

HALLIBURTON

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

COMPANY		BAYHORSE PETROLEUM, LLC	
WELL		TRES HOMBRES 1-22	
FIELD/BLOCK		LEFT HAND	
COUNTY		KIOWA	
STATE		CO	
Permanent Datum		GL	
Log measured from		KB	
Drilling measured from		KB	
Date		22-Mar-15	
Run No.		ONE	
Depth - Driller		4497.00 ft	
Depth - Logger		4497.0 ft	
Bottom - Logged Interval		4497.0 ft	
Top - Logged Interval		75.0 ft	
Casing - Driller		8.625 in @ 436.0 ft	
Casing - Logger		436.0 ft	
Bit Size		7.875 in @	
Type Fluid in Hole		Water Based Mud	
Density		9.2 ppg	
Viscosity		7.6 cP	
PH		9.50 pH	
Source of Sample		MUD TANK	
Rm @ Meas. Temperature		0.898 ohmm @ 68.60 degF	
Rmf @ Meas. Temperature		1.45 ohmm @ 67.00 degF	
Rmc @ Meas. Temperature		1.450 ohmm @ 67.10 degF	
Source Rmf		MEASURED	
Rm @ BHT		0.49 ohmm @ 131.0 degF	
Time Since Circulation		4.0 hr	
Time on Bottom		22-Mar-15 11:02:20.000	
Max. Rec. Temperature		131.0 degF @ 4497.0 ft	
Equipment		11871076 GJ CO	
Recorded By		P. DIMPLE	
Witnessed By		J. KLIENSEN	

COMPANY		BAYHORSE PETROLEUM, LLC	
WELL		TRES HOMBRES 1-22	
FIELD/BLOCK		LEFT HAND	
COUNTY		KIOWA	
STATE		CO	
API No.		05061068940000	
Location		SURFACE HOLE LOCATION: 1738' FNL & 987' FWL	
Sect. 22		Twp. 18S	
Rge. 47W		Elev. 4129.0 ft	
Other Services:		RWCH BSAT MEL	

Fold here

Service Ticket No.: 902244334				API Serial No.: 05061068940000				PGM Version: WL INSITE R4.6.0 (Build 4)							
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	CENT	N/A					
Rmc @ Meas. Temp.	@			@			I: 11585787								
Source Rmf	Rmc						S: 11585797								
Rm @ BHT	@			@		ONE	MICROLOG	MICRO	PAD	N/A					
Rmf @ BHT	@			@			10951300								
Rmc @ BHT	@			@											
EQUIPMENT DATA															
GAMMA				ACOUSTIC				DENSITY				NEUTRON			
Run No.	ONE			Run No.	ONE			Run No.	ONE			Run No.	ONE		
Serial No.	11958949			Serial No.	10930054			Serial No.	10865876			Serial No.	10993888		
Model No.	GTET			Model No.	BSAT-I			Model No.	SDLT-I			Model No.	DSNT-I		
Diameter	3.625"			No. of Cent.	2			Diameter	4.5"			Diameter	3.625"		
Detector Model No.	GTET			Spacing	0.5'			Log Type	GAMMA-GAMMA			Log Type	NEU-THERM		
Type	SCINT							Source Type	Cs137			Source Type	Am241Be		
Length	8"			LSA [Y/N]	N			Serial No.	5153GW			Serial No.	DSN-388		
Distance to Source	9'			FWDA [Y/N]	N			Strength	1.5 Ci			Strength	15 Ci		
LOGGING DATA															

GENERAL			GAMMA		ACOUSTIC			DENSITY			NEUTRON			
Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix
No.	From	To	ft/min	L	R	L	R		L	R		L	R	
ONE	4497	436	REC	0 API	200 API	30 %	-10 %	47.5 us/ft	30 %	-10 %	2.71 g/cc	30 %	-10 %	LIME
ONE	436	75	REC											
DIRECTIONAL INFORMATION														
Maximum Deviation @								KOP @						
Remarks: RUN ONE: RWCH/GTET/DSNT/SDLT/FLEX/BSAT/ACRT/BN														
BORHOLE RUGOSITY, TENSION PULLS, LCM ADDITIVE, AND WASHOUTS MAY EFFECT LOG QUALITY AND REPEATABILITY														
CHLORIDES REPORTED TO BE 1800 ppm														
ANNULAR HOLE VOLUME CALCULATED USING 4.5-INCH CASING.														
YOU CREW TODAY: J. VIGIL, B. CALDWELL, A. KOBE RIG: H2 1														
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES, GRAND JUNCTION, CO (970) 523-3600														
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

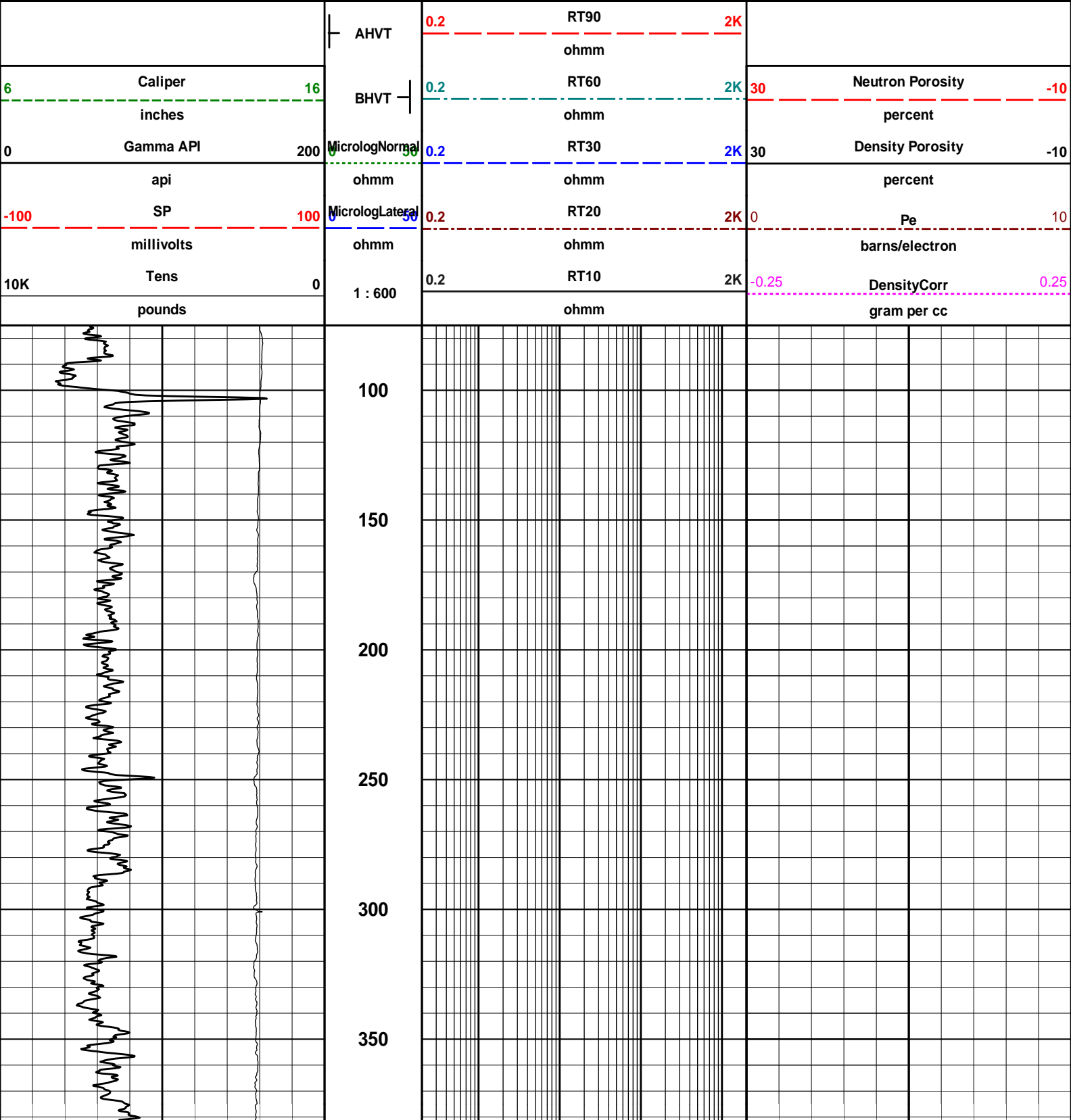
Depth (ft)	Tool Name	Mnemonic	Description	Value	Units
TOP					
	SHARED	BS	Bit Size	7.875	in
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	MDBS	Mud Base	Water	
	SHARED	MDWT	Borehole Fluid Weight	9.200	ppg
	SHARED	WAGT	Weighting Agent	Barite	
	SHARED	BSAL	Borehole salinity	2400.00	ppm
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%
	SHARED	RMUD	Mud Resistivity	0.898	ohmm
	SHARED	TRM	Temperature of Mud	68.6	degF
	SHARED	CSD	Logging Interval is Cased?	No	
	SHARED	ICOD	AHV Casing OD	4.500	in
	SHARED	ST	Surface Temperature	60.0	degF
	SHARED	TD	Total Well Depth	4497.00	ft
	SHARED	BHT	Bottom Hole Temperature	150.0	degF
	SHARED	SVTM	Navigation and Survey Master Tool	NONE	
	SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET	
	SHARED	TEMM	Temperature Master Tool	NONE	
	Rwa / CrossPlot	XPOK	Process Crossplot?	Yes	
	Rwa / CrossPlot	FCHO	Select Source of F	Automatic	
	Rwa / CrossPlot	AFAC	Archie A factor	0.6200	

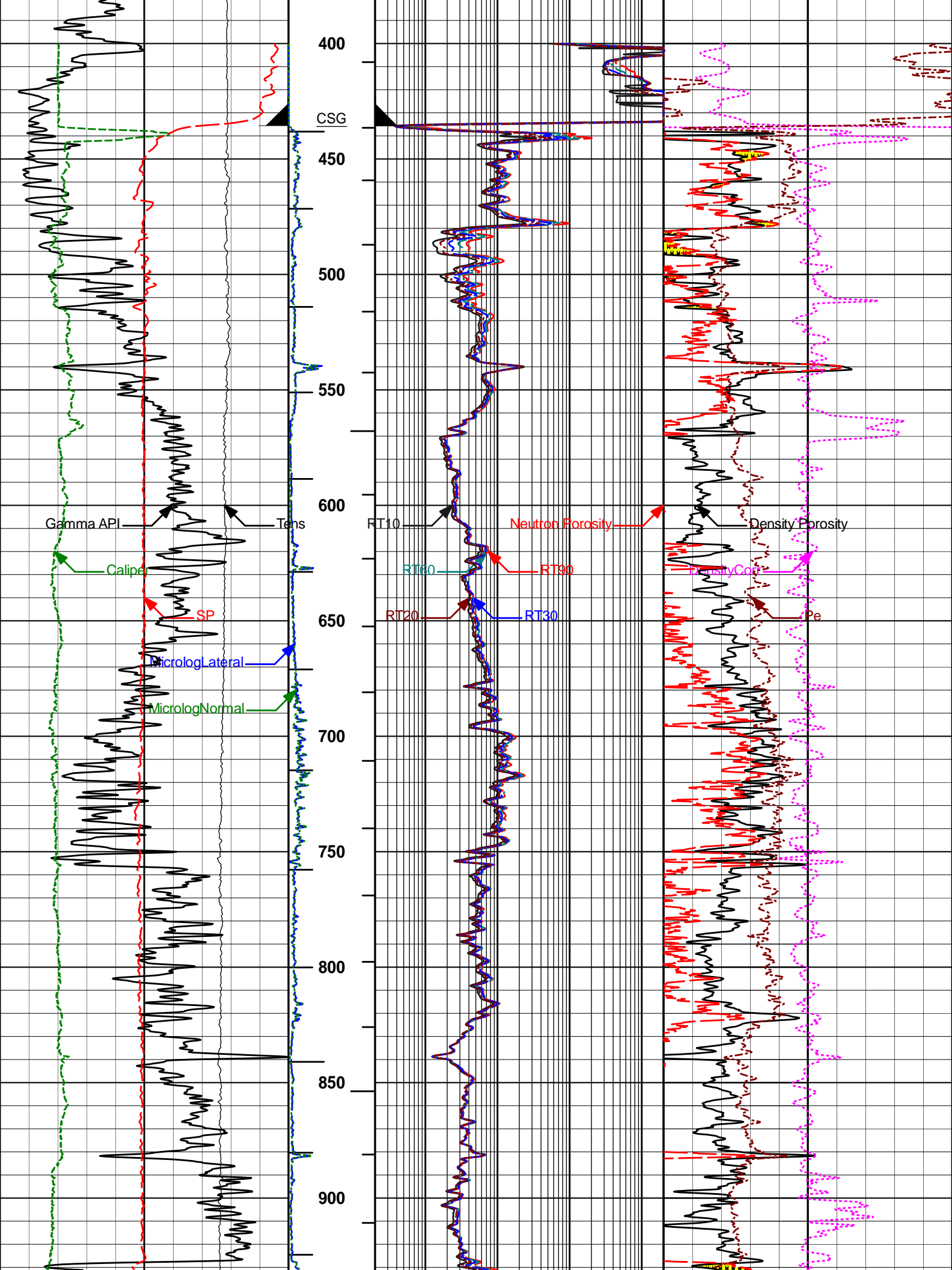
Rwa / CrossPlot	MFAC	Archie M factor	2.1500	
Rwa / CrossPlot	RMFR	Rmf Reference	0.10	ohmm
Rwa / CrossPlot	TMFR	Rmf Ref Temp	75.00	degF
Rwa / CrossPlot	RWA	Resistivity of Formation Water	0.05	ohmm
Rwa / CrossPlot	ADP	Use Air Porosity to calculate CrossplotPhi	No	
Rwa / CrossPlot	BHSM	Borehole Size Source Tool	SDLT	
GTET	GROK	Process Gamma Ray?	Yes	
GTET	GRSO	Gamma Tool Standoff	0.000	in
GTET	GEOK	Process Gamma Ray EVR?	No	
GTET	TPOS	Tool Position for Gamma Ray Tools.	Eccentered	
GTET	BHSM	Borehole Size Source Tool	SDLT	
DSNT	DNOK	Process DSN?	Yes	
DSNT	DEOK	Process DSN EVR?	No	
DSNT	NLIT	Neutron Lithology	Limestone	
DSNT	DNSO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.250	in
DSNT	DNTP	Temperature Correction Type	None	
DSNT	DPRS	DSN Pressure Correction Type	None	
DSNT	SHCO	View More Correction Options	No	
DSNT	UTVD	Use TVD for Gradient Corrections?	No	
DSNT	LHWT	Logging Horizontal Water Tank?	No	
DSNT	BHSM	Borehole Size Source Tool	SDLT	
SDLT	CLOK	Process Caliper Outputs?	Yes	
SDLT Pad	DNOK	Process Density?	Yes	
SDLT Pad	DNOK	Process Density EVR?	No	
SDLT Pad	CB	Logging Calibration Blocks?	No	
SDLT Pad	SPVT	SDLT Pad Temperature Valid?	Yes	
SDLT Pad	DTWN	Disable temperature warning	No	
SDLT Pad	DMA	Formation Density Matrix	2.710	g/cc
SDLT Pad	DFL	Formation Density Fluid	1.000	g/cc
SDLT Pad	BHSM	Borehole Size Source Tool	SDLT	
Microlog Pad	MLOK	Process MicroLog Outputs?	Yes	
BSAT	MBOK	Compute BCAS Results?	Yes	
BSAT	FLLO	Frequency Filter Low Pass Value?	5000	Hz
BSAT	FLHI	Frequency Filter High Pass Value?	27000	Hz
BSAT	DTFL	Delta -T Fluid	189.00	uspf
BSAT	DTMT	Delta -T Matrix Type	Limestone 47.5	
BSAT	DTSH	Delta -T Shale	100.00	uspf
BSAT	SPEQ	Acoustic Porosity Equation	Wylie	
ACRt Sonde	RTOK	Process ACRt?	Yes	
ACRt Sonde	MNSO	Minimum Tool Standoff	1.50	in
ACRt Sonde	TCS1	Temperature Correction Source	FP Lwr & FP Upr	
ACRt Sonde	TPOS	Tool Position	Centered	
ACRt Sonde	RMOP	Rmud Source	Mud Cell	
ACRt Sonde	RMIN	Minimum Resistivity for MAP	0.20	ohmm
ACRt Sonde	RMIN	Maximum Resistivity for MAP	200.00	ohmm
ACRt Sonde	THQY	Threshold Quality	0.50	
ACRt Sonde	MRFX	Fixed mud resistivity	2000	ohmm
ACRt Sonde	BHSM	Borehole Size Source Tool	SDLT	
ACRt Sonde	MBFL	Apply Corkscrew Effect?	No	

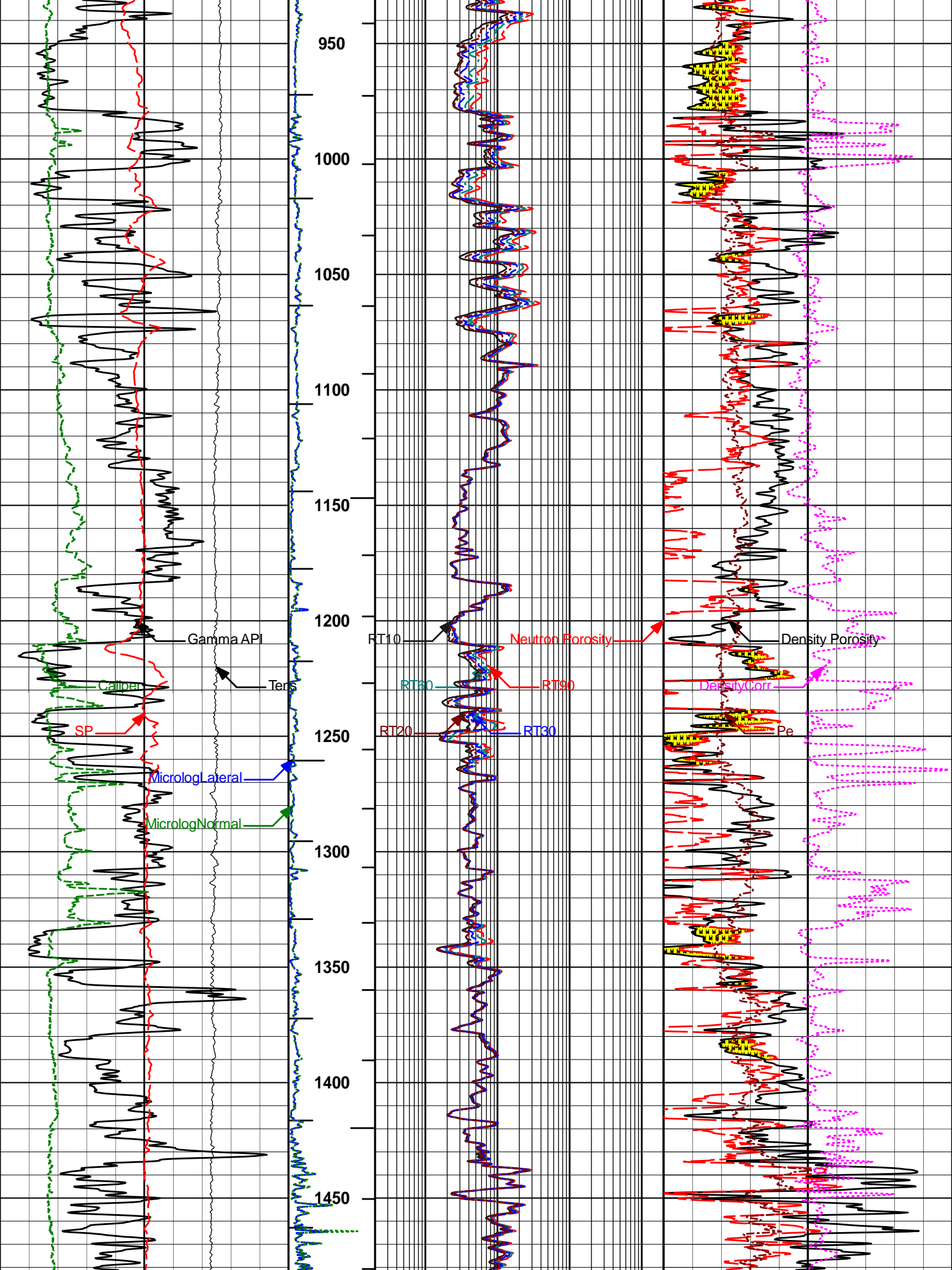
BOTTOM

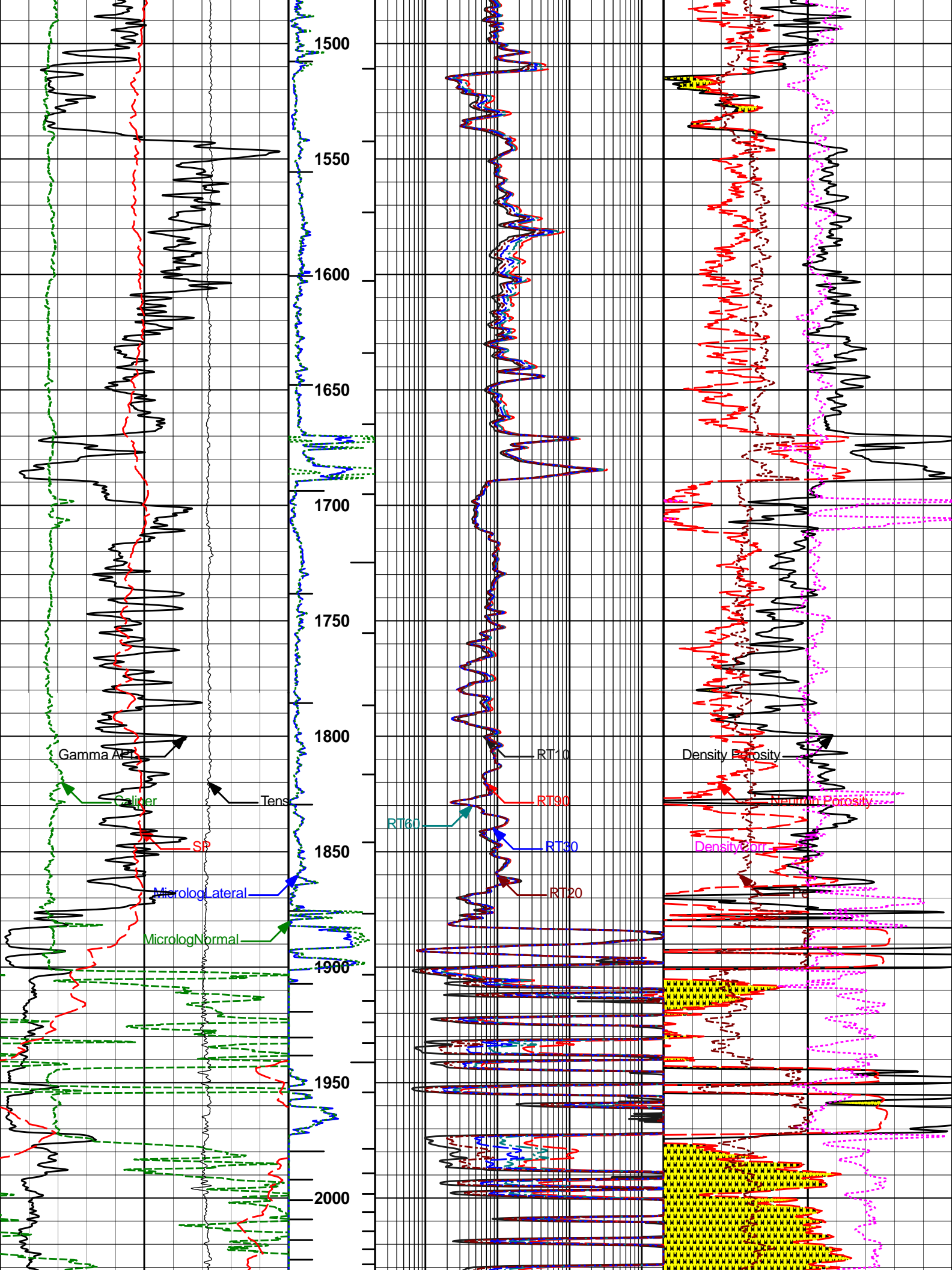
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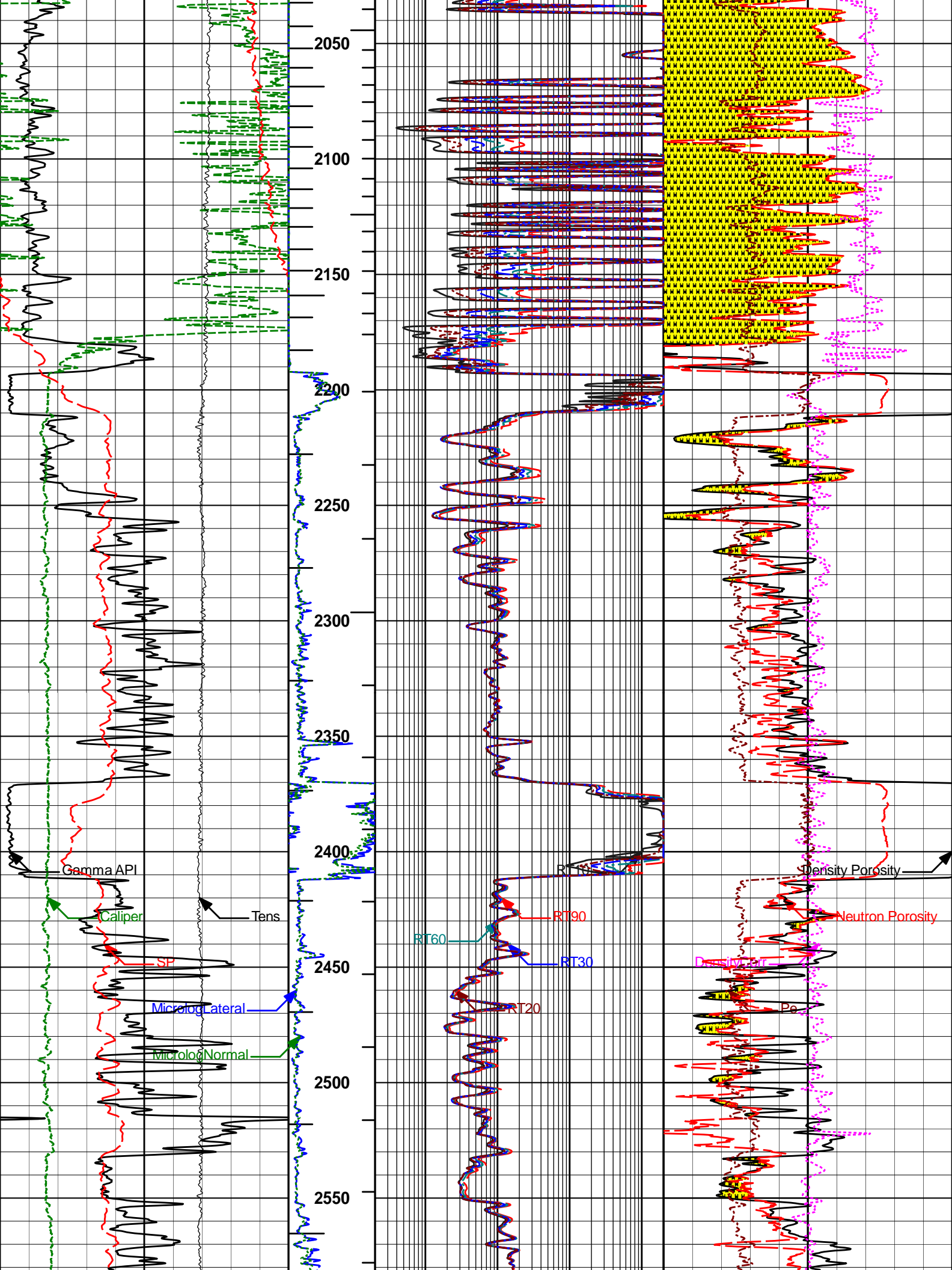
LIMESTONE MATRIX

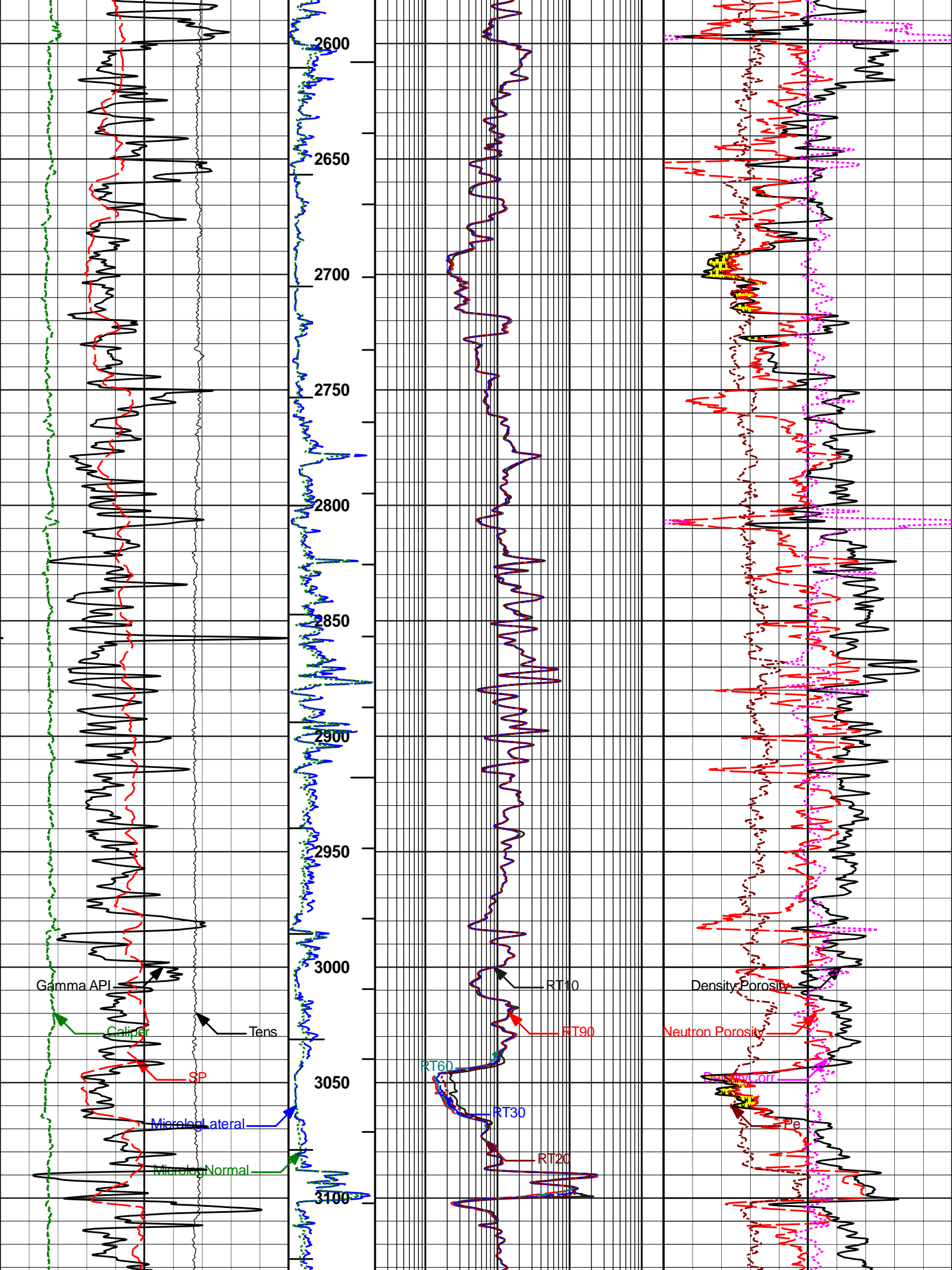


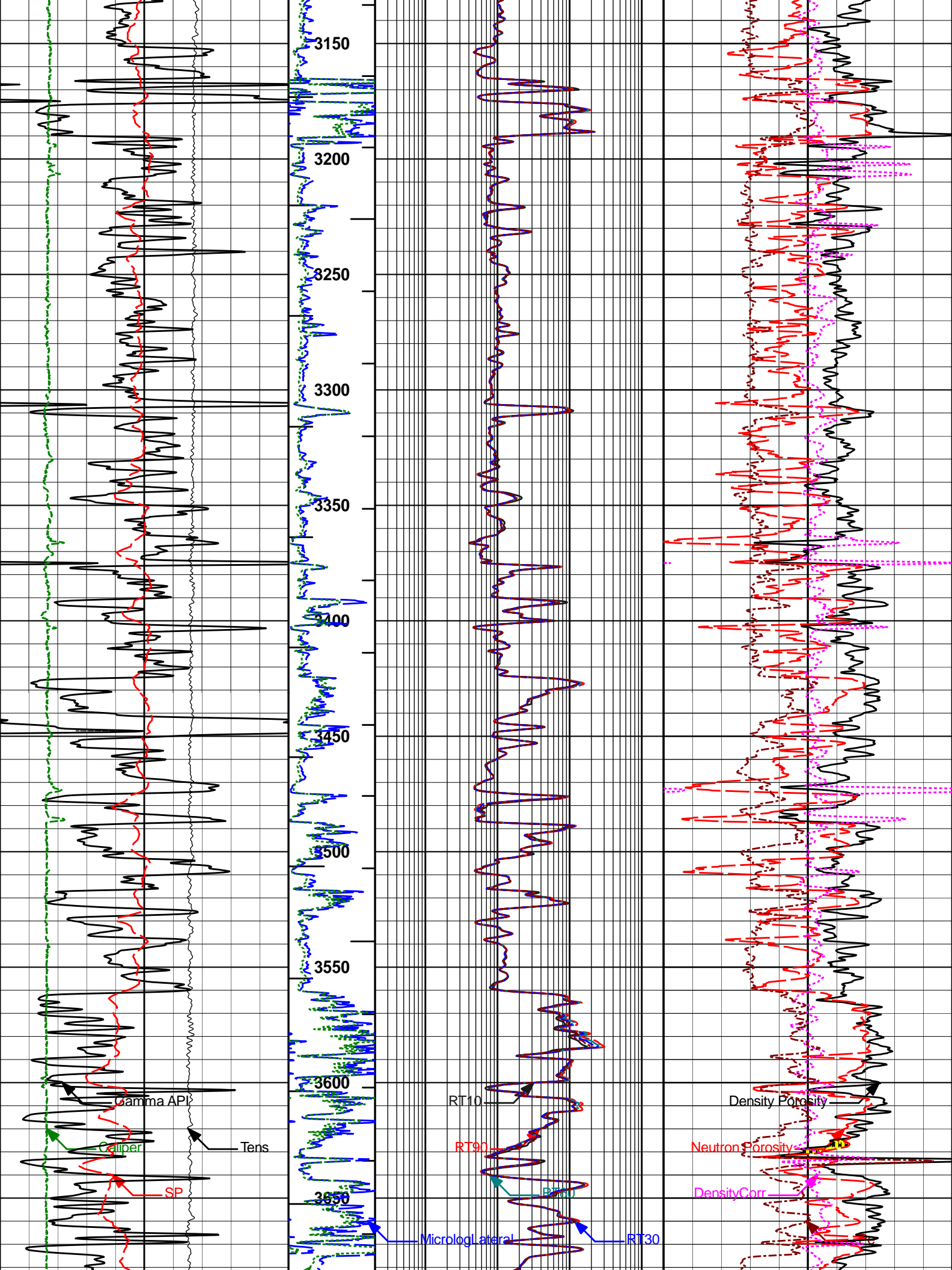


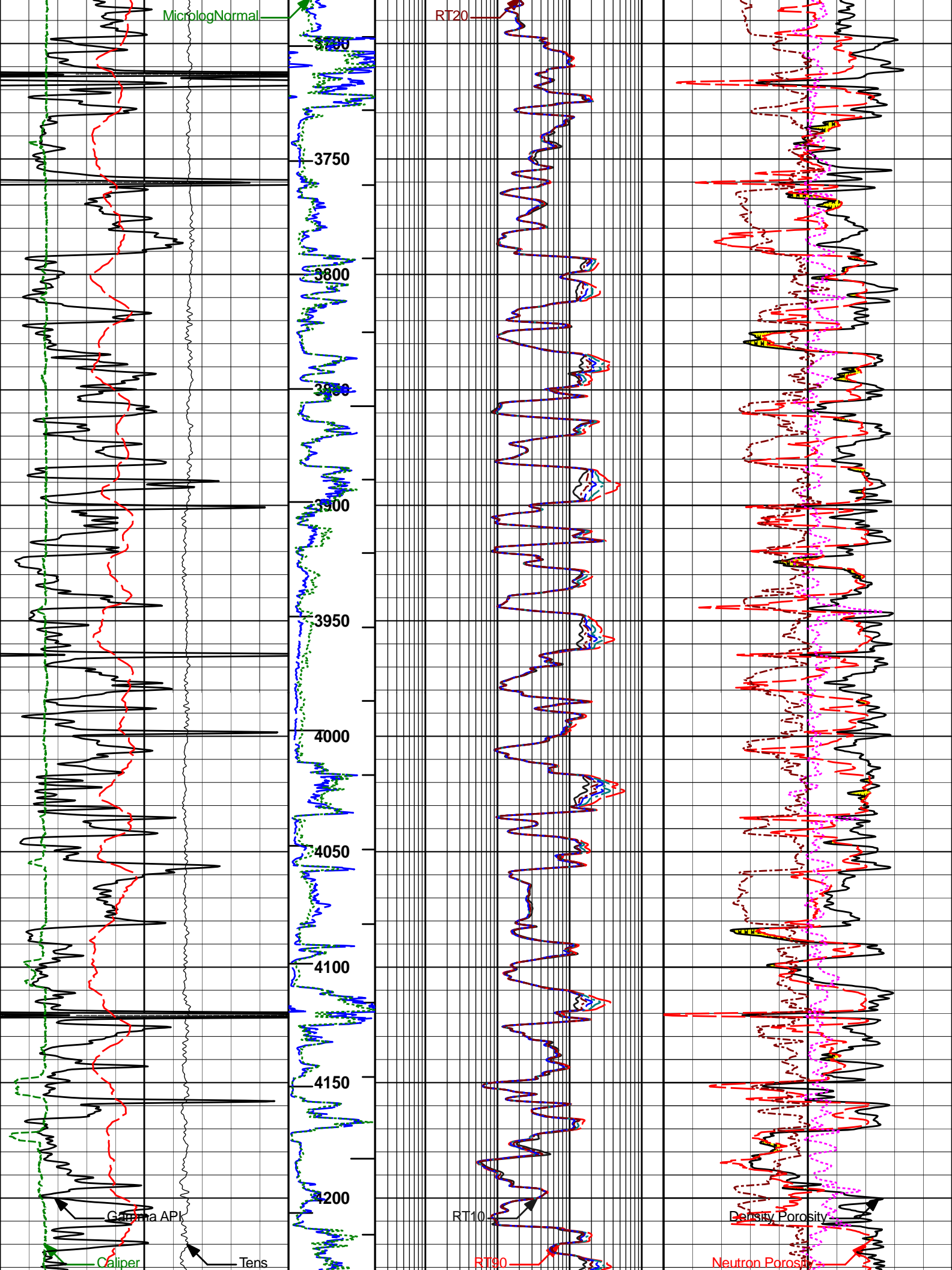


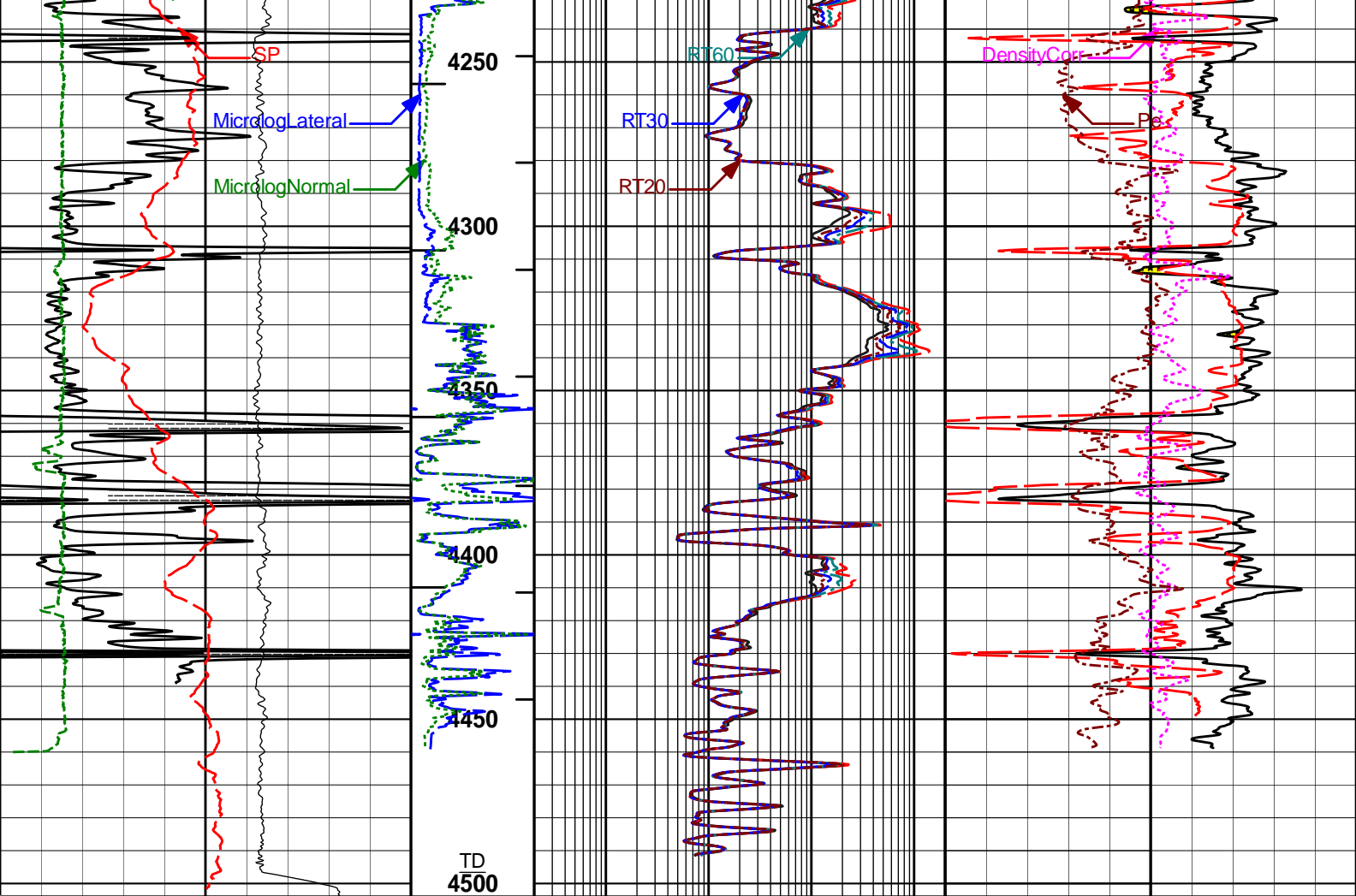












10K	Tens	0	1 : 600	0.2	RT10	2K	-0.25	DensityCorr	0.25
	pounds				ohmm			gram per cc	
-100	SP	100	MicrologLateral	0.2	RT20	2K	0	Pe	10
	millivolts		ohmm		ohmm			barns/electron	
0	Gamma API	200	MicrologNormal	0.2	RT30	2K	30	Density Porosity	-10
	api		ohmm		ohmm			percent	
6	Caliper	16	BHVT	0.2	RT60	2K	30	Neutron Porosity	-10
	inches				ohmm			percent	
			AHVT	0.2	RT90	2K			
					ohmm				

HALLIBURTON

Plot Time: 22-Mar-15 12:57:35
 Plot Range: 75 ft to 4504 ft
 Data: TRESHOMBRES1_22\Well Based\
 Plot File: \\COMP\MAIN-2"

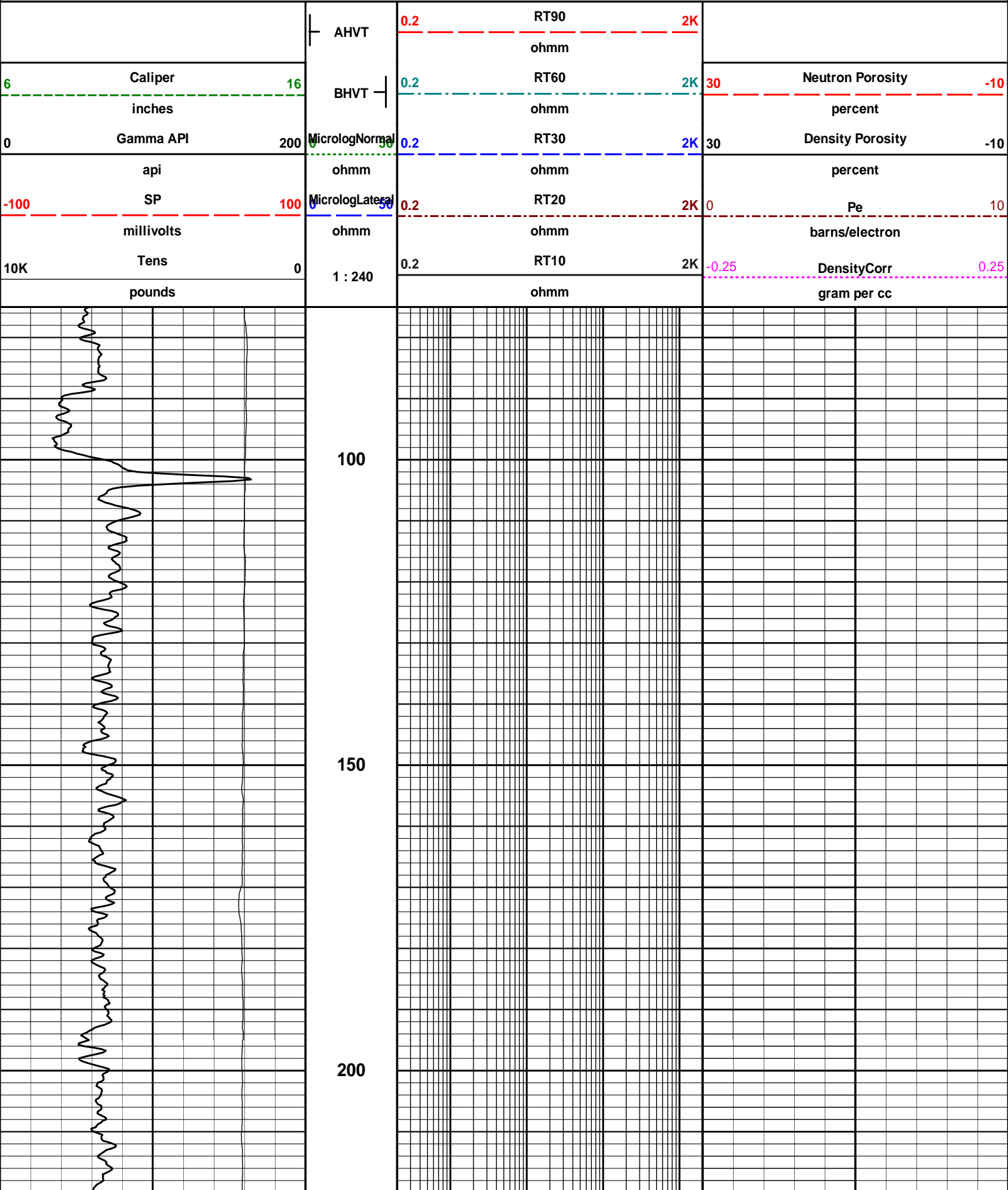
MAIN PASS 2" = 100'
 LIMESTONE MATRIX

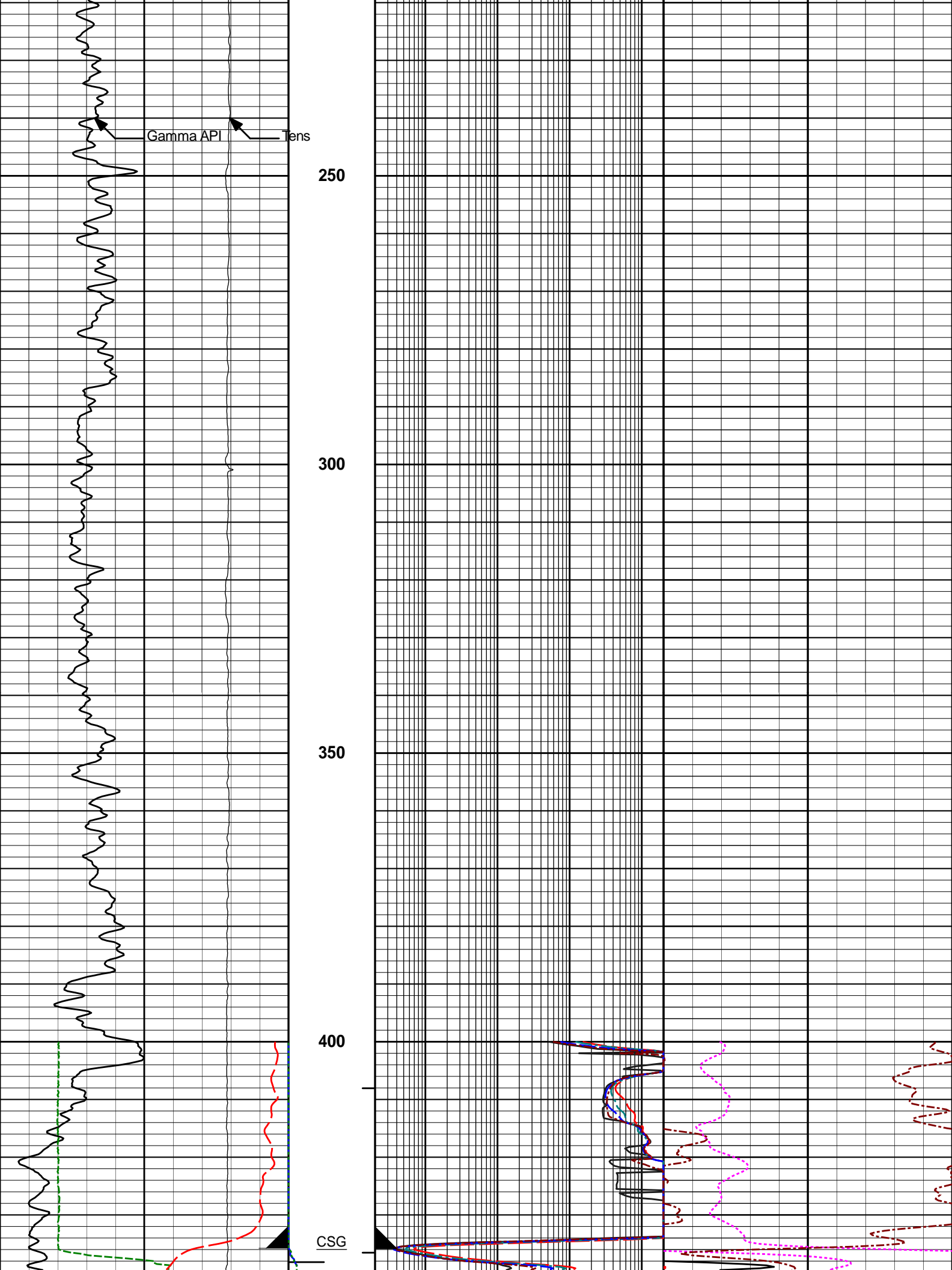
HALLIBURTON

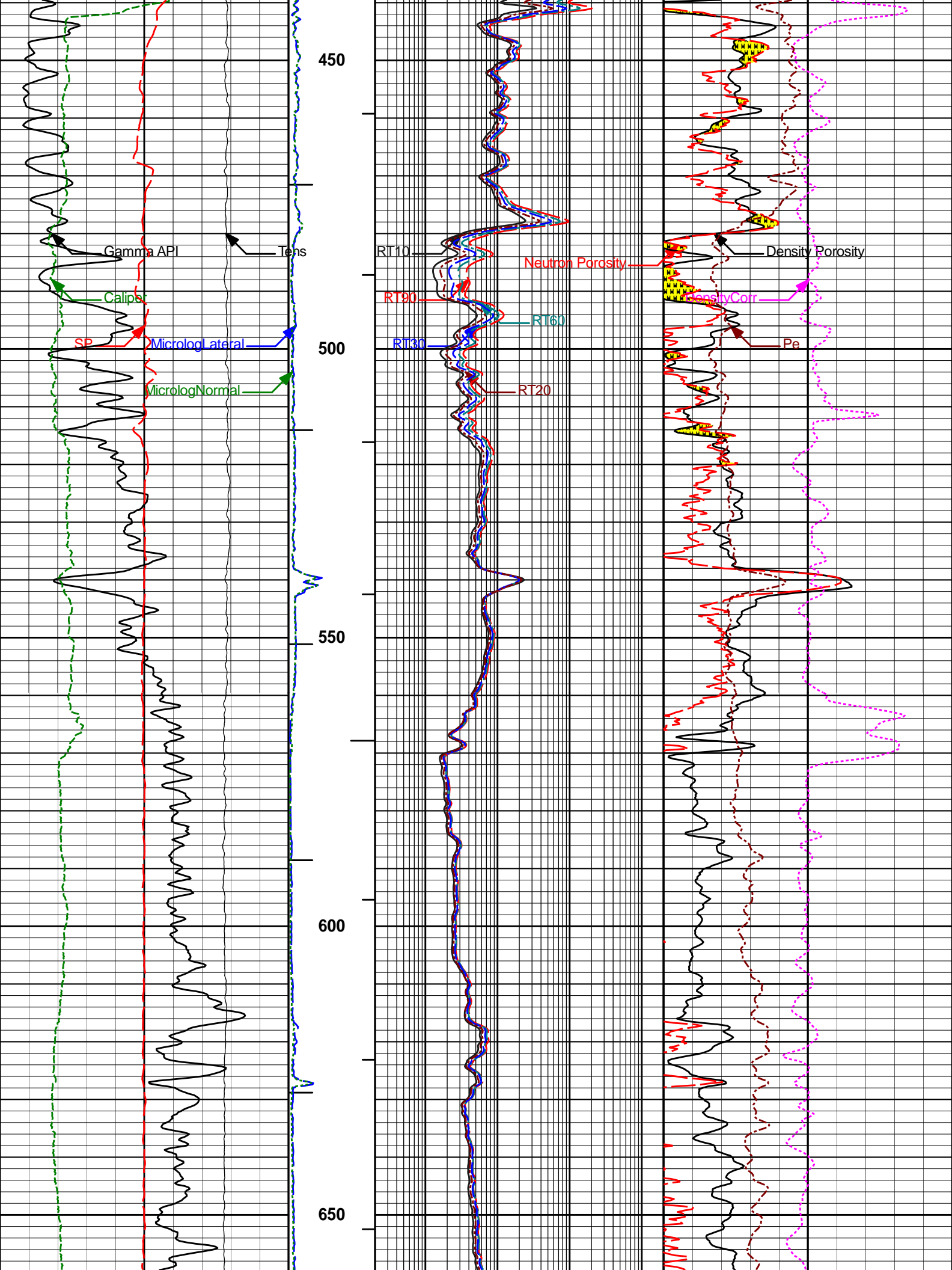
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 Plot Range: 75 ft to 4504 ft
 Data: TRESHOMBRES1_22\Well Based\
 Plot File: \\COMP\MAIN

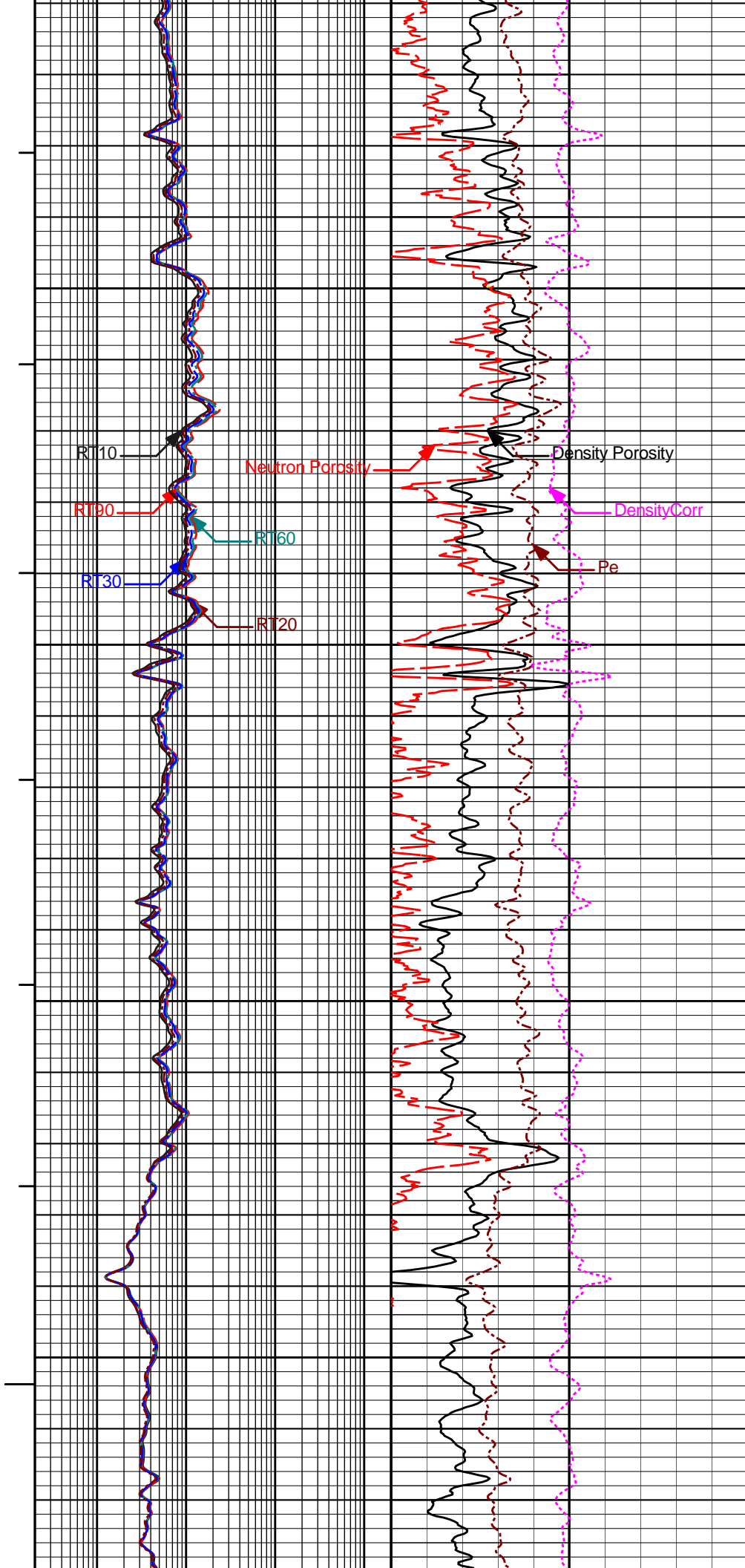
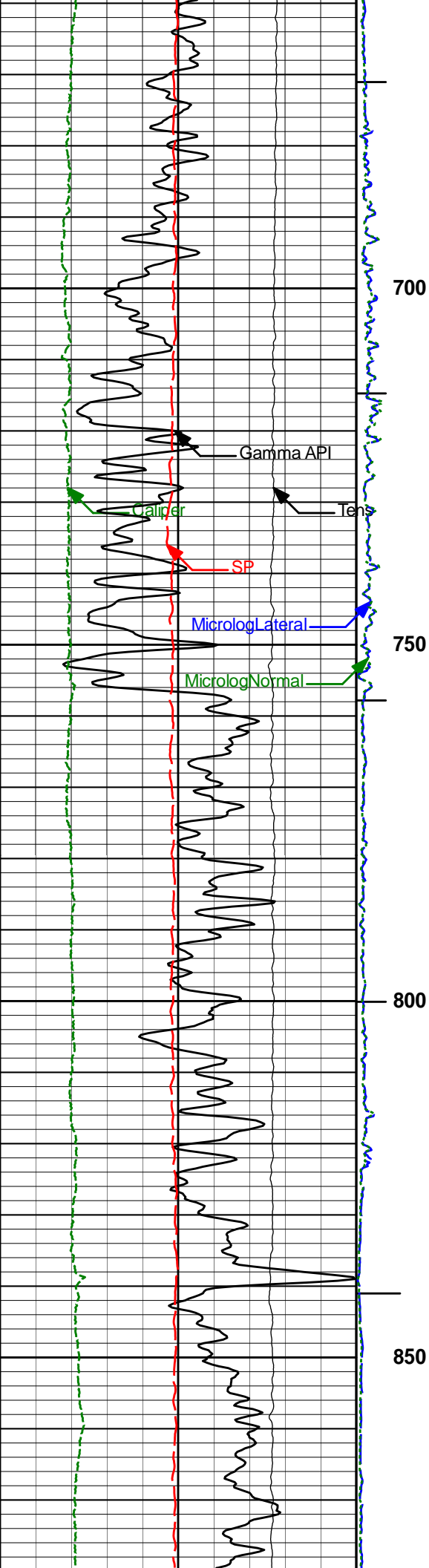
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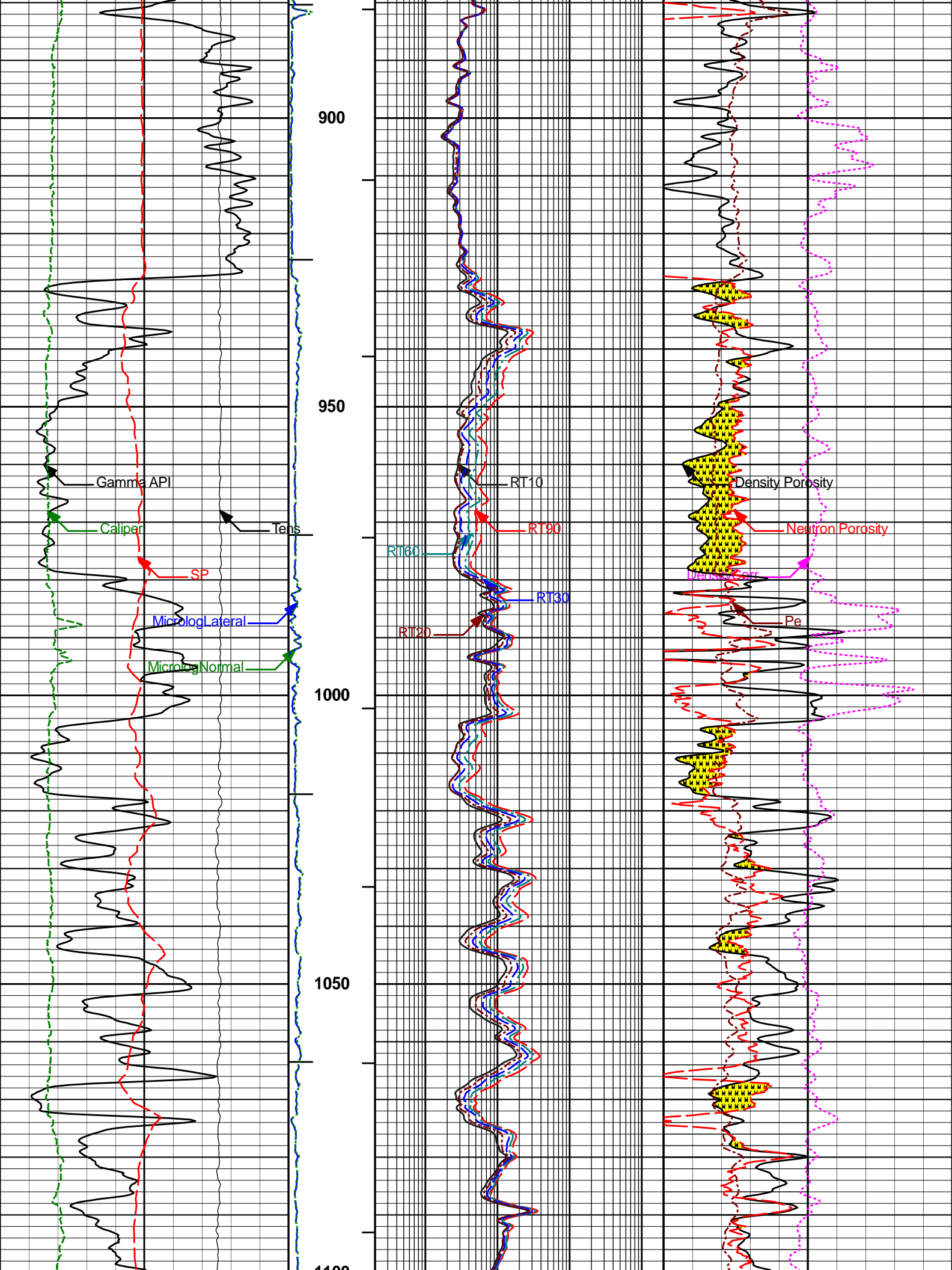
LIMESTONE MATRIX

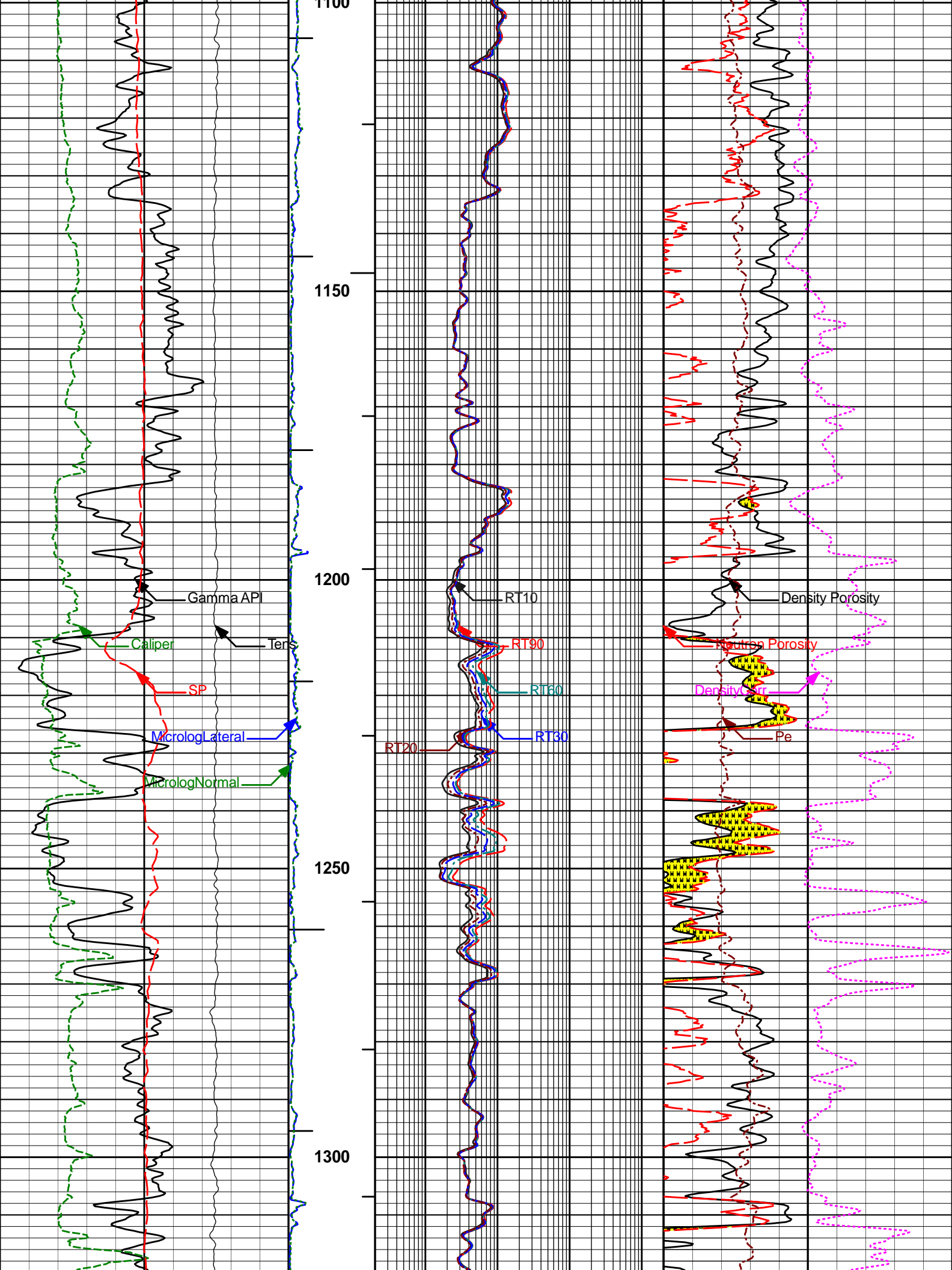


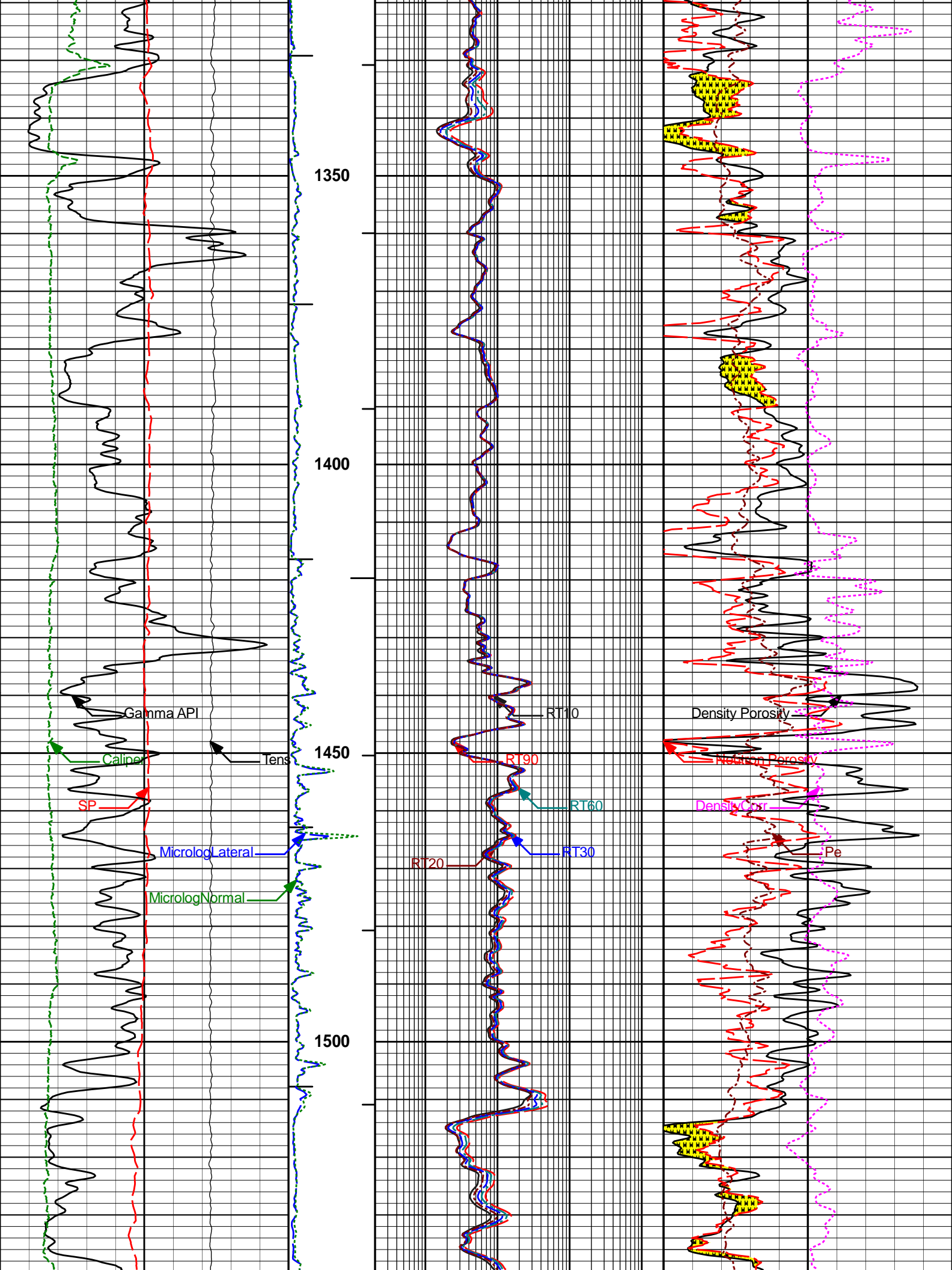


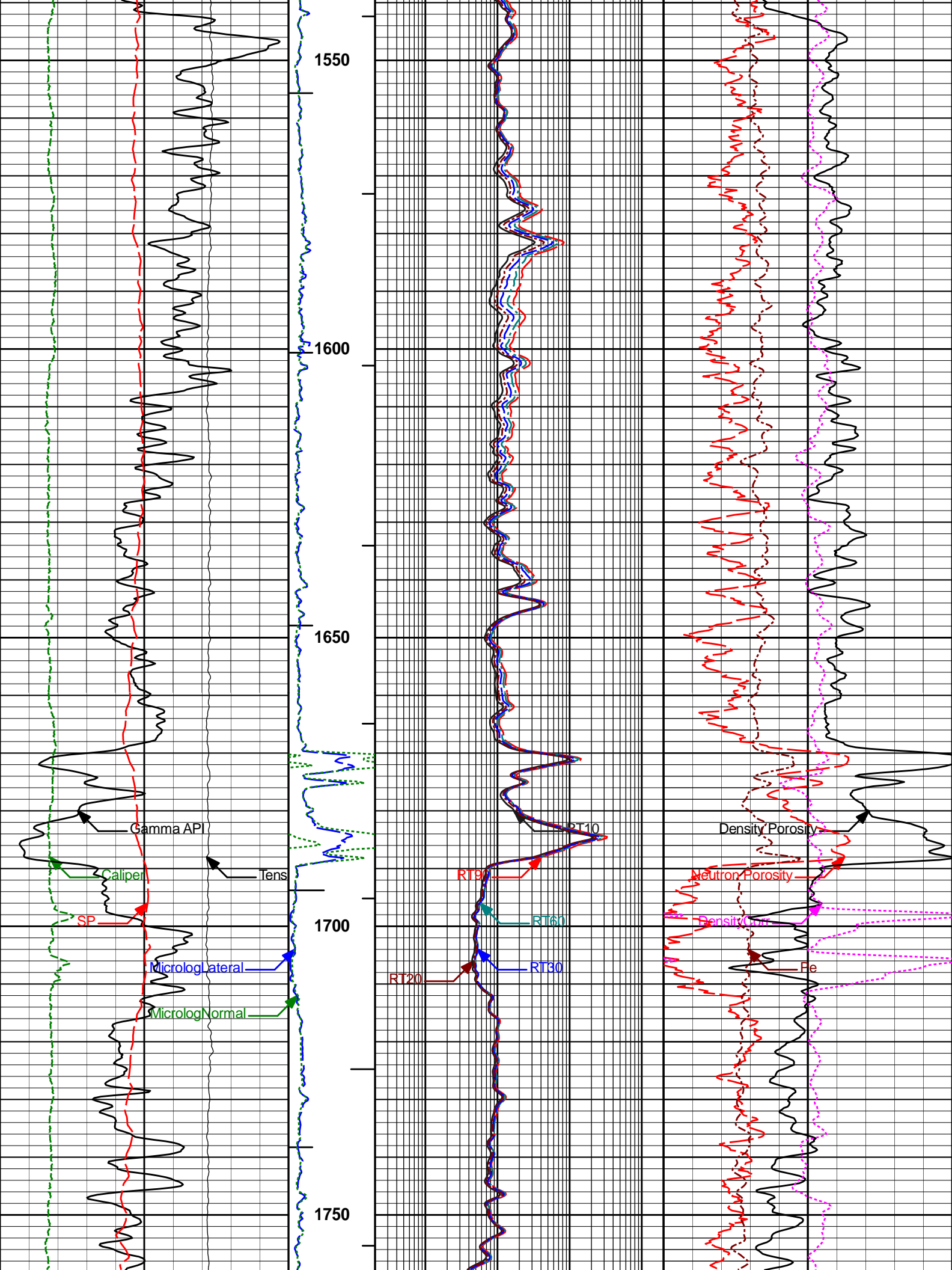


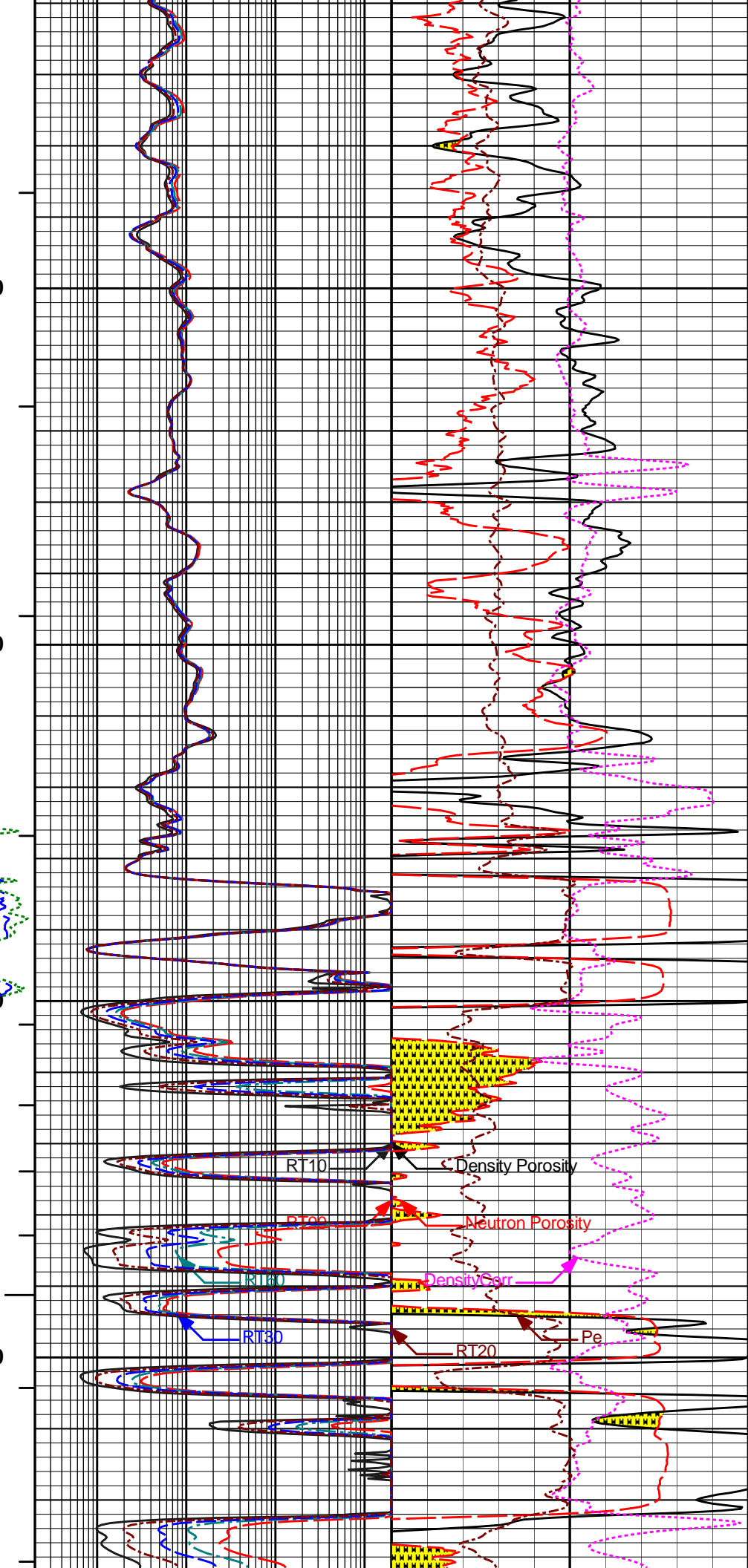
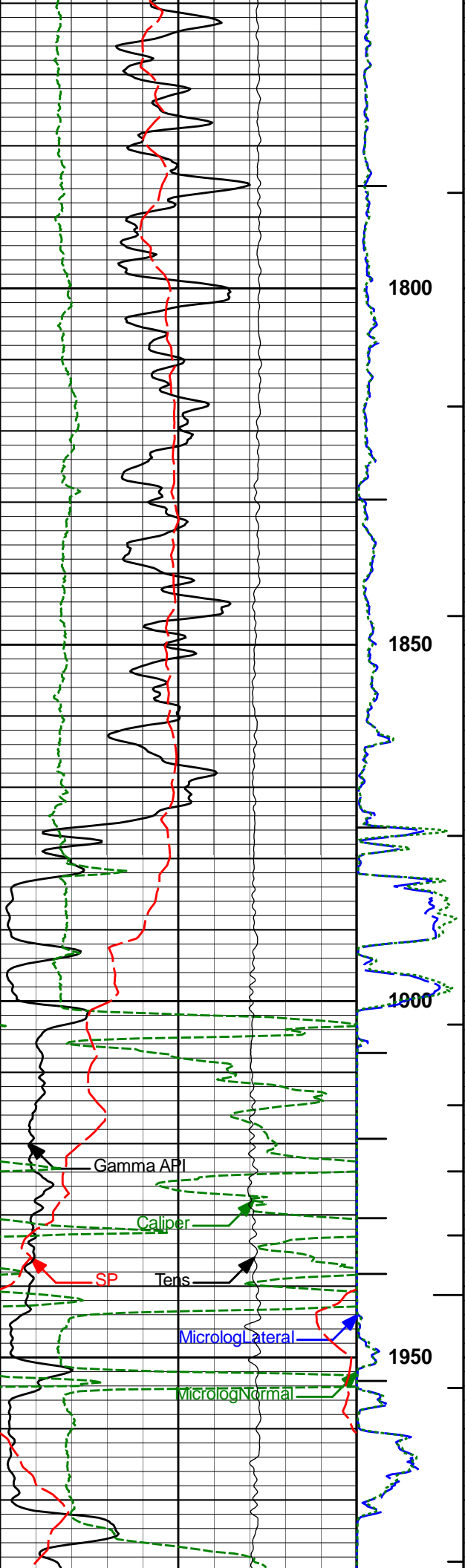


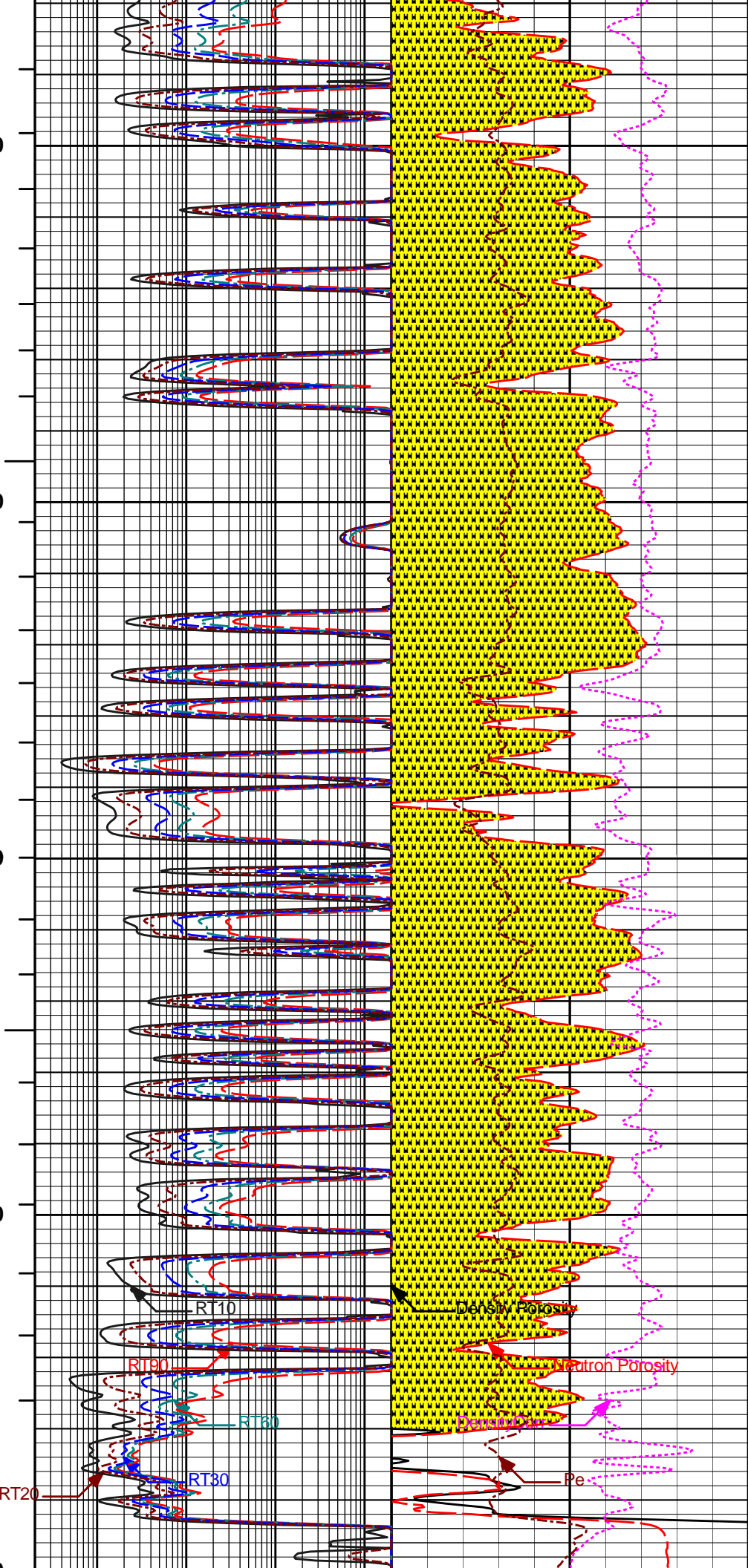
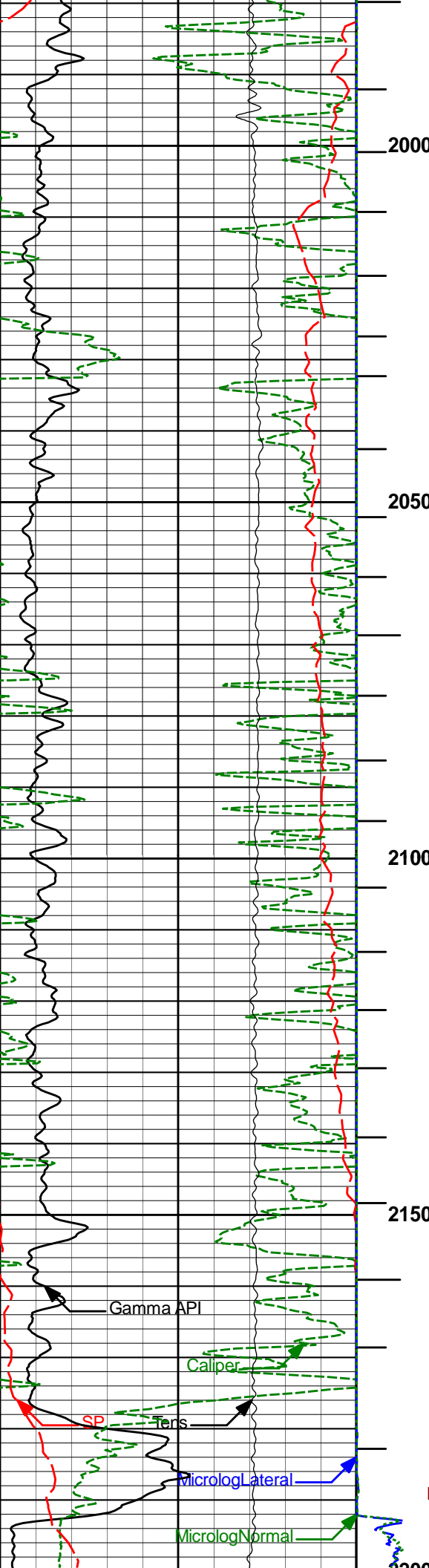


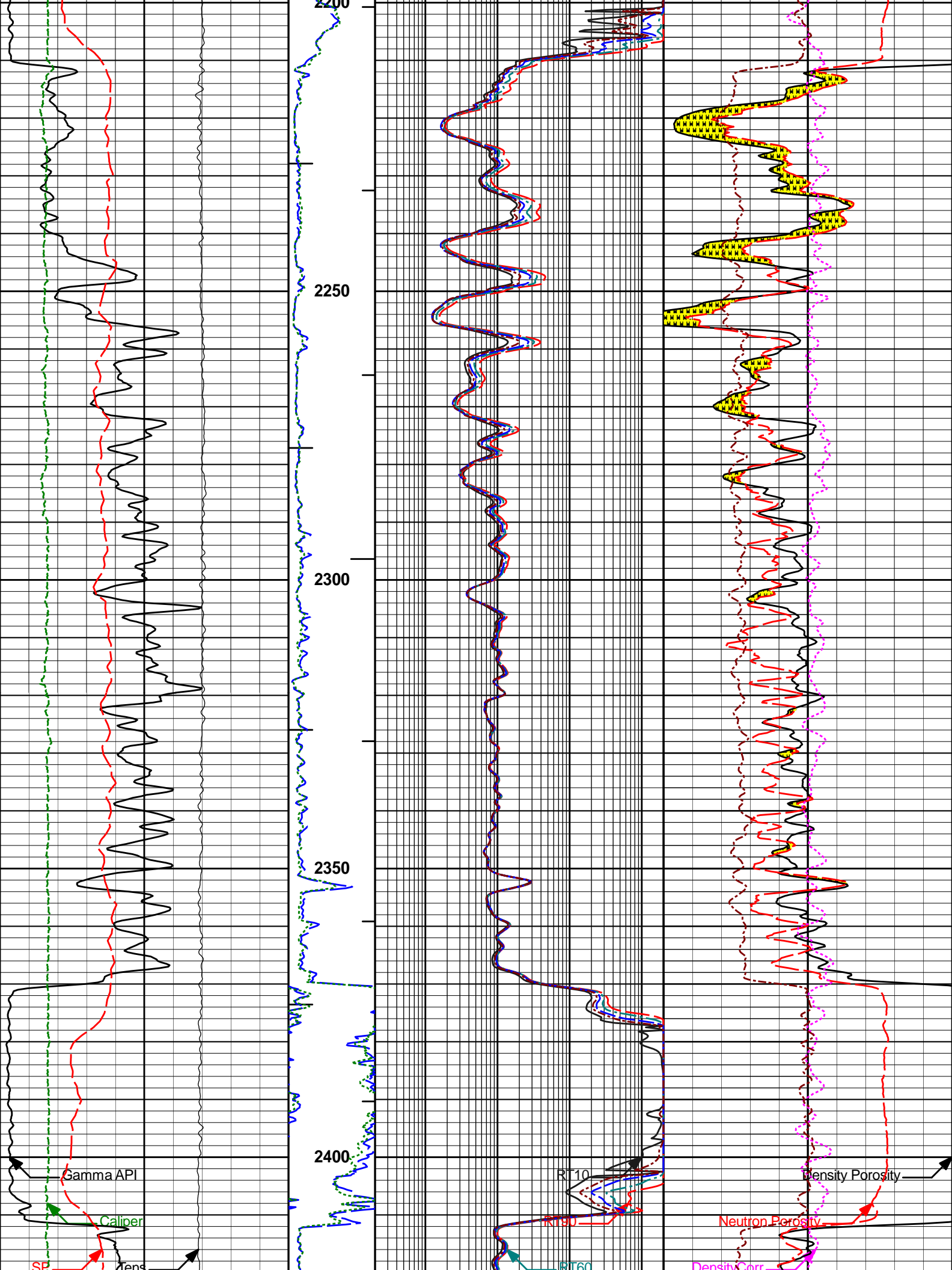


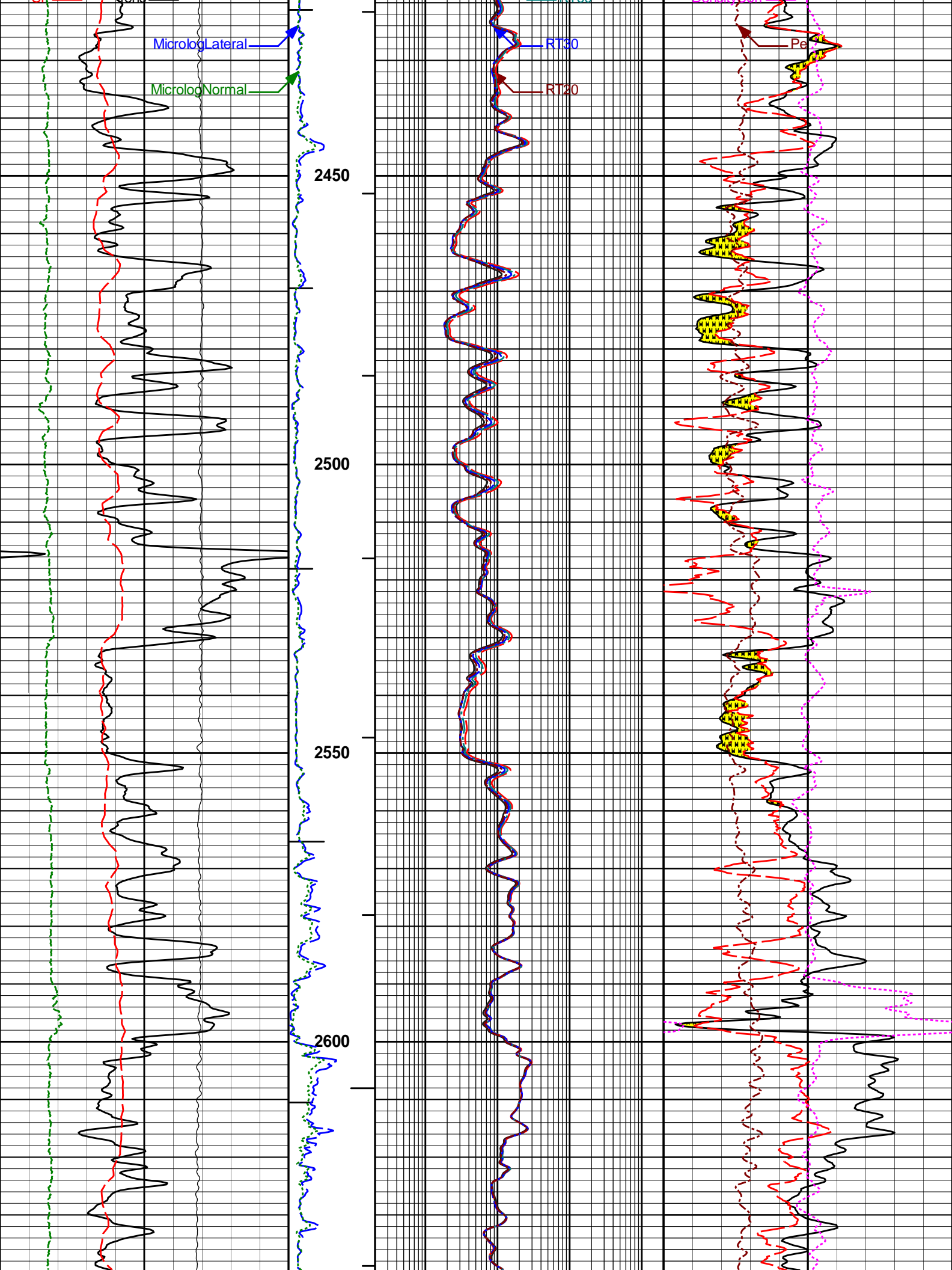


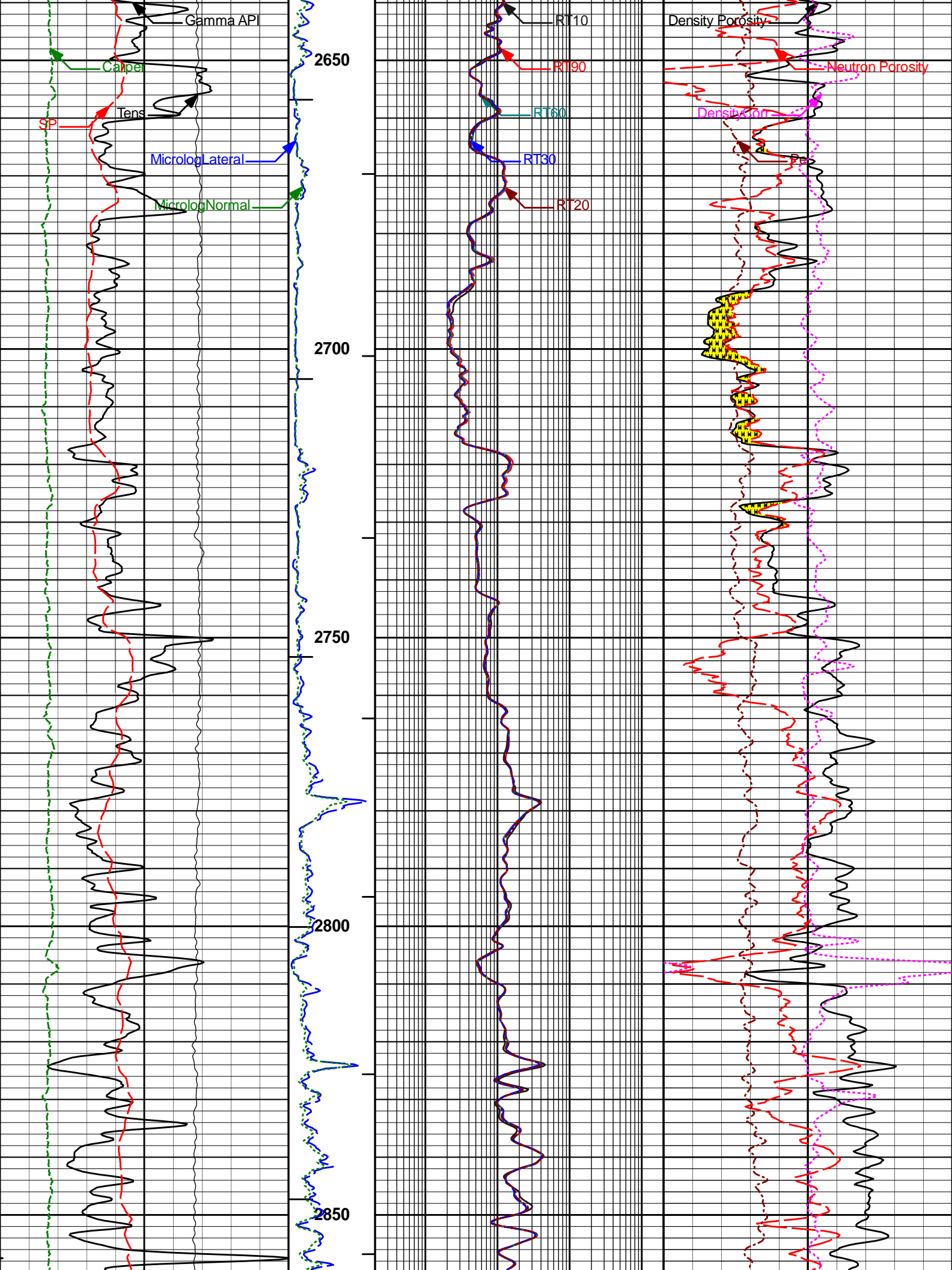


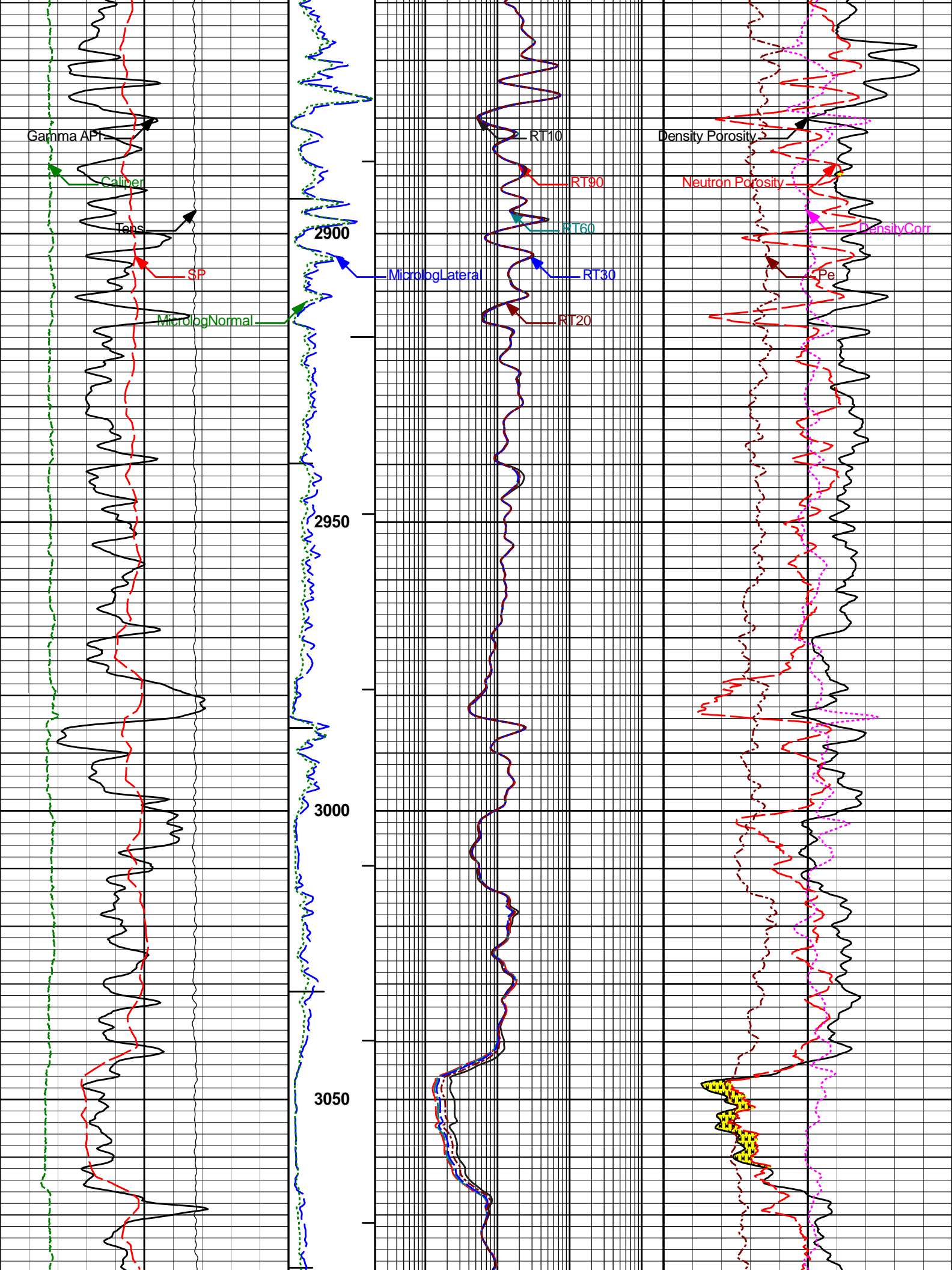


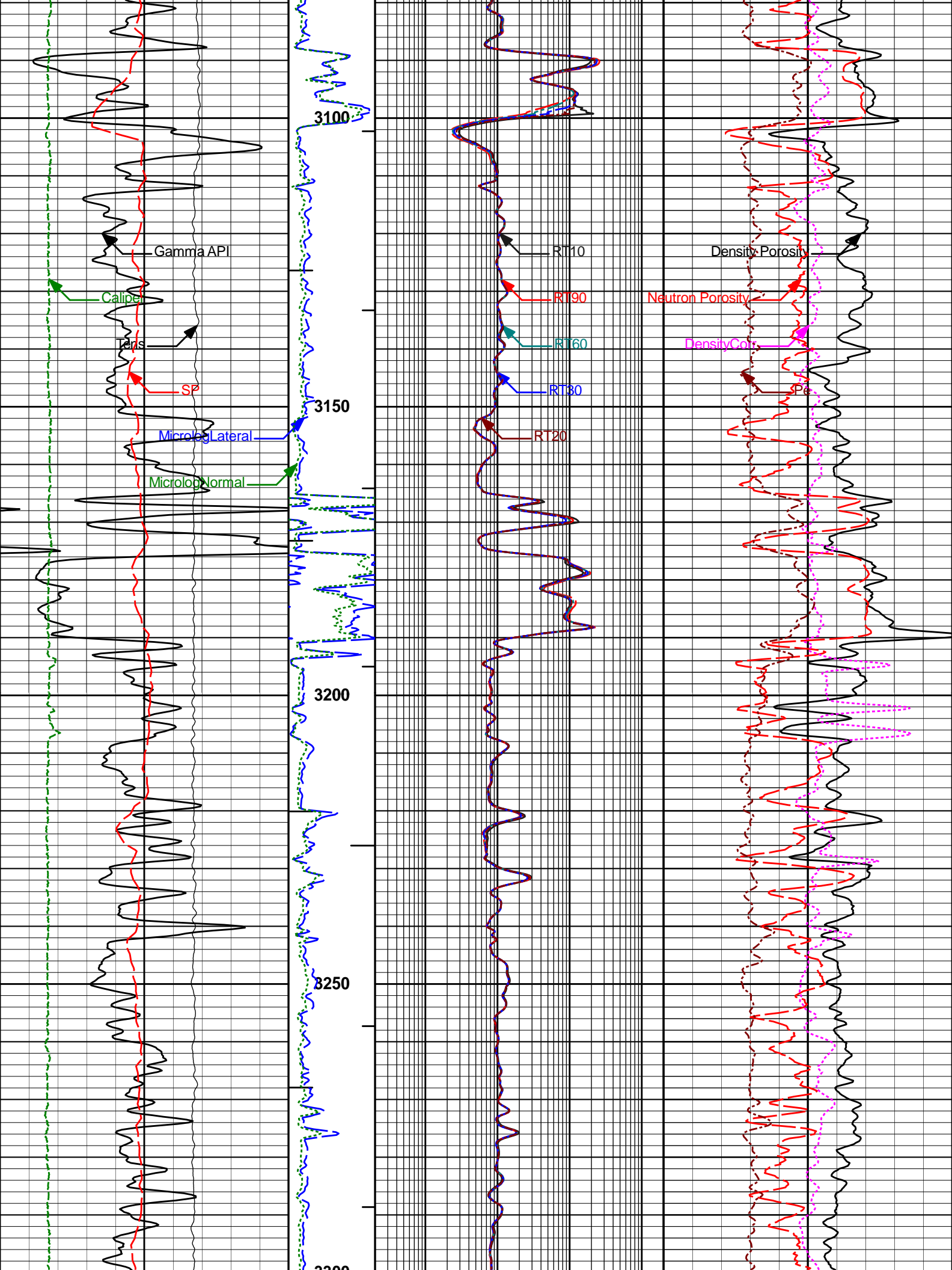


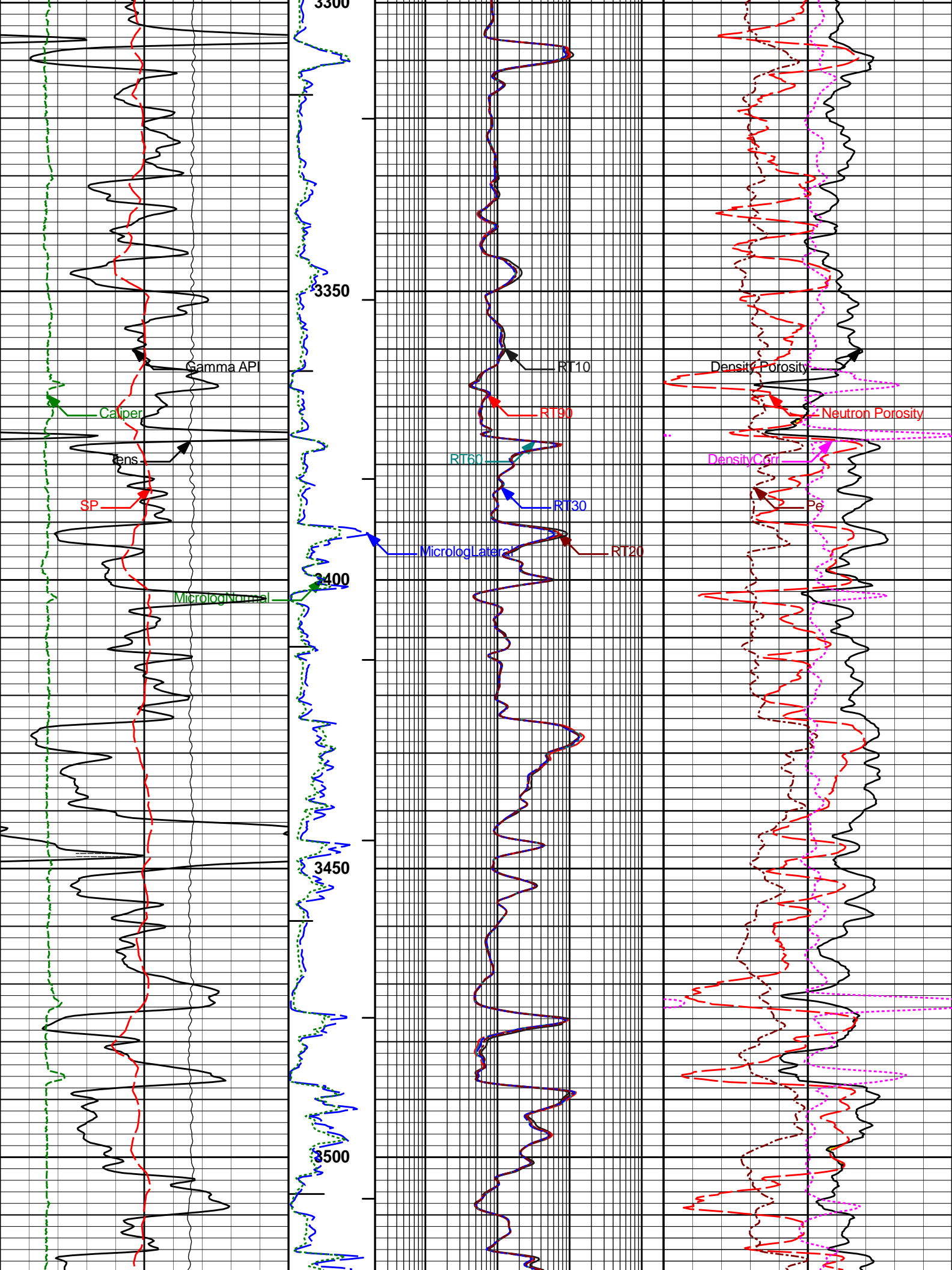


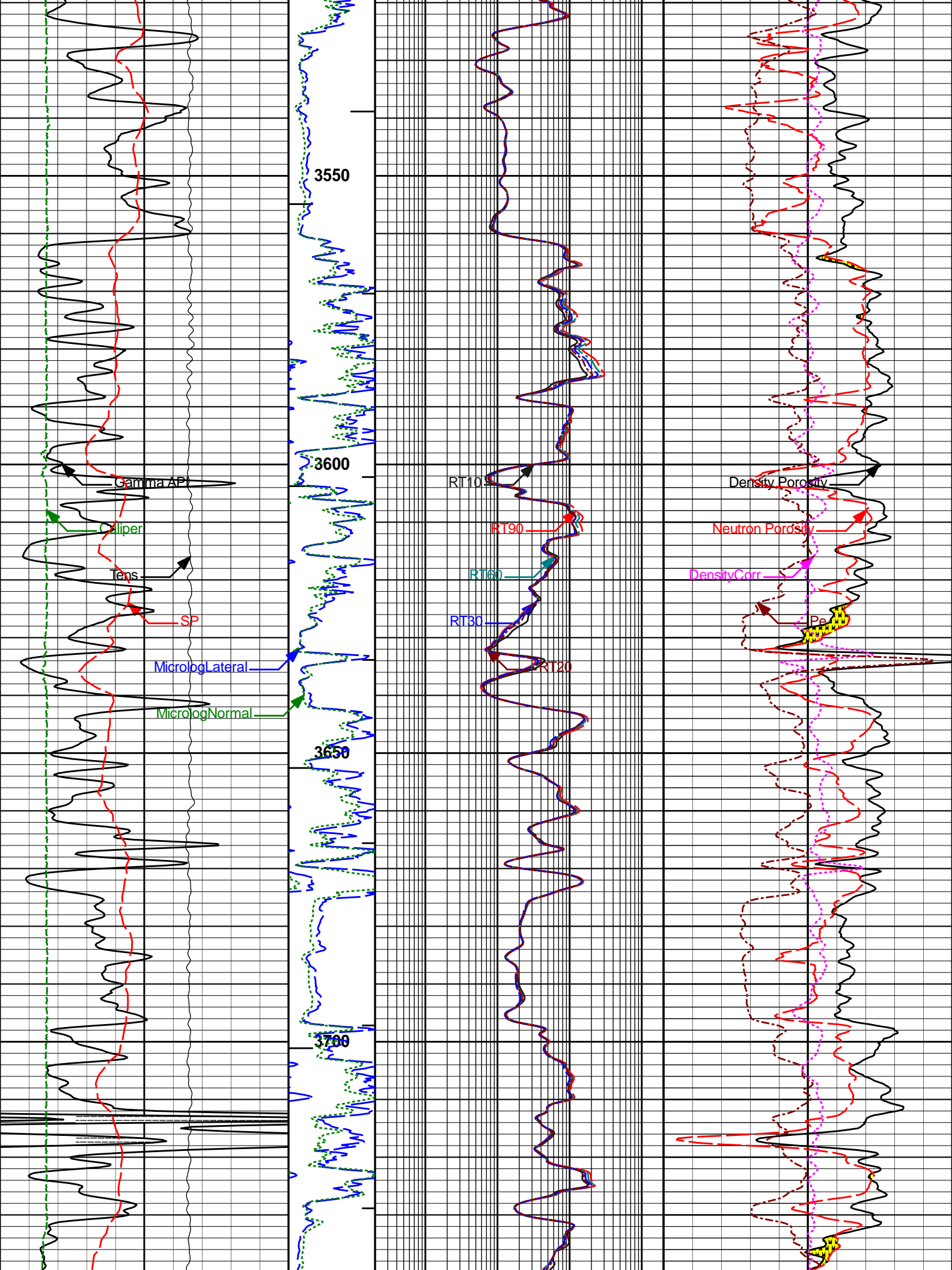


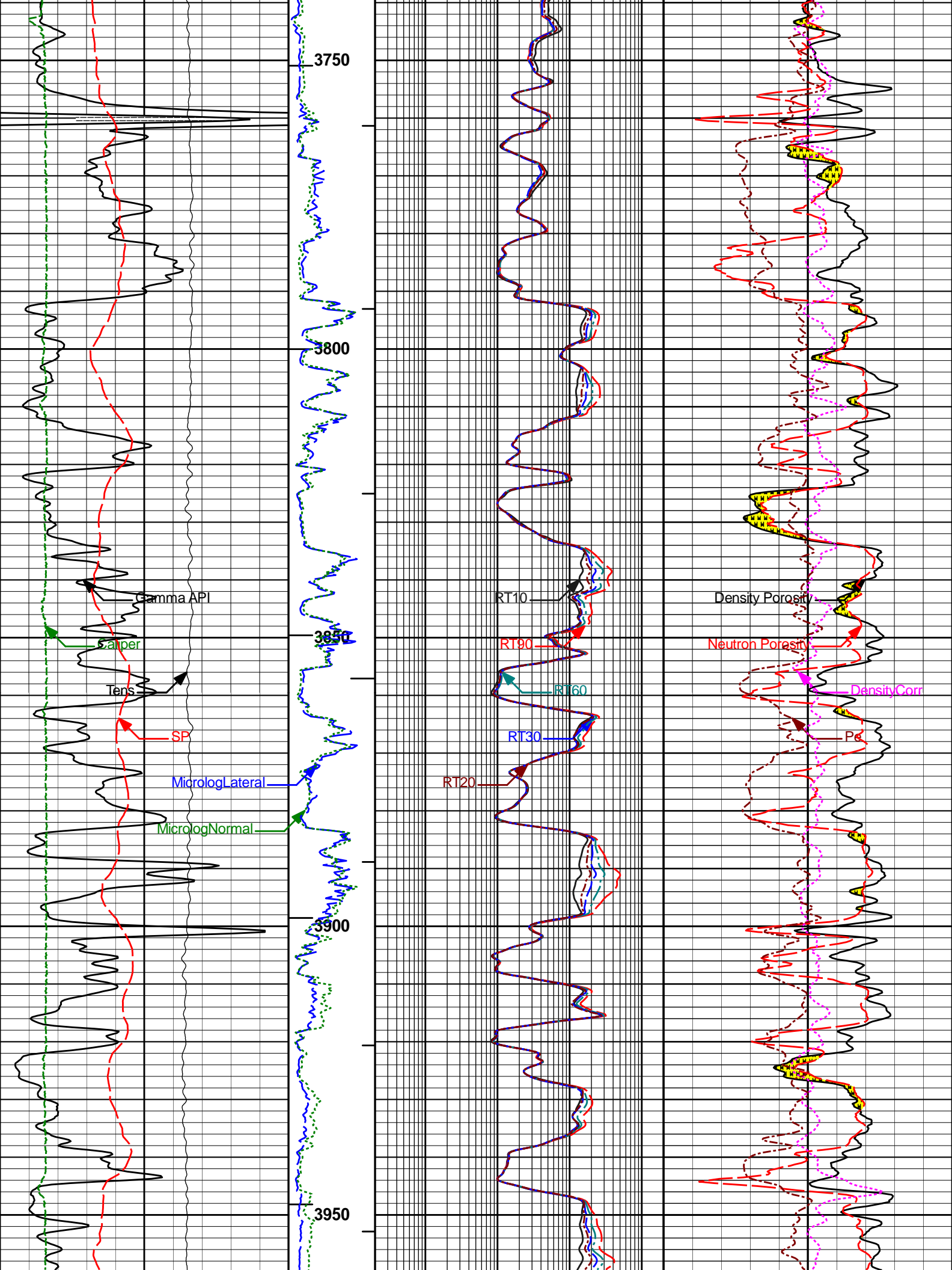


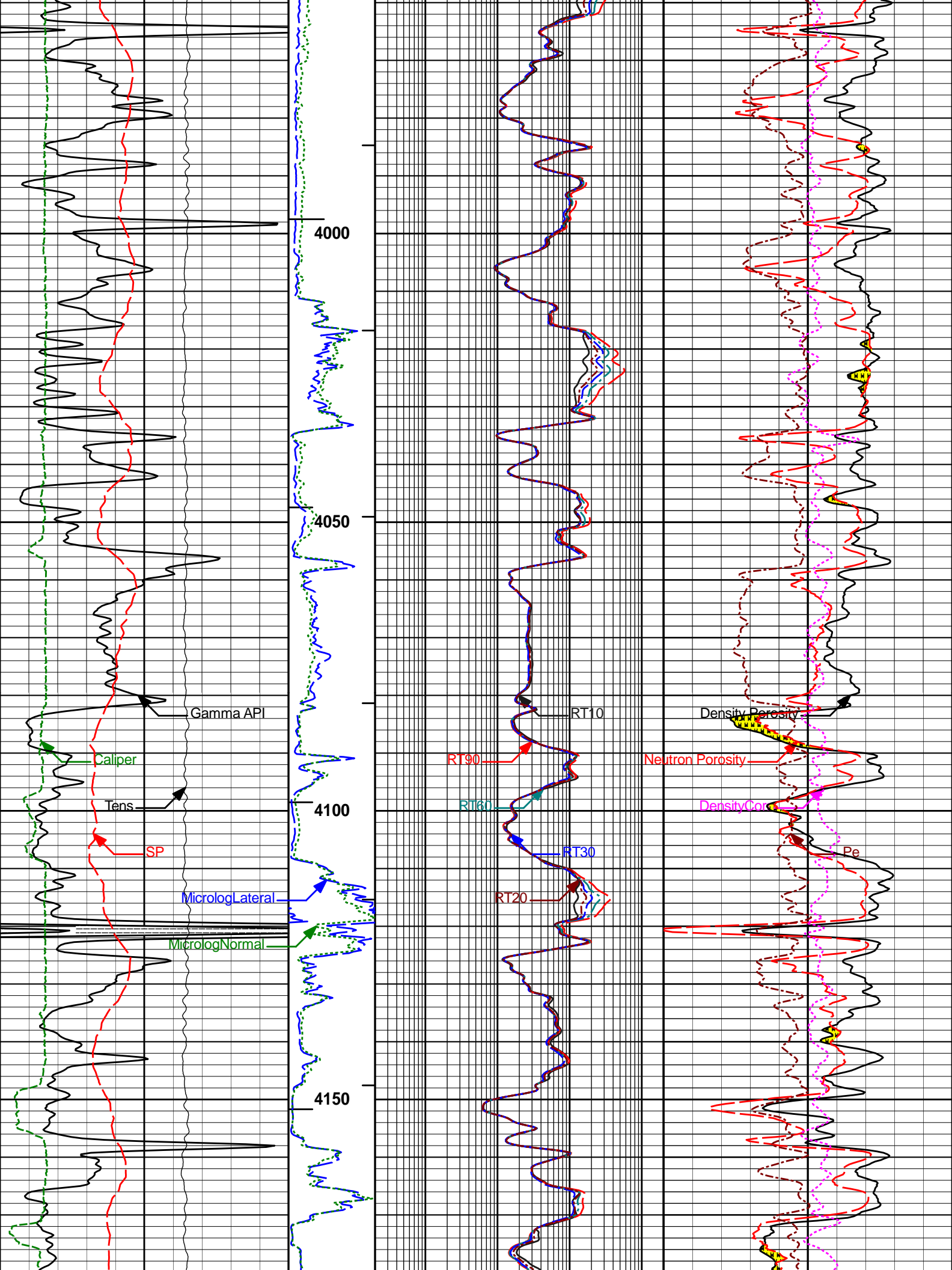


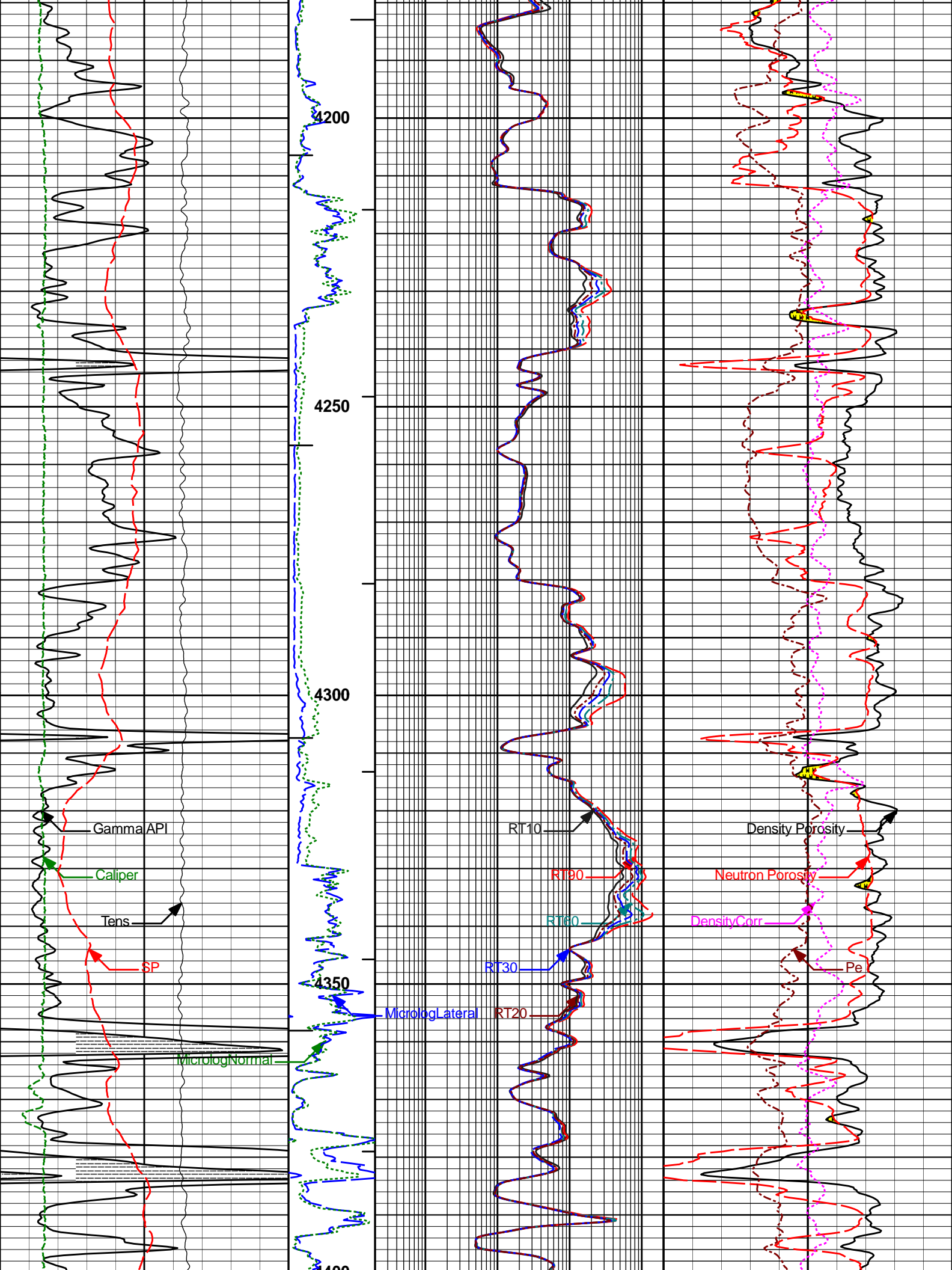


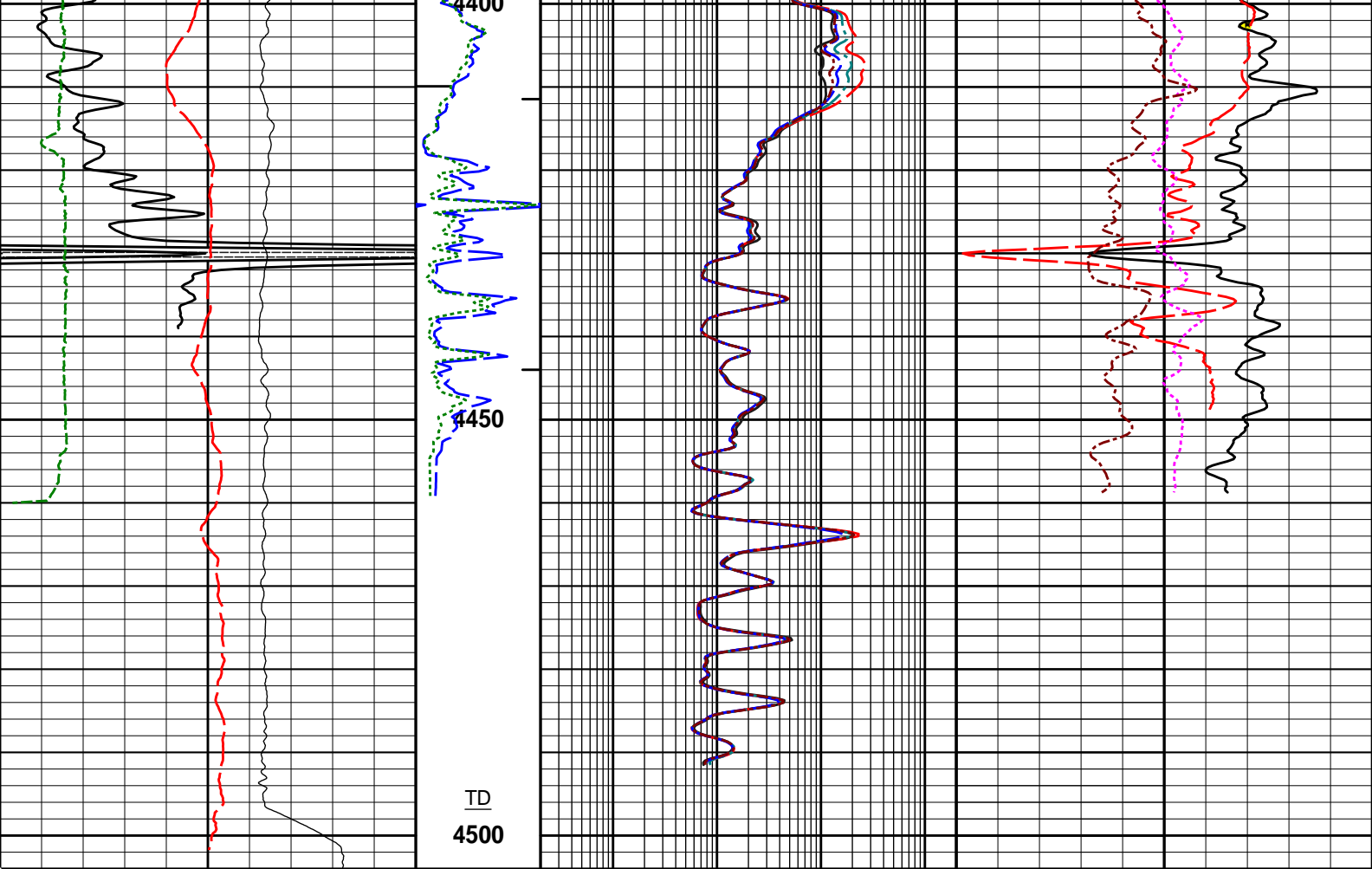












10K	Tens	0	1 : 240	0.2	RT10	2K	-0.25	DensityCorr	0.25
	pounds				ohmm			gram per cc	
-100	SP	100	Microlog Lateral	0.2	RT20	2K	0	Pe	10
	millivolts		ohmm		ohmm			barns/electron	
0	Gamma API	200	Microlog Normal	0.2	RT30	2K	30	Density Porosity	-10
	api		ohmm		ohmm			percent	
6	Caliper	16	BHVT	0.2	RT60	2K	30	Neutron Porosity	-10
	inches				ohmm			percent	
			AHVT	0.2	RT90	2K			
					ohmm				

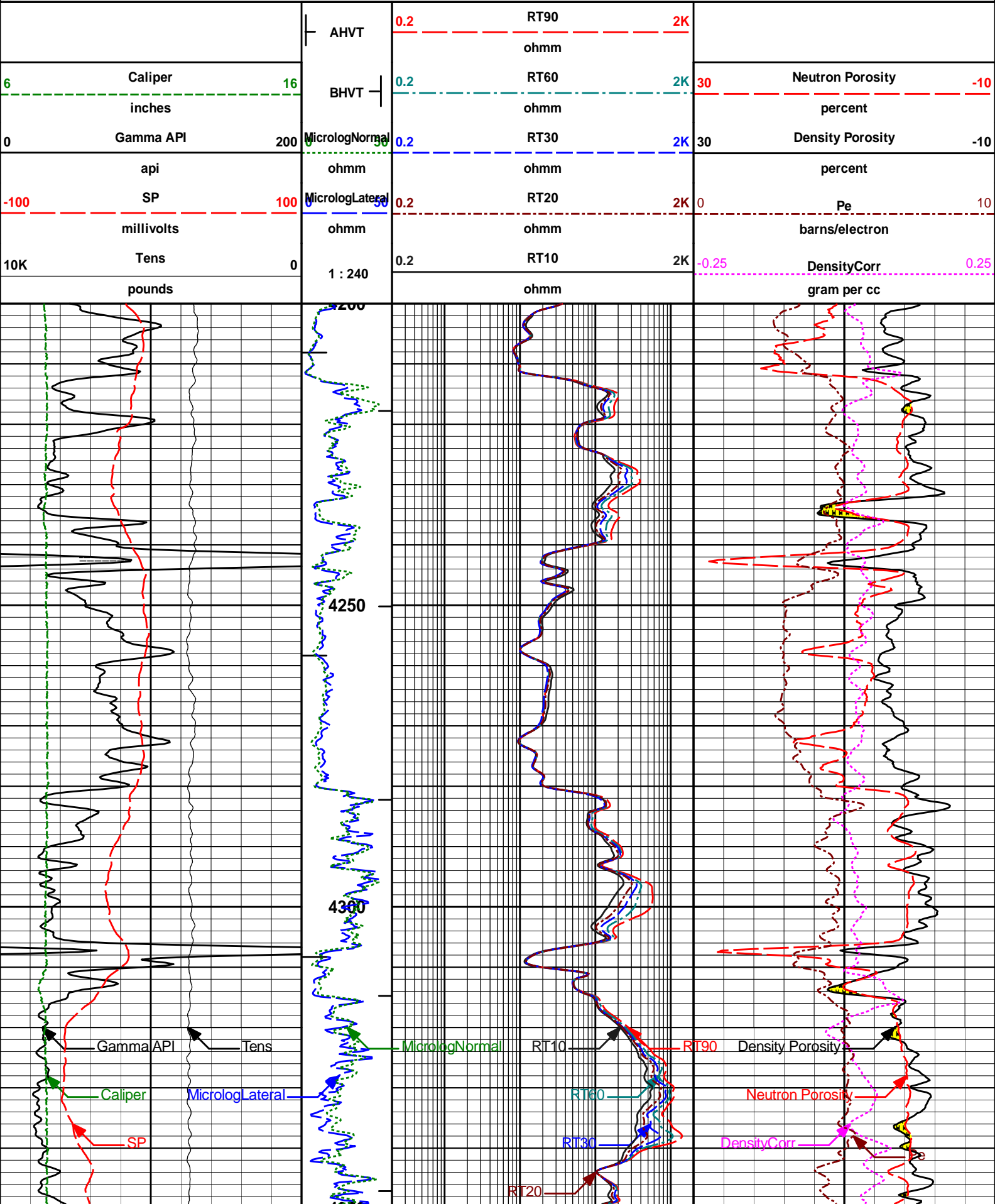
HALLIBURTON Plot Time: 22-Mar-15 12:57:41
 Plot Range: 75 ft to 4504 ft
 Data: TRESHOMBRES1_22\Well Based\^\
 Plot File: \COMP\MAIN

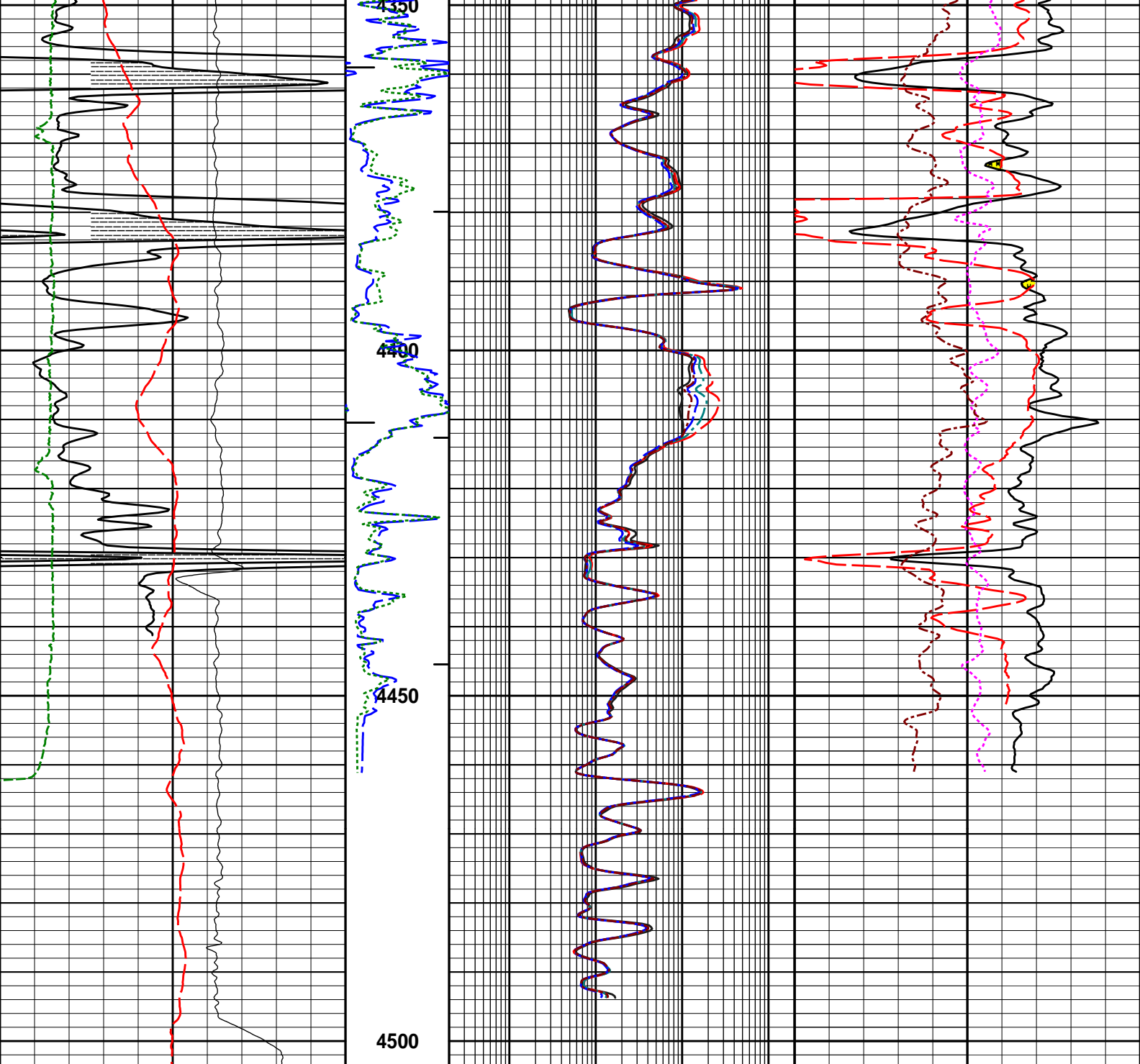
MAIN PASS 5" = 100'
 LIMESTONE MATRIX

HALLIBURTON Plot Time: 22-Mar-15 12:57:42
 Plot Range: 4200 ft to 4503.83 ft
 Data: TRESHOMBRES1_22\Well Based\REPEAT\
 Plot File: \COMP\REPEAT

REPEAT PASS 5" = 100'

LIMESTONE MATRIX





10K	Tens	0	1 : 240	0.2	RT10	2K	-0.25	Density Corr	0.25
	pounds				ohmm			gram per cc	
-100	SP	100	Microlog Lateral	0.2	RT20	2K	0	Pe	10
	millivolts		ohmm		ohmm			barns/electron	
0	Gamma API	200	Microlog Normal	0.2	RT30	2K	30	Density Porosity	-10
	api		ohmm		ohmm			percent	
6	Caliper	16	BHVT	0.2	RT60	2K	30	Neutron Porosity	-10
	inches				ohmm			percent	
			AHVT	0.2	RT90	2K			
					ohmm				

HALLIBURTON

Plot Time: 22-Mar-15 12:57:44
 Plot Range: 4200 ft to 4503.83 ft
 Data: TRESHOMBRES1_22\Well Based\REPEAT\
 Plot File: \\COMP\REPEAT

REPEAT PASS 5" = 100'

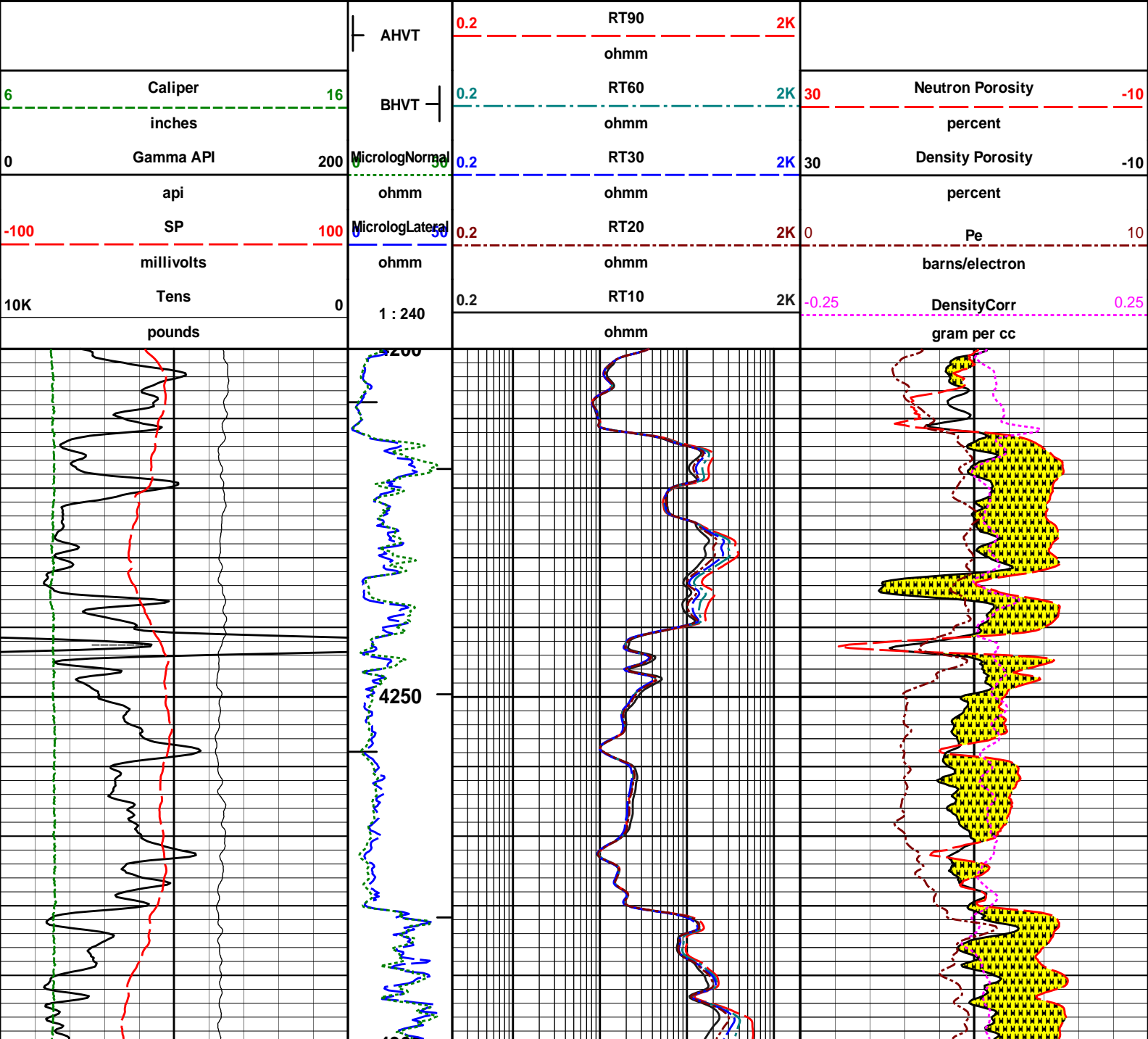
LIMESTONE MATRIX

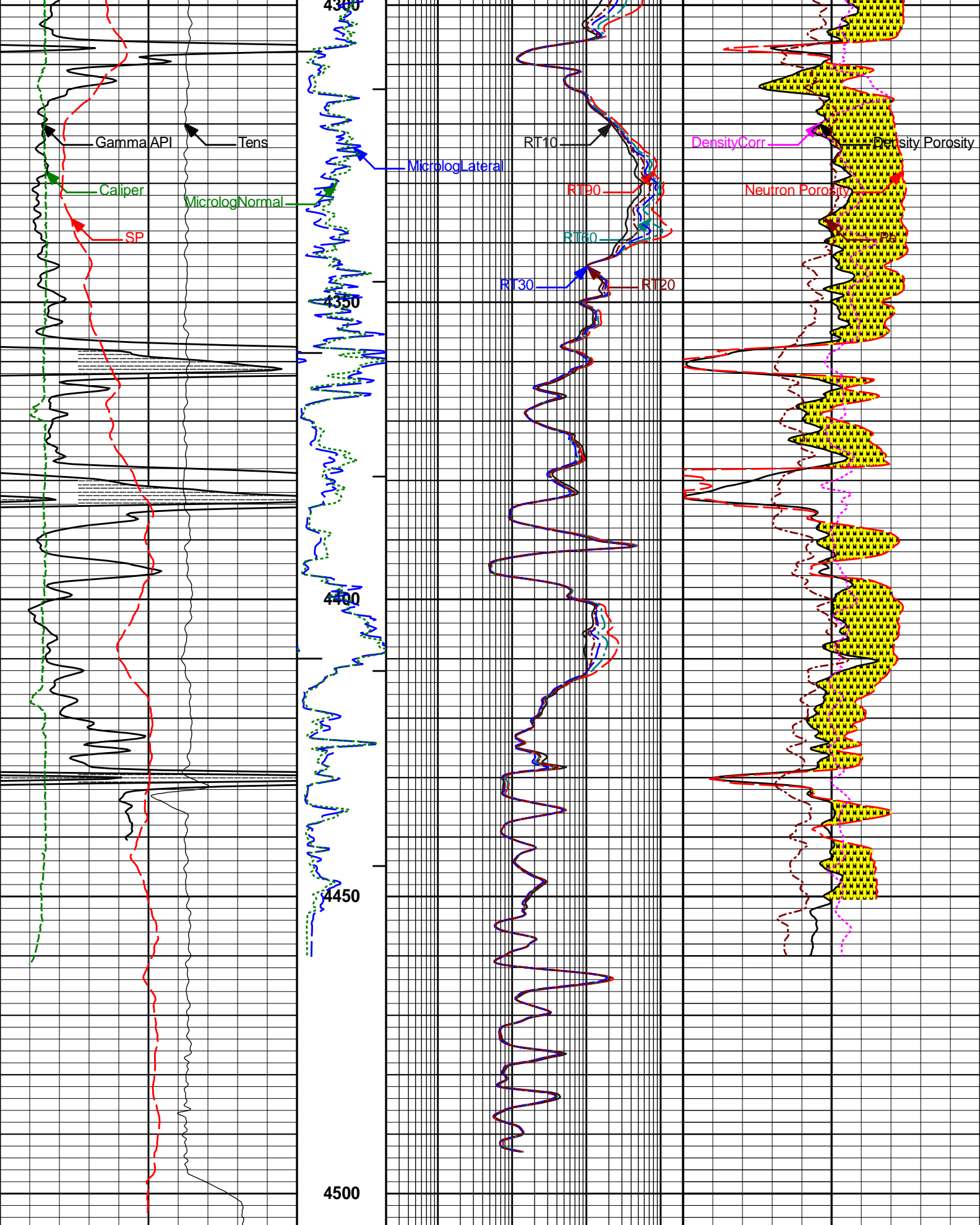
HALLIBURTON

Plot Time: 22-Mar-15 12:57:44
Plot Range: 4200 ft to 4505.83 ft
Data: TRESHOMBRES1_22\Well Based\DOLO_REPEAT\
Plot File: \COMP\REPEAT

REPEAT PASS 5" = 100'

DOLOMITE MATRIX





10K	Tens	0	0.2	RT10	2K	-0.25	DensityCorr	0.25
	pounds			ohmm			gram per cc	
100	SP	100	MicrologLateral	RT20	2K			

0	millivolts	ohmm	ohmm	barns/electron
0	Gamma API	MicrologNormal	RT30	Density Porosity
6	api	ohmm	ohmm	percent
	Caliper	BHVT	RT60	Neutron Porosity
	inches		ohmm	percent
		AHVT	RT90	
			ohmm	

HALLIBURTON

Plot Time: 22-Mar-15 12:57:46
Plot Range: 4200 ft to 4505.83 ft
Data: TRESHOMBRES1_22\Well Based\DOLO_REPEAT\
Plot File: \\COMP\REPEAT

REPEAT PASS 5" = 100'

DOLOMITE MATRIX

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:	GTET - 11958949	Reference Calibration Date:	04-Feb-15 14:17:19
Engineer:	P. DIMPFL	Calibration Date:	22-Mar-15 09:28:34
Software Version:	WL INSITE R4.6.0 (Build 4)	Calibration Version:	1

Calibrator Source S/N: MP051807-04
Calibrator API Reference:239.00 api
Equivalent Calibrator API Reference:243.2 api

Measurement	Measured	Calibrated	Units
Background	42.1	43.9	api
Background + Calibrator	275.6	287.1	api
Calibrator	233.5	243.2	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name:	GTET - 11958949	Reference Calibration Date:	22-Mar-15 09:28:34
Engineer:	P. DIMPFL	Calibration Date:	22-Mar-15 09:31:15
Software Version:	WL INSITE R4.6.0 (Build 4)	Calibration Version:	1

Calibrator Source S/N: MP051807-04
Calibrator API Reference:239.00 api
Equivalent Calibrator API Reference:243.2 api

Field Verification	Shop	Field	Units
Background	43.9	44.4	api
Background + Calibrator	287.1	290.0	api
Calibrator	243.2	245.7	api

Shop	Field	Difference	Tolerance
243.2	245.7	-2.5	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name:	DSNT - 10993888	Reference Calibration Date:	29-Jan-15 10:21:15
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Engineer: B. RIDDEL

Software Version: WL INSITE R4.6.0 (Build 4)

Calibration Date: 05-Mar-15 14:06:08

Calibration Version: 1

Logging Source S/N: DSN-388

Tank Serial Number: GJ WATER TANK

Reference value assigned to Tank: 52.750

Snow Block S/N: GJ SNOW BLOCK

Calibration Tank Water Temperature: 66 degF

Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS

Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.993	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):	0.2157	0.2169	0.0013	+/- 0.0020
Calibrated Ratio:	9.89	9.93	0.043	+/- 0.050

VERIFIER

Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0691	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 - 10993888

Engineer: P. DIMPFL

Software Version: WL INSITE R4.6.0 (Build 4)

Reference Calibration Date: 05-Mar-15 14:06:08

Calibration Date: 22-Mar-15 09:34:21

Calibration Version: 1

Logging Source S/N: DSN-388

Snow Block S/N: GJ SNOW BLOCK

NEUTRON FIELD-CHECK SUMMARY

	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0691	0.0709	0.0019	+/- 0.0150

PASS/FAIL SUMMARY

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

DENSITY CALIPER SHOP CALIBRATION

Tool Name: SDLT - 10951300

Engineer: B. RIDDEL

Software Version: WL INSITE R4.2.0 (Build 2)

Host Tool Name: DSNT - 10993888

Reference Calibration Date: 19-Feb-15 10:11:47

Calibration Date: 19-Feb-15 10:15:26

Calibration Version: 1

CALIBRATION COEFFICIENTS

Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-3445.21	-3550.63	-7000.00 - -1000.00
Pad Gain	0.0003644	0.0003685	0.000200 - 0.000600
Arm Offset	-1416.13	-1695.85	-5000.00 - 3000.00
Arm Gain	0.0004667	0.0005038	0.000300 - 0.000700
Arm Power	-0.000001974	-0.000004478	-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)	2.02	2.00	-0.02	+/- 0.20
Medium Ring (in)	3.75	3.75	0.00	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.55	6.50	-0.05	+/- 0.20
Medium Ring (in)	8.21	8.25	0.04	+/- 0.20
Large Ring (in)	15.00	15.00	0.00	+/- 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 - 10951300	Reference Calibration Date:	19-Feb-15 10:15:26
Engineer:	P. DIMPFL	Calibration Date:	22-Mar-15 09:31:28
Software Version:	WL INSITE R4.6.0 (Build 4)	Calibration Version:	1

MEASURED CALIPER VALUES				
Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.71	-0.04	+/- 0.10
Ring Diameter	8.25	8.17	-0.08	+/- 0.15

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

SPECTRAL DENSITY SHOP CALIBRATION

Tool Name:	SDLT Pad - 10865876	Reference Calibration Date:	16-Feb-15 12:04:38
Engineer:	B. RIDDEL	Calibration Date:	05-Mar-15 09:54:34
Software Version:	WL INSITE R4.6.0 (Build 4)	Calibration Version:	1

Logging Source S/N: 5153 GW			
Aluminum Block S/N: GJ ALUMINUM BLOCK	Density: 2.608g/cc	Pe: 3.230	
Magnesium Block S/N: GJ MAG BLOCK	Density: 1.681g/cc	Pe: 2.600	

DENSITY CALIBRATION SUMMARY			
Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0255	1.0249	0.90 - 1.10
Near Dens Gain	1.0142	1.0101	0.90 - 1.10
Near Peak Gain	1.0006	1.0022	0.90 - 1.10

Near Peak Gain	1.0000	1.0022	0.90 - 1.10
Near Lith Gain	0.9771	0.9813	0.90 - 1.10
Far Bar Gain	1.0131	1.0118	0.90 - 1.10
Far Dens Gain	1.0010	1.0016	0.90 - 1.10
Far Peak Gain	0.9950	0.9932	0.90 - 1.10
Far Lith Gain	0.9729	0.9727	0.90 - 1.10
Near Bar Offset	-0.0252	-0.0232	NONE
Near Dens Offset	0.0817	0.1143	NONE
Near Peak Offset	0.1903	0.1710	NONE
Near Lith Offset	0.3704	0.3293	NONE
Far Bar Offset	0.0212	0.0272	NONE
Far Dens Offset	0.1081	0.0978	NONE
Far Peak Offset	0.1359	0.1479	NONE
Far Lith Offset	0.2750	0.2725	NONE
Near Bar Background	857.39	857.08	700 - 1450
Near Dens Background	285.49	286.70	230 - 480
Near Peak Background	128.01	127.29	100 - 210
Near Lith Background	155.13	154.92	125 - 260
Far Bar Background	529.31	526.12	450 - 900
Far Dens Background	206.13	204.04	175 - 345
Far Peak Background	80.69	80.77	70 - 140
Far Lith Background	86.11	85.27	75 - 145

CALIBRATION BLOCK SUMMARY				
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.681	1.681	-0.000	+/- 0.015
Pe	2.536	2.558	0.022	+/- 0.150
ALUMINUM				
Density (g/cc)	2.609	2.608	-0.001	+/- 0.01500
Pe	3.157	3.179	0.022	+/- 0.150

TOOL SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	-0.0018	+/- 0.0110	0.0000	+/- 0.0140
Magnesium Block	-0.0005	+/- 0.0110	-0.0021	+/- 0.0140
Aluminum Block	-0.0011	+/- 0.0110	0.0013	+/- 0.0140
Resolution	8.96	6.00 - 11.50	9.64	6.00 - 11.50
Internal Verifier(B+D+P+L)	1426	1200 - 2700	896	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 - 10865876				Reference Calibration Date:		05-Mar-15 09:54:34	
Engineer:		P. DIMPFL				Calibration Date:		22-Mar-15 09:28:59	
Software Version:		WL INSITE R4.6.0 (Build 4)				Calibration Version:		1	
Pad Temperature: 45.8 degF									
DENSITY FIELD CALIBRATION SUMMARY									
Measurement		Shop		Field		Change		Control Limit +/-	
Near (B+D+P+L) cps		1425.983		1417.139		-8.844		15.241	
Far (B+D+P+L) cps		896.206		893.990		-2.216		16.290	
Near Resolution		8.96		9.19		0.230		0.50	
Far Resolution		9.64		9.70		0.060		1.00	
PASS/FAIL SUMMARY									
Bkg Quality Check:						Passed			
Bkg Resolution Check:						Passed			
Bkg Verification Check:						Passed			

MICRO LOG SHOP CALIBRATION									
Tool Name:		Microlog Pad - 10951300				Reference Calibration Date:		17-Jan-15 11:47:55	
Engineer:		B. RIDDEL				Calibration Date:		05-Mar-15 11:19:23	
Software Version:		WL INSITE R4.6.0 (Build 4)				Calibration Version:		1	
Host Tool Name:		DSNT - 10993888							

CALIBRATION COEFFICIENT SUMMARY									
Measurement	Micro Log Normal		Micro Log Lateral		Units				
	Measured	Calibrated	Measured	Calibrated					
Tool Zero	-0.04	-0.04	0.01	0.01	ohmm				
Calibration Point #1	0.00	0.00	-0.00	0.00	ohmm				
Calibration Point #2	19.70	20.00	19.72	20.00	ohmm				
Internal Reference	19.91	20.21	19.97	20.25	ohmm				
Measurement	Micro Log Normal Tool Value		Micro Log Lateral Tool Value		Units				
Tool Zero	6.11		6.17		V				
Calibration Point #1	17.37		2.30		V				
Calibration Point #2	5224.88		6862.02		V				
Internal Reference	5280.52		6946.90		V				


ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION									
Tool Name:		ACRt Sonde - 11585797				Reference Calibration Date:		27-Jan-15 15:50:02	
Engineer:		P. DIMPFL				Calibration Date:		27-Jan-15 16:03:38	
Software Version:		WL INSITE R4.2.0 (Build 2)				Calibration Version:		1	
Host Tool Name:		ACRt Instrument - 11585787							

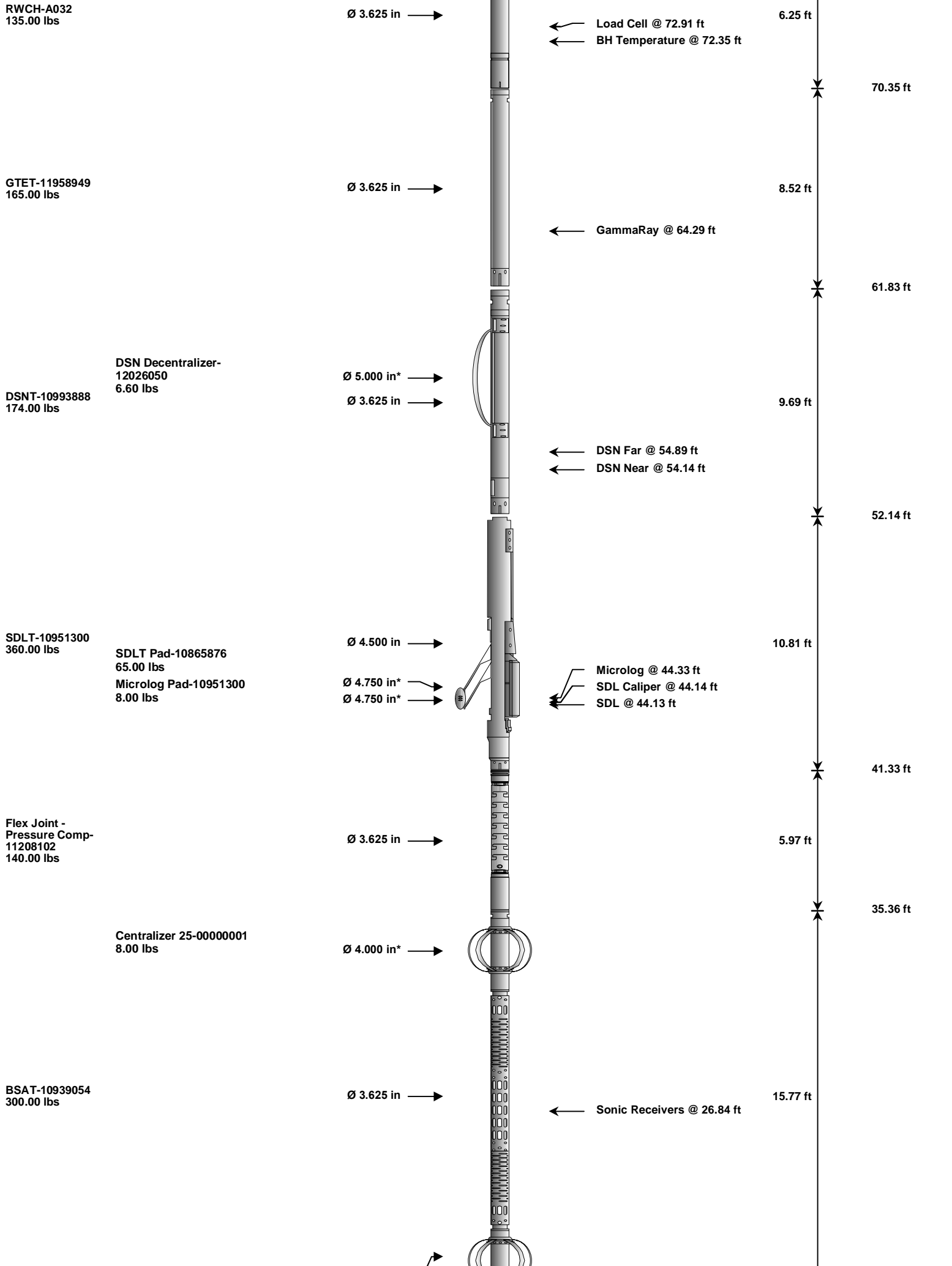
TYPICAL GAIN RANGE									
Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.0234	1.05	0.95	1.0213	1.05	0.95	1.0201	1.05
A2 (50")	0.95	1.0120	1.05	0.95	1.0125	1.05	0.95	1.0133	1.05
A3 (29")	0.95	1.0058	1.05	0.95	1.0054	1.05	0.95	1.0047	1.05
A4 (17")	0.95	1.0036	1.05	0.95	1.0005	1.05	0.95	1.0023	1.05

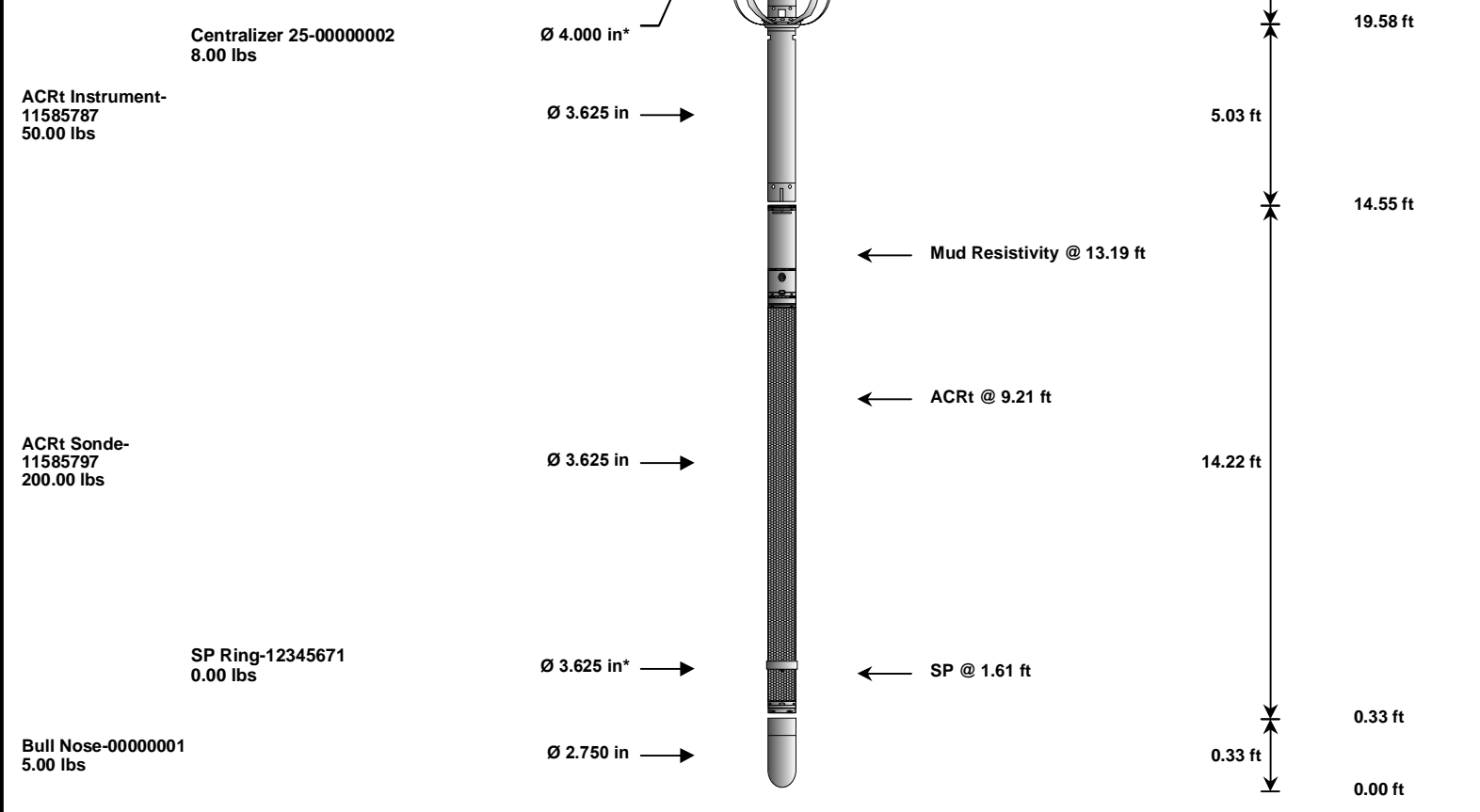
A5 (10")	N/A	N/A	N/A	0.95	1.0075	1.05	0.95	1.0083	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9861	1.05	0.95	0.9861	1.05
SONDE OFFSET									
Subarray	R12KHz			R36KHz			R72KHz		
	(mmho/m)			(mmho/m)			(mmho/m)		
A1 (80")	-1.400			-4.436			-5.489		
A2 (50")	-1.992			-3.255			-4.694		
A3 (29")	-15.645			-4.528			-3.257		
A4 (17")	-119.763			-35.638			-27.444		
A5 (10")	N/A			-97.013			-50.120		
A6 (6")	N/A			312.823			158.068		
TRANSMITTER CURRENT GAIN					R-MUD VERIFICATION				
Signal	Lower	R	Upper	Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)		
12K	0.6	0.85	1.3	Mud Cell	0.95	1.00	1.05		
36K	1.0	1.83	2.0						
72K	1.0	1.10	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-11958949						
Gamma Ray Calibrator	243.2	245.7	-----	-2.5	+/- 9.00	api
DSNT-10993888						
Snow-Block Porosity	0.0691	0.0709	-----	-0.0018	+/- 0.0150	decp
SDLT-10951300						
Pad Extension	3.75	3.71	-----	0.04	+/-0.10	in
Ring Diameter	8.25	8.17	-----	0.08	+/-0.15	in
SDLT Pad-10865876						
Near(B+D+P+L)	1425.983	1417.139	-----	8.844	+/-15.241	cps
Far(B+D+P+L)	896.206	893.990	-----	2.216	+/-16.290	cps
Microlog Pad-10951300						
MicroLog Normal	20.21	-----	-----	0.00	-----	ohmm
MicroLog Lateral	20.25	-----	-----	0.00	-----	ohmm
ACRt Sonde-11585797						
Mud Cell	1.00	-----	-----	0.00	-----	ohm-m

Data: TRESHOMBRES1 22\0001 QUAD\004 22-Mar-15 11:10 Up @4502.5f										Date: 22-Mar-15 11:51:33									
HALLIBURTON																			
TOOL STRING DIAGRAM REPORT																			

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
						76.60 ft





Mnemonic		Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
RWCH	Releasable Wireline Cable Head	A032		135.00	6.25	70.35	300.00
GTET	Gamma Telemetry Tool	11958949		165.00	8.52	61.83	60.00
DSNT	Dual Spaced Neutron	10993888		174.00	9.69	52.14	60.00
DCNT	DSN Decentralizer	12026050		6.60	5.13	* 55.47	300.00
SDLT	Spectral Density Tool	10951300		360.00	10.81	41.33	60.00
SDLP	Density Insite Pad	10865876		65.00	2.55	* 43.54	60.00
MICP	Microlog Pad	10951300		8.00	1.00	* 43.83	60.00
FLEX	Flex Joint - Pressure Compensated	11208102		140.00	5.97	35.36	300.00
BSAT	Borehole Sonic Array Tool	10939054		300.00	15.77	19.58	60.00
OBCEN	Centralizer - 25 in. Overbody	00000001		8.00	2.08	* 32.62	300.00
ACRt	Array Compensated True Resistivity Instrument Section	11585787		50.00	5.03	14.55	120.00
OBCEN	Centralizer - 25 in. Overbody	00000002		8.00	2.08	* 19.36	300.00
ACRt	Array Compensated True Resistivity Sonde Section	11585797		200.00	14.22	0.33	120.00
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				1,624.60	76.60		
* Not included in Total Length and Length Accumulation.							
Data: TRESHOMBRES1_22\0001 QUAD\004 22-Mar-15 11:10 Up @4502.5f						Date: 22-Mar-15 11:49:52	

COMPANY	BAYHORSE PETROLEUM, LLC		
WELL	TRES HOMBRES 1-22		
FIELD	LEFT HAND		
COUNTY	KIOWA	STATE	CO
HALLIBURTON		DUAL SPACED NEUTRON SPECTRAL DENSITY ARRAY COMPENSATED TRUE RESISTIVITY	