

HALLIBURTON

DUAL SPACED NEUTRON
SPECTRAL DENSITY
ARRAY COMPENSATED
TRUE RESISTIVITY

COMPANY				BAYSWATER EXPLORATION & PRODUCTION			
WELL				STALEY 25-7			
FIELD/BLOCK				WATTENBERG			
COUNTY				WELD			
STATE				CO			
Permanent Datum				GL			
Log measured from				KB			
Drilling measured from				KB			
Date				27-Nov-13			
Run No.				ONE			
Depth - Driller				7280.00 ft			
Depth - Logger				7275.0 ft			
Bottom - Logged Interval				7273 ft			
Top - Logged Interval				CASING			
Casing - Driller				8.625 in @ 647.0 ft			
Casing - Logger				642.0 ft			
Bit Size				7.875 in			
Type Fluid in Hole				WATER BASED MUD			
Density				9.5 ppg			
Viscosity				56.00 s/qt			
PH				8.50 pH			
Source of Sample				MUD CELL			
Rm @ Meas. Temperature				1.260 ohmm @ 75.44 degF			
Rmf @ Meas. Temperature				1.09 ohmm @ 75.00 degF			
Rmc @ Meas. Temperature				1.119 ohmm @ 75.00 degF			
Source Rmf				CHART			
Rm @ BHT				0.53 ohmm @ 189.0 degF			
Time Since Circulation				6.0 hr			
Time on Bottom				27-Nov-13 04:29			
Max. Rec. Temperature				189.0 degF @ 7275.0 ft			
Equipment				11454566 BRIGHTON			
Recorded By				J. SCHMIDT			
Witnessed By				D. PATTON			

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Service Ticket No.:				API Serial No.: 05123380560000				PGM Version: WL INSITE R3.8.4 (Build 5)							
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.		N/A	
Rmc @ Meas. Temp.		@		@				11296758							
Source Rmf		Rmc						11294352							
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.		11812882		Serial No.				Serial No.		11816600		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.		5471 GW		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	7104	REC	0	200				20	0	2.68	20	0	SAND
ONE	7104	6770	REC	0	200				20	0	2.71	20	0	LIME
ONE	6770	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														
DSNT DENCENTRALIZER NOTR RAN AT CUSTOMER REQUEST														
ANNULAR HOLE VOLUME CALCULATED FOR 4.5-INCH CASING														
YOUR CREW: A. AXE, K.PRIEST, K. BENSON RIG: ENSIGN 122														
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES - BRIGHTON, CO - (303) 655-4895														
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.														
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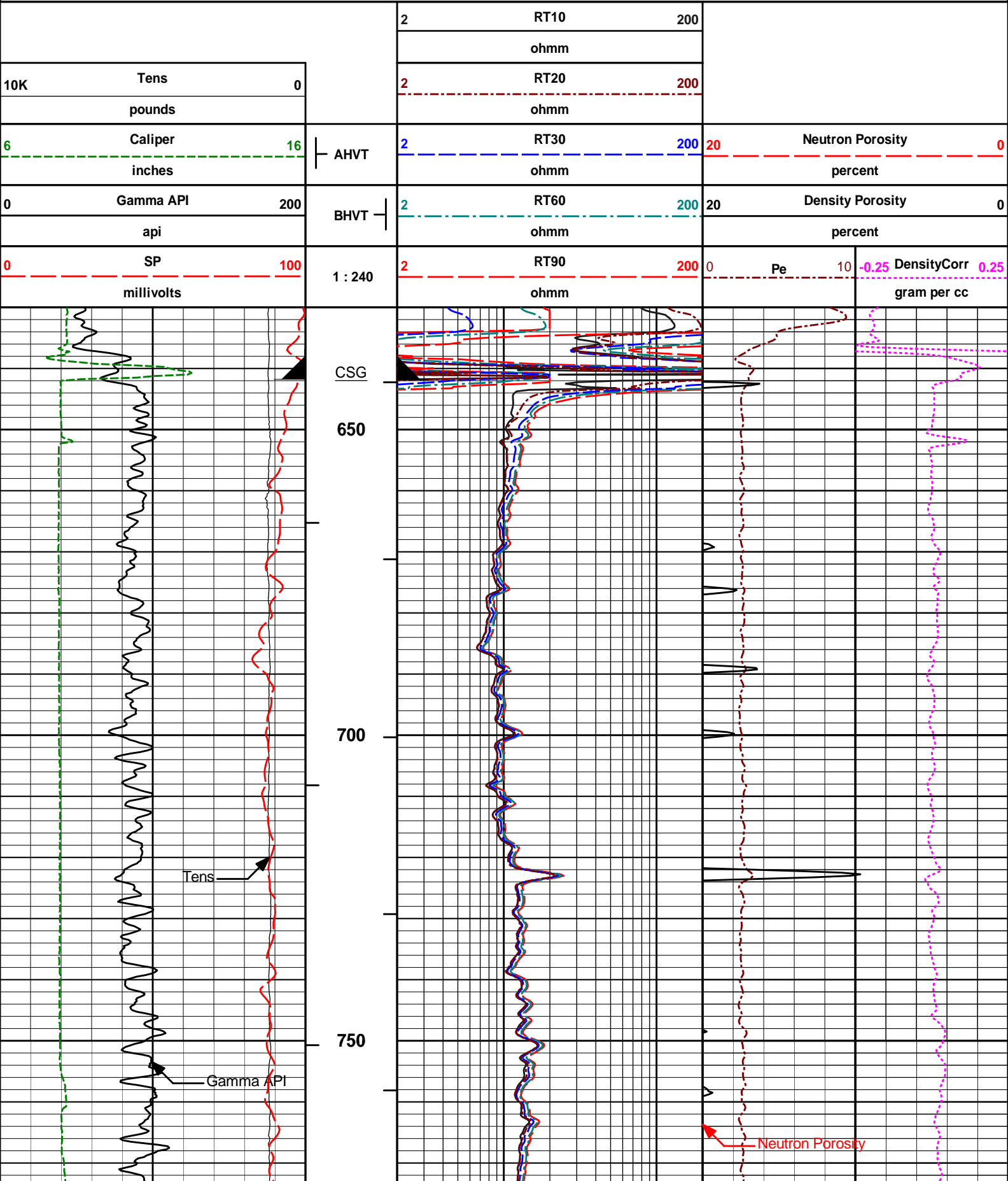
PARAMETERS REPORT

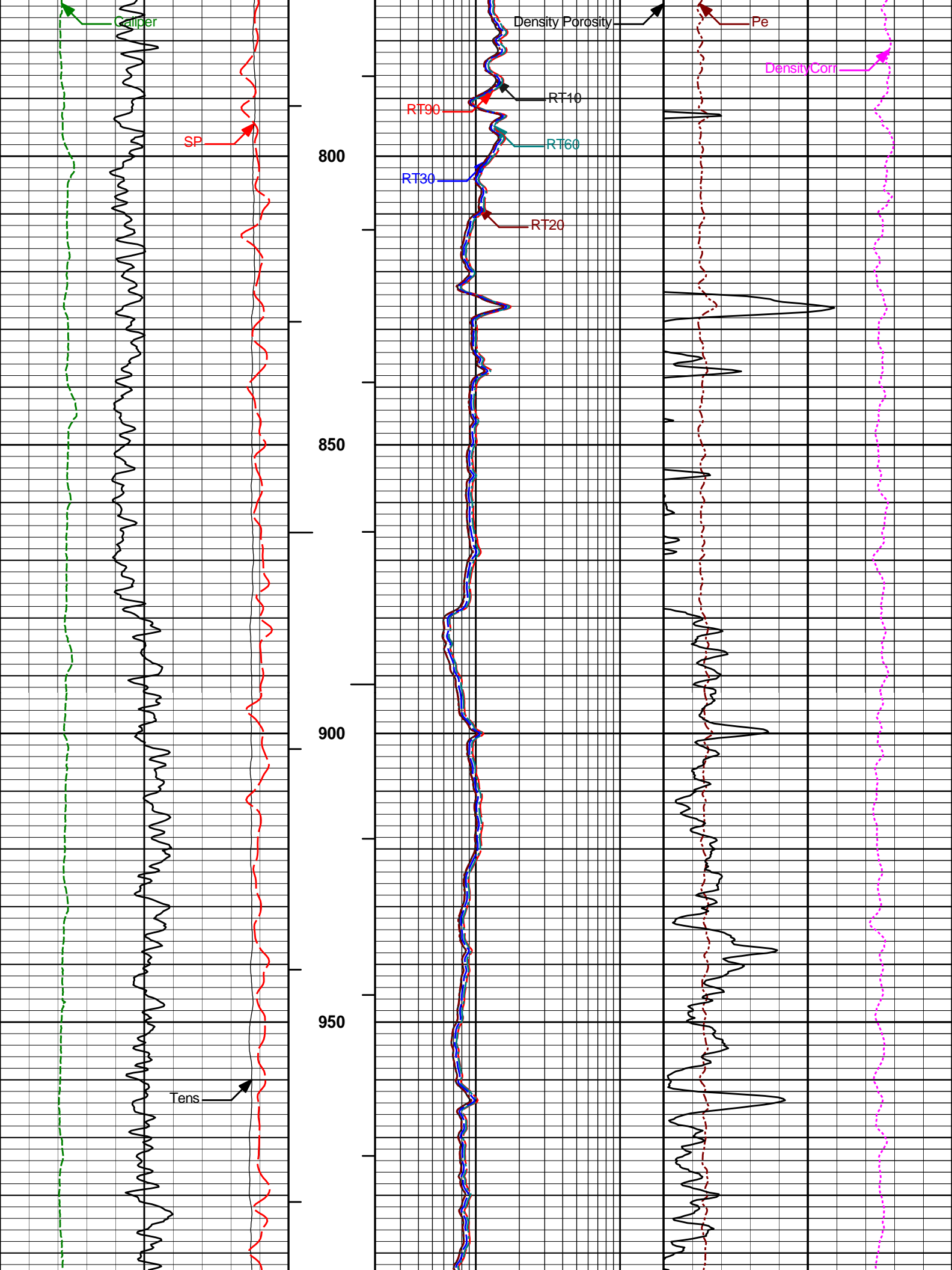
Depth (ft)	Tool Name	Mnemonic	Description	Value	Units
TOP					
	DSNT	NLIT	Neutron Lithology	Sandstone	
	SDLT Pad	DMA	Formation Density Matrix	2.680	g/cc
6770.00					
	DSNT	NLIT	Neutron Lithology	Limestone	
	SDLT Pad	DMA	Formation Density Matrix	2.710	g/cc
7104.00					
	SHARED	BS	Bit Size	7.875	in
	SHARED	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	1200.00	ppm
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%
	SHARED	RMUD	Mud Resistivity	2.000	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	7280.00	ft
	SHARED	BHT	Bottom Hole Temperature	200.0	degF
	SHARED	SVTM	Navigation and Survey Master Tool	NONE	

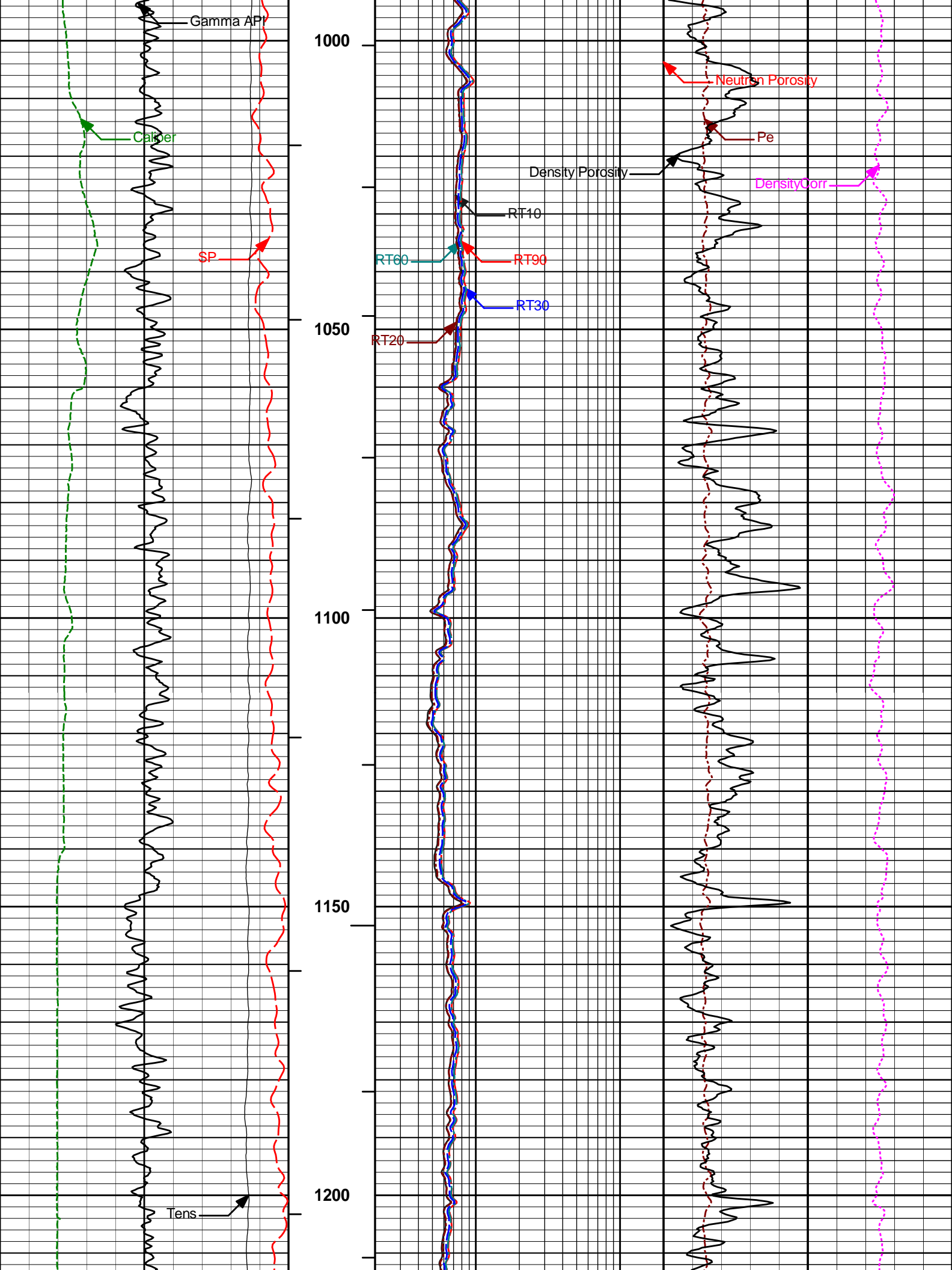
SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET	
SHARED	TEMM	Temperature Master Tool	NONE	
SHARED	BHSM	Borehole Size Master Tool	NONE	
Rwa / CrossPlot	XPOK	Process Crossplot?	Yes	
Rwa / CrossPlot	FCHO	Select Source of F	Automatic	
Rwa / CrossPlot	AFAC	Archie A factor	0.6200	
Rwa / CrossPlot	MFAC	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	1.50	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

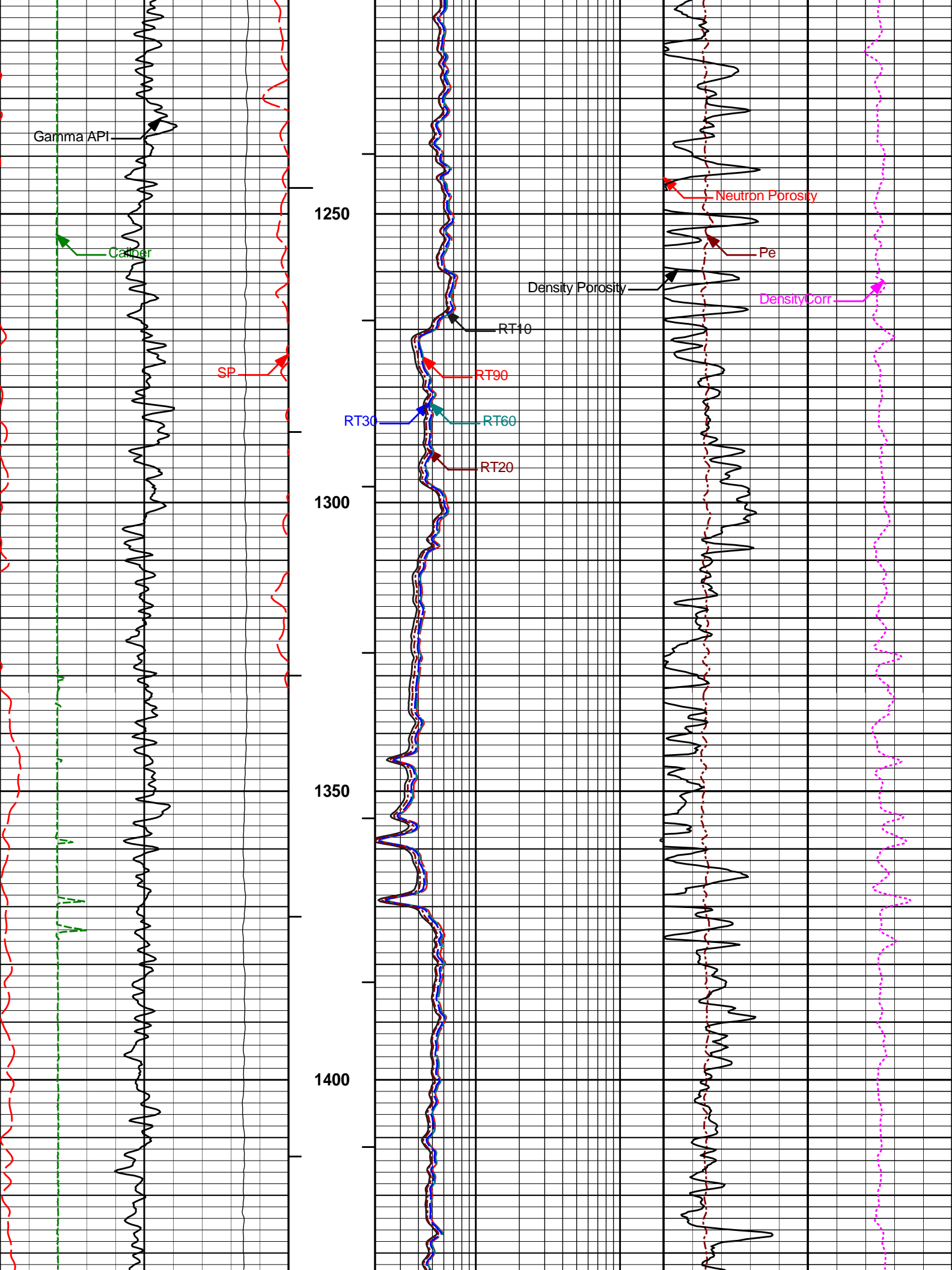
BOTTOM

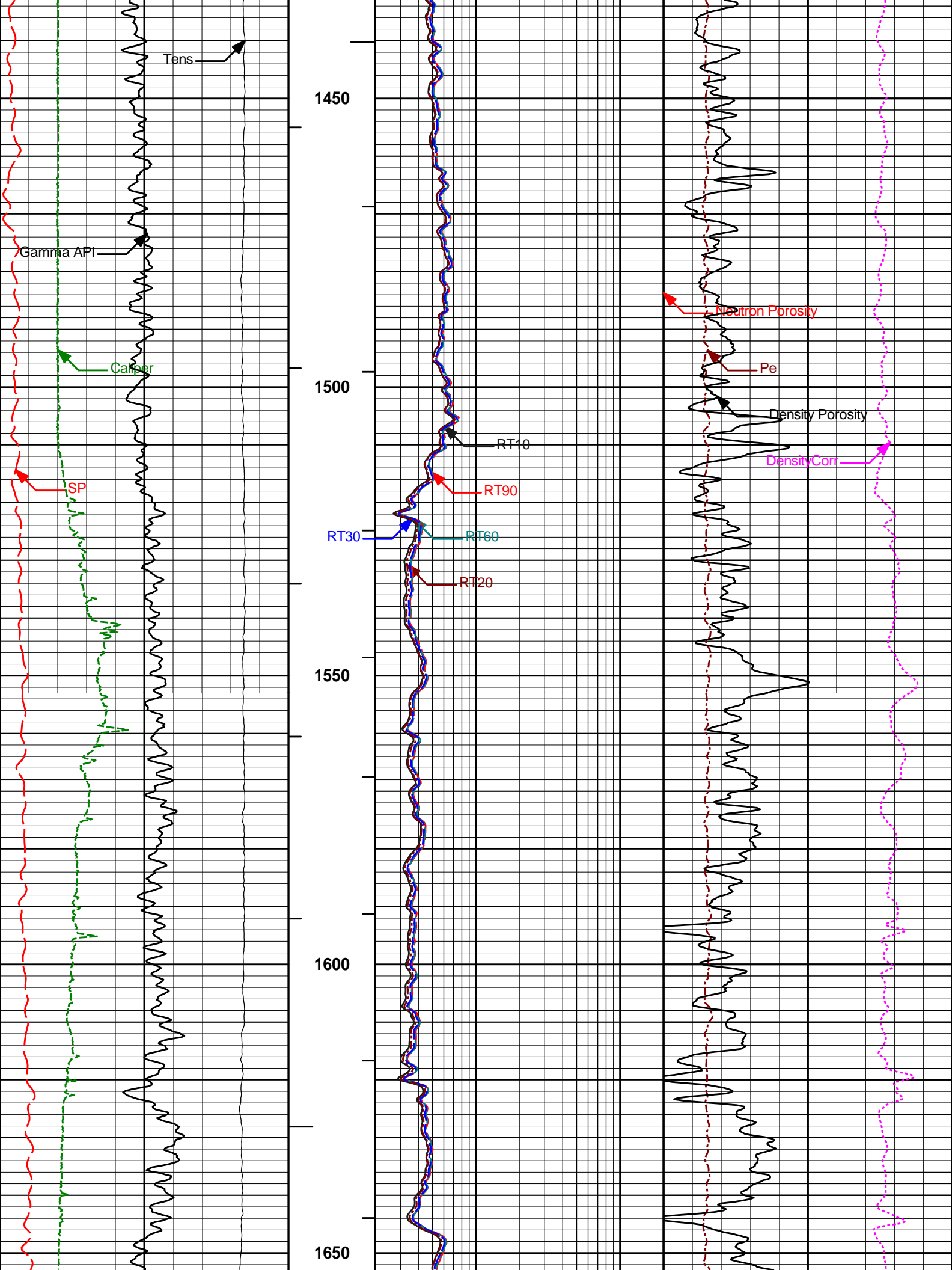
MAIN PASS 5" = 100'

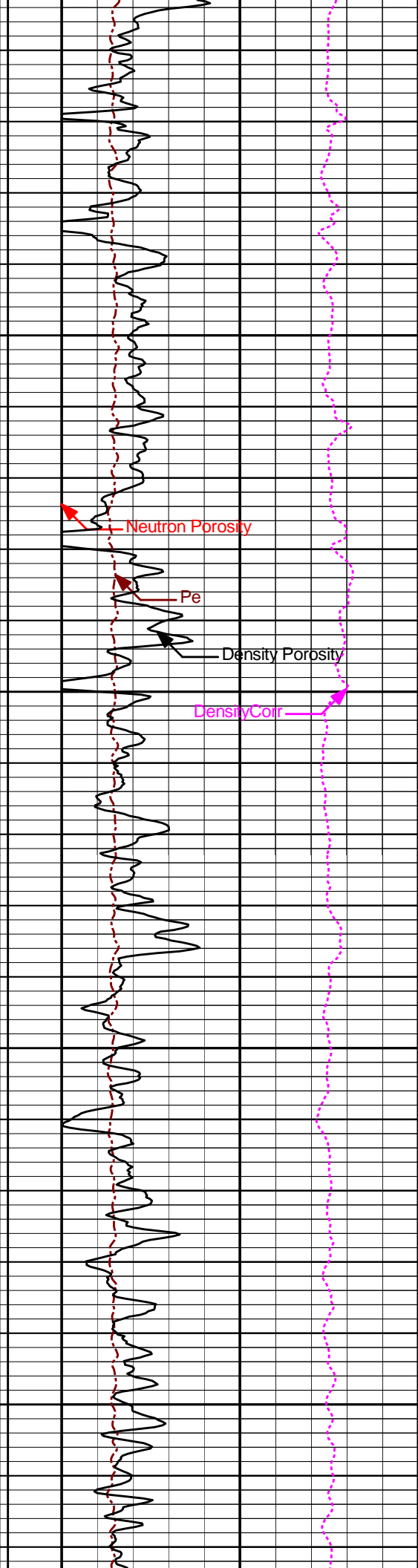
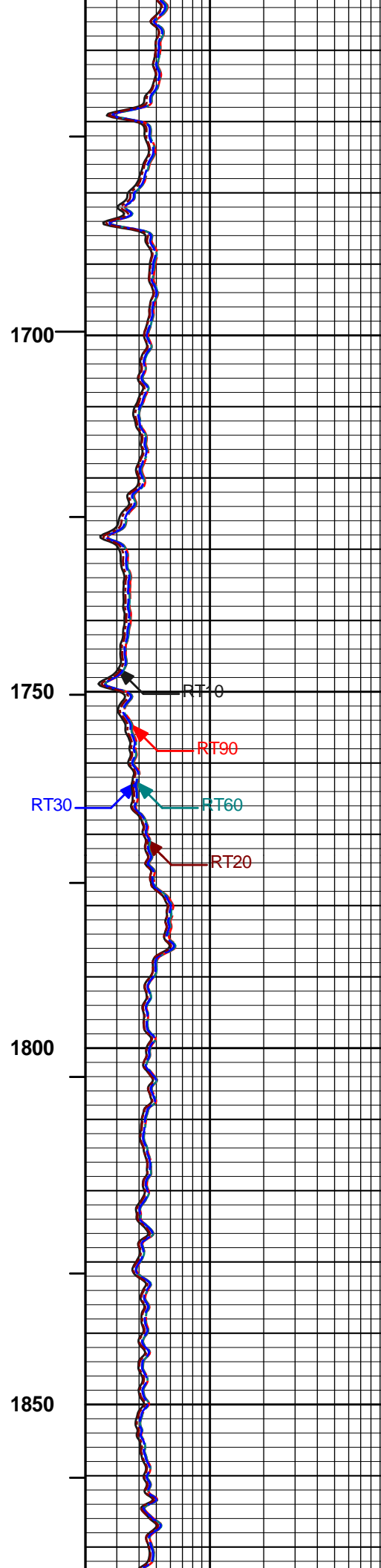
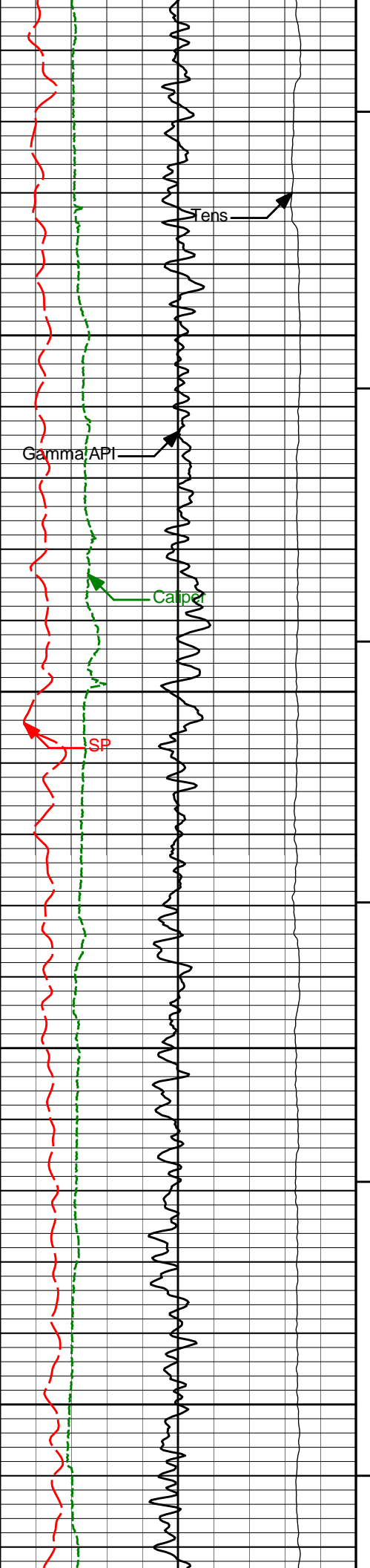


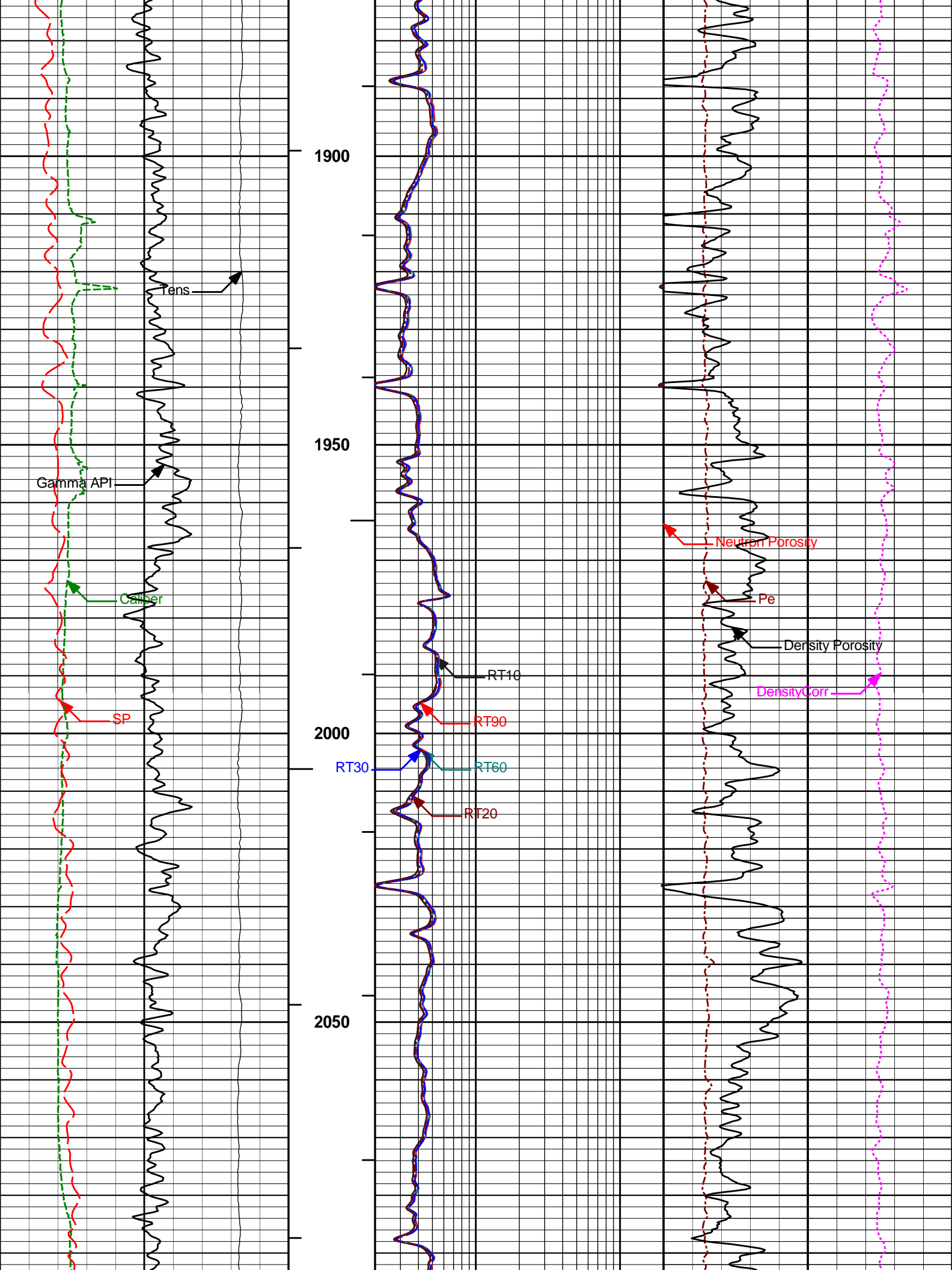


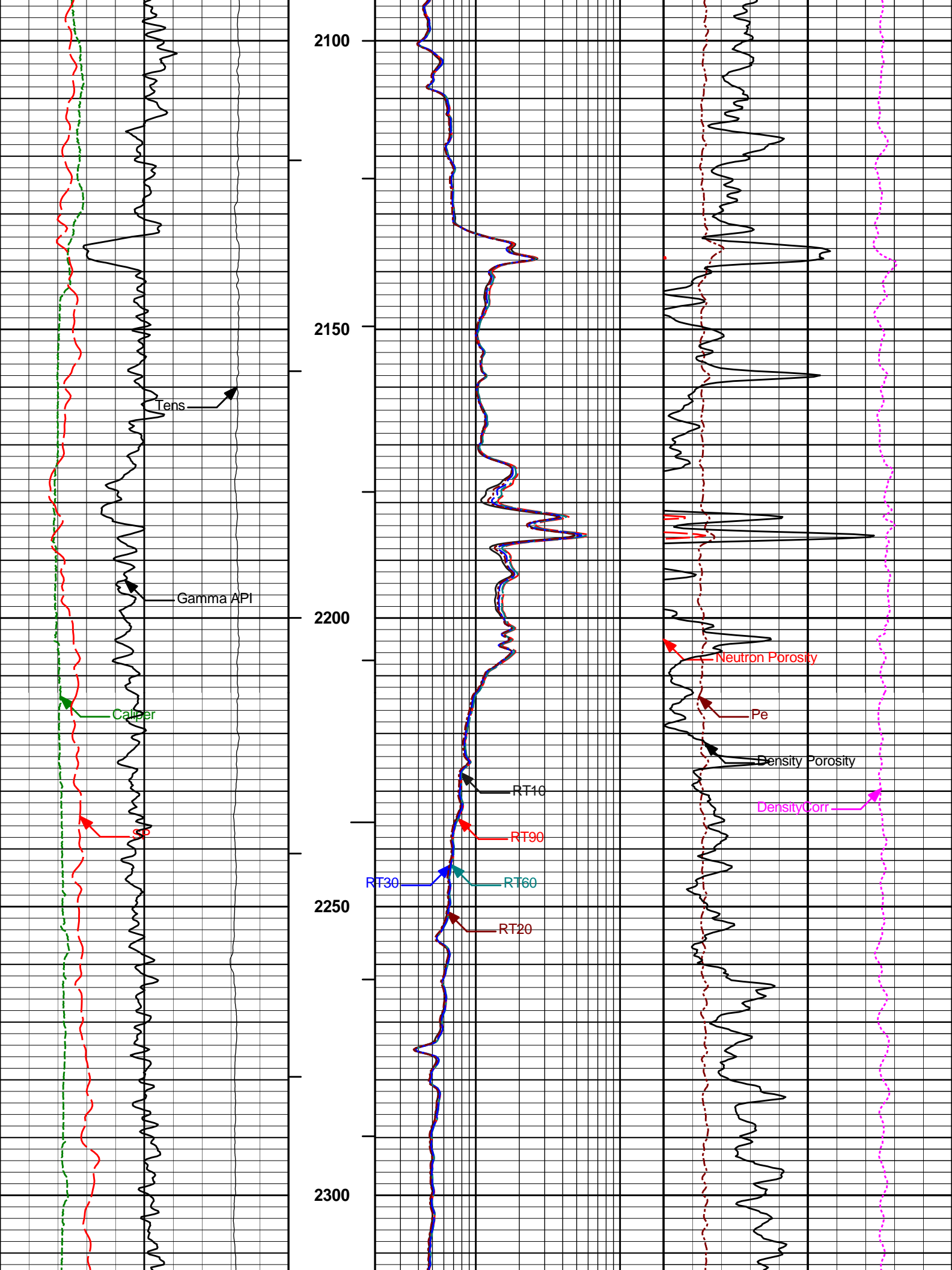


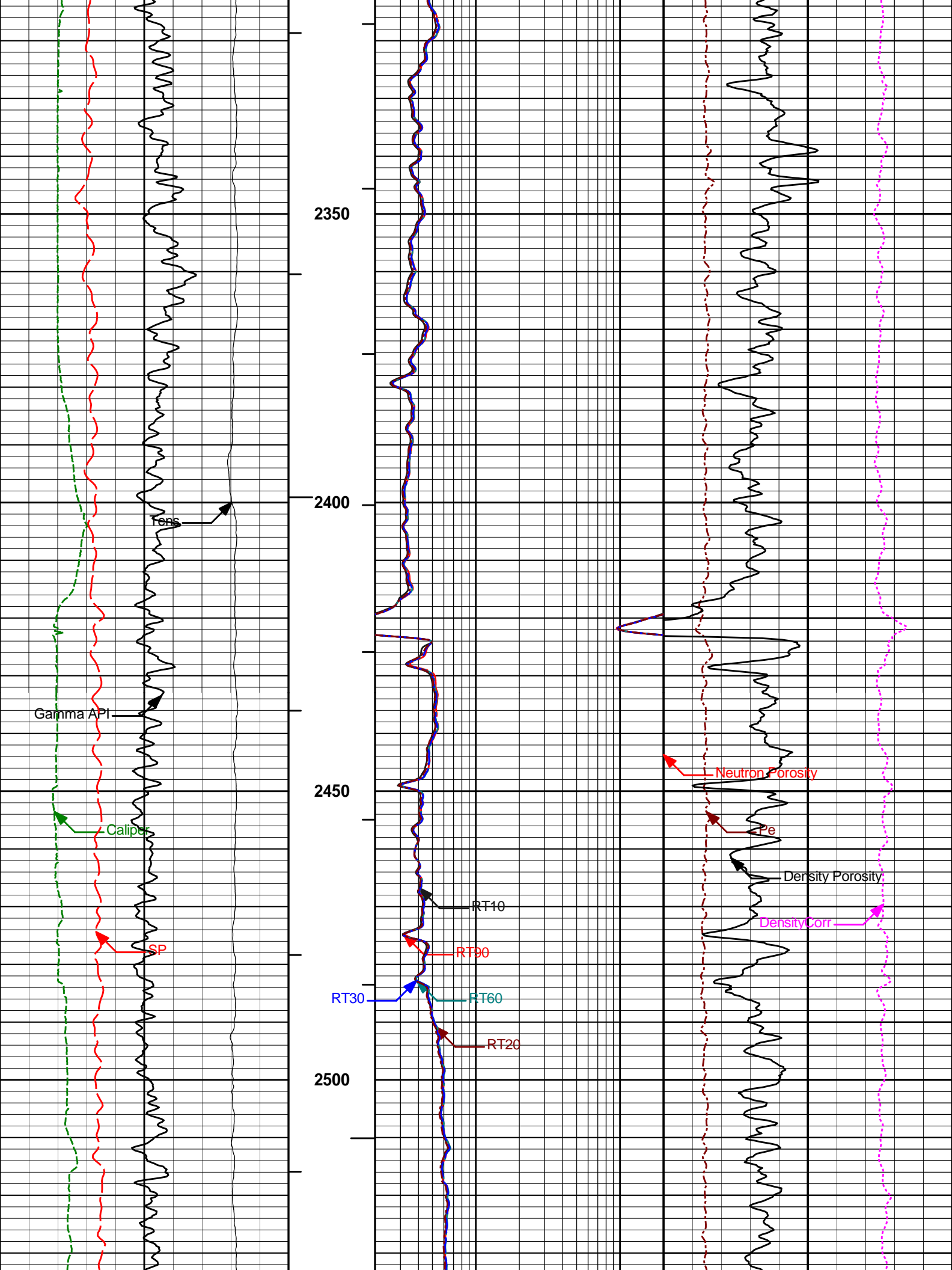


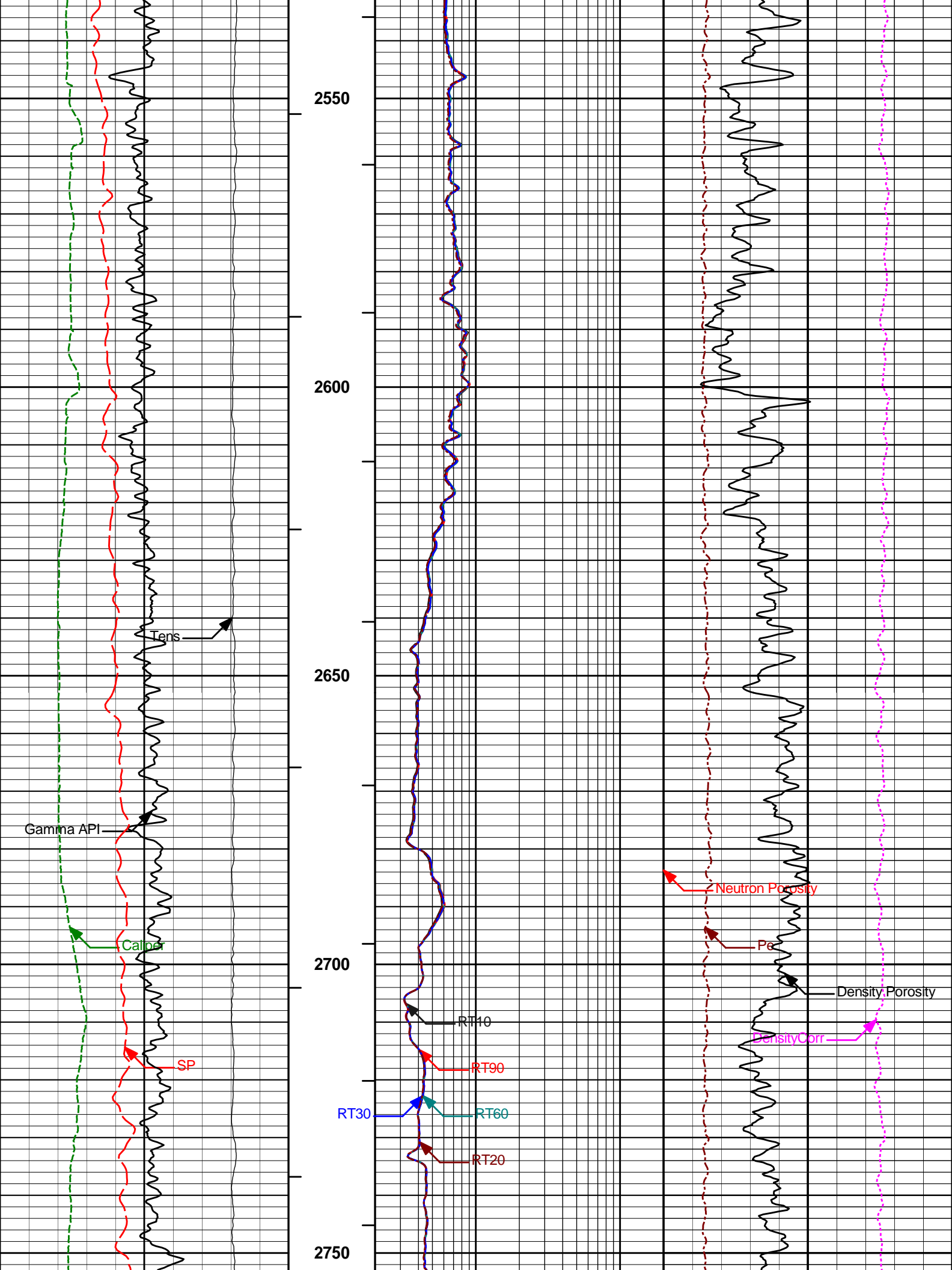


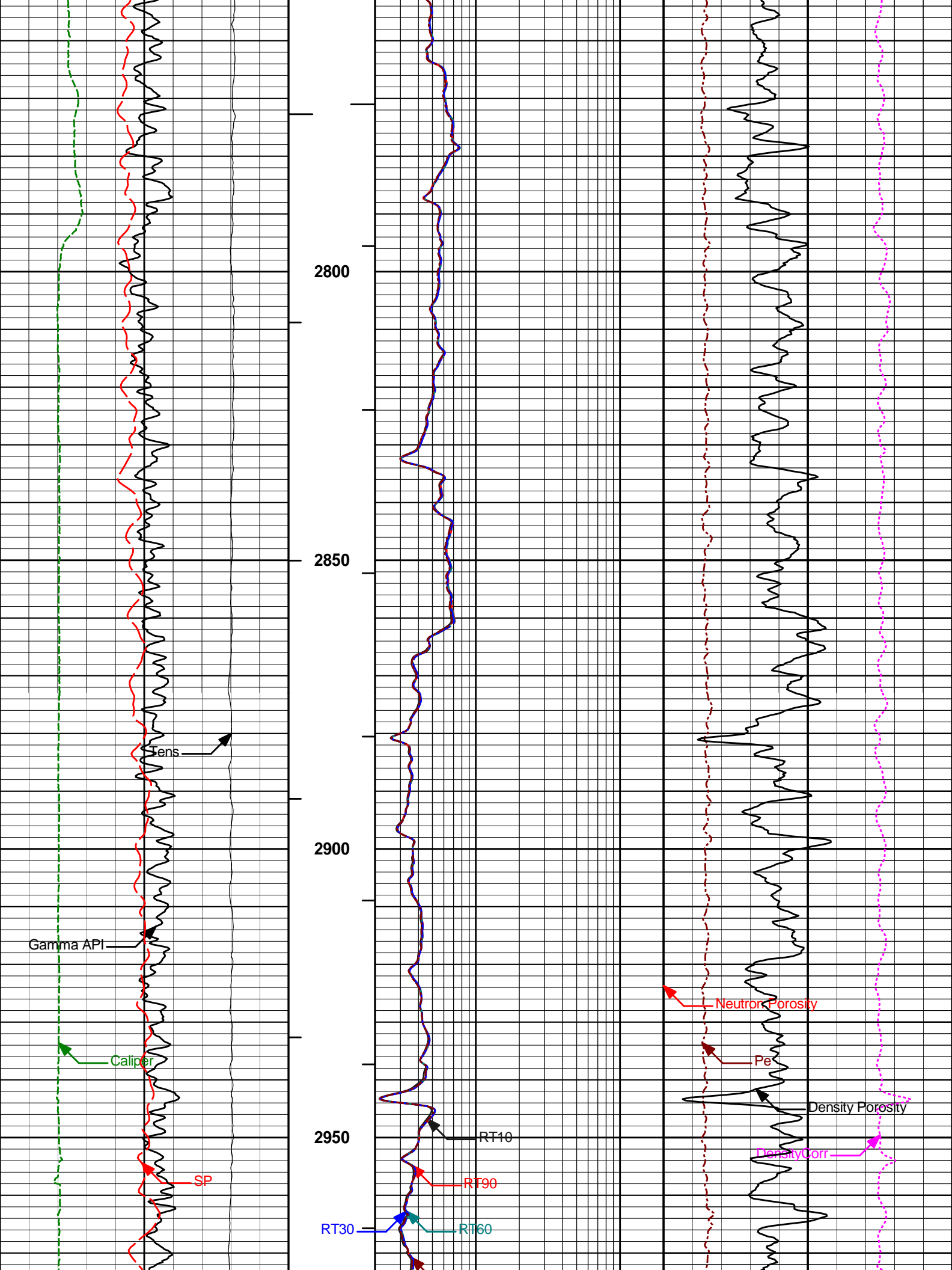


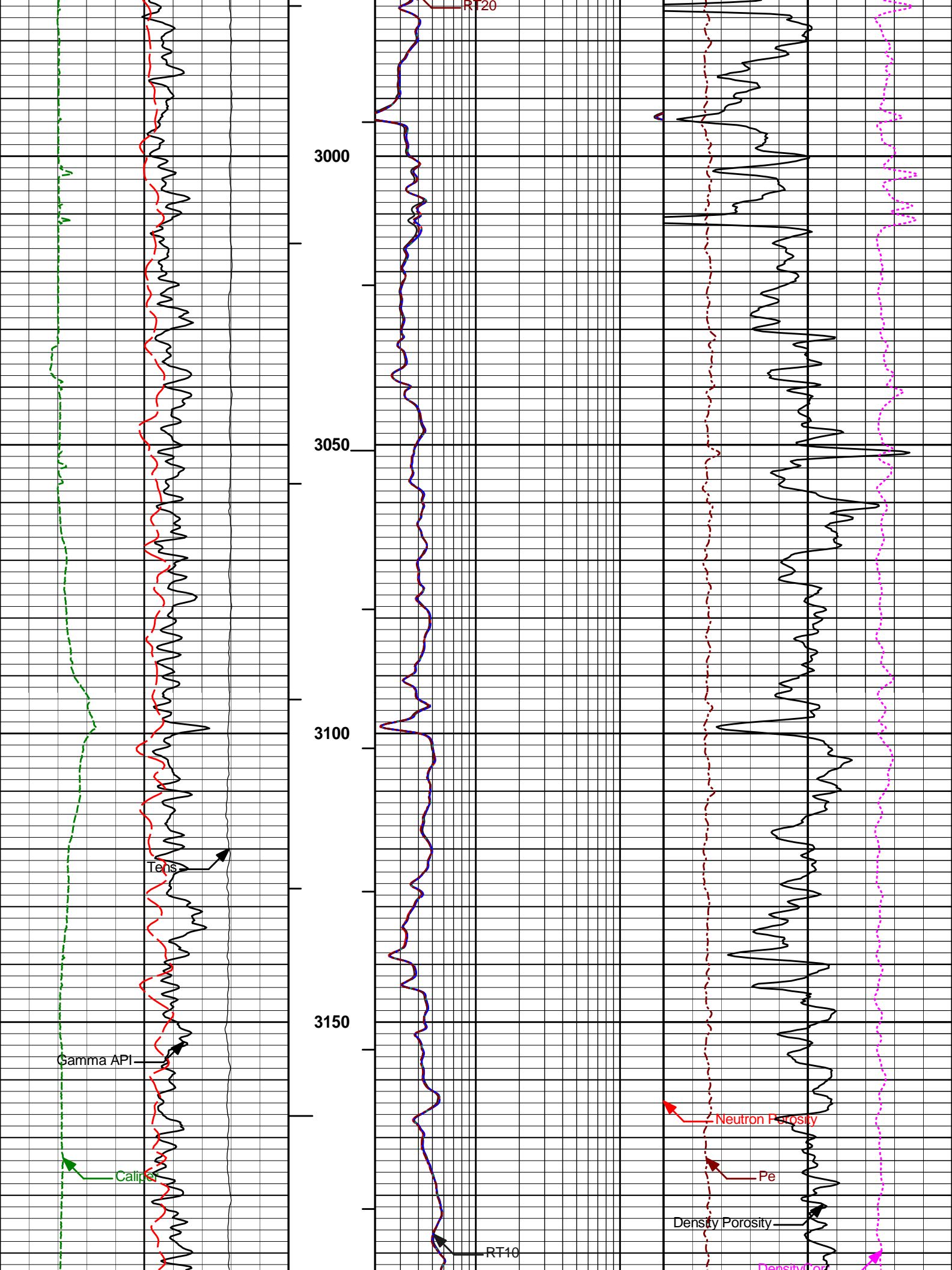


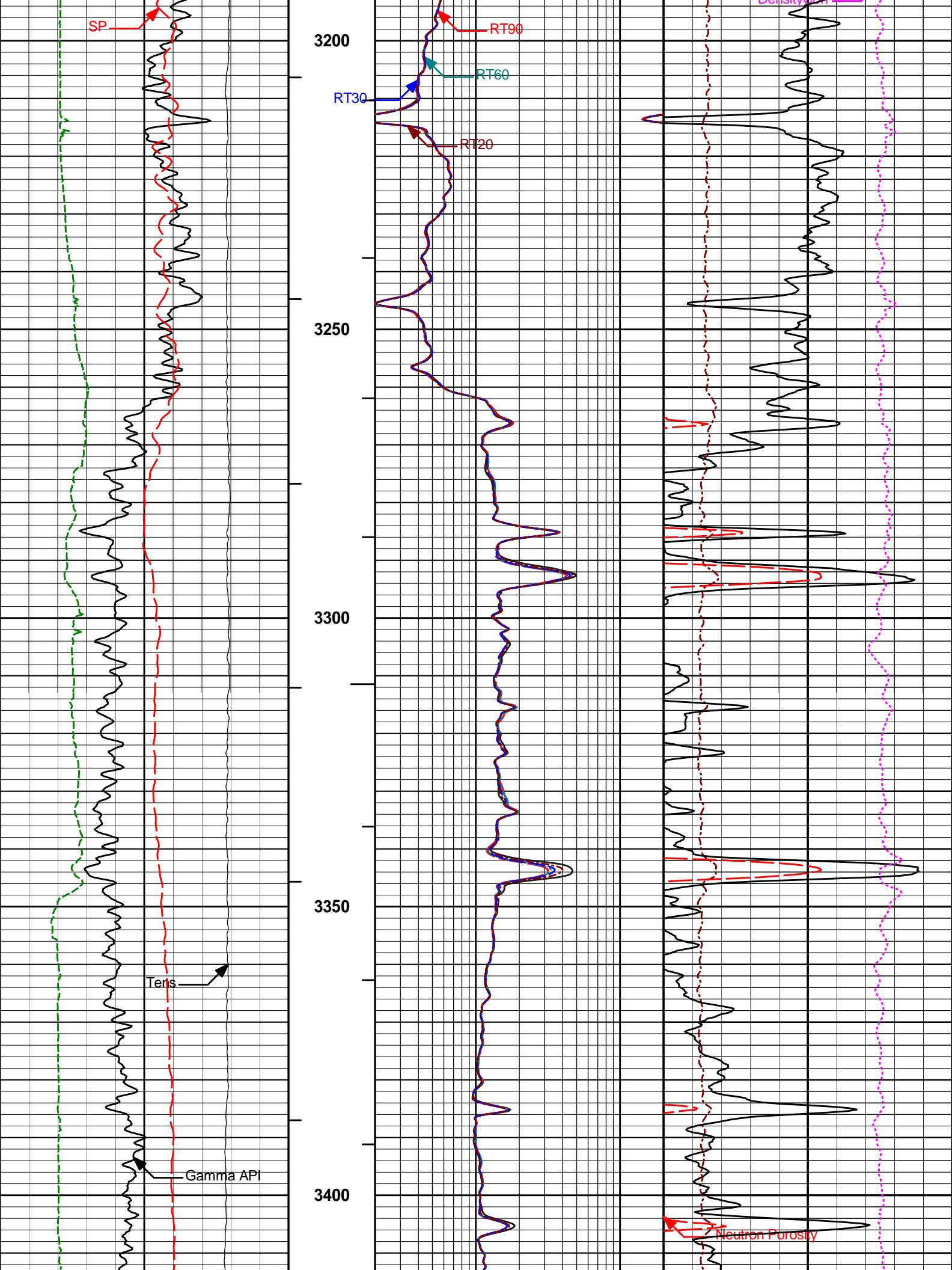


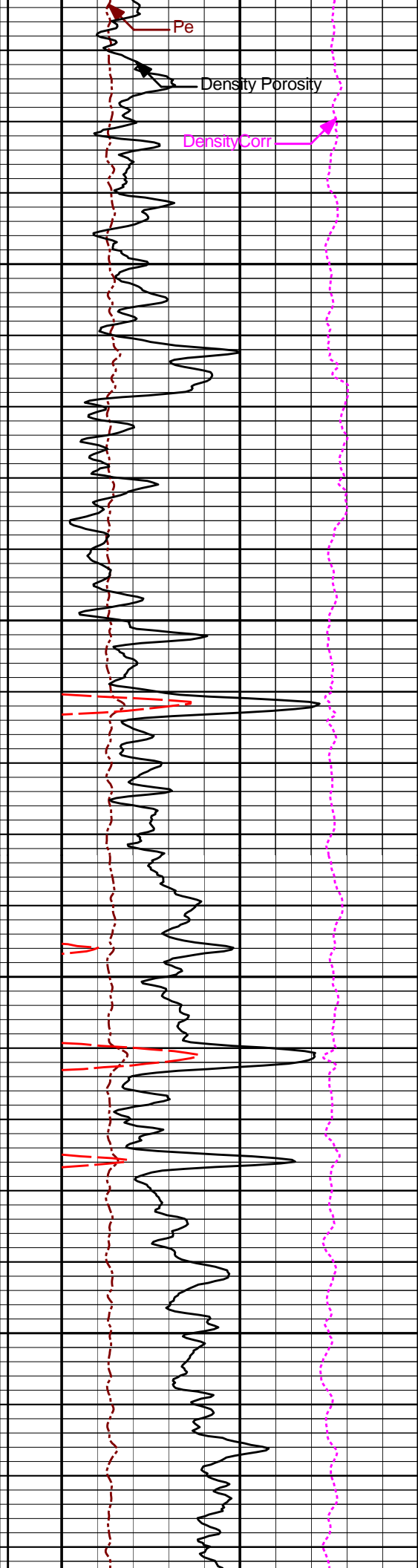
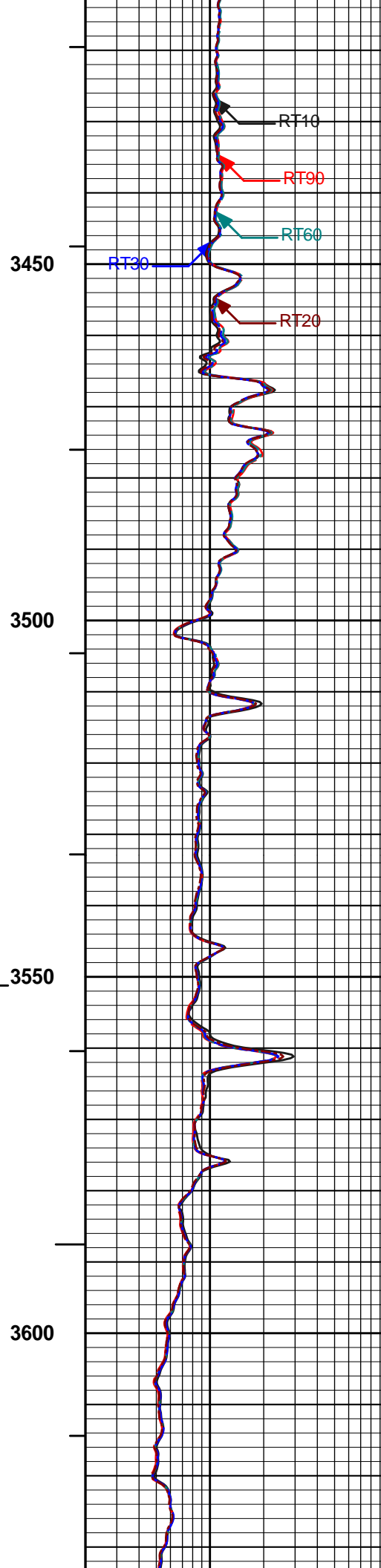
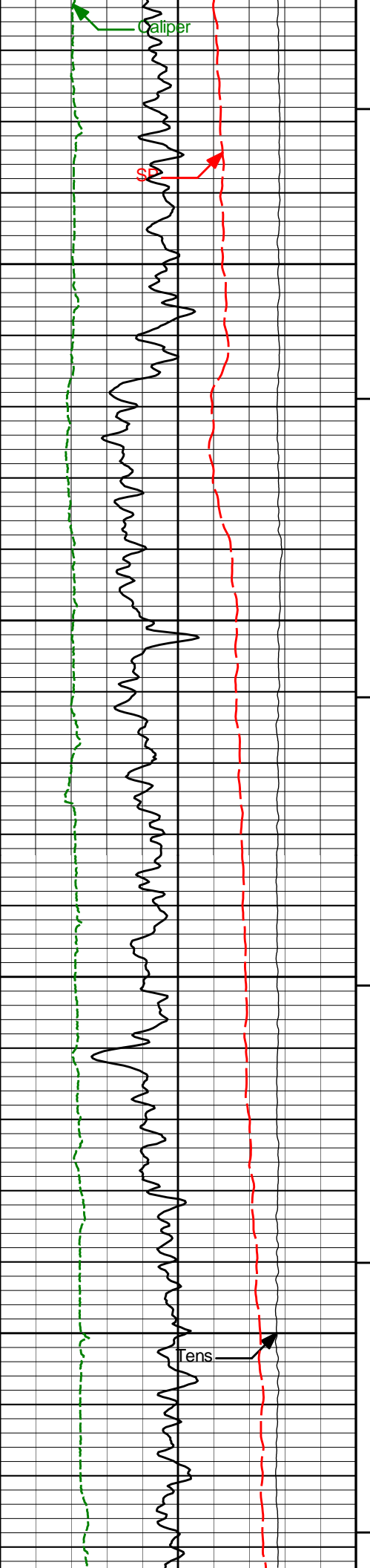


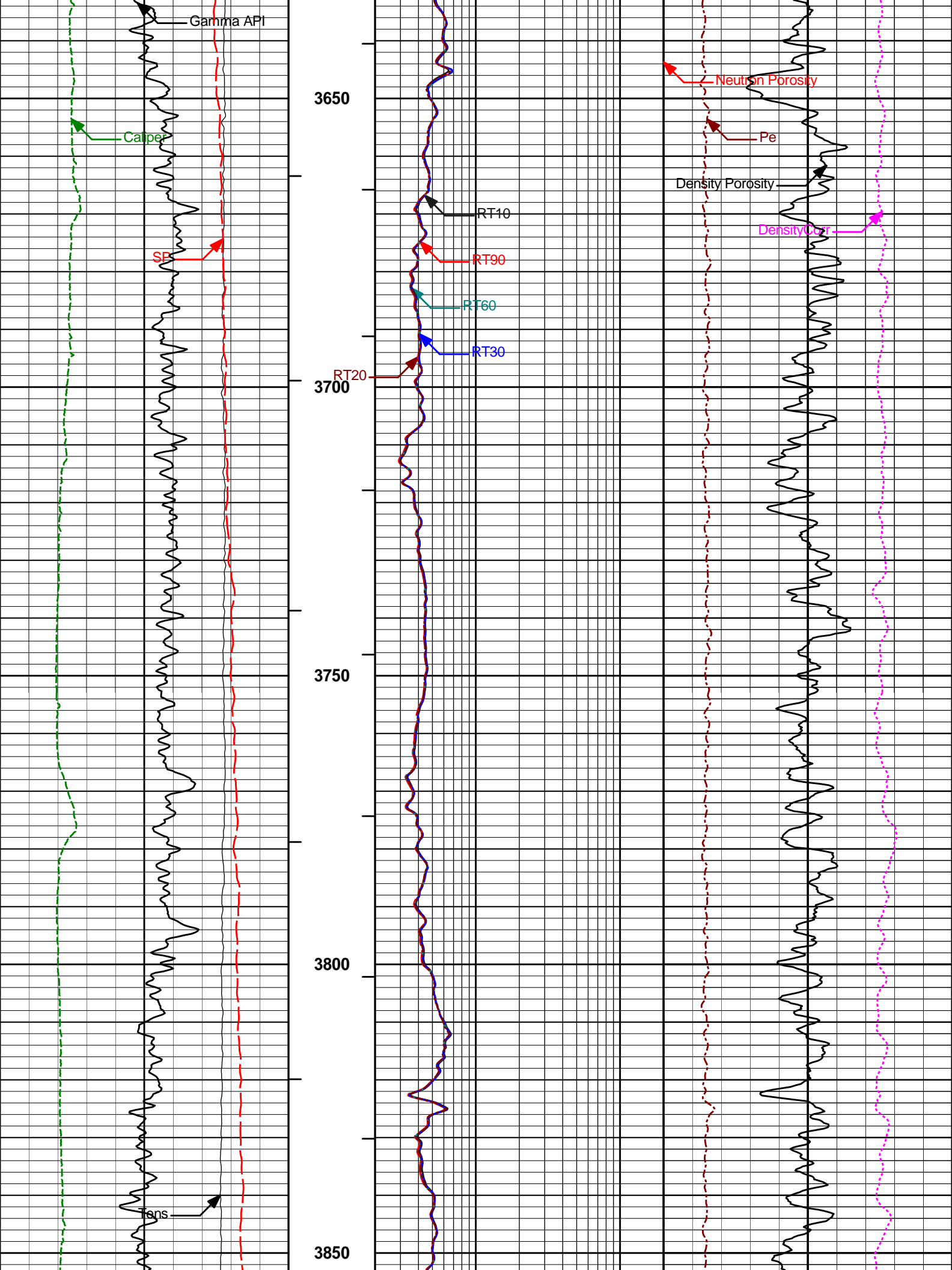


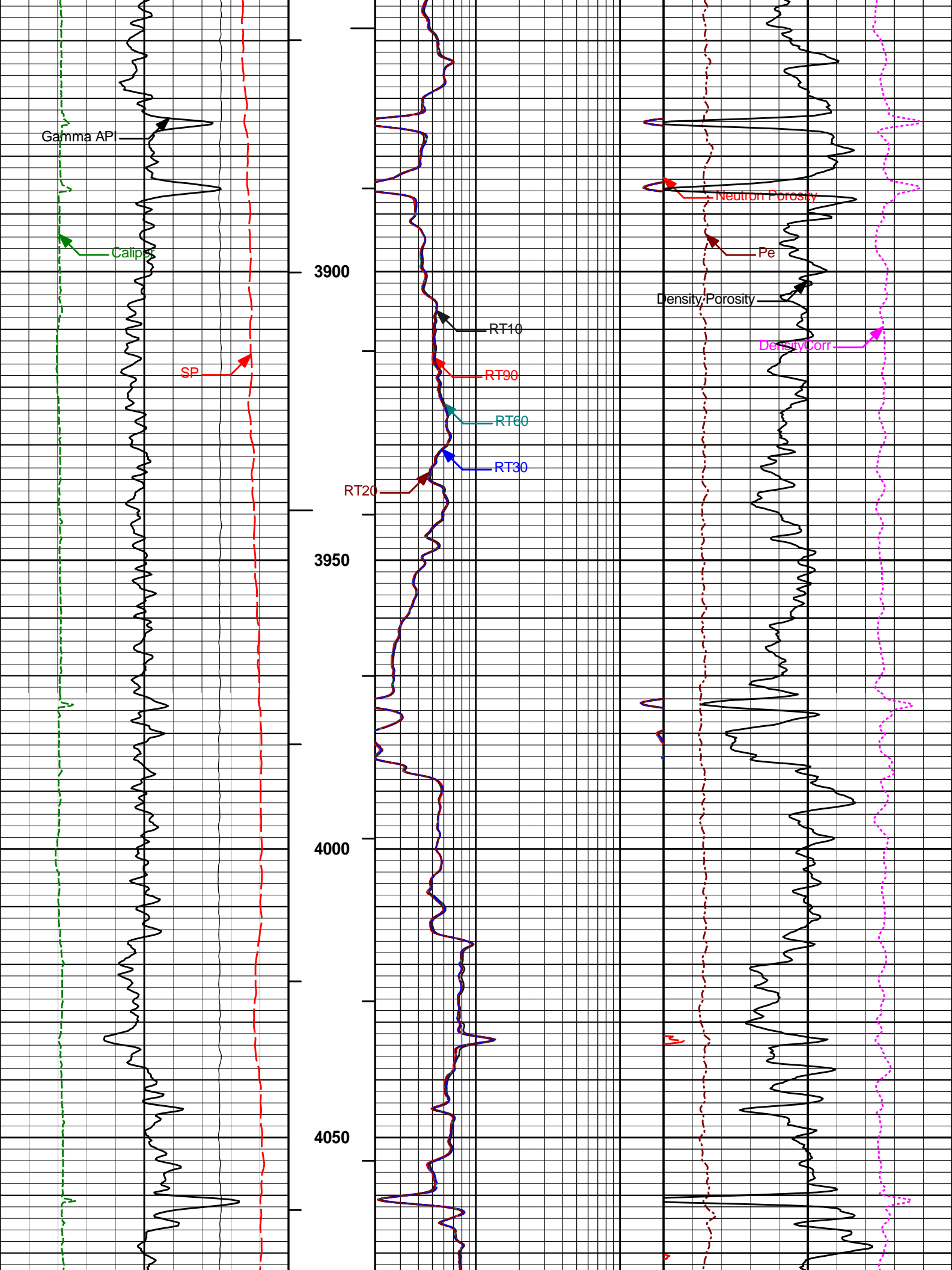


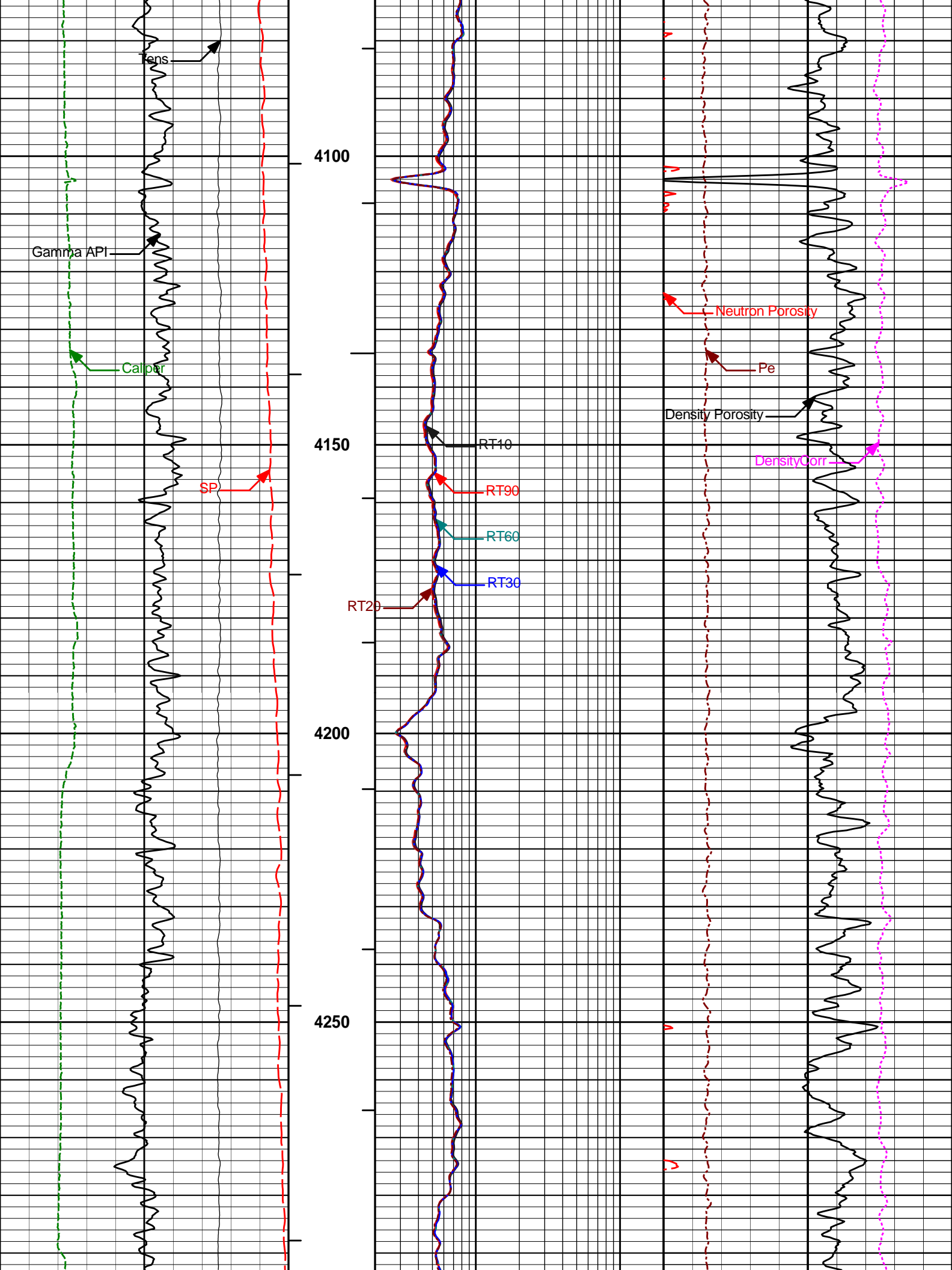


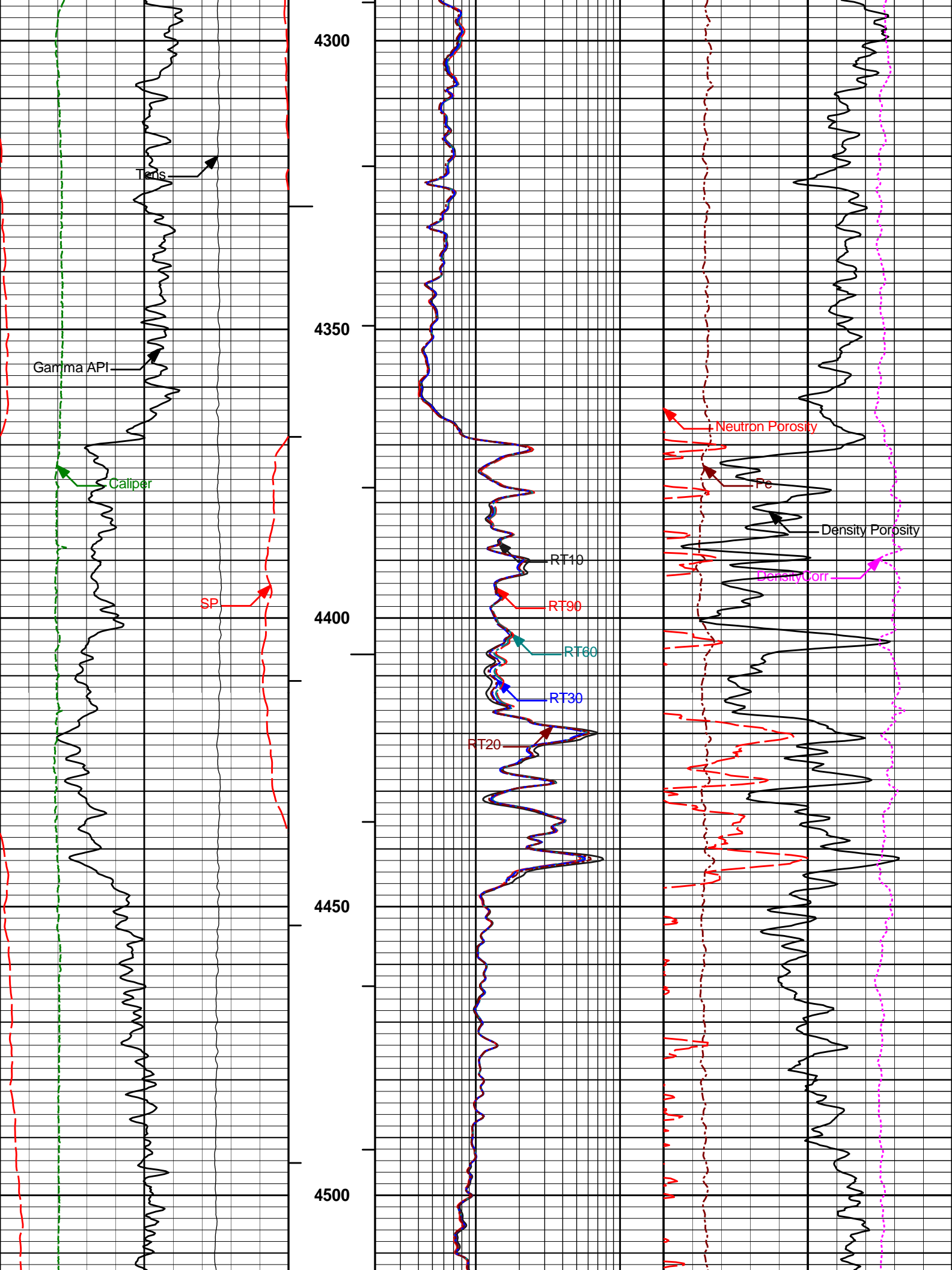


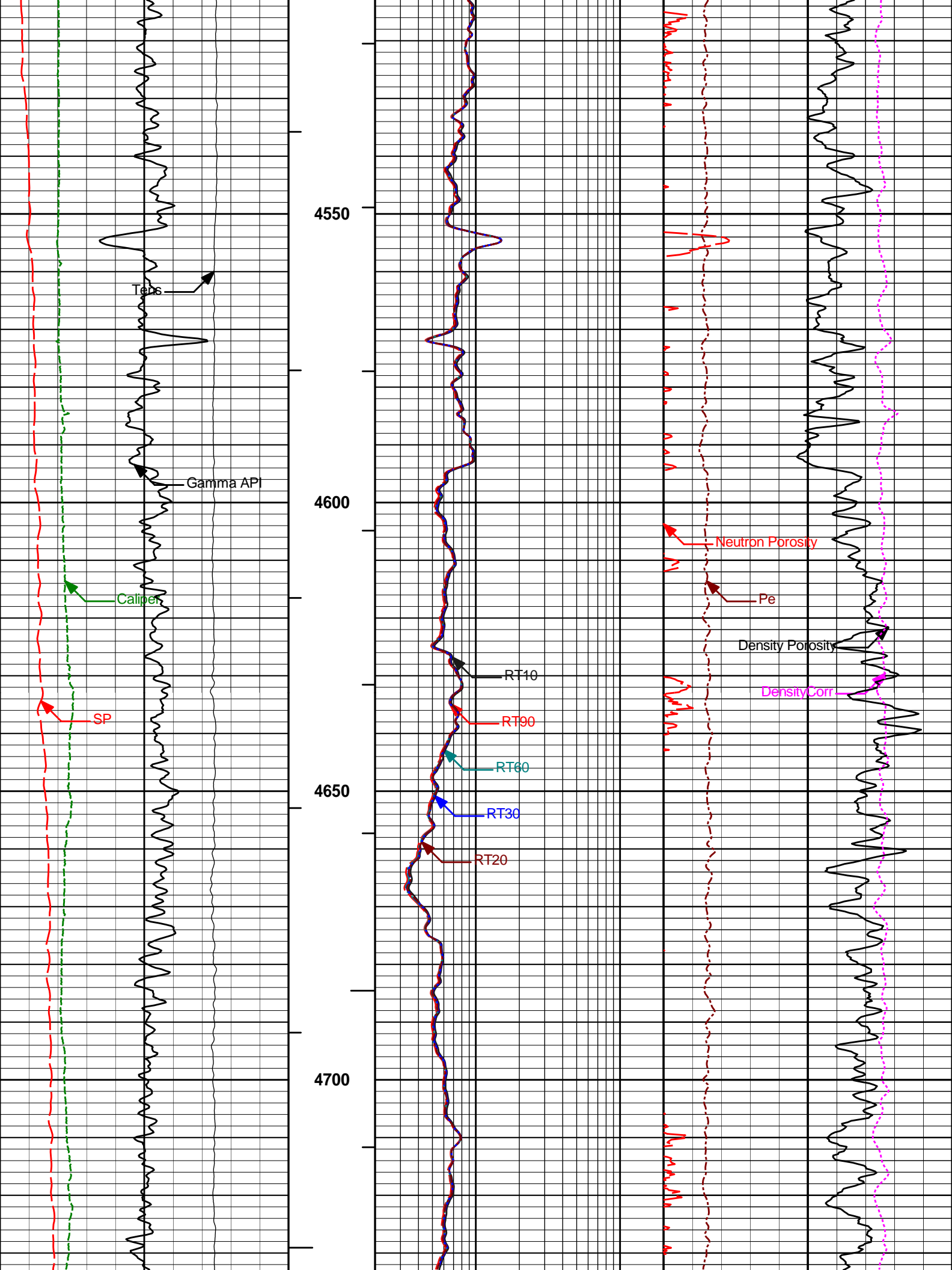


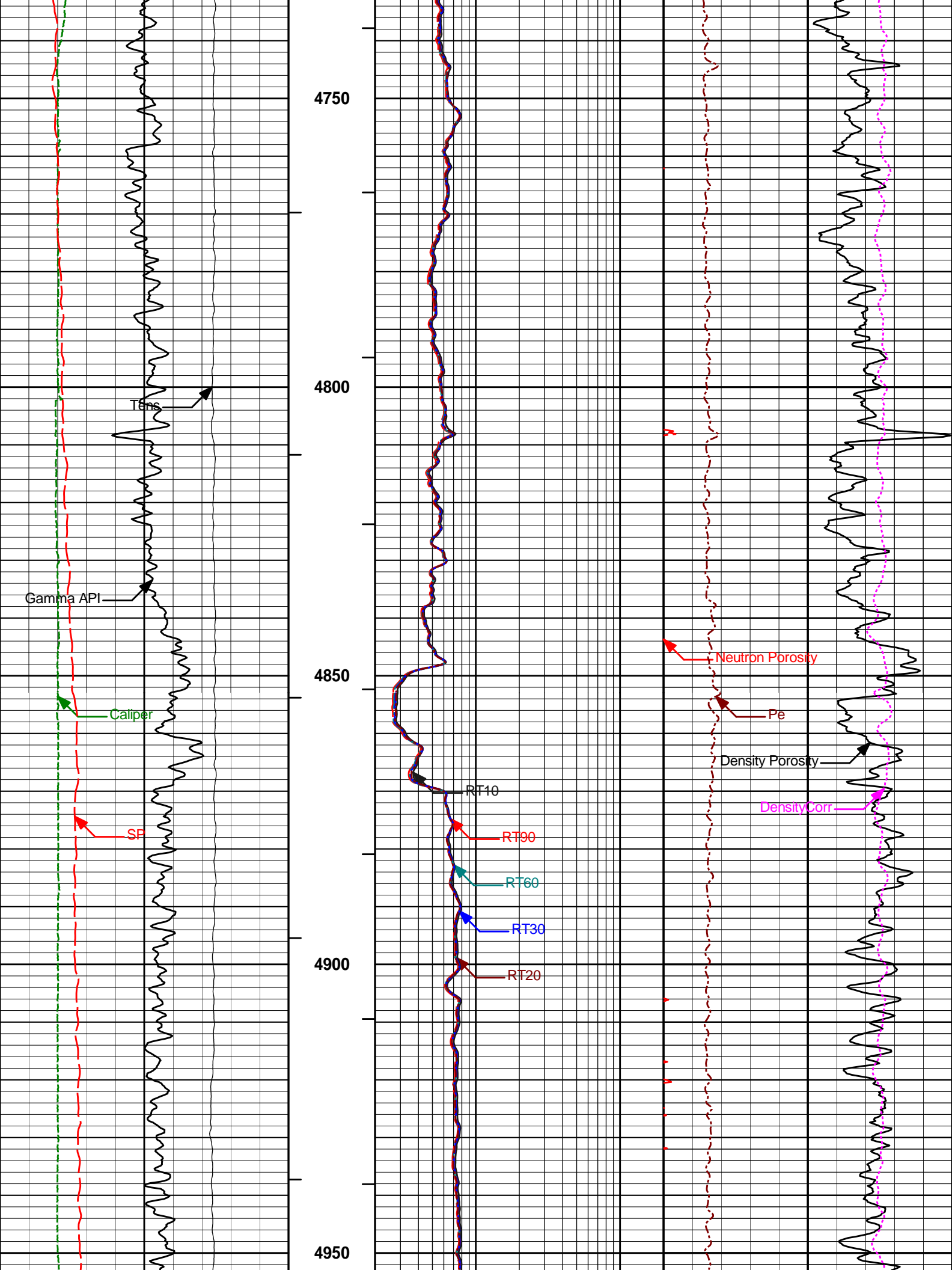


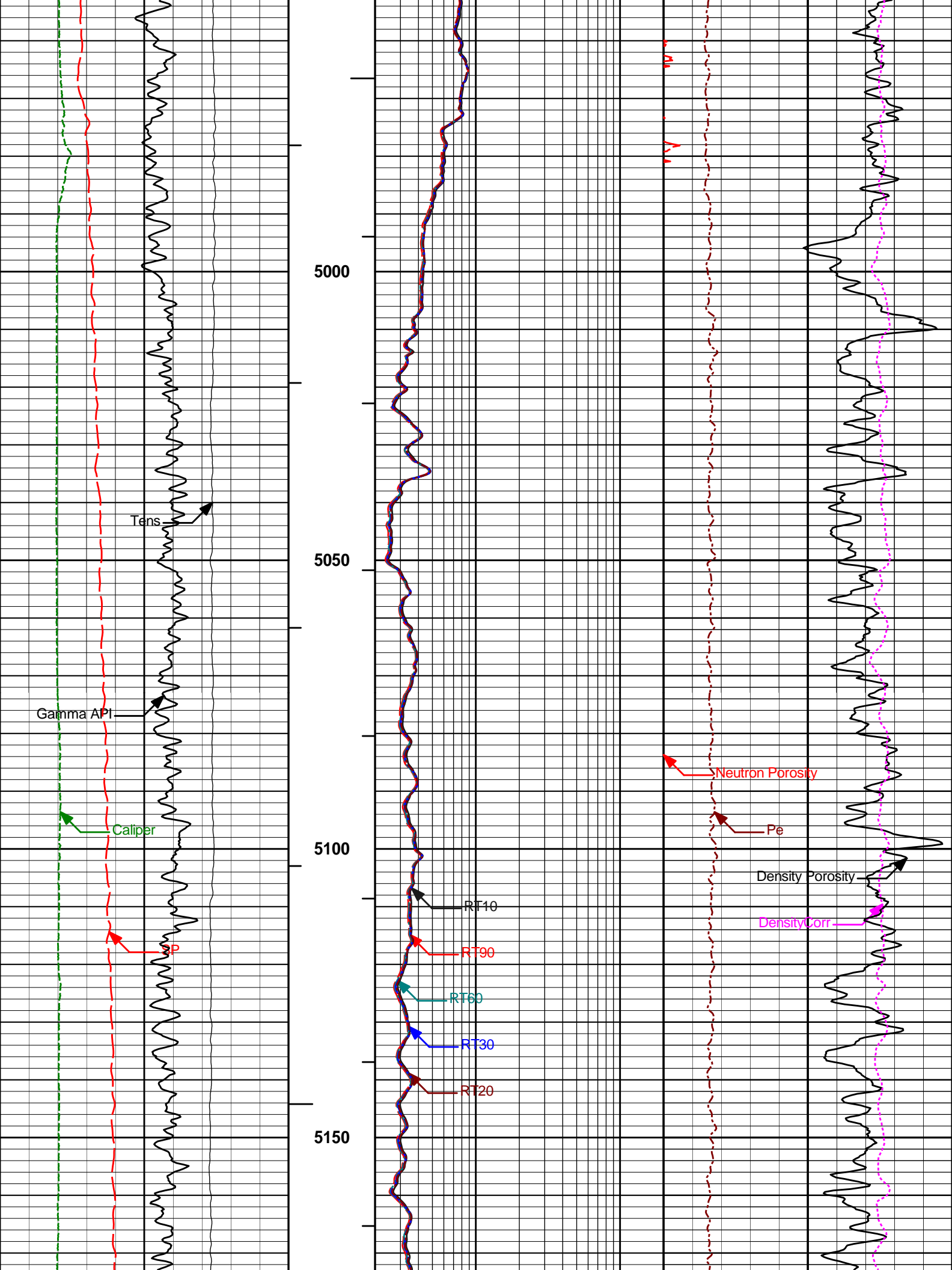


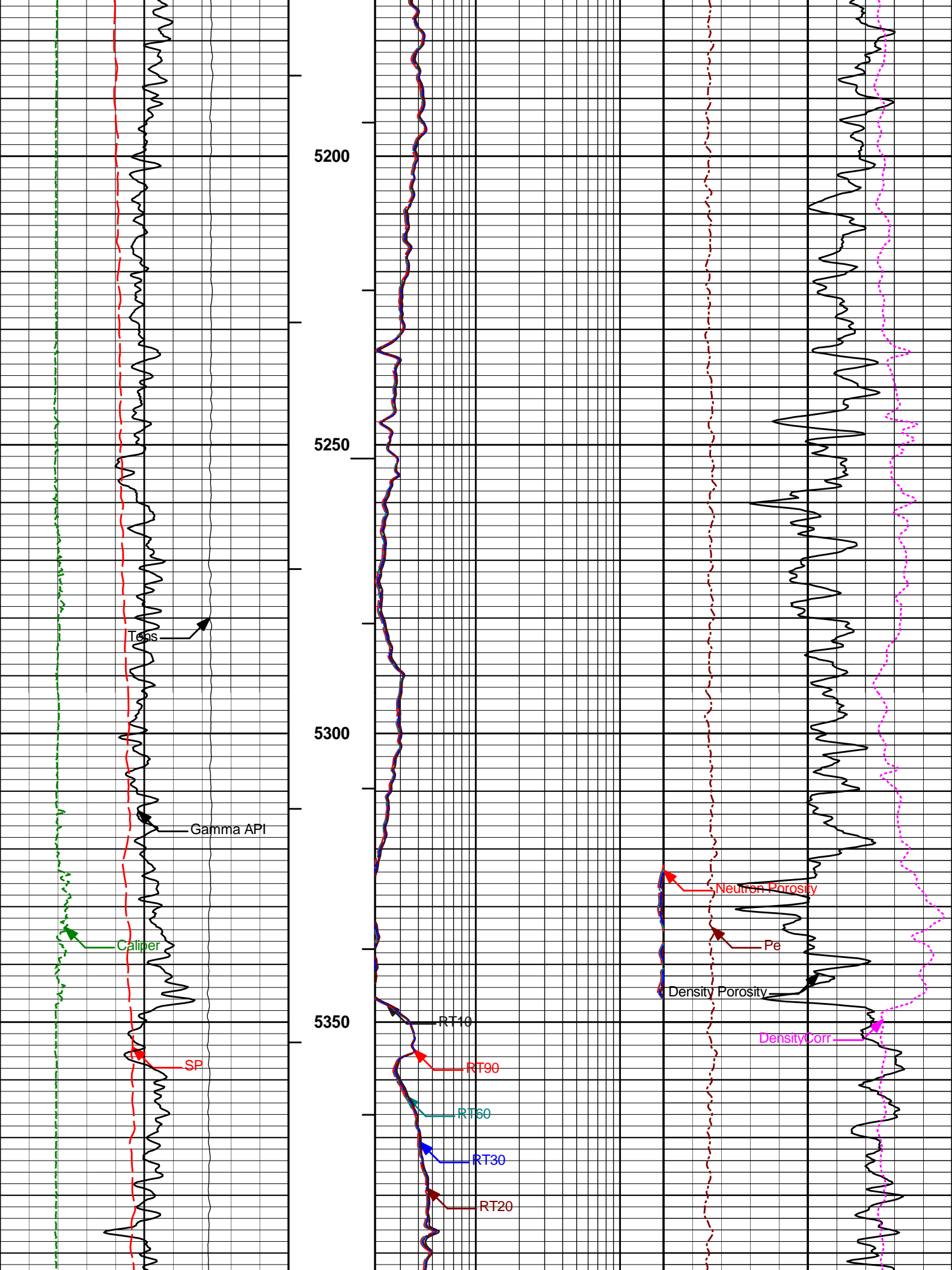


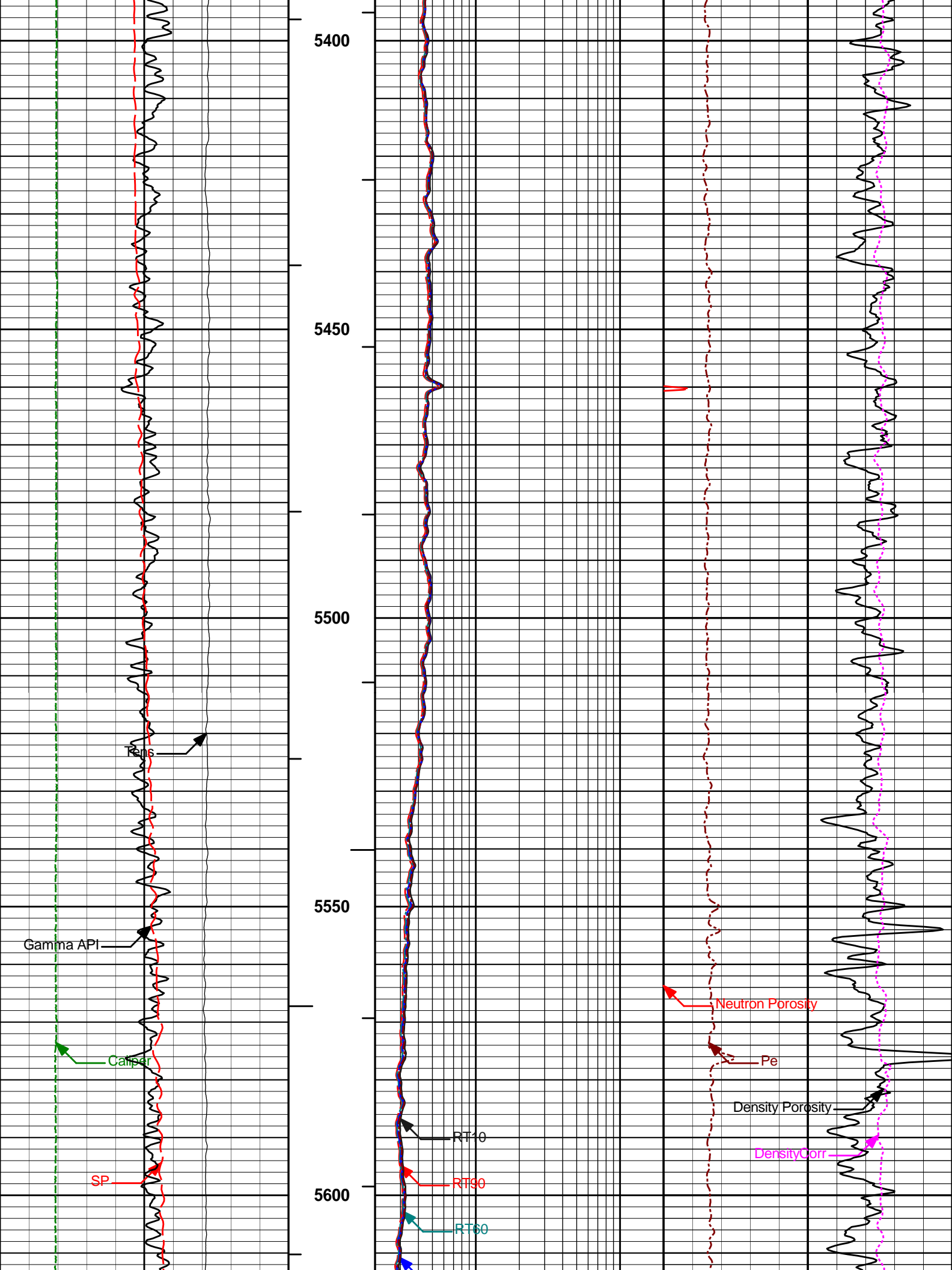


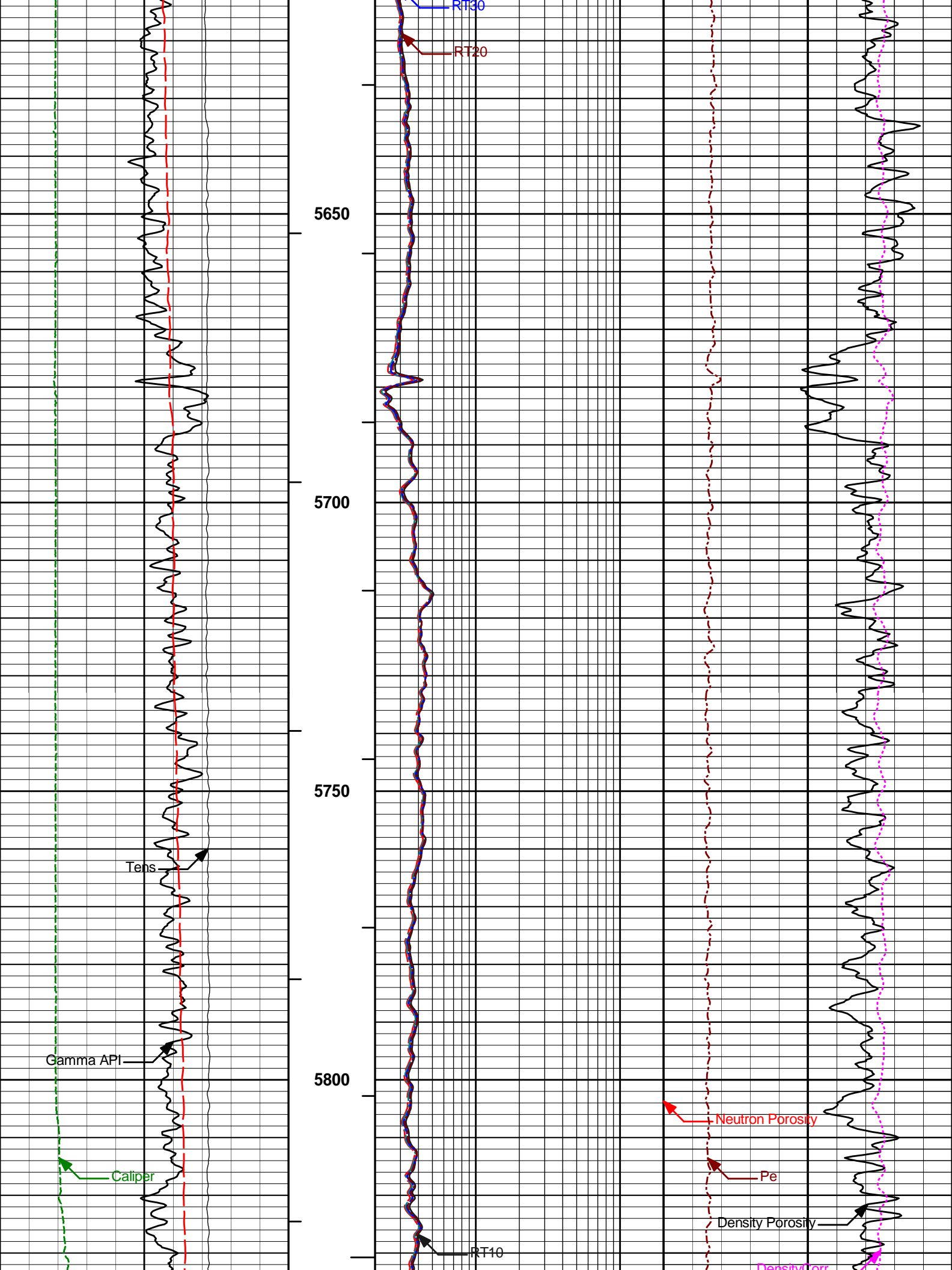


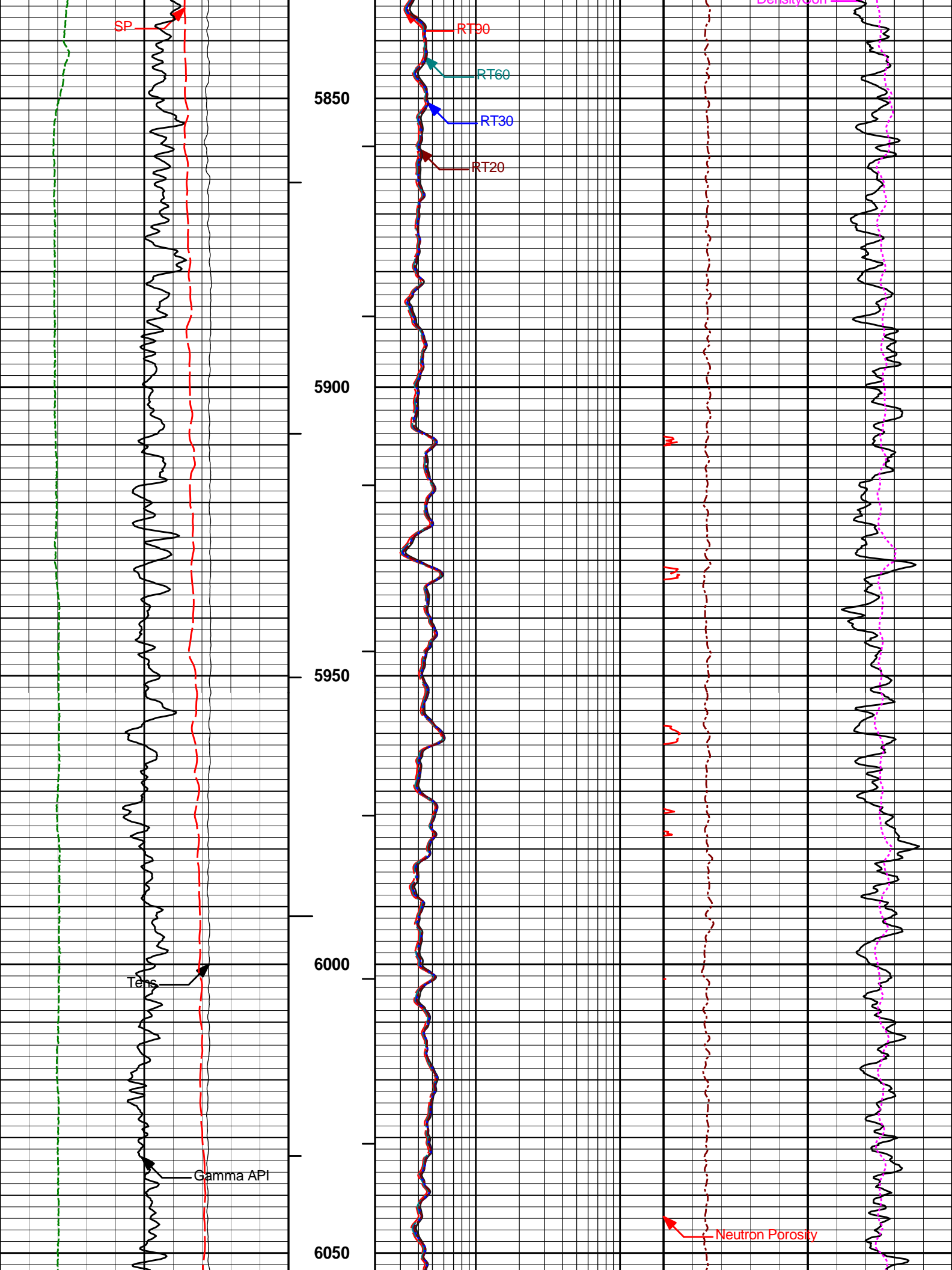


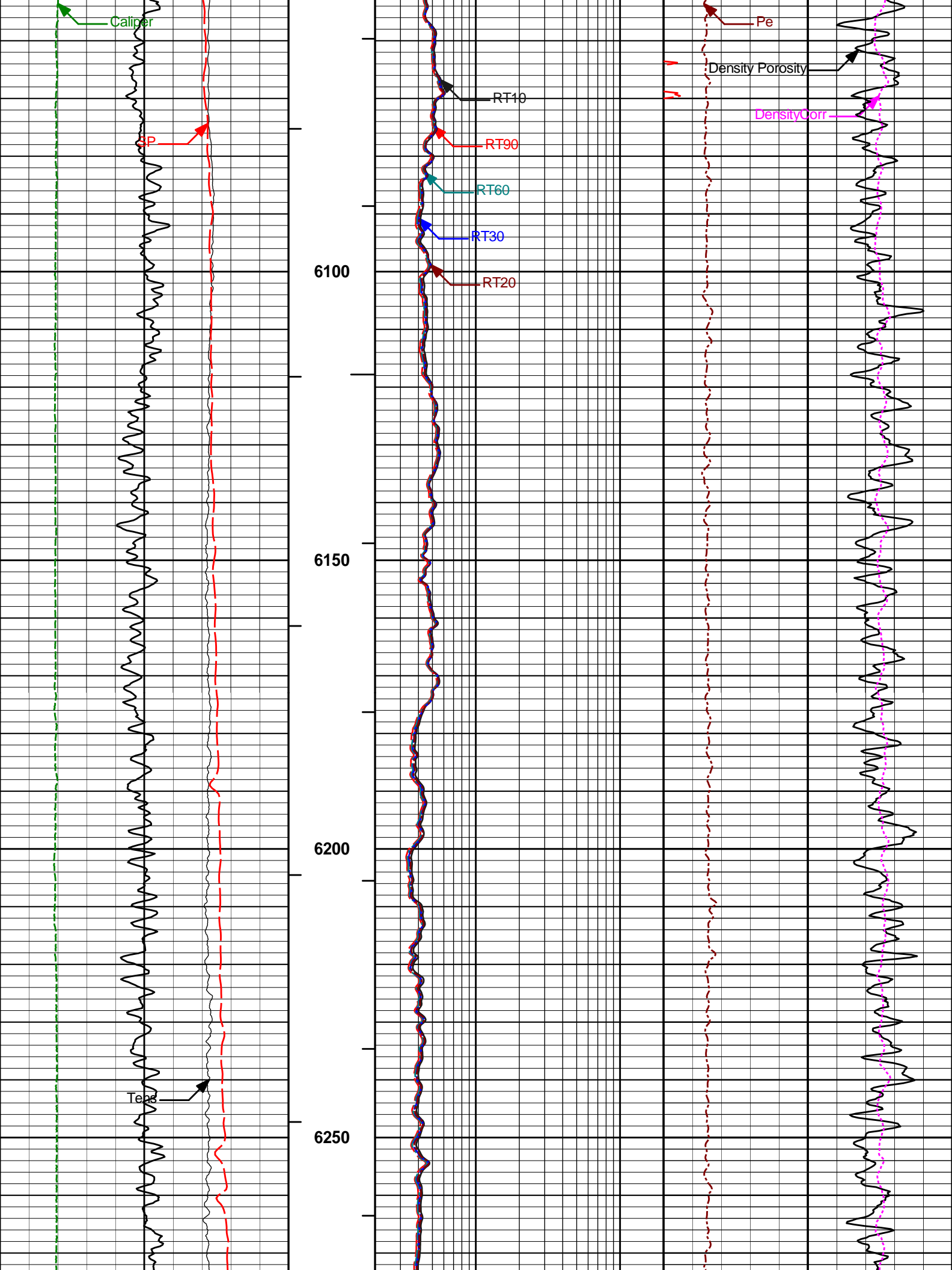


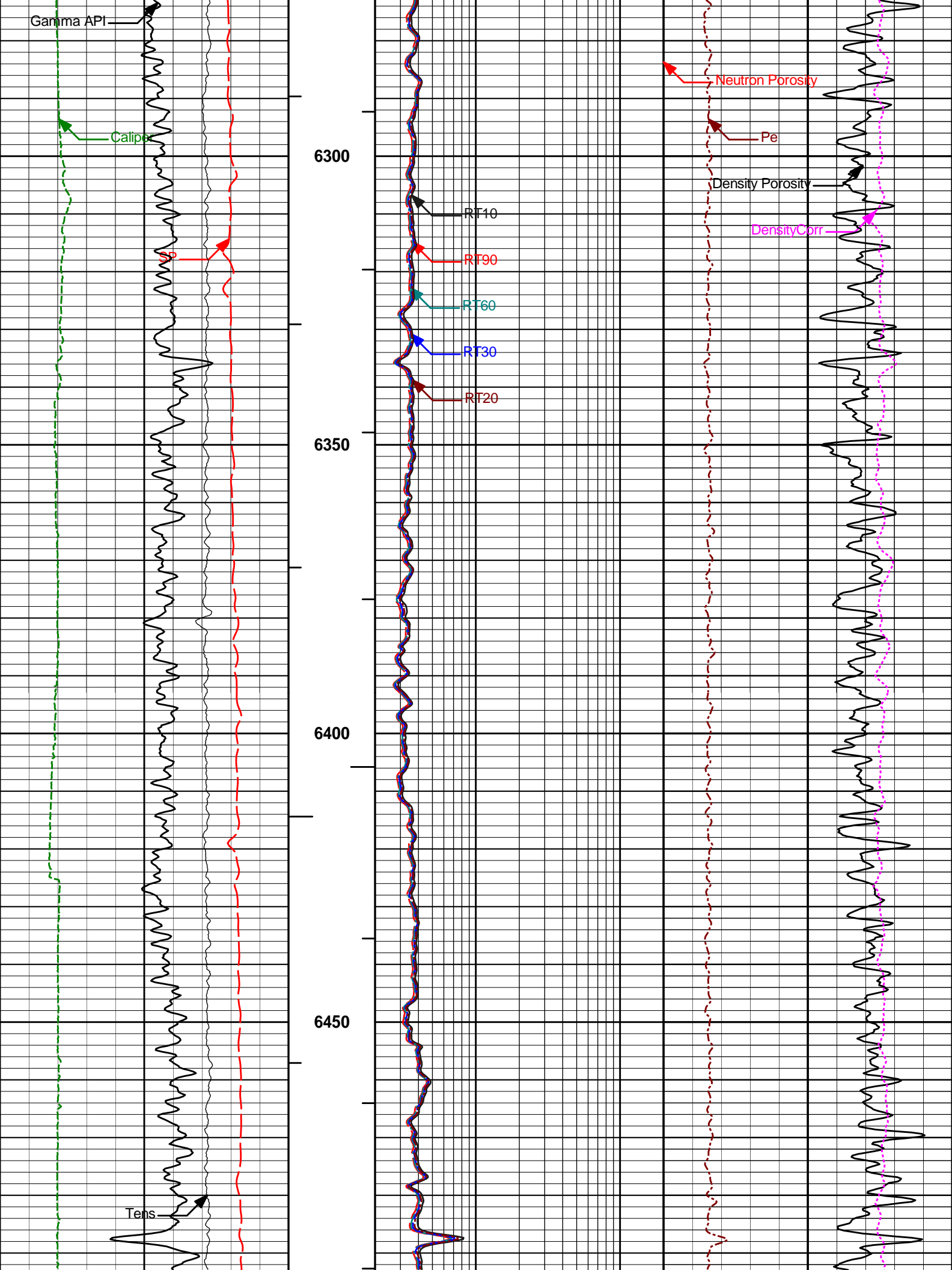


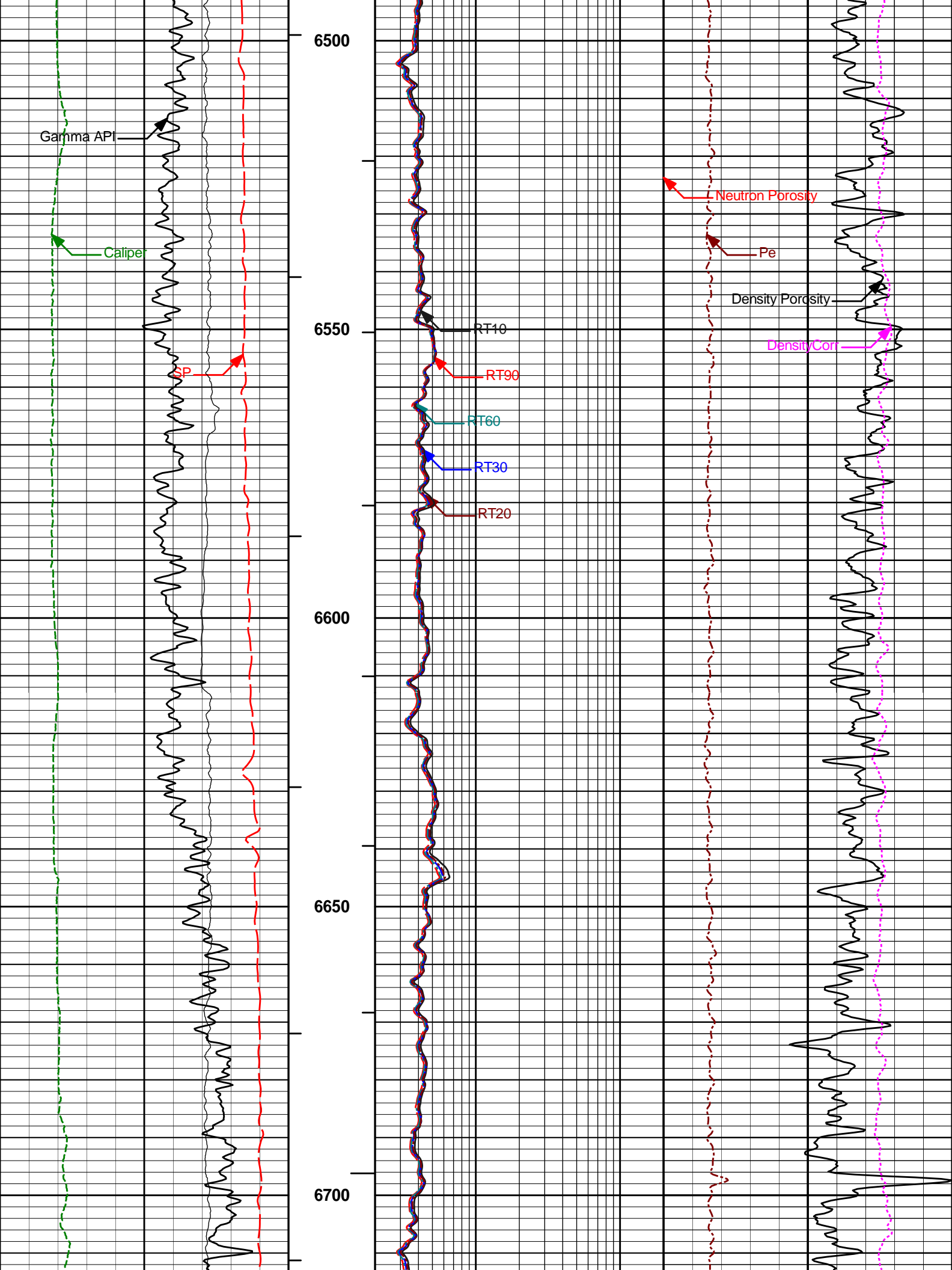


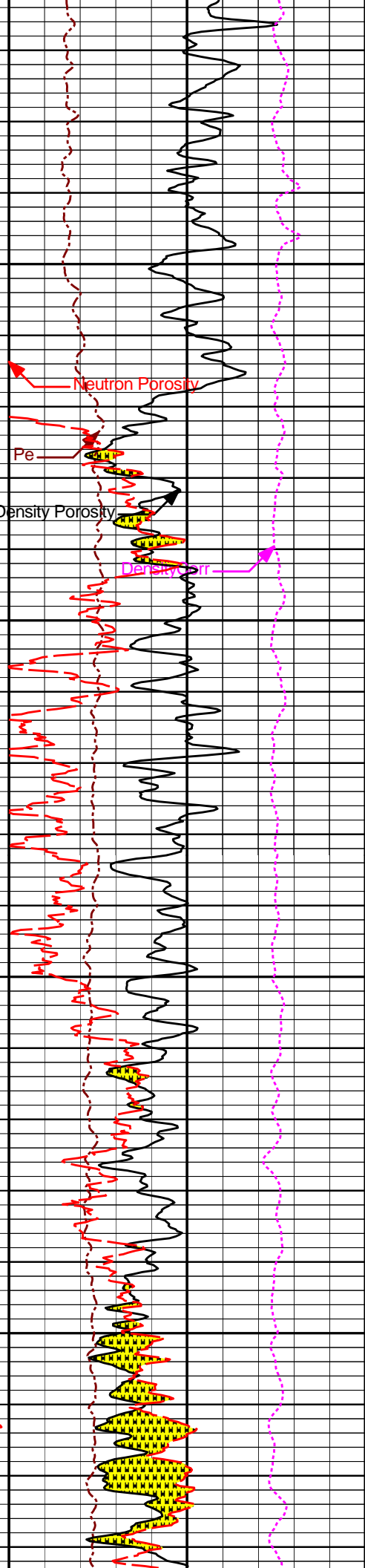
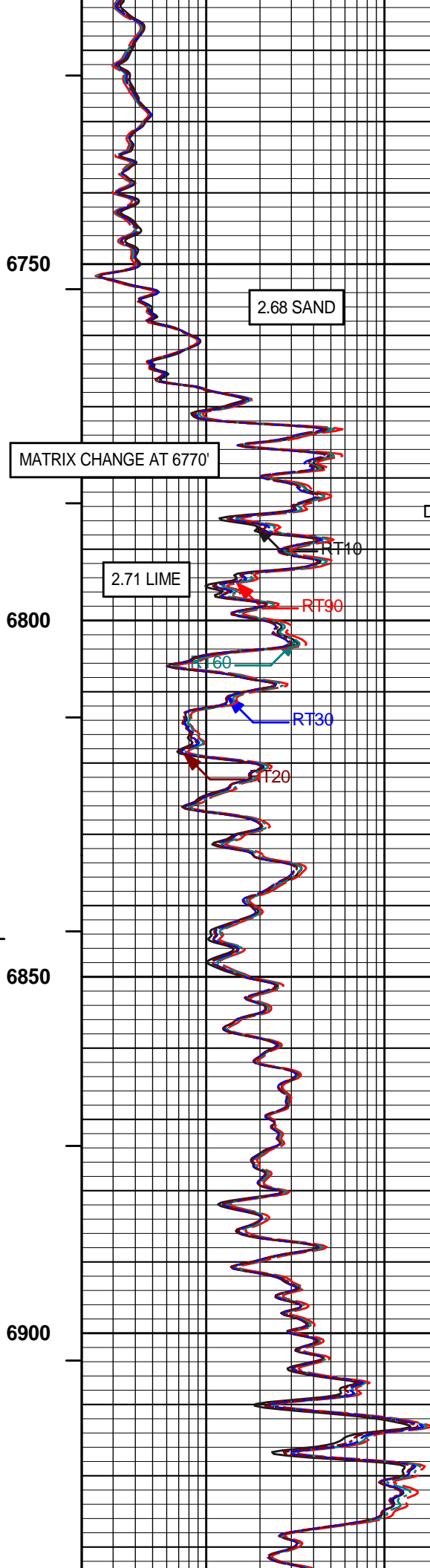
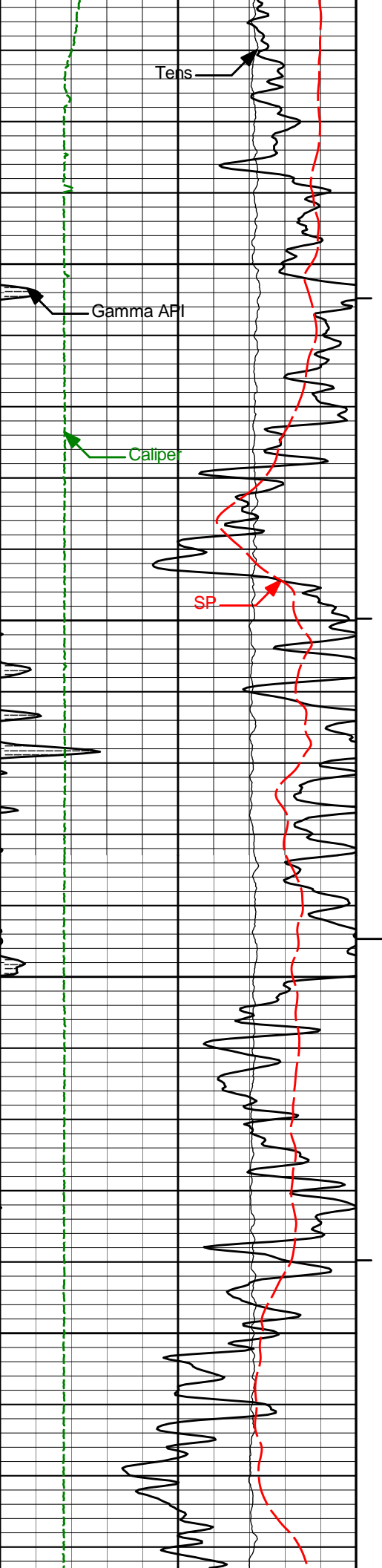


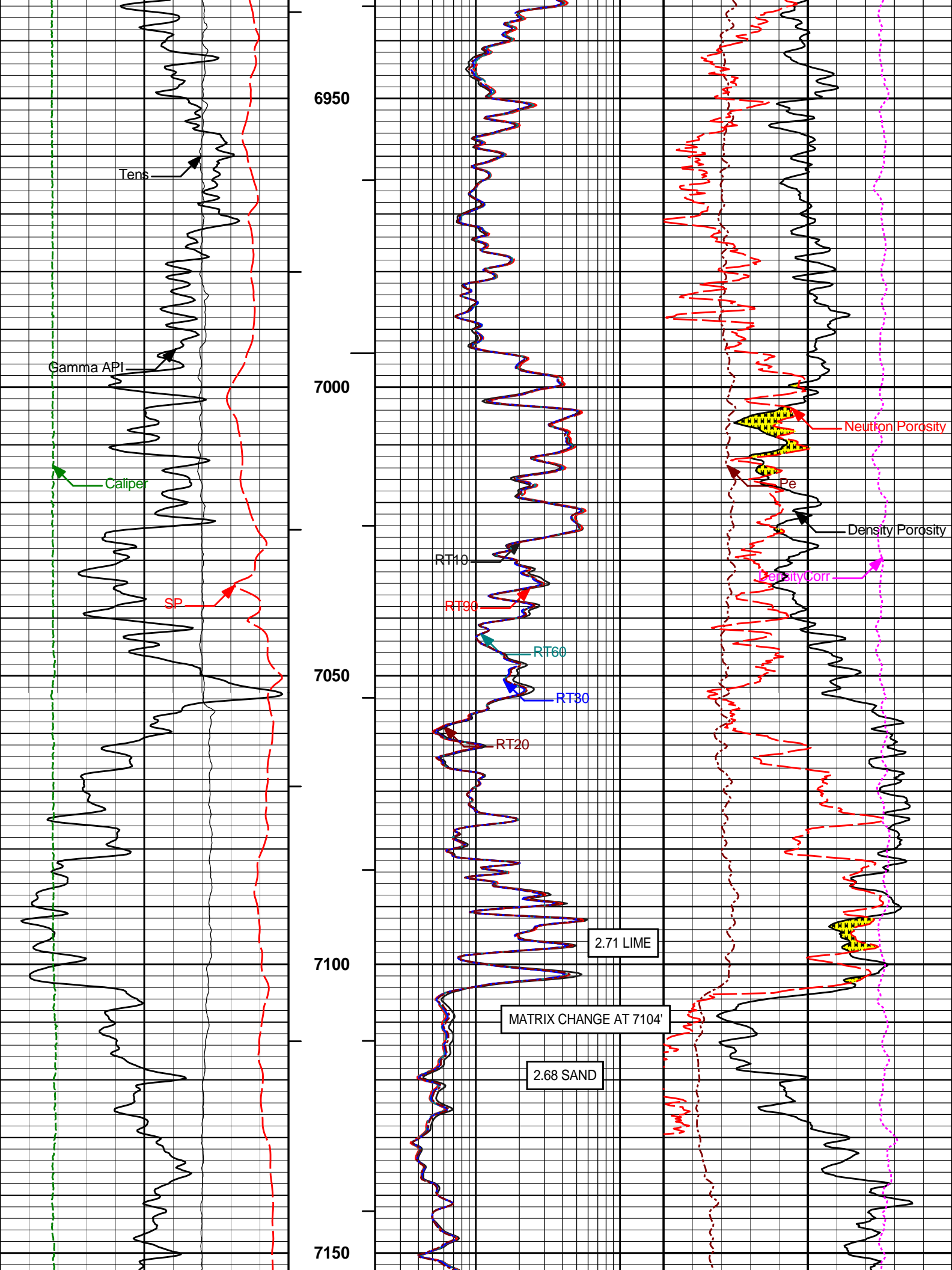


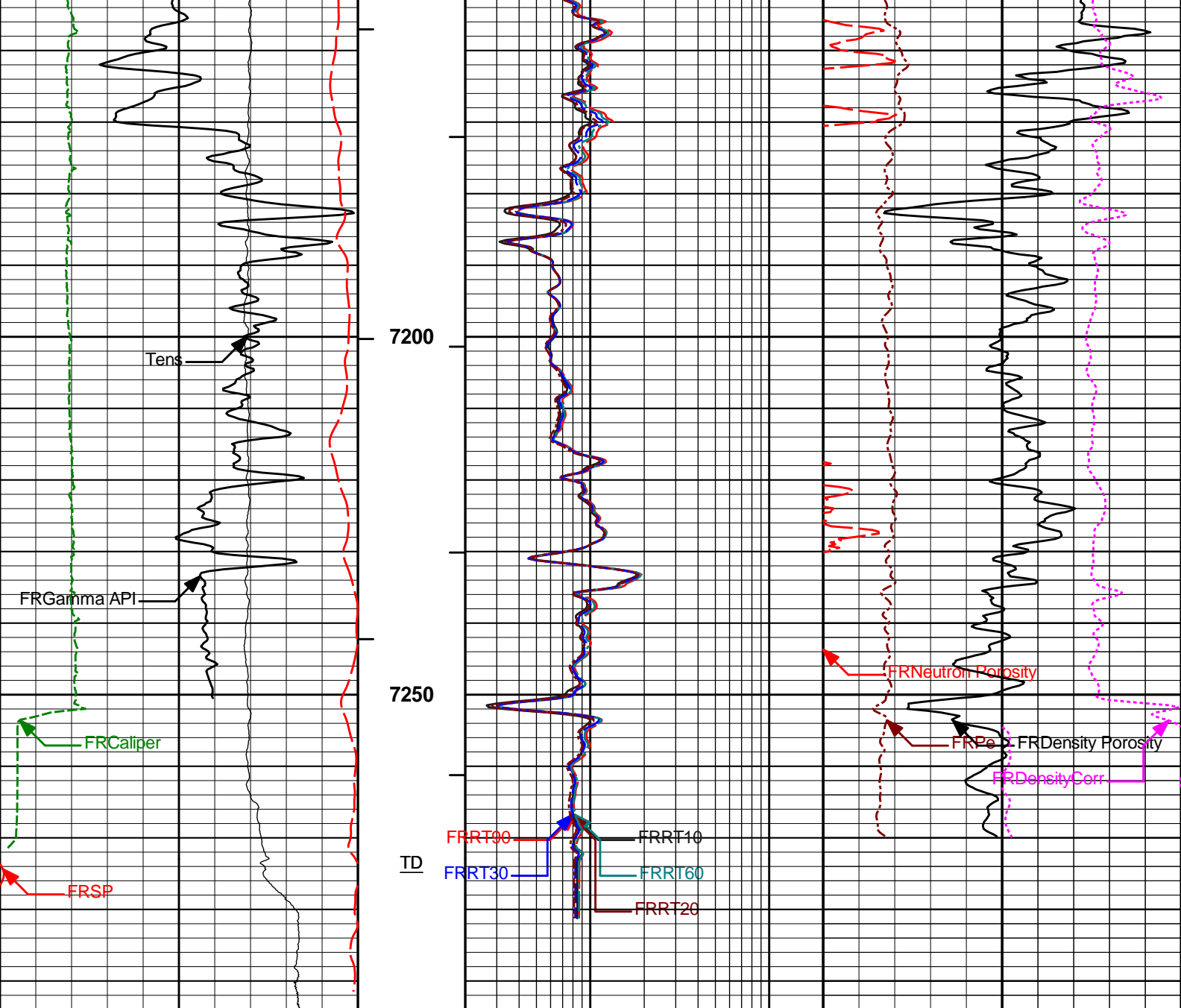












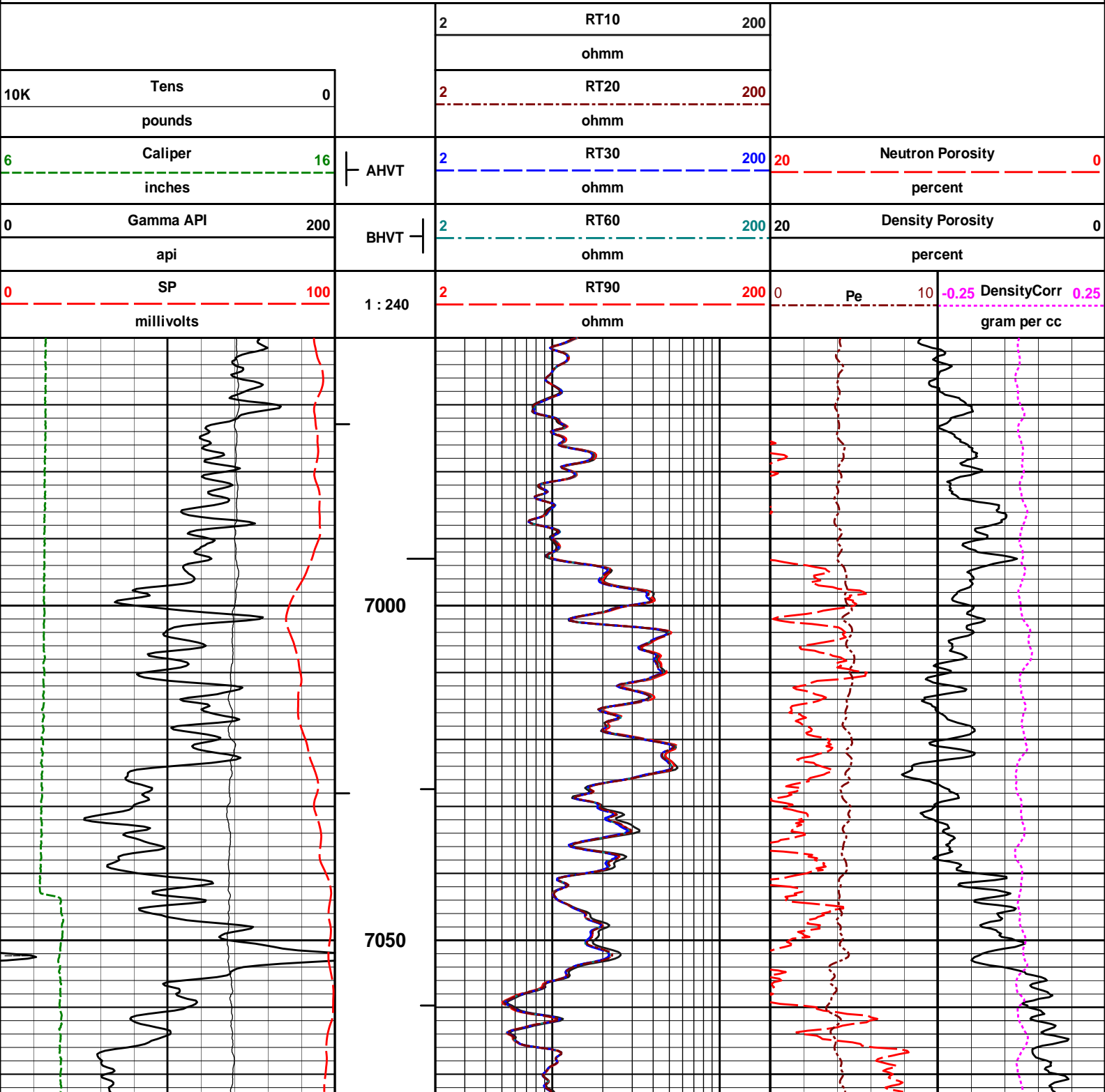
0	SP	100	1 : 240	2	RT90	200	0	Pe	10	-0.25	DensityCorr	0.25
	millivolts				ohmm						gram per cc	
0	Gamma API	200	BHVT	2	RT60	200	20	Density Porosity			percent	0
	api				ohmm							
6	Caliper	16	AHVT	2	RT30	200	20	Neutron Porosity			percent	0
	inches				ohmm							
10K	Tens	0		2	RT20	200						
	pounds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

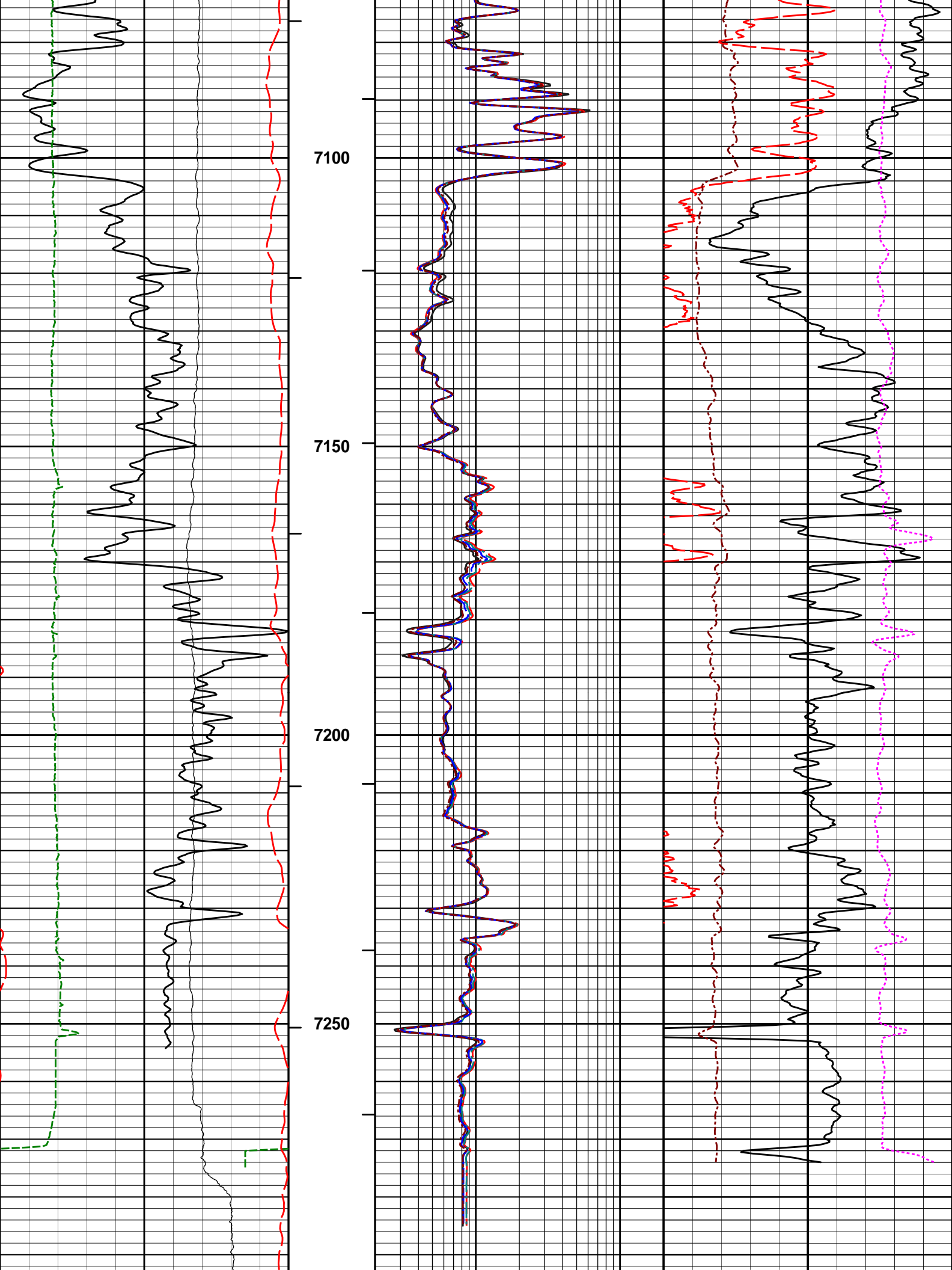
HALLIBURTON

Plot Time: 27-Nov-13 07:01:49
 Plot Range: 630 ft to 7294 ft
 Data: STALEY_25-7\Well Based\MAIN\
 Plot File: \COMP\MAIN

MAIN PASS 5" = 100'

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: 27-Nov-13 07:01:52
Plot Range: 6960 ft to 7297.75 ft
Data: STALEY_25-7\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:	26-Nov-13 14:35:21
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	71.0	api
Background + Calibrator	319.3	322.3	api
Calibrator	247.3	251.3	api

	Shop	Field	Difference	Tolerance
	247.3	251.3	-4.0	+/- 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

Engineer: J. PINKETT

Calibration Date: 26-Nov-13 14:41:03

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

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	0.0832	0.0016	+/- 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

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

Engineer: J. PINKETT

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

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

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

Engineer: J. PINKETT

Calibration Date: 26-Nov-13 14:32:03

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

Calibration Version: 1

MEASURED CALIPER VALUES				
Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.74	-0.01	+/- 0.10
Ring Diameter	8.25	8.25	0.00	+/- 0.15

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

SPECTRAL DENSITY SHOP CALIBRATION

Tool Name: SDLT Pad - 11816600

Reference Calibration Date: 26-Nov-13 13:46:18

Engineer: J. PINKETT

Calibration Date: 26-Nov-13 14:08:35

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				
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DENSITY CALIBRATION SUMMARY			
Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0632	1.0577	0.90 - 1.10
Near Dens Gain	1.0193	1.0182	0.90 - 1.10
Near Peak Gain	1.0109	0.9910	0.90 - 1.10
Near Lith Gain	0.9587	0.9562	0.90 - 1.10
Far Bar Gain	1.0076	1.0069	0.90 - 1.10
Far Dens Gain	0.9971	0.9971	0.90 - 1.10
Far Peak Gain	0.9903	0.9910	0.90 - 1.10
Far Lith Gain	0.9779	0.9782	0.90 - 1.10
Near Bar Offset	-0.5915	-0.5406	NONE
Near Dens Offset	-0.1607	-0.1529	NONE
Near Peak Offset	-0.0748	0.0933	NONE
Near Lith Offset	0.3568	0.3755	NONE
Far Bar Offset	-0.1143	-0.1088	NONE
Far Dens Offset	-0.0148	-0.0158	NONE
Far Peak Offset	0.0326	0.0258	NONE
Far Lith Offset	0.1223	0.1192	NONE
Near Bar Background	1009.22	1010.43	700 - 1450
Near Dens Background	334.89	334.80	230 - 480
Near Peak Background	147.00	146.79	100 - 210
Near Lith Background	179.84	179.36	125 - 260
Far Bar Background	644.97	643.87	450 - 900
Far Dens Background	253.23	254.10	175 - 345
Far Peak Background	100.61	100.96	70 - 140
Far Lith Background	103.68	103.28	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	-0.001	+/- 0.015
Pe	2.586	2.601	0.015	+/- 0.150
ALUMINUM				
Density (g/cc)	2.601	2.602	0.001	+/- 0.01500
Pe	3.047	3.061	0.014	+/- 0.150

TOOL SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	-0.0009	+/- 0.0110	-0.0002	+/- 0.0140
Magnesium Block	0.0001	+/- 0.0110	-0.0011	+/- 0.0140
Aluminum Block	-0.0009	+/- 0.0110	0.0001	+/- 0.0140
Resolution	8.56	6.00 - 11.50	8.73	6.00 - 11.50
Internal Verifier(B+D+P+L)	1671	1200 - 2700	1102	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 - 11816600

Reference Calibration Date: 26-Nov-13 14:08:35

Engineer: J. PINKETT

Calibration Date: 26-Nov-13 14:23:00

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

Calibration Version: 1

Pad Temperature: 67.2 degF

DENSITY FIELD CALIBRATION SUMMARY

Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1671.375	1674.545	3.170	16.418
Far (B+D+P+L) cps	1102.209	1106.243	4.034	17.520
Near Resolution	8.56	8.71	0.150	0.50
Far Resolution	8.73	8.83	0.100	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 13:40:19

Engineer: J. SCHMIDT

Calibration Date: 30-Oct-13 13:56:18

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

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	1.01	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	1.00	1.05	0.95	1.01	1.05	0.95	1.01	1.05
A5 (10")	N/A	N/A	N/A	0.95	1.00	1.05	0.95	1.00	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.98	1.05	0.95	0.98	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	-1.35	2	-6	-4.21	-2	-8	-5.33	-2
A2 (50")	-7	-2.98	0	-7	-3.97	0	-7	-4.53	0
A3 (29")	-27	-13.90	-9	-9	-4.05	-3	-7	-3.22	-1
A4 (17")	-180	-96.11	-60	-45	-30.11	-15	-39	-24.18	-13
A5 (10")	N/A	N/A	N/A	-150	-100.30	-50	-80	-46.88	-10
A6 (6")	N/A	N/A	N/A	175	315.80	525	90	159.84	270

TRANSMITTER CURRENT GAIN

Signal	Lower	R	Upper
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R-MUD VERIFICATION

Signal	Lower	Measured	Upper
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Signal	Lower	Upper	Signal	(ohm-m)	(ohm-m)	(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							

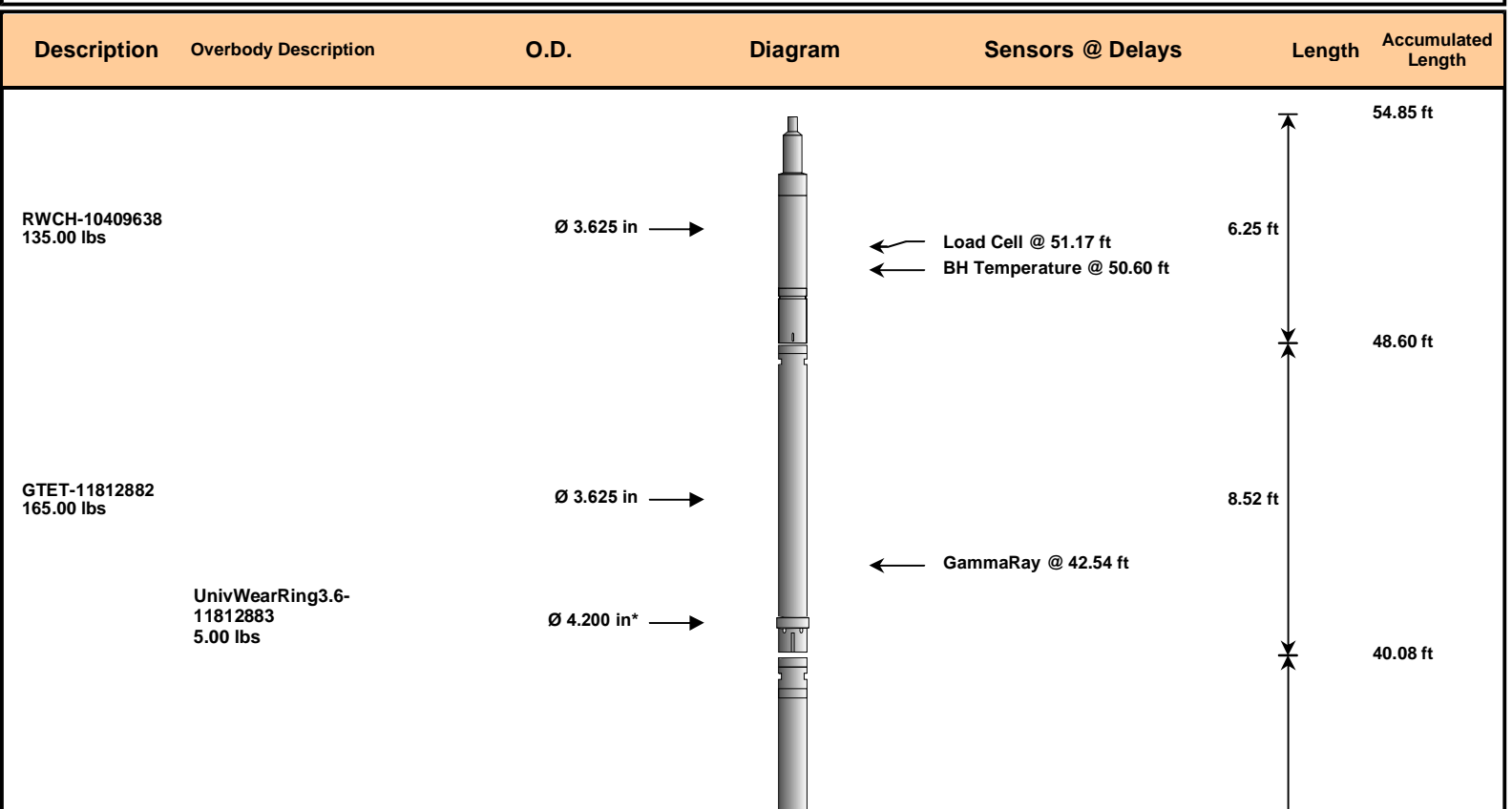
CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11812882						
Gamma Ray Calibrator	247.3	251.3	-----	-4.0	+/- 9.00	api
DSNT-11301132						
Snow-Block Porosity	0.0815	0.0832	-----	-0.0017	+/- 0.0150	decg
SDLT-11107335						
Pad Extension	3.75	3.74	-----	0.01	+/-0.10	in
Ring Diameter	8.25	8.25	-----	0.00	+/-0.15	in
SDLT Pad-11816600						
Near(B+D+P+L)	1671.375	1674.545	-----	-3.170	+/-16.418	cps
Far(B+D+P+L)	1102.209	1106.243	-----	-4.034	+/-17.520	cps
ACRt Sonde-11294352						
Mud Cell	0.98	-----	-----	0.00	-----	ohm-m

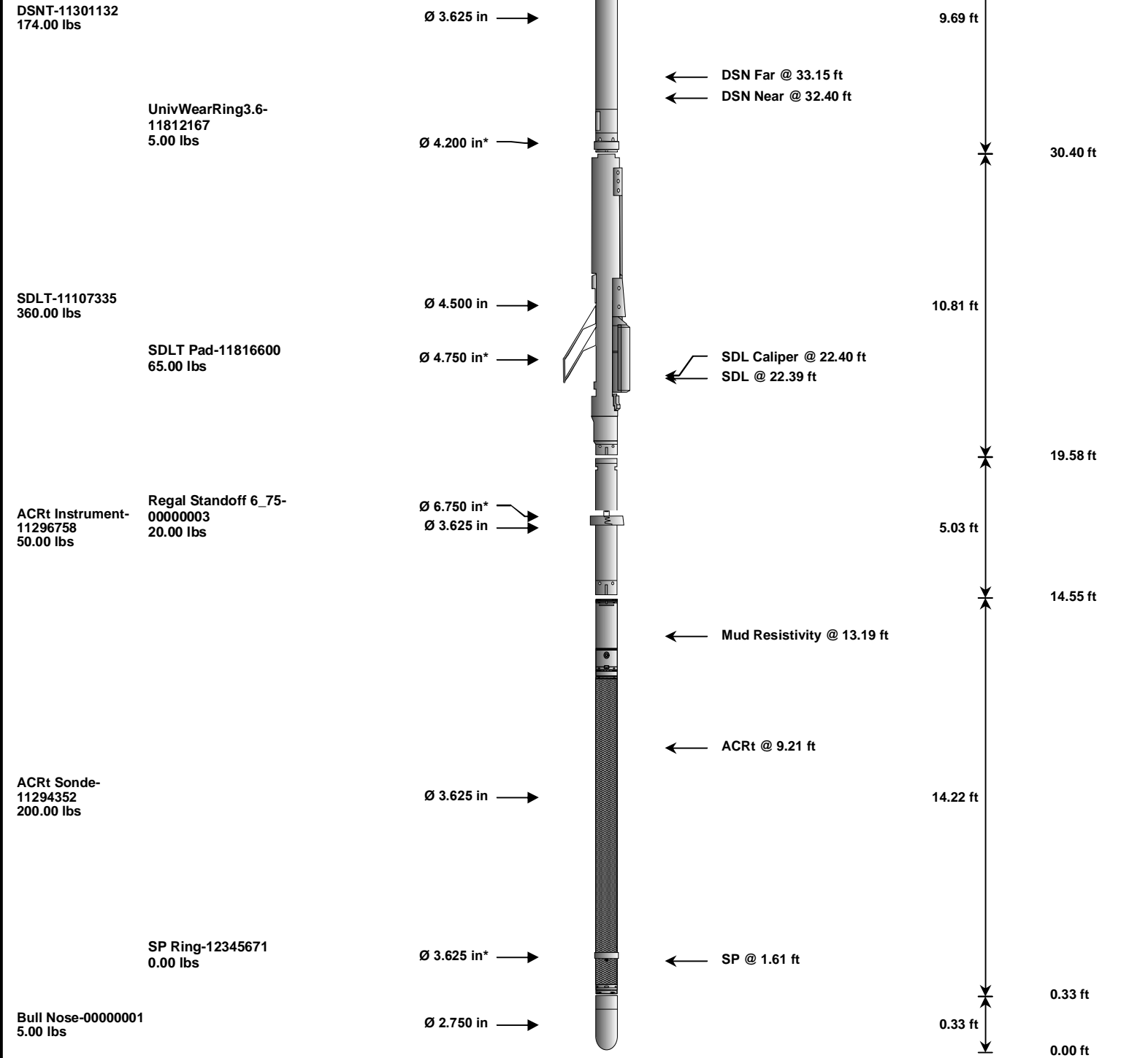
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Date: 27-Nov-13 03:49:55

HALLIBURTON

TOOL STRING DIAGRAM REPORT





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	11816600	65.00	2.55	* 21.79	60.00
ACRt	Array Compensated True Resistivity Instrument Section	11296758	50.00	5.03	14.55	300.00
RSOF	Regal Standoff 6.75in	00000003	20.00	0.52	* 17.13	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		1,184.00	54.85
		* Not included in Total Length and Length Accumulation.	
Data: STALEY_25-7\0001 TRIPLE BLACK_SLICK\001 27-Nov-13 03:24 Dn @0.0f		Date: 27-Nov-13 03:48:08	

COMPANY	BAYSWATER EXPLORATION & PRODUCTION		
WELL	STALEY 25-7		
FIELD	WATTENBERG		
COUNTY	WELD	STATE	CO
HALLIBURTON		DUAL SPACED NEUTRON SPECTRAL DENSITY ARRAY COMPENSATED TRUE RESISTIVITY	