

**DUAL SPACED NEUTRON
SPECTRAL DENSITY
ARRAY COMPENSATED
TRUE RESISTIVITY**

Fold here

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		REC	0	200				20	0	2.68	20	0	SAND		
ONE			REC	0	200				20	0	2.71	20	0	LIME		
ONE		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																
YOUR CREW: A. AXE, K. PRIEST																
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																

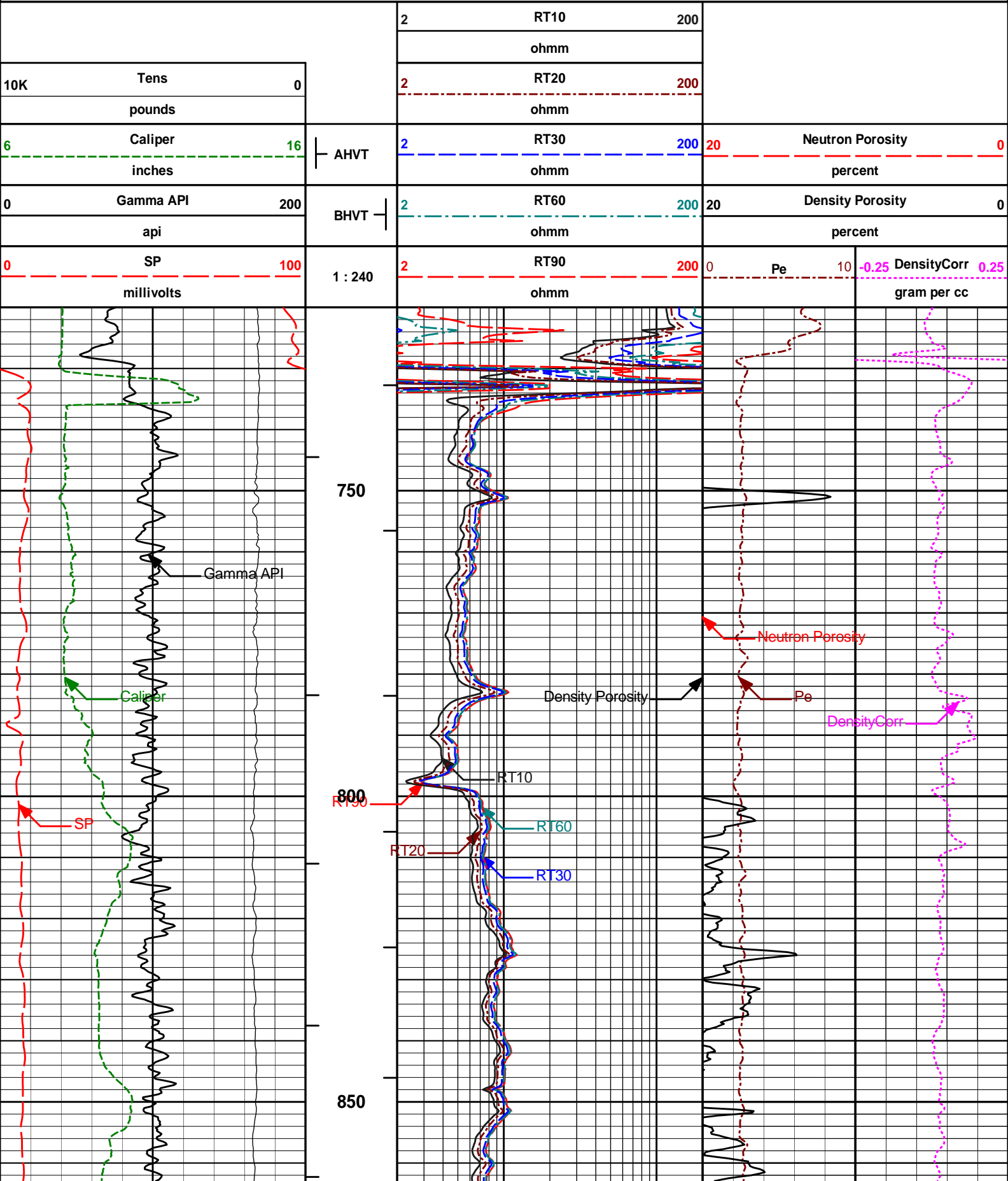
HALLIBURTON

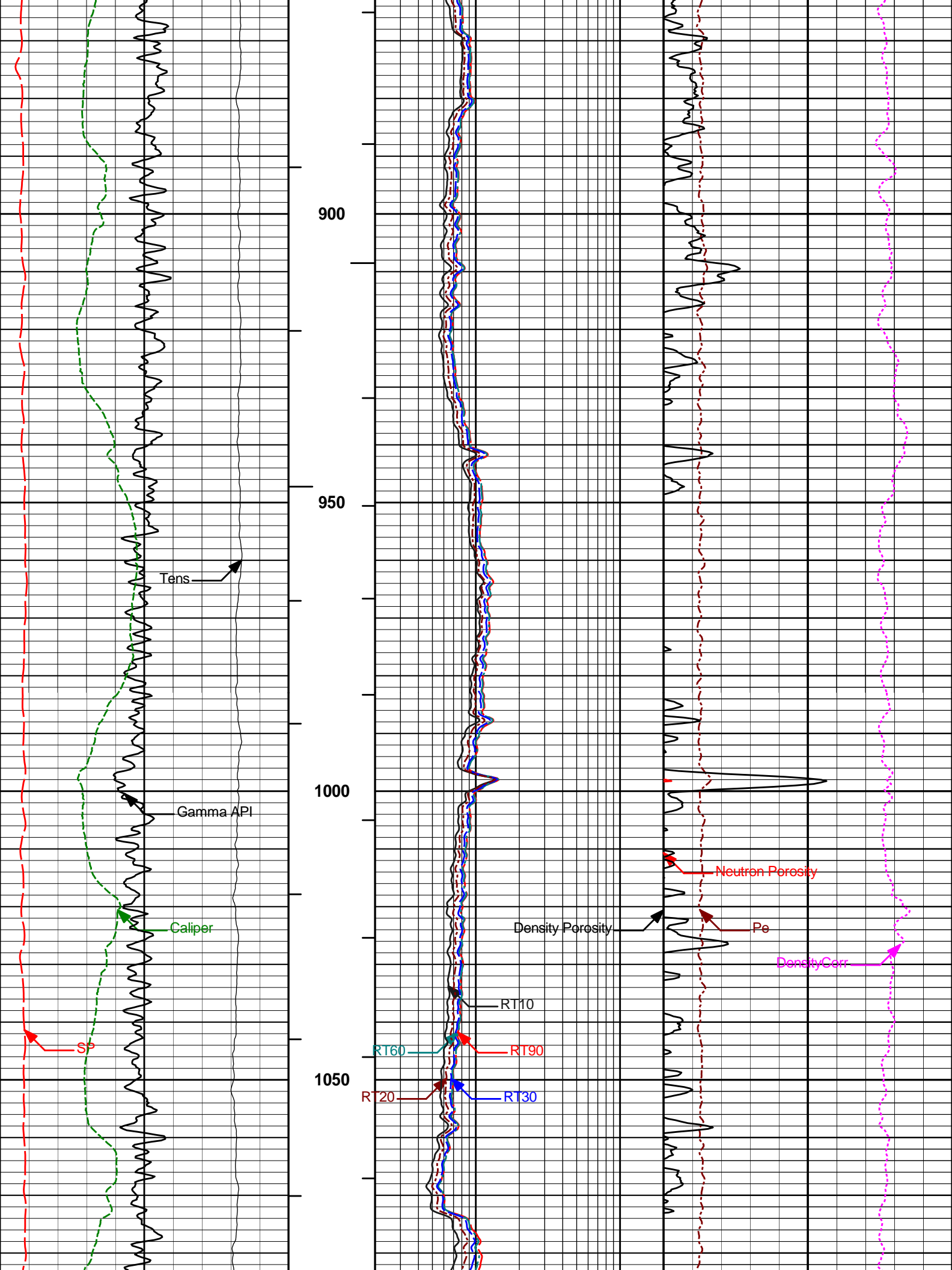
PARAMETERS REPORT

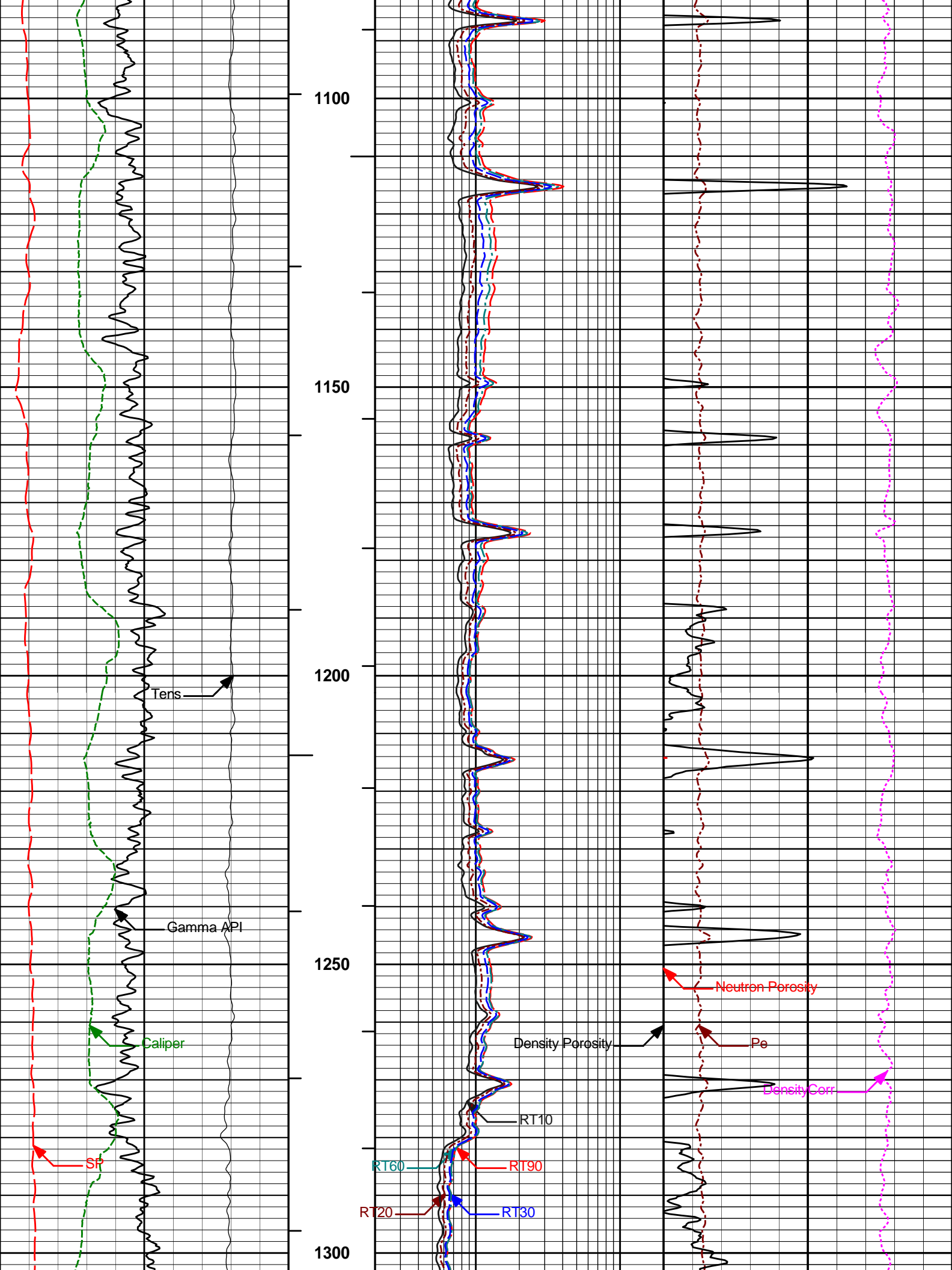
Depth (ft)	Tool Name	Mnemonic	Description	Value	Units
TOP					
	DSNT	NLIT	Neutron Lithology	Sandstone	
	SDLT Pad	DMA	Formation Density Matrix	2.680	g/cc
7536.00					
	DSNT	NLIT	Neutron Lithology	Limestone	
	SDLT Pad	DMA	Formation Density Matrix	2.710	g/cc
7861.00					
	SHARED	BS	Bit Size	7.875	in
	SHARED	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	1600.00	ppm
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%
	SHARED	RMUD	Mud Resistivity	1.540	ohmm
	SHARED	TRM	Temperature of Mud	56.0	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	8002.00	ft
	SHARED	BHT	Bottom Hole Temperature	189.0	degF
	SHARED	SVTM	Navigation and Survey Master Tool	NONE	

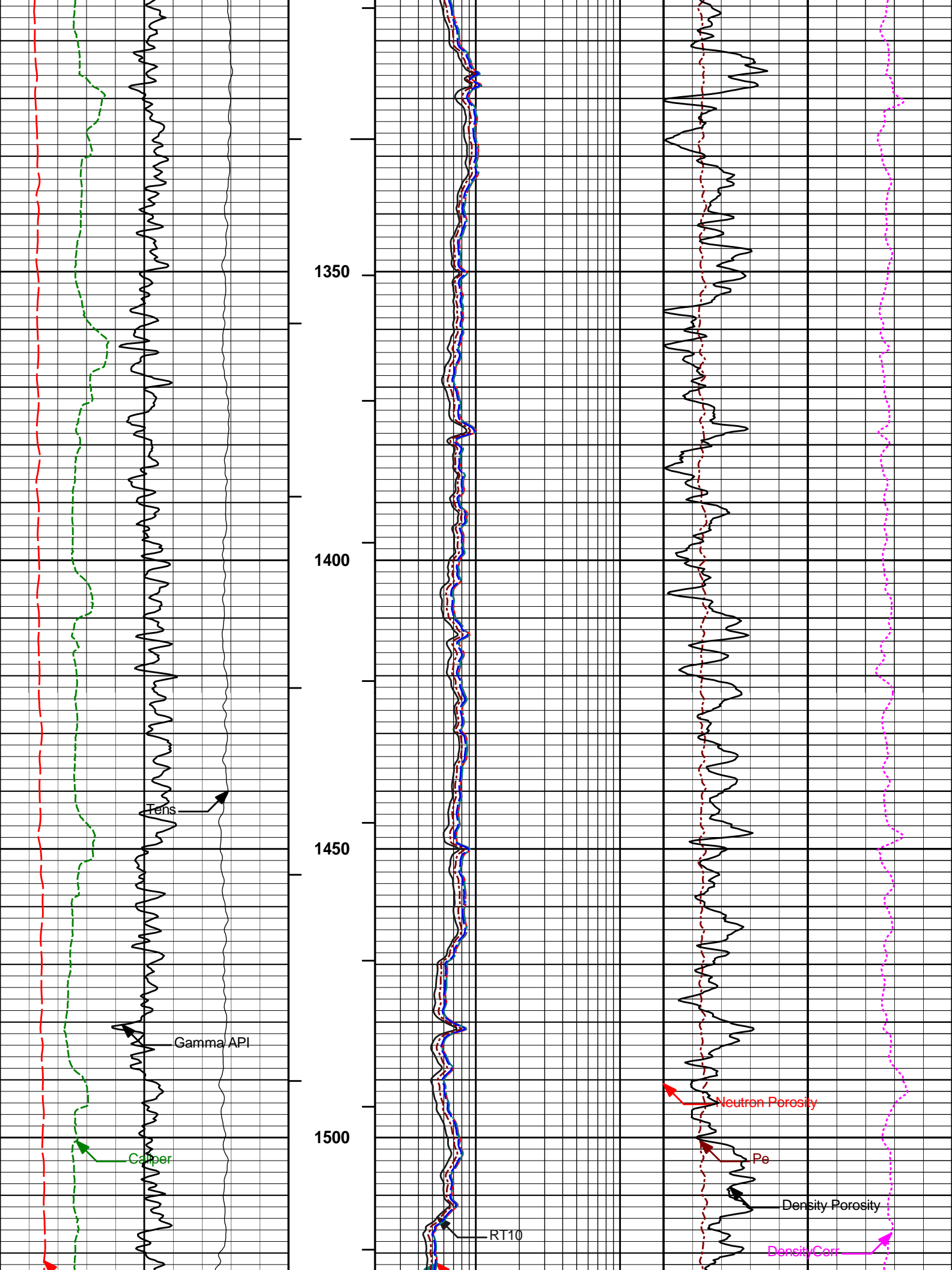
SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET	
SHARED	TEMM	Temperature Master Tool	NONE	
SHARED	BHSM	Borehole Size Master Tool	NONE	
Rwa / CrossPlot	XPOK	Process Crossplot?	Yes	
Rwa / CrossPlot	FCHO	Select Source of F	Automatic	
Rwa / CrossPlot	AFAC	Archie A factor	0.6200	
Rwa / CrossPlot	MFAC	Archie M factor	2.1500	
Rwa / CrossPlot	RMFR	Rmf Reference	1.01	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	1.01	ohmm
SimpleLithology	RMFT	Temperature of Mud Filtrate	75.00	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	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	0.10	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

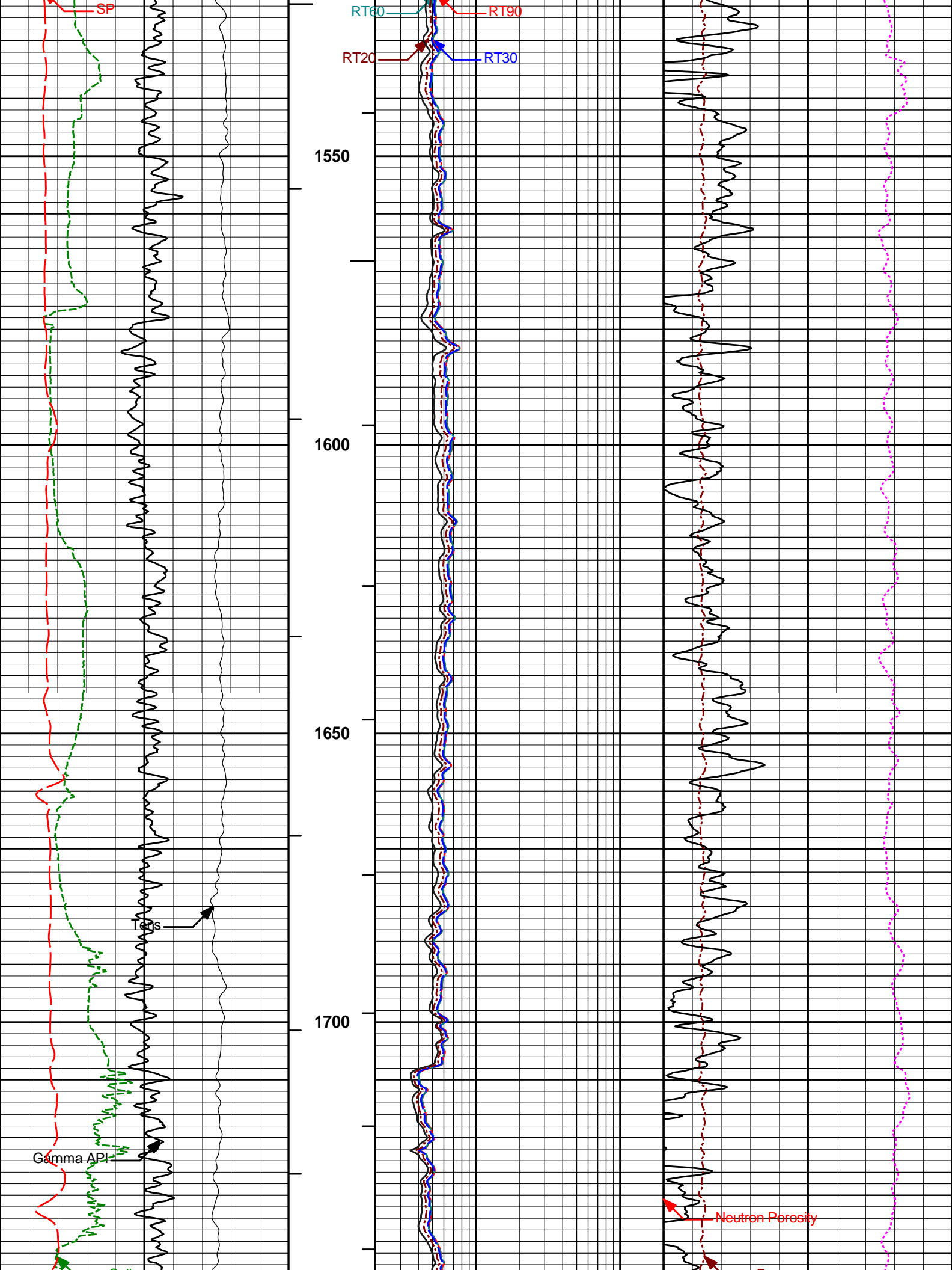
BOTTOM

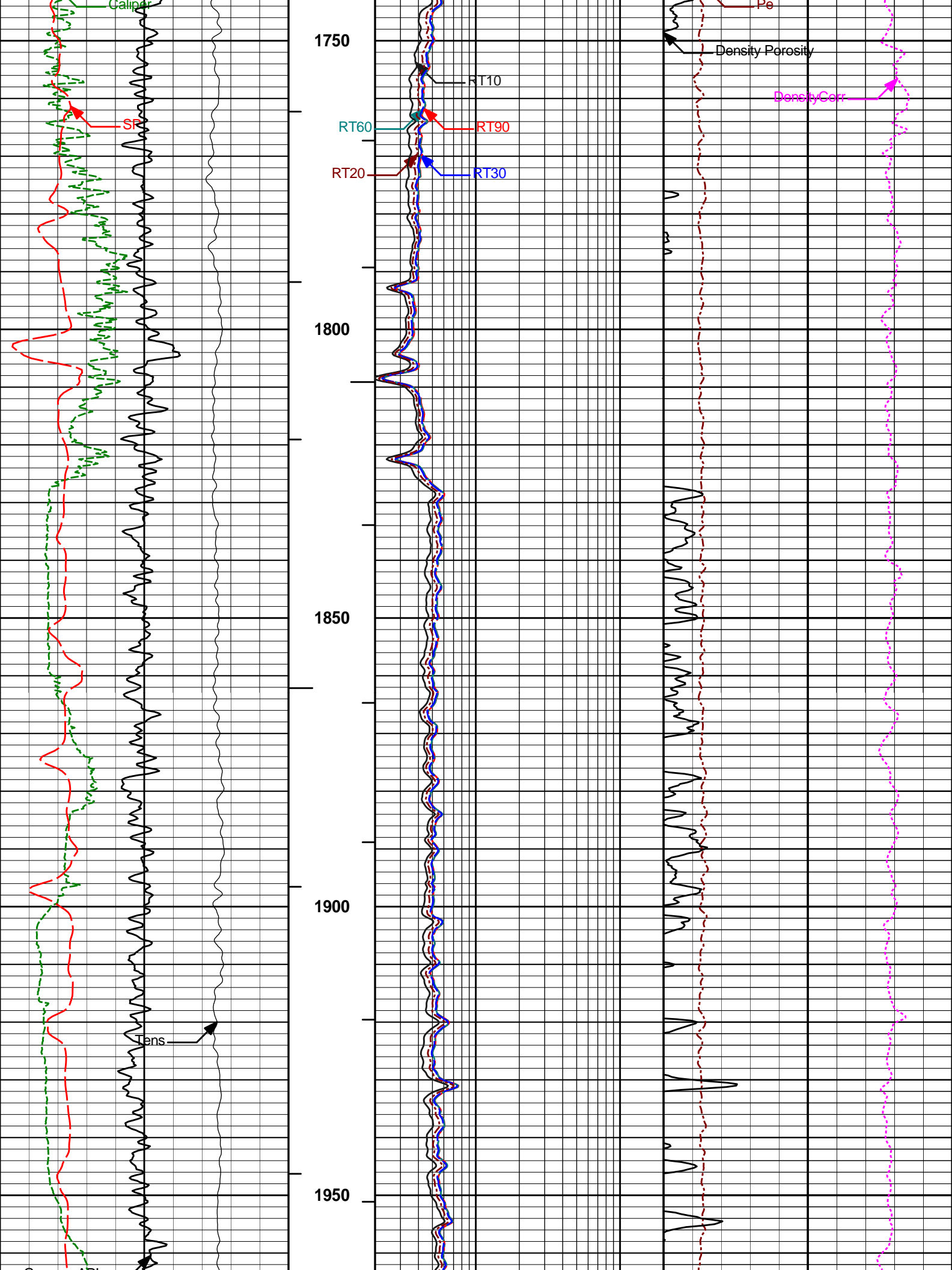


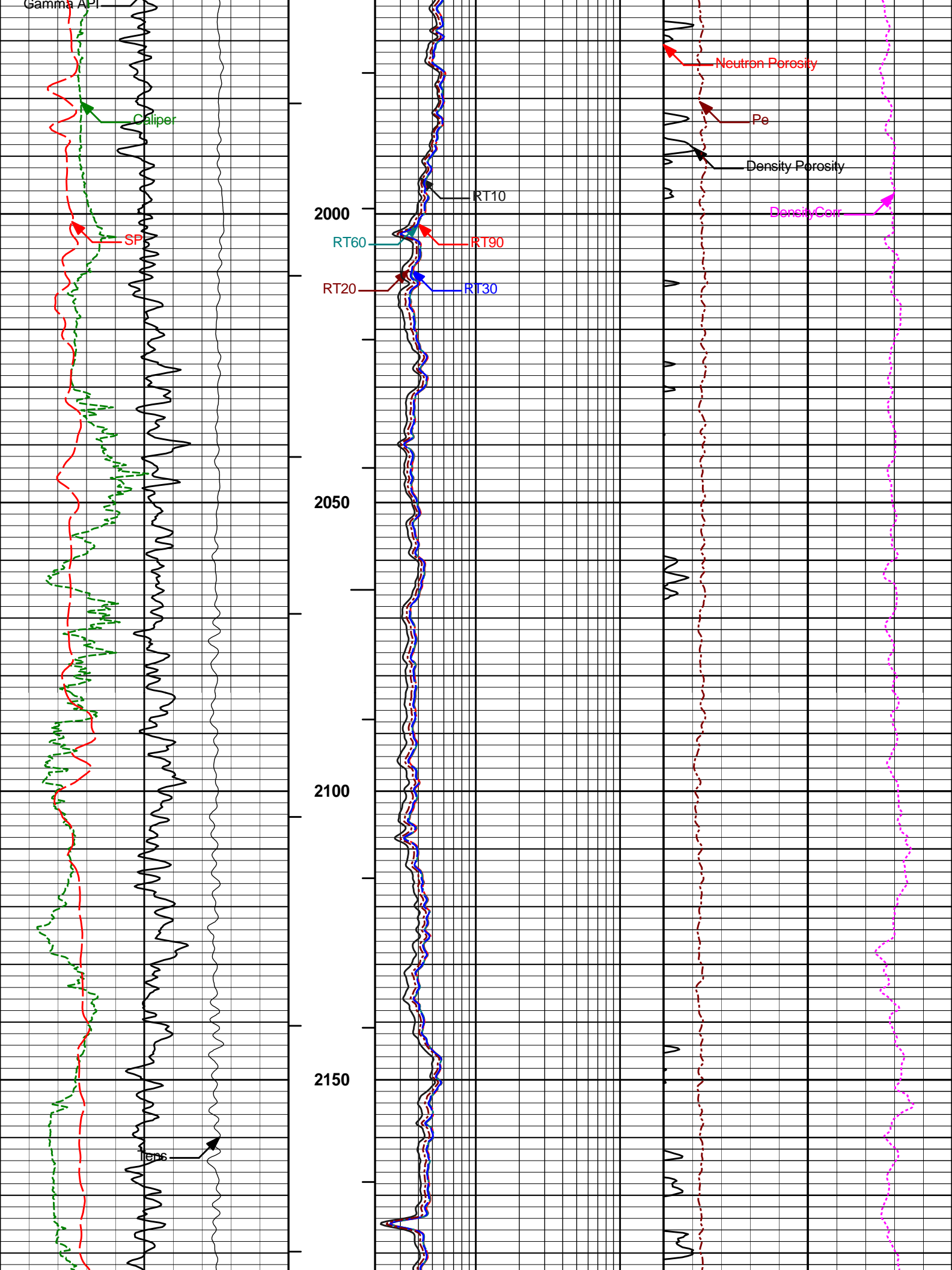


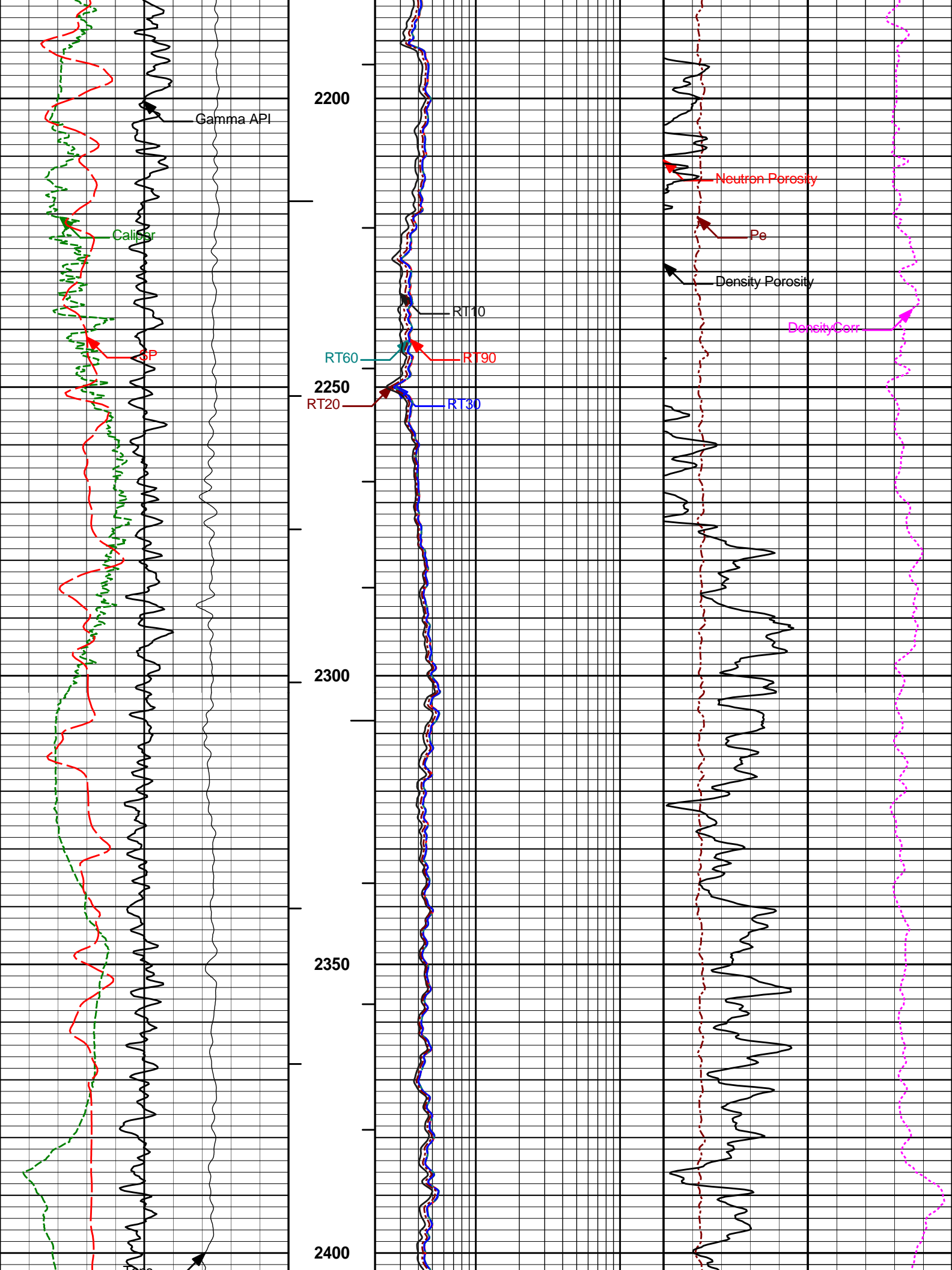


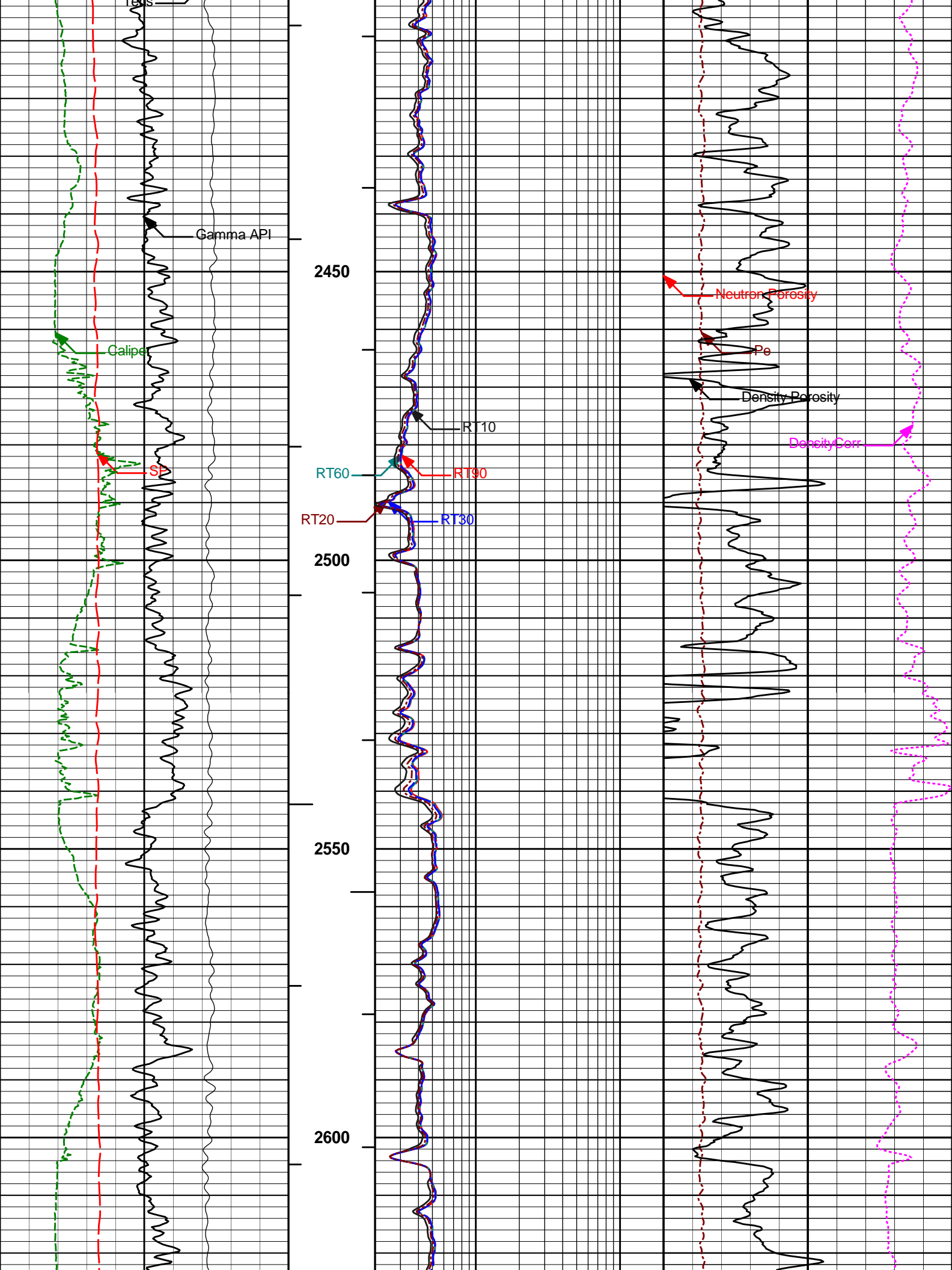


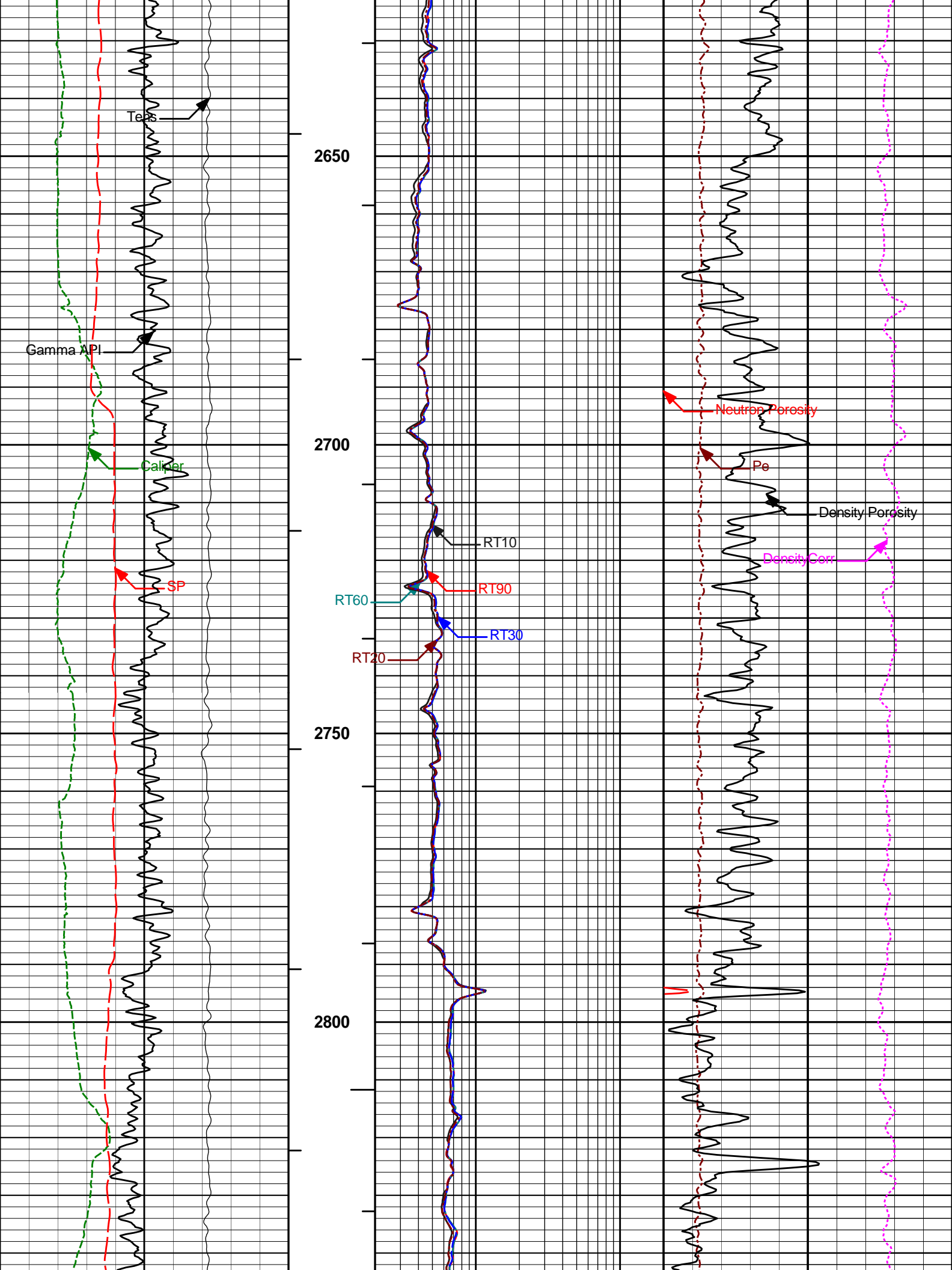


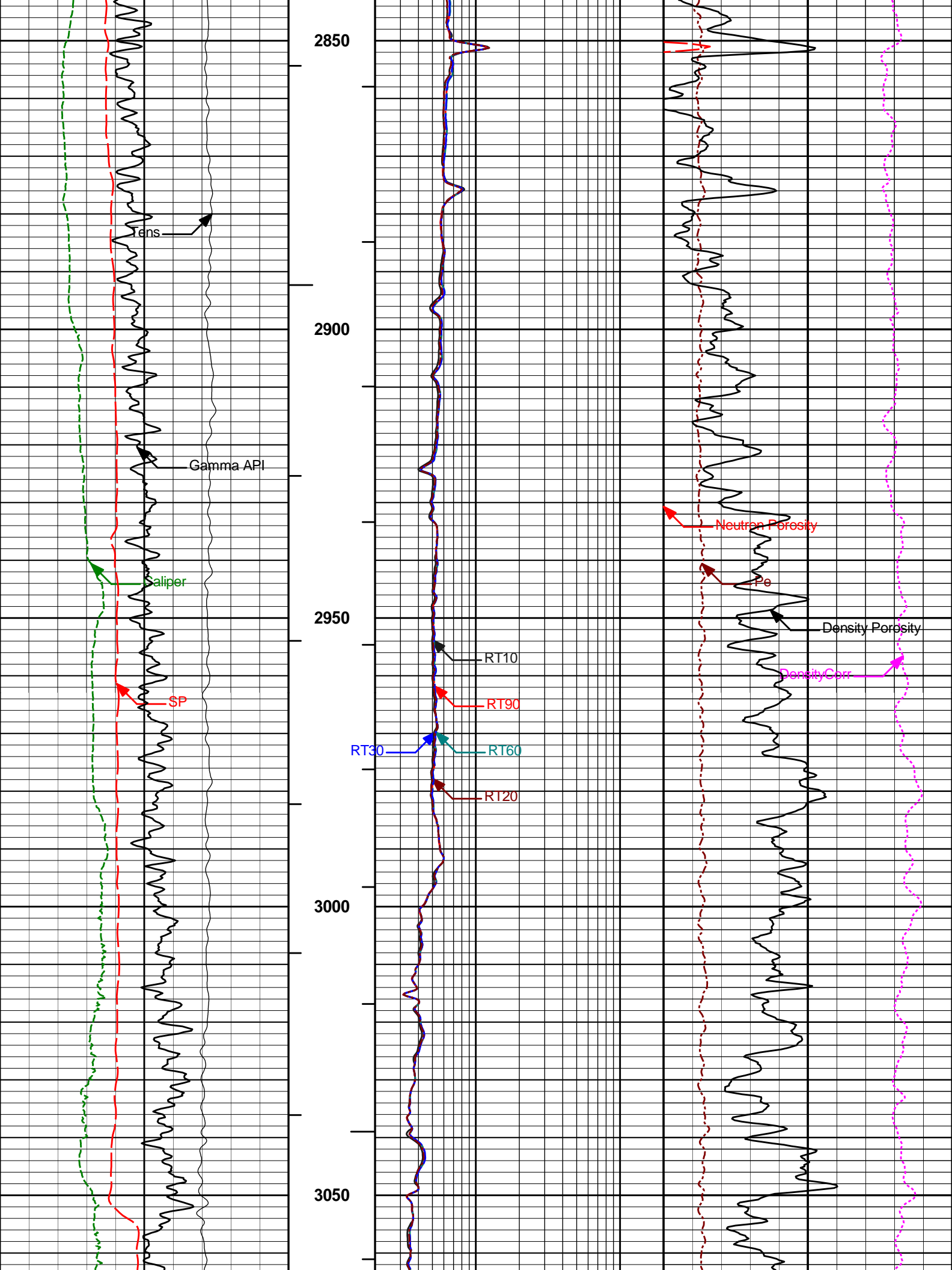


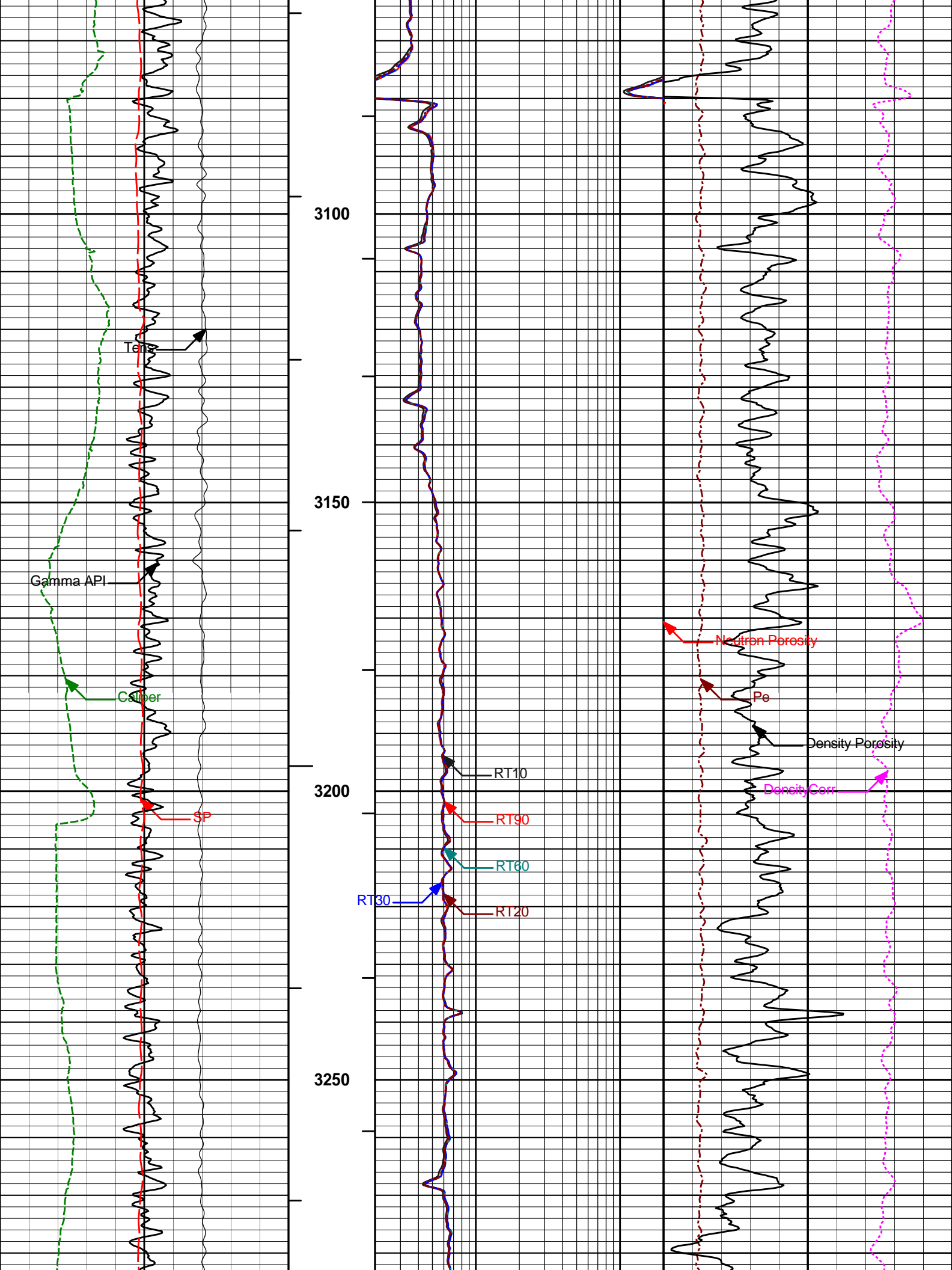


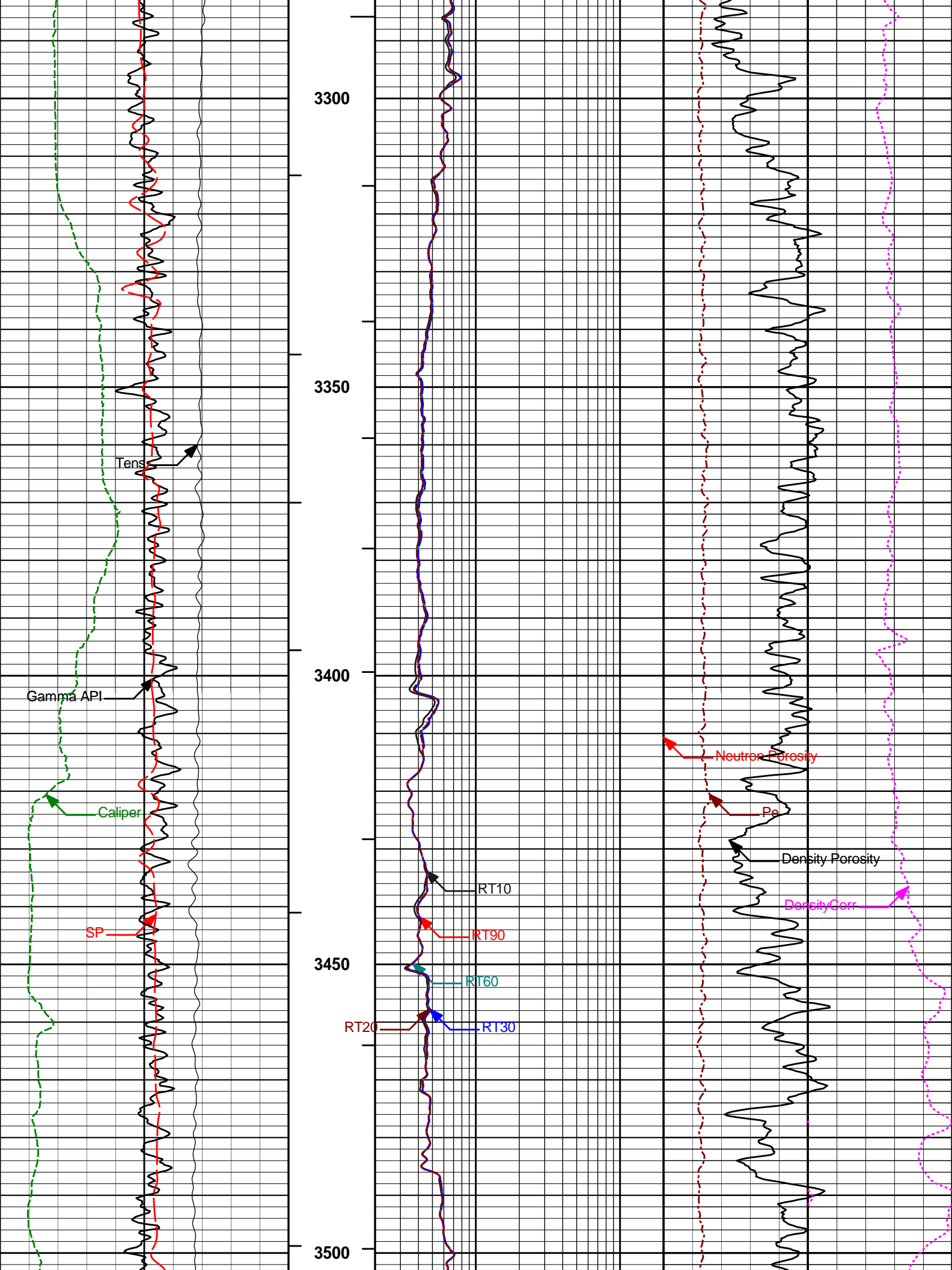


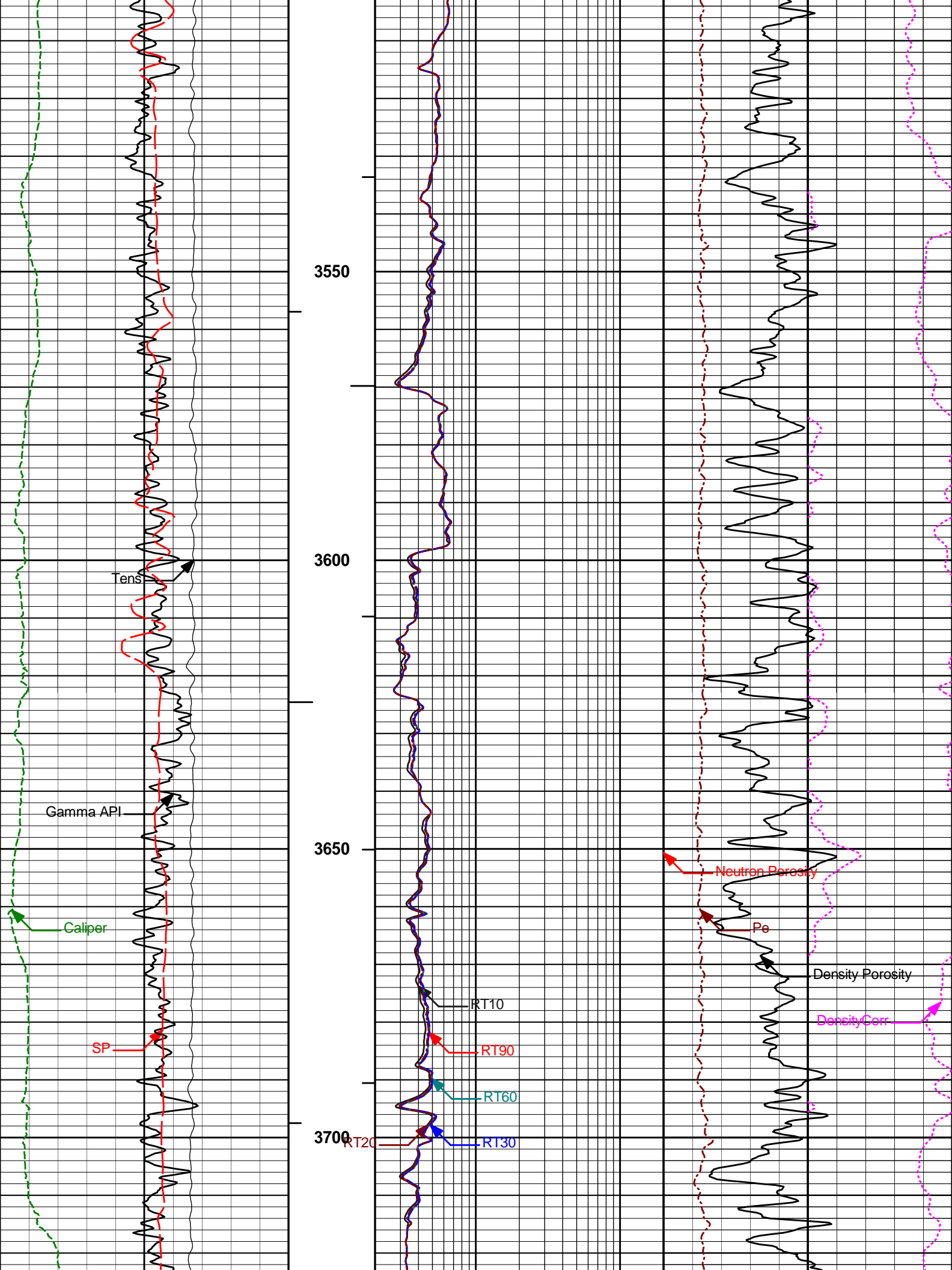


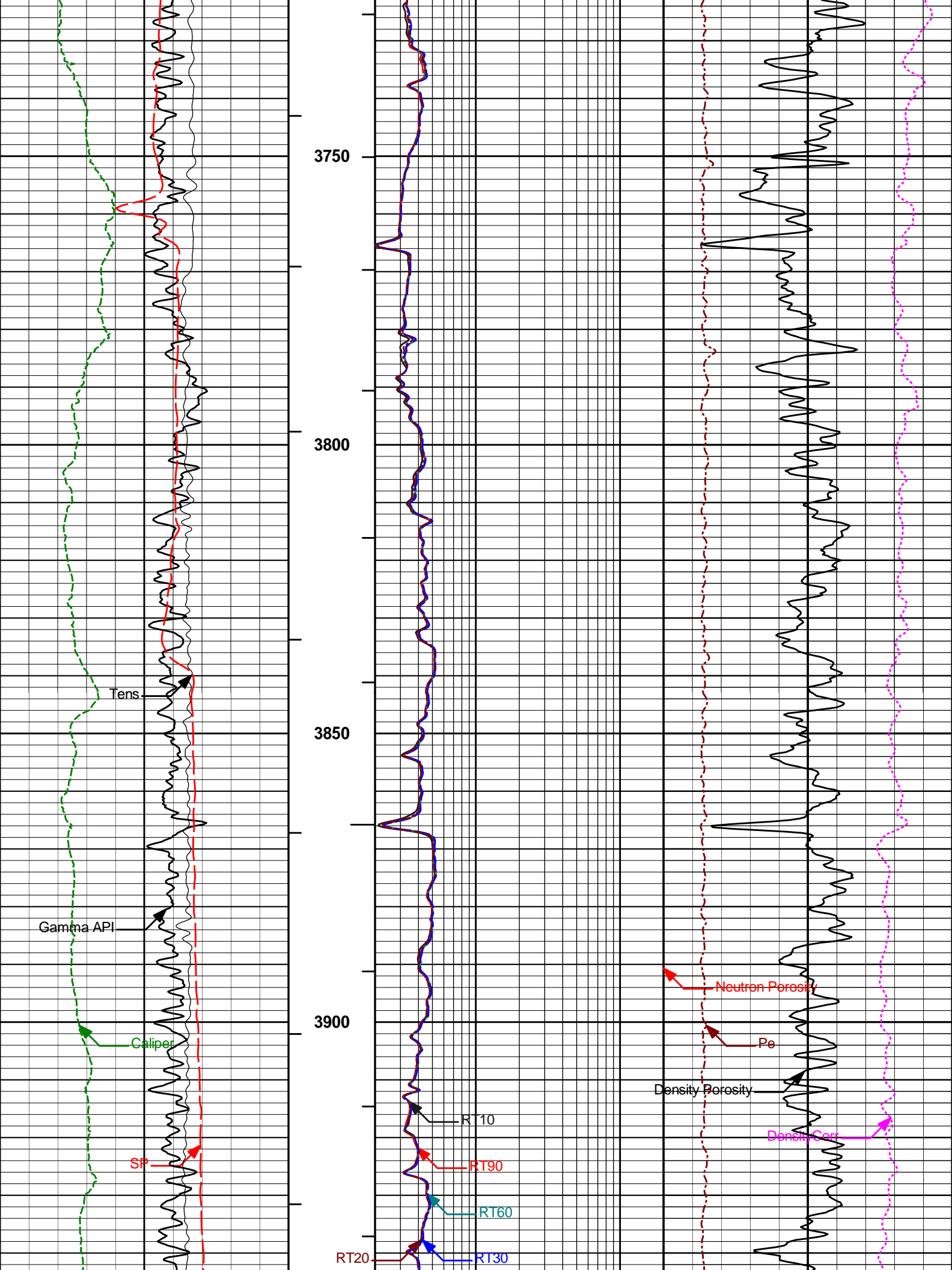


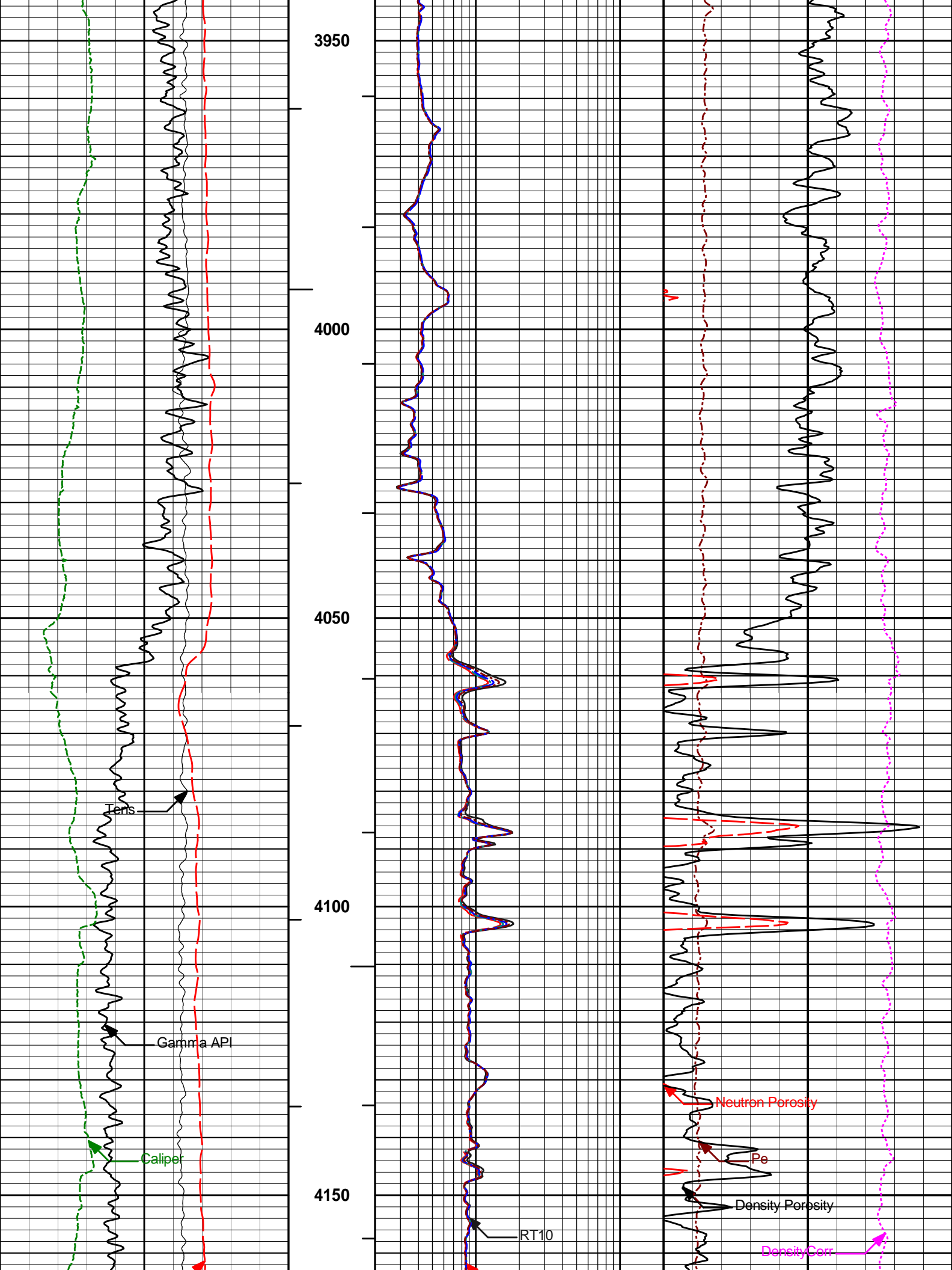


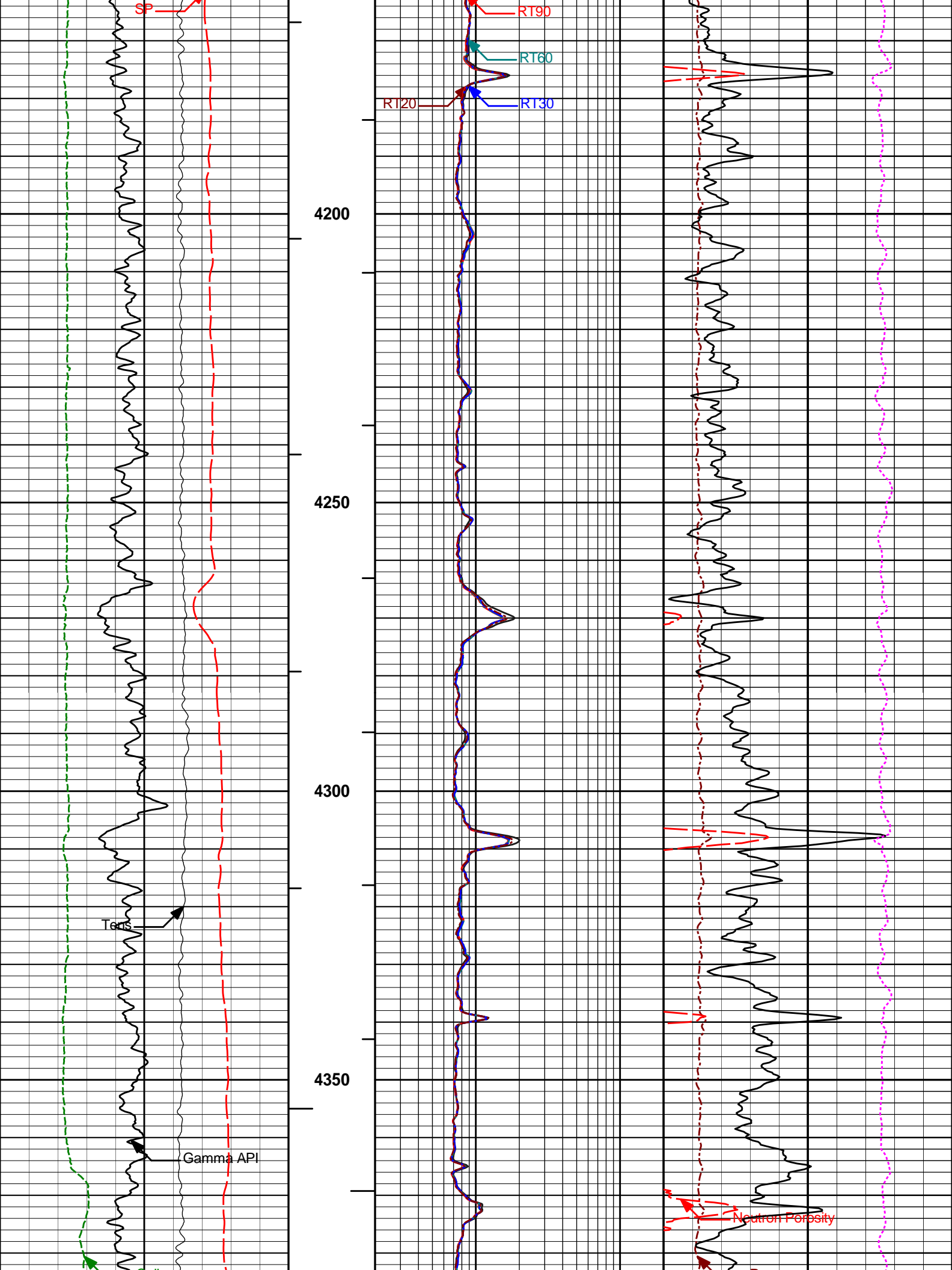


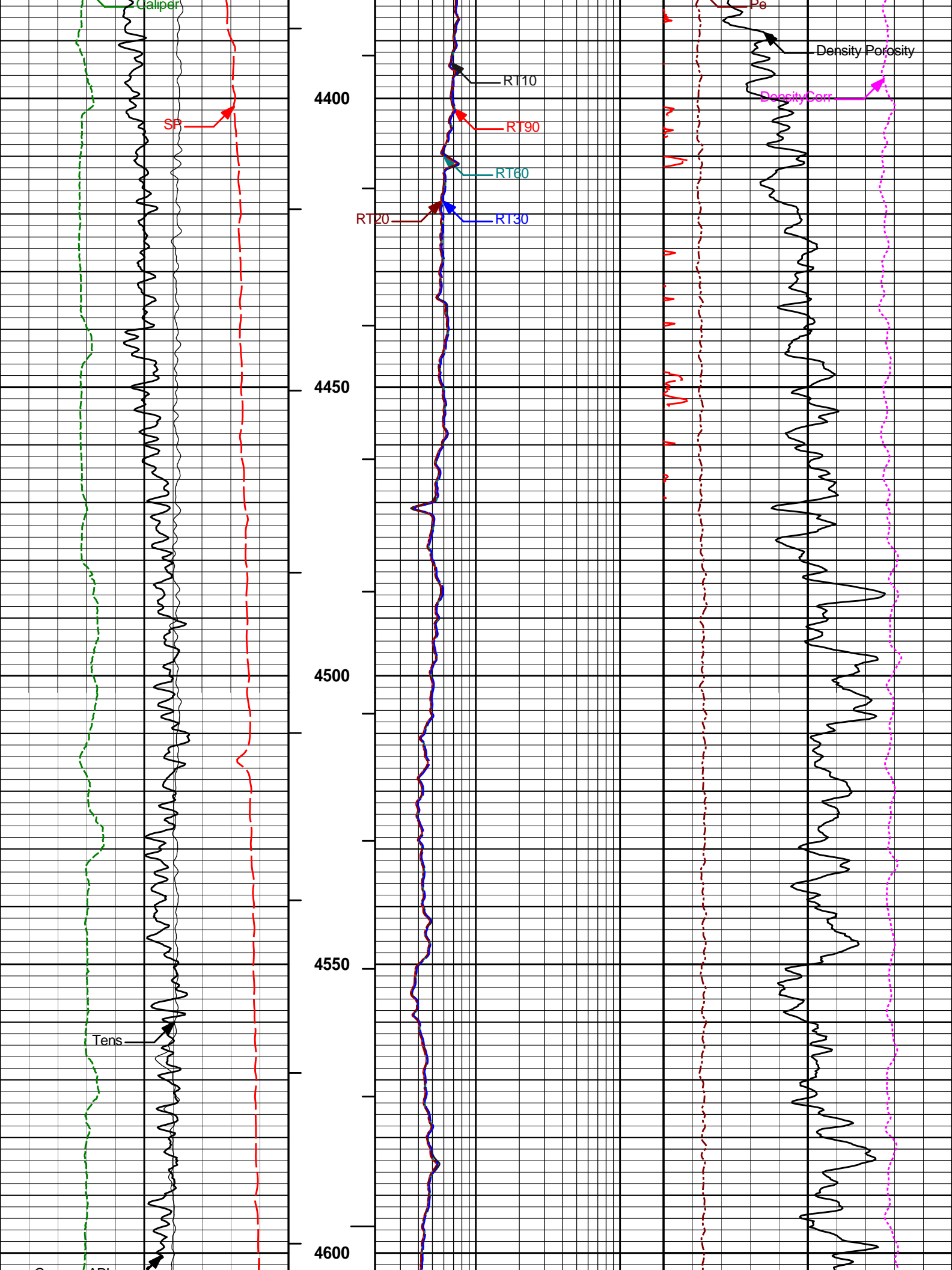


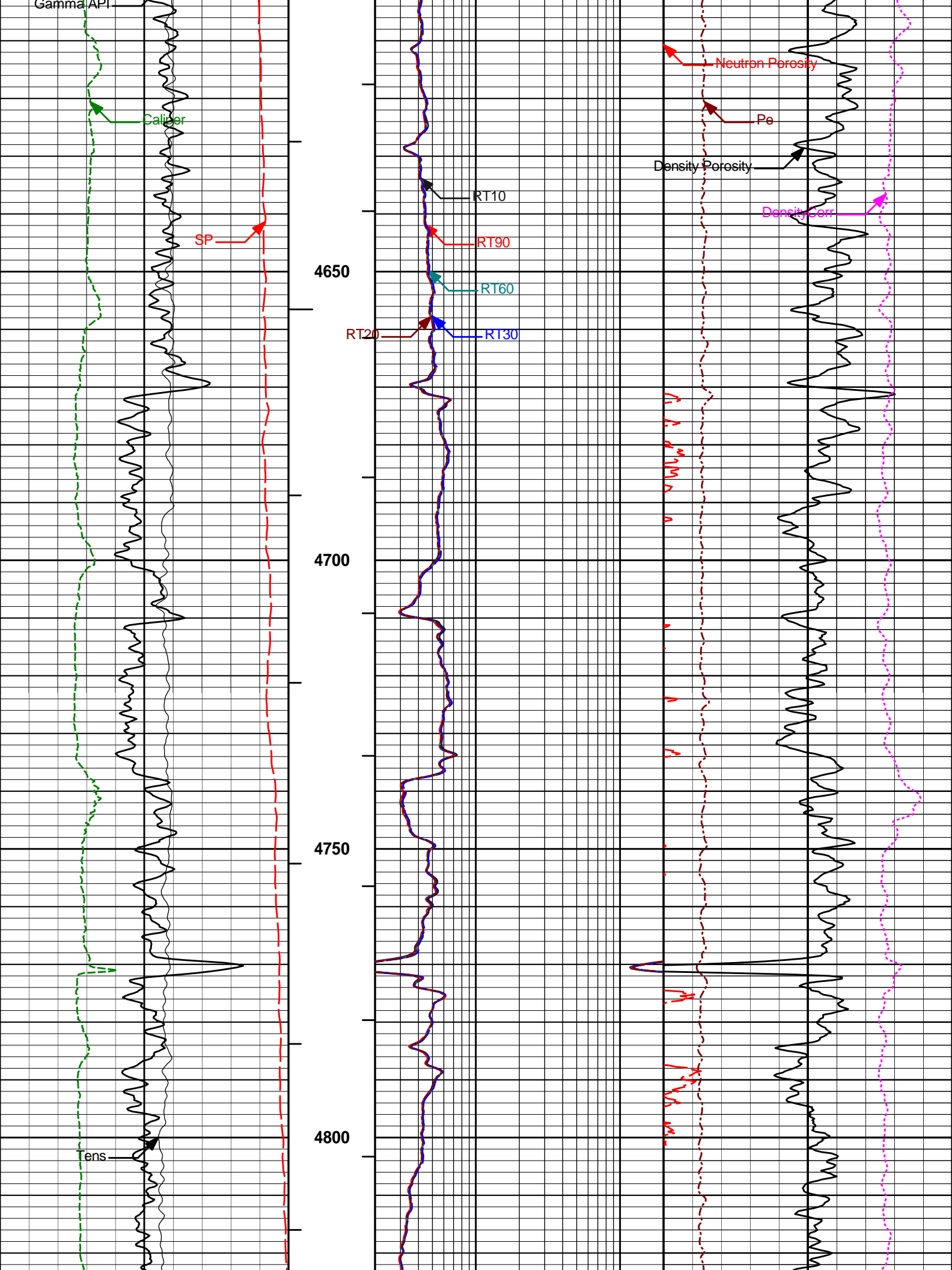


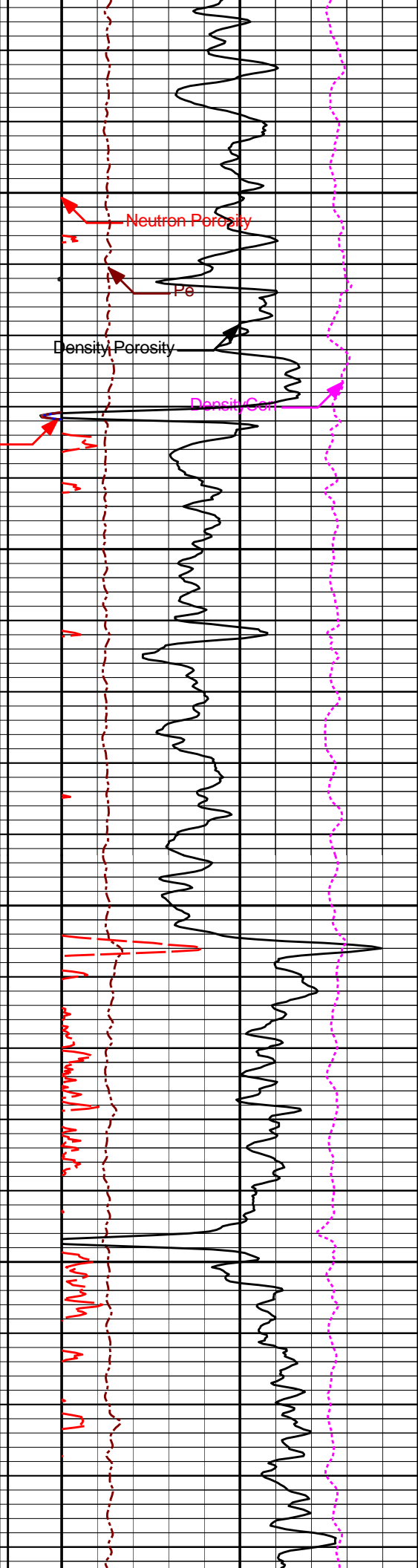
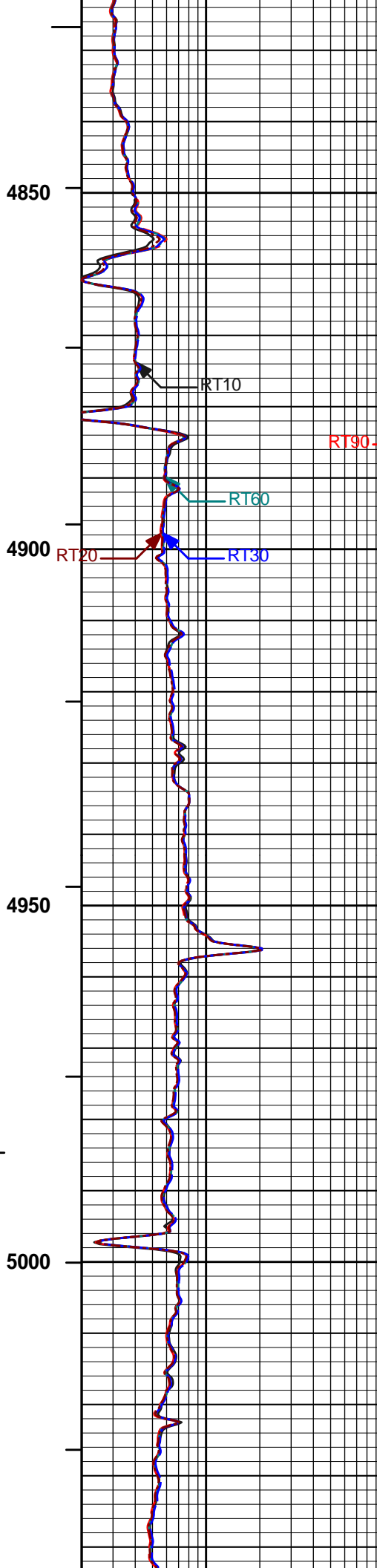
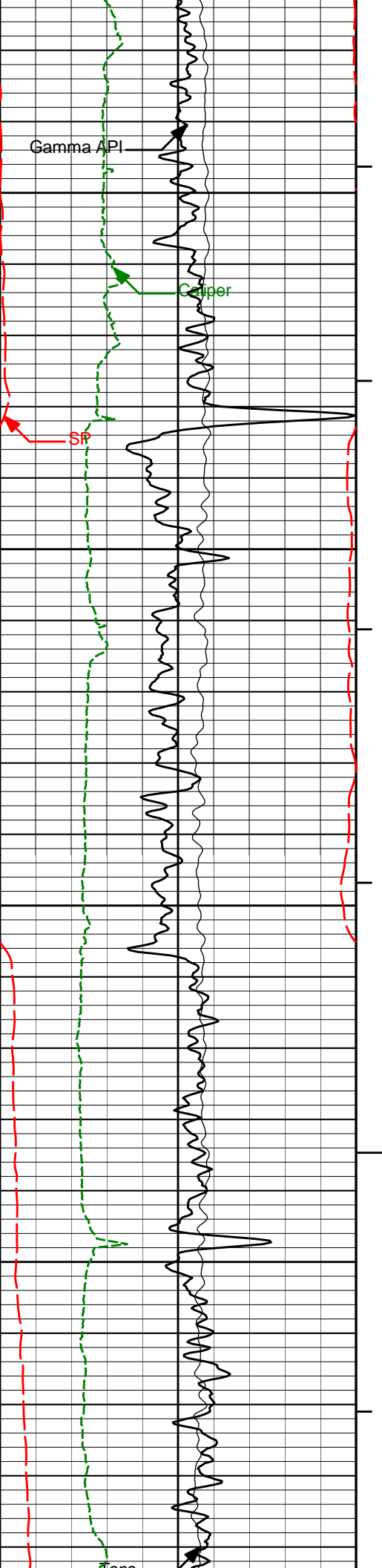


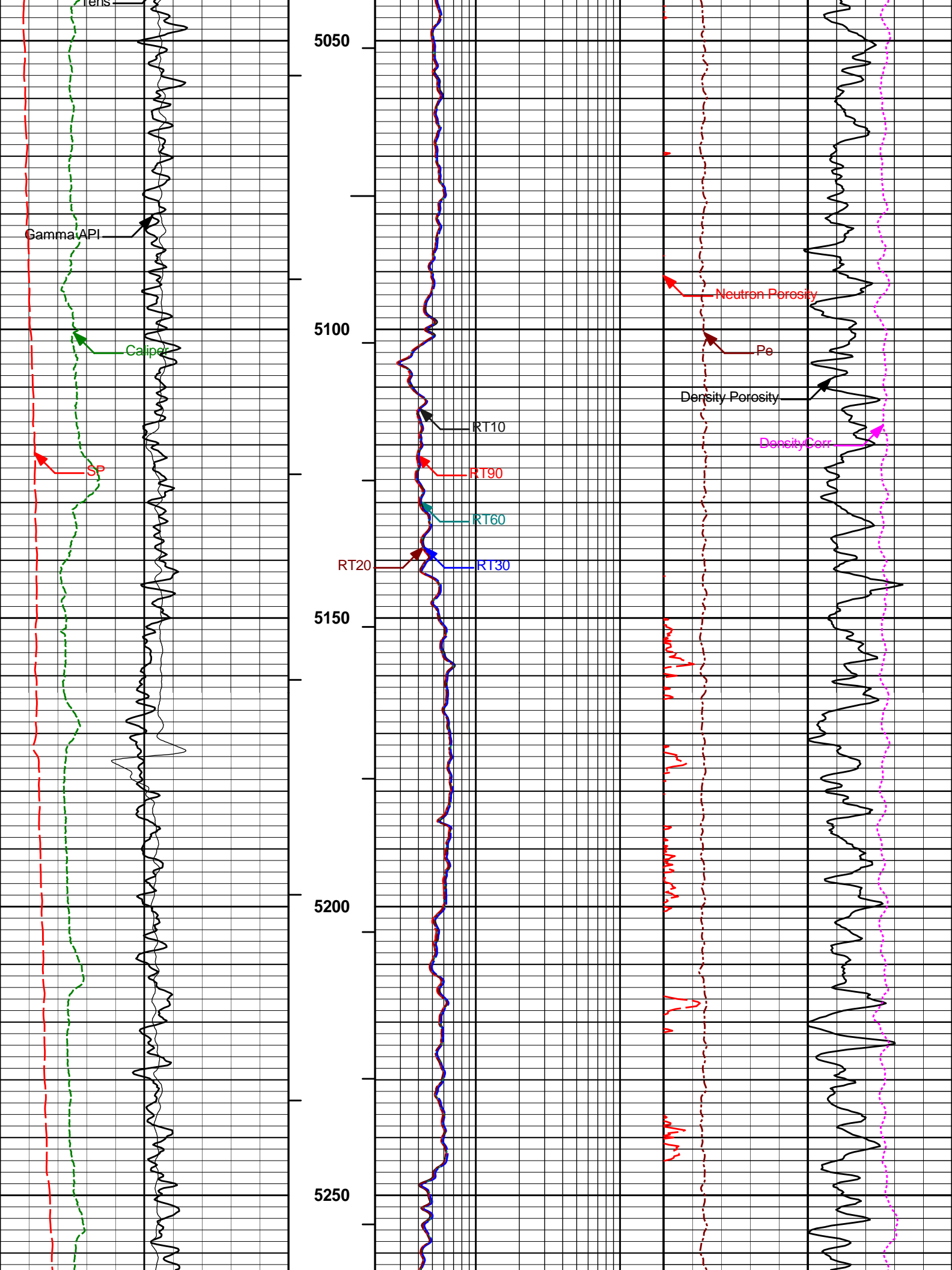


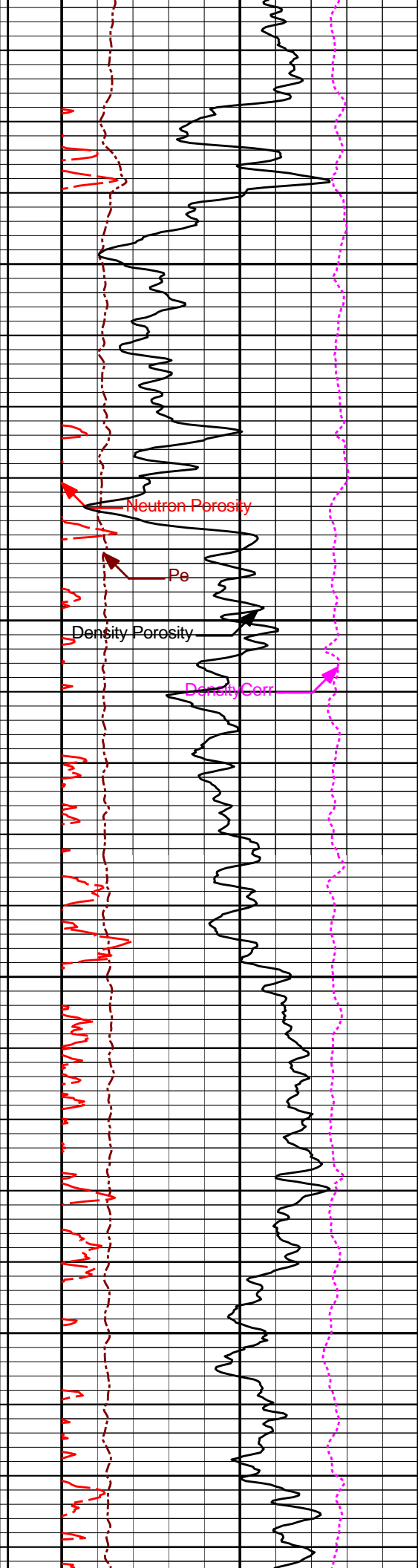
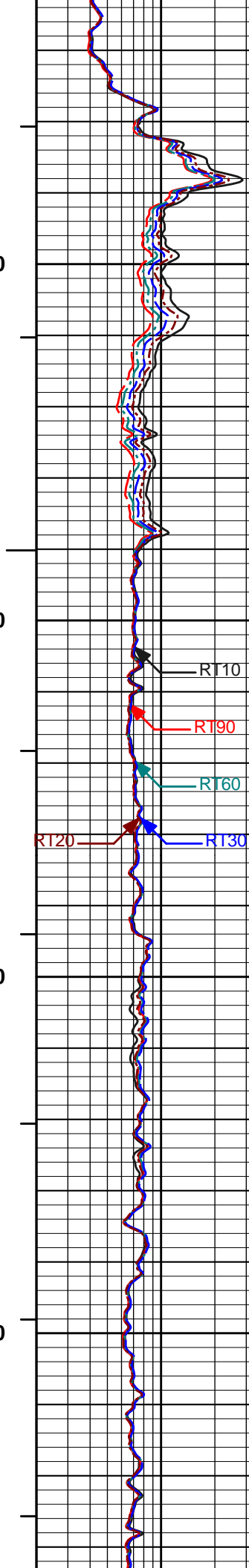
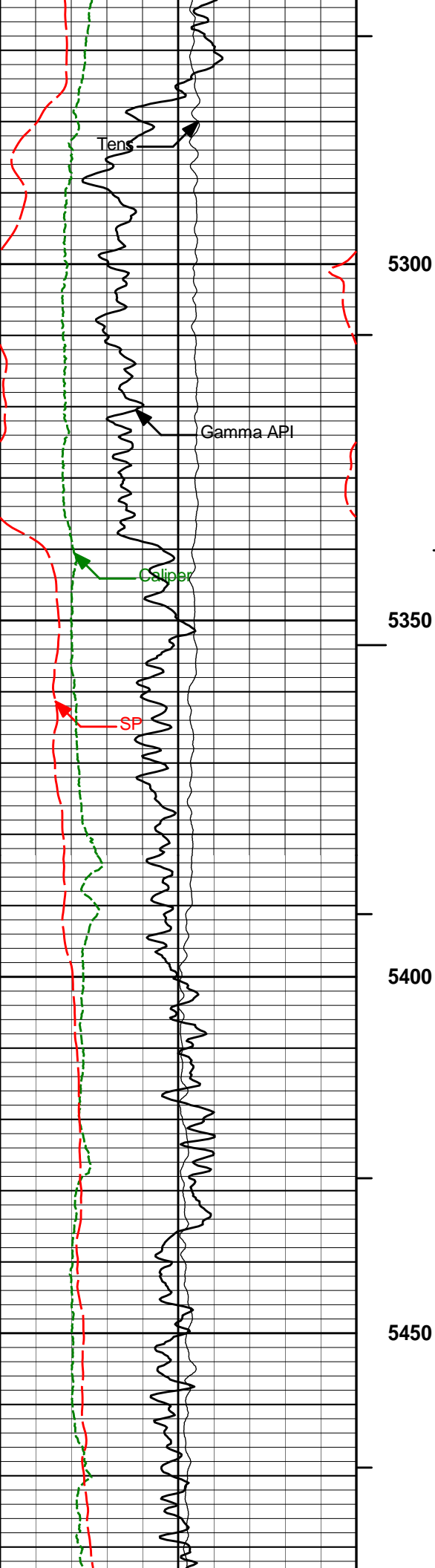


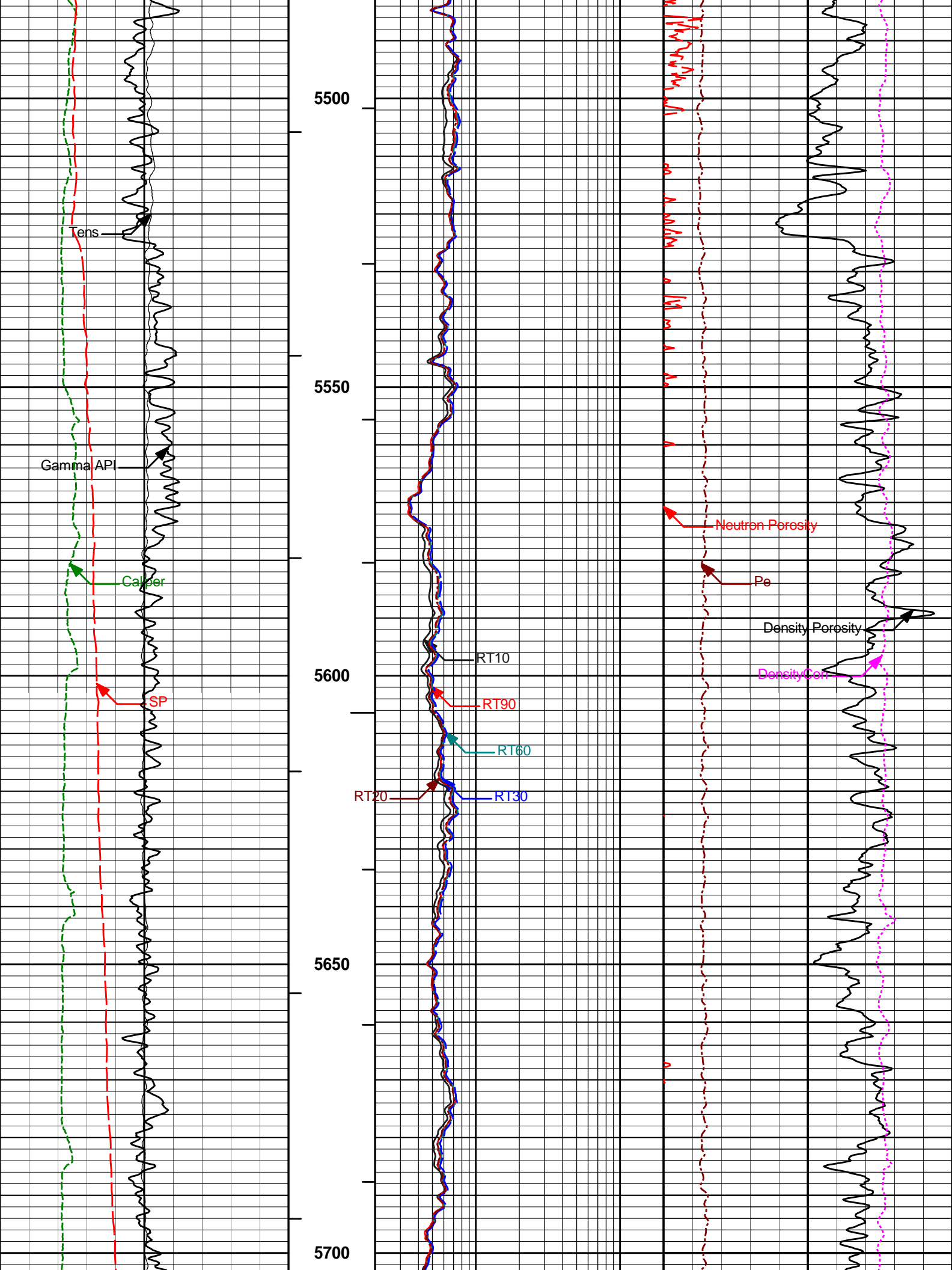


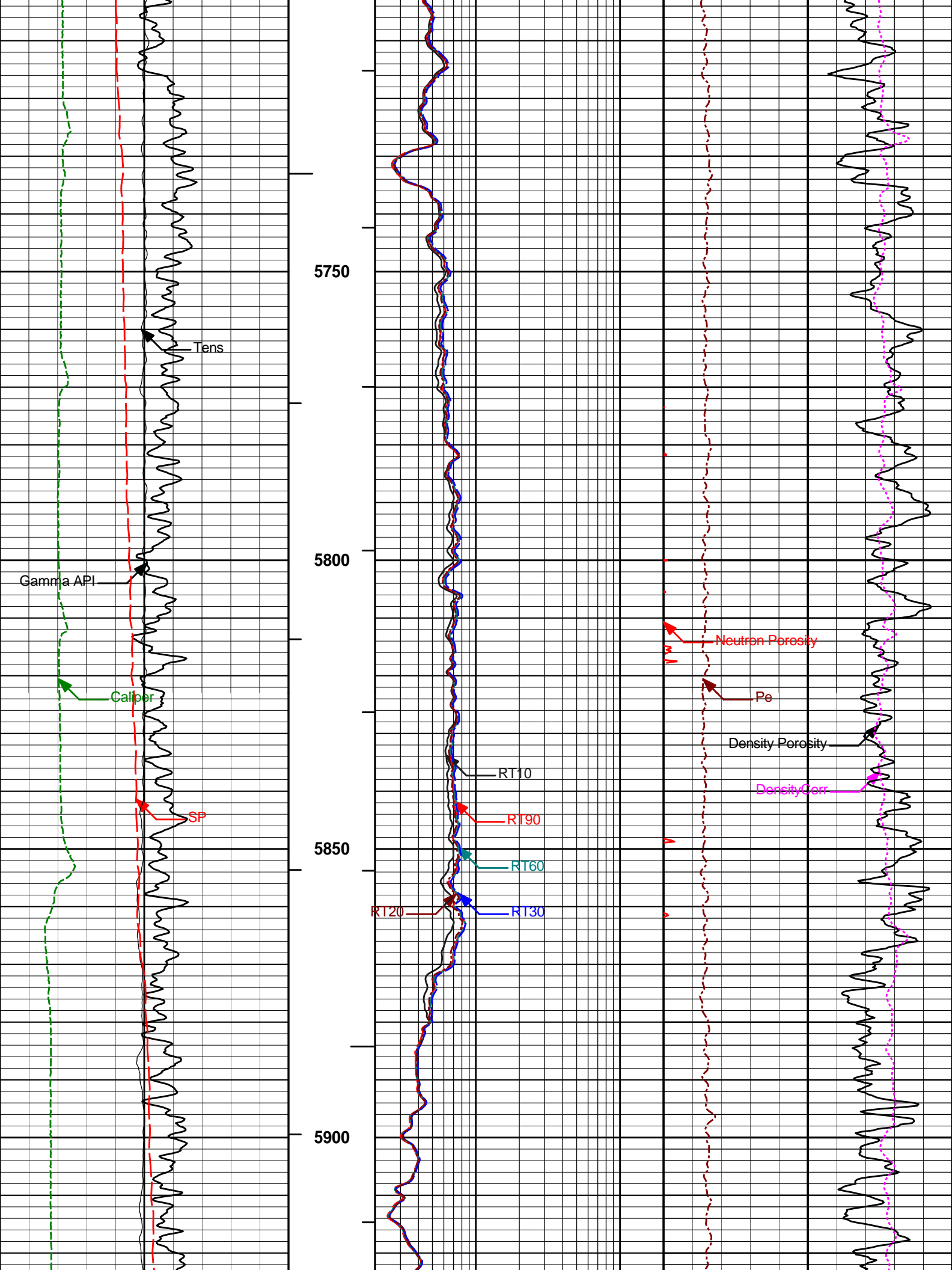


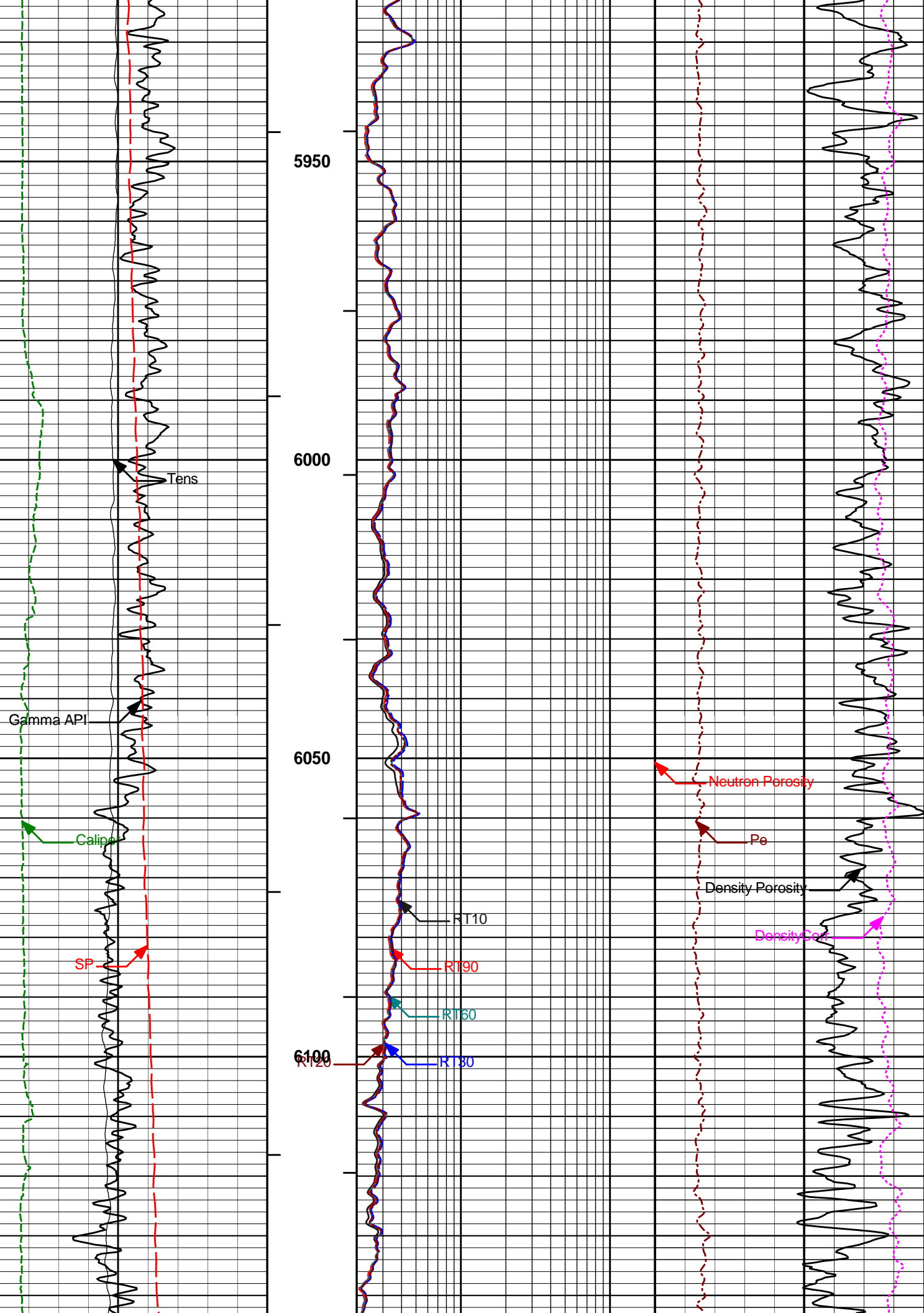


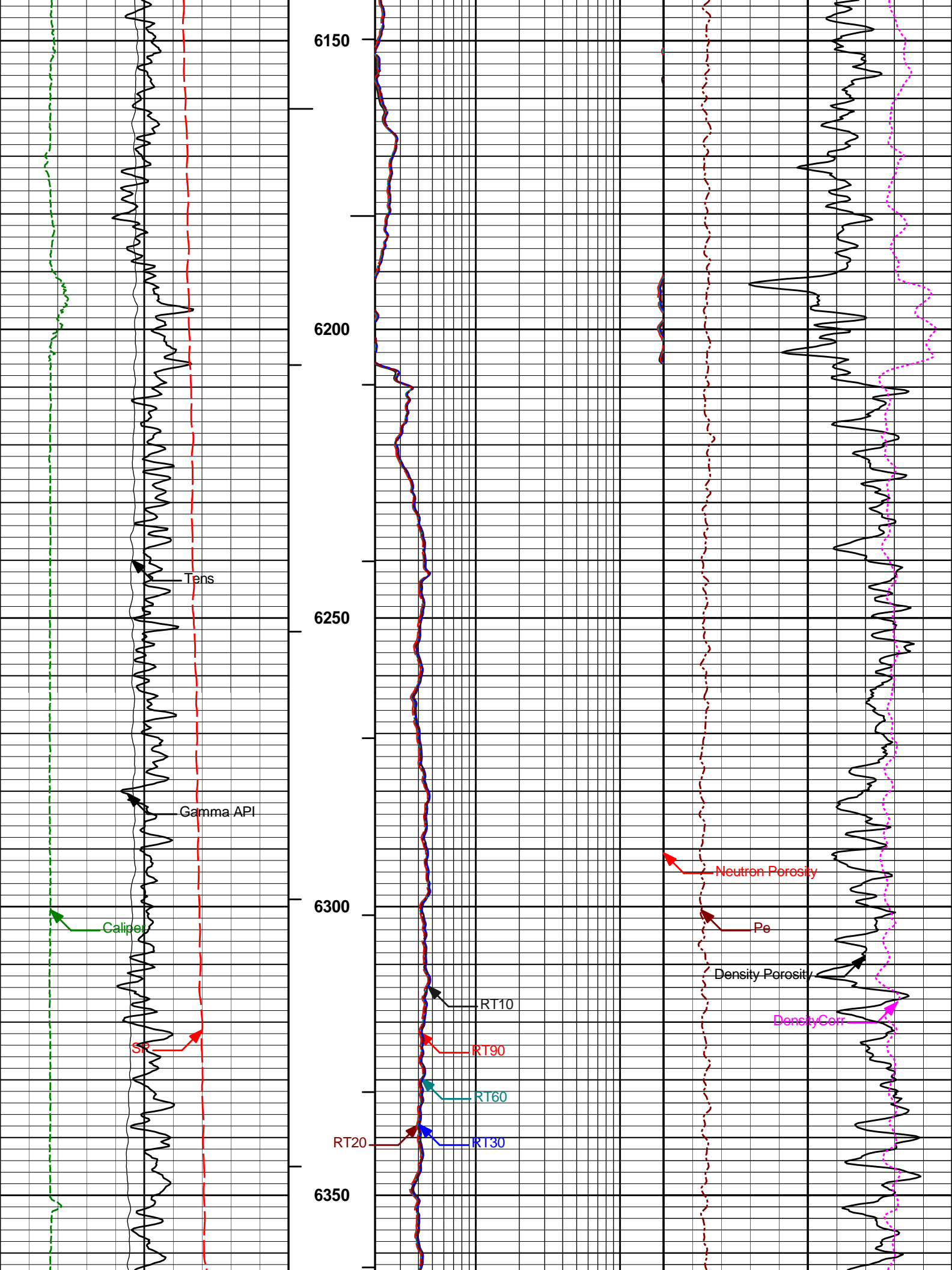


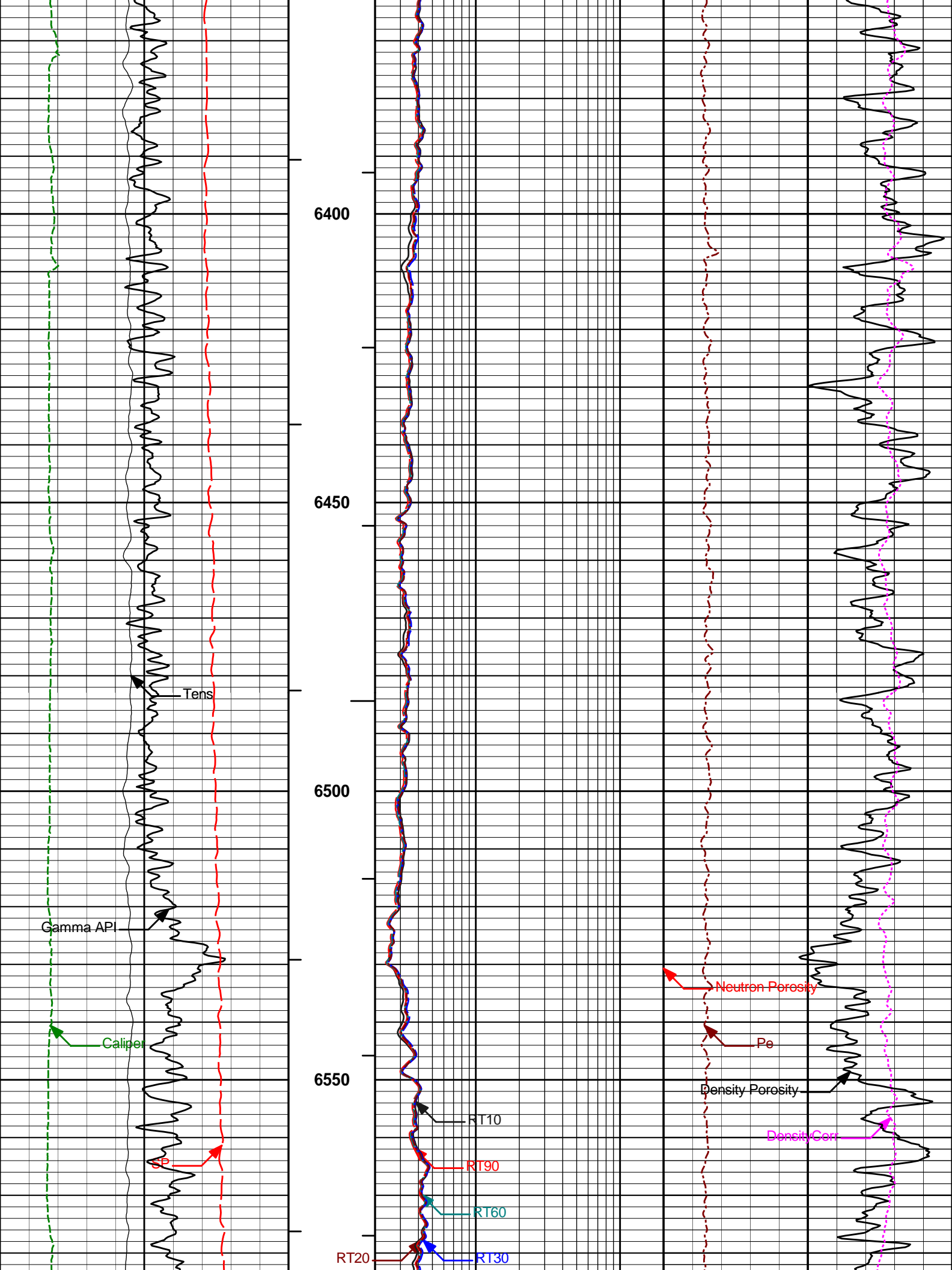


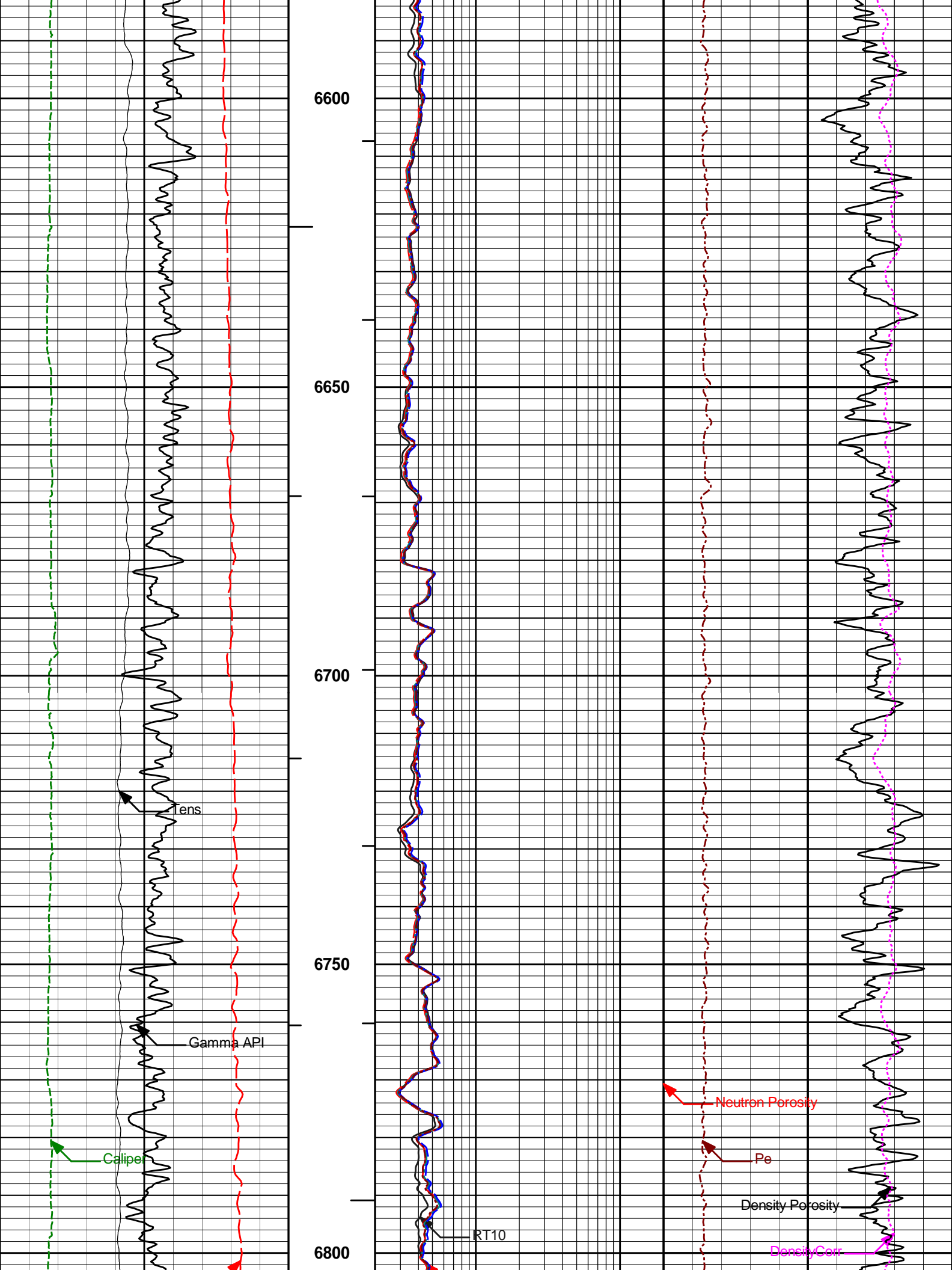


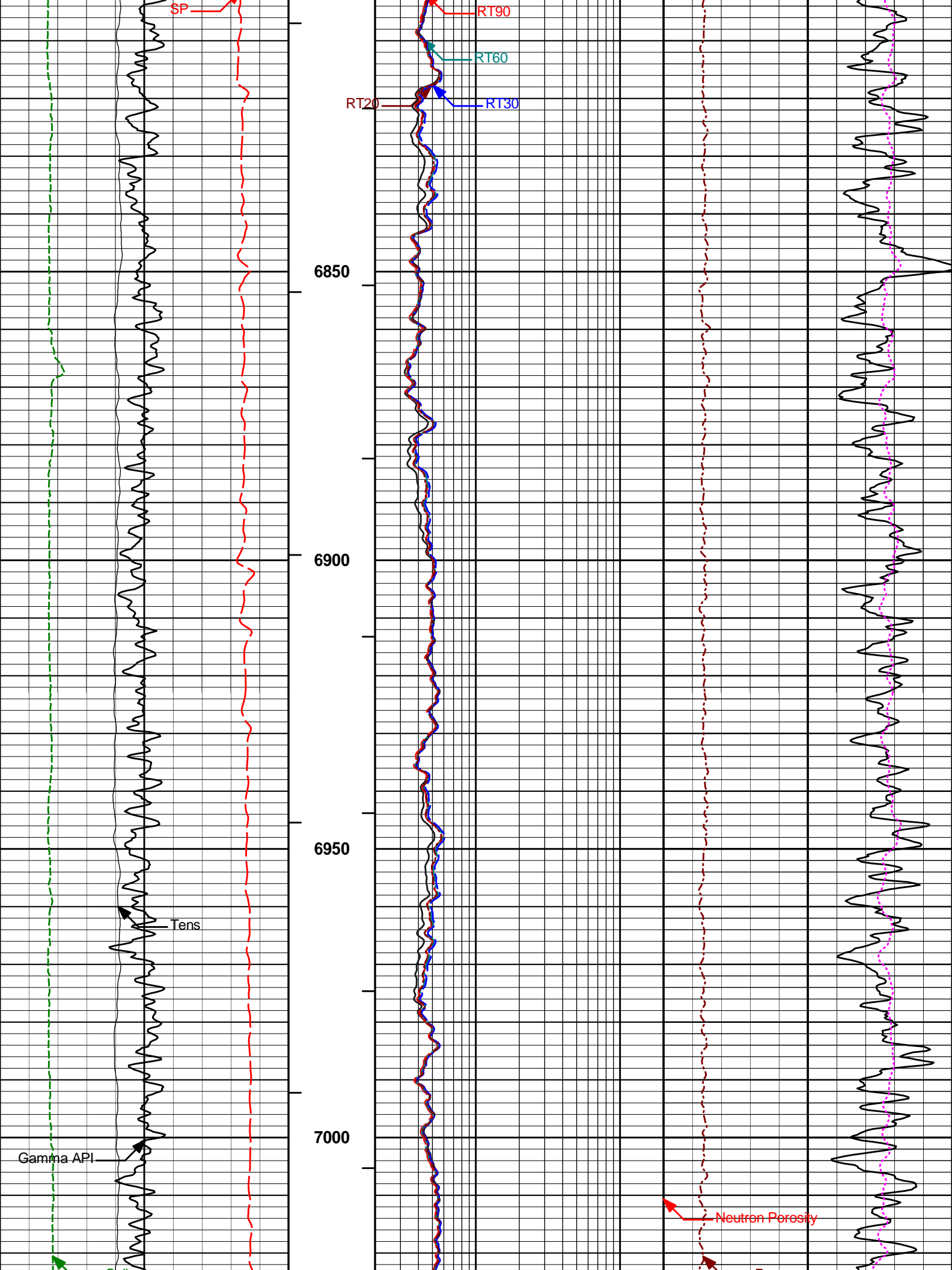


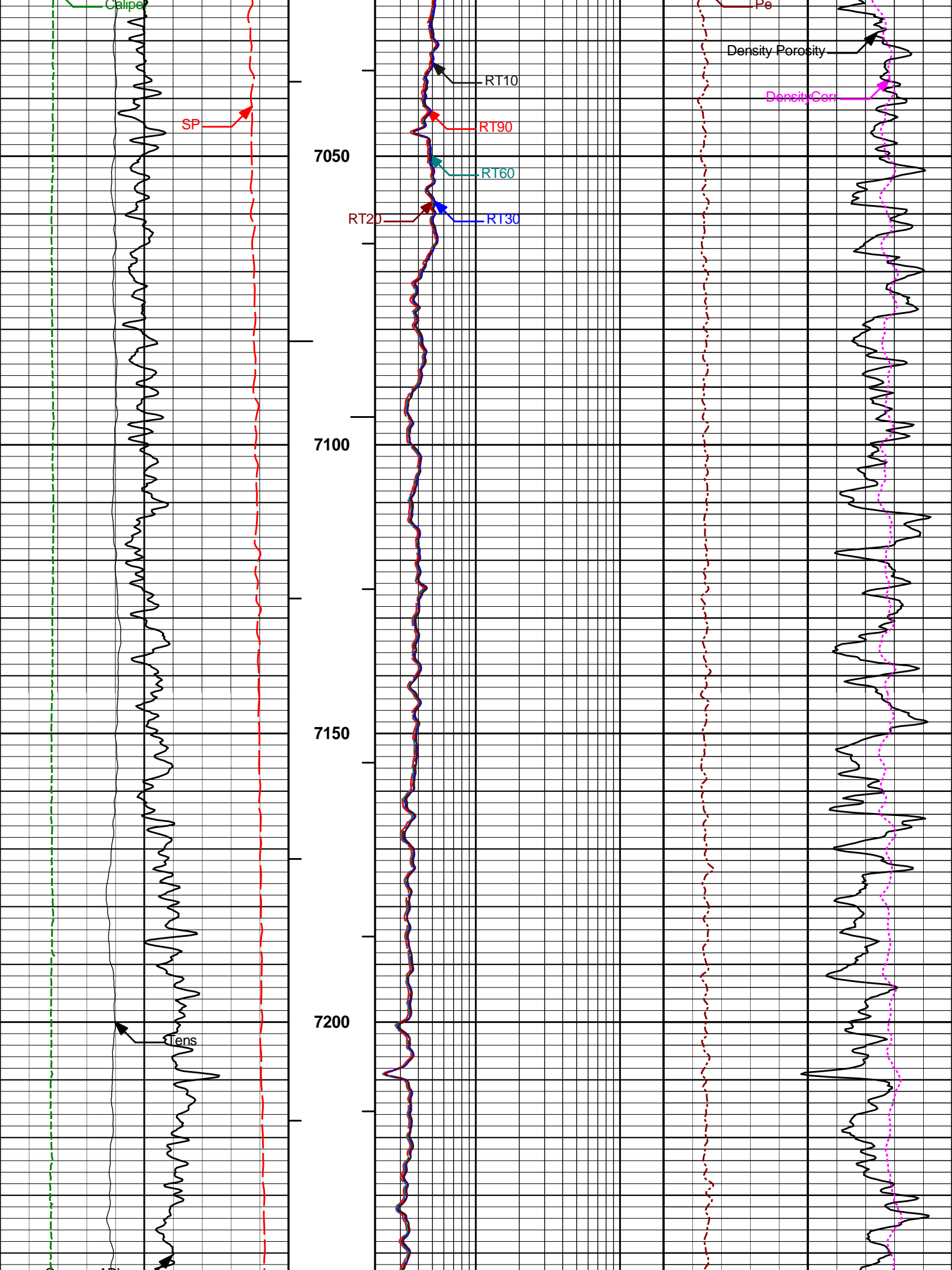


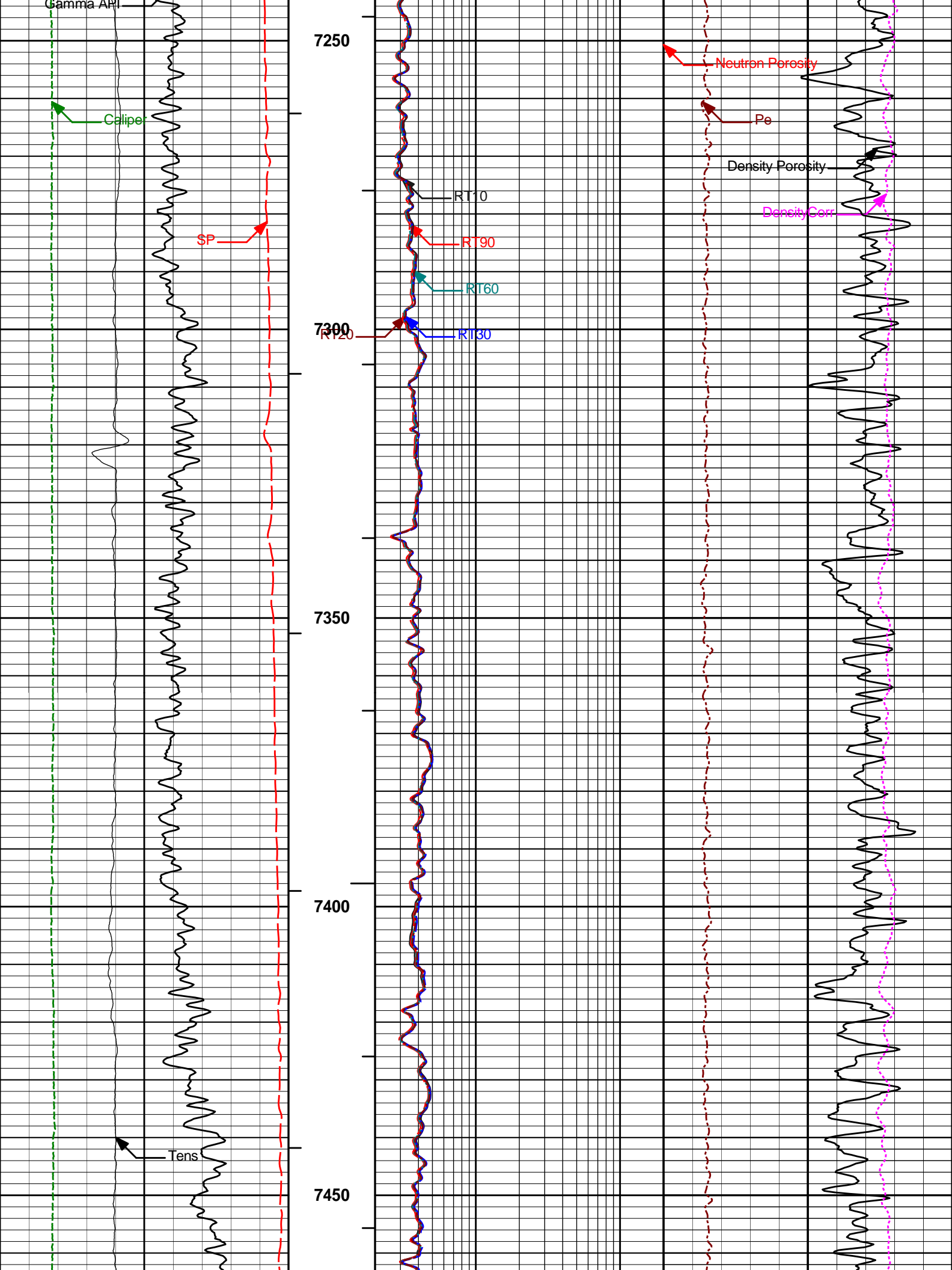


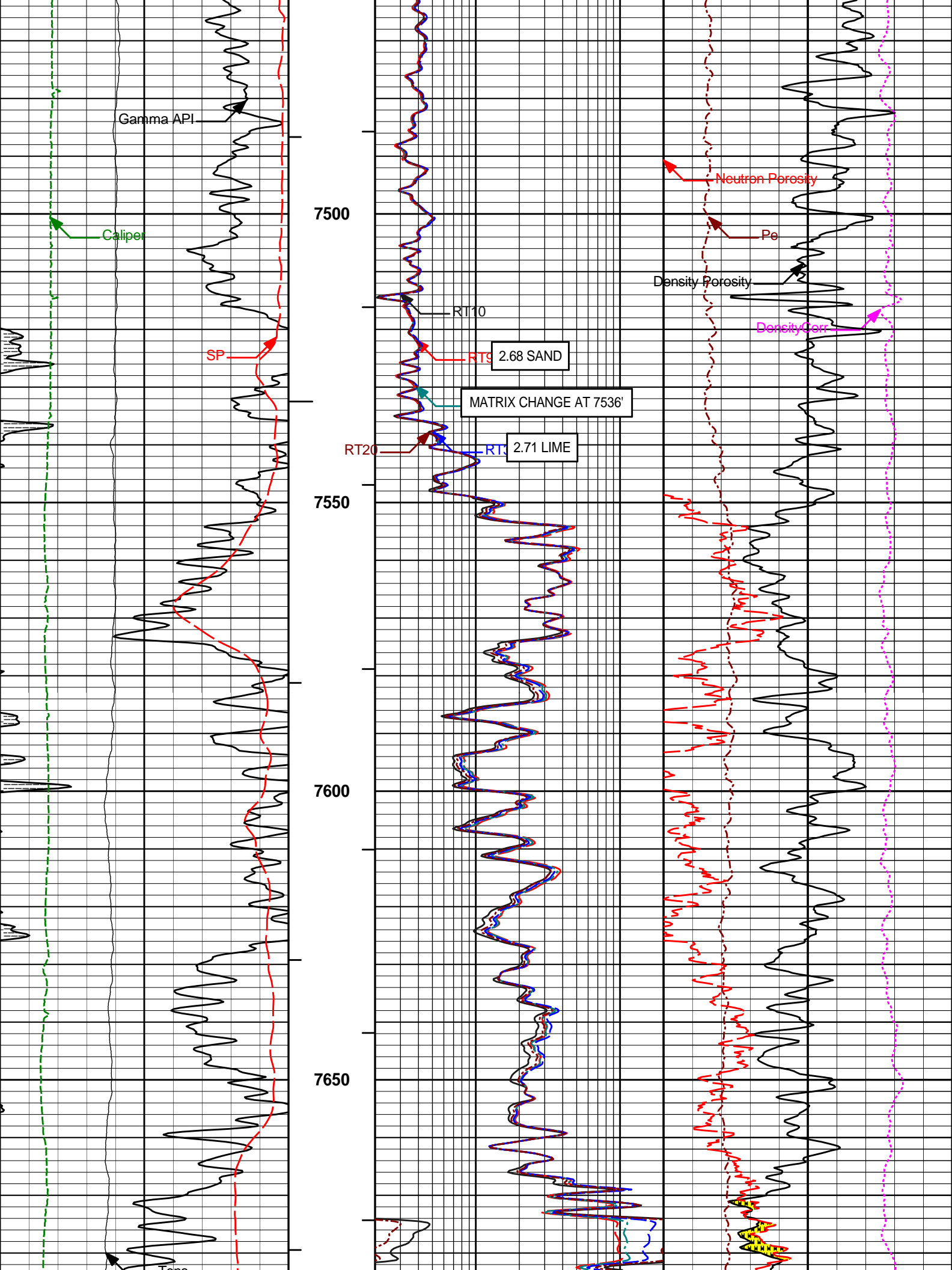


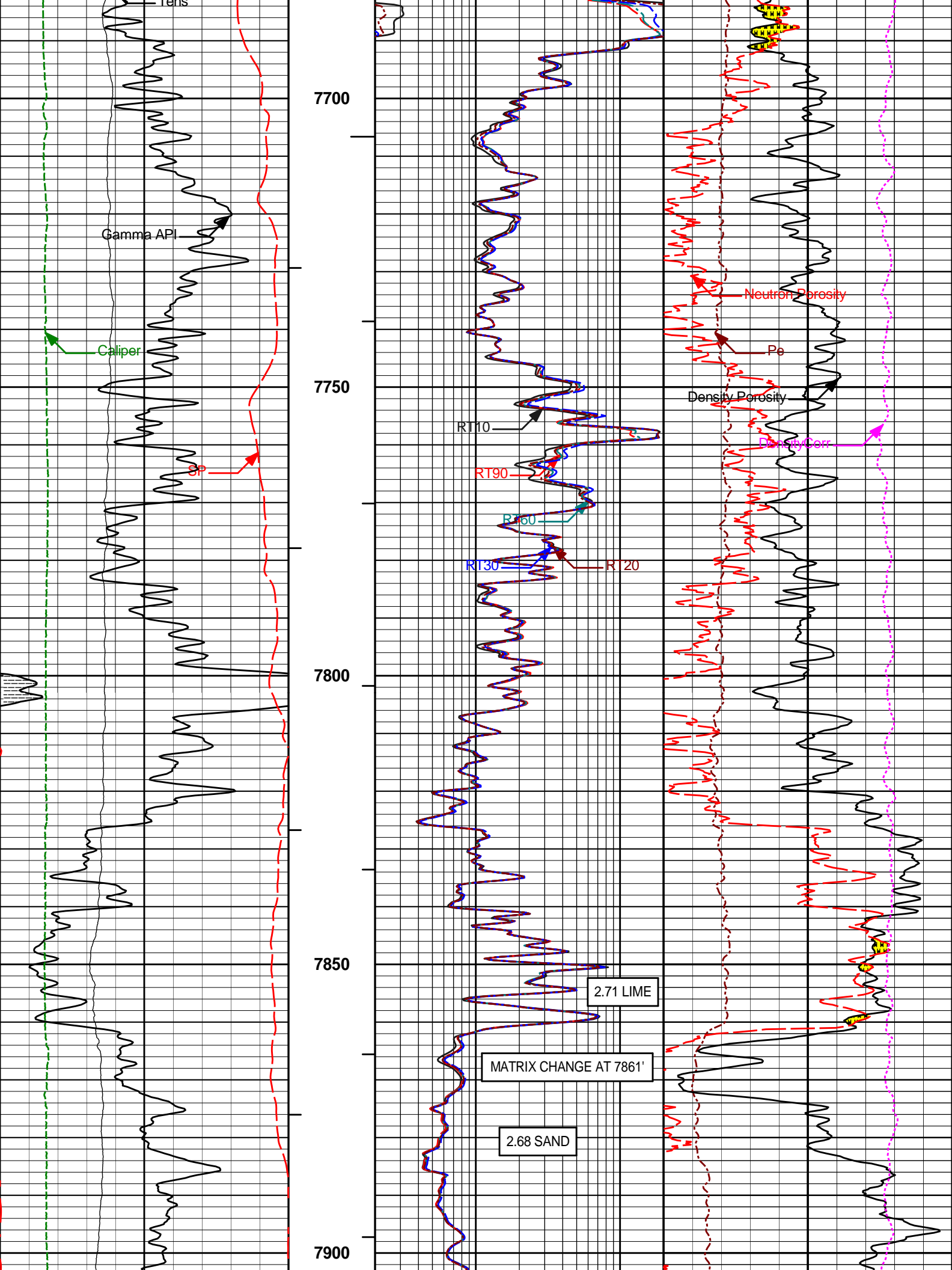


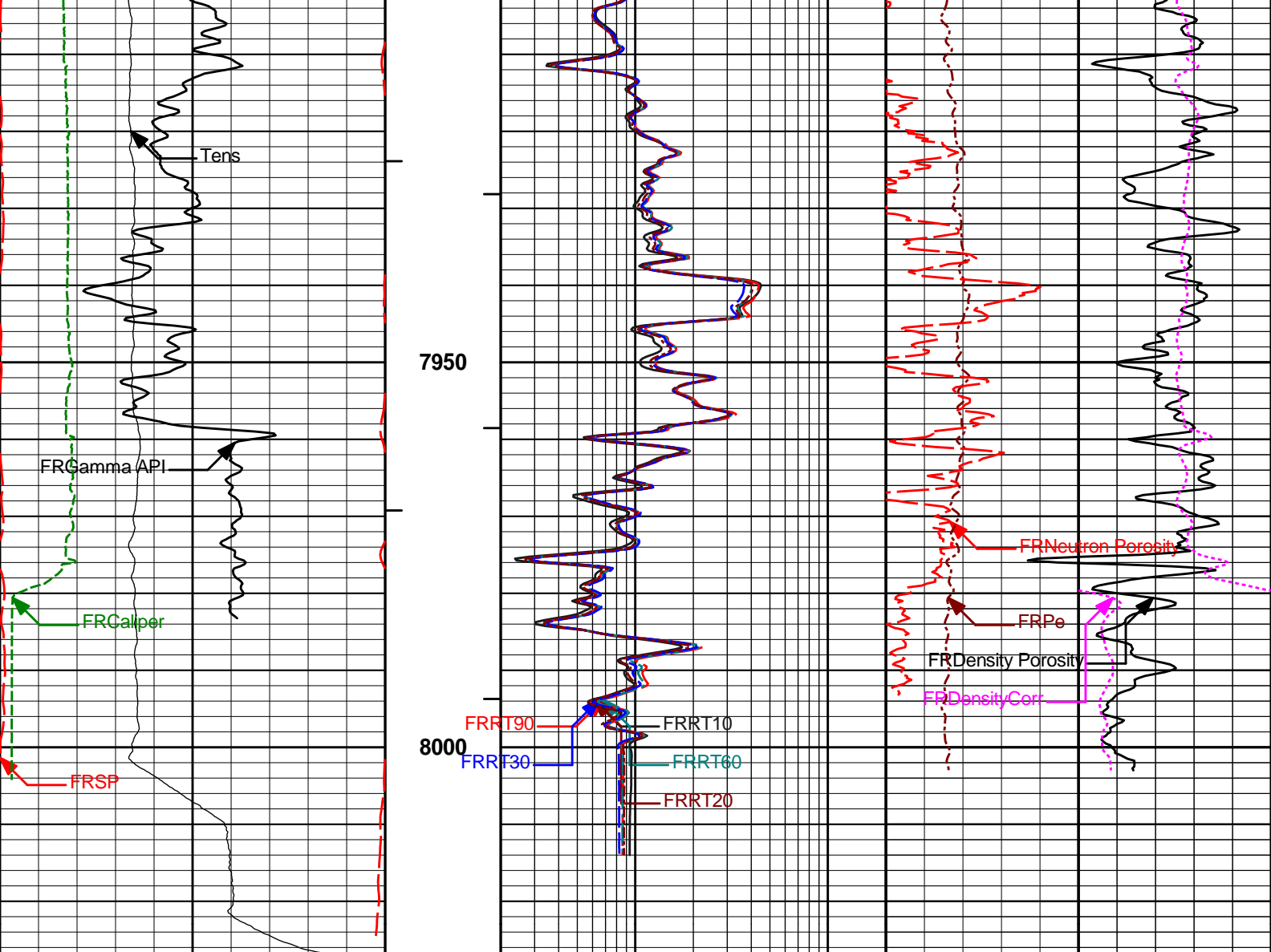












0	SP	100	1 : 240	2	RT90	200	0	Pe	10	-0.25	DensityCorr	0.25
	millivolts				ohmm						gram per cc	
0	Gamma API	200	BHVT	2	RT60	200	20	Density Porosity			0	
	api				ohmm			percent				
6	Caliper	16	AHVT	2	RT30	200	20	Neutron Porosity			0	
	inches				ohmm			percent				
10K	Tens	0		2	RT20	200						
	pounds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

HALLIBURTON

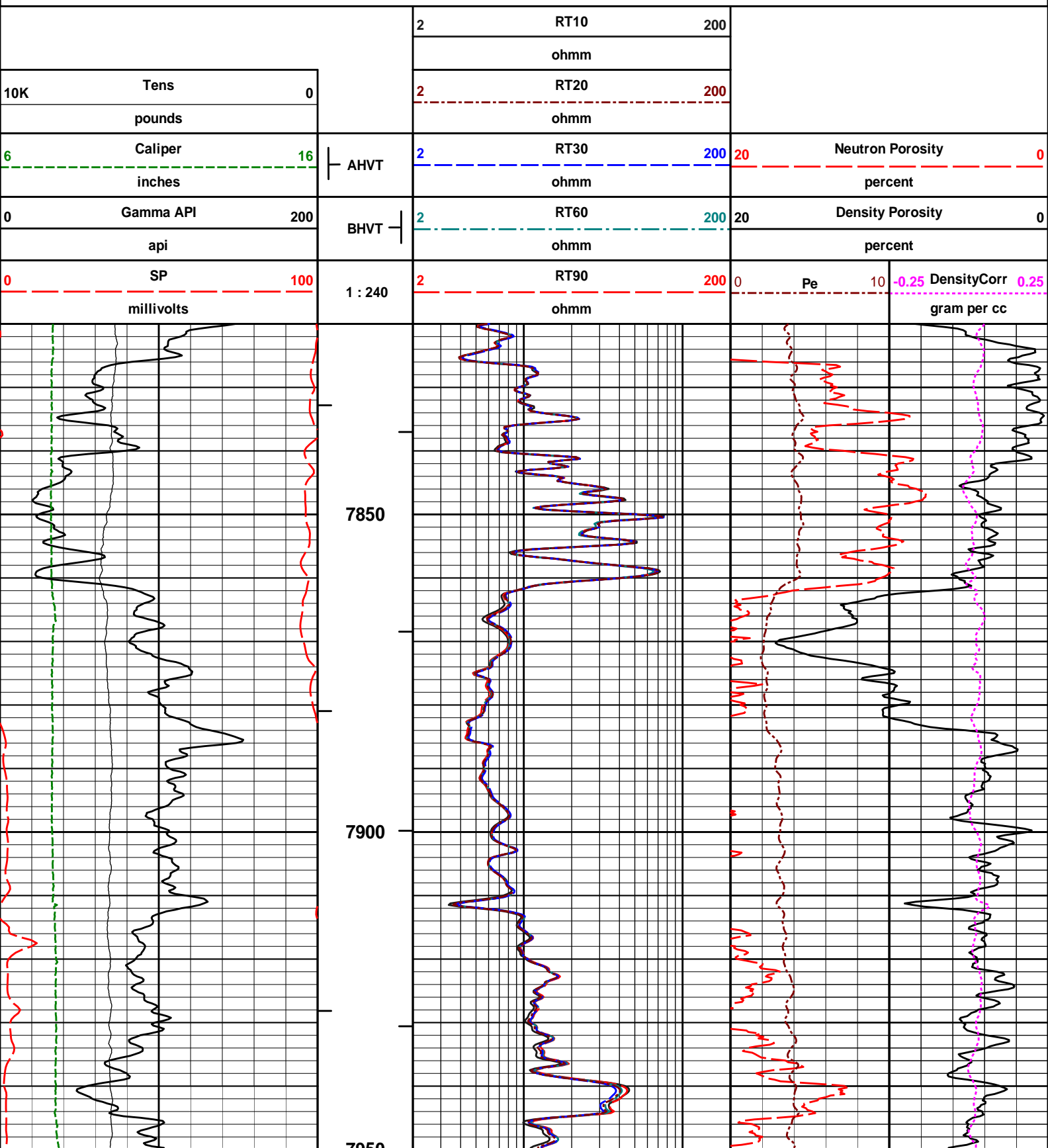
Plot Time: 10-Dec-13 07:08:31
 Plot Range: 720 ft to 8026.92 ft
 Data: {ActiveWell}\Well Based\MAIN
 Plot File: \COMP\MAIN

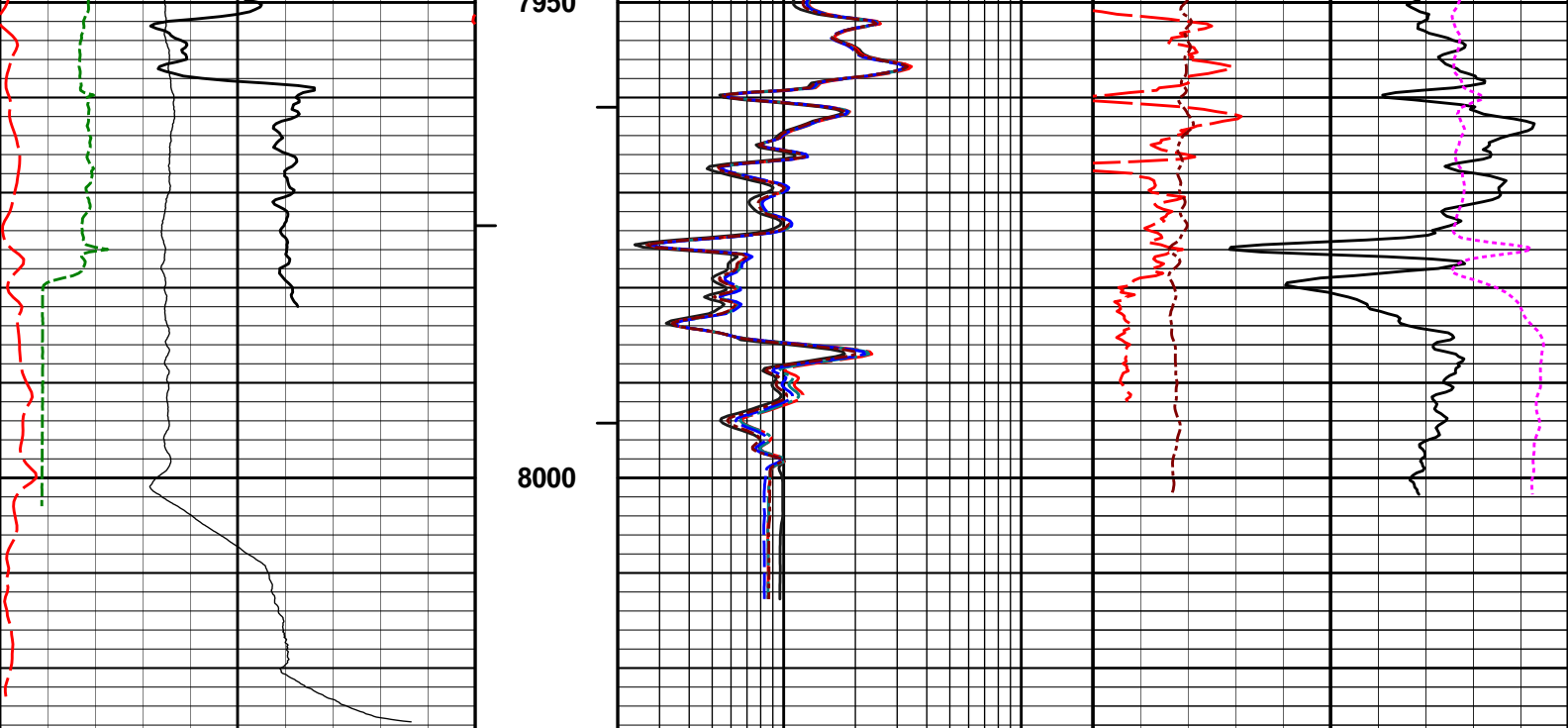
MAIN PASS 5" = 100'

HALLIBURTON

Plot Time: 10-Dec-13 07:08:31

REPEAT SECTION 5" = 100'





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							

HALLIBURTON Plot Time: 10-Dec-13 07:08:34
Plot Range: 7820 ft to 8026.67 ft
Data: {ActiveWell}\Well Based\REPEAT\
Plot File: \\COMP\REPEAT

REPEAT SECTION 5" = 100'

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION			
Tool Name:	GTET - 11812882	Reference Calibration Date:	11-Nov-13 04:46:30
Engineer:	J. PINKETT	Calibration Date:	25-Nov-13 10:43:48
Software Version:	WL INSITE R3.8.4 (Build 5)	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	72.6	72.0	api
Background + Calibrator	321.7	319.3	api
Calibrator	249.1	247.3	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name: GTET - 11812882

Reference Calibration Date: 25-Nov-13 10:43:48

Engineer: J. PINKETT

Calibration Date: 09-Dec-13 12:07:46

Software Version: WL INSITE R3.8.4 (Build 5)

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	72.0	74.9	api
Background + Calibrator	319.3	323.1	api
Calibrator	247.3	248.1	api

Shop	Field	Difference	Tolerance
247.3	248.1	-0.8	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name: DSNT - 11301132

Reference Calibration Date: 31-Oct-13 13:39:24

Engineer: J. PINKETT

Calibration Date: 25-Nov-13 11:08:59

Software Version: WL INSITE R3.8.4 (Build 5)

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: 44 degF

Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS			
Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	1.001	0.998	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):	0.2233	0.2223	0.0009	+/- 0.0020
Calibrated Ratio:	10.14	10.11	0.031	+/- 0.050

VERIFIER		
Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0815	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 - 11301132

Reference Calibration Date: 25-Nov-13 11:08:59

Tool Name:DSNT - 11301132

Engineer:J. PINKETT

Software Version:WL INSITE R3.8.4 (Build 5)

Reference Calibration Date:26-Nov-13 14:30:32

Calibration Date:09-Dec-13 12:19:04

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):	0.0815	0.0805	-0.0010	+/- 0.0150

PASS/FAIL SUMMARY

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

DENSITY CALIPER SHOP CALIBRATION

Tool Name:SDLT - 11107335

Engineer:J. PINKETT

Software Version:WL INSITE R3.8.4 (Build 5)

Host Tool Name:DSNT - 11301132

Reference Calibration Date:31-Oct-13 16:26:09

Calibration Date:26-Nov-13 14:30:32

Calibration Version:1

CALIBRATION COEFFICIENTS

Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-3303.90	-3126.38	-7000.00 - -1000.00
Pad Gain	0.0003814	0.0003758	0.000200 - 0.000600
Arm Offset	-3649.34	-3801.44	-5000.00 - 3000.00
Arm Gain	0.0005638	0.0005664	0.000300 - 0.000700
Arm Power	-0.000005857	-0.000006169	-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)	1.96	2.00	0.04	+/- 0.20
Medium Ring (in)	3.74	3.75	0.01	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.51	6.50	-0.01	+/- 0.20
Medium Ring (in)	8.25	8.25	0.00	+/- 0.20
Large Ring (in)	15.03	15.00	-0.03	+/- 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 - 11107335

Engineer:J. PINKETT

Software Version:WL INSITE R3.8.4 (Build 5)

Reference Calibration Date:26-Nov-13 14:30:32

Calibration Date:09-Dec-13 12:13:48

Calibration Version:1

MEASURED CALIPER VALUES

Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.73	-0.02	+/- 0.10
Ring Diameter	8.25	8.30	0.05	+/- 0.15

PASS/FAIL SUMMARY	
Pad Extension Check:	Passed
Diameter Check:	Passed

SPECTRAL DENSITY SHOP CALIBRATION			
Tool Name:	SDLT Pad - 11045470	Reference Calibration Date:	02-Dec-13 12:30:32
Engineer:	J. PINKETT	Calibration Date:	02-Dec-13 12:50:25
Software Version:	WL INSITE R3.8.4 (Build 5)	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	1.0700	1.0659	0.90 - 1.10
Near Dens Gain	1.0142	1.0242	0.90 - 1.10
Near Peak Gain	1.0139	1.0165	0.90 - 1.10
Near Lith Gain	0.9797	0.9790	0.90 - 1.10
Far Bar Gain	1.0058	1.0083	0.90 - 1.10
Far Dens Gain	0.9980	0.9982	0.90 - 1.10
Far Peak Gain	0.9899	0.9917	0.90 - 1.10
Far Lith Gain	0.9742	0.9771	0.90 - 1.10
Near Bar Offset	-0.6686	-0.6313	NONE
Near Dens Offset	-0.1013	-0.1924	NONE
Near Peak Offset	-0.0765	-0.0979	NONE
Near Lith Offset	0.2056	0.2126	NONE
Far Bar Offset	-0.1364	-0.1601	NONE
Far Dens Offset	-0.0590	-0.0610	NONE
Far Peak Offset	-0.0000	-0.0158	NONE
Far Lith Offset	0.1116	0.0848	NONE
Near Bar Background	1002.89	1001.49	700 - 1450
Near Dens Background	329.71	329.10	230 - 480
Near Peak Background	145.27	144.25	100 - 210
Near Lith Background	175.17	174.94	125 - 260
Far Bar Background	530.28	527.07	450 - 900
Far Dens Background	210.39	208.76	175 - 345
Far Peak Background	83.10	82.96	70 - 140
Far Lith Background	86.18	85.74	75 - 145

CALIBRATION BLOCK SUMMARY				
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.692	1.691	-0.000	+/- 0.015
Pe	2.614	2.603	-0.011	+/- 0.150
ALUMINUM				
Density (g/cc)	2.601	2.602	0.001	+/- 0.01500

Density (g/cc)	2.601	2.602	0.001	+/- 0.01500
Pe	3.068	3.063	-0.005	+/- 0.150

TOOL SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	-0.0003	+/- 0.0110	0.0016	+/- 0.0140
Magnesium Block	0.0006	+/- 0.0110	0.0002	+/- 0.0140
Aluminum Block	-0.0010	+/- 0.0110	0.0004	+/- 0.0140
Resolution	8.93	6.00 - 11.50	9.03	6.00 - 11.50
Internal Verifier(B+D+P+L)	1650	1200 - 2700	905	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 - 11045470	Reference Calibration Date:	02-Dec-13 12:50:25
Engineer:	J. PINKETT	Calibration Date:	09-Dec-13 12:06:21
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1

Pad Temperature: 54.1 degF

DENSITY FIELD CALIBRATION SUMMARY				
Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1649.789	1647.223	-2.566	16.318
Far (B+D+P+L) cps	904.523	910.376	5.853	16.342
Near Resolution	8.93	9.07	0.140	0.50
Far Resolution	9.03	9.25	0.220	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 - 11294352	Reference Calibration Date:	30-Oct-13 13:56:18
Engineer:	J. PINKETT	Calibration Date:	29-Nov-13 12:42:49
Software Version:	WL INSITE R3.8.12 (Build 3)	Calibration Version:	1
Host Tool Name:	ACRt Instrument - 11296758		

TYPICAL GAIN RANGE									
Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.00	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	1.00	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	1.01	1.05	0.95	1.01	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.99	1.05	0.95	0.99	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	-1.37	2	-6	-4.20	-2	-8	-5.30	-2
A2 (50")	-7	-2.99	0	-7	-3.97	0	-7	-4.52	0
A3 (29")	-27	-13.85	-9	-9	-4.03	-3	-7	-3.22	-1
A4 (17")	-180	-96.49	-60	-45	-30.23	-15	-39	-24.27	-13
A5 (10")	N/A	N/A	N/A	-150	-101.20	-50	-80	-47.31	-10
A6 (6")	N/A	N/A	N/A	175	317.96	525	90	160.90	270
TRANSMITTER CURRENT GAIN					R-MUD VERIFICATION				
Signal	Lower	R	Upper	Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)		
12K	0.6	0.86	1.3	Mud Cell	0.95	0.98	1.05		
36K	1.0	1.85	2.0						
72K	1.0	1.11	2.0						
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									
Sensor	Shop	Field	Post	Difference	Tolerance	Units			
GTET-11812882									
Gamma Ray Calibrator	247.3	248.1	-----	-0.8	+/- 9.00	api			
DSNT-11301132									
Snow-Block Porosity	0.0815	0.0805	-----	0.0010	+/- 0.0150	decp			
SDLT-11107335									
Pad Extension	3.75	3.73	-----	0.02	+/-0.10	in			
Ring Diameter	8.25	8.30	-----	-0.05	+/-0.15	in			
SDLT Pad-11045470									
Near(B+D+P+L)	1649.789	1647.223	-----	2.566	+/-16.318	cps			
Far(B+D+P+L)	904.523	910.376	-----	-5.853	+/-16.342	cps			
ACRt Sonde-11294352									
Mud Cell	0.98	-----	-----	0.00	-----	ohm-m			
Data: WINDSOR LV21-14W0001 TRIPLE BLACK SLICKWIDE									
Date: 10-Dec-13 04:32:17									
HALLIBURTON									
TOOL STRING DIAGRAM REPORT									
Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length			
						54.85 ft			

RWCH-10409638
135.00 lbs

Ø 3.625 in →

← Load Cell @ 51.17 ft
← BH Temperature @ 50.60 ft

6.25 ft

48.60 ft

GTET-11812882
165.00 lbs

Ø 3.625 in →

8.52 ft

← GammaRay @ 42.54 ft

UnivWearRing3.6-
11812883
5.00 lbs

Ø 4.200 in* →

40.08 ft

DSNT-11301132
174.00 lbs

Ø 3.625 in →

9.69 ft

← DSN Far @ 33.15 ft
← DSN Near @ 32.40 ft

UnivWearRing3.6-
11812167
5.00 lbs

Ø 4.200 in* →

30.40 ft

SDLT-11107335
360.00 lbs

Ø 4.500 in →

10.81 ft

SDLT Pad-11045470
65.00 lbs

Ø 4.750 in* →

← SDL Caliper @ 22.40 ft
← SDL @ 22.39 ft

19.58 ft

ACRt Instrument-
11296758
50.00 lbs

Ø 3.625 in →

5.03 ft

14.55 ft

← Mud Resistivity @ 13.19 ft

← ACRt @ 9.21 ft

ACRt Sonde-
11294352
200.00 lbs

Ø 3.625 in →

14.22 ft

SP Ring-12345671
0.00 lbs

Ø 3.625 in* →

← SP @ 1.61 ft

0.33 ft

Bull Nose-00000001
5.00 lbs

Ø 2.750 in →

0.33 ft

						0.00 ft	
Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)	
RWCH	Releasable Wireline Cable Head	10409638	135.00	6.25	48.60	300.00	
GTET	Gamma Telemetry Tool	11812882	165.00	8.52	40.08	60.00	
UWR3P6	Universal Wear Ring 3 5-8 inch	11812883	5.00	0.35	*	40.81	300.00
DSNT	Dual Spaced Neutron	11301132	174.00	9.69	30.40	60.00	
UWR3P6	Universal Wear Ring 3 5-8 inch	11812167	5.00	0.35	*	30.52	300.00
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	11296758	50.00	5.03	14.55	300.00	
ACRt	Array Compensated True Resistivity Sonde Section	11294352	200.00	14.22	0.33	300.00	
SP	SP Ring	12345671	0.00	0.25	*	1.61	300.00
BLNS	Bull Nose	00000001	5.00	0.33	0.00	300.00	
Total			1,164.00	54.85			
							* Not included in Total Length and Length Accumulation.
Data: WINDSOR LV21-14\0001 TRIPLE BLACK_SLICK\001 10-Dec-13 04:32 Dn @6.3f							Date: 10-Dec-13 04:37:14

COMPANY	BAYSWATER EXPLORATION & PRODUCTION		
WELL	WINDSOR LV 21-14		
FIELD	WATTENBERG		
COUNTY	WELD	STATE	CO
HALLIBURTON		DUAL SPACED NEUTRON SPECTRAL DENSITY ARRAY COMPENSATED TRUE RESISTIVITY	