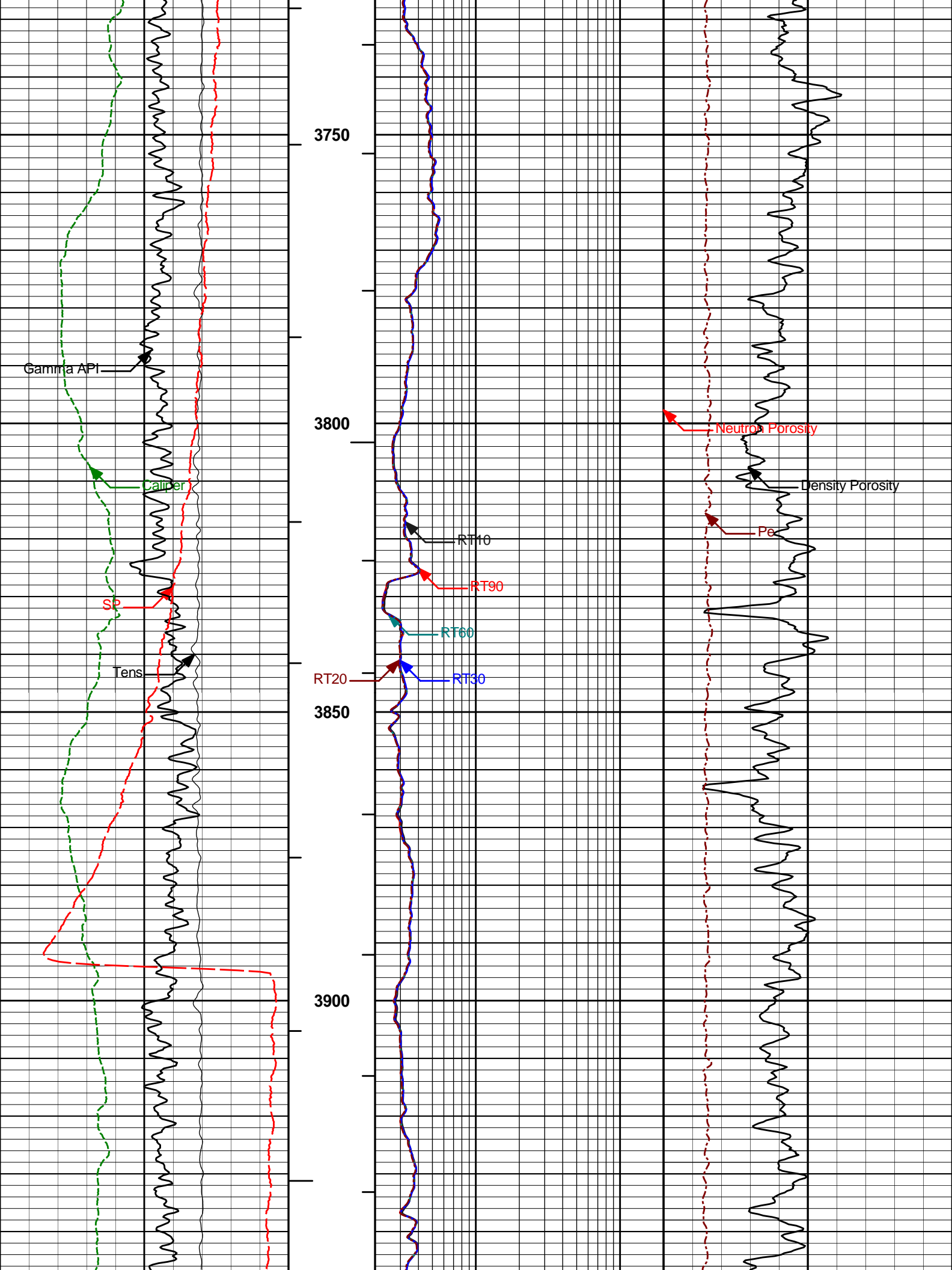


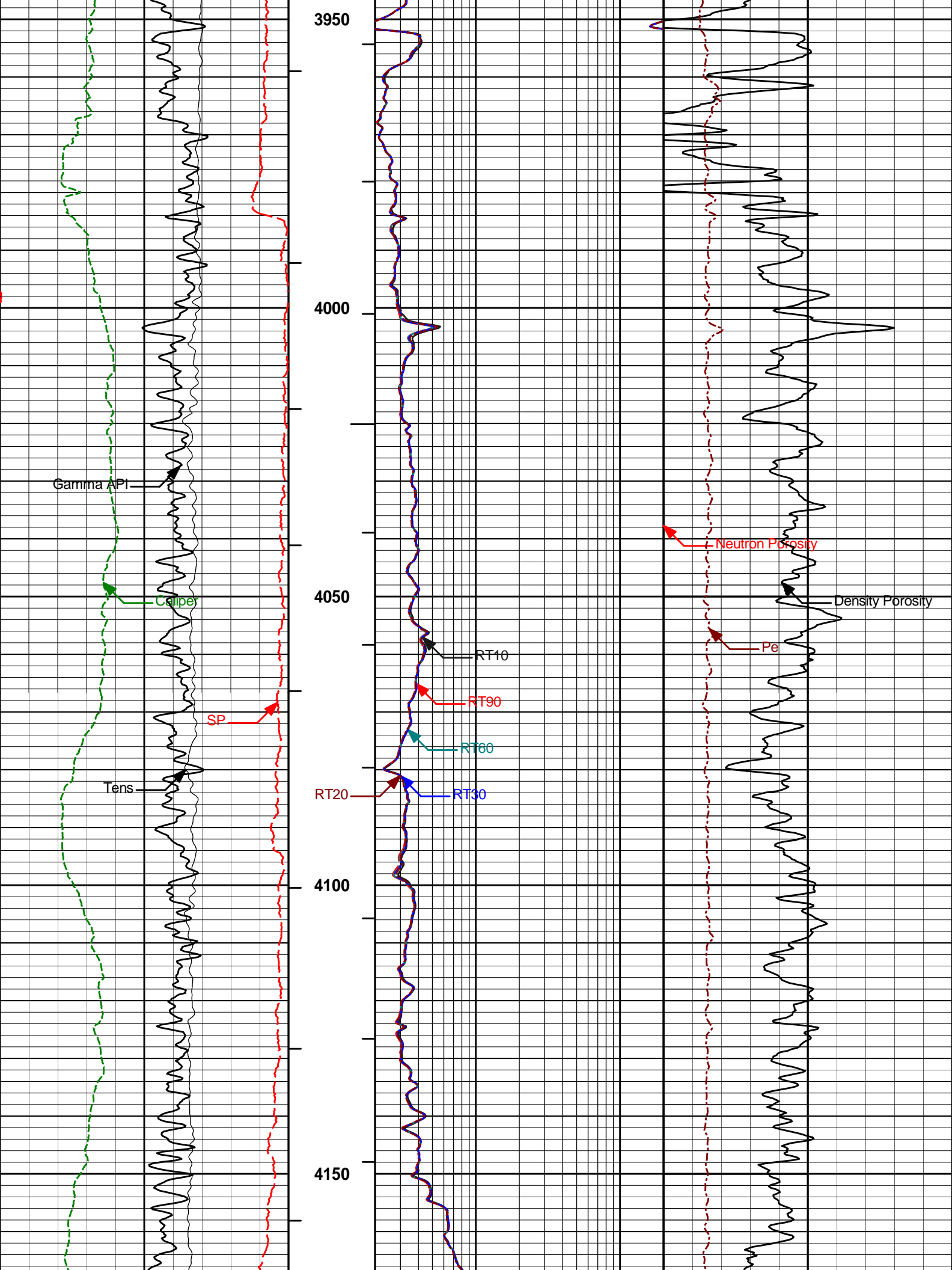


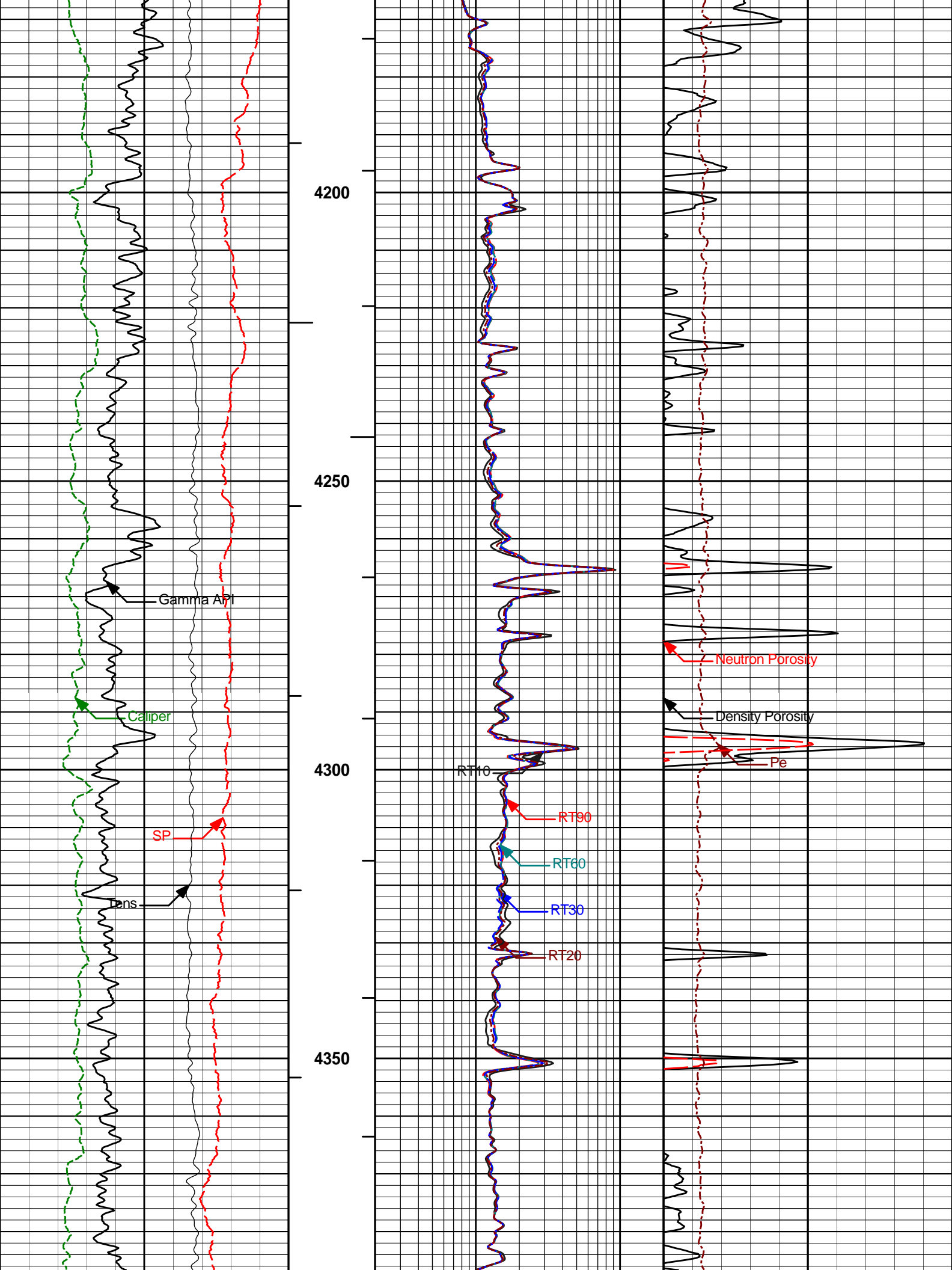


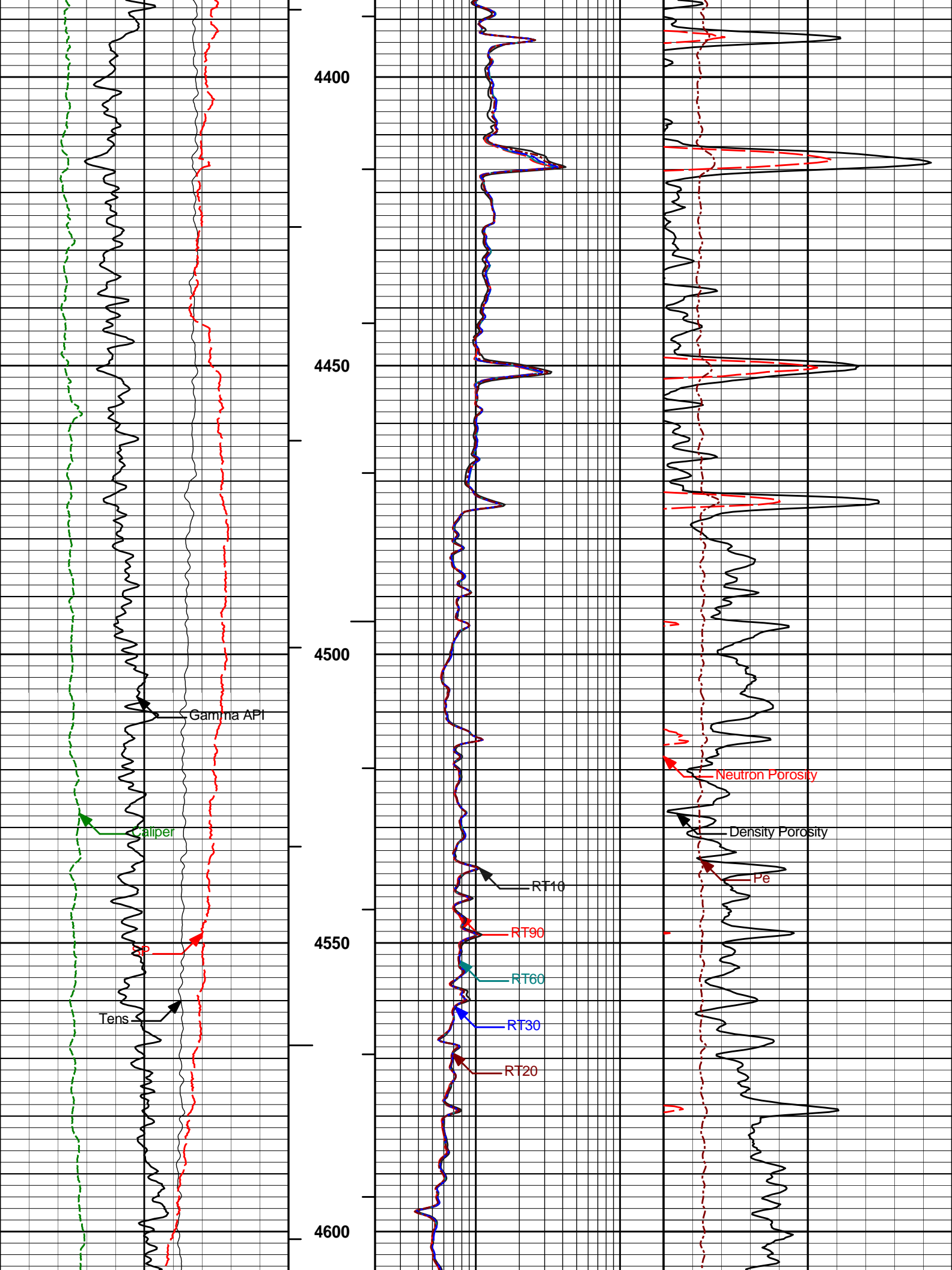


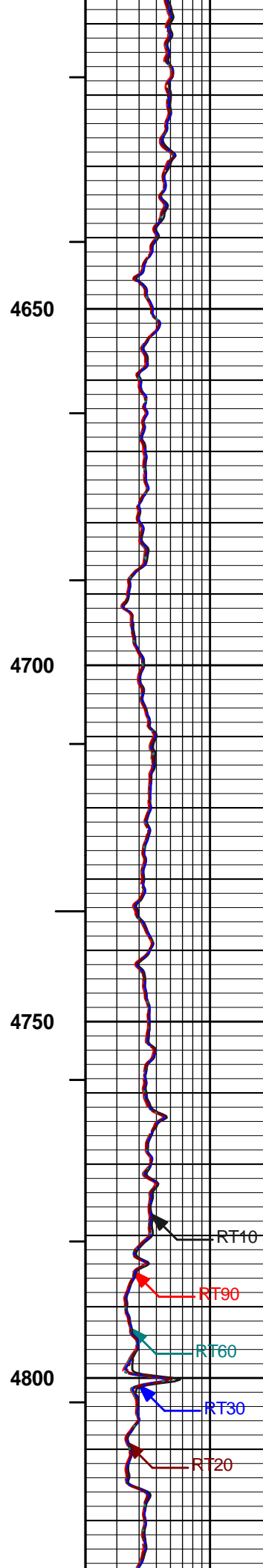
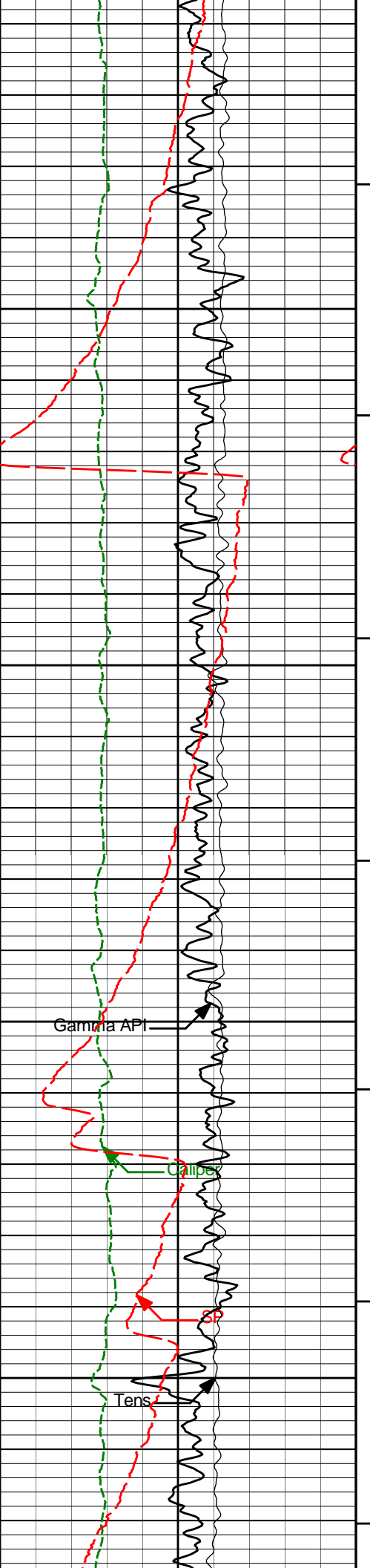


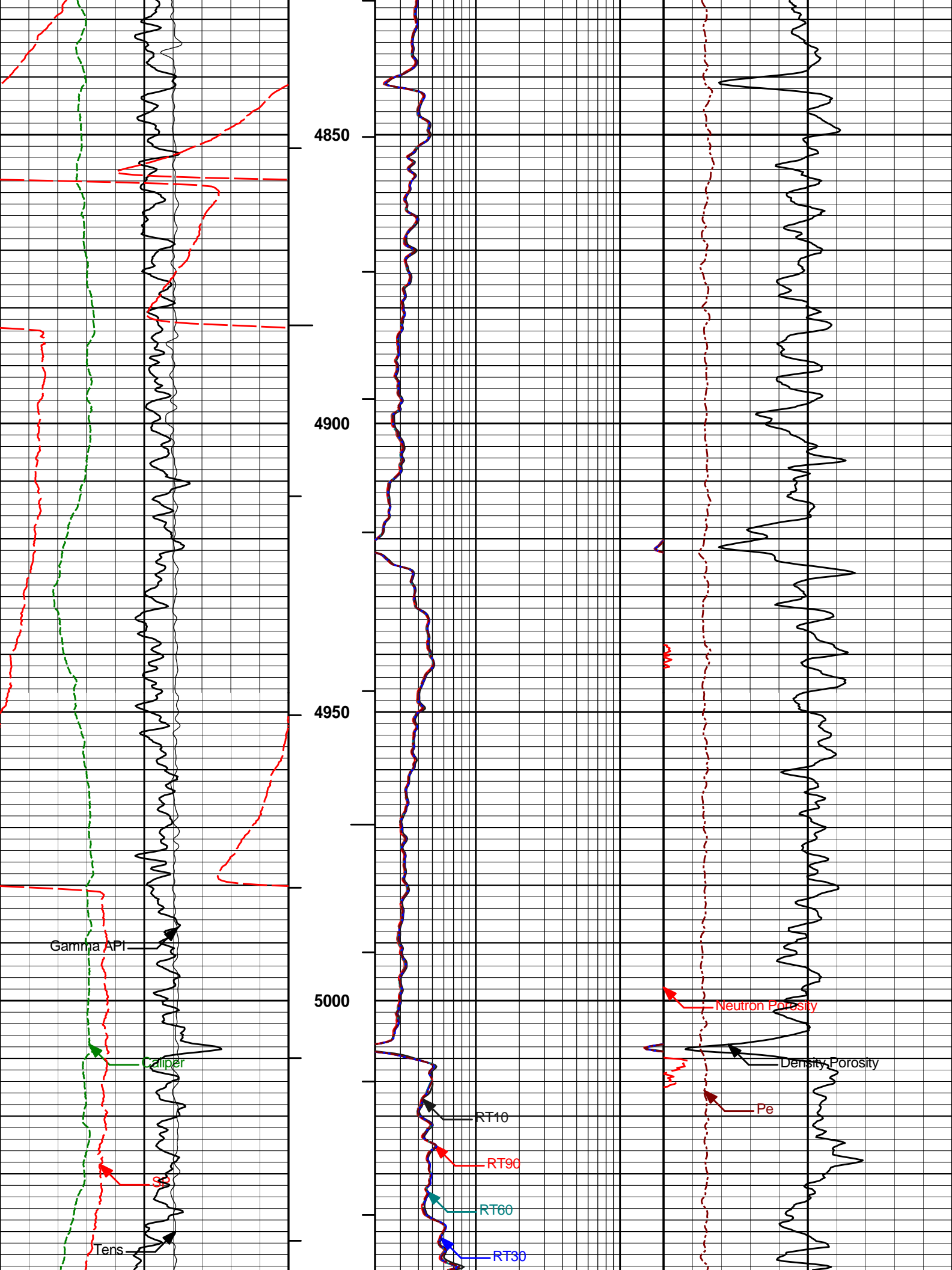


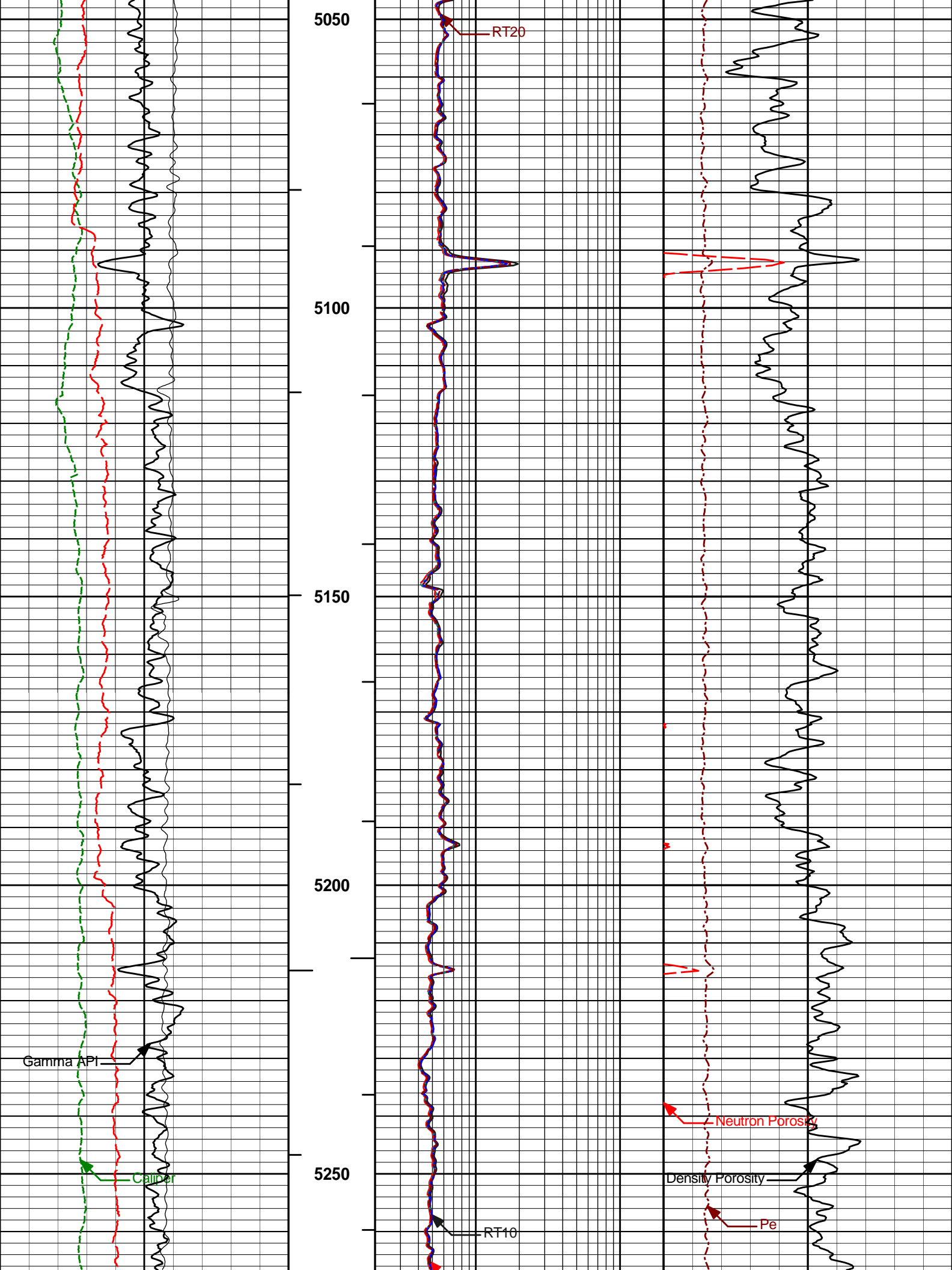


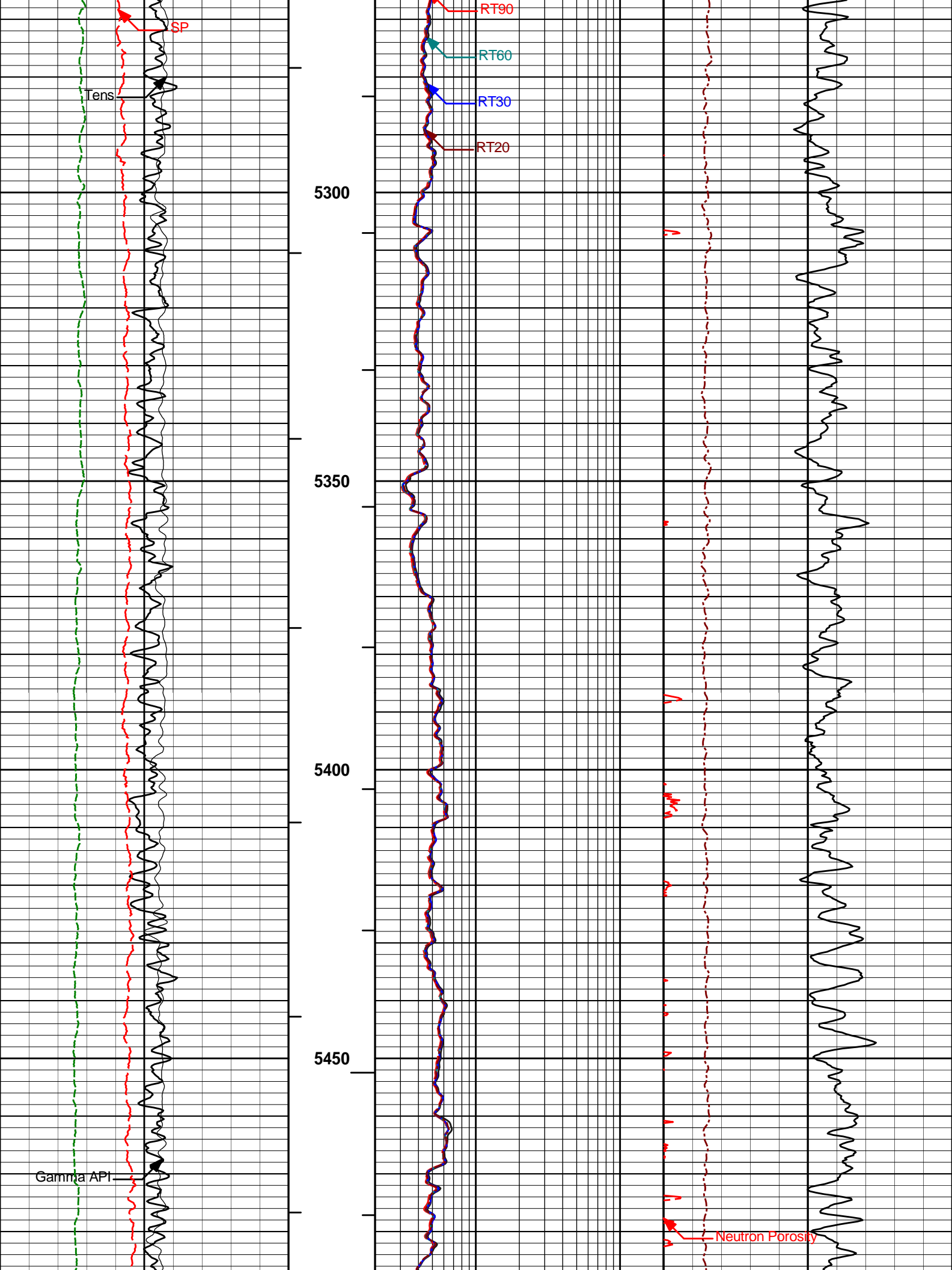


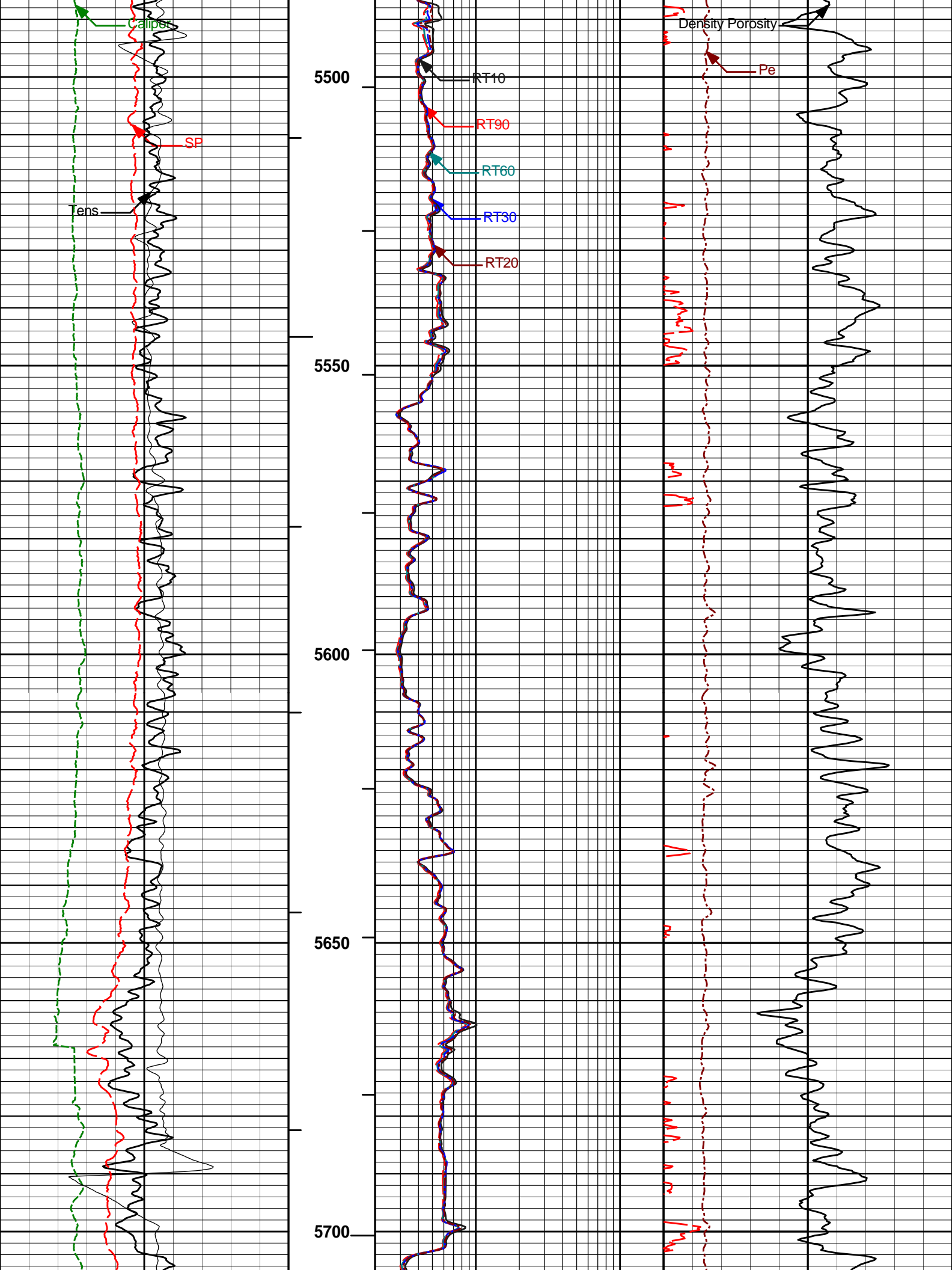


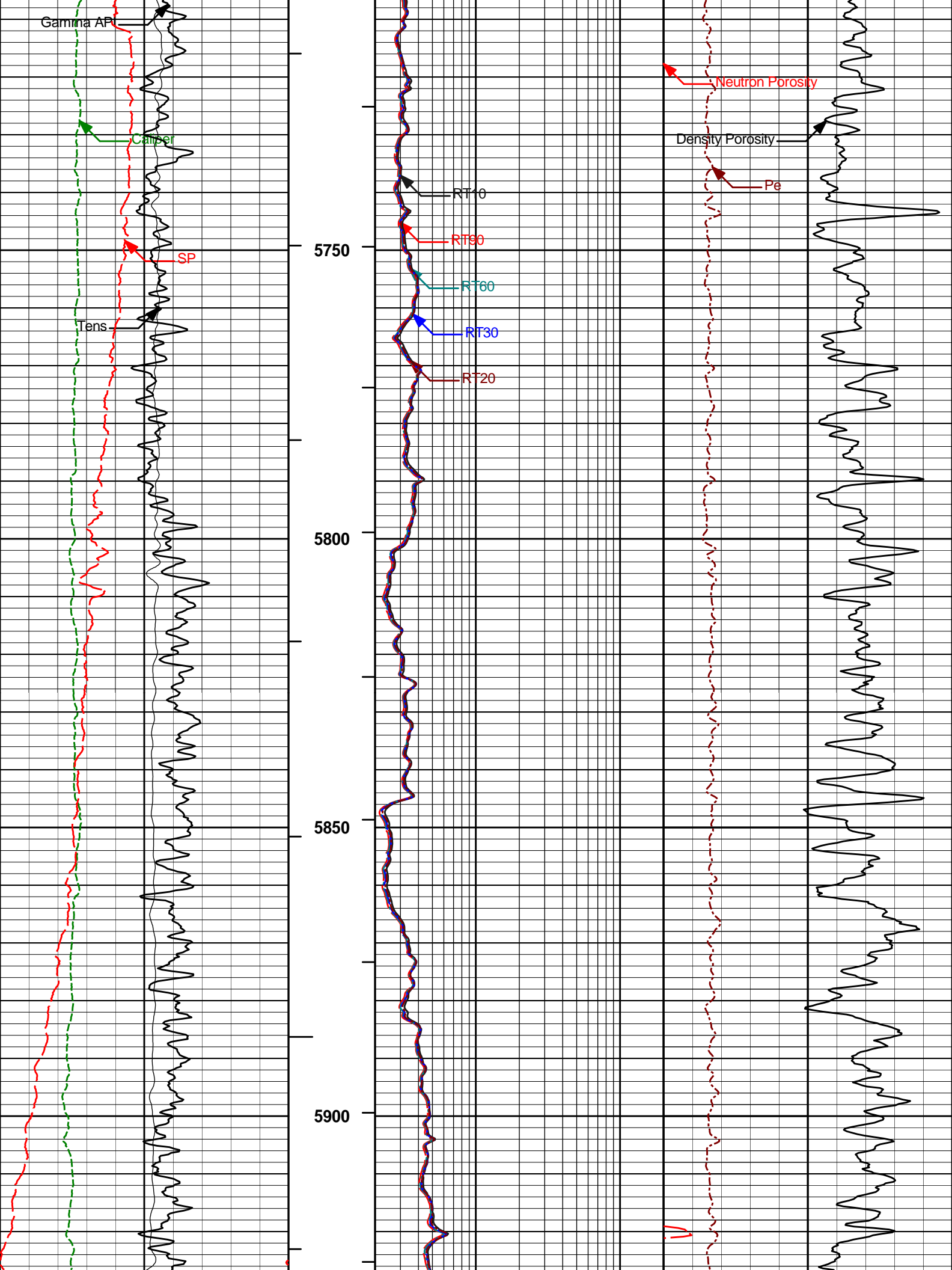


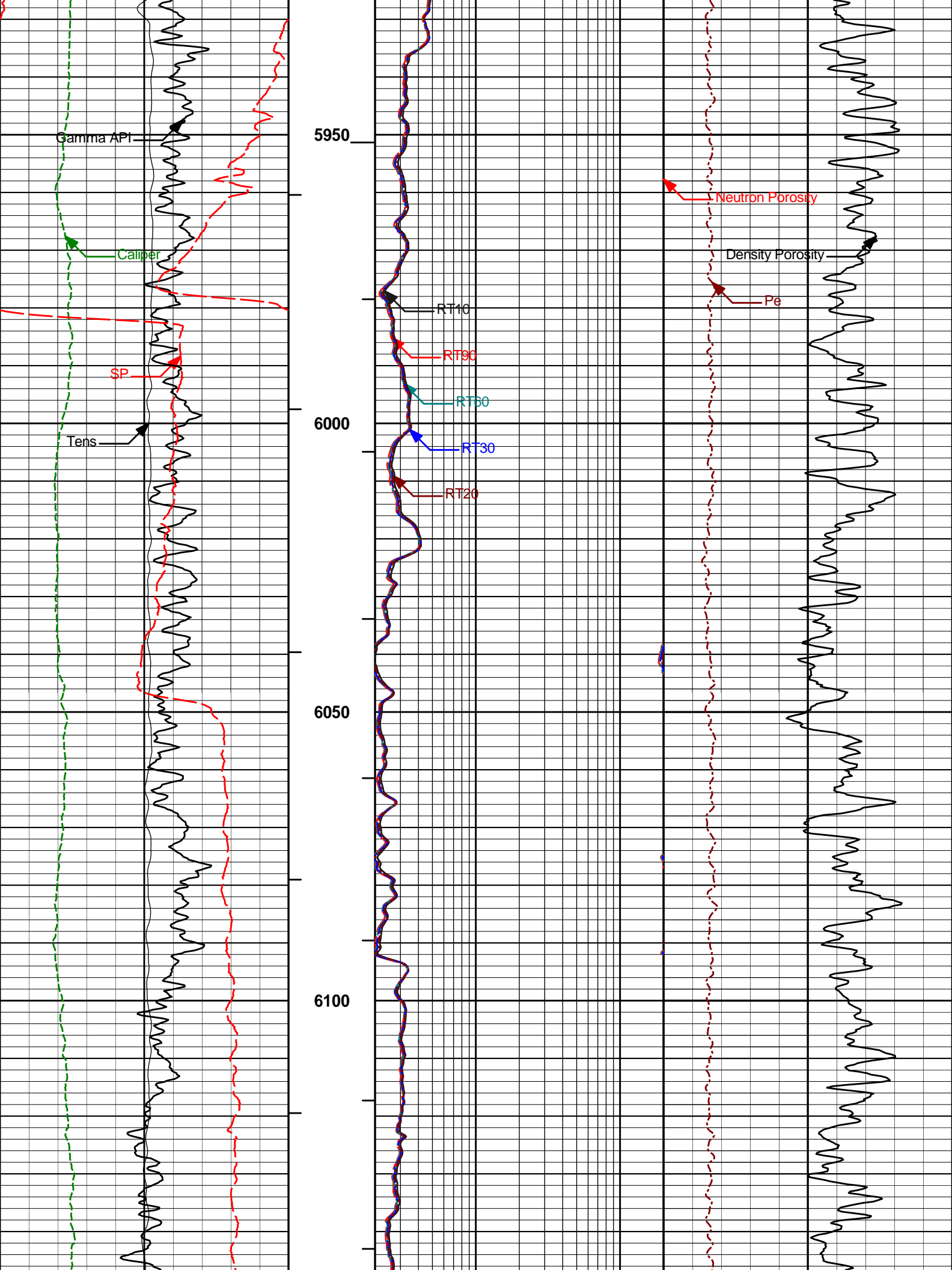


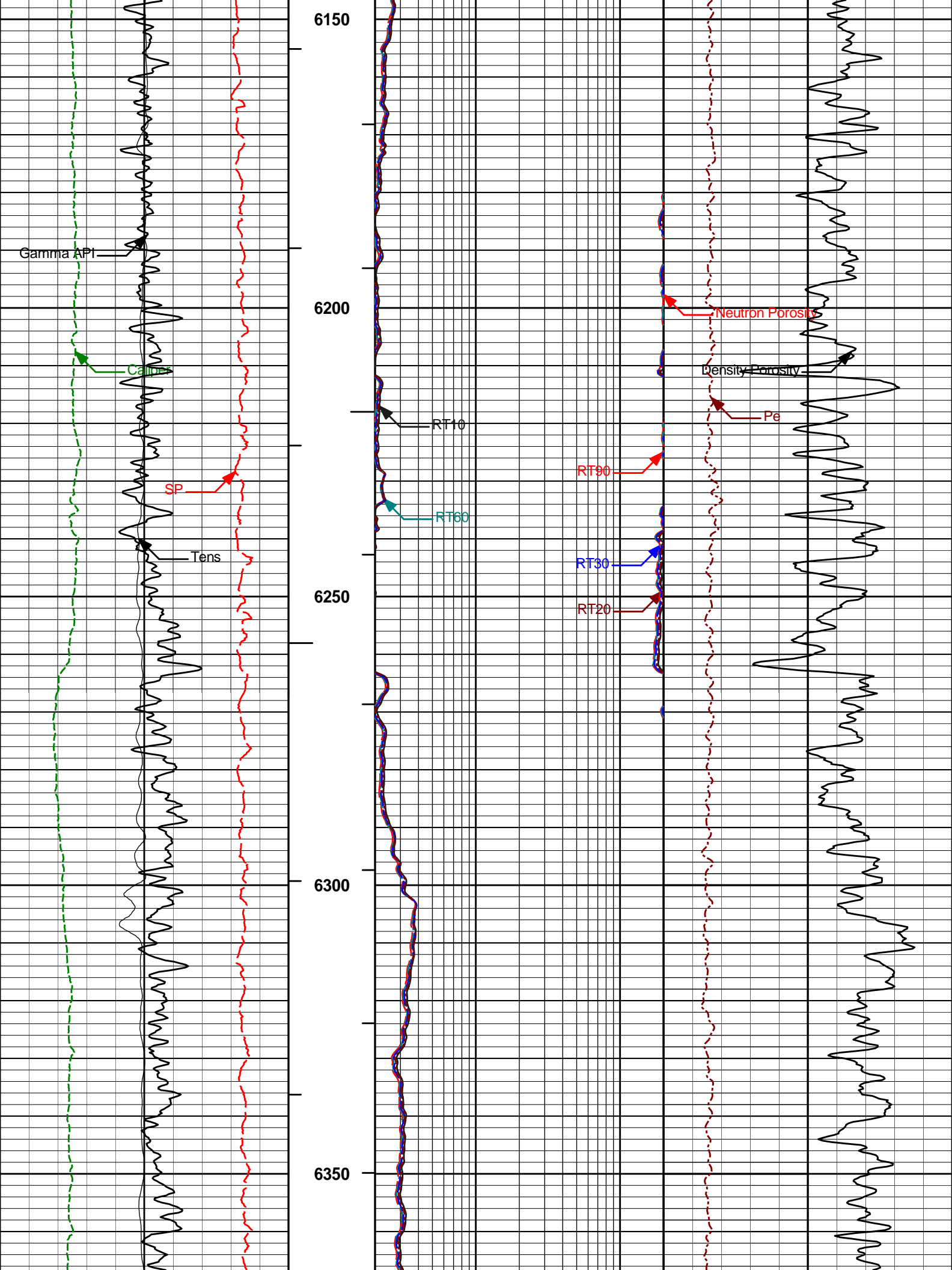


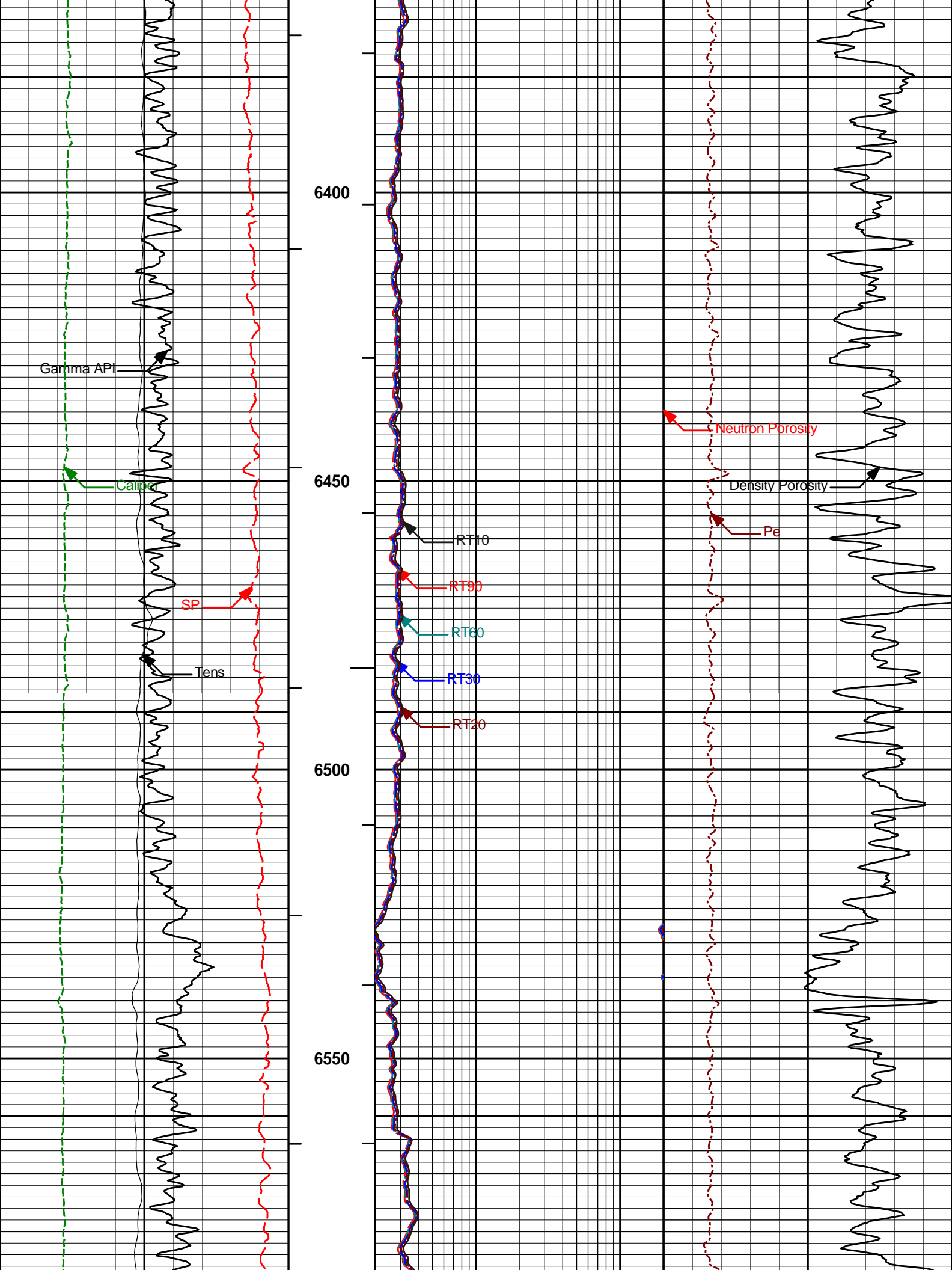


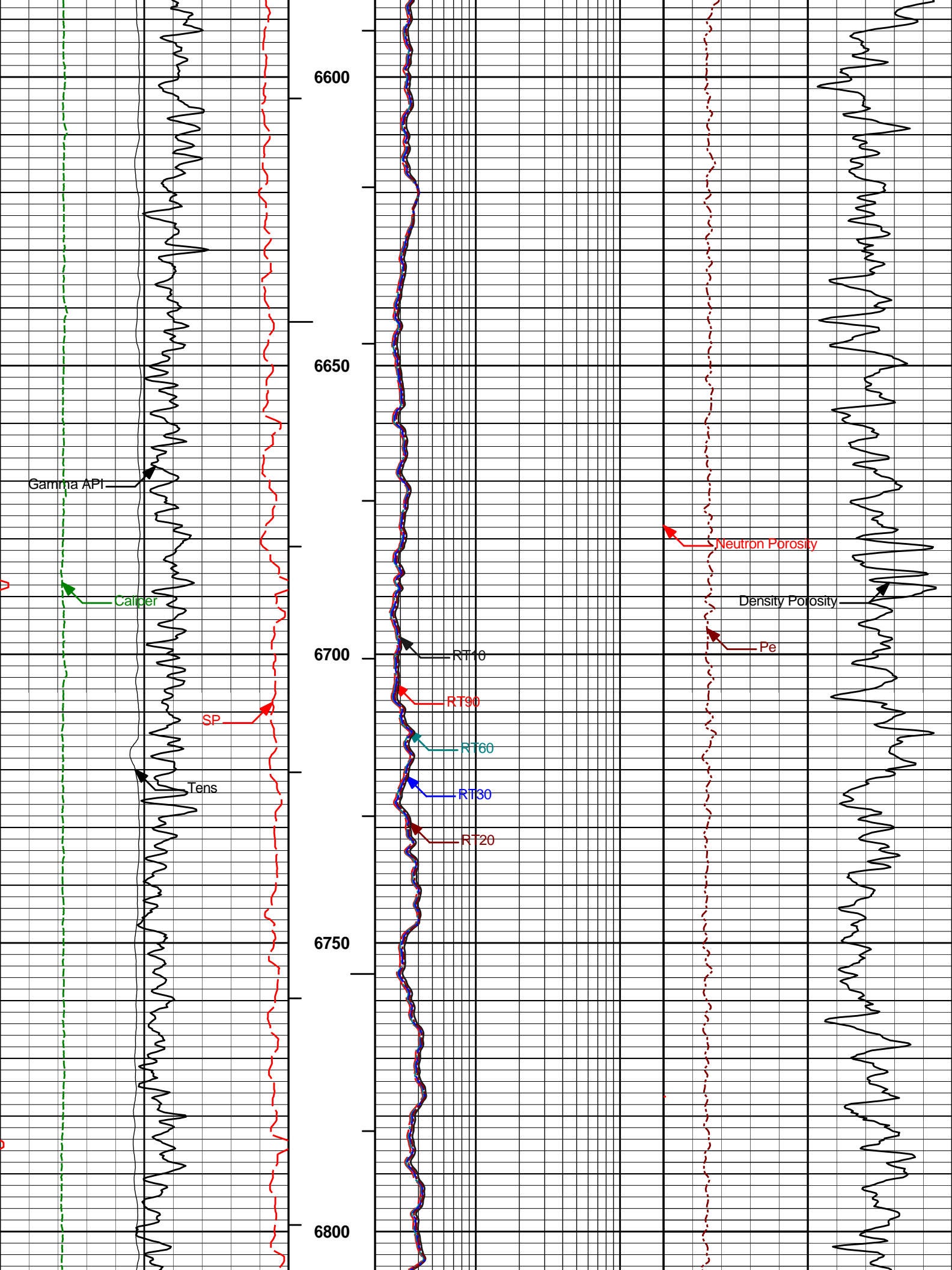


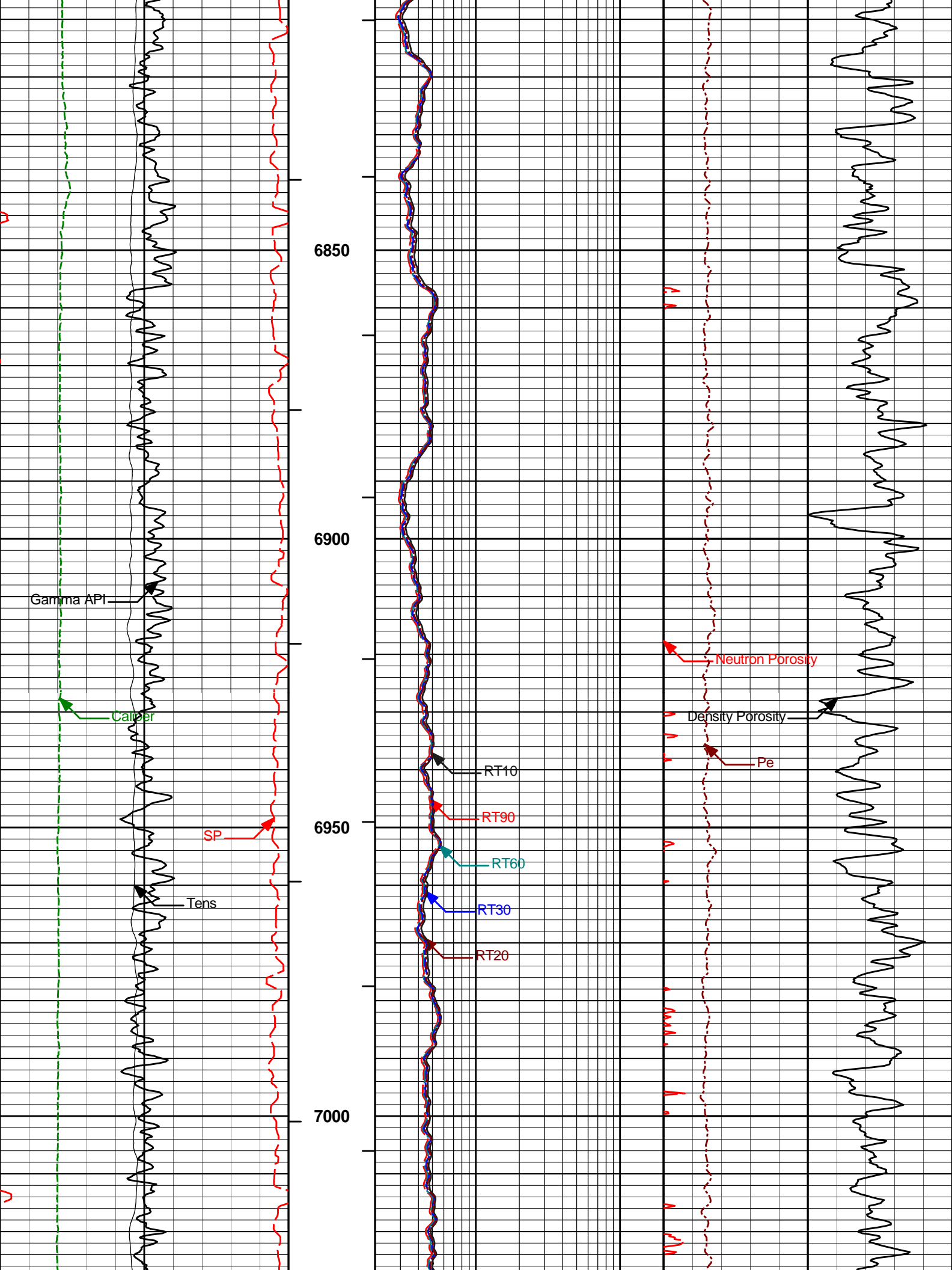


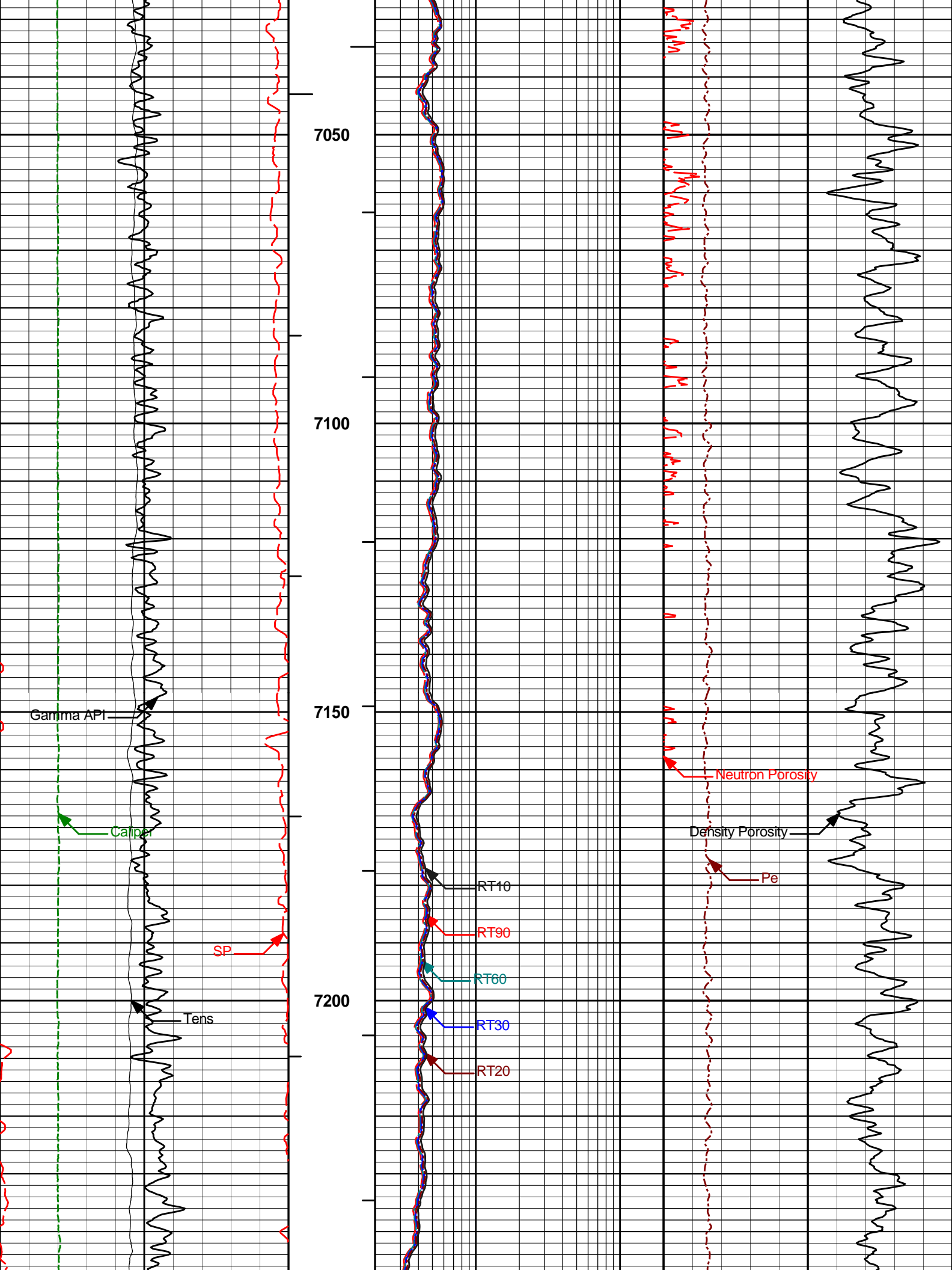


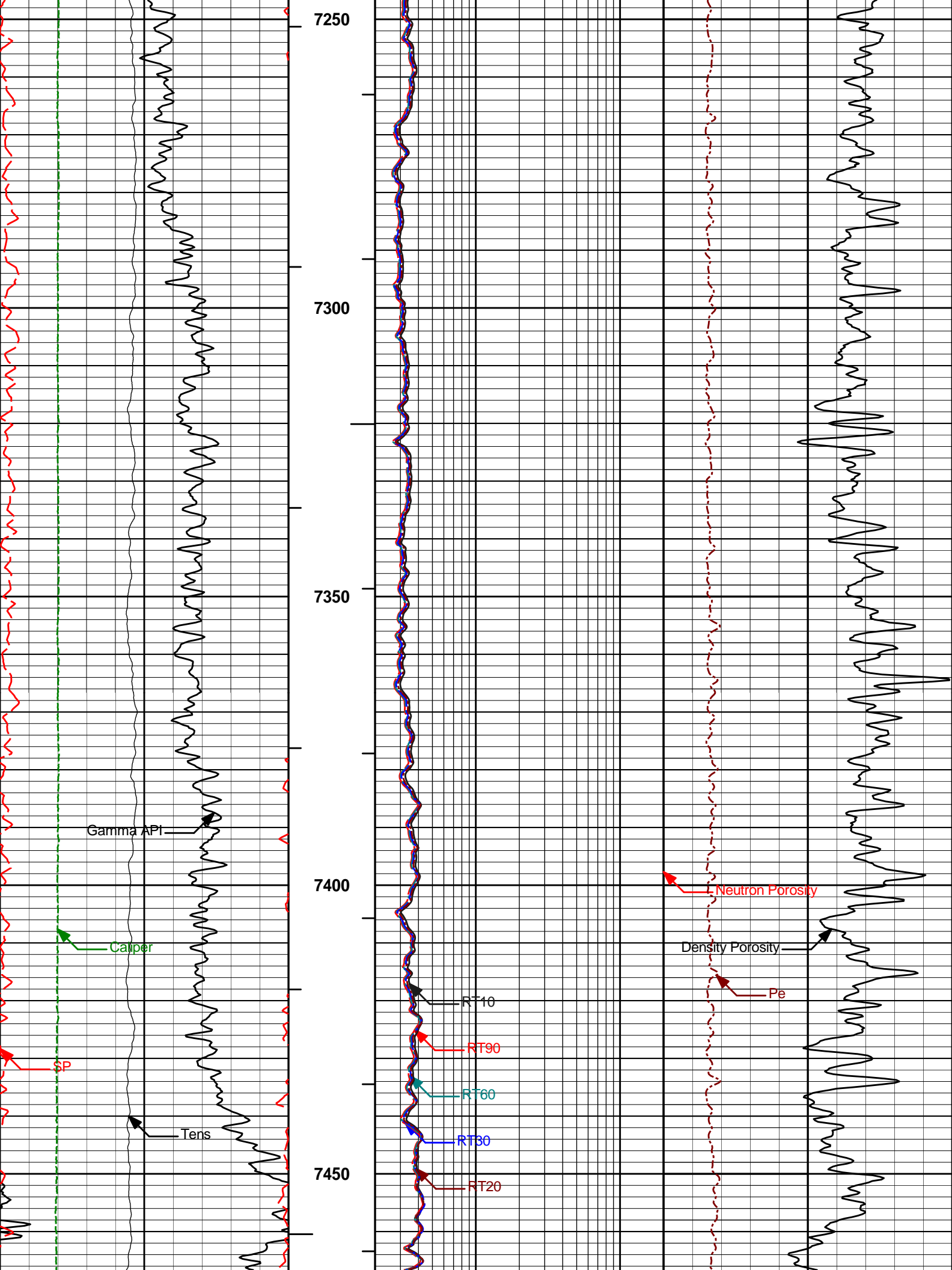


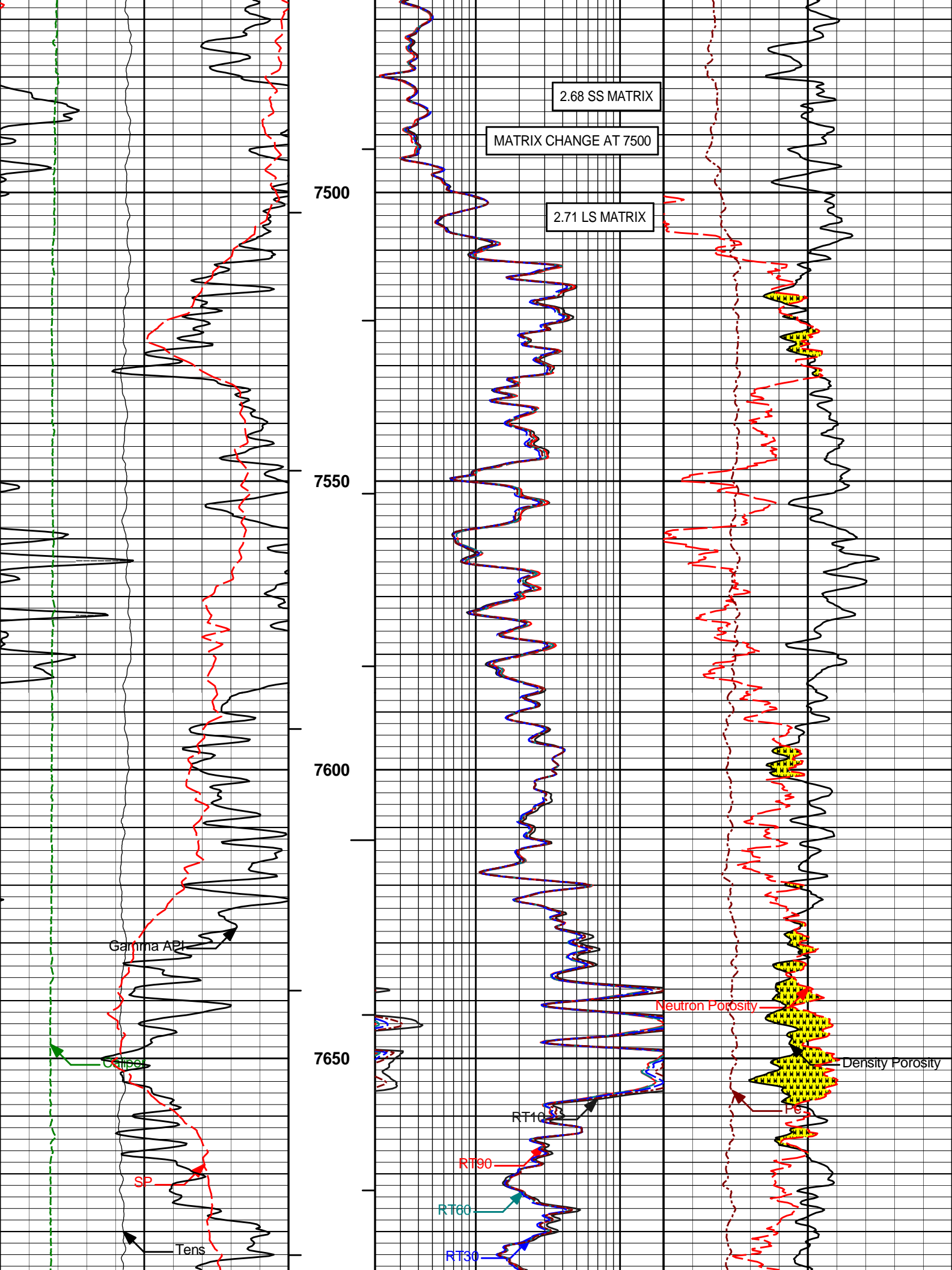


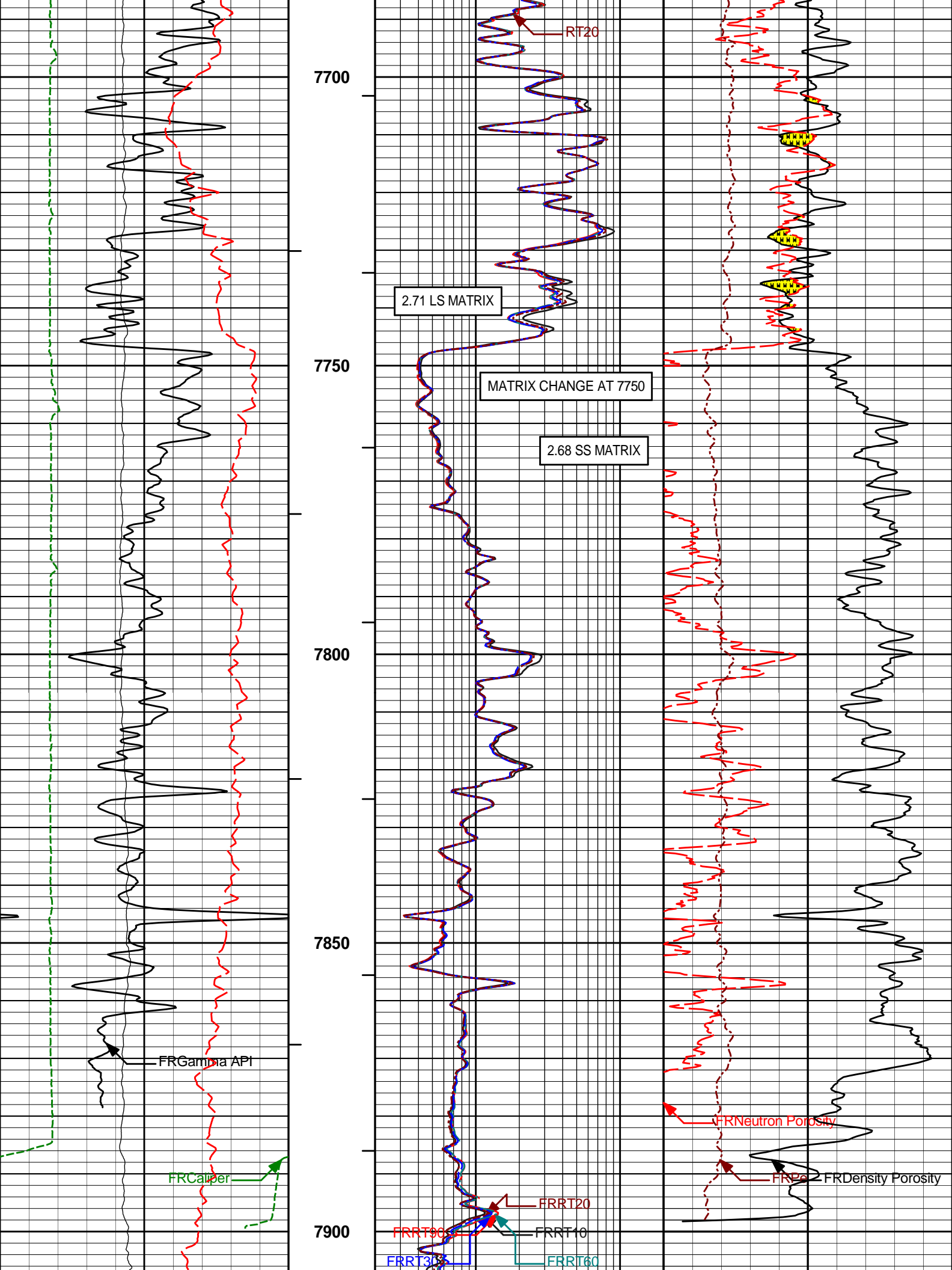


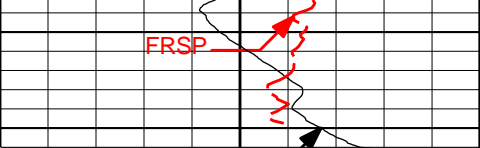
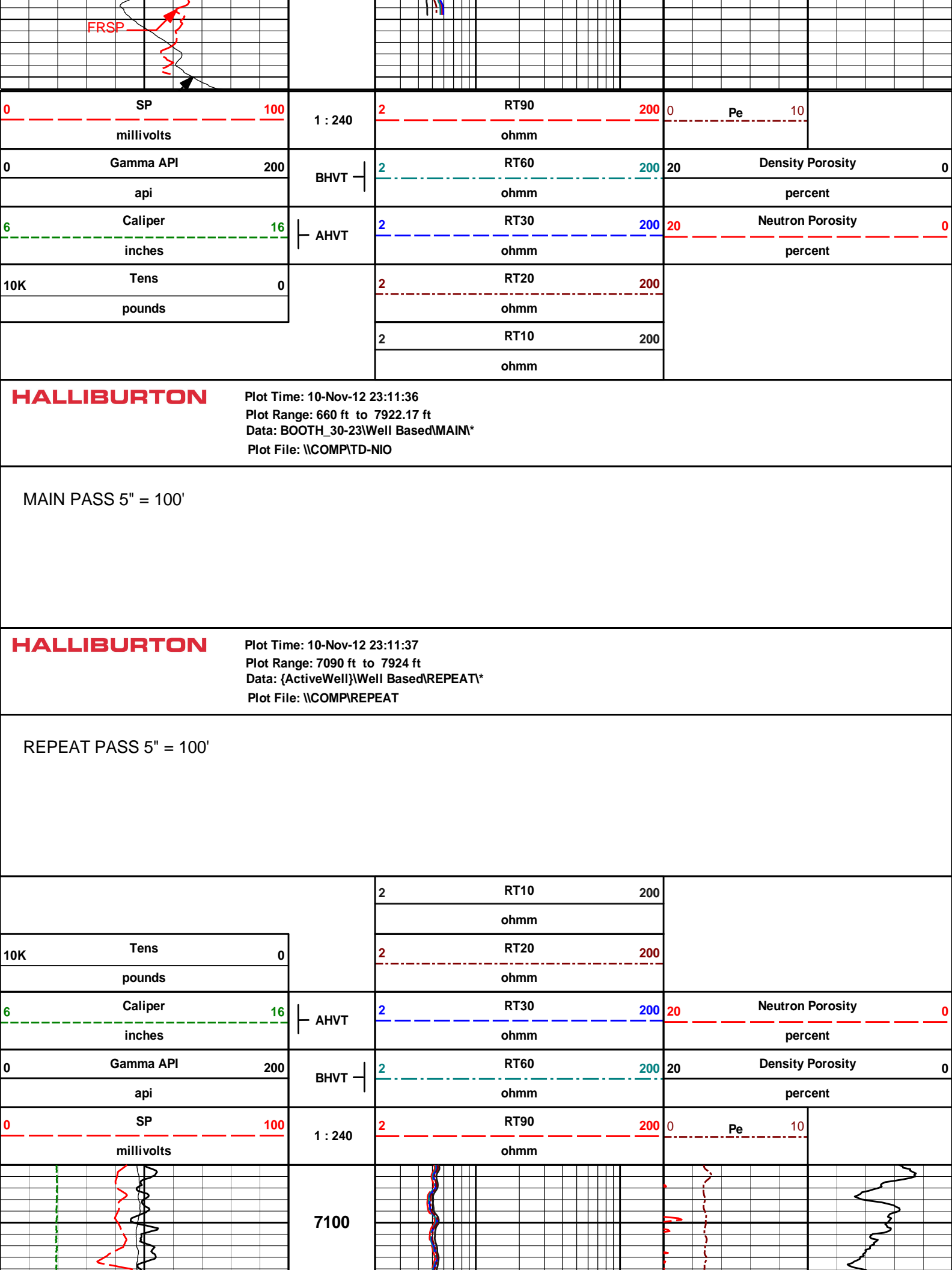












0	SP	100
	millivolts	

1 : 240

2	RT90	200
	ohmm	

0	Pe	10
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0	Gamma API	200
	api	

BHVT

2	RT60	200
	ohmm	

20	Density Porosity	0
	percent	

6	Caliper	16
	inches	

AHVT

2	RT30	200
	ohmm	

20	Neutron Porosity	0
	percent	

10K	Tens	0
	pounds	

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2	RT20	200
	ohmm	

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2	RT10	200
	ohmm	

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HALLIBURTON

Plot Time: 10-Nov-12 23:11:36
Plot Range: 660 ft to 7922.17 ft
Data: BOOTH_30-23\Well Based\MAIN*
Plot File: \COMP\TD-NIO

MAIN PASS 5" = 100'

HALLIBURTON

Plot Time: 10-Nov-12 23:11:37
Plot Range: 7090 ft to 7924 ft
Data: {ActiveWell}\Well Based\REPEAT*
Plot File: \COMP\REPEAT

REPEAT PASS 5" = 100'

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2	RT10	200
	ohmm	

--

10K	Tens	0
	pounds	

--

2	RT20	200
	ohmm	

--

6	Caliper	16
	inches	

AHVT

2	RT30	200
	ohmm	

20	Neutron Porosity	0
	percent	

0	Gamma API	200
	api	

BHVT

2	RT60	200
	ohmm	

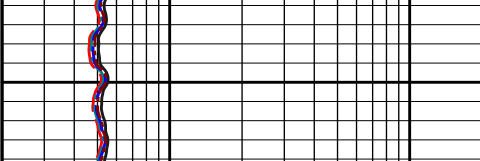
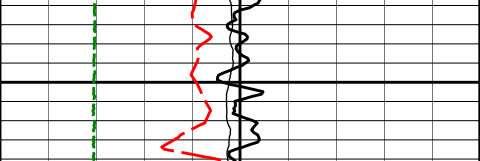
20	Density Porosity	0
	percent	

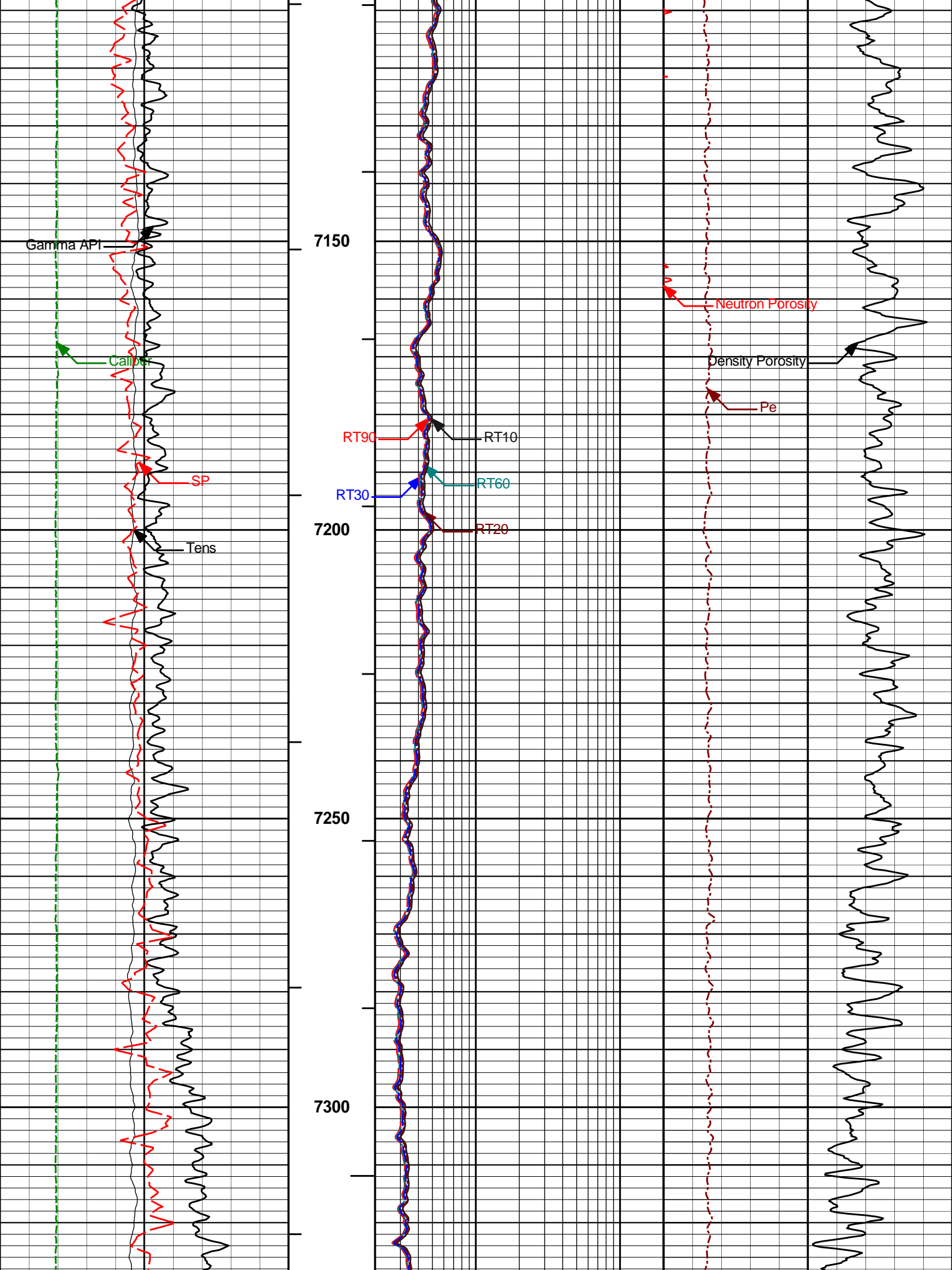
0	SP	100
	millivolts	

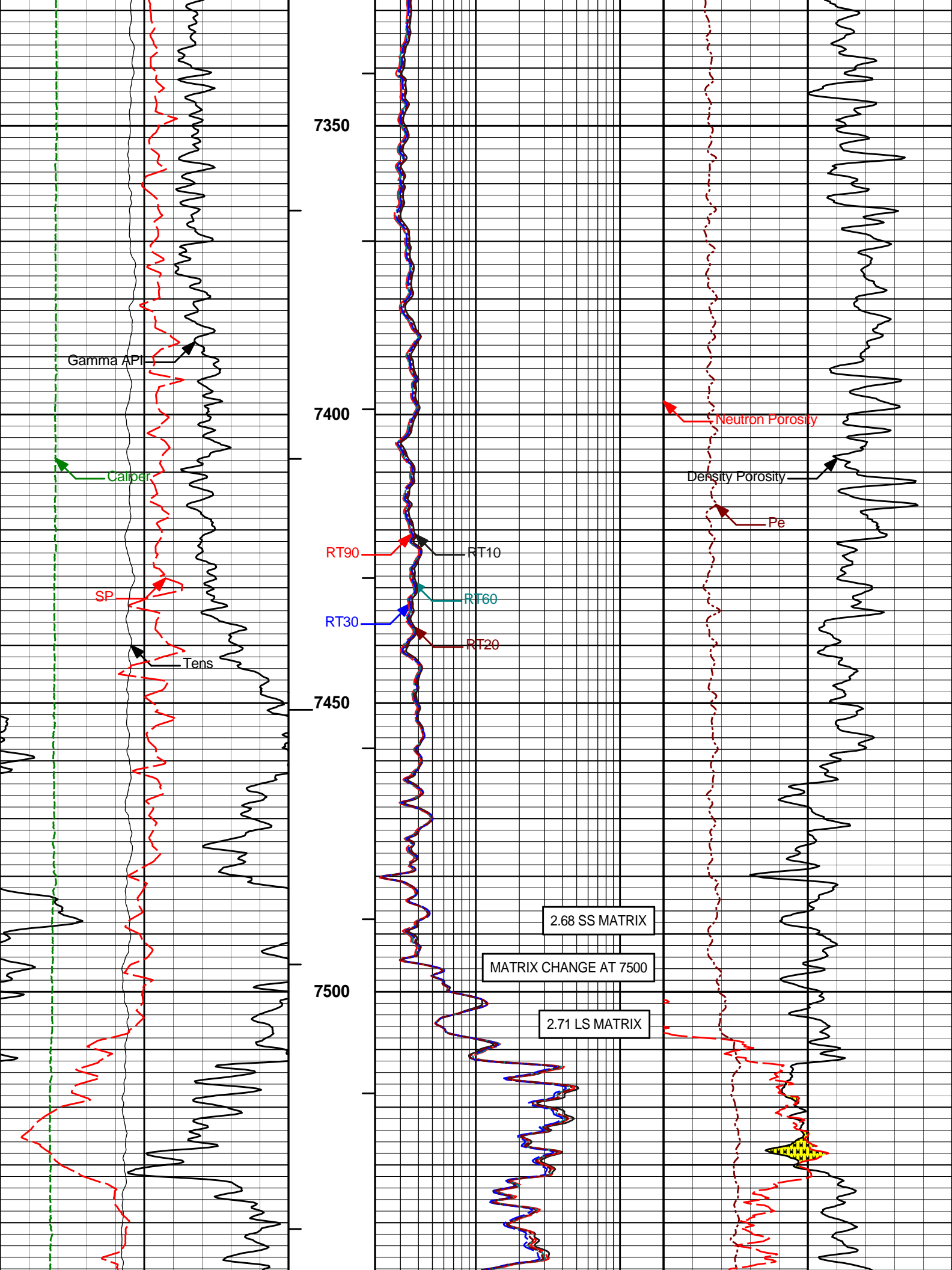
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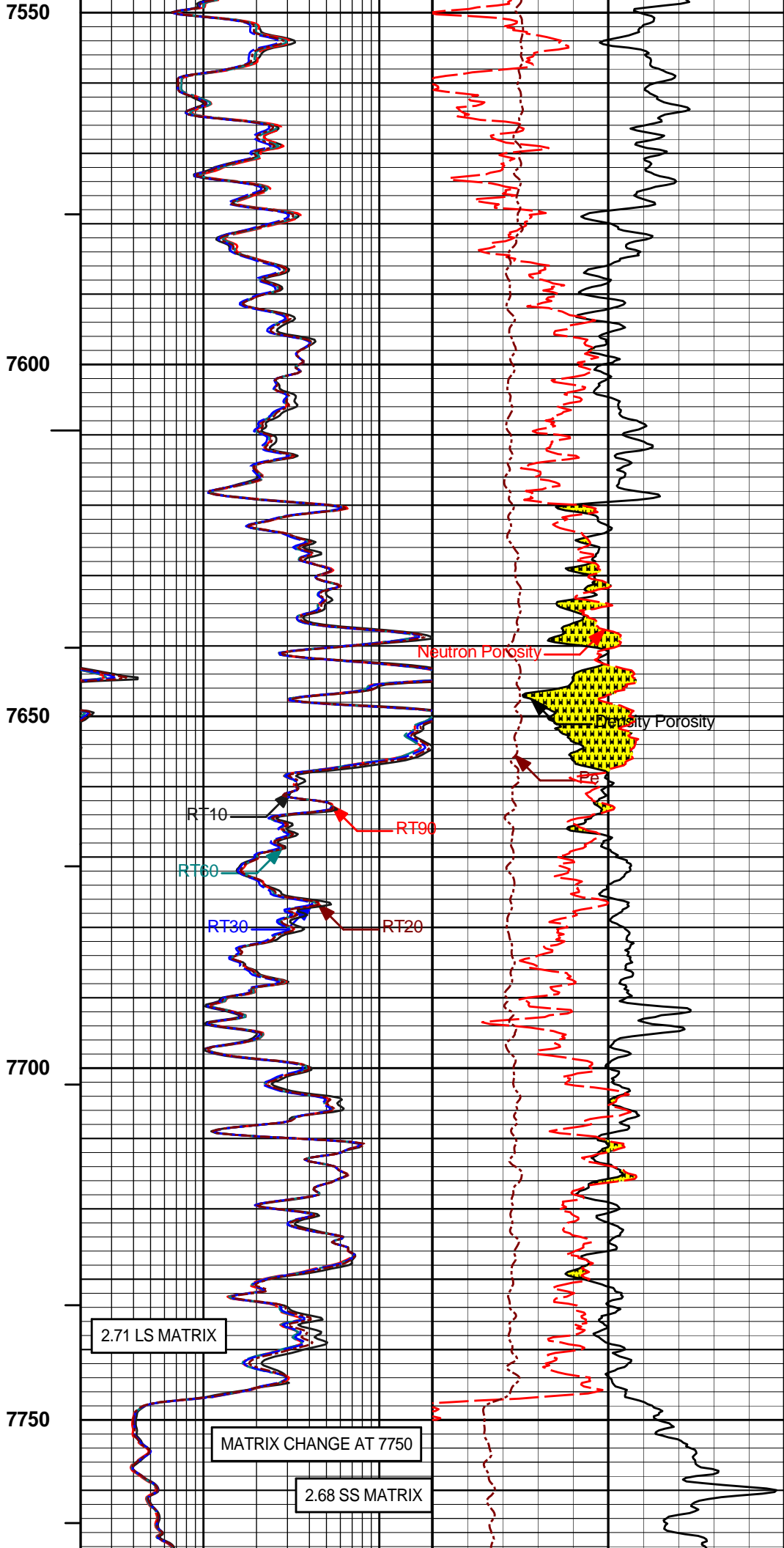
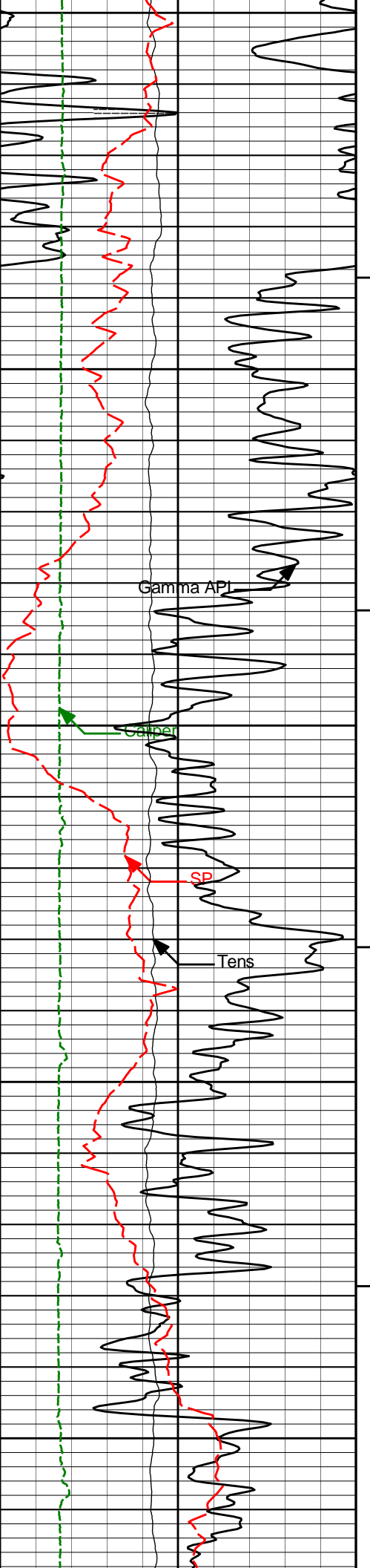
2	RT90	200
	ohmm	

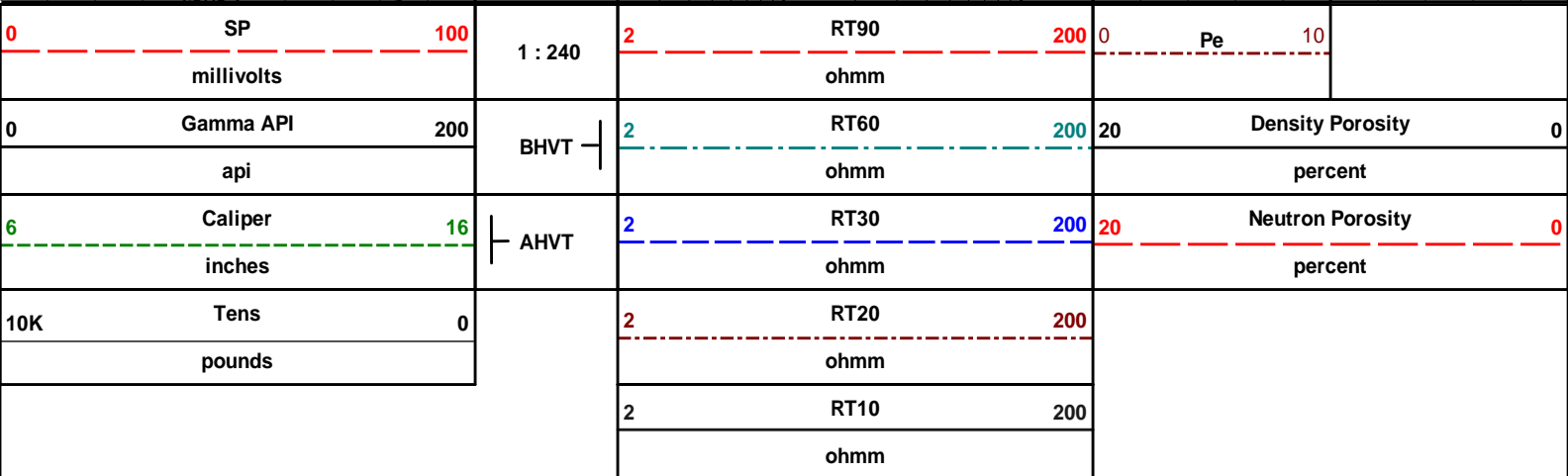
0	Pe	10
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REPEAT PASS 5" = 100'

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:	GTET - 11812883	Reference Calibration Date:	26-Sep-12 06:39:34
Engineer:	R. TWEETEN	Calibration Date:	31-Oct-12 08:34:43
Software Version:	WL INSITE R3.6.2 (Build 7)	Calibration Version:	1

Calibrator Source S/N: TB-289
Calibrator API Reference:243.00 api
Equivalent Calibrator API Reference:247.3 api

Measurement	Measured	Calibrated	Units
Background	165.2	168.9	api
Background + Calibrator	406.9	416.2	api
Calibrator	241.8	247.3	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name:	GTET - 11812883	Reference Calibration Date:	31-Oct-12 08:34:43
Engineer:	R. TWEETEN	Calibration Date:	10-Nov-12 15:12:42
Software Version:	WL INSITE R3.6.2 (Build 7)	Calibration Version:	1

Calibrator Source S/N: TB-289
Calibrator API Reference:243.00 api
Equivalent Calibrator API Reference:247.3 api

Field Verification	Shop	Field	Units
Background	168.9	80.7	api
Background + Calibrator	416.2	335.3	api
Calibrator	247.3	254.6	api

Shop	Field	Difference	Tolerance
247.3	254.6	-7.3	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name:	DSNT - 11301132	Reference Calibration Date:	01-Oct-12 13:31:51
Engineer:	C. CRADDOCK	Calibration Date:	05-Nov-12 11:09:10
Software Version:	WL INSITE R3.4.4 (Build 2)	Calibration Version:	1

Logging Source S/N: DSN434
Tank Serial Number: 11068236
Reference value assigned to Tank: 53.720
Snow Block S/N: 11454566
Calibration Tank Water Temperature: 75 degF
Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS			
Measurement	Prev. Value	New Value	Control Limit On New Value

Gain:

1.002

1.005

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):	0.2215	0.2224	0.0009	+/- 0.0020
Calibrated Ratio:	10.08	10.11	0.030	+/- 0.050

VERIFIER

Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0838	0.02000 - 0.09000

PASS/FAIL SUMMARY

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

DENSITY CALIPER SHOP CALIBRATION

Tool Name:	SDLT - 11107335	Reference Calibration Date:	01-Oct-12 15:00:09
Engineer:	C. CRADDOCK	Calibration Date:	05-Nov-12 12:26:44
Software Version:	WL INSITE R3.4.4 (Build 2)	Calibration Version:	1
Host Tool Name:	-		

CALIBRATION COEFFICIENTS

Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-2996.44	-3194.12	-7000.00 - -1000.00
Pad Gain	0.0003810	0.0003810	0.000200 - 0.000600
Arm Offset	-2152.91	-2359.26	-5000.00 - 3000.00
Arm Gain	0.0005207	0.0005450	0.000300 - 0.000700
Arm Power	-0.000006136	-0.000007297	-0.000010000 - 0.000010000

The ring diameter is computed from: $\text{DIAMETER} = \text{PAD EXTENSION} + \text{ARM EXTENSION} + \text{TOOL DIAMETER}$

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)	2.08	2.00	-0.08	+/- 0.20
Medium Ring (in)	3.83	3.75	-0.08	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.60	6.50	-0.10	+/- 0.20
Medium Ring (in)	8.29	8.25	-0.04	+/- 0.20
Large Ring (in)	15.01	15.00	-0.01	+/- 0.20

PASS/FAIL SUMMARY

Calibration-Coefficients Range Check:	Passed
Ring-Measurement Check:	Passed

PASS/FAIL SUMMARY

Calibration-Coefficients Range Check:	Passed
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SPECTRAL DENSITY SHOP CALIBRATION

Tool Name:	SDLT Pad - 11045470	Reference Calibration Date:	01-Oct-12 14:12:38
Engineer:	C. CRADDOCK	Calibration Date:	05-Nov-12 12:00:57

Logging Source S/N: 5471GW

Aluminum Block S/N: 63066

Magnesium Block S/N: N/A

Density: 2.602g/cc

Density: 1.691g/cc

Pe: 3.100

Pe: 2.650

DENSITY CALIBRATION SUMMARY

Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0899	1.0743	0.90 - 1.10
Near Dens Gain	1.0379	1.0307	0.90 - 1.10
Near Peak Gain	1.0454	1.0181	0.90 - 1.10
Near Lith Gain	0.9947	0.9685	0.90 - 1.10
Far Bar Gain	1.0123	1.0107	0.90 - 1.10
Far Dens Gain	1.0001	0.9984	0.90 - 1.10
Far Peak Gain	0.9926	0.9921	0.90 - 1.10
Far Lith Gain	0.9723	0.9723	0.90 - 1.10
Near Bar Offset	-0.9189	-0.7619	NONE
Near Dens Offset	-0.3884	-0.3125	NONE
Near Peak Offset	-0.4337	-0.1860	NONE
Near Lith Offset	-0.0206	0.2248	NONE
Far Bar Offset	-0.2122	-0.1906	NONE
Far Dens Offset	-0.1102	-0.0893	NONE
Far Peak Offset	-0.0557	-0.0477	NONE
Far Lith Offset	0.0847	0.0905	NONE
Near Bar Background	1032.89	1028.88	700 - 1450
Near Dens Background	339.18	338.51	230 - 480
Near Peak Background	149.28	148.00	100 - 210
Near Lith Background	180.98	179.37	125 - 260
Far Bar Background	536.94	537.75	450 - 900
Far Dens Background	210.82	209.53	175 - 345
Far Peak Background	81.96	81.84	70 - 140
Far Lith Background	86.09	85.09	75 - 145

CALIBRATION BLOCK SUMMARY

Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.684	1.691	0.007	+/- 0.015
Pe	2.679	2.600	-0.079	+/- 0.150
ALUMINUM				
Density (g/cc)	2.590	2.602	0.012	+/- 0.01500
Pe	3.140	3.059	-0.081	+/- 0.150

TOOL SUMMARY

Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	0.0002	+/- 0.0110	-0.0016	+/- 0.0140
Magnesium Block	-0.0004	+/- 0.0110	0.0001	+/- 0.0140
Aluminum Block	-0.0007	+/- 0.0110	-0.0001	+/- 0.0140
Resolution	9.10	6.00 - 11.50	9.69	6.00 - 11.50
Internal Verifier(B+D+P+L)	1695	1200 - 2700	914	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

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION

Tool Name:	ACRt Sonde - 11294353	Reference Calibration Date:	23-Oct-12 16:25:34
Engineer:	J. PINKETT	Calibration Date:	23-Oct-12 16:37:36
Software Version:	WL INSITE R3.4.4 (Build 2)	Calibration Version:	1
Host Tool Name:	ACRt Instrument - 11302817		

TYPICAL GAIN RANGE

Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.02	1.05	0.95	1.02	1.05	0.95	1.01	1.05
A2 (50")	0.95	1.02	1.05	0.95	1.02	1.05	0.95	1.02	1.05
A3 (29")	0.95	1.02	1.05	0.95	1.02	1.05	0.95	1.02	1.05
A4 (17")	0.95	1.04	1.05	0.95	1.03	1.05	0.95	1.03	1.05
A5 (10")	N/A	N/A	N/A	0.95	1.01	1.05	0.95	1.00	1.05
A6 (6")	N/A	N/A	N/A	0.95	1.04	1.05	0.95	1.03	1.05

TYPICAL SONDE OFFSET RANGE

Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	-5	-0.31	2	-6	-4.52	-2	-8	-5.14	-2
A2 (50")	-7	-0.34	0	-7	-2.77	0	-7	-4.81	0
A3 (29")	-27	-12.70	-9	-9	-3.51	-3	-7	-3.61	-1
A4 (17")	-180	-92.88	-60	-45	-28.87	-15	-39	-24.56	-13
A5 (10")	N/A	N/A	N/A	-150	-98.92	-50	-80	-47.35	-10
A6 (6")	N/A	N/A	N/A	175	358.61	525	90	181.23	270

TRANSMITTER CURRENT GAIN

Signal	Lower	R	Upper
12K	0.6	0.92	1.3
36K	1.0	1.83	2.0
72K	1.0	1.16	2.0

R-MUD VERIFICATION

Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
Mud Cell	0.95	1.00	1.05

PASS/FAIL SUMMARY	
GAIN RANGE CHK	PASS
SONDE OFFSET RANGE CHK	PASS
Tx CURRENT GAIN	PASS
Rmud VERIFICATION	PASS

TOOL OK TO LOG

CALIBRATION SUMMARY

CALIBRATION SUMMARY

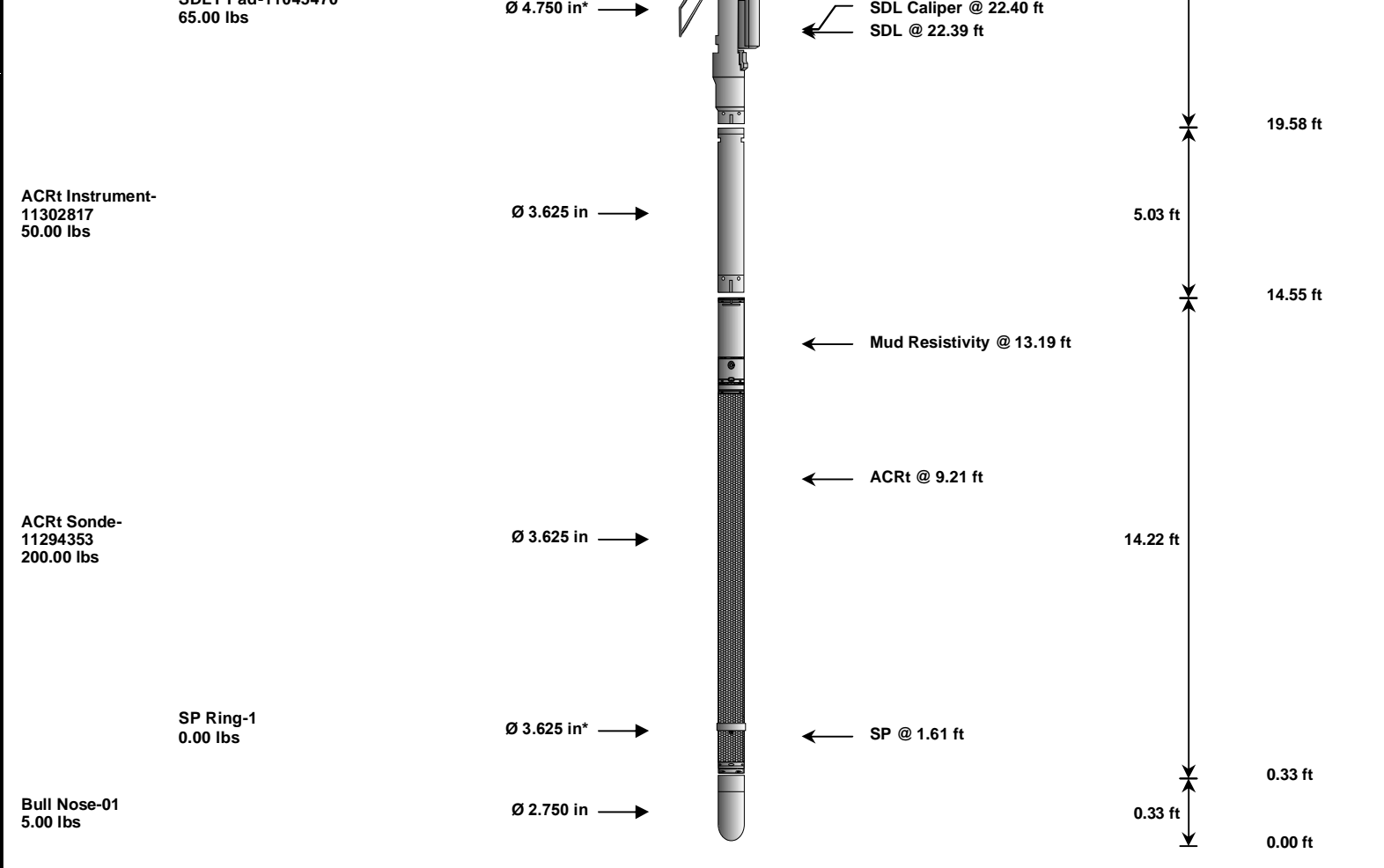
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11812883						
Gamma Ray Calibrator	247.3	254.6	-----	-7.3	+/- 9.00	api
DSNT-11301132						
Snow-Block Porosity	0.0838	-----	-----	0.0000	+/- -.--	decp
SDLT-11107335						
Pad Extension	3.75	-----	-----	0.00	+/-0.20	in
Ring Diameter	8.25	-----	-----	0.00	+/-0.20	in
SDLT Pad-11045470						
Near(B+D+P+L)	1694.760	-----	-----	0.000	+/-14.445	cps
Far(B+D+P+L)	914.202	-----	-----	0.000	+/-14.875	cps
ACRt Sonde-11294353						
Mud Cell	1.00	-----	-----	0.00	-----	ohm-m

Data: BOOTH_30-23\0002 BAYSWATER\IDLE	Date: 10-Nov-12 22:54:43
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HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
RWCH-B097 135.00 lbs		Ø 3.625 in →		← Load Cell @ 51.17 ft ← BH Temperature @ 50.60 ft	6.25 ft	54.85 ft
GTET-11812883 165.00 lbs		Ø 3.625 in →		← GammaRay @ 42.54 ft	8.52 ft	48.60 ft
DSNT-11301132 174.00 lbs		Ø 3.625 in →		← DSN Far @ 33.15 ft ← DSN Near @ 32.40 ft	9.69 ft	40.08 ft
SDLT-11107335 360.00 lbs		Ø 4.500 in →			10.81 ft	30.40 ft
SDLT Pad-11045470						



Mnemonic			Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
RWCH	Releasable Wireline Cable Head			B097	135.00	6.25	48.60	300.00
GTET	Gamma Telemetry Tool			11812883	165.00	8.52	40.08	60.00
DSNT	Dual Spaced Neutron			11301132	174.00	9.69	30.40	60.00
SDLT	Spectral Density Tool			11107335	360.00	10.81	19.58	60.00
SDLP	Density Insite Pad			11045470	65.00	2.55 *	21.79	60.00
ACRt	Array Compensated True Resistivity Instrument Section			11302817	50.00	5.03	14.55	300.00
ACRt	Array Compensated True Resistivity Sonde Section			11294353	200.00	14.22	0.33	300.00
SP	SP Ring			1	0.00	0.25 *	1.61	300.00
BLNS	Bull Nose			01	5.00	0.33	0.00	300.00
Total					1,154.00	54.85		
* Not included in Total Length and Length Accumulation.								
Data: BOOTH_30-23\0001 BAYSWATER\IDLE								
Date: 10-Nov-12 20:45:46								

COMPANY	BAYSWATER EXPLORATION AND PRODUCTION		
WELL	BOOTH 30-23		
FIELD	WATTENBERG		
COUNTY	WELD	STATE	CO
HALLIBURTON		ARRAY COMPENSATED TRUE RESISTIVITY SPECTRAL DENSITY DUAL SPACED NEUTRON	