

HALLIBURTON

DUAL SPACED NEUTRON
SPECTRAL DENSITY
ARRAY COMPENSATED
TRUE RESISTIVITY

COMPANY		WELL		FIELD/BLOCK		COUNTY		STATE	
BAYSWATER EXPLORATION & PRODUCTION		WINTER 8-29		WATTENBERG		WELD		CO	
COMPANY		WELL		FIELD/BLOCK		COUNTY		STATE	
BAYSWATER EXPLORATION & PRODUCTION		WINTER 8-29		WATTENBERG		WELD		CO	
API No.		05123376080000		Location		SHL: 160' FNL & 771 FEL NENE BHL: 1992' FNL & 683 FEL NENE LATITUDE: 40.552116 LONGITUDE: -104.910616		Other Services: RWCH	
Sect.		29		Twp.		7N		Rge. 67W	
Permanent Datum		GL		Elev. 4973.0 ft		Elev.: K.B.		4986.0 ft	
Log measured from		KB		13.0 ft above perm. Datum		D.F.		4986.0 ft	
Drilling measured from		KB				G.L.		4973.0 ft	
Date		30-Dec-13							
Run No.		ONE							
Depth - Driller		7805.00 ft							
Depth - Logger		7805.0 ft							
Bottom - Logged Interval		7803 ft							
Top - Logged Interval		CASING							
Casing - Driller		8.625 in @ 790.0 ft							
Casing - Logger		791.0 ft							
Bit Size		8.875 in							
Type Fluid in Hole		WATER BASED MUD							
Density		9.5 ppg		68.00 s/qt					
PH		8.50 pH		8.8 cphm					
Source of Sample		MUD CELL							
Rm @ Meas. Temperature		1.170 ohmm @ 75.00 degF							
Rmf @ Meas. Temperature		1.00 ohmm @ 75.00 degF							
Rmc @ Meas. Temperature		1.043 ohmm @ 75.00 degF							
Source Rmf		CHART		CHART					
Rm @ BHT		0.50 ohmm @ 186.0 degF							
Time Since Circulation		7.0 hr							
Time on Bottom		30-Dec-13 21:02							
Max. Rec. Temperature		186.0 degF @ 7805.0 ft							
Equipment		11454566		BRIGHTON					
Recorded By		J. SCHMIDT							
Witnessed By		R. CARNEY		D. PATTON					

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Service Ticket No.: N/A				API Serial No.: 05123376080000				PGM Version: WL INSITE R3.8.12 (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		ADJ		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.		11795867		Serial No.		11812167	
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.		5471GW		Serial No.		DSN 434	
Distance to Source		10'		FWDA [Y/N]				Strength		1.78 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	7647	REC	0	200				20	0	2.68	20	0	SAND
ONE	7647	7312	REC	0	200				20	0	2.71	20	0	LIME
ONE	7312	CSG	REC	0	200				20	0	2.68	20	0	SAND
DIRECTIONAL INFORMATION														
Maximum Deviation @								KOP @						
Remarks: RWCH/GTET/DSNT/SDLT/ACRT RAN IN COMBINATION														
TENSION PULLS, WASHOUTS, AND BOREHOLE RUGOSITY CAN AFFECT TOOL RESPONSE														
ANNULAR HOLE VOLUME CALCULATED FOR 4.5-INCH CASING														
TOOLS RAN SLICK AT CUSTOMER REQUEST														
CASING DEPTH FROM DOWNLOG AT CUSTOMER REQUEST														
YOUR CREW: A. AXE, B. RIEDEL								RIG: ENSIGN 122						
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES - BRIGHTON, CO - (303) 655-4700														
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														

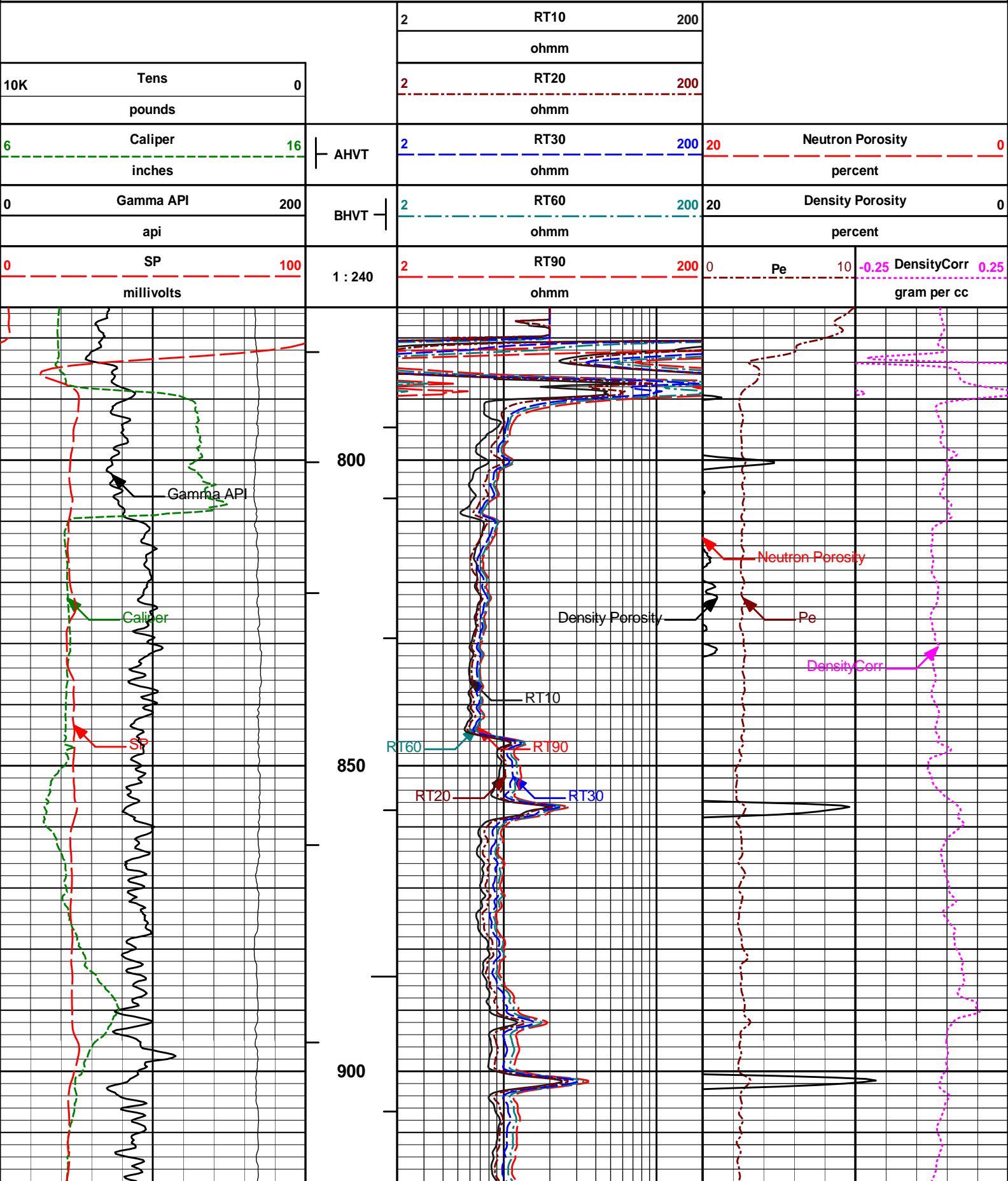
HALLIBURTON

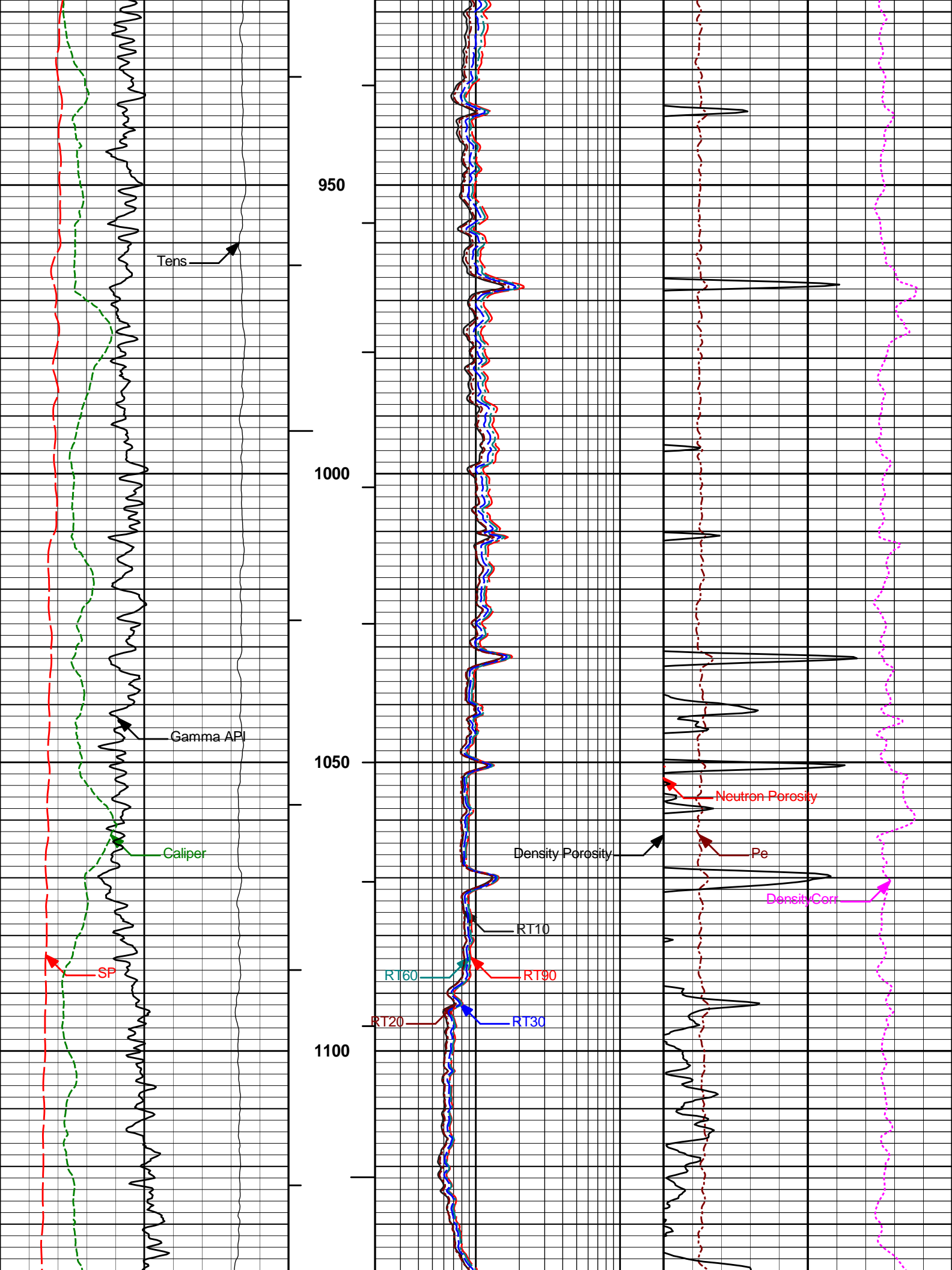
PARAMETERS REPORT

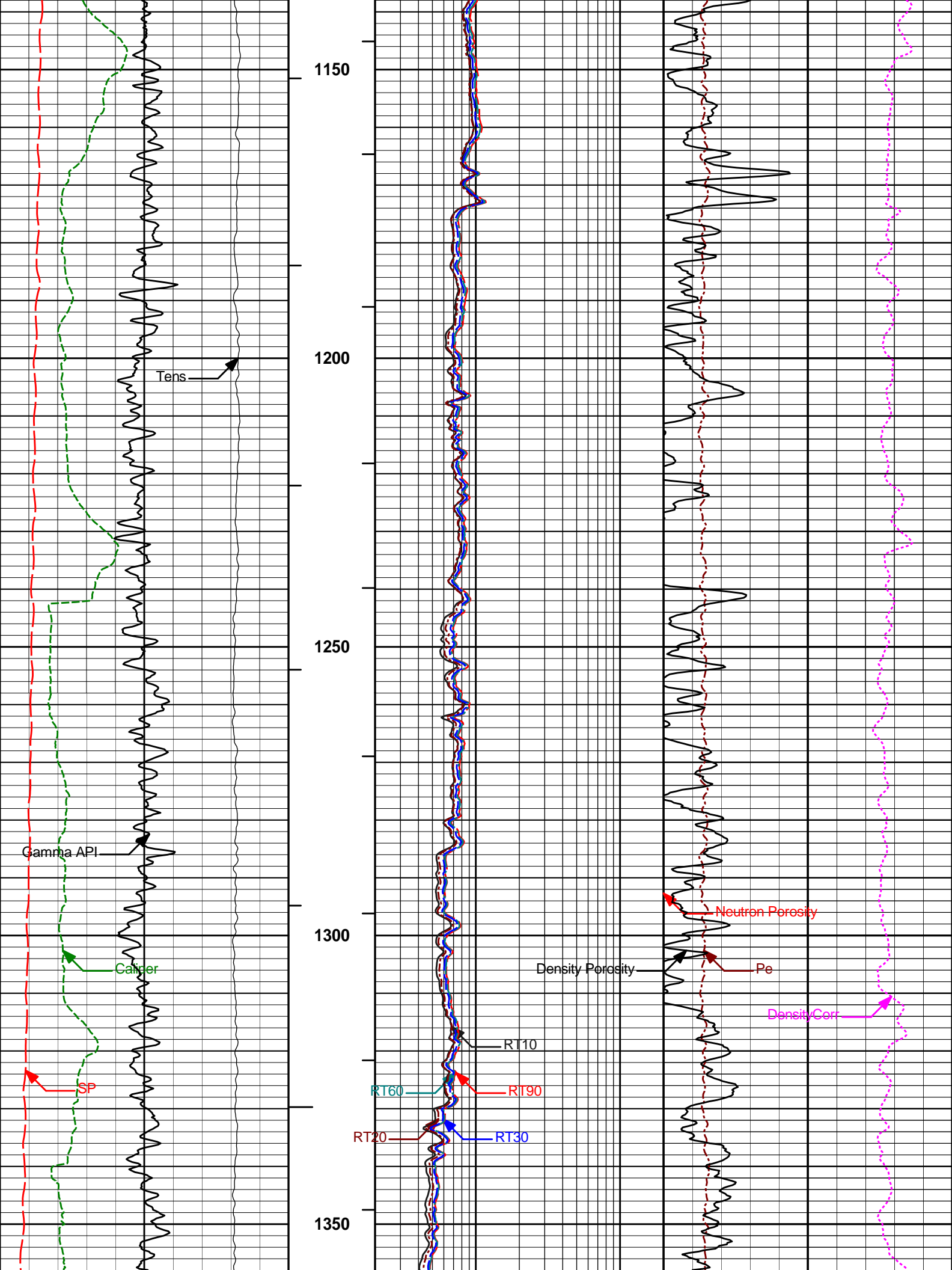
Depth (ft)	Tool Name	Mnemonic	Description	Value	Units
TOP					
	DSNT	NLIT	Neutron Lithology	Sandstone	
	SDLT Pad	DMA	Formation Density Matrix	2.680	g/cc
7312.00					
	DSNT	NLIT	Neutron Lithology	Limestone	
	SDLT Pad	DMA	Formation Density Matrix	2.710	g/cc
7647.00					
	SHARED	BS	Bit Size	7.875	in
	SHARED	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	Barite	
	SHARED	BSAL	Borehole salinity	1500.00	ppm
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%
	SHARED	RMUD	Mud Resistivity	1.170	ohmm
	SHARED	TRM	Temperature of Mud	75.0	degF
	SHARED	CSD	Logging Interval is Cased?	No	
	SHARED	ICOD	AHV Casing OD	4.500	in
	SHARED	ST	Surface Temperature	75.0	degF
	SHARED	TD	Total Well Depth	7805.00	ft
	SHARED	BHT	Bottom Hole Temperature	186.0	degF
	SHARED	SVTM	Navigation and Survey Master Tool	NONE	

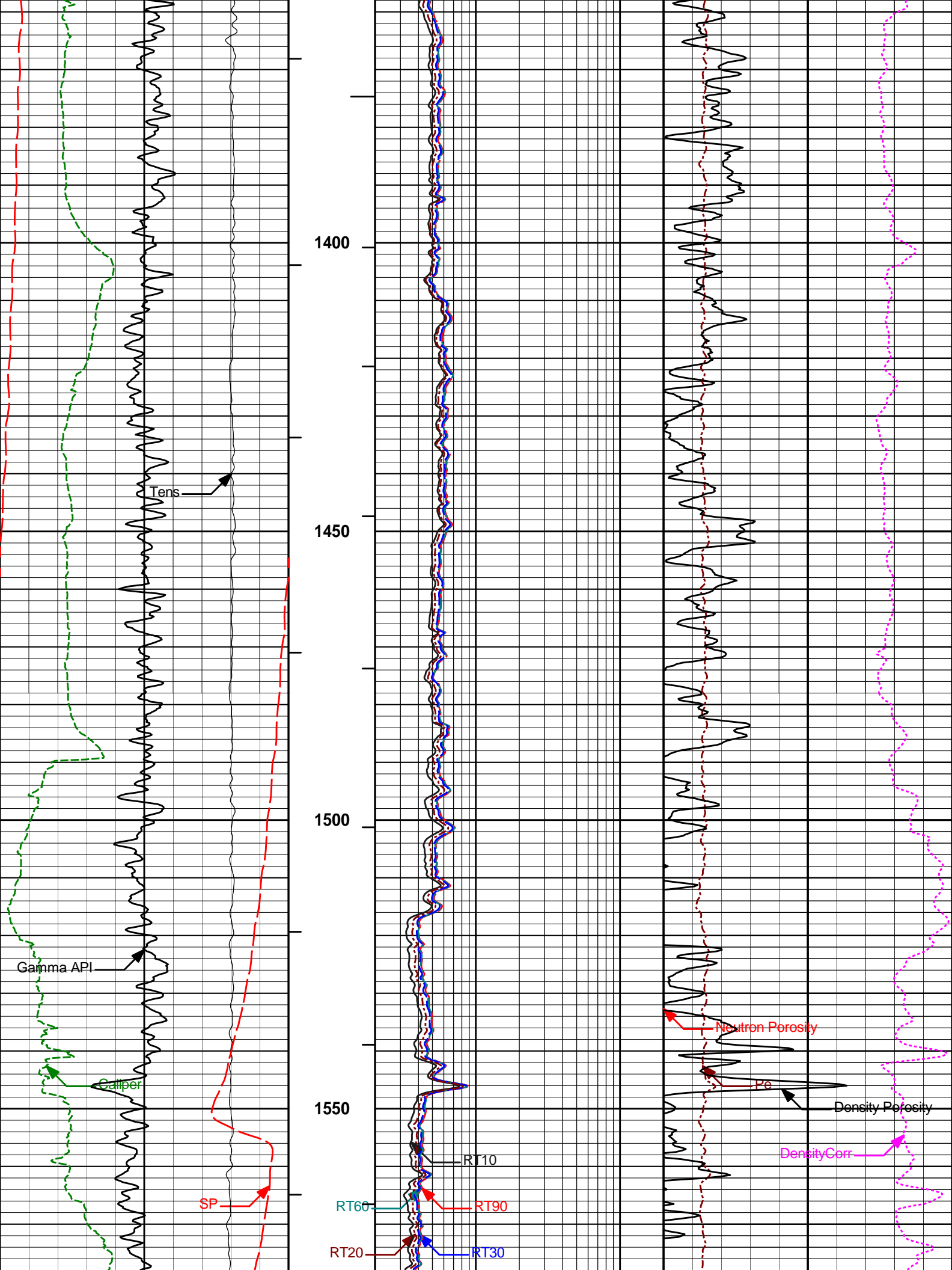
SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET	
SHARED	TEMM	Temperature Master Tool	NONE	
SHARED	BHSM	Borehole Size Master Tool	NONE	
Rwa / CrossPlot	XPOK	Process Crossplot?	Yes	
Rwa / CrossPlot	FCHO	Select Source of F	Automatic	
Rwa / CrossPlot	AFAC	Archie A factor	0.6200	
Rwa / CrossPlot	MFAC	Archie M factor	2.1500	
Rwa / CrossPlot	RMFR	Rmf Reference	0.10	ohmm
Rwa / CrossPlot	TMFR	Rmf Ref Temp	75.00	degF
Rwa / CrossPlot	RWA	Resistivity of Formation Water	0.05	ohmm
Rwa / CrossPlot	ADP	Use Air Porosity to calculate CrossplotPhi	No	
SimpleLithology	RMF	Mud Filtrate Resistivity	0.10	ohmm
SimpleLithology	RMFT	Temperature of Mud Filtrate	175.00	degF
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	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	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	0.50	in
ACRt Sonde	TCS1	Temperature Correction Source	FP Lwr & FP Up	
ACRt Sonde	TPOS	Tool Position	Eccentered	
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

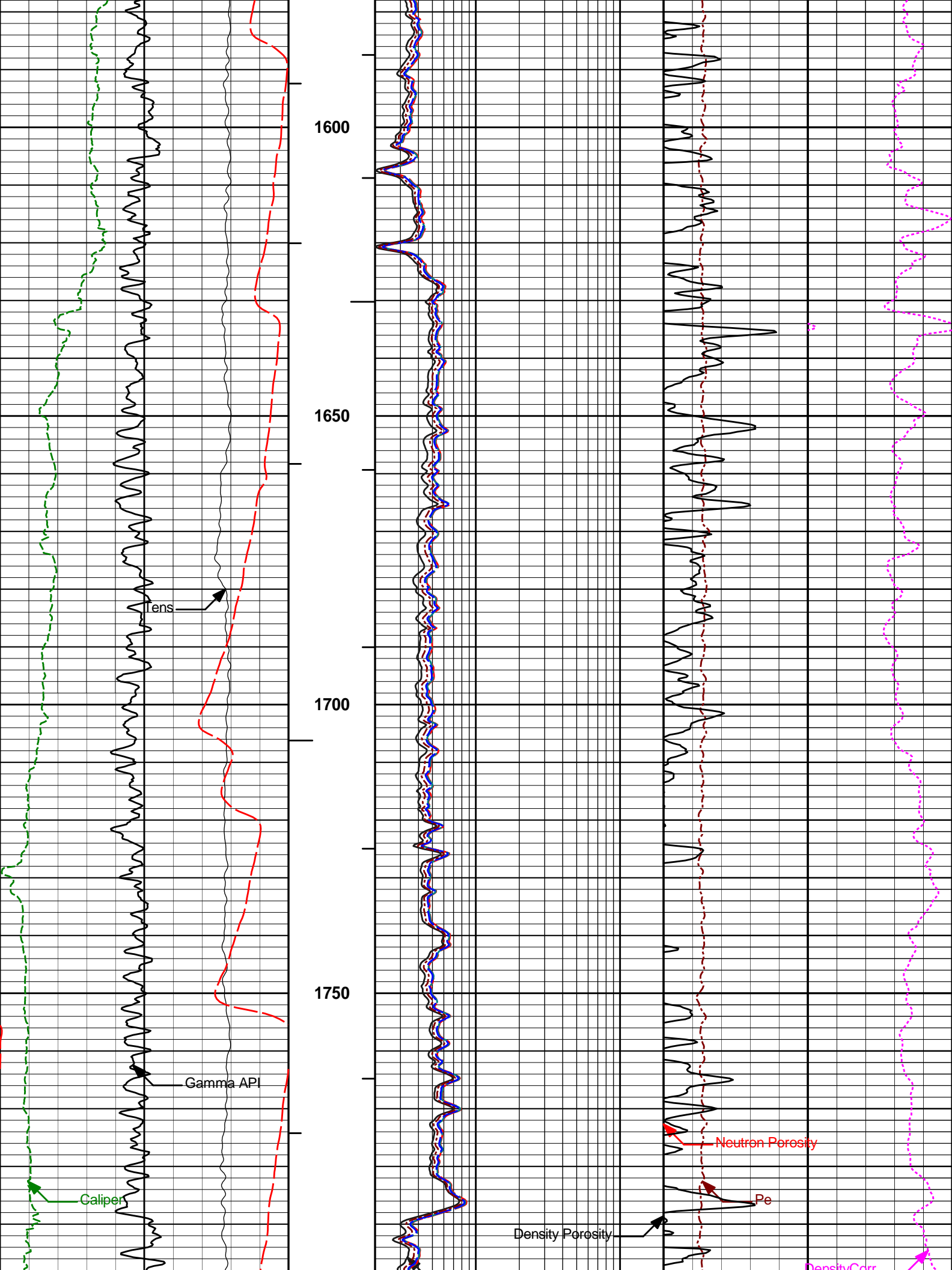
BOTTOM

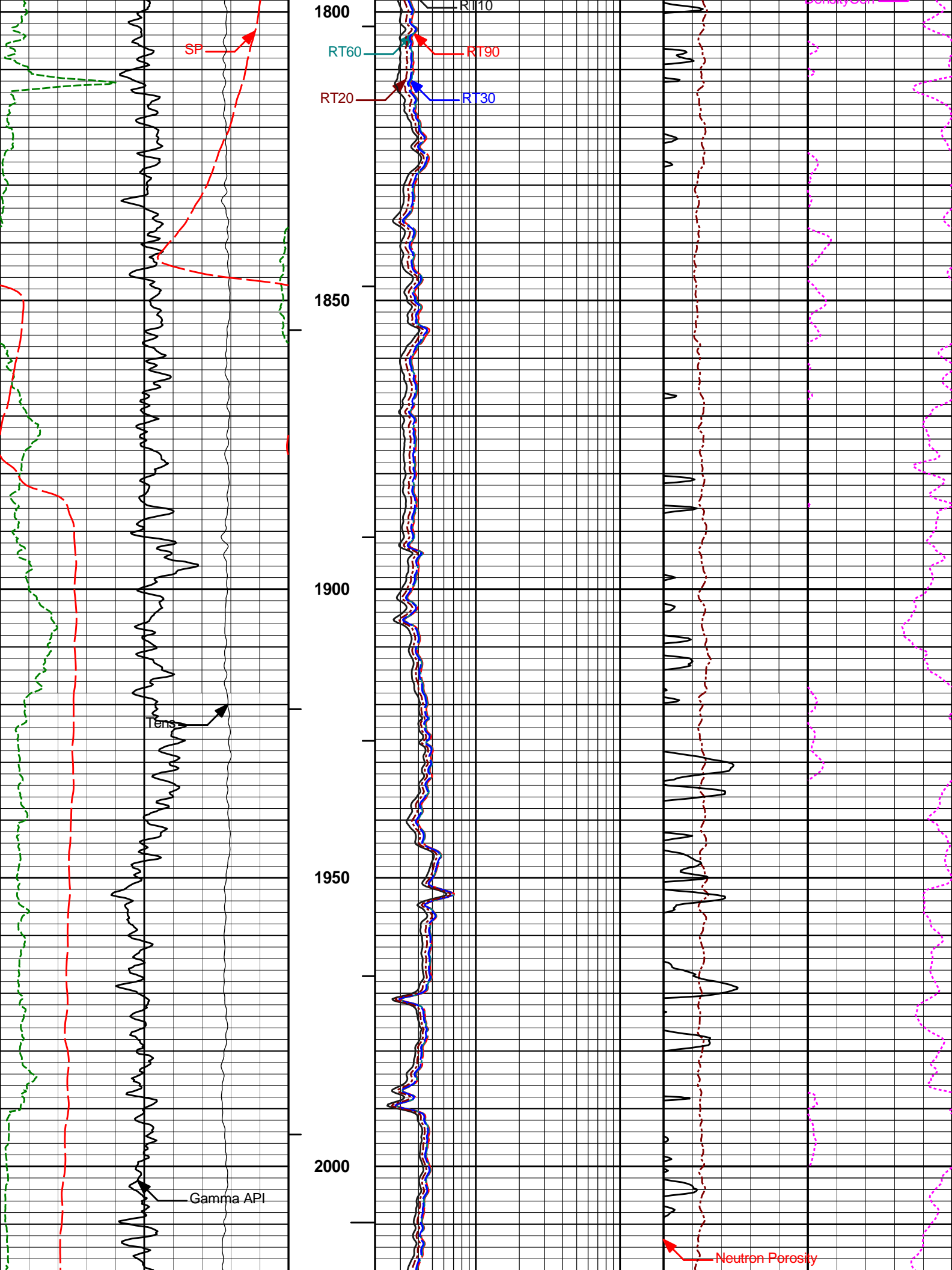


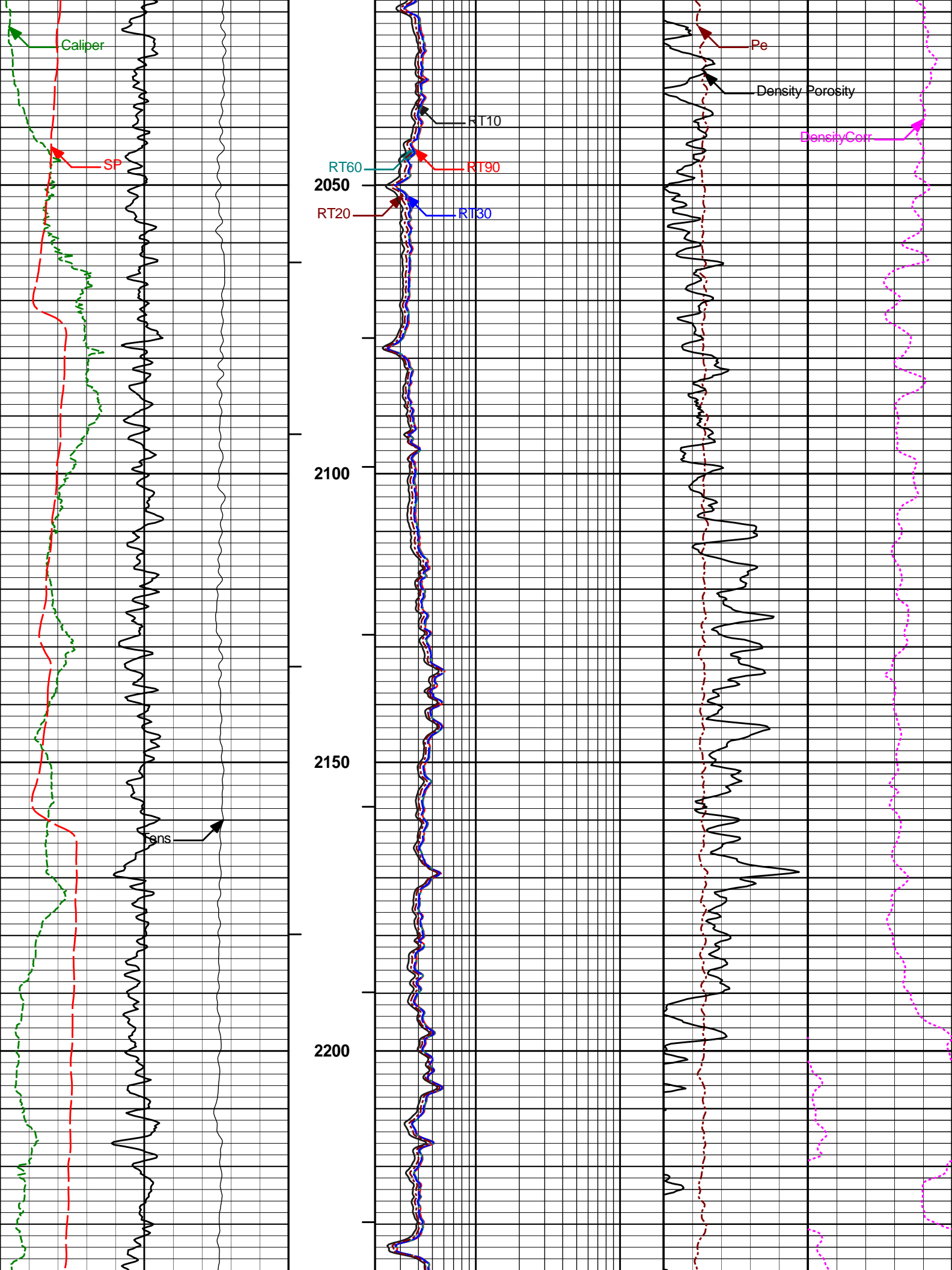


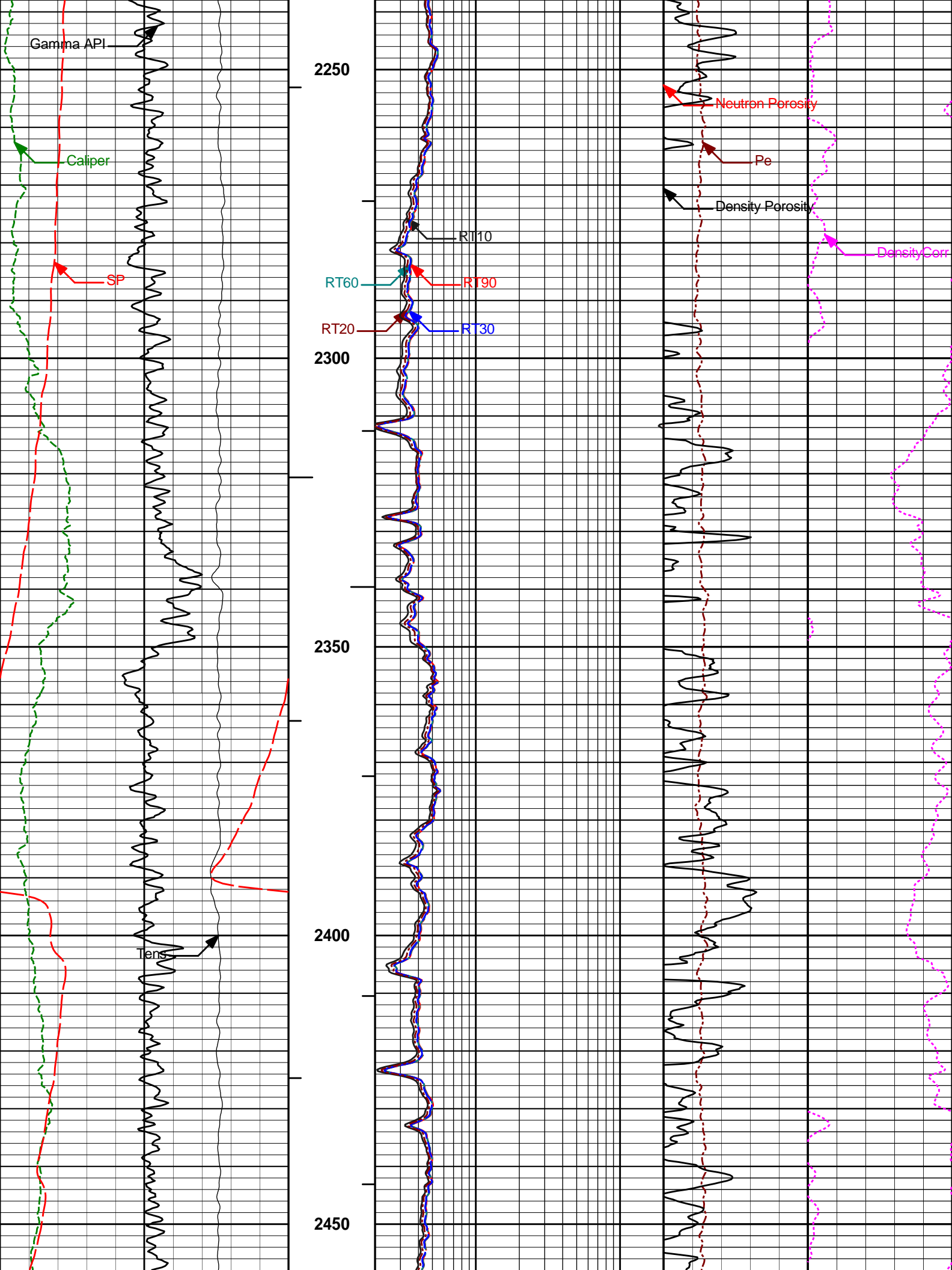


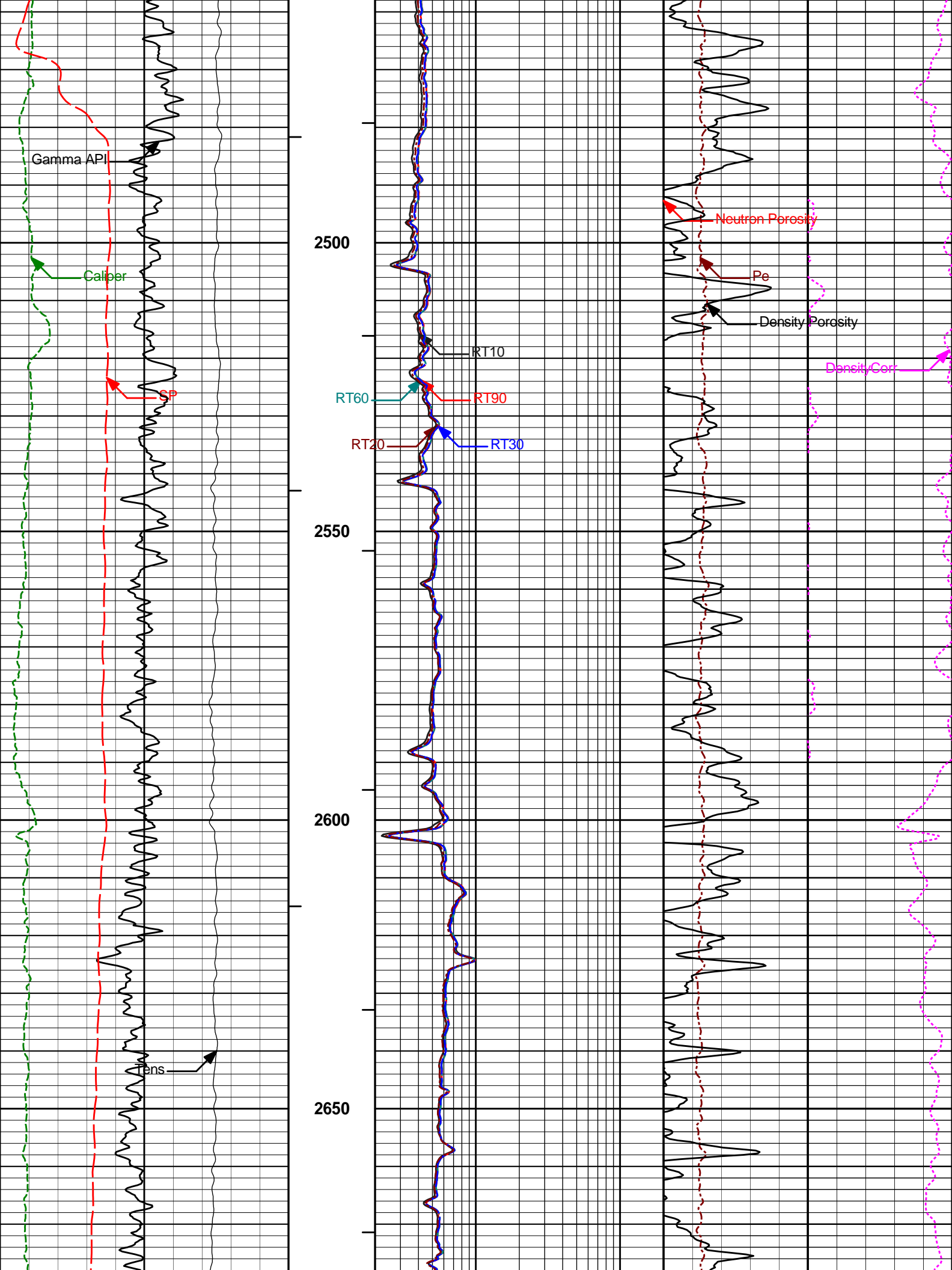


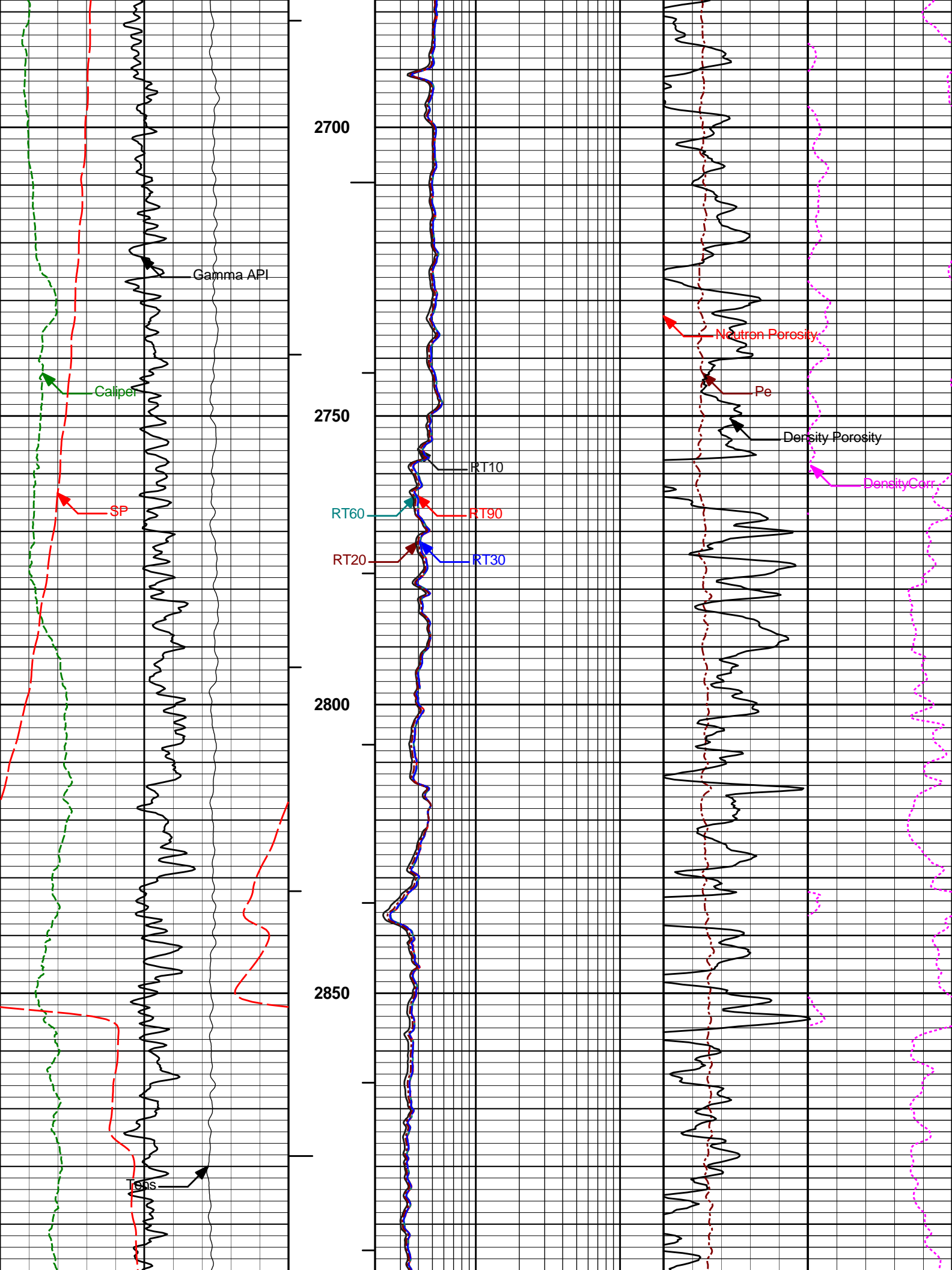


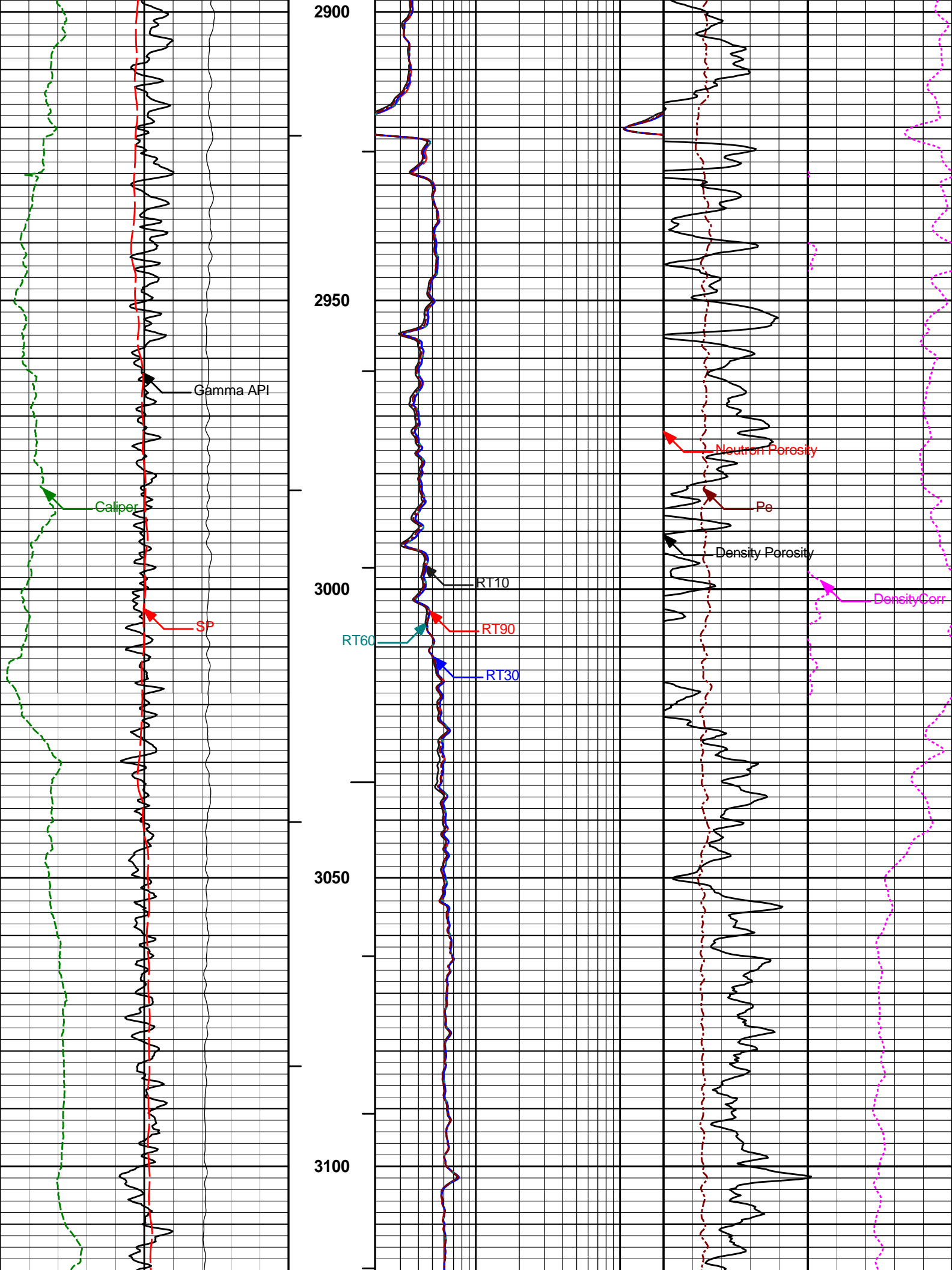


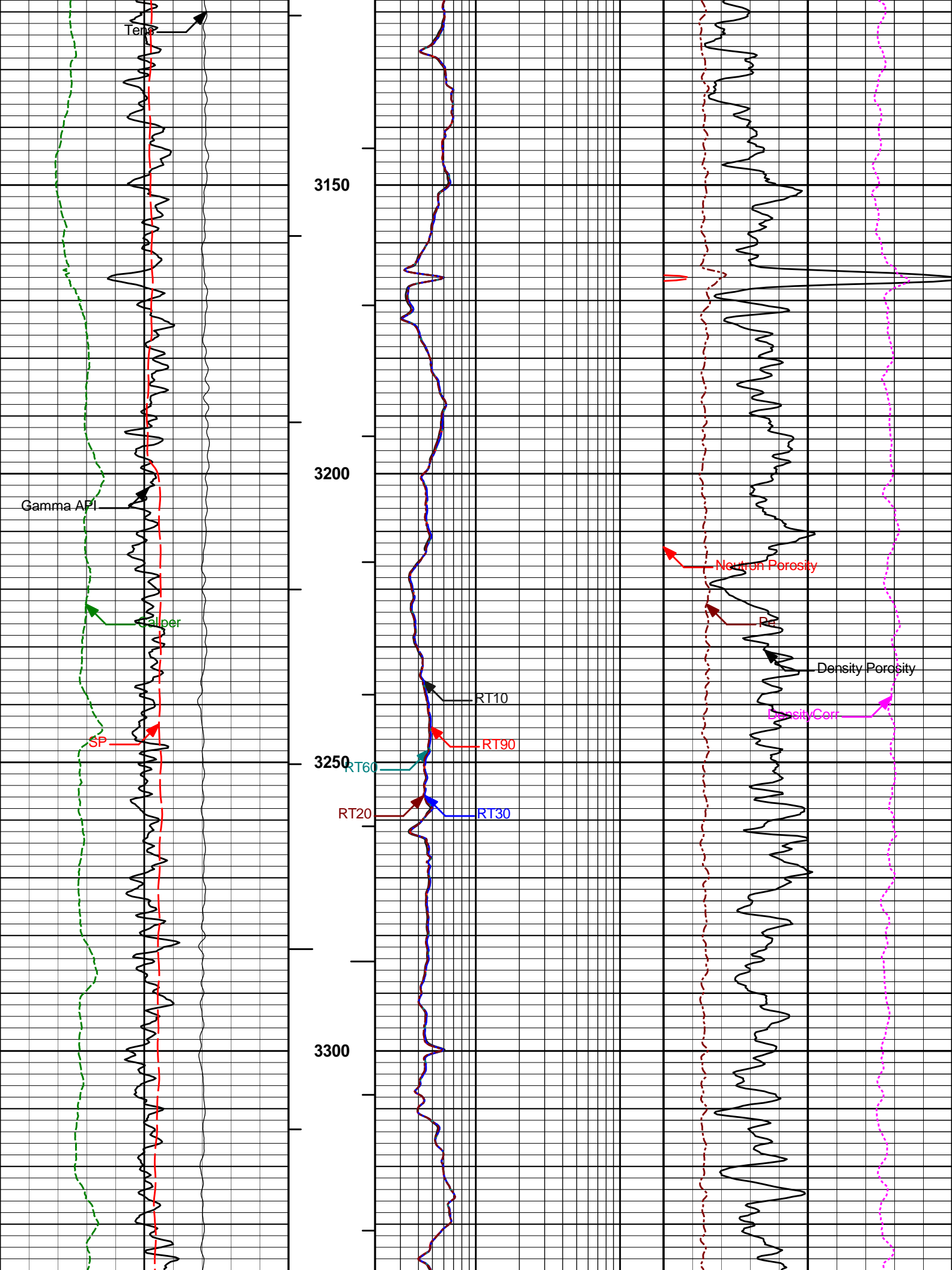


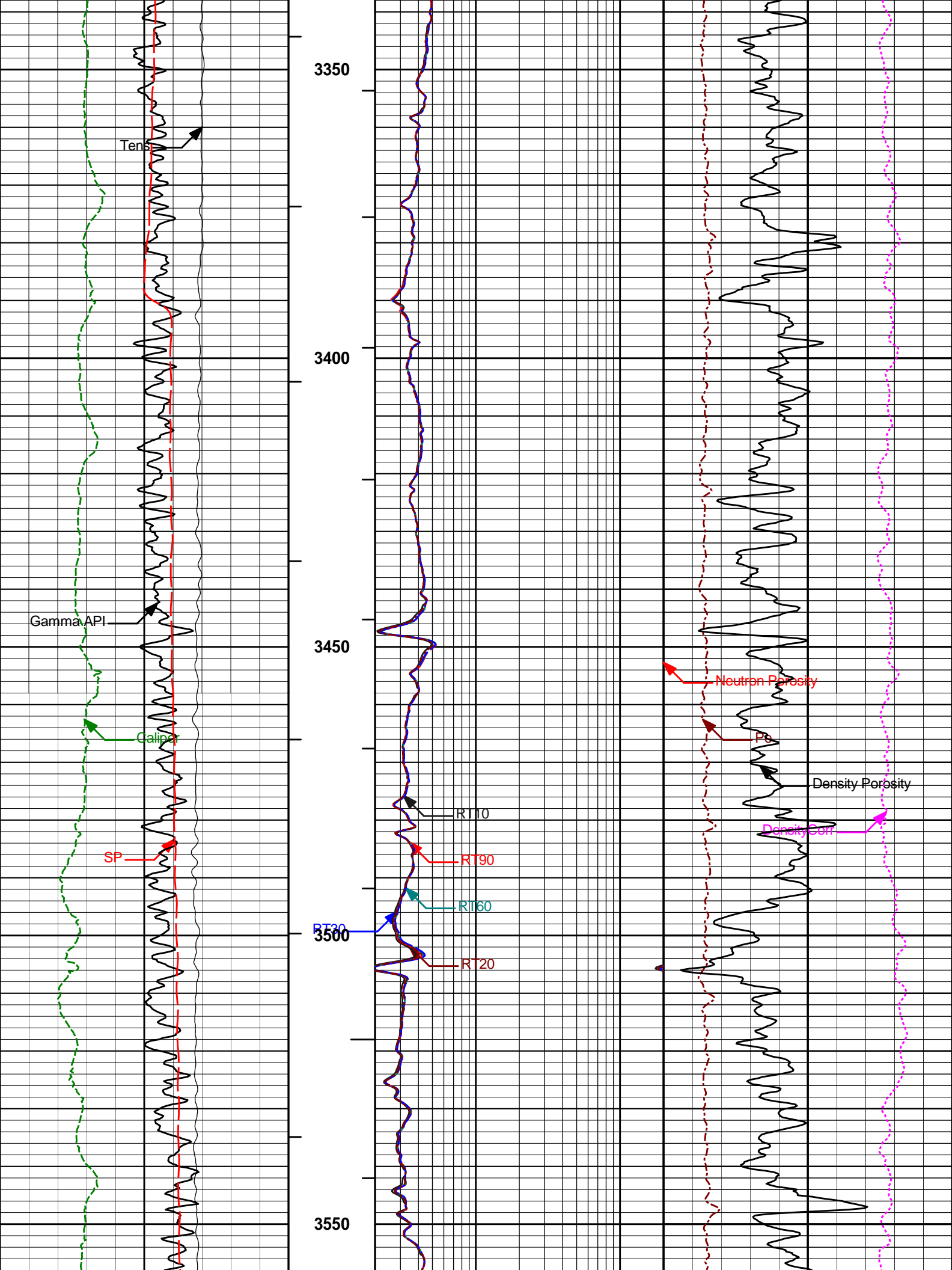


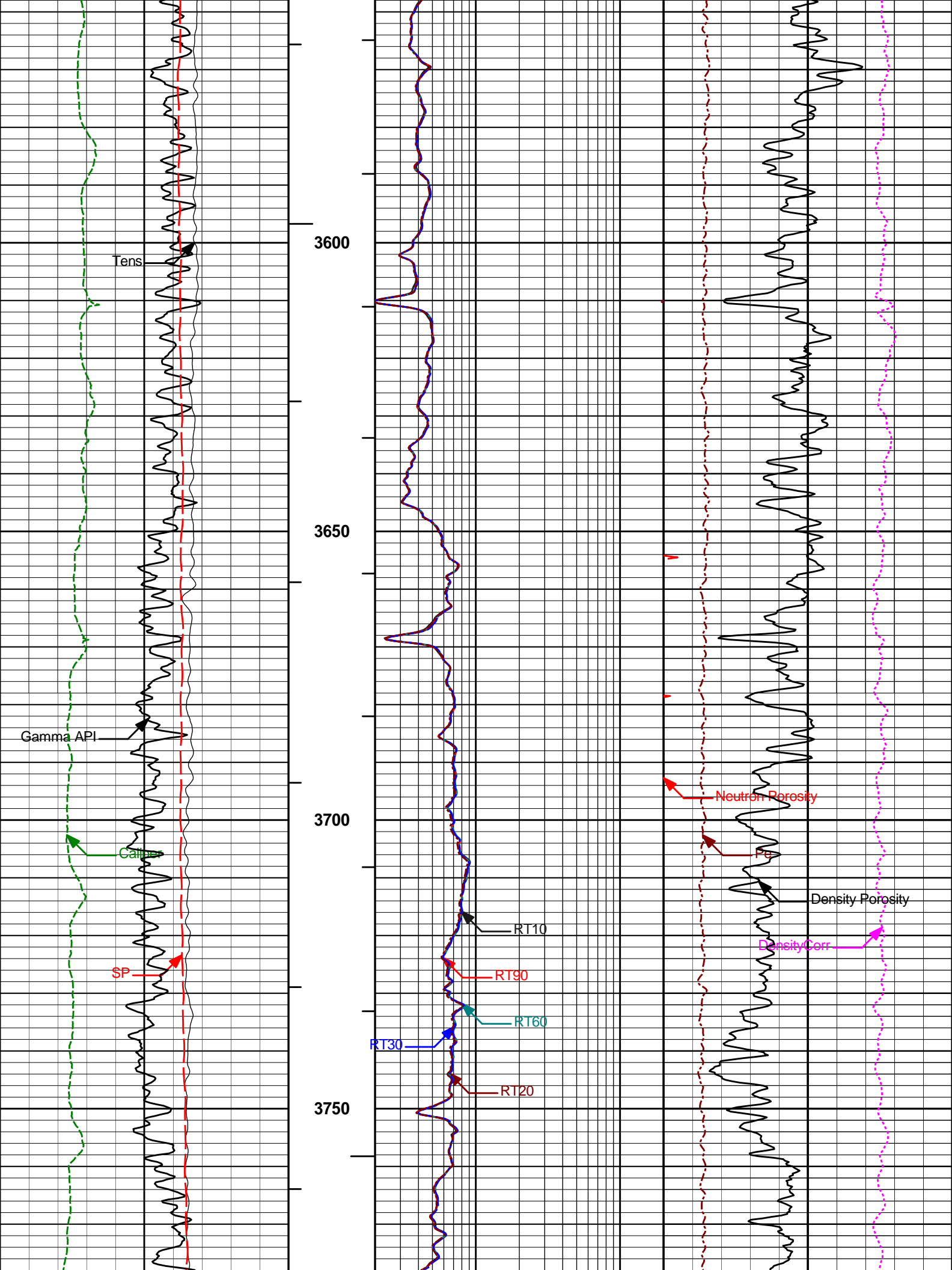


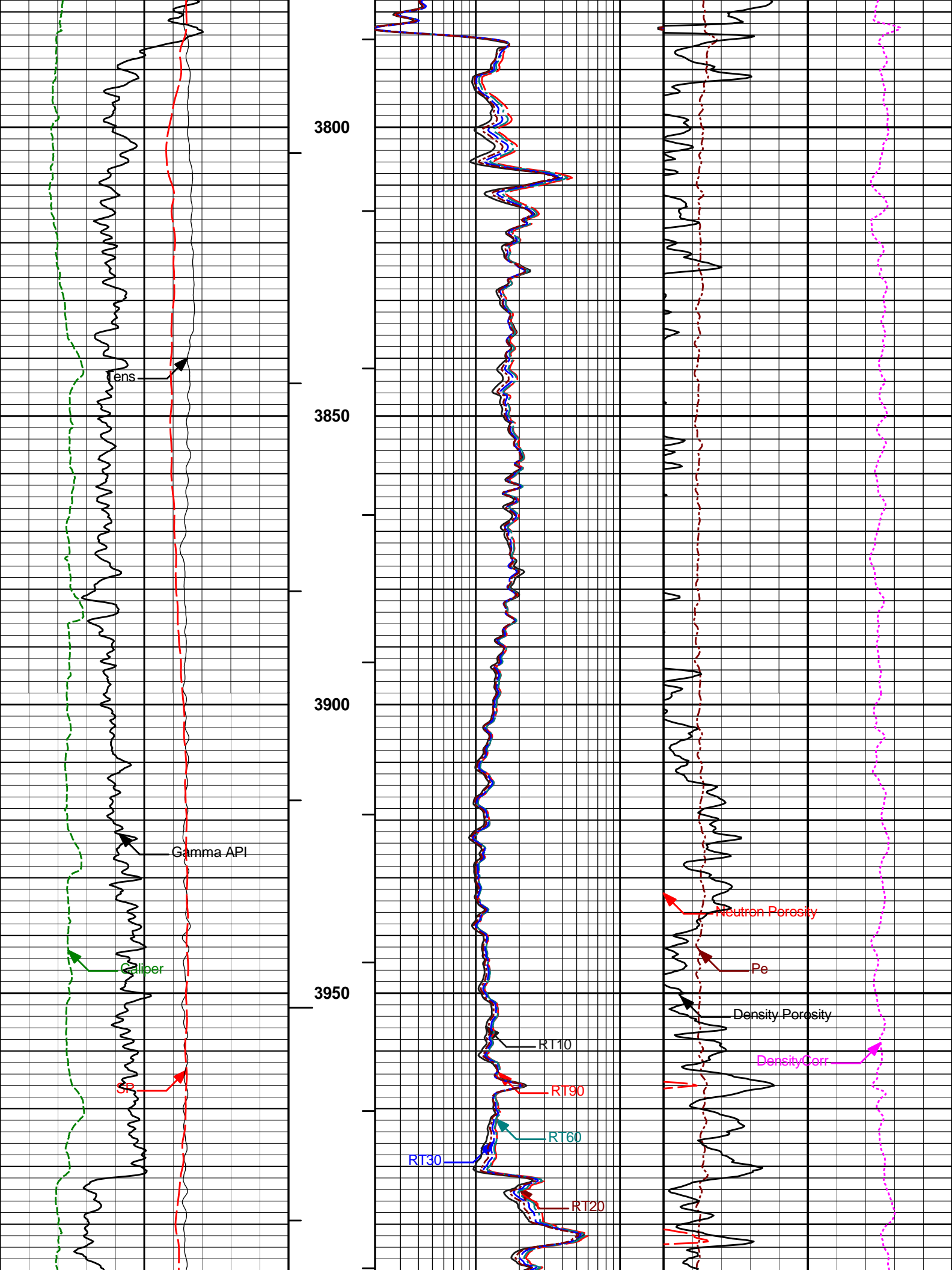


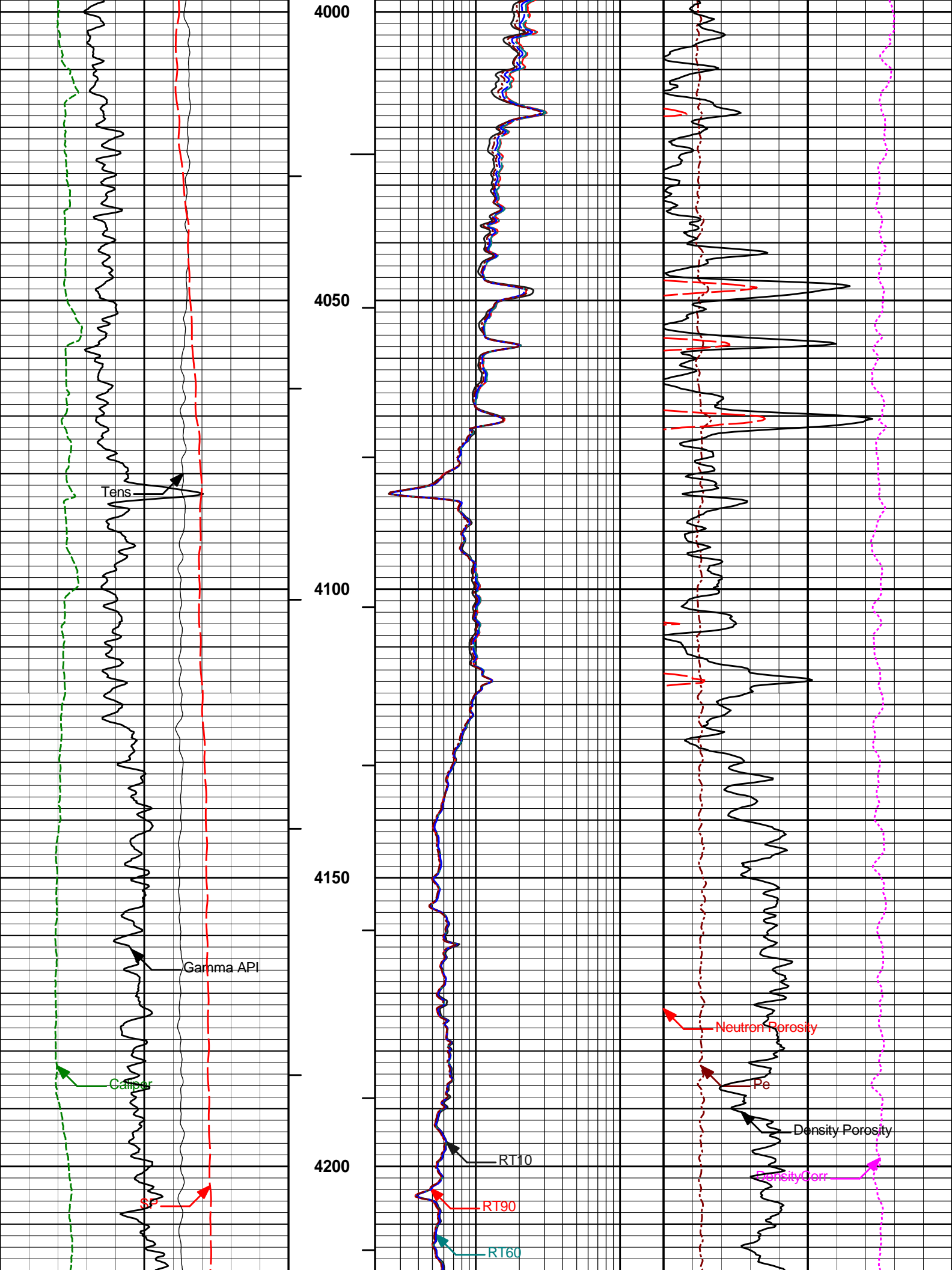


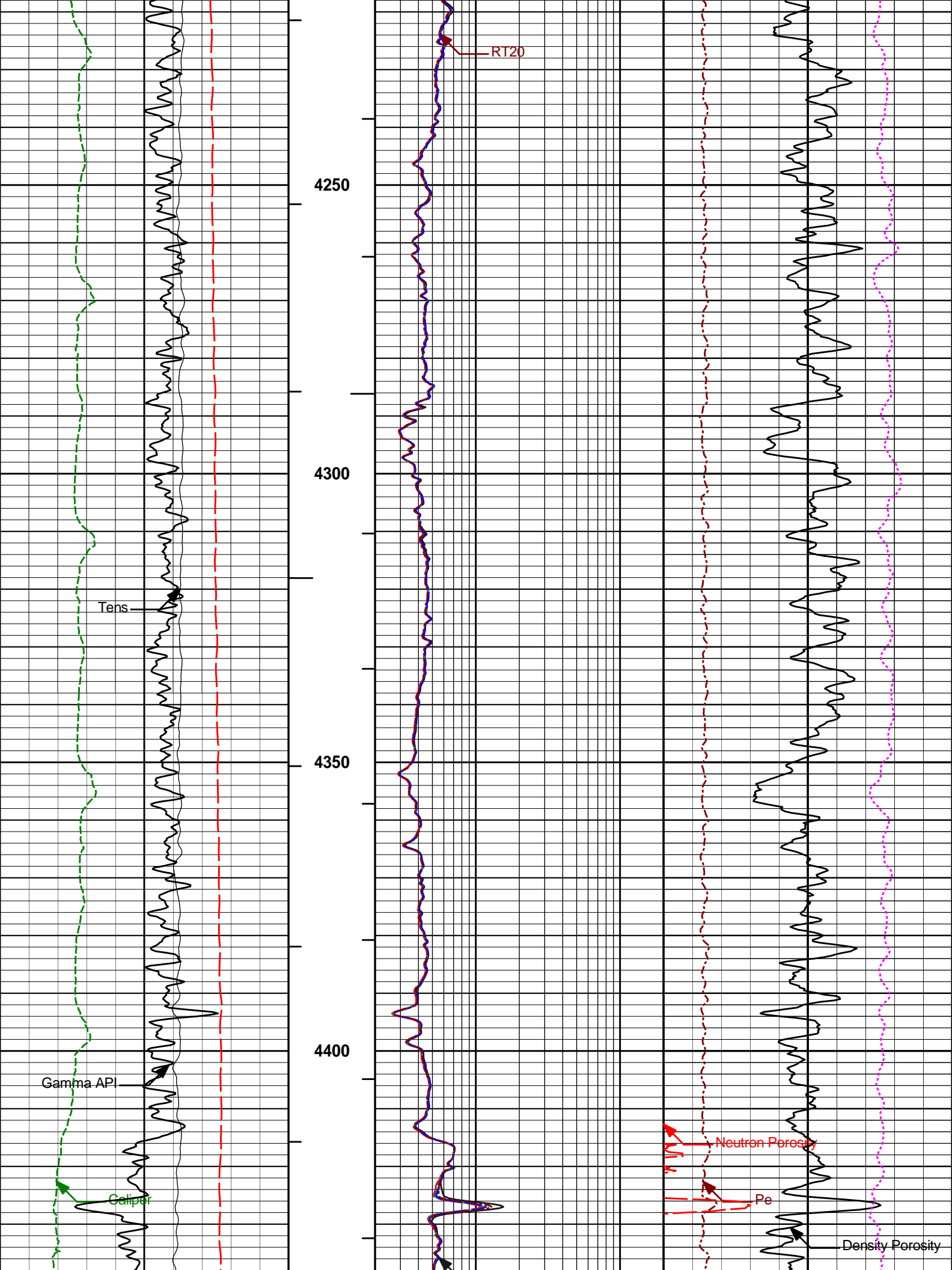


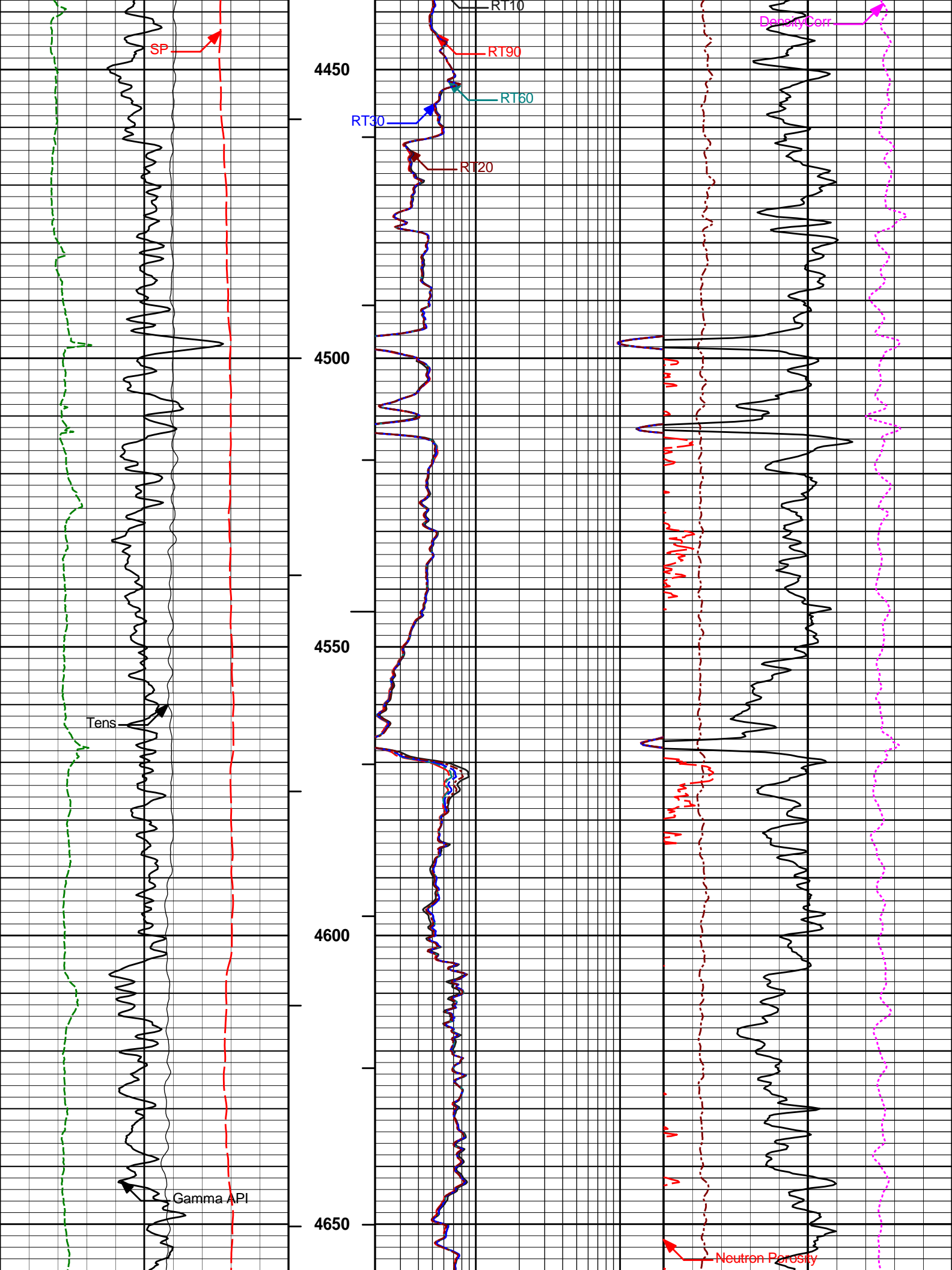


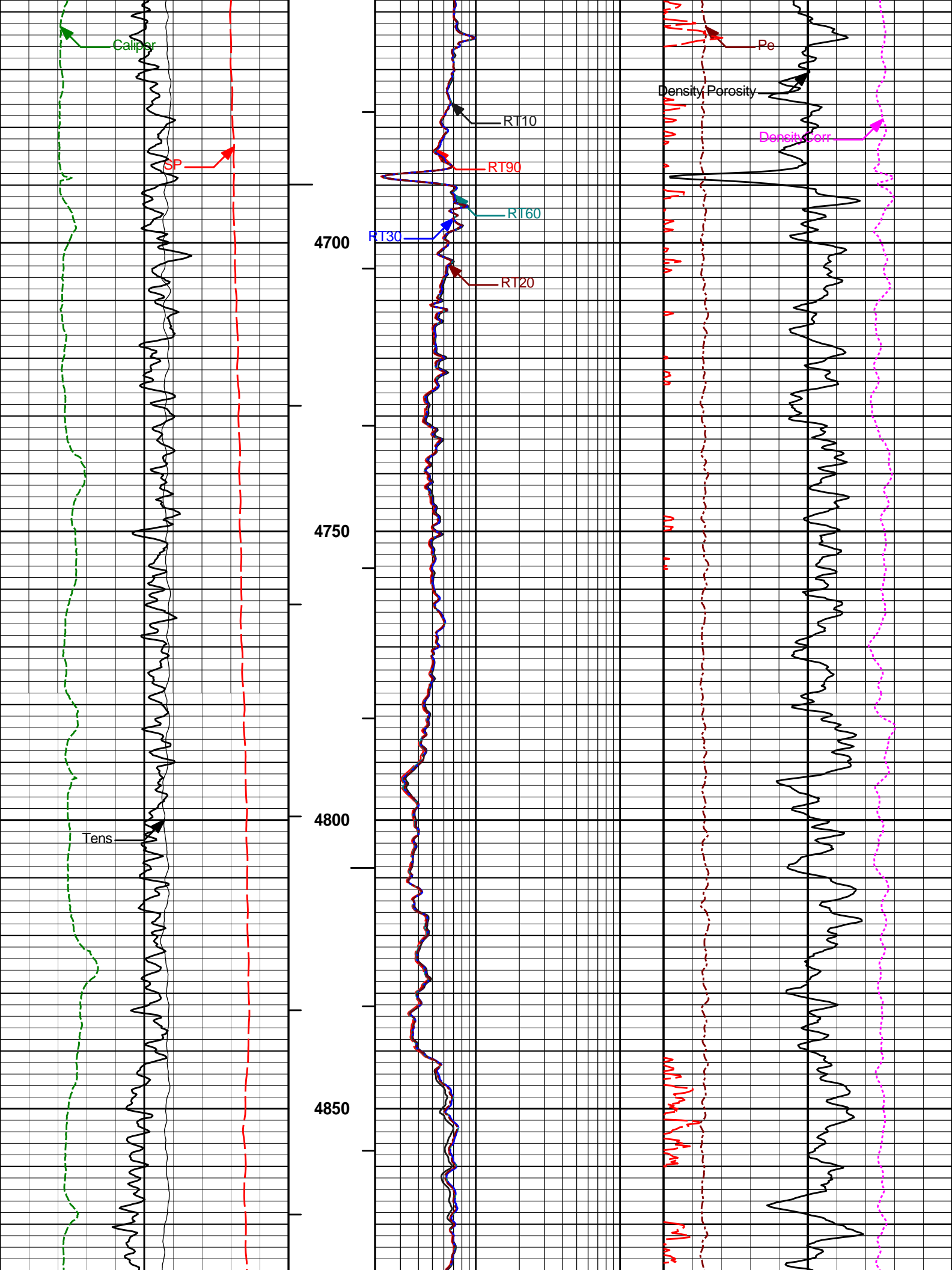


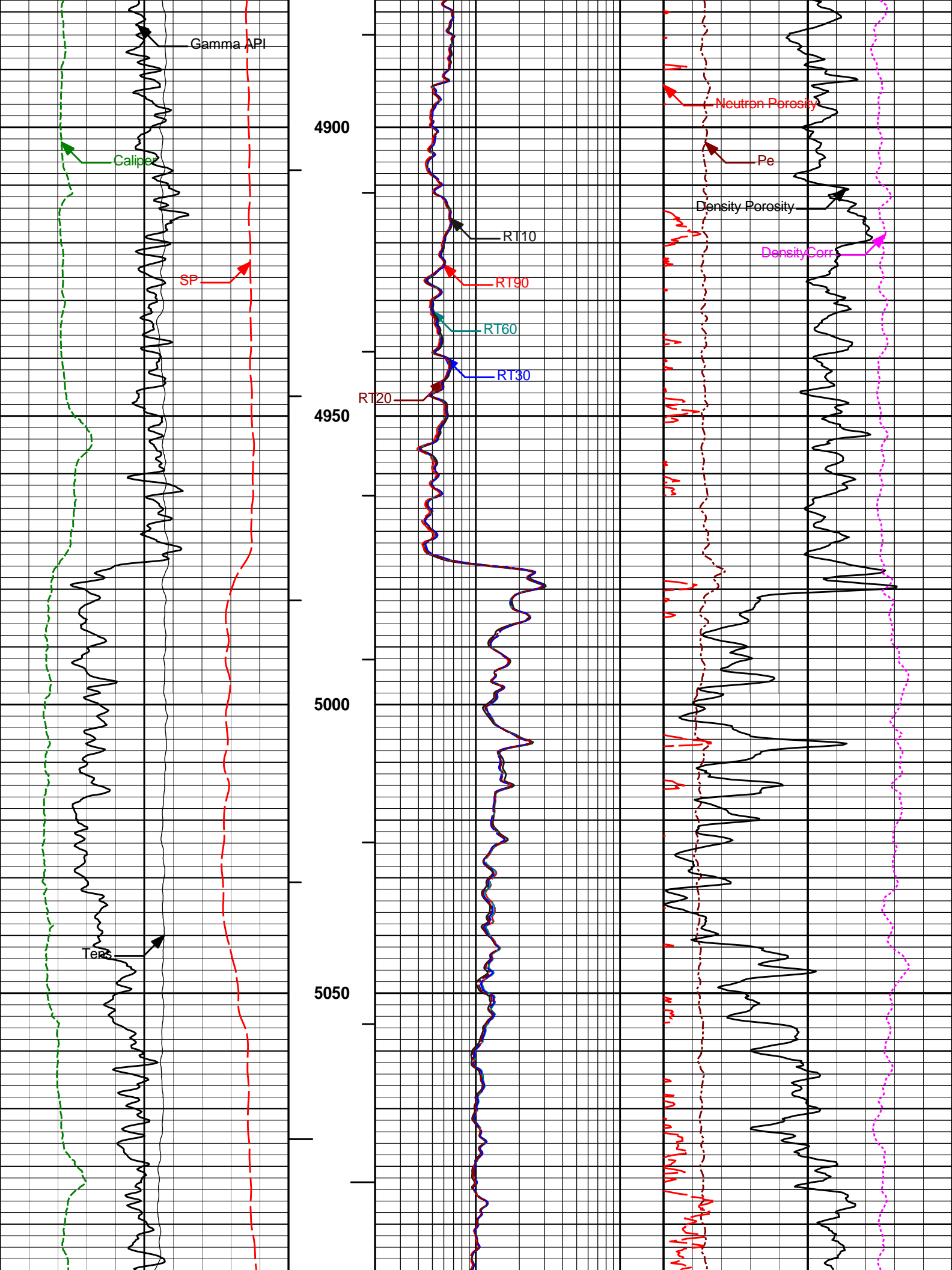


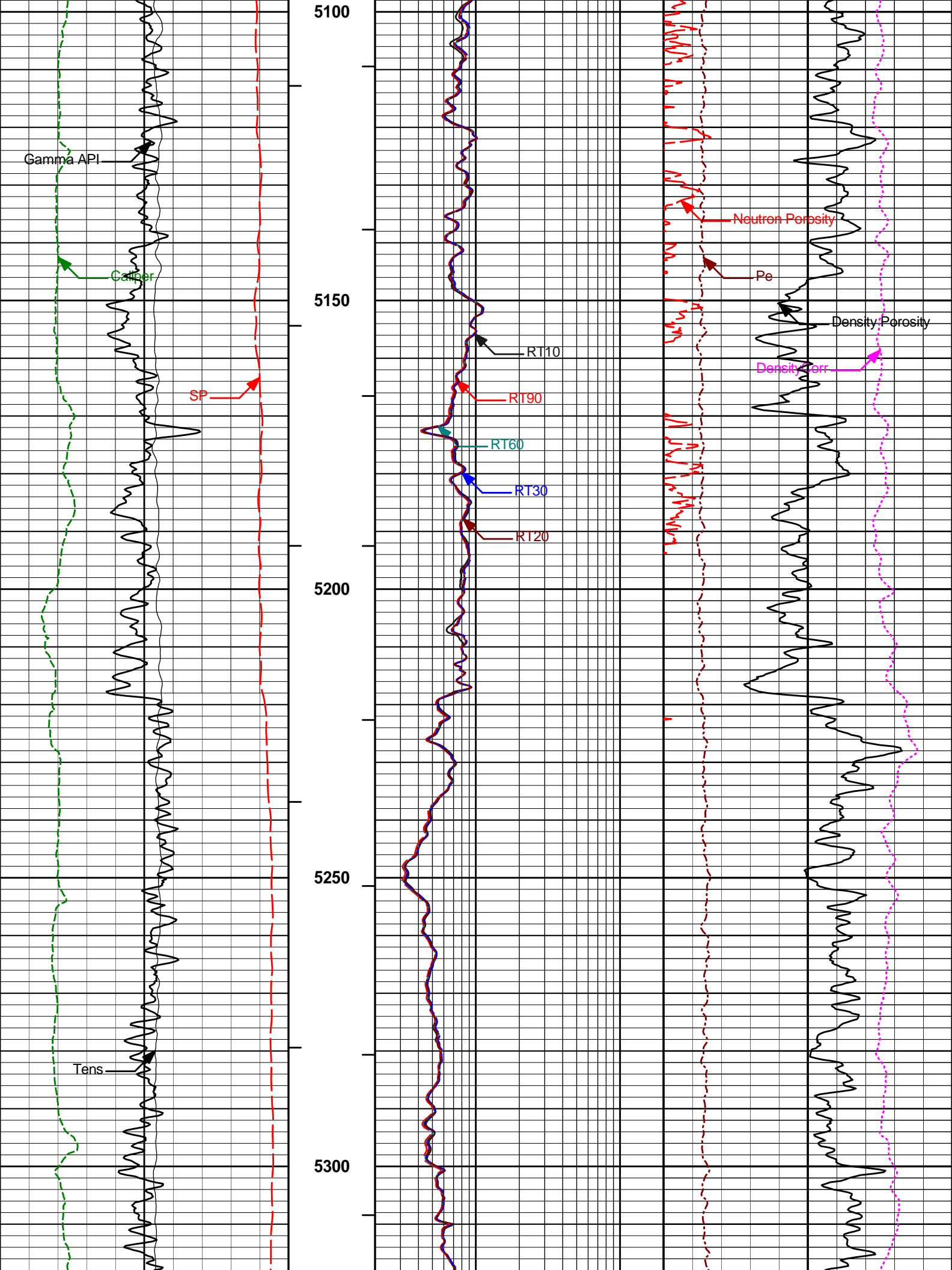


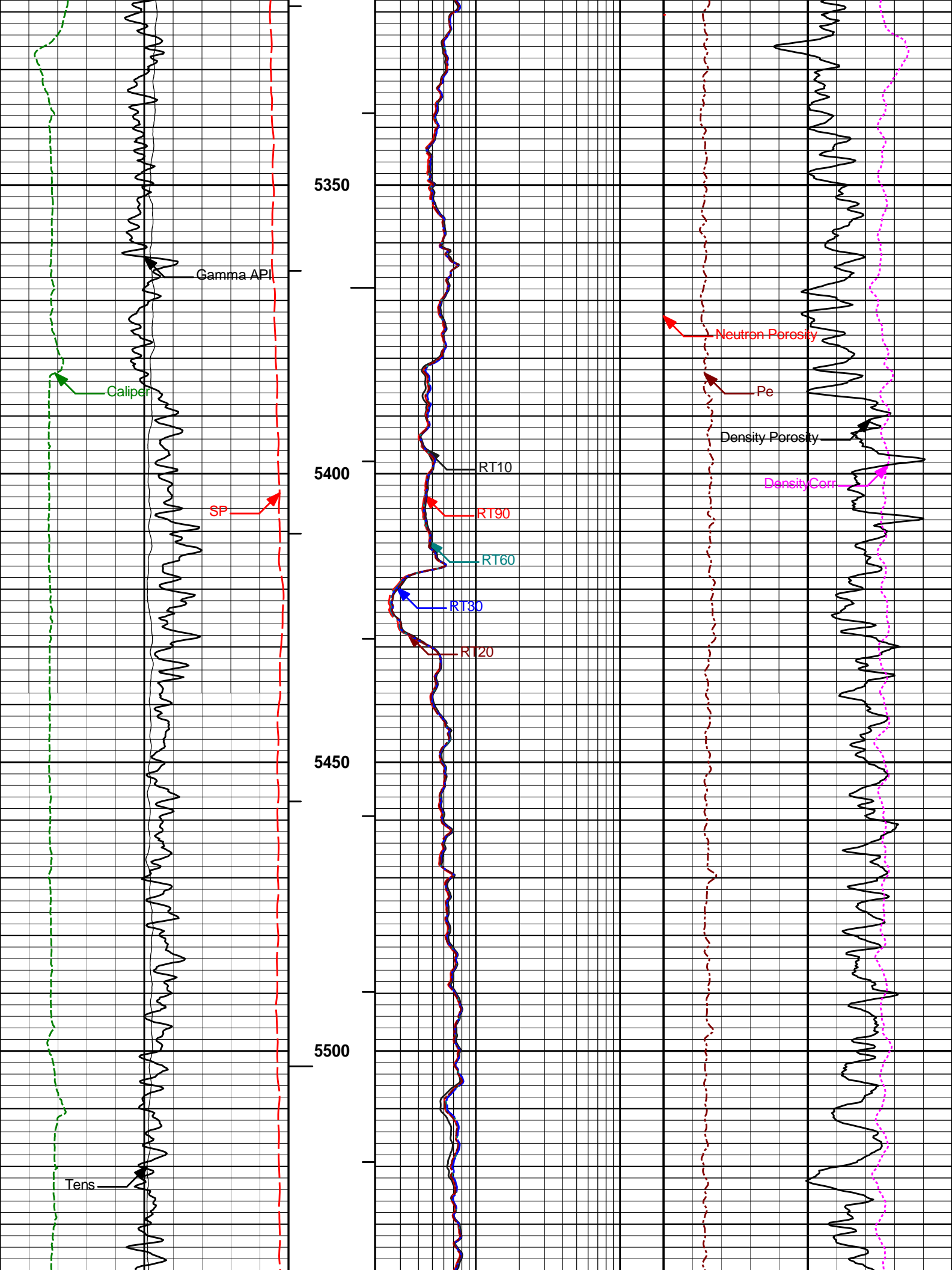


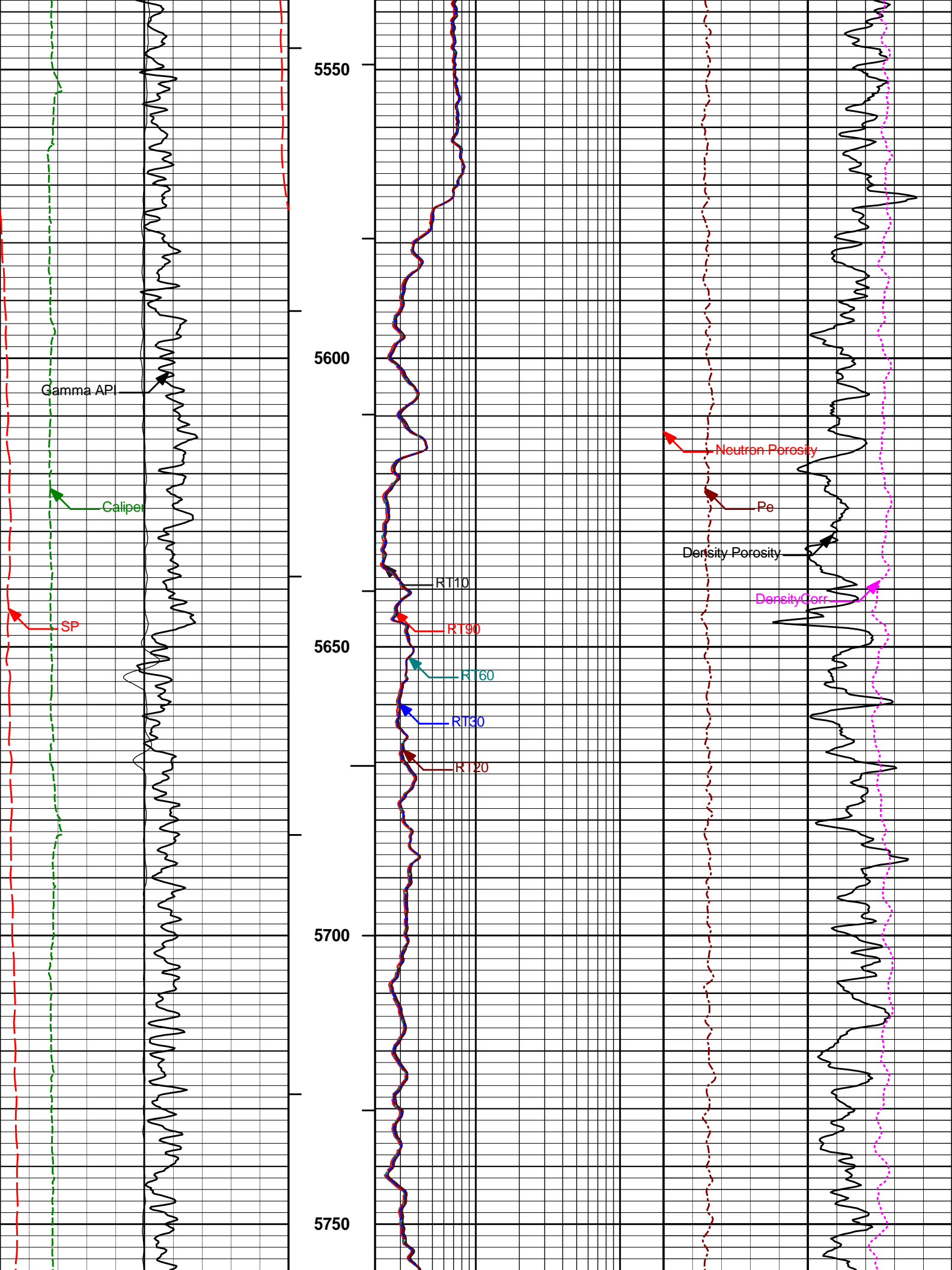


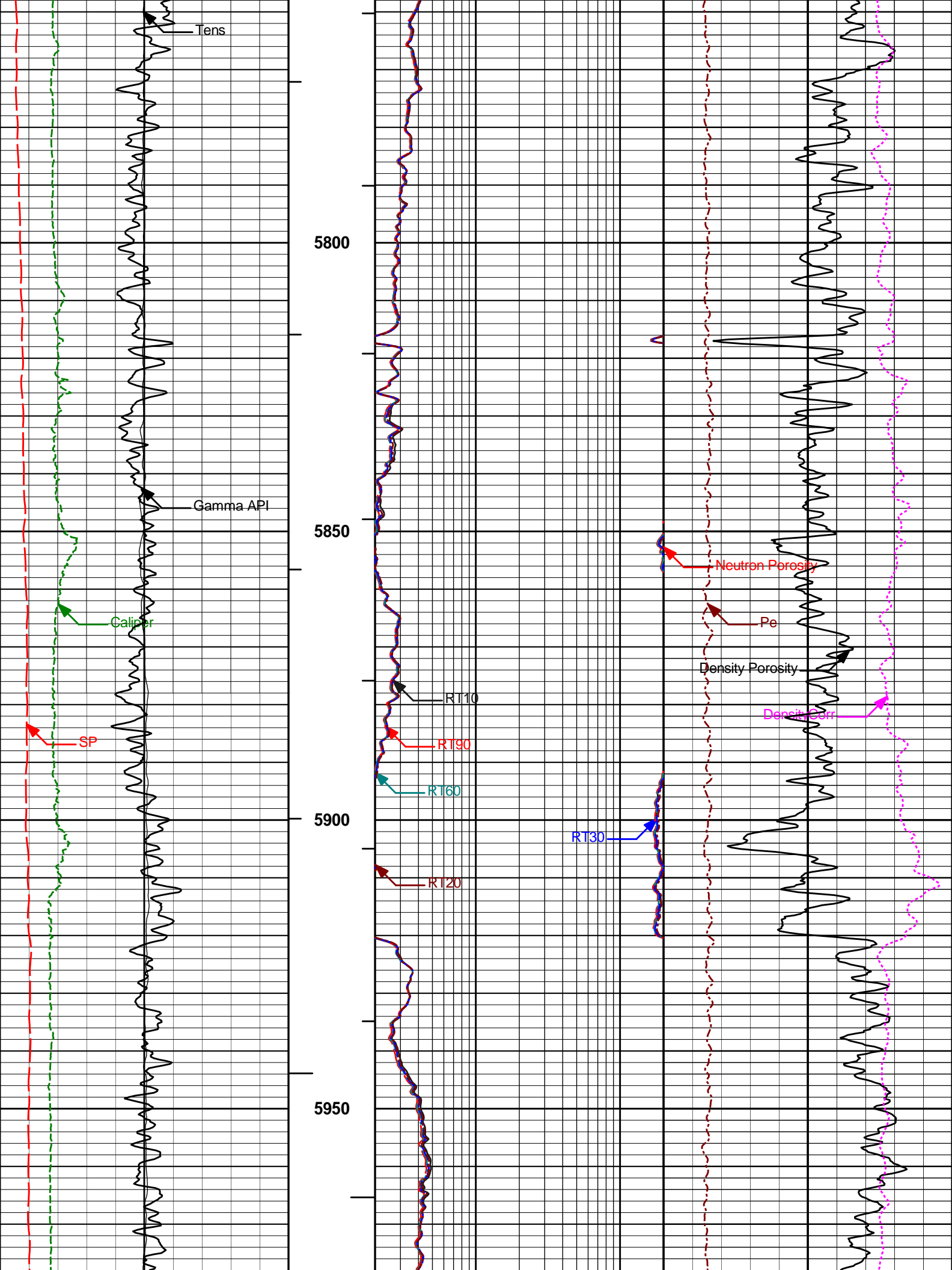


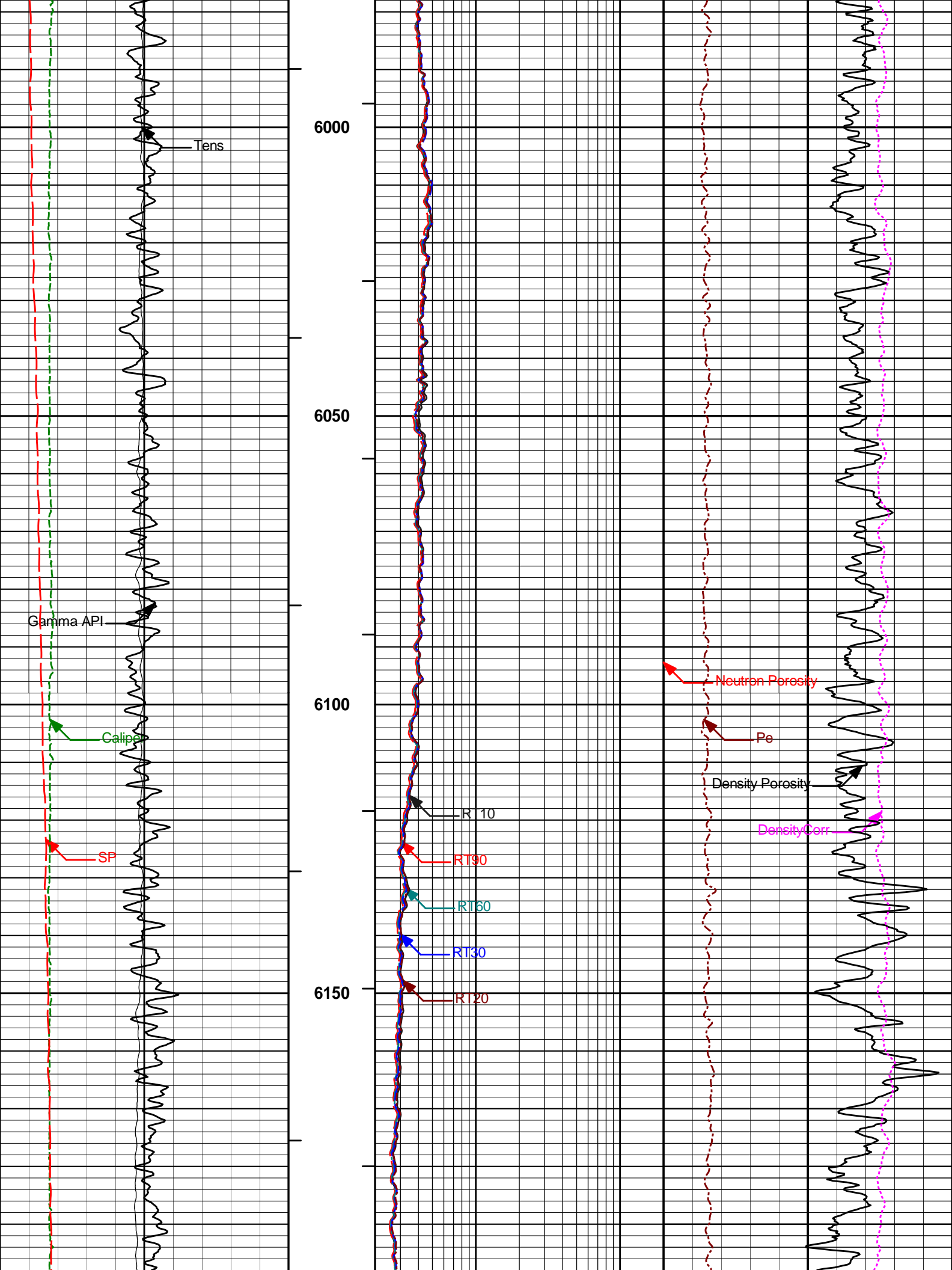


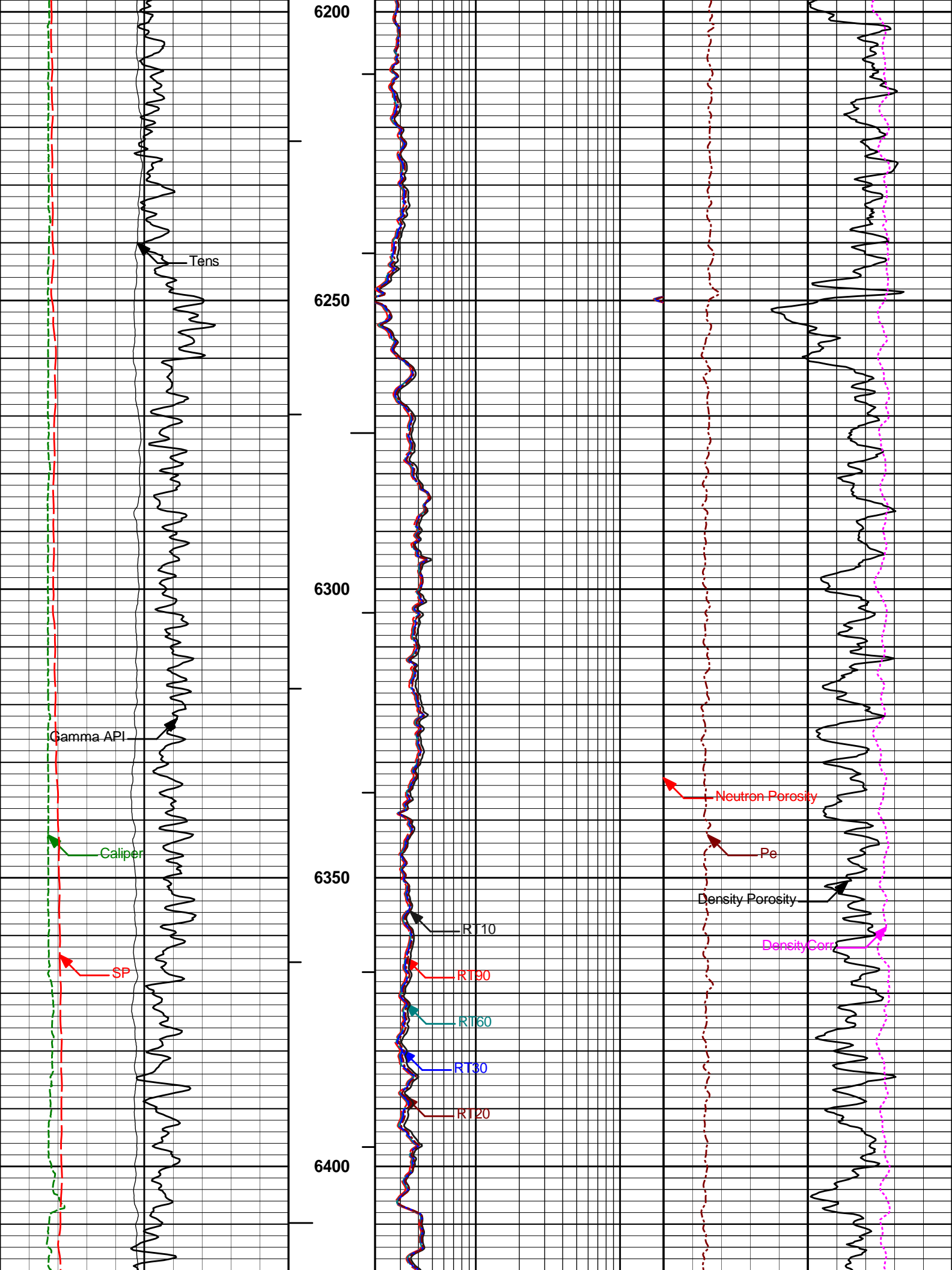


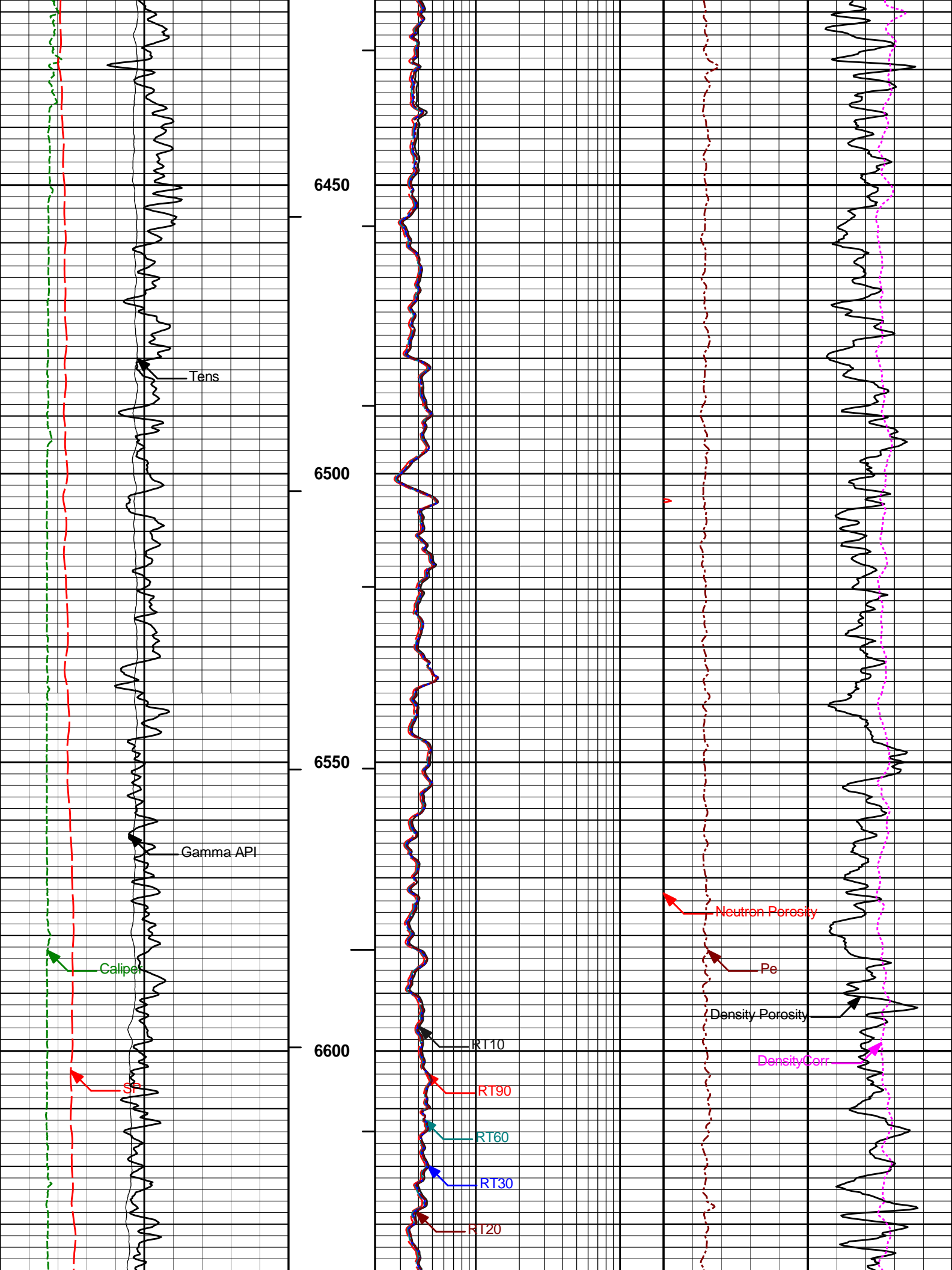


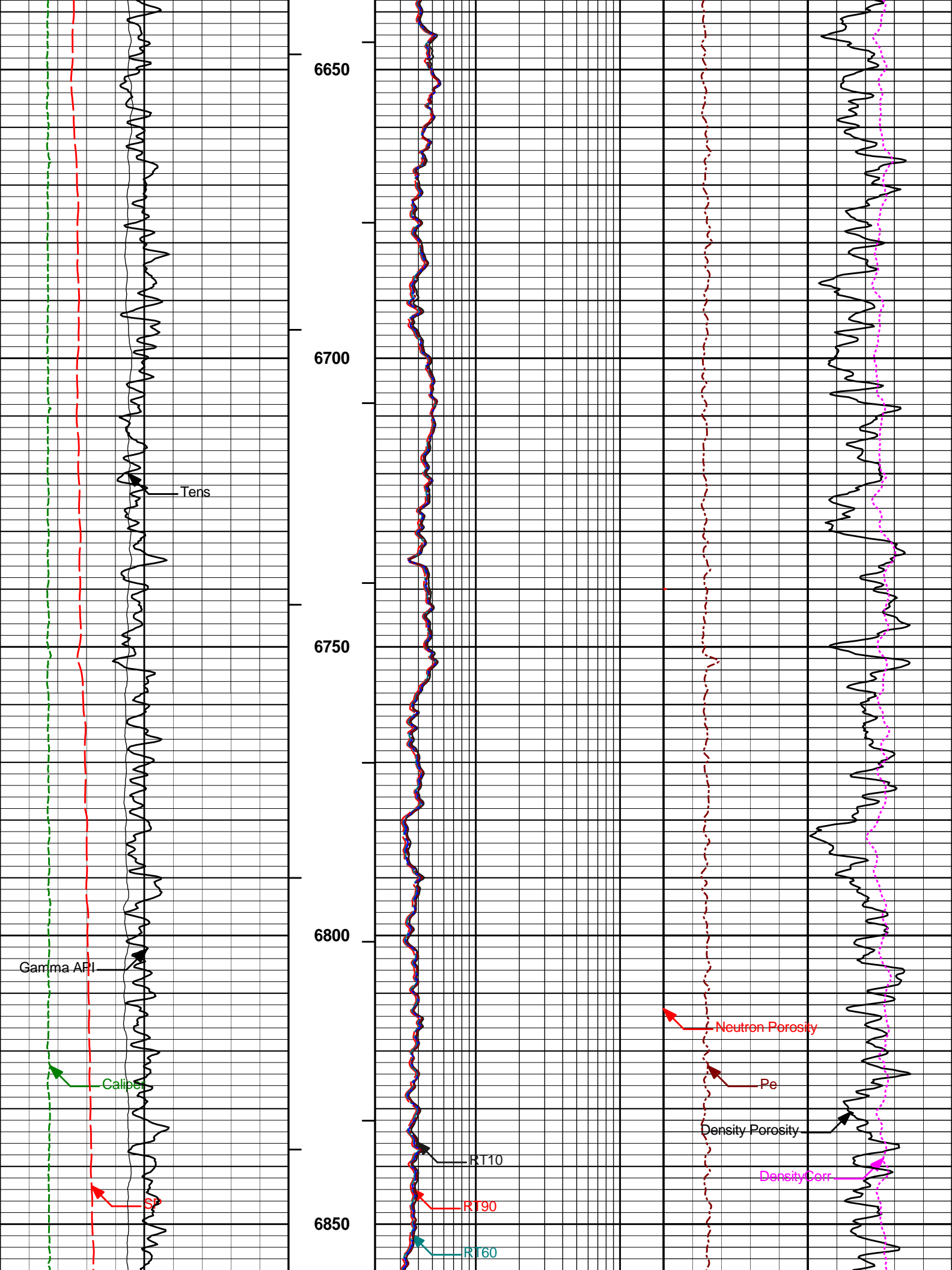


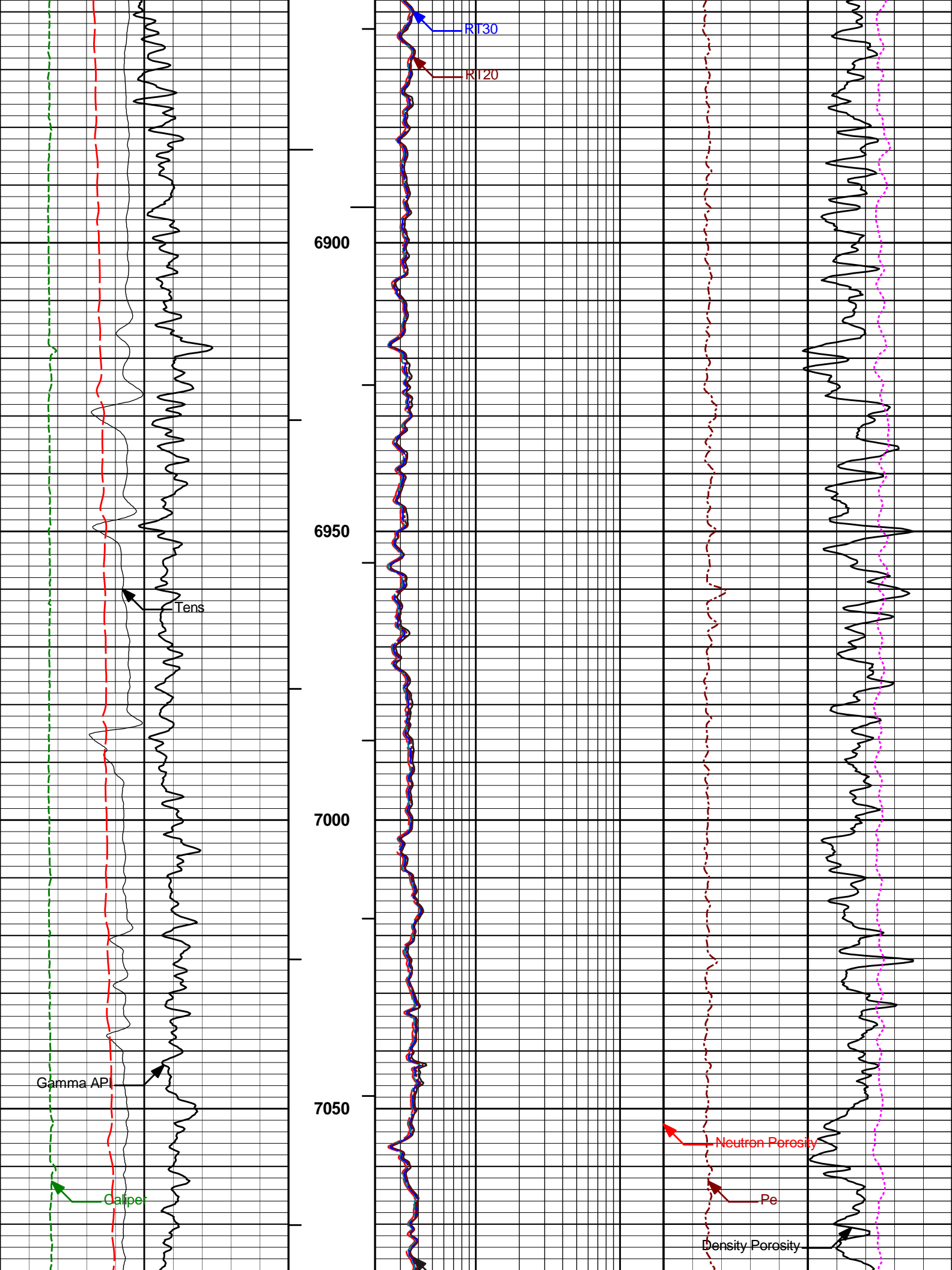


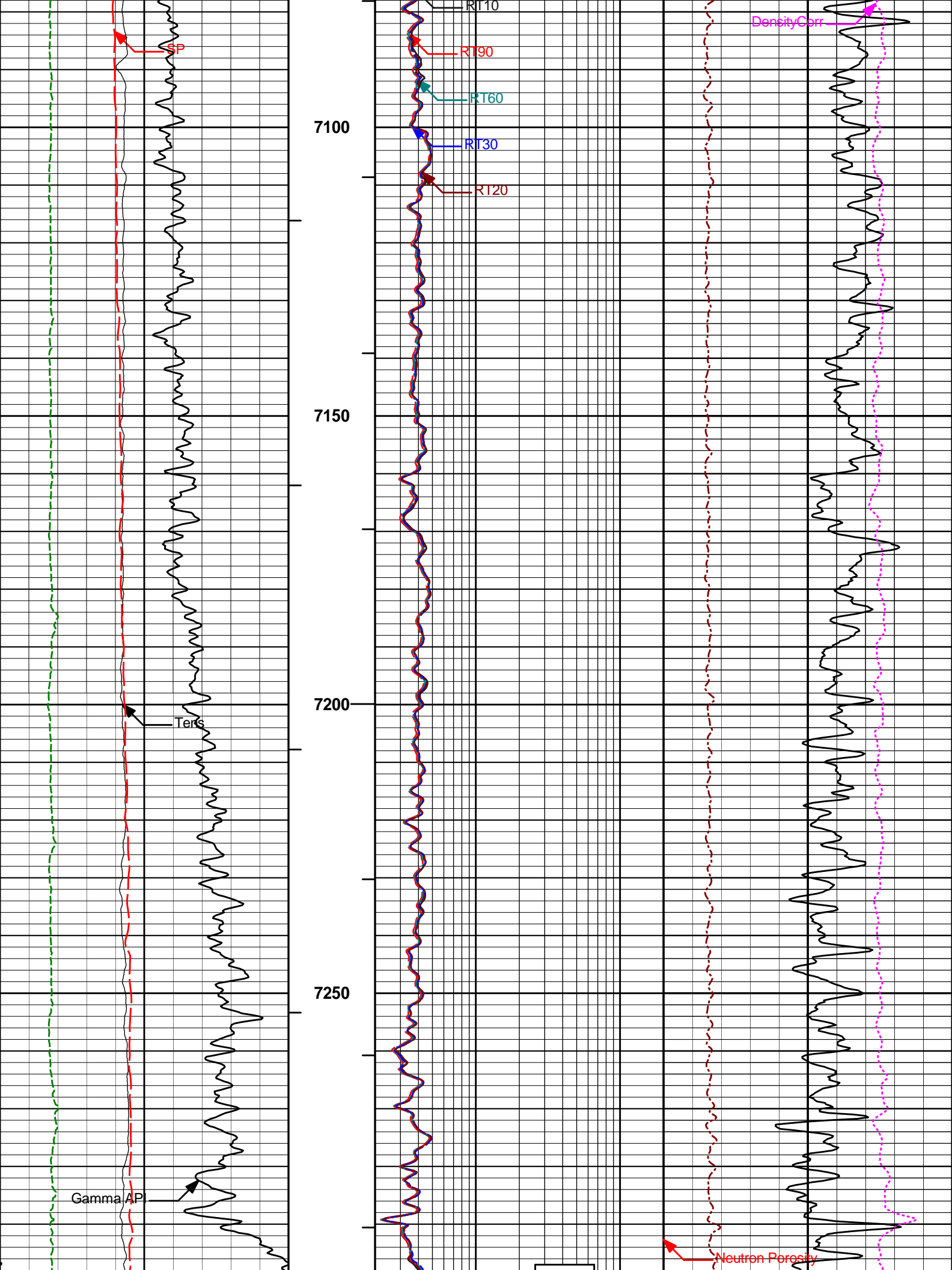


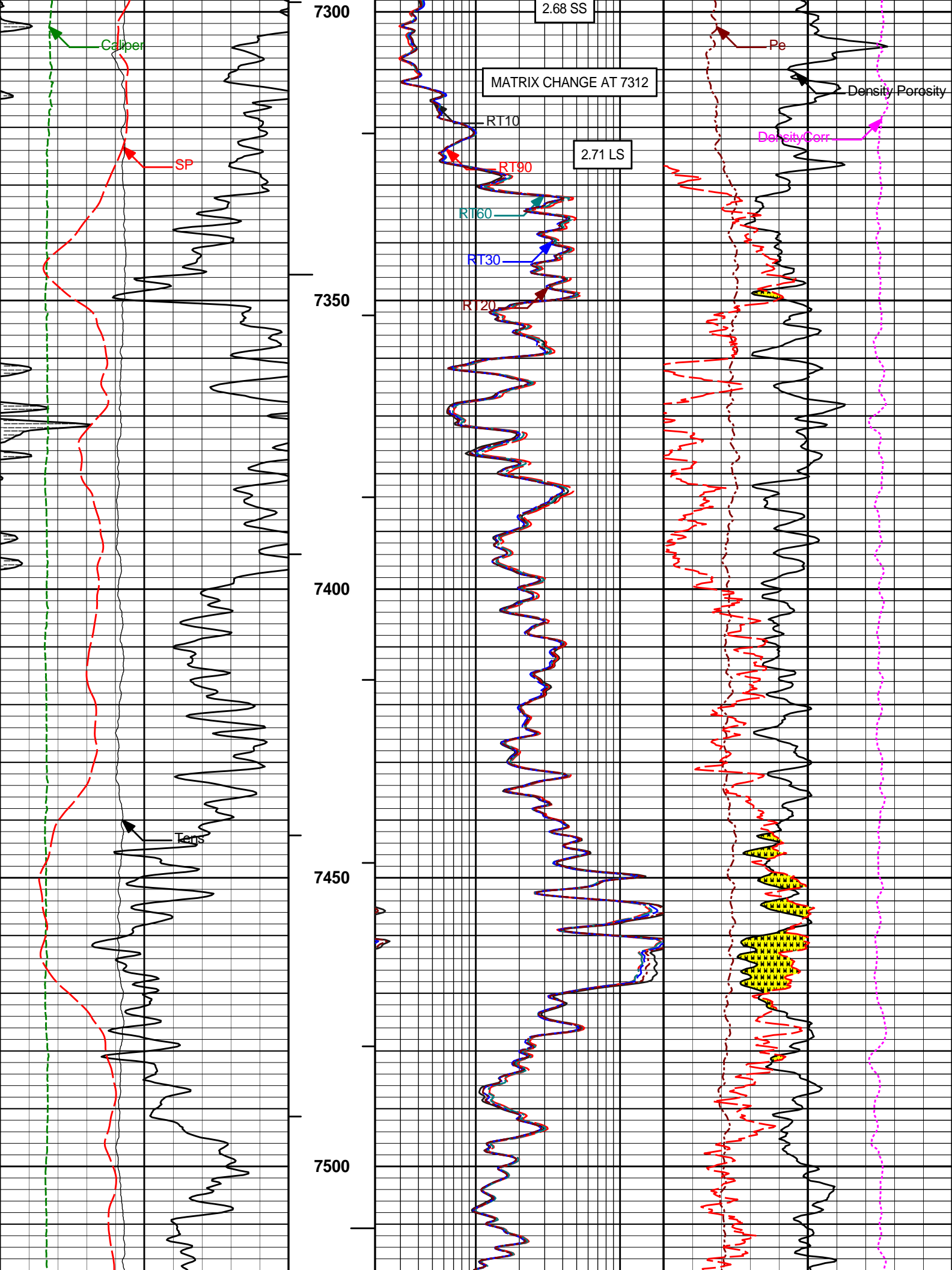


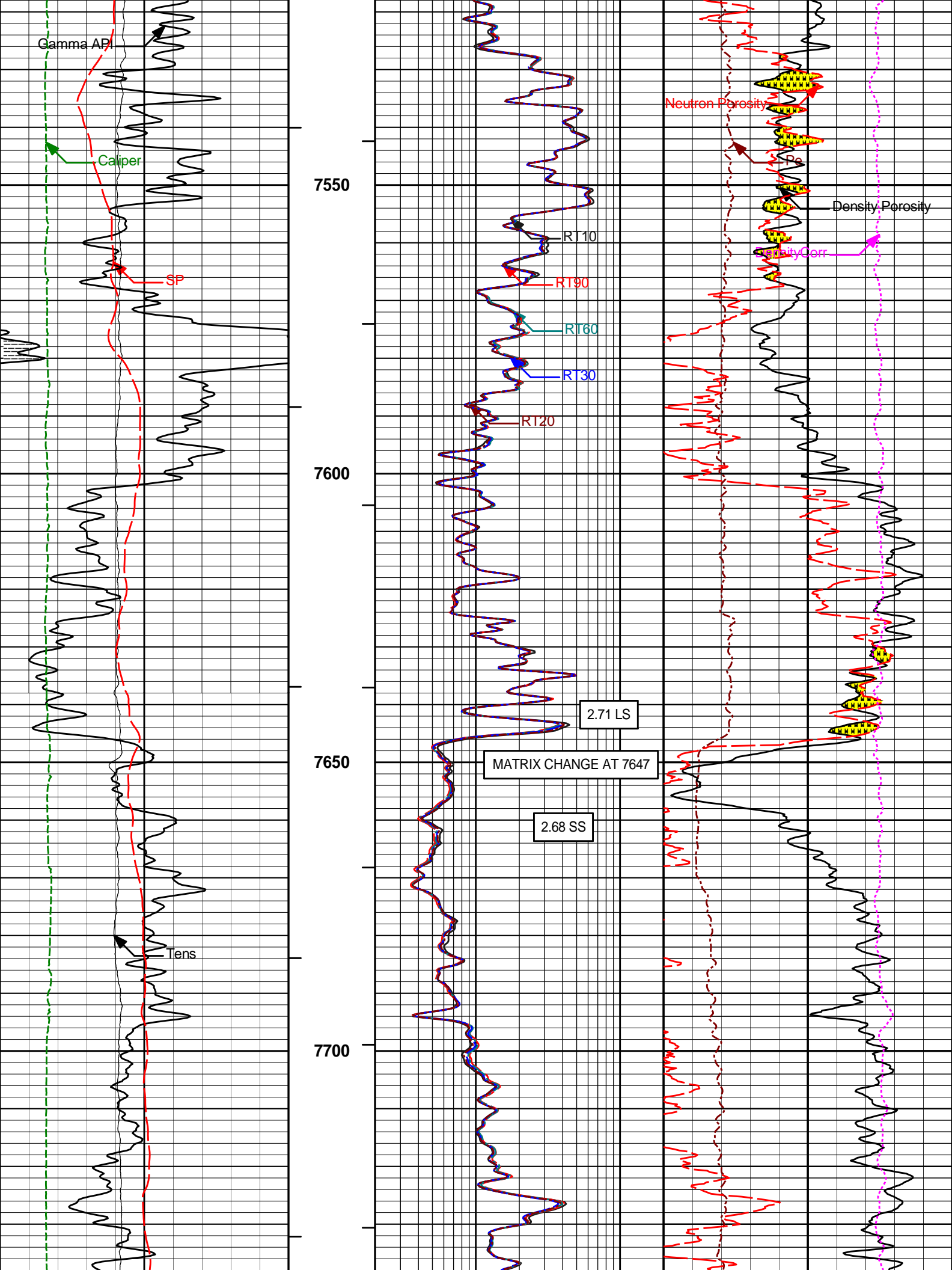


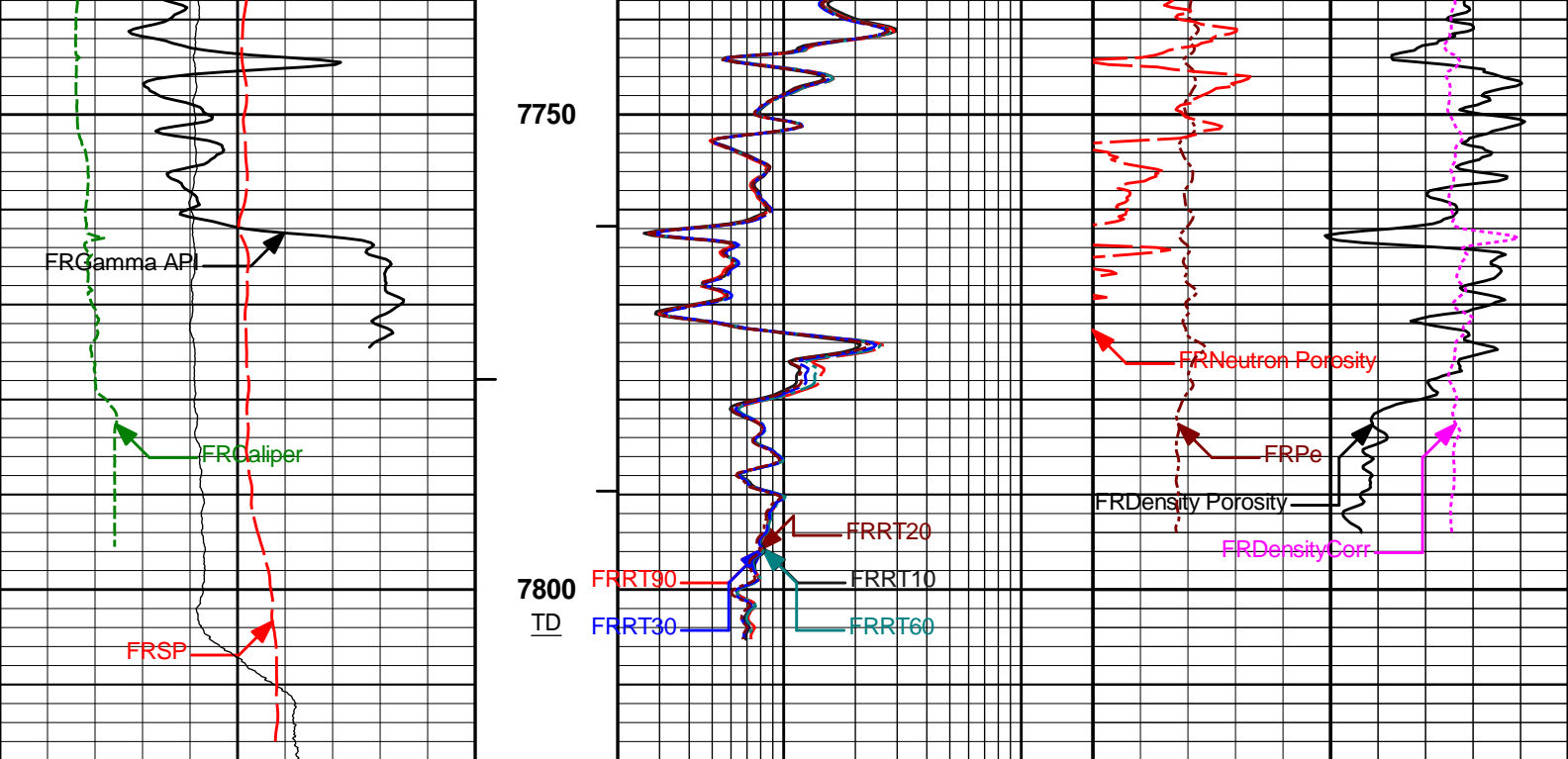












0	SP	100	1 : 240	2	RT90	200	0	Pe	10	-0.25	Density Corr	0.25
	millivolts				ohmm						gram per cc	
0	Gamma API	200	BHVT	2	RT60	200	20	Density Porosity			percent	0
	api				ohmm							
6	Caliper	16	AHVT	2	RT30	200	20	Neutron Porosity			percent	0
	inches				ohmm							
10K	Tens	0		2	RT20	200						
	pounds				ohmm							
				2	RT10	200						
					ohmm							

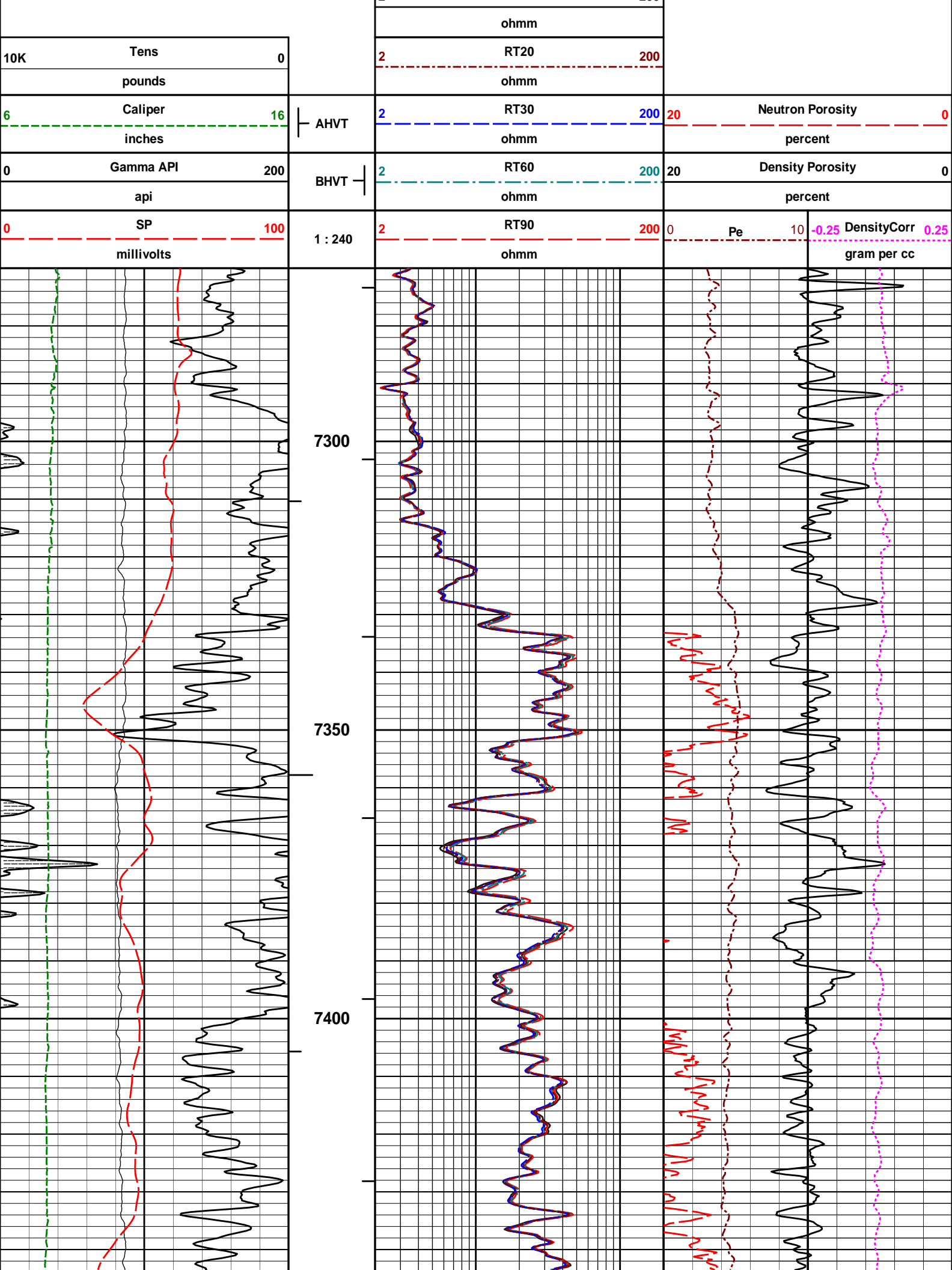
HALLIBURTON Plot Time: 31-Dec-13 01:49:26
 Plot Range: 775 ft to 7818.08 ft
 Data: WINTER_8-29\Well Based\MAIN\
 Plot File: \COMP\MAIN

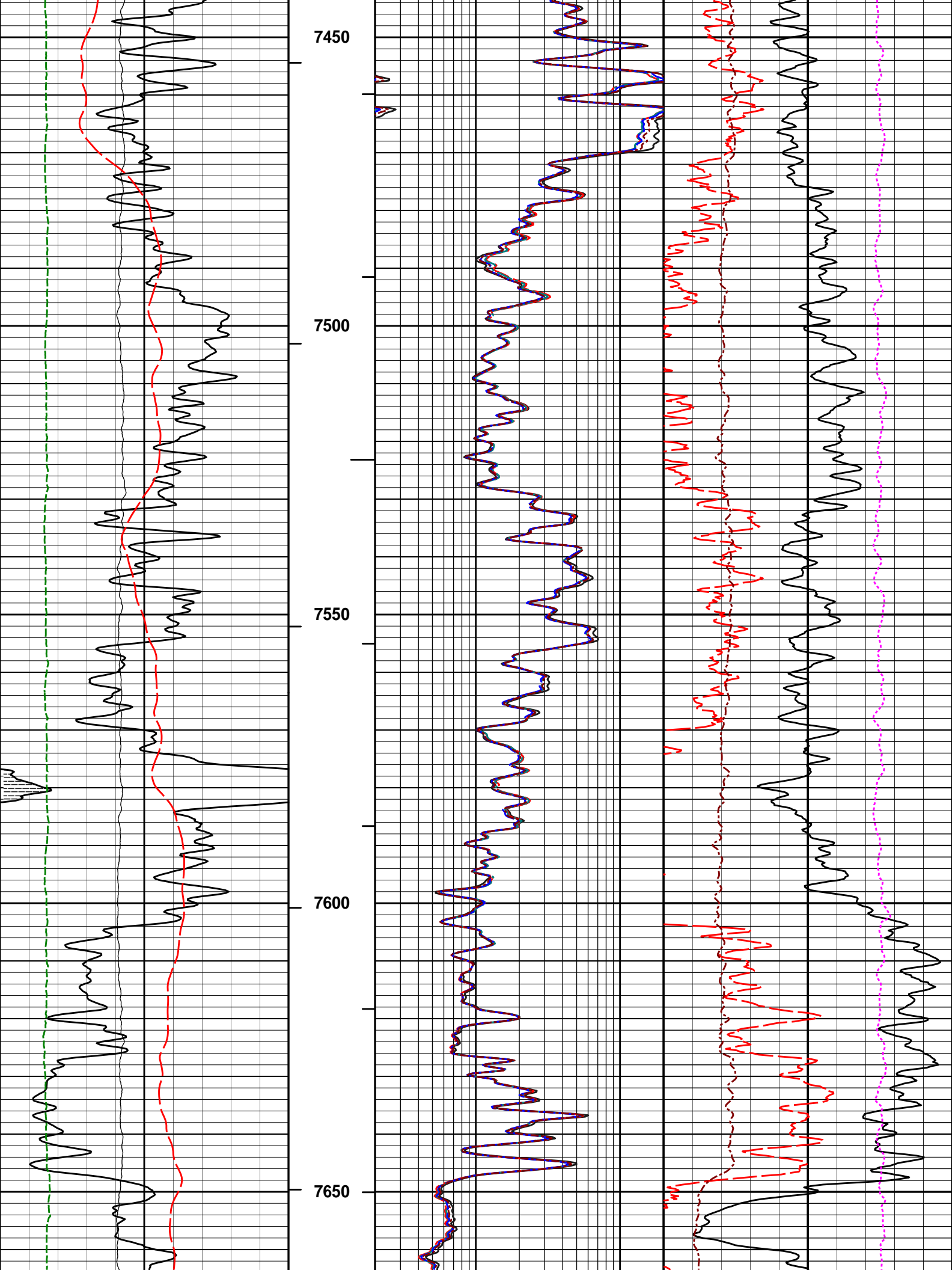
MAIN PASS 5" = 100'

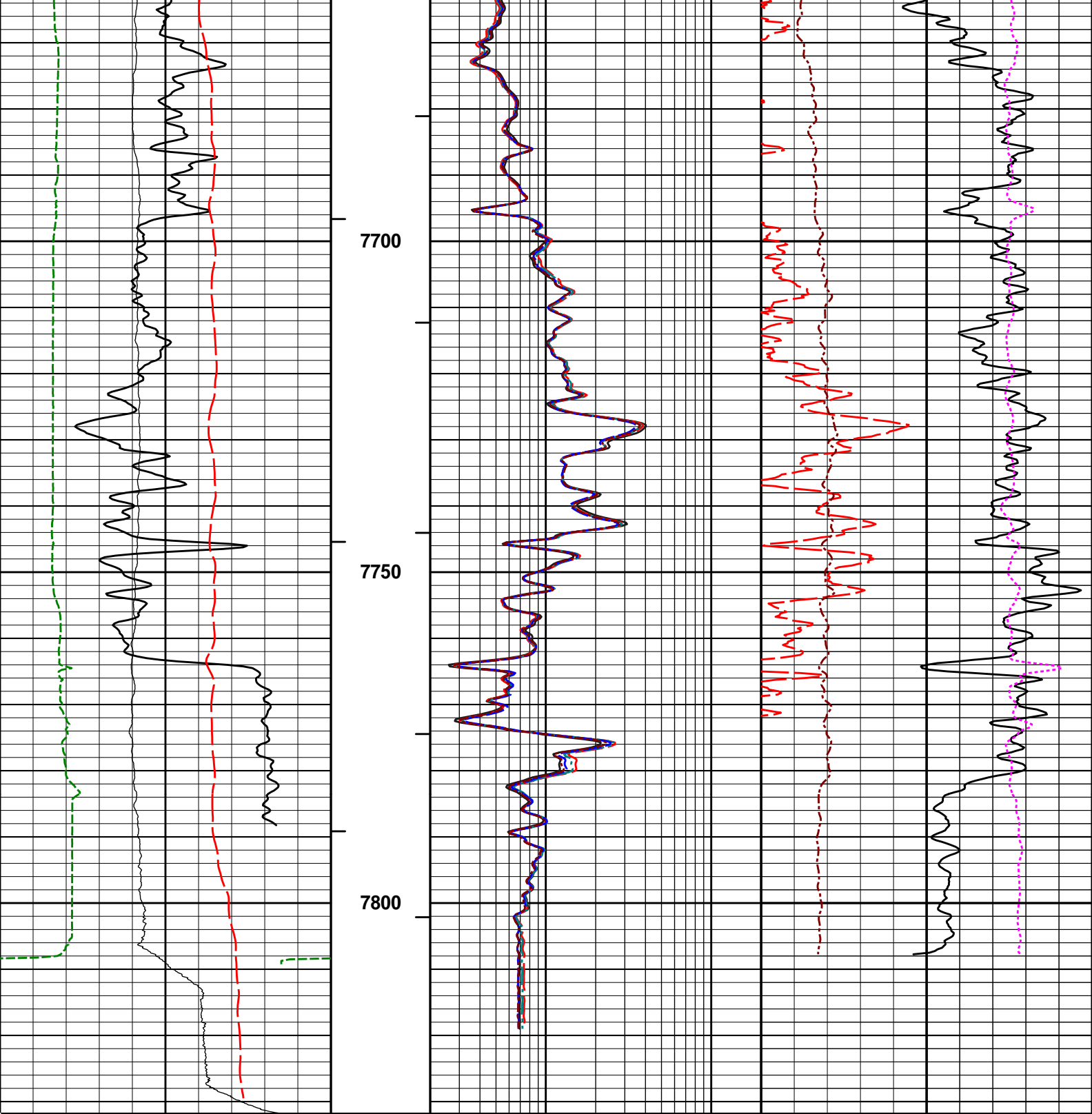
HALLIBURTON Plot Time: 31-Dec-13 01:49:26
 Plot Range: 7270 ft to 7831.83 ft
 Data: WINTER_8-29\Well Based\REPEAT\
 Plot File: \COMP\REPEAT

REPEAT SECTION 5" = 100'

2	RT10	200
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0	SP	100	1 : 240	2	RT90	200	0	Pe	10	-0.25	DensityCorr	0.25
	millivolts				ohmm						gram per cc	
0	Gamma API	200	BHVT	2	RT60	200	20	Density Porosity				0
	api				ohmm			percent				
6	Caliper	16	AHVT	2	RT30	200	20	Neutron Porosity				0
	inches				ohmm			percent				
10K	Tens	0		2	RT20	200						
	pounds				ohmm							
				2	RT10	200						
					ohmm							

REPEAT SECTION 5" = 100'

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:	GTET - 11812883	Reference Calibration Date:	27-Nov-13 10:43:31
Engineer:	J. PINKETT	Calibration Date:	18-Dec-13 08:57:03
Software Version:	WL INSITE R3.8.12 (Build 3)	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	74.2	72.4	api
Background + Calibrator	327.9	319.6	api
Calibrator	253.7	247.3	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name:	GTET - 11812883	Reference Calibration Date:	18-Dec-13 08:57:03
Engineer:	J. SCHMIDT	Calibration Date:	30-Dec-13 08:43:20
Software Version:	WL INSITE R3.8.12 (Build 3)	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	72.4	72.2	api
Background + Calibrator	319.6	320.7	api
Calibrator	247.3	248.6	api

Shop	Field	Difference	Tolerance
247.3	248.6	-1.3	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name:	DSNT - 11812167	Reference Calibration Date:	27-Nov-13 11:00:49
Engineer:	J. PINKETT	Calibration Date:	18-Dec-13 09:23:01
Software Version:	WL INSITE R3.8.12 (Build 3)	Calibration Version:	1

Logging Source S/N: DSN 434

Tank Serial Number: 11068236

Reference value assigned to Tank: 53.720

Snow Block S/N: Brighton

Calibration Tank Water Temperature: 50 degF

Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS			
Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.999	1.000	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):	0.2219	0.2223	0.0004	+/- 0.0020
Calibrated Ratio:	10.10	10.11	0.014	+/- 0.050

VERIFIER		
Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0828	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 - 11812167	Reference Calibration Date:	18-Dec-13 09:23:01
Engineer:	J. SCHMIDT	Calibration Date:	30-Dec-13 08:51:54
Software Version:	WL INSITE R3.8.12 (Build 3)	Calibration Version:	1

Logging Source S/N: DSN 434
Snow Block S/N: Brighton

NEUTRON FIELD-CHECK SUMMARY				
	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0828	0.0851	0.0023	+/- 0.0150

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

DENSITY CALIPER SHOP CALIBRATION			
Tool Name:	SDLT - 11812177	Reference Calibration Date:	27-Nov-13 13:06:14
Engineer:	J. PINKETT	Calibration Date:	18-Dec-13 10:43:18
Software Version:	WL INSITE R3.8.12 (Build 3)	Calibration Version:	1
Host Tool Name:	DSNT - 11812167		

CALIBRATION COEFFICIENTS			
Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-3440.67	-3834.32	-7000.00 - -1000.00
Pad Gain	0.0003751	0.0003859	0.000200 - 0.000600
Arm Offset	-4701.10	-4446.16	-5000.00 - 3000.00
Arm Gain	0.0005841	0.0005619	0.000300 - 0.000700
Arm Power	-0.000006518	-0.000004782	-0.000010000 - 0.000010000

The ring diameter is computed from: DIAMETER = PAD EXTENSION + ARM EXTENSION + TOOL DIAMETER
Tool Diameter: 4.50 in

CALIBRATION RINGS	
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CALIBRATION RINGS					
Measurement	Current Reading (Previous Coeff.)	Calibrated (New Coeff.)	Change	Control Limit On New Value	
PAD EXTENSION:					
Small Ring (in)	2.09	2.00	-0.09	+/- 0.20	
Medium Ring (in)	3.79	3.75	-0.04	+/- 0.20	
RING DIAMETER:					
Small Ring (in)	6.57	6.50	-0.07	+/- 0.20	
Medium Ring (in)	8.36	8.25	-0.11	+/- 0.20	
Large Ring (in)	15.02	15.00	-0.02	+/- 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 - 11812177		Reference Calibration Date:	18-Dec-13 10:43:18	
Engineer:	J. SCHMIDT		Calibration Date:	30-Dec-13 08:46:16	
Software Version:	WL INSITE R3.8.12 (Build 3)		Calibration Version:	1	

MEASURED CALIPER VALUES				
Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.77	0.02	+/- 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 - 11795867		Reference Calibration Date:	27-Nov-13 12:26:52	
Engineer:	J. PINKETT		Calibration Date:	18-Dec-13 10:18:07	
Software Version:	WL INSITE R3.8.12 (Build 3)		Calibration Version:	1	

Logging Source S/N: 5471GW					
Aluminum Block S/N: 63066		Density: 2.602g/cc		Pe: 3.100	
Magnesium Block S/N: BRIGHTON MAGNESIUM BLOCK		Density: 1.691g/cc		Pe: 2.650	

DENSITY CALIBRATION SUMMARY			
Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0318	1.0429	0.90 - 1.10
Near Dens Gain	1.0119	1.0119	0.90 - 1.10
Near Peak Gain	0.9894	1.0067	0.90 - 1.10
Near Lith Gain	0.9531	0.9556	0.90 - 1.10
Far Bar Gain	1.0071	1.0067	0.90 - 1.10
Far Dens Gain	0.9973	0.9945	0.90 - 1.10
Far Peak Gain	0.9908	0.9884	0.90 - 1.10
Far Lith Gain	0.9777	0.9732	0.90 - 1.10
Near Bar Offset	-0.3465	-0.4477	NONE
Near Dens Offset	-0.1467	-0.1438	NONE
Near Peak Offset	0.0505	-0.0930	NONE
Near Lith Offset	0.2325	0.2127	NONE

Near Lith Offset	0.3335	0.3137	NONE
Far Bar Offset	-0.1671	-0.1598	NONE
Far Dens Offset	-0.0679	-0.0386	NONE
Far Peak Offset	-0.0199	-0.0025	NONE
Far Lith Offset	0.0948	0.1304	NONE
Near Bar Background	826.42	824.01	700 - 1450
Near Dens Background	273.04	272.33	230 - 480
Near Peak Background	119.40	118.81	100 - 210
Near Lith Background	145.45	146.30	125 - 260
Far Bar Background	645.89	644.67	450 - 900
Far Dens Background	251.31	253.36	175 - 345
Far Peak Background	100.46	100.80	70 - 140
Far Lith Background	103.98	102.21	75 - 145

CALIBRATION BLOCK SUMMARY				
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.687	1.691	0.004	+/- 0.015
Pe	2.586	2.600	0.014	+/- 0.150
ALUMINUM				
Density (g/cc)	2.601	2.602	0.001	+/- 0.01500
Pe	3.047	3.059	0.012	+/- 0.150

TOOL SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	-0.0014	+/- 0.0110	0.0005	+/- 0.0140
Magnesium Block	-0.0004	+/- 0.0110	-0.0000	+/- 0.0140
Aluminum Block	-0.0005	+/- 0.0110	0.0012	+/- 0.0140
Resolution	8.50	6.00 - 11.50	8.74	6.00 - 11.50
Internal Verifier(B+D+P+L)	1361	1200 - 2700	1101	800 - 1700

PASS/FAIL SUMMARY	
Background Quality Check:	Passed
Background Range Check:	Passed
Background Resolution Check:	Passed
Background Verification Check:	Passed
Magnesium Quality Check:	Passed
Aluminum Quality Check:	Passed
Gains Check:	Passed
Changes in Calibration Blocks:	Passed

SPECTRAL DENSITY FIELD CHECK

Tool Name:	SDLT Pad - 11795867	Reference Calibration Date:	18-Dec-13 10:18:07
Engineer:	J. SCHMIDT	Calibration Date:	30-Dec-13 08:42:46
Software Version:	WL INSITE R3.8.12 (Build 3)	Calibration Version:	1

Pad Temperature: 64.7 degF

DENSITY FIELD CALIBRATION SUMMARY				
Measurement	Current Reading	Calibrated	Change	Control Limit

Measurement		Shop	Field	Change	Control Limit +/-	
Near (B+D+P+L) cps		1361.448	1365.326	3.878	14.915	
Far (B+D+P+L) cps		1101.033	1103.928	2.895	17.514	
Near Resolution		8.50	8.61	0.110	0.50	
Far Resolution		8.74	8.91	0.170	1.00	

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

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION			
Tool Name:	ACRt Sonde - 11294353	Reference Calibration Date:	23-Dec-13 15:52:21
Engineer:	J. SCHMIDT	Calibration Date:	30-Dec-13 16:00:03
Software Version:	WL INSITE R3.8.12 (Build 3)	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	1.01	1.05	0.95	1.01	1.05	0.95	1.01	1.05
A2 (50")	0.95	1.01	1.05	0.95	1.01	1.05	0.95	1.01	1.05
A3 (29")	0.95	1.01	1.05	0.95	1.01	1.05	0.95	1.01	1.05
A4 (17")	0.95	1.01	1.05	0.95	1.01	1.05	0.95	1.01	1.05
A5 (10")	N/A	N/A	N/A	0.95	0.99	1.05	0.95	0.99	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.98	1.05	0.95	0.98	1.05

SONDE OFFSET						
Subarray	R12KHz		R36KHz		R72KHz	
	(mmho/m)		(mmho/m)		(mmho/m)	
A1 (80")	-1.02		-4.56		-5.15	
A2 (50")	-1.65		-3.00		-4.89	
A3 (29")	-13.28		-3.59		-3.74	
A4 (17")	-91.13		-28.97		-24.97	
A5 (10")	N/A		-97.33		-46.17	
A6 (6")	N/A		346.46		178.39	

TRANSMITTER CURRENT GAIN				R-MUD VERIFICATION			
Signal	Lower	R	Upper	Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
12K	0.6	0.88	1.3	Mud Cell	0.95	1.00	1.05
36K	1.0	1.85	2.0				
72K	1.0	1.13	2.0				

PASS/FAIL SUMMARY	
GAIN RANGE CHK	PASS
SONDE OFFSET CHK	PASS
TOOL OK TO LOG	

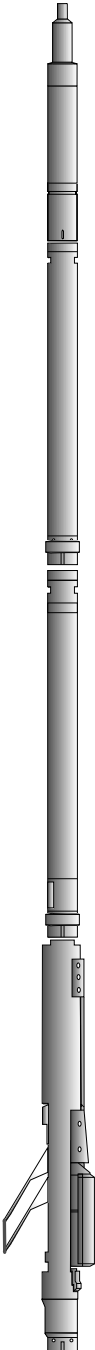
CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units

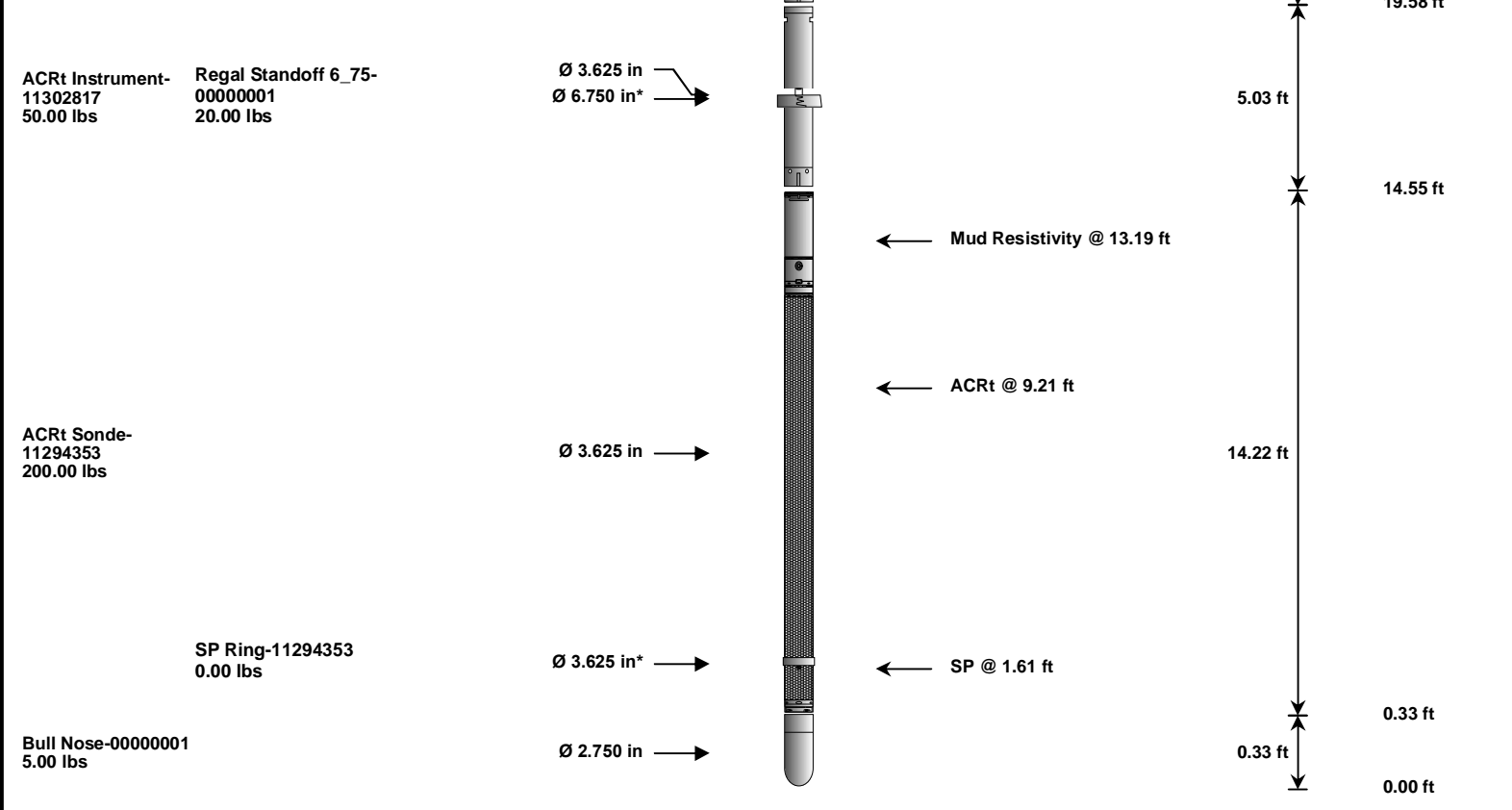
GTET-11812883						
Gamma Ray Calibrator	247.3	248.6	-----	-1.3	+/- 9.00	api
DSNT-11812167						
Snow-Block Porosity	0.0828	0.0851	-----	-0.0023	+/- 0.0150	decp
SDLT-11812177						
Pad Extension	3.75	3.77	-----	-0.02	+/-0.10	in
Ring Diameter	8.25	8.24	-----	0.01	+/-0.15	in
SDLT Pad-11795867						
Near(B+D+P+L)	1361.448	1365.326	-----	-3.878	+/-14.915	cps
Far(B+D+P+L)	1101.033	1103.928	-----	-2.895	+/-17.514	cps
ACRt Sonde-11294353						
Mud Cell	1.00	-----	-----	0.00	-----	ohm-m

Data: WINTER 8-29\0001 TRIPLE RED SLICK\IDLE
Date: 30-Dec-13 22:02:53

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
RWCH-11078326 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
	UnivWearRing3.6-11812883 5.00 lbs	Ø 4.200 in* →				40.08 ft
DSNT-11812167 174.00 lbs		Ø 3.625 in →		← DSN Far @ 33.15 ft ← DSN Near @ 32.40 ft	9.69 ft	
	UnivWearRing3.6-11812167 5.00 lbs	Ø 4.200 in* →				30.40 ft
SDLT-11812177 360.00 lbs		Ø 4.500 in →		← SDL Caliper @ 22.40 ft ← SDL @ 22.39 ft	10.81 ft	
	SDLT Pad-11795867 65.00 lbs	Ø 4.750 in* →				19.58 ft



Mnemonic		Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
RWCH	Releasable Wireline Cable Head		11078326	135.00	6.25	48.60	300.00
GTET	Gamma Telemetry Tool		11812883	165.00	8.52	40.08	60.00
UWR3P6	Universal Wear Ring 3 5-8 inch		11812883	5.00	0.35	* 40.48	300.00
DSNT	Dual Spaced Neutron		11812167	174.00	9.69	30.40	60.00
UWR3P6	Universal Wear Ring 3 5-8 inch		11812167	5.00	0.35	* 30.72	300.00
SDLT	Spectral Density Tool		11812177	360.00	10.81	19.58	60.00
SDLP	Density Insite Pad		11795867	65.00	2.55	* 21.79	60.00
ACRt	Array Compensated True Resistivity Instrument Section		11302817	50.00	5.03	14.55	300.00
RSOF	Regal Standoff 6.75in		00000001	20.00	0.52	* 16.79	300.00
ACRt	Array Compensated True Resistivity Sonde Section		11294353	200.00	14.22	0.33	300.00
SP	SP Ring		11294353	0.00	0.25	* 1.61	300.00
BLNS	Bull Nose		00000001	5.00	0.33	0.00	300.00
Total				1,184.00	54.85		
* Not included in Total Length and Length Accumulation.							
Data: WINTER_8-29\0001 TRIPLE_RED_SLICKWDL							
Date: 30-Dec-13 21:17:56							

COMPANY	BAYSWATER EXPLORATION & PRODUCTION		
WELL	WINTER 8-29		
FIELD	WATTENBERG		
COUNTY	WELD	STATE	CO
HALLIBURTON		DUAL SPACED NEUTRON SPECTRAL DENSITY ARRAY COMPENSATED TRUE RESISTIVITY	